

City of San Diego

CONTRACTOR'S NAME: Kiewit Infrastructure West Co.
ADDRESS: 3555 Farnam Street, Omaha, Nebraska 68131
TELEPHONE NO.: _____ **FAX NO.:** _____
CITY CONTACT: Stephen Samara, Principal Contract Specialist, Email: SSamara@sandiego.gov
Phone No. (619) 533-3619
M. Smoczynski / R. W. Bustamante / M. L. Wenceslao

BIDDING DOCUMENTS



FOR

NORTH CITY WATER RECLAMATION PLANT EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE

BID NO.: K-21-1861-DBB-3
SAP NO. (WBS/IO/CC): B-15142, B-16140, S-17012
CLIENT DEPARTMENT: 2012
COUNCIL DISTRICT: 1
PROJECT TYPE: BO

THIS CONTRACT WILL BE SUBJECT TO THE FOLLOWING:

- PROJECT LABOR AGREEMENT (PLA)
- PHASED-FUNDING
- FEDERAL EQUAL OPPORTUNITY CONTRACTING REQUIREMENTS
- ELIGIBLE FOR JOINT VENTURE PREQUALIFICATION STATUS (see Instructions to Bidders)
- PREVAILING WAGE RATES: STATE FEDERAL
- SKILLED AND TRAINED WORKFORCE
- THIS IS A CASRF AND EPA FUNDED CONTRACT THROUGH THE STATE OF CALIFORNIA AND ENVIRONMENTAL PROTECTION AGENCY AND UNITED STATES ENVIRONMENTAL PROTECTION AGENCY UNDER THE FEDERAL WATER INFRASTRUCTURE FINANCE AND INNOVATION ACT (WIFIA), PROPOSITION 68, PROPOSITION 1 AND BUREAU OF RECLAMATION (BOR).

BID DUE DATE:

2:00 PM

FEBRUARY 10, 2021

CITY OF SAN DIEGO'S ELECTRONIC BIDDING SITE, PLANETBIDS

<http://www.sandiego.gov/cip/bidopps/index.shtml>

ENGINEER OF WORK

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineers:

Mark Elliott
1) Registered Engineer

12/08/2020
Date



DIGITALLY SIGNED: 12/08/2020

Andrea Demich
2) For City Engineer

12/3/2020
Date

Seal:



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REQUIRED DOCUMENTS SCHEDULE DURING BIDDING AND AWARDING

The Bidder's attention is directed to the City's Municipal Code §22.0807(e), (3)-(5) for important information regarding grounds for debarment for failure to submit required documentation.

The specified Equal Opportunity Contracting Program (EOCP) forms are available for download from the City's web site at:

<http://www.sandiego.gov/eoc/forms/index.shtml>

FEDERAL DOCUMENTS SUBMITTAL REQUIREMENTS

ITEM	DOCUMENT TO BE SUBMITTED	WHEN DUE	FROM
1.	Bid Bond (PDF via PlanetBids)	At Time of Bid	ALL BIDDERS
2.	Contractors Certification of Pending Actions	At Time of Bid	ALL BIDDERS
3.	Mandatory Disclosure of Business Interests	At Time of Bid	ALL BIDDERS
4.	Debarment and Suspension Certification for Prime Contractors	At Time of Bid	ALL BIDDERS
5.	Debarment and Suspension Certification for Subcontractors, Suppliers & Mfgs	At Time of Bid	ALL BIDDERS
6.	Disclosure of Lobbying Activities	At Time of Bid	ALL BIDDERS
7.	Form 4500-3: DBE Subcontractor Performance Form	At Time of Bid	ALL BIDDERS
8.	Form 4500-4: DBE Subcontractor Utilization Form	At Time of Bid	ALL BIDDERS
9.	Commitment to Comply with Skilled and Trained Workforce Certification Form	At Time of Bid. See Notice Inviting Bids, Section 8	ALL BIDDERS
10.	Bid Bond (Original)	By 5PM, 3 Working Days After Bid Opening	ALL BIDDERS
11.	Federal Good Faith Documentation	By 5PM, 4 Working Days After Bid Opening	ALL BIDDERS
12.	Form AA61 – List of Work Made Available	By 5PM, 4 Working Days after Bid Opening With Good Faith Effort Documentation	ALL BIDDERS
13.	Form AA62 – Summary of Bids Received	By 5PM, 4 Working Days after Bid Opening With Good Faith Effort Documentation	ALL BIDDERS

ITEM	DOCUMENT TO BE SUBMITTED	WHEN DUE	FROM
14.	Form AA63 – Good Faith Effort List of Subcontractors Solicited	By 5PM, 4 Working Days after Bid Opening With Good Faith Effort Documentation	ALL BIDDERS
15.	Escrow Bid Document. See Attachment H	By 5PM, 4 Working Days after Bid Opening	ALL BIDDERS
16.	Phase Funding Schedule Agreement	Within 10 Working Days of receipt by the bidder of the Notice of Intent to Award	AWARDED BIDDER
17.	If the Contractor is a Joint Venture: <ul style="list-style-type: none"> • Joint Venture Agreement • Joint Venture License 	Within 10 Working Days of receipt By bidder of contract forms	AWARDED BIDDER
18.	OCIP Credit Worksheet. See Notice Inviting Bids, Section 17.	Within 10 Working Days of receipt by bidder of contract forms and Notice of Intent to Award	AWARDED BIDDER
19.	Payment & Performance Bond: Certificates of Insurance & Endorsements	Within 10 Working Days of receipt by bidder of contract forms and Notice of Intent to Award	AWARDED BIDDER
20.	Signed Contract Agreement Page	Within 10 Working Days of receipt by bidder of Contract Agreement	AWARDED BIDDER
21.	PLA Forms. See Attachment I	Within 10 Working Days of Notice of Intent to Award	AWARDED BIDDER
22.	OCIP Enrollment Forms. See Attachment E, Section 5-4.4, "Information to Be Provided by Successful Bidder After Contract Award".	Within 15 Working Days of Notice of Intent to Award	AWARDED BIDDER
23.	Skilled and Trained Workforce Certification Forms	Monthly. See Notice Inviting Bids, Section 8	AWARDED BIDDER
24.	Form UR-334: California State Revolving Funds (CASRF)	Annually. See Attachment D requirements.	AWARDED BIDDER
25.	Form 4500-2: DBE Subcontractor Participation Form	See Attachment D requirements.	AWARDED BIDDER

NOTICE INVITING BIDS

1. **SUMMARY OF WORK:** This is the City of San Diego's (City) solicitation process to acquire Construction services for **North City Water Reclamation Plant Expansion and NCPWF Influent Pump Station and Pipeline**. For additional information refer to Attachment A.
2. **FULL AND OPEN COMPETITION:** This solicitation is subject to full and open competition and may be bid by Contractors on the City's approved Prequalified Contractors List. For information regarding the Contractors Prequalified list visit the City's web site: <http://www.sandiego.gov>.
3. **ESTIMATED CONSTRUCTION COST:** The City's estimated construction cost for this project is **\$208,660,000**.
4. **BID DUE DATE AND TIME ARE: FEBRUARY 10, 2021 at 2:00 PM**
5. **PREVAILING WAGE RATES APPLY TO THIS CONTRACT:** Refer to Attachment D.
6. **LICENSE REQUIREMENT:** To be eligible for award of this contract, Prime contractor must possess the following licensing classification: **A**
 - 6.1. **SPECIALTY LICENSE REQUIREMENTS:** All plumbing or pipefitting work that falls within the classification of a C-36 License shall be performed under a contract or subcontract with a contractor with a C-36 License. All electrical work that falls within the classification of a C-10 License shall be performed under a contract or subcontract with a contractor with a C-10 License.
7. **ESCROW BID DOCUMENT APPLY TO THIS CONTRACT:** Refer to Attachment H.
8. **SKILLED AND TRAINED WORKFORCE LABOR REQUIREMENTS:**
 - 8.1. The Contractor and its subcontractors at every tier shall use a skilled and trained workforce to perform all work on the project or contract that falls within an apprenticeable occupation in the building and construction trades, as set forth in California Public Contract Code section 2601, including the exceptions in sections 2601(d)(5) and 2601 (d)(6). Contractor shall provide to the City a report demonstrating compliance with this section on a monthly basis, to be included with monthly pay requests. The City may withhold progress payments or retention in accordance with California Public Contract Code section 2602(b) if the Contractor fails to provide the monthly report required by this section, provides a report that is incomplete, or provides a report that does not demonstrate compliance with this section. Payment may be withheld until the Contractor provides a plan to achieve substantial compliance with this section prior to completion of the contract that is acceptable to the City, with respect to the relevant apprenticeable occupation.

This section references provisions of the California Public Contract Code for convenience only. The City is not electing to incorporate other provisions of Chapter 2.9 of the California Public Contract Code not referenced herein, including but not limited to provisions for State enforcement. Instead, failure to comply with this section is considered a material breach of this contract which could affect the Contractor's ability to perform future work for the City pursuant to Chapter 2, Article 2, Division 8 of the San Diego Municipal Code regarding debarment.

8.2. Submittal Requirements

Contracts must submit proof of a Commitment to Comply with Skilled and Trained Workforce Requirements at bid due date. Contractor and its subcontractors at every tier will use a skilled and trained workforce to perform all work on the project or a contract that falls within an apprenticeship occupation in the building and construction trades in accordance with Chapter 2.9 (commencing with Section 2600) of Part 1 of Division 2 of the Public Contract Code. City will monitor Contractor's compliance with these requirements and Contractor, on behalf of itself and its subcontractors at every tier, shall provide on a monthly basis a Skilled and Trained Workforce Certification Form and Skilled and Trained Workforce Monthly Compliance Report demonstrating compliance. If the monthly Skilled and Trained Workforce Certification Form and Monthly Compliance Report are not provided within 30 days or if Contractor provides a report that is incomplete, City shall withhold further payments until a complete report is provided. If the Skilled and Trained Workforce Certification form does not establish compliance with Section 132354.7, City shall withhold further payments until Contractor provides a plan to achieve substantial compliance with the skilled and trained workforce requirements, with respect to the relevant apprenticeable occupation, prior to the completion of the project. Any withholding will be released for payment on the monthly estimate for partial payments next following the date that all the satisfactory compliance of the requirements for which the retention was made are submitted.

9. VETERANS OUTREACH:

Military veterans bring unique skills to City projects due to their mission-oriented training and experience, and dedication to the job. The City desires to facilitate the entry into the building and construction trades for veterans interested in careers in the industry. Within (30) days after notice that it is the apparent low bidder. Contractor shall contact "Helmets to Hardhats" or "UA Veterans in Piping" on behalf of itself and its subcontractors, for potential job referrals and employment of veterans on the project. Contractor may contact other veterans programs in its discretion, but if neither of the above referenced programs are contacted, the Contractor must receive prior written approval from the City that it is an equivalent veterans program. Contacting multiple veterans programs is highly encouraged, but not required. Within ninety (90) days after issuance of a Notice to Proceed for construction of the project. Contractor shall provide the City with a written report detailing the veterans programs contacted, opportunities offered by the Contractor and its subcontractors, applications received and for what construction trades, and how many veterans were hired through the programs. Hiring veterans to work on the project is not mandatory, but information received from the Contractor may be used by the City in the future to develop a veteran's outreach program for City contracting.

10. BUSINESS COOPERATION TAX PROGRAM:

You must exercise your right to obtain a California State of Board of Equalization (BOE) sub-permit for the jobsite and allocate all eligible Bradley-Burns Uniform Local Sales and Use Tax (Use Tax) to the City. The Contractor and Subcontractors who meet the minimum California Department of Tax and Fee Administration (CDTFA) contract threshold (currently \$5M) and who are purchasing materials and/or fixtures over \$100,000 in value, must apply for a jobsite sub-permit (job-site specific sellers permit), prior to NTP. You will ensure that all eligible subcontractors will exercise their right to obtain this BOE sub-submit and allocate all eligible Use

Tax to the City. The City will not issue a notice to proceed unless you and your eligible subcontractors have obtained this sub-permit from the BOE. If there is added work at a later date that meets this criteria the same process shall apply prior to purchasing material and/or fixtures for added work. And it will also be part of the close-out process (permit closeout). More information on obtaining this permit can be found by contacting the local BOE office.

11. PROJECT LABOR AGREEMENT (PLA):

As a condition of final contract award, the Awarded Bidder must sign and execute a Letter of Assent to the Project Labor Agreement that the City has negotiated which is listed as "Attachment A" to the Project Labor Agreement. A copy of the Project Labor Agreement is attached as **Attachment I** to this Contract. See also Attachment E SSP Section 5-3.6, "Project Labor Agreement (PLA)".

12. SUBCONTRACTING PARTICIPATION PERCENTAGES:

12.1. The City affirms that in any contract entered into pursuant to this advertisement, DBE firms will be afforded full opportunity to submit Bids in response to this invitation.

12.2. This Federally assisted project includes subcontracting participation percentages for DBE participation. DBE goal commitments and Good Faith Efforts (GFE) shall be made prior to bidding. DBE commitments and GFE made after the Bid opening will not be considered for the Award of Contract.

12.3. This project is subject to the federal equal opportunity regulations and the following requirements. The City reserves the right to audit the Contractor's compliance with the federal requirements set forth below.

12.4. Following are federally subcontracting participation percentages for this contract. For the purpose of achieving the subcontractor participation percentage, Additive or Deductive, and Type II Allowance Bid Items will not be included in the calculation.

12.5. Environmental Protection Agency (EPA) - In accordance with EPA's Program for Utilization of Small, Minority Disadvantaged and Women Business Enterprises in procurement under Federal assistance programs, the Contractor agrees to the applicable "fair share" objectives negotiated with EPA as follows:

12.6. California State Water Resources Control Board - Clean Water State Revolving Fund (CWSRF):

		MBE*	WBE*
1.	Construction	2%	1%
2.	Supplies	1%	1%
3.	Services	1%	1%
4.	Equipment (combined in above)	1%	1%

Note: MBEs and WBEs must be certified by EPA, SBA, DOT or by state, local, Tribal, or private entities whose certification criteria match EPAs in order to be counted toward MBE/WBE accomplishments. MBEs and WBEs are a part of the larger universe of DBEs.

12.7. If the Bidder fails any of the following conditions, the Bid **SHALL be declared non-responsive:**

1. Submission of GFE documentation, as specified in Attachment D.
 - a) Submit Good Faith Effort (GFE) documentation, saved in searchable Portable Document Format (PDF) and stored on a Universal Serial Bus (USB) Type-A, Compact Disc (CD) or Digital Video Disc (DVD), demonstrating the Bidder made a good faith effort to outreach to and include DBE Subcontractors required in this document by 5 PM, 4 Working Days after the Bid opening.
 - b) Due to circumstances related to Covid-19, until further notice, all submittals in searchable PDF shall be submitted electronically within the prescribed time identified in the contract documents via link provided by the Contract Specialist to all bidders.
2. Attending one of the Pre-Bid Meetings.

13. MANDATORY ONLINE PRE-BID MEETING VIA GOTOMEETING:

Bidders are required to attend a Pre-Bid Meeting. Two mandatory online pre-bid meetings will be held.

The First Meeting will be on: Monday, December 21 at 10:00 AM at GoToMeeting.

Please join the pre-bid meeting from your computer, tablet or smartphone.

<https://global.gotomeeting.com/join/150859117>

You can also dial in using your phone.

United States: +1 (646) 749-3122

Access Code: 150-859-117

The Second meeting will be on: Wednesday, December 23 at 10:00 AM at GoToMeeting.

Please join the pre-bid meeting from your computer, tablet or smartphone.

<https://global.gotomeeting.com/join/415325533>

You can also dial in using your phone.

United States: +1 (646) 749-3122

Access Code: 415-325-533

New to GoToMeeting? Get the app now and be ready when your first meeting starts:

<https://global.gotomeeting.com/install/415325533>

Please Note: You will need to join the meeting with a computer, tablet or smartphone with the

GoToMeetings App in place in order to sign in via the Chat feature as attendance at the meeting will be evidenced by the Chat sign-in. The Chat feature will also be used for attendees to ask any questions.

The purpose of the meetings is to discuss the scope of the project, submittal requirements, the pre-qualification process, the Project Labor Agreement requirements, OCIP requirements, and Equal Opportunity Contracting Program requirements and reporting procedures. **Failure to attend ONE of the Mandatory Pre-Bid Meeting may result in the Bid being deemed nonresponsive.**

Upon entering the meeting, all attendees must use the chat feature to sign in with the following information: Name of firm, Attendee's name, Phone number, and Email address.

The GoToMeetings will open thirty minutes prior to the start times listed above to allow the attendees the opportunity to sign in by the deadline.

Bidders may not be admitted after the specified start time of the mandatory Pre-Bid Meeting.

14. AWARD PROCESS:

- 14.1.** The Award of this contract is contingent upon the Contractor's compliance with all conditions of Award as stated within these documents and within the Notice of Intent to Award.
- 14.2.** Upon acceptance of bids and determination of the apparent low bidder, the City will prepare the contract documents for execution within approximately 21 days of the date of the bid opening. The City will then award the contract upon receipt of properly signed Contract, bonds, and insurance documents.
- 14.3.** This contract will be deemed executed and effective only upon the signing of the Contract by the Mayor or his designee and approval as to form by the City Attorney's Office.
- 14.4.** The low Bid will be determined by the Base Bid alone.
- 14.5.** Once the low bid has been determined, the City may, at its sole discretion, award the contract for the Base bid alone.

15. SUBMISSION OF QUESTIONS:

- 15.1.** The Director (or Designee) of the Engineering & Capital Projects Department is the officer responsible for opening, examining, and evaluating the competitive Bids submitted to the City for the acquisition, construction and completion of any public improvement except when otherwise set forth in these documents. Any questions related to this solicitation shall be submitted to:

Stephen Samara at ssamara@sandiego.gov

- 15.2.** Questions received less than 14 days prior to the date for opening of Bids may not be considered.
- 15.3.** Questions or clarifications deemed by the City to be material shall be answered via issuance of an addendum and posted to the City's online bidding service.
- 15.4.** Only questions answered by formal written addenda shall be binding. Oral and other interpretations or clarifications shall be without legal effect. It is the Bidder's

responsibility to be informed of any addenda that have been issued and to include all such information in its Bid.

16. **PHASED FUNDING:** For Phased Funding Conditions, see Attachment B.
17. **OWNER CONTROLLED INSURANCE PROGRAM (OCIP):** The City has implemented an Owner Controlled Insurance Program (OCIP) for its Pure Water Projects. In this OCIP, the City furnishes Workers' Compensation, General, Excess, Pollution Liability and Builder's Risk insurance associated with construction of the Work, as detailed in Attachment E, Section 5 - LEGAL RELATIONS AND RESPONSIBILITIES. Bidders, as well as all of their subcontractors, with a subcontract amount of greater than one half of one percent of the Contractors bid amount shall complete OCIP credit worksheets. Bidders shall submit these OCIP credit worksheets, including OCIP credit worksheets obtained from all their subcontractors, within 10 Working Days of receipt by bidder of contract forms and Notice of Intent to Award. **Compliance with OCIP credit worksheet requirements shall be a condition for award.**

INSTRUCTIONS TO BIDDERS

1. PREQUALIFICATION OF CONTRACTORS:

- 1.1. Contractors submitting a Bid must be pre-qualified for the total amount proposed, including all alternate items, prior to the date of submittal. Bids from contractors who have not been pre-qualified as applicable and Bids that exceed the maximum dollar amount at which contractors are pre-qualified may be deemed **non-responsive** and ineligible for award.
- 1.2. The completed application must be submitted online no later than 2 weeks prior to the bid opening.
- 1.3. **Joint Venture Bidders Cumulative Maximum Bidding Capacity:** For projects with an engineer's estimate of \$30,000,000 or greater, Joint Ventures submitting bids may be deemed responsive and eligible for award if the cumulative maximum bidding capacity of the individual Joint Venture entities is equal to or greater than the total amount proposed.
 - 1.3.1. Each of the entities of the Joint Venture must have been previously prequalified at a minimum of \$15,000,000.
 - 1.3.2. Bids submitted with a total amount proposed of less than \$30,000,000 are not eligible for Cumulative Maximum Bidding Capacity prequalification. To be eligible for award in this scenario, the Joint Venture itself or at least one of the Joint Venture entities must have been prequalified for the total amount proposed.
 - 1.3.3. Bids submitted by Joint Ventures with a total amount proposed of \$30,000,000 or greater on a project with an engineer's estimate of less than \$30,000,000 are not eligible for Cumulative Maximum Bidding Capacity prequalification.
 - 1.3.4. The Joint Venture designated as the Apparent Low Bidder shall provide evidence of its corporate existence and furnish good and approved bonds in the name of the Joint Venture within 14 Calendar Days of receipt by the Bidder of a form of contract for execution.
- 1.4. Complete information and links to the on-line prequalification application are available at:
<http://www.sandiego.gov/cip/bidopps/prequalification>
- 1.5. Due to the City's responsibility to protect the confidentiality of the contractors' information, City staff will not be able to provide information regarding contractors' prequalification status over the telephone. Contractors may access real-time information about their prequalification status via their vendor profile on [PlanetBids™](#).

2. **ELECTRONIC FORMAT RECEIPT AND OPENING OF BIDS:** Bids will be received in electronic format (eBids) EXCLUSIVELY at the City of San Diego's electronic bidding (eBidding) site, at: <http://www.sandiego.gov/cip/bidopps/index.shtml> and are due by the date, and time shown on the cover of this solicitation.

- 2.1. **BIDDERS MUST BE PRE-REGISTERED** with the City's bidding system and possess a system-assigned Digital ID in order to submit and electronic bid.
- 2.2. The City's bidding system will automatically track information submitted to the site including IP addresses, browsers being used and the URLs from which information was submitted. In addition, the City's bidding system will keep a history of every login instance including the time of login, and other information about the user's computer configuration such as the operating system, browser type, version, and more. Because of these security features, Contractors who disable their browsers' cookies will not be able to log in and use the City's bidding system.
- 2.3. The City's electronic bidding system is responsible for bid tabulations. Upon the bidder's or proposer's entry of their bid, the system will ensure that all required fields are entered. **The system will not accept a bid for which any required information is missing.** This includes all necessary pricing, subcontractor listing(s) and any other essential documentation and supporting materials and forms requested or contained in these solicitation documents.
- 2.4. **BIDS REMAIN SEALED UNTIL BID DEADLINE.** eBids are transmitted into the City's bidding system via hypertext transfer protocol secure (https) mechanism using SSL 128-256 bit security certificates issued from Verisign/Thawte which encrypts data being transferred from client to server. Bids submitted prior to the "Bid Due Date and Time" are not available for review by anyone other than the submitter who has until the "Bid Due Date and Time" to change, rescind or retrieve its proposal should it desire to do so.
- 2.5. **BIDS MUST BE SUBMITTED BY BID DUE DATE AND TIME.** Once the bid deadline is reached, no further submissions are accepted into the system. Once the Bid Due Date and Time has lapsed, bidders, proposers, the general public, and City staff are able to immediately see the results on line. City staff may then begin reviewing the submissions for responsiveness, EOCP compliance and other issues. The City may require any Bidder to furnish statement of experience, financial responsibility, technical ability, equipment, and references.
- 2.6. **RECAPITULATION OF THE WORK.** Bids shall not contain any recapitulation of the Work. Conditional Bids may be rejected as being non-responsive. Alternative proposals will not be considered unless called for.
- 2.7. **BIDS MAY BE WITHDRAWN** by the Bidder only up to the bid due date and time.
 - 2.7.1. Important Note: Submission of the electronic bid into the system may not be instantaneous. Due to the speed and capabilities of the user's internet service provider (ISP), bandwidth, computer hardware and other variables, it may take time for the bidder's submission to upload and be received by the City's eBidding system. It is the bidder's sole responsibility to ensure their bids are received on time by the City's eBidding system. The City of San Diego is not responsible for bids that do not arrive by the required date and time.

2.8. ACCESSIBILITY AND AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE: To request a copy of this solicitation in an alternative format, contact the Engineering & Capital Projects Department Contract Specialist listed on the cover of this solicitation at least five (5) working days prior to the Bid/Proposal due date to ensure availability.

3. ELECTRONIC BID SUBMISSIONS CARRY FULL FORCE AND EFFECT:

3.1. The bidder, by submitting its electronic bid, acknowledges that doing so carries the same force and full legal effect as a paper submission with a longhand (wet) signature.

3.2. By submitting an electronic bid, the bidder certifies that the bidder has thoroughly examined and understands the entire Contract Documents (which consist of the plans and specifications, drawings, forms, affidavits and the solicitation documents), and that by submitting the eBid as its bid proposal, the bidder acknowledges, agrees to and is bound by the entire Contract Documents, including any addenda issued thereto, and incorporated by reference in the Contract Documents.

3.3. The Bidder, by submitting its electronic bid, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certification, forms and affidavits submitted as part of this bid are true and correct.

3.4. The Bidder agrees to the construction of the project as described in Attachment "A-Scope of Work" for the City of San Diego, in accordance with the requirements set forth herein for the electronically submitted prices. The Bidder guarantees the Contract Price for a period of 120 days from the date of Bid opening. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent.

4. BIDS ARE PUBLIC RECORDS: Upon receipt by the City, Bids shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the Bid. General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.

5. CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:

5.1. Prior to the Award of the Contract or Task Order, you and your Subcontractors and Suppliers must register with the City's web-based vendor registration and bid management system. For additional information go to:

<http://www.sandiego.gov/purchasing/bids-contracts/vendorreg>

- 5.2. The City may not award the contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified in the Notice of Intent to Award letter, the City reserves the right to rescind the Notice of Award / Intent to Award and to make the award to the next responsive and responsible bidder / proposer.
6. **JOINT VENTURE CONTRACTORS:** Provide a copy of the Joint Venture agreement and the Joint Venture license to the City within 14 Calendar Days after receiving the Contract forms.
7. **INSURANCE REQUIREMENTS:**
- 7.1. All certificates of insurance and endorsements required by the contract are to be provided upon issuance of the City's Notice of Intent to Award letter.
- 7.2. Refer to sections 5-4, "INSURANCE" of the Supplementary Special Provisions (SSP) for the insurance requirements which must be met.
8. **REFERENCE STANDARDS:** Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

Title	Edition	Document Number
Standard Specifications for Public Works Construction ("The GREENBOOK") http://www.greenbookspecs.org/	2018	PWPI010119-01
City of San Diego Standard Specifications for Public Works Construction ("The WHITEBOOK")* https://www.sandiego.gov/ecp/edocref/greenbook	2018	PWPI010119-02
City of San Diego Standard Drawings* https://www.sandiego.gov/ecp/edocref/standarddraw	2018	PWPI010119-03
Citywide Computer Aided Design and Drafting (CADD) Standards https://www.sandiego.gov/ecp/edocref/drawings	2018	PWPI010119-04
California Department of Transportation (CALTRANS) Standard Specifications https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications	2018	PWPI030119-05
CALTRANS Standard Plans https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications	2018	PWPI030119-06
California Manual on Uniform Traffic Control Devices Revision 5 (CA MUTCD 2014 Rev 5) http://www.dot.ca.gov/programs/safety-programs/camutcd/camutcd-rev5	2014	PWPI042220-09
<p>NOTE: *Available online under Engineering Documents and References at: https://www.sandiego.gov/ecp/edocref/</p> <p>*Electronic updates to the Standard Drawings may also be found in the link above</p>		

9. **CITY'S RESPONSES AND ADDENDA:** The City, at its discretion, may respond to any or all questions submitted in writing via the City's eBidding web site in the **form of an addendum**. No other responses to questions, oral or written shall be of any force or effect with respect to this solicitation. The changes to the Contract Documents through addenda are made effective as

though originally issued with the Bid. The Bidders shall acknowledge the receipt of Addenda at the time of bid submission.

10. **CITY'S RIGHTS RESERVED:** The City reserves the right to cancel the Notice Inviting Bids at any time, and further reserves the right to reject submitted Bids, without giving any reason for such action, at its sole discretion and without liability. Costs incurred by the Bidder(s) as a result of preparing Bids under the Notice Inviting Bids shall be the sole responsibility of each bidder. The Notice Inviting Bids creates or imposes no obligation upon the City to enter a contract.
11. **CONTRACT PRICING:** This solicitation is for a Lump Sum contract with Unit Price provisions as set forth herein. The Bidder agrees to perform construction services for the City of San Diego in accordance with these contract documents for the prices listed below. The Bidder further agrees to guarantee the Contract Price for a period of 120 days from the date of Bid opening. The duration of the Contract Price guarantee may be extended, by mutual consent of the parties, by the number of days required for the City to obtain all items necessary to fulfill all contractual conditions.

12. **SUBCONTRACTOR INFORMATION:**

- 12.1. **LISTING OF SUBCONTRACTORS.** In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act" of the California Public Contract Code, the Bidder shall provide the **NAME** and **ADDRESS** of each Subcontractor who will perform work, labor, render services or who specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also state within the description, whether the subcontractor is a **CONSTRUCTOR, CONSULTANT** or **SUPPLIER**. The Bidder shall state the **DIR REGISTRATION NUMBER** for all subcontractors and shall further state within the description, the **PORTION** of the work which will be performed by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement may result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions – Section 3-2, "SELF- PERFORMANCE", which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which Bidders are seeking recognition towards achieving any mandatory, voluntary (or both) subcontracting participation goals.

Additionally, pursuant to California Senate Bill 96 and in accordance with the requirements of Labor Code sections 1771.1 and 1725.5, by submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the California Department of Industrial Relations (DIR). **The Bidder shall provide the name, address, license number, DIR registration number of any Subcontractor – regardless of tier - who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement pursuant to the contract.**

- 12.2. LISTING OF SUPPLIERS.** Any Bidder seeking the recognition of Suppliers of equipment, materials, or supplies obtained from third party Suppliers towards achieving any mandatory or voluntary (or both) subcontracting participation goals shall provide, at a minimum, the **NAME, LOCATION (CITY), DIR REGISTRATION NUMBER** and the **DOLLAR VALUE** of each supplier. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for materials and supplies unless vendor manufactures or substantially alters materials and supplies, in which case, 100% will be credited. The Bidder is to indicate within the description whether the listed firm is a supplier or manufacturer. If no indication is provided, the listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage.
- 12.3. LISTING OF SUBCONTRACTORS OR SUPPLIERS FOR ALTERNATES.** For subcontractors or suppliers to be used on additive or deductive alternate items, in addition to the above requirements, bidder shall further note "ALTERNATE" and alternate item number within the description.
- 13. SUBMITTAL OF "OR EQUAL" ITEMS:** See Section 4-6, "Trade Names" in The WHITEBOOK and as amended in the SSP.
- 14. AWARD:**
- 14.1.** The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award.
- 14.2.** Upon acceptance of a Bid, the City will prepare contract documents for execution within approximately 21 days of the date of the Bid opening and award the Contract approximately within 7 days of receipt of properly executed Contract, bonds, and insurance documents.
- 14.3.** This contract will be deemed executed and effective only upon the signing of the Contract by the Mayor or his designee and approval as to form the City Attorney's Office.
- 15. SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 3-2, "SELF-PERFORMANCE" in The GREENBOOK and as amended in the SSP which requires the Contractor to self-perform not less than the specified amount. Failure to comply with this requirement shall render the bid **non-responsive** and ineligible for award.
- 16. AVAILABILITY OF PLANS AND SPECIFICATIONS:** Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/cip/>. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Engineering & Capital Projects Department, Contracts Division.
- 17. ONLY ONE BID PER CONTRACTOR SHALL BE ACCEPTED:** No person, firm, or corporation shall be allowed to make, file, or be interested in more than one (1) Bid for the same work unless alternate Bids are called for. A person, firm or corporation who has submitted a sub-proposal to a Bidder, or who has quoted prices on materials to a Bidder, is not hereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or from submitting a Bid in its own behalf. Any Bidder who submits more than one bid will result in the rejection of all bids submitted.

18. SAN DIEGO BUSINESS TAX CERTIFICATE: The Contractor and Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, First floor and submit to the Contract Specialist upon request or as specified in the Contract Documents. Tax Identification numbers for both the Bidder and the listed Subcontractors must be submitted on the City provided forms within these documents.

19. BIDDER’S GUARANTEE OF GOOD FAITH (BID SECURITY) FOR DESIGN-BID-BUILD CONTRACTS:

19.1. For bids \$250,000 and above, bidders shall submit Bid Security at bid time. Bid Security shall be in one of the following forms: a cashier's check, or a properly certified check upon some responsible bank; or an approved corporate surety bond payable to the City of San Diego for an amount of not less than 10% of the total bid amount.

19.2. This check or bond, and the monies represented thereby, will be held by the City as a guarantee that the Bidder, if awarded the contract, will in good faith enter into the contract and furnish the required final performance and payment bonds.

19.3. The Bidder agrees that in the event of the Bidder’s failure to execute this contract and provide the required final bonds, the money represented by the cashier's or certified check will remain the property of the City; and the Surety agrees that it will pay to the City the damages, not exceeding the sum of 10% of the amount of the Bid, that the City may suffer as a result of such failure.

19.4. At the time of bid submission, bidders must upload and submit an electronic PDF copy of the aforementioned bid security. Whether in the form of a cashier's check, a properly certified check or an approved corporate surety bond payable to the City of San Diego, the bid security must be uploaded to the City’s eBidding system. By 5PM, 3 working days after the bid opening date, all bidders must provide the City with the original bid security.

19.5. Failure to submit the electronic version of the bid security at the time of bid submission AND failure to provide the original by 5PM, 3 working days after the bid opening date shall cause the bid to be rejected and deemed **non-responsive**.

Due to circumstances related to Covid-19, until further notice, all original bid bond submittals must be received by 5 PM, 3 working days after bid opening.

Upon circumstances returning to normal business as usual, the original bid bond shall once again be due by 5 PM the day after bid opening.

Original Bid Bond shall be submitted to:
Engineering & Capital Projects Department, Contracts Division
525 B Street, Suite 750 (7th Floor)
San Diego, California, 92101
To the Attention of the Contract Specialist on the Front Page of this solicitation.

20. AWARD OF CONTRACT OR REJECTION OF BIDS:

- 20.1.** This contract may be awarded to the lowest responsible and reliable Bidder.
- 20.2.** Bidders shall complete ALL eBid forms as required by this solicitation. Incomplete eBids will not be accepted.
- 20.3.** The City reserves the right to reject any or all Bids, to waive any informality or technicality in Bids received, and to waive any requirements of these specifications as to bidding procedure.
- 20.4.** Bidders will not be released on account of their errors of judgment. Bidders may be released only upon receipt by the City within 3 Working Days of the bid opening, written notice from the Bidder which shows proof of honest, credible, clerical error of a material nature, free from fraud or fraudulent intent; and of evidence that reasonable care was observed in the preparation of the Bid.
- 20.5.** A bidder who is not selected for contract award may protest the award of a contract to another bidder by submitting a written protest in accordance with the San Diego Municipal Code.
- 20.6.** The City of San Diego will not discriminate in the award of contracts with regard to race, religion creed, color, national origin, ancestry, physical handicap, marital status, sex or age.
- 20.7.** Each Bid package properly signed as required by these specifications shall constitute a firm offer which may be accepted by the City within the time specified herein.
- 20.8.** The City reserves the right to evaluate all Bids and determine the lowest Bidder on the basis of the base bid and any proposed alternates or options as detailed herein.

21. BID RESULTS:

- 21.1.** The availability of the bids on the City's eBidding system shall constitute the public announcement of the apparent low bidder. In the event that the apparent low bidder is subsequently deemed non-responsive or non-responsible, a notation of such will be made on the eBidding system. The new ranking and apparent low bidder will be adjusted accordingly.
- 21.2.** To obtain the bid results, view the results on the City's web site, or request the results by U.S. mail and provide a self-addressed, stamped envelope. If requesting by mail, be sure to reference the bid name and number. The bid tabulations will be mailed to you upon their completion. The results will not be given over the telephone.

22. THE CONTRACT:

- 22.1.** The Bidder to whom award is made shall execute a written contract with the City of San Diego and furnish good and approved bonds and insurance certificates specified by the City within 14 days after receipt by Bidder of a form of contract for execution unless an extension of time is granted to the Bidder in writing.
- 22.2.** If the Bidder takes longer than 14 days to fulfill these requirements, then the additional time taken shall be added to the Bid guarantee. The Contract shall be made in the form adopted by the City, which includes the provision that no claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
- 22.3.** If the Bidder to whom the award is made fails to enter into the contract as herein provided, the award may be annulled and the Bidder's Guarantee of Good Faith will be subject to forfeiture. An award may be made to the next lowest responsible and reliable Bidder who shall fulfill every stipulation embraced herein as if it were the party to whom the first award was made.
- 22.4.** Pursuant to the San Diego City Charter section 94, the City may only award a public works contract to the lowest responsible and reliable Bidder. The City will require the Apparent Low Bidder to (i) submit information to determine the Bidder's responsibility and reliability, (ii) execute the Contract in form provided by the City, and (iii) furnish good and approved bonds and insurance certificates specified by the City within 14 Days, unless otherwise approved by the City, in writing after the Bidder receives notification from the City, designating the Bidder as the Apparent Low Bidder and formally requesting the above mentioned items.
- 22.5.** The award of the Contract is contingent upon the satisfactory completion of the above-mentioned items and becomes effective upon the signing of the Contract by the Mayor or designee and approval as to form by the City Attorney's Office. If the Apparent Low Bidder does not execute the Contract or submit required documents and information, the City may award the Contract to the next lowest responsible and reliable Bidder who shall fulfill every condition precedent to award. A corporation designated as the Apparent Low Bidder shall furnish evidence of its corporate existence and evidence that the officer signing the Contract and bond for the corporation is duly authorized to do so.

- 23. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK:** The Bidder shall examine carefully the Project Site, the Plans and Specifications, other materials as described in the Special Provisions, Section 3-9, "TECHNICAL STUDIES AND SUBSURFACE DATA", and the proposal forms (e.g., Bidding Documents). The submission of a Bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of work, the quantities of materials to be furnished, and as to the requirements of the Bidding Documents Proposal, Plans, and Specifications.

24. CITY STANDARD PROVISIONS: This contract is subject to the following standard provisions. See The WHITEBOOK for details.

- 24.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
- 24.2.** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
- 24.3.** The City of San Diego Municipal Code §22.3004 for Contractor Standards.
- 24.4.** The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
- 24.5.** Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.
- 24.6.** The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
- 24.7.** The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.

25. PRE-AWARD ACTIVITIES:

- 25.1.** The contractor selected by the City to execute a contract for this Work shall submit the required documentation as specified in the herein and in the Notice of Award. Failure to provide the information as specified may result in the Bid being rejected as **non-responsive**.
- 25.2.** The decision that bid is non-responsive for failure to provide the information required within the time specified shall be at the sole discretion of the City.

ATTACHMENTS

ATTACHMENT A
SCOPE OF WORK

SCOPE OF WORK

1. **SCOPE OF WORK:** The North City Water Reclamation Plant expansion project will increase treatment capacity from 30 mgd to an annual average flow of 52 mgd. As part of this project, there will be several process modifications which will be implemented throughout the entire plant. The major scope elements associated with the expansion include: construction of new primary clarifiers, a new flow equalization basin, expansion and reconfiguration of the aeration basins and secondary clarifiers to first and second stage bioreactor basins, installation of four new secondary clarifiers, one new tertiary filter, Pure Water Facility influent pump station and pipeline, equipment replacements, and other work (site work, yard piping, electrical and instrumentation work).
 - A. The NCWRP is an active and operational water reclamation facility. It is required that the facility remain in operation at all times, except for City approved planned shutdown intervals during the cutover of new to existing systems.
 - i. Continuous operation of Owner's facilities is of critical importance. Schedule and conduct activities to enable existing facilities to operate continuously, unless otherwise specified.
 - ii. Perform Work continuously during critical connections and changeovers, and as required to prevent interruption of Owner's operations.
 - iii. When necessary, plan, design, and provide various temporary services, utilities, connections, temporary piping and heating, access, and similar items to maintain continuous operations of Owner's facility.
 - iv. See the requirements under Section 01 31 13, Project Coordination.
 - B. The Project has specific milestones, constraints, testing periods, and completion requirements. In general these include:
 - i. Milestone 1 – Installation of the RS vault for connection of the new Morena Pump Station Force Main and Brine/Concentrate line, relocation of utilities, and all work required to allow for the tunnel shaft installation.
 - ii. Milestone 2 – Completion and Early Acceptance for Beneficial Use of the Headworks Facility 05
 - iii. Milestone 3 – Completion and Early Acceptance for Beneficial Use of the Secondary Clarifier and RAS Pumping Facility 23 and Facility 70 Secondary Clarifier Electrical Building
 - iv. Milestone 4 – Completion and Early Acceptance for Beneficial Use of the Primary Treatment Facility 10
 - v. Milestone 5 – Installation of the conveyance piping to Eastgate Mall.
 - vi. Milestone 6 – Completion and Early Acceptance for Beneficial Use of the NCPWF Pump Station and Conveyance
 - vii. Milestone 7 - Intermediate Substantial Completion – Completion of all requirements defined herein for Intermediate Substantial Completion.

- viii. Milestone 8 - Substantial Completion – Occurs after the completion of the Integration Period and upon completing the prerequisites for substantial completion.
- ix. Milestone 9 - Final Completion – After successful completion of substantial completion requirements, and all aspects of the Contract Closeout have been satisfactorily completed.

C. PACKAGE 2 - NCWRP EXPANSION WORK: The scope of work is for the Expansion of the NCWRP from 30 mgd to 52 mgd including the following new facilities and facility modifications, and the associated piping, HVAC, plumbing, instrumentation and controls, electrical, and site work:

- i. 01 - Influent Pump Station – Influent pumps refurbishment and variable frequency drive replacement, modifications to add combined waste and MF backwash from the NCPWF.
- ii. 05 - Headworks – New fine screens and washer/compactors, grit washing and dewatering equipment replacement, and screenings conveyor and scum concentrator refurbishment.
- iii. 10 - Grit Basins – New grit pumps and new ferric chloride and polymer addition for chemically enhanced primary treatment, and grit aeration blower refurbishment.
- iv. 10 - Primary Clarifiers – New primary clarifiers, primary sludge and scum pumps, channel mixing system and ferric chloride storage and feed systems, extension of the existing odor control system to serve the new flow equalization basin and new primary clarifiers, and refurbishment of the existing primary sludge grinders.
- v. 11 - Intermediate Pump Station – New intermediate pumps, new channel mixing and control valve replacement.
- vi. 15 - First Stage Bioreactor Basins – Retrofit of existing aeration basins to first stage bioreactors, construction of new bioreactor basins adjacent to existing bioreactor basins, new electrical room, new mixed liquor recycle pumps, mixers, process aeration system, process aeration blowers, and scum removal system. Replace existing agitation air blowers.
- vii. 16 - Second Stage Bioreactor Basins – Conversion of existing rectangular secondary clarifiers to second stage bioreactor basins, construct channel modifications, construct additional second stage bioreactor basins, install new mixers and process aeration system, and demolish existing return activated sludge pumping system.
- viii. 20 – Bioreactor/Filter Support Facility – Modification of electrical systems and piping in this existing facility.
- ix. 25 – Tertiary Filters – Construction of a new tertiary filter, modification of filters to add filter to waste capabilities, construct filter influent structure to include overflow provisions and filter influent coagulation mixing.
- x. 23 - Secondary Clarifiers – Construction of new circular secondary clarifiers, included mixed liquor flow split structure, return activated sludge pumping and secondary scum pumping.

- xi. 26 – Waste Backwash Tank – Modifications to include provisions for returning combined waste and membrane filtration backwash flows from the NCPWF to the influent pump station. Modifications include construction of a combined waste overflow structure and associated piping, valve and control modifications.
- xii. 30 – Chlorine Contact Basin – Modifications to the sodium hypochlorite addition and mixing systems.
- xiii. 34 – Effluent Pump Station – Expand reclaimed water high capacity (RWHP) pumping system, replace existing RWHP pumps and motors, piping modifications, including new piping for blending water from the NCPWF.
- xiv. 45 – Blended Sludge Pump Station – Blended sludge pumps replacement, motor refurbishment.
- xv. 55 – Chemical Building – Modifications in the existing chemical facility to include new polymer and phosphoric acid systems.
- xvi. 56 – Urea Facility - Construction of new structure to be used for urea storage and feed systems. The structure is included in this project, but electrical, mechanical and instrumentation and controls will be installed in a separate construction contract.
- xvii. 57 – Disinfection Feed Facility – Modifications to existing sodium hypochlorite feed systems.
- xviii. 58 – Supplemental Carbon – Construction of new facility to be used for carbon source chemical storage and feed systems.
- xix. 70 – Secondary Clarifier Electrical Building – Construction of a new electrical building.
- xx. Additional site facilities will be constructed including the centrate valve vault and RS valve vault for tie-in to the Morena Pump Station force main.

D. PACKAGE 3 - NCPWF INFLUENT PUMP STATION AND CONVEYANCE WORK: The scope of work is for the Expansion of the NCWRP from 30 mgd to 52 mgd including the following new facilities and facility modifications, and the associated piping, HVAC, plumbing, instrumentation and controls, electrical, and site work:

- i. The completed Work will provide Owner with a new pump station and new conveyance facilities with maximum capacity of 42.5 mgd to deliver unchlorinated treated effluent to the NCPWF. The Work also includes portions of conveyance pipelines delivering combined waste flows, brine, and blending water from the NCPWF to the NCWRP. Additional major work items, including but not limited to the items indicated below, are required.
- ii. Site Civil:
 - o Demolition and relocation of storm drain infrastructure.
 - o Bioinfiltration Basin.
 - o Finish grading.
 - o Pavement restoration.
 - o Retaining wall restoration.

- iii. Pipelines:
 - Welded steel pipe and associated appurtenances for NCPWF influent conveyance.
 - HDPE pipe for blending water conveyance.
 - HDPE pipe for brine conveyance.
 - FRPMP or HDPE pipe for combined waste conveyance.
- iv. Electrical:
 - Duct banks and handholes for electrical service to pump station facilities.
 - New electrical substation.
 - Adjustable speed drives.
 - All pump station facility electrical elements, equipment, panels, and lighting.
 - Grounding system.
- v. Mechanical:
 - Vertical turbine pumps and motors.
 - Welded steel pipe suction header, manifolds, and pump cans.
 - Discharge header.
 - Pump discharge branches and associated valves and appurtenances.
 - Surge chamber, air compressor, and associated valves and appurtenances.
 - Bridge crane.
 - Two motorized slide gates.
 - All HVAC equipment, ducts, and elements associated with construction of the pump station and electrical room.
 - All plumbing associated with construction of the pump station and electrical room.
- vi. Instrumentation and Control:
 - Level indicator, level transmitter, and gate controls for the pump station inlet structure.
 - Pressure transmitters, pump controls, flow meter, surge tank controls, air compressor controls, and all instrumentation and controls required for the operation of the pump station facility.
- vii. Structural:
 - Pump room and electrical room.
 - Concrete inlet structure.

- Footings, foundations, walls, roofs, beams, hatches, and all structural elements for the pump station facility and inlet basin.
- Equipment pads and pipe supports.
- viii. Architectural:
 - Architectural elements, components, and finishes for the pump station facilities.

E. The Work shall be performed in accordance with:

- i. The Notice Inviting Bids
- ii. PACKAGE 2: TECHNICALS (VOLUMES 1, 2, 3, 4, 5, 5A, 5B, 5C, 6)
- iii. PACKAGE 2: PLANS numbered **40381-2001-D** through **40381-21169-D** (VOLUMES 7-14)
- iv. PACKAGE 3: TECHNICALS (VOLUMES 2-3) [PACKAGE 2 TECHNICALS, VOLUME 1, SHALL ALSO APPLY TO PACKAGE 3]
- v. PACKAGE 3: PLANS numbered **40381-3001-D** through **40381-3164-D** (VOLUME 4)

2. LOCATION OF WORK: The location of the Work is as follows:

4949 Eastgate Mall, San Diego CA, 92121

3. CONTRACT TIME: The Contract Time for completion of the Work, including the Plant Establishment Period, shall be **906 Working Days**. See milestone completion requirements below. See milestone descriptions in Technicals Section 01 31 13. See Liquidated Damages in Attachment E, Section 6-9, "LIQUIDATED DAMAGES".

Milestone No.	Milestone Description	Required Completion Date
Milestone 1	Morena Tunnel Shaft utility relocation and connection preparation	203 Working Days after Notice to Proceed
Milestone 2	Completion and Early Acceptance for Beneficial Use of the Headworks Facility	296 Working Days after Notice to Proceed
Milestone 3	Completion and Early Acceptance for Beneficial Use of the Secondary Clarifiers and associated piping and facilities	435 Working Days after Notice to Proceed
Milestone 4	Completion and Early Acceptance for Beneficial Use of the Primary Treatment Facility	467 Working Days after Notice to Proceed
Milestone 5	Installation of the conveyance piping to Eastgate Mall	468 Working Days after Notice to Proceed
Milestone 6	Completion and Early Acceptance for Beneficial Use of the NCPWF Influent Pump Station and Conveyance	598 Working Days after Notice to Proceed

Milestone 7	Intermediate Substantial Completion	709 Working Days after Notice to Proceed
Milestone 8	Substantial Completion	844 Working Days after Notice to Proceed
Milestone 9	Final Completion	906 Working Days after Notice to Proceed

ATTACHMENT B
PHASED FUNDING PROVISIONS

PHASED FUNDING PROVISIONS

1. PRE-AWARD

- 1.1. Within 10 Working Days of the Notice of Intent to Award, the Contractor must contact the Project Manager to discuss fund availability for each phase and shall also submit the following:
 - 1.1.1. Construction Cost Loaded Schedule in accordance with 6-1, "CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK" and 7-3, "PAYMENT."
- 1.2. Contractor's failure to perform any of the following may result cancelling the award of the Contract:
 - 1.2.1. Meeting with the City's Project Manager to discuss the Phased Funding Schedule.
 - 1.2.2. Agreeing to a Phased Funding Schedule within **thirty** days of meeting with the City's Project Manager.

2. POST-AWARD

- 2.1. Do not start any construction activities for the next phase until the Notice to Proceed (NTP) has been issued by the City. The City will issue a separate NTP for each phase.
- 2.2. The City may issue the NTP for a subsequent phase before the completion of the preceding phase.

PHASED FUNDING SCHEDULE AGREEMENT

The particulars left blank below, such as the total number of phases and the amounts assigned to each phase, will be completed with funding specific information from the Pre-Award Schedule and Construction Cost Loaded Schedule submitted to and approved by the City.

BID NUMBER: _____

CONTRACT OR TASK TITLE: _____

CONTRACTOR: _____

Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to-Exceed Amount
1				\$
2				\$
3				\$
Contract Total				\$

Notes:

- 1) WHITEBOOK section 7-3.10, "Phased Funding Compensation" applies.
- 2) The total of all funding phases shall be equal to the TOTAL BID PRICE as shown on BID SCHEDULE 1 - PRICES.
- 3) This PHASED FUNDING SCHEDULE AGREEMENT will be incorporated into the CONTRACT and shall only be revised by written modifications to the CONTRACT.

CITY OF SAN DIEGO

CONTRACTOR

PRINT NAME: _____

PRINT NAME: _____

Construction Senior Engineer

Signature: _____

Title: _____

Date: _____

Signature: _____

Date: _____

PRINT NAME: _____

Design Senior Engineer

Signature: _____

Date: _____

ATTACHMENT C

RESERVED

ATTACHMENT D
FUNDING AGENCY PROVISIONS

**CALIFORNIA STATE REVOLVING FUND (CASRF), STATE OF CALIFORNIA PROPOSITION 1
AND PROPOSITION 68, METROPOLITAN WATER DISTRICT 2014 LOCAL RESOURCES
PROGRAM, AND ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIREMENTS:**

CLEAN WATER STATE REVOLVING FUND (CWSRF)

DRINKING WATER STATE REVOLVING FUND (DWSRF)

WATER INFRASTRUCTURE FINANCE AND INNOVATION ACT (WIFIA)

IN THE EVENT THAT THESE REQUIREMENTS CONFLICT WITH THE CITY'S GENERAL EOC REQUIREMENTS, THE FUNDING AGENCY'S REQUIREMENTS WILL CONTROL.

1. WATER INFRASTRUCTURE FINANCE AND INNOVATION ACT (WIFIA) PROGRAM, 2014 LOCAL RESOURCES PROGRAM, CALIFORNIA STATE REVOLVING FUND (CASRF), STATE OF CALIFORNIA PROPOSITION 1 AND PROPOSITION 68 REQUIREMENTS.

The City anticipates receiving financial assistance from the Federal Government, the Metropolitan Water District of Southern California, and the State of California for this project. The following requirements are conditions of the receipt of financial assistance from the United States Environmental Protection Agency under the Federal **Water Infrastructure Finance and Innovation Act (WIFIA)**, the **Metropolitan Water District** under the **2014 Local Resources Program**, the State Water Resources Control Board under the **California Water State Revolving Fund (CASRF)** and **Proposition 68** Grant Programs, and the California Department of Water Resources under the Proposition 1 Grant Program.. The firm contracting with the City (Contractor) shall comply with all of the following requirements. If there are other provisions in the Contract Documents that address the same subjects as this exhibit, Contractor shall comply with both provisions, with the more stringent requirements controlling. If there is a direct conflict between the Agreement and this exhibit, the requirements of this Exhibit shall control in order to preserve the City's eligibility to receive financial assistance.

- 1.1. RECORDS.** Contractor shall maintain separate books, records and other material relative to the Project. Contractor shall also retain such books, records, and other material for itself and for each subcontractor who performed or performs work on this project for a minimum of thirty-six (36) years after Project Completion. Contractor shall require that such books, records, and other material are subject at all reasonable times (at a minimum during normal business hours) to inspection, copying, and audit by the State Water Board, the California State Auditor, the Bureau of State Audits, the United States Environmental Protection Agency (USEPA), the Office of Inspector General, the Internal Revenue Service, the Governor, or any authorized representatives of the aforementioned. Contractor shall allow and shall require its subcontractors to allow interviews during normal business hours of any employees who might reasonably have information related to such records. Contractor agrees to include a similar duty regarding audit, interviews, and records retention in any subcontract related to the performance of this Agreement. The provisions of this section shall survive the termination or expiration of this Agreement. (CWSRF Agmt. § 2.17(b); DWSRF Agmt. Ex. C § C.3.2(d)).
- 1.2. BONDS.** For construction contracts of \$250,000 or more, Contractor shall not begin construction until after it has provided the City with performance and payment bonds each for 100% of the contract value. (CWSRF Agmt. § 4.3; DWSRF Agmt. Ex. C § C.3.6).
- 1.3. COMPLIANCE WITH LAWS AND REGULATIONS.** Contractor shall, at all times, comply with and require its subcontractors to comply with all applicable federal and state laws, rules, guidelines, regulations, and requirements. Without limitation of the foregoing, to the extent applicable, Contractor shall:

- a) Comply with and require its subcontractors on the Project to comply with federal DBE requirements.
- b) Comply with and require its subcontractors to comply with the list of federal laws in this **Attachment D**. (CWSRF Agmt. § 4.5; DWSRF Agmt. Ex. C § C.3.8).

1.4. INDEMNIFICATION.

- a) Contractor shall defend, indemnify and hold harmless the State Water Quality Control Board, the State of California, the California Infrastructure and Economic Development Bank (Bank), and any trustee, and their officers, employees, and agents for the Bonds issued by the Bank, if any, to the same extent Contractor is obligated to defend, indemnify, and hold harmless the City under the Agreement. Contractor shall require its subcontractors to similarly defend, indemnify, and hold harmless the State Water Quality Control Board, the Bank, and any trustee, and their officers, employees, and agents for the Bonds issued by the Bank, if any, to the same extent its subcontractors are obligated to defend, indemnify, and hold harmless the Contractor. CWSRF Agmt. § 4.11; DWSRF Agmt. Ex. C § C.3.17).
- b) Except for the sole negligence or willful misconduct of the Metropolitan Water District of Southern California (Metropolitan), Contractor agrees at its sole cost and expense to protect, indemnify, defend, and hold harmless Metropolitan and its Board of Directors, officers, representatives, agents and employees from and against any and all claims and liability of any kind (including, but not limited to, any claims or liability for injury or death to any person, damage to property, natural resources or the environment, or water quality problems) that arise out of or relate to San Diego's approval, construction, operation, repair or ownership of the Project. Such indemnity shall include all damages and losses related to any claim made, whether or not a court action is filed, and shall include attorney fees, administrative and overhead costs, engineering and consulting fees and all other costs related to or arising out of such claim of liability, but shall exclude damages and losses that arise from the sole negligence or willful misconduct of Metropolitan. (LRP Agmt. § 8.2).

1.5. NON-DISCRIMINATION REQUIREMENTS.

- a) During the performance of this Agreement, Contractor and its subcontractors shall not unlawfully discriminate, harass, or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religion, religious creed, national origin, sexual orientation, mental or physical disability (including HIV and AIDS), mental disability, medical condition, age, marital status, denial of family and medical care leave, or genetic information, gender, gender identity, gender expression, or military and veteran status.
- b) Contractor and its subcontractors shall ensure that the evaluation and treatment of their employees and applicants for employment are free from such discrimination and harassment.
- c) Contractor and its subcontractors shall comply with the provisions of the Fair Employment and Housing Act and the applicable regulations promulgated thereunder. (Gov. Code, §12990, subs. (a)-(f) et seq.; Cal. Code Regs., tit. 2, § 7285

et seq.) Such regulations are incorporated into this Agreement by reference and made a part hereof as if set forth in full.

d) Contractor and its subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement. (CWSRF Agmt. § 4.15(e)-(h); DWSRF Agmt. Ex. C § C.3.21(e)-(h)).

1.6. INSURANCE. For any policy of general liability insurance concerning the construction of the Project, Contractor will cause, and will require its subcontractors to cause, a certificate of insurance to be issued showing the State Water Quality Control Board, its officers, agents, employees, and servants as additional insured. (CWSRF Agmt. § 4.17; DWSRF Agmt. Ex. C § C.3.25).

1.7. EXCLUDED PARTIES. Contractor shall not contract with any party who is debarred or suspended or otherwise excluded from or ineligible for participation in any work overseen, directed, funded, or administered by the State Water Board program for which this funding is authorized. For any work related to this Agreement, Contractor shall not contract with any individual or organization on the State Water Board's List of Disqualified Businesses and Persons that is identified as debarred or suspended or otherwise excluded from or ineligible for participation in any work overseen, directed, funded, or administered by the State Water Board program for which funding under this Agreement is authorized. The State Water Board's List of Disqualified Businesses and Persons is located at:

http://www.waterboards.ca.gov/water_issues/programs/enforcement/fwa/dbp.shtm

(CWSRF Agmt. § 4.18; DWSRF Agmt. Ex. C § C.3.26).

1.8. PREVAILING WAGES. Contractor shall comply with all California State and Federal prevailing wage laws. Contractor shall include in its subcontracts the full the language provided in this **Attachment D** regarding federal prevailing wages. (CWSRF Agmt. § 4.19; DWSRF Agmt. Ex. C § C.3.28).

1.9. SIGNAGE. Upon the direction of the City, Contractor shall place a sign at least four feet tall by eight feet wide made of ¾ inch thick exterior grade plywood or other approved material in a prominent location on the Project site and shall maintain the sign in good condition for the duration of the construction period. The sign must include the following disclosure statement and color logos (available from the State Water Resources Control Board and Department of Water Resources):



"Funding for this \$[insert value] million [insert name] project has been provided in full or in part by California State Revolving Funds and Prop 68 Funds through agreements with the State Water Resources Control Board. California's State Revolving Funds are capitalized through a variety of funding sources, including grants from the United States Environmental Protection Agency and state bond proceeds."

The Project sign may include another agency's required promotional information so long as the above logos and disclosure statement are equally prominent on the sign.

The sign shall be prepared in a professional manner. (CWSRF Agmt. Ex. A § 9; DWSRF Agmt. Ex. A § A.2.3).

Project funded through Prop 1 funds will include following language (available from the California Department of Water Resources):

"Funding for this \$[insert value] million [insert name] project has been provided in full or in part by California State Revolving Funds and Prop 1 Funds through agreements with the State Water Resources Control Board and California Department of Water Sources. California's State Revolving Funds are capitalized through a variety of funding sources, including grants from the United States Environmental Protection Agency and state bond proceeds."

See **Attachment E – Supplementary Special Provisions, Section 3-11.2, "Project Identification Sign"** for more information.

- 1.10. DISCLAIMER.** Funding for this project has been provided in full or in part through an agreement with the State Water Resources Control Board. California's State Revolving Funds are capitalized through a variety of funding sources, including grants from the United States Environmental Protection Agency and state bond proceeds. The contents of this document do not necessarily reflect the views and policies of the foregoing, nor does mention of trade names or commercial products constitute endorsement or recommendation for use. (DWSRF Agmt. Ex. A § A.2.1).
- 1.11. FEDERAL AWARD CONDITIONS.** Contractor shall comply with the following federal conditions:
- American Iron and Steel.** Unless the City has obtained a waiver from USEPA on file with the State Water Board or unless this Project is not a project for the construction, alteration, maintenance or repair of a public water system or treatment work, Contractor shall not purchase "iron and steel products" produced outside of the United States on this Project. Unless the City has obtained a waiver from USEPA on file with the State Water Board or unless this Project is not a project for the construction, alteration, maintenance or repair of a public water system or treatment work, Contractor shall ensure that all "iron and steel products" used in the Project were or will be produced in the United States. For purposes of this section, the term "iron and steel products" means the following products made primarily of iron or steel: lined or unlined pipes and fittings, manhole covers and other municipal castings, hydrants, tanks, flanges, pipe clamps and restraints, valves, structural steel, reinforced precast concrete, and construction materials. "Steel" means an alloy that includes at least 50 percent iron, between .02 and 2 percent carbon, and may include other elements. CWSRF Agmt. Ex. E § A(1); DWSRF Agmt. Ex. C § C.4.3.i; WIFIA Agmt. §§ 12(j), 14(l))
 - Wage Rate Requirements (Davis-Bacon).** Contractor shall include in its subcontracts the full the language provided in **Attachment D**, Section 10, regarding federal prevailing wages. CWSRF Agmt. Ex. E § A(2); DWSRF Agmt. Ex. C § C.4.3.ii; WIFIA Agmt. §§ 12(j), 14(l)).

3. **Reserved.**
4. **Copyright and Patent.** USEPA and the State Water Board have the right to reproduce, publish, use and authorize others to reproduce, publish and use copyrighted works or other data developed pursuant to this Agreement. Where an invention is made with Project Funds, USEPA and the State Water Board retain the right to a worldwide, nonexclusive, nontransferable, irrevocable, paid-up license to practice the invention owned by Contractor. Contractor must utilize the Interagency Edison extramural invention reporting system at <http://iEdison.gov> and shall notify the State Water Board when an invention report, patent report, or utilization report is filed. (CWSRF Agmt. Ex. E § A(5)(e); DWSRF Agmt. Ex. C § C.4.3.i)
5. **Credit.** Contractor agrees that any reports, documents, publications or other materials developed for public distribution supported by this Agreement shall contain the following statement (CWSRF Agmt. Ex. E § A(5)(f)):

"This project has been funded wholly or in part by the United States Environmental Protection Agency and the State Water Resources Control Board. The contents of this document do not necessarily reflect the views and policies of the Environmental Protection Agency or the State Water Resources Control Board, nor does the EPA or the Board endorse trade names or recommend the use of commercial products mentioned in this document."
6. **Trafficking in Persons.** Contractor, its employees, its subcontractors and their employees may not engage in severe forms of trafficking in persons during the term of this Agreement, procure a commercial sex act during the term of this Agreement, or use forced labor in the performance of this Agreement. Contractor must include this provision in its subcontracts under this Agreement. Contractor must inform the City immediately of any information regarding a violation of the foregoing. Contractor understands that failure to comply with this provision may subject the State Water Board to loss of federal funds, and the loss of funding for this Project. (CWSRF Agmt. Ex. E § A(5)(h); DWSRF Agmt. Ex. C § C.4.3.xiii).

1.12. CIVIL RIGHTS OBLIGATIONS. Contractor shall comply with the following federal non-discrimination requirements CWSRF Agmt. Ex. E § B; DWSRF Agmt. Ex. C § C.4.3.xv; WIFIA Agmt. Ex. E):

- a) Title VI of the Civil Rights Act of 1964, which prohibits discrimination based on race, color, and national origin, including limited English proficiency (LEP).
- b) Section 504 of the Rehabilitation Act, 29 USC 794, supplemented by EO 11914, 41 FR 17871, April 29, 1976 and 11250, 30 FR 13003, October 13, 1965, which prohibits discrimination against persons with disabilities.
- c) The Age Discrimination Act, 42 USC 6101 et seq, which prohibits age discrimination.
- d) Section 13 of the Federal Water Pollution Control Act Amendments of 1972, which prohibits discrimination on the basis of sex.
- e) 40 CFR Part 7, as it relates to the foregoing.

- f) Executive Order No. 11246. Contractor shall include in its subcontracts related to the Project the following provisions (41 CFR § 60-1.4(b)):

"During the performance of this contract, the contractor agrees as follows:

- "(1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the City setting forth the provisions of this nondiscrimination clause.*
- "(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.*
- "(3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.*
- "(4) The contractor will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided by the City advising the labor union or workers' representatives of the contractor's commitments under section 202 of Executive Order 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.*
- "(5) The contractor will comply with all provisions of Executive Order 11246 of September. 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.*

- "(6) The contractor will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- "(7) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- "(8) The contractor will include the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such, the contractor may request the United States to enter into such litigation to protect the interests of the United States."

- g) **Disadvantaged Business Enterprises (40 CFR Part 33).** Contractor agrees to comply with the requirements of USEPA's Program for Utilization of Small, Minority and Women's Business Enterprises. The DBE rule can be accessed at www.epa.gov/osbp. Contractor shall comply with 40 CFR Section 33.301, and retain all records documenting compliance with the six good faith efforts. The Contractor shall not discriminate on the basis of race, color, national origin or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 40 CFR part 33 in the award and administration of contracts awarded under EPA financial assistance agreements. Failure by the Contractor to carry out these requirements is a material breach of this contract which may result in the termination of this contract or other legally available remedies. (CWSRF Agmt. Ex. E § D(2); DWSRF Agmt. Ex. A § A.2.2.5; WIFIA Agmt. Ex. E, 40 CFR 33.302(i))

1.13. PROCUREMENT PROHIBITIONS UNDER SECTION 306 OF THE CLEAN AIR ACT AND SECTION 508 OF THE CLEAN WATER ACT, INCLUDING EXECUTIVE ORDER 11738, ADMINISTRATION OF THE CLEAN AIR ACT AND THE FEDERAL WATER POLLUTION CONTROL ACT WITH RESPECT TO FEDERAL CONTRACTS, GRANTS, OR LOANS; 42 USC § 7606; 33 USC § 1368. Except where the purpose of this Agreement is to remedy the cause of the violation, Contractor may not procure goods, services, or materials from

suppliers excluded under the federal System for Award Management: <http://www.sam.gov/>.

- 1.14. Debarment and Suspension Executive Order 12549 (1986).** Contractor certifies that it will not knowingly enter into a contract with anyone who is ineligible under the 2 CFR part 180 and part 1532 to participate in the Project. Suspension and debarment information can be accessed at <http://www.sam.gov>. Contractor represents and warrants that it has or will include a term or conditions requiring compliance with this provision in all of its subcontracts under this Agreement. (WIFIA Agmt. Ex. E, Debarment and Suspension, Executive Order 12549).
 - 1.15. SECURE CONNECTION.** Contractor agrees that if its network or information system is connected to USEPA networks to transfer data using systems other than the Environmental Information Exchange Network or USEPA's Central Data Exchange, it will ensure that any connections are secure. (CWSRF Agmt. Ex. E § D(5); DWSRF Agmt. Ex. C § C.4.3.xxii).
 - 1.16. GEOSPATIAL DATA STANDARDS.** All geospatial data created pursuant to this Agreement that is submitted to the State Water Board for use by USEPA or that is submitted directly to USEPA must be consistent with Federal Geographic Data Committee endorsed standards. Information on these standards may be found at www.fgdc.gov. (CWSRF Agmt. Ex. E § E; DWSRF Agmt. Ex. C § C.4.3.xxiii)
 - 1.17. FEDERAL LOBBYING RESTRICTIONS.** Recipients of federal financial assistance may not pay any person for influencing or attempting to influence any officer or employee of a federal agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress with respect to the award, continuation, renewal, amendment, or modification of a federal grant, loan, or contract. These requirements are implemented for USEPA in 40 CFR Part 34, which also describes types of activities, such as legislative liaison activities and professional and technical services, which are not subject to this prohibition. Upon award of this contract, Contractor shall complete and submit to the City the certification and disclosure forms in Appendix A and Appendix B to 40 CFR Part 34. Contractor shall also require all subcontractors and suppliers of any tier awarded a subcontract over \$100,000 to similarly complete and submit the certification and disclosure forms pursuant to the process set forth in 40 CFR 34.110. (WIFIA Agmt. Ex. E, Section 319 of Pub. L. 101-121).
 - 1.18. CHILD SUPPORT COMPLIANCE ACT.** Contractor shall fully comply with all applicable state and federal laws relating to child and family support enforcement, including, but not limited to, disclosure of information and compliance with earnings assignment orders, as provided in Family Code § 5200 et seq. In addition, the Contractor shall fully complying with the earnings assignment orders of all employees and is providing the names of all new employees to the New Hire Registry maintained by the California Employment Development Department.
- 2. NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246) located at 41 CFR § 60-4.2.**

 - 2.1.** The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.

2.2. The goal and timetables for minority and female participation, expressed in percentage terms for the Contractor’s aggregate workforce in each trade on all construction work in the covered area, as follows:

	<u>Goal</u>
1. Minority Participation:	16.9%
2. Female Participation:	6.9%

2.3. These goals are applicable to all the Contractor’s construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the Contractor performs Work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the Work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both federally involved and non-federally involved Work.

2.4. The Contractor’s compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals.

2.5. The hours of minority and female employment and training shall be substantially uniform throughout the length of the Contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor’s goals shall be a violation of the Contract, the Executive Order, and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

2.6. The Contractor shall provide written notification to the Director the Office of Federal Contract Compliance Programs within 10 Working Days of award of any Subcontract in excess of \$10,000 at any tier for Work under the Contract resulting from this solicitation. The notification shall list the name, address and telephone number of the Subcontractor; employer identification number of the Subcontractor; estimated dollar amount of the Subcontract; estimated starting and completion dates of the Subcontract; and the geographical area in which the subcontract is to be performed. The “covered area” is the City of San Diego.

3. EQUAL OPPORTUNITY CLAUSES:

3.1. The following equal opportunity clauses are incorporated by reference herein:

1. The equal opportunity clause located 41 CFR 60.1.4(a), which specifies the obligations imposed under Executive Order 11246.
2. The equal opportunity clause located at 41 CFR 60-741.5, which contains the obligations imposed by Section 503 of the Rehabilitation Act of 1973.
3. The “Equal Opportunity Clause” (Resolution No. 765092) filed on December 4, 1978, in the Office of the City Clerk, San Diego, California and incorporated in the

“Standard Federal Employment Opportunity Construction Contract Specifications (Executive Order 11246 - Document No. 769023, filed September 11, 1984, in the Office of the City Clerk, San Diego, California) is applicable to all non-exempt City construction contracts and subcontracts of \$2,000 or more.

4. Age Discrimination Act of 1975, Pub. L. 94-135.
5. Title VI of the Civil Rights Act of 1964, Pub. L. 88-352.
6. Section 13 of the Federal Water Pollution Control Acts Amendments of 1972, Pub. L. 92-5200 (the Clean Water Act).
7. Section 504 of the Rehabilitation Act of 1973, Pub. L. 93-112 (Executive Orders 11914 and 11250).
8. Women’s Minority Business Enterprises, Executive Orders 11625, 12138 and 12432.
9. Section 129 of the Small Business Administration Reauthorization and Amendment Act of 1988, Pub. L. 100-590.

4. STANDARD FEDERAL EQUAL EMPLOYMENT SPECIFICATIONS:

4.1. The Contractor is required to comply with the 15 “Standard Federal Equal Employment Specifications” in section 4.2 below and also located in 41 CFR 60-4.3 for federal and federally-assisted construction contracts in excess of \$10,000.

4.2. Standard Federal Equal Employment Specifications.

1. As used in these specifications:
 - a) Covered area” means the geographical area described in the solicitation from which this contract resulted;
 - b) “Director” **means Director, Office of Federal Contract Compliance Programs, United States Department of Labor**, or any person to whom the Director delegates authority;
 - c) “Employer identification number” means the Federal Social Security number used on the Employer’s Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
 - d) Minority” includes:
 - i. Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - ii. Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
 - iii. Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and

- iv. American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
4. The Contractor shall implement the specific affirmative action standards provided in item 7, paragraphs "a" through "p", of this section below. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered Construction contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.
5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their

training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.

7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - a) Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities
 - b) Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
 - c) Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
 - d) Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
 - e) Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.

- f) Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g) Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with onsite supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h) Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i) Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j) Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
- k) Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR part 60-3.
- l) Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

- m) Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
 - n) Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
 - o) Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
 - p) Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (item 7, paragraphs "a" through "p", of this section). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under item 7, paragraphs "a" through "p", of this section that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, sexual orientation, gender identity, or national origin.

11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
 12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
 13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in item 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
 14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
 15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).
- 4.3.** Segregated Facilities (41 CFR 60-1.8). The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensuring that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. This obligation extends to all contracts containing the equal opportunity clause regardless of the amount of the contract. The term "facilities," as used in this section, means waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, wash rooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for

employees; Provided, That separate or single-user restrooms and necessary dressing or sleeping areas shall be provided to assure privacy between the sexes.

5. VIOLATION OR BREACH OF REQUIREMENTS:

5.1. If at any time during the course of the Contract there is a violation of the Affirmative Action or Equal Employment Opportunity requirements by the Contractor, or the Subcontractors, the City will notify the Contractor of the breach. The City may withhold any further progress payments to the Contractor until the City is satisfied that the Contractor and Subcontractors are in full compliance with these requirements.

6. MONTHLY EMPLOYMENT UTILIZATION REPORTS:

6.1. Refer to GENERAL EQUAL OPPORTUNITY CONTRACTING PROGRAM REQUIREMENTS, CONSTRUCTION CONTRACTOR REQUIREMENTS in The WHITEBOOK and the following:

1. Federal and Non-Federal Work in San Diego County. Submit an updated list only if work is complete or new contracts have been awarded during the span of this project.

7. RECORDS OF PAYMENTS TO DBEs:

7.1. The Contractor shall maintain records and documents of payments to DBEs for 5 years following the NOC. These records shall be made available for inspection upon request by any authorized representative of the City, funding agency, or both. The reporting requirement shall be extended to any certified DBE Subcontractor.

8. FEDERAL WAGE REQUIREMENTS FOR FEDERALLY FUNDED PROJECTS:

8.1. The successful Bidder's work shall be required to comply with Executive Order 11246, entitled "Equal Employment Opportunity," as amended by Executive Order 11375, and as supplemented in Department of Labor regulations (41 CFR chapter 60).

8.2. This Executive Order pertains to Equal Employment Opportunity regulations and contains significant changes to the regulations including new goals and timetables for women in construction and revised goals and time-tables for minorities in construction.

8.3. Minimum wage rates for this project have been predetermined by the Secretary of Labor and are set forth in the Decision of the Secretary and bound into the specifications book. Should there be any difference between the state or federal wage rates, including health and welfare funds for any given craft, mechanic, or similar classifications needed to execute the Work, it shall be mandatory upon the Contractor or subcontractor to pay the higher of the two rates.

8.4. The minimum wage rate to be paid by the Contractor and the Subcontractors shall be in accordance with the Federal Labor Standards Provisions (see below) and Federal Wage Rates (see Wage Rates below) and General Prevailing Wage Determination made by the State of California, Director of Industrial Relations pursuant to California Labor Code Part 7, Chapter 1, Article 2, Sections 1770, 1773 and 1773.1, whichever is higher.

- 8.5.** A Contractor having 50 or more employees and its Subcontractors having 50 or more employees and who may be awarded a contract of \$50,000 or more will be required to maintain an affirmative action program, the standards for which are contained in the specifications.
- 8.6.** To be eligible for award, each Bidder shall comply with the affirmative action requirements which are contained in the specifications
- 8.7.** Women will be afforded equal opportunity in all areas of employment. However, the employment of women shall not diminish the standards of requirements for the employment of minorities.
- 9. PREVAILING WAGE RATES:** Pursuant to San Diego Municipal Code section 22.3019, construction, alteration, demolition, repair and maintenance work performed under this Contract is subject to State prevailing wage laws. For construction work performed under this Contract cumulatively exceeding \$25,000 and for alteration, demolition, repair and maintenance work performed under this Contract cumulatively exceeding \$15,000, the Contractor and its subcontractors shall comply with State prevailing wage laws including, but not limited to, the requirements listed below.
- 9.1. Compliance with Prevailing Wage Requirements.** Pursuant to sections 1720 through 1861 of the California Labor Code, the Contractor and its subcontractors shall ensure that all workers who perform work under this Contract are paid not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations (DIR). This includes work performed during the design and preconstruction phases of construction including, but not limited to, inspection and land surveying work.
- 9.1.1.** Copies of such prevailing rate of per diem wages are on file at the City and are available for inspection to any interested party on request. Copies of the prevailing rate of per diem wages also may be found at <http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>. Contractor and its subcontractors shall post a copy of the prevailing rate of per diem wages determination at each job site and shall make them available to any interested party upon request.
- 9.1.2.** The wage rates determined by the DIR refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, then the published rate of wage shall be in effect for the life of this Contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the DIR, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this Contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this Contract, each successive predetermined wage rate shall apply to this Contract on the date following the expiration date of the

previous wage rate. If the last of such predetermined wage rates expires during the life of this Contract, such wage rate shall apply to the balance of the Contract.

- 9.2. Penalties for Violations.** Contractor and its subcontractors shall comply with California Labor Code section 1775 in the event a worker is paid less than the prevailing wage rate for the work or craft in which the worker is employed. This shall be in addition to any other applicable penalties allowed under Labor Code sections 1720 – 1861.
- 9.3. Payroll Records.** Contractor and its subcontractors shall comply with California Labor Code section 1776, which generally requires keeping accurate payroll records, verifying and certifying payroll records, and making them available for inspection. Contractor shall require its subcontractors to also comply with section 1776. Contractor and its subcontractors shall submit weekly certified payroll records online via the City’s web-based Labor Compliance Program. Contractor is responsible for ensuring its subcontractors submit certified payroll records to the City.

 - 9.3.1.** Contractor their subcontractors shall also furnish records specified in Labor Code section 1776 directly to the Labor Commissioner in the manner required by Labor Code section 1771.4.
- 9.4. Apprentices.** Contractor and its subcontractors shall comply with California Labor Code sections 1777.5, 1777.6 and 1777.7 concerning the employment and wages of apprentices. Contractor is held responsible for the compliance of their subcontractors with sections 1777.5, 1777.6 and 1777.7.
- 9.5. Working Hours.** Contractor and their subcontractors shall comply with California Labor Code sections 1810 through 1815, including but not limited to: (i) restrict working hours on public works contracts to eight hours a day and forty hours a week, unless all hours worked in excess of 8 hours per day are compensated at not less than 1½ times the basic rate of pay; and (ii) specify penalties to be imposed on contractors and subcontractors of \$25 per worker per day for each day the worker works more than 8 hours per day and 40 hours per week in violation of California Labor Code sections 1810 through 1815.
- 9.6. Required Provisions for Subcontracts.** Contractor shall include at a minimum a copy of the following provisions in any contract they enter into with a subcontractor: California Labor Code sections 1771, 1771.1, 1775, 1776, 1777.5, 1810, 1813, 1815, 1860 and 1861.
- 9.7. Labor Code Section 1861 Certification.** Contractor in accordance with California Labor Code section 3700 is required to secure the payment of compensation of its employees and by signing this Contract, Contractor certifies that “I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract.”
- 9.8. Labor Compliance Program.** The City has its own Labor Compliance Program authorized in August 2011 by the DIR. The City will withhold contract payments when payroll records are delinquent or deemed inadequate by the City or other governmental entity, or it has

been established after an investigation by the City or other governmental entity that underpayment(s) have occurred. For questions or assistance, please contact the City of San Diego's Prevailing Wage Unit at 858-627-3200.

- 9.9. Contractor and Subcontractor Registration Requirements.** This project is subject to compliance monitoring and enforcement by the DIR. A contractor or subcontractor shall not be qualified to bid on, be listed in a bid or proposal, subject to the requirements of section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.
- 9.9.1.** A Contractor's inadvertent error in listing a subcontractor who is not registered pursuant to Labor Code section 1725.5 in response to a solicitation shall not be grounds for filing a bid protest or grounds for considering the bid non-responsive provided that any of the following apply: (1) the subcontractor is registered prior to bid opening; (2) within twenty-four hours after the bid opening, the subcontractor is registered and has paid the penalty registration fee specified in Labor Code section 1725.5; or (3) the subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.
- 9.9.2.** By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration for themselves and all listed subcontractors to the City at the time of bid or proposal due date or upon request.
- 9.10. Stop Order.** For Contractor or its subcontractors engaging in the performance of any public work contract without having been registered in violation of Labor Code sections 1725.5 or 1771.1, the Labor Commissioner shall issue and serve a stop order prohibiting the use of the unregistered contractors or unregistered subcontractor(s) on ALL public works until the unregistered contractor or unregistered subcontractor(s) is registered. Failure to observe a stop order is a misdemeanor.
- 9.11. List of all Subcontractors.** The City may ask Contractor for the most current list of subcontractors (regardless of tier), along with their DIR registration numbers, utilized on this Agreement at any time during performance of this contract, and Contractor shall provide the list within ten (10) working days of the City's request. Additionally, Contractor shall provide the City with a complete list of all subcontractors utilized on this contract (regardless of tier), within ten working days of the completion of the contract, along with their DIR registration numbers. The City shall withhold final payment to Contractor until at least 30 days after this information is provided to the City.

9.12. Exemptions for Small Projects. There are limited exemptions for installation, alteration, demolition, or repair work done on projects of \$25,000 or less. The Contractor shall still comply with Labor Code sections 1720 et. seq. The only recognized exemptions are listed below:

9.12.1. Registration. The Contractor will not be required to register with the DIR for small projects. (Labor Code section 1771.1)

9.12.2. Certified Payroll Records. The records required in Labor Code section 1776 shall be required to be kept and submitted to the City of San Diego, but will not be required to be submitted online with the DIR directly. The Contractor will need to keep those records for at least three years following the completion of the Contract. (Labor Code section 1771.4).

9.12.3. List of all Subcontractors. The Contractor shall not be required to hire only registered subcontractors and is exempt from submitting the list of all subcontractors that is required in section 9.11 above. (Labor code section 1773.3).

10. DAVIS-BACON WAGE RATES AND PROVISIONS:

10.1. WAGE RATES This contract shall be subject to the following Davis-Bacon Wage Decisions:

General Decision Number: CA20200001 10/30/2020

Superseded General Decision Number: CA20190001

State: California

Construction Types: Building, Heavy (Heavy and Dredging),
Highway and Residential

County: San Diego County in California.

BUILDING CONSTRUCTION PROJECTS; DREDGING PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); HIGHWAY CONSTRUCTION PROJECTS; RESIDENTIAL CONSTRUCTION PROJECTS (consisting of single family homes and apartments up to and including 4 stories)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor

must pay all workers in any classification listed on this wage determination at least \$10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/03/2020
1	01/10/2020

Modification Number Publication Date

2 01/31/2020
 3 03/06/2020
 4 04/17/2020
 5 05/29/2020
 6 06/05/2020
 7 07/03/2020
 8 07/17/2020
 9 07/24/2020
 1 07/31/2020
 11 08/07/2020
 12 08/14/2020
 13 08/21/2020
 14 08/28/2020
 15 09/04/2020
 16 09/25/2020
 17 10/02/2020
 18 10/09/2020
 19 10/16/2020
 20 10/23/2020
 21 10/30/2020

ASBE0005-002 07/06/2020

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems)..	\$ 45.39	23.74
Fire Stop Technician (Application of Firestopping Materials for wall openings and penetrations in walls, floors, ceilings and curtain walls).....	\$ 28.92	18.73

 ASBE0005-004 07/01/2019

Asbestos Removal
 worker/hazardous material
 handler (Includes
 preparation, wetting,
 stripping, removal,
 scrapping, vacuuming, bagging
 and disposing of all

	Rates	Fringes
insulation materials from mechanical systems, whether they contain asbestos or not).	\$ 20.63	12.17

BOIL0092-003 03/01/2018

	Rates	Fringes
BOILERMAKER.....	\$ 44.07	33.52

BRCA0004-008 11/01/2018

	Rates	Fringes
BRICKLAYER; MARBLE SETTER..	\$ 38.21	17.44

BRCA0018-004 06/01/2019

	Rates	Fringes
MARBLE FINISHER.....	\$ 33.43	14.11
TILE FINISHER.....	\$ 28.23	12.65
TILE LAYER.....	\$ 40.07	18.36

BRCA0018-010 09/01/2020

	Rates	Fringes
TERRAZZO FINISHER.....	\$ 33.66	14.20
TERRAZZO WORKER/SETTER.....	\$ 41.60	14.73

CARP0409-002 07/01/2016

	Rates	Fringes
Diver		
(1) Wet.....	\$ 712.48	17.03
(2) Standby.....	\$ 356.24	17.03
(3) Tender.....	\$ 348.24	17.03
(4) Assistant Tender....	\$ 324.24	17.03

Amounts in "'Rates' column are per day

CARP0409-008 08/01/2010

	Rates	Fringes
Modular Furniture Installer...	\$ 17.00	7.41

* CARP0547-001 07/01/2018

	Rates	Fringes
CARPENTER		
(1) Bridge.....	\$ 42.34	19.17
(2) Commercial Building.	\$ 37.11	19.17
(3) Heavy & Highway.....	\$ 42.21	19.17
(4) Residential Carpenter..	\$ 29.69	19.17
(5) Residential Insulation Installer....	\$ 18.00	8.16
MILLWRIGHT.....	\$ 42.71	19.17
PILEDRIVERMAN.....	\$ 42.34	19.17

CARP0547-002 07/01/2017

	Rates	Fringes
Drywall		
(1) Work on wood framed construction of single family residences, apartments or condominiums under four stories		
Drywall Installer/Lather.	\$ 22.95	18.85
Drywall Stocker/Scrapper.	\$ 12.50	12.27
(2) All other work		
Drywall Installer/Lather.	\$ 32.00	17.63
Drywall Stocker/Scrapper.	\$ 12.50	12.27

ELEC0569-001 06/01/2020

	Rates	Fringes
Electricians (Tunnel Work)		
Cable Splicer.....	\$ 51.38	3%+14.88

	Rates	Fringes
Electrician.....	\$ 50.63	3%+14.88
Electricians: (All Other Work, Including 4 Stories Residential)		
Cable Splicer.....	\$ 45.75	3%+14.88
Electrician.....	\$ 45.00	3%+14.88

ELEC0569-004 06/01/2020

	Rates	Fringes
ELECTRICIAN (Sound & Communications Sound Technician).....	\$ 33.95	13.55
SCOPE OF WORK Assembly, installation, operation, service and maintenance of components or systems as used in closed circuit television, amplified master television distribution, CATV on private property, intercommunication, burglar alarm, fire alarm, life support and all security alarms, private and public telephone and related telephone interconnect, public address, paging, audio, language, electronic, background music system less than line voltage or any system acceptable for class two wiring for private, commercial, or industrial use furnished by leased wire, frequency modulation or other recording devices, electrical apparatus by means of which electricity is applied to the amplification, transmission, transference, recording or reproduction of voice, music, sound, impulses and video. Excluded from this Scope of Work - transmission, service and maintenance of background music. All of the above shall include the installation and transmission over fiber optics.		

ELEC0569-005 06/01/2020

	Rates	Fringes
Sound & Communications Sound Technician.....	\$ 33.95	13.55
SCOPE OF WORK Assembly, installation, operation, service and maintenance of components or systems as used in closed circuit television, amplified master television distribution, CATV on private property, intercommunication, burglar alarm, fire alarm, life support and all security alarms, private and public telephone and related telephone interconnect, public address, paging, audio, language, electronic, background music system less than line voltage or any system acceptable for class two wiring for private, commercial, or industrial use furnished by leased wire, frequency modulation or other recording devices, electrical apparatus by means of which		

electricity is applied to the amplification, transmission, transference, recording or reproduction of voice, music, sound, impulses and video. Excluded from this Scope of Work - transmission, service and maintenance of background music. All of the above shall include the installation and transmission over fiber optics.

SOUND TECHNICIAN: Terminating, operating and performing final check-out

 ELEC0569-006 10/01/2018

Work on street lighting; traffic signals; and underground systems and/or established easements outside of buildings
 Traffic signal, street light and underground work

	Rates	Fringes
Utility Technician #1..\$	32.44	8.67
Utility Technician #2..\$	27.05	8.51

STREET LIGHT & TRAFFIC SIGNAL WORK:

UTILITY TECHNICIAN #1: Installation of street lights and traffic signals, including electrical circuitry, programmable controller, pedestal-mounted electrical meter enclosures and laying of pre-assembled cable in ducts. The layout of electrical systems and communication installation including proper position of trench depths, and radius at duct banks, location for manholes, street lights and traffic signals.

UTILITY TECHNICIAN #2: Distribution of material at jobsite, installation of underground ducts for electrical, telephone, cable TV land communication systems. The setting, leveling, grounding and racking of precast manholes, handholes and transformer pads.

 ELEC0569-008 08/31/2020

	Rates	Fringes
ELECTRICIAN (Residential, 1-3 Stories).....\$	35.74	7.68

ELEC1245-001 06/01/2020

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer..	\$ 59.14	20.78
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment).....	\$ 47.24	19.59
(3) Groundman.....	\$ 36.12	19.19
(4) Powderman.....	\$ 51.87	18.79

HOLIDAYS: New Year's Day, M.L. King Day, Memorial Day,
Independence Day, Labor Day, Veterans Day, Thanksgiving Day
and day after Thanksgiving, Christmas Day

ELEV0018-001 01/01/2020

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 57.40	34.765+a+b

FOOTNOTE:

- a. PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service.
- b. PAID HOLIDAYS: New Years Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Friday after Thanksgiving, and Christmas Day.

ENGI0012-003 07/01/2020

	Rates	Fringes
OPERATOR: Power Equipment (All Other Work)		
GROUP 1.....	\$ 48.25	27.20
GROUP 2.....	\$ 49.03	27.20
GROUP 3.....	\$ 49.32	27.20
GROUP 4.....	\$ 50.81	27.20
GROUP 5.....	\$ 48.96	25.25
GROUP 6.....	\$ 51.03	27.20
GROUP 8.....	\$ 51.14	27.20
GROUP 9.....	\$ 49.29	25.25
GROUP 10.....	\$ 51.26	27.20
GROUP 11.....	\$ 49.41	25.25
GROUP 12.....	\$ 51.43	27.20

	Rates	Fringes
GROUP 13.....	\$ 51.53	27.20
GROUP 14.....	\$ 51.56	27.20
GROUP 15.....	\$ 51.64	27.20
GROUP 16.....	\$ 51.76	27.20
GROUP 17.....	\$ 51.93	27.20
GROUP 18.....	\$ 52.03	27.20
GROUP 19.....	\$ 52.14	27.20
GROUP 20.....	\$ 52.26	27.20
GROUP 21.....	\$ 52.43	27.20
GROUP 22.....	\$ 52.53	27.20
GROUP 23.....	\$ 52.64	27.20
GROUP 24.....	\$ 52.76	27.20
GROUP 25.....	\$ 52.93	27.20
OPERATOR: Power Equipment (Cranes, Piledriving & Hoisting)		
GROUP 1.....	\$ 49.60	27.20
GROUP 2.....	\$ 50.38	27.20
GROUP 3.....	\$ 50.67	27.20
GROUP 4.....	\$ 50.81	27.20
GROUP 5.....	\$ 51.03	27.20
GROUP 6.....	\$ 51.14	27.20
GROUP 7.....	\$ 51.26	27.20
GROUP 8.....	\$ 51.43	27.20
GROUP 9.....	\$ 51.60	27.20
GROUP 10.....	\$ 52.60	27.20
GROUP 11.....	\$ 53.60	27.20
GROUP 12.....	\$ 54.60	27.20
GROUP 13.....	\$ 55.60	27.20
OPERATOR: Power Equipment (Tunnel Work)		
GROUP 1.....	\$ 50.10	27.20
GROUP 2.....	\$ 50.88	27.20
GROUP 3.....	\$ 51.17	27.20
GROUP 4.....	\$ 51.31	27.20
GROUP 5.....	\$ 51.53	27.20
GROUP 6.....	\$ 51.64	27.20
GROUP 7.....	\$ 51.76	27.20

PREMIUM PAY:

\$3.75 per hour shall be paid on all Power Equipment Operator work on the following Military Bases: China Lake Naval Reserve, Vandenberg AFB, Point Arguello, Seely Naval Base, Fort Irwin, Nebo Annex Marine Base, Marine Corp Logistics Base Yermo, Edwards AFB, 29 Palms Marine Base and Camp Pendleton
Workers required to suit up and work in a hazardous material environment: \$2.00 per hour additional. Combination mixer and compressor operator on gunite work shall be classified as a concrete mobile mixer operator.

SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bargeman; Brakeman; Compressor operator; Ditch Witch, with seat or similar type equipment; Elevator operator-inside; Engineer Oiler; Forklift operator (includes loed, lull or similar types under 5 tons; Generator operator; Generator, pump or compressor plant operator; Pump operator; Signalman; Switchman

GROUP 2: Asphalt-rubber plant operator (nurse tank operator); Concrete mixer operator-skip type; Conveyor operator; Fireman; Forklift operator (includes loed, lull or similar types over 5 tons; Hydrostatic pump operator; oiler crusher (asphalt or concrete plant); Petromat laydown machine; PJU side dum jack; Screening and conveyor machine operator (or similar types); Skiploader (wheel type up to 3/4 yd. without attachment); Tar pot fireman; Temporary heating plant operator; Trenching machine oiler

GROUP 3: Asphalt-rubber blend operator; Bobcat or similar type (Skid steer); Equipment greaser (rack); Ford Ferguson (with dragtype attachments); Helicopter radioman (ground); Stationary pipe wrapping and cleaning machine operator

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or similar type); Boring machine operator; Boxman or mixerman (asphalt or concrete); Chip spreading machine operator; Concrete cleaning decontamination machine operator; Concrete Pump Operator (small portable); Drilling machine operator, small auger types (Texoma super economatic or similar types - Hughes 100 or 200 or similar types - drilling depth of 30' maximum); Equipment greaser (grease truck); Guard rail post driver operator; Highline cableway signalman; Hydra-hammer-aero stomper; Micro Tunneling (above ground tunnel); Power concrete curing machine operator; Power concrete saw operator; Power-driven jumbo form setter operator; Power sweeper operator; Rock Wheel Saw/Trencher; Roller operator (compacting); Screed operator (asphalt or concrete); Trenching machine operator (up to 6 ft.); Vacuum or much truck

GROUP 5: Equipment Greaser (Grease Truck/Multi Shift).

GROUP 6: Articulating material hauler; Asphalt plant engineer; Batch plant operator; Bit sharpener; Concrete joint machine operator (canal and similar type); Concrete planer operator; Dandy digger; Deck engine operator; Derrickman (oilfield type); Drilling machine operator, bucket or auger types (Calweld 100 bucket or similar types - Watson 1000 auger or similar types - Texoma 330, 500 or 600 auger or similar types - drilling depth of 45' maximum); Drilling machine operator; Hydrographic seeder machine operator (straw, pulp or seed), Jackson track maintainer, or similar type; Kalamazoo Switch tamper, or

similar type; Machine tool operator; Maginnis internal full slab vibrator, Mechanical berm, curb or gutter (concrete or asphalt); Mechanical finisher operator (concrete, Clary-Johnson-Bidwell or similar); Micro tunnel system (below ground); Pavement breaker operator (truck mounted); Road oil mixing machine operator; Roller operator (asphalt or finish), rubber-tired earth moving equipment (single engine, up to and including 25 yds. struck); Self-propelled tar pipelining machine operator; Skiploader operator (crawler and wheel type, over 3/4 yd. and up to and including 1-1/2 yds.); Slip form pump operator (power driven hydraulic lifting device for concrete forms); Tractor operator-bulldozer, tamper-scraper (single engine, up to 100 h.p. flywheel and similar types, up to and including D-5 and similar types); Tugger hoist operator (1 drum); Ultra high pressure waterjet cutting tool system operator; Vacuum blasting machine operator

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator; Backhoe operator (up to and including 3/4 yd.), small ford, Case or similar; Cast-in-place pipe laying machine operator; Combination mixer and compressor operator (gunite work); Compactor operator (self-propelled); Concrete mixer operator (paving); Crushing plant operator; Drill Doctor; Drilling machine operator, Bucket or auger types (Calweld 150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types - drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator; Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 yds. struck); Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Self-propelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 yds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or

similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bending machine operator; Trenching machine operator (over 6 ft. depth capacity, manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity): Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

GROUP 9: Heavy Duty Repairman

GROUP 10: Drilling machine operator, Bucket or auger types (Calweld 200 B bucket or similar types-Watson 3000 or 5000 auger or similar types-Texoma 900 auger or similar types-drilling depth of 105' maximum); Dual drum mixer, dynamic compactor LDC350 (or similar types); Monorail locomotive operator (diesel, gas or electric); Motor patrol-blade operator (single engine); Multiple engine tractor operator (Euclid and similar type-except Quad 9 cat.); Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Pneumatic pipe ramming tool and similar types; Prestressed wrapping machine operator; Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Rubber tired earth moving equipment operator (multiple engine, Euclid, caterpillar and similar over 25 yds. and up to 50 yds. struck), Tower crane repairman; Tractor loader operator (crawler and wheel type over 6-1/2 yds.); Woods mixer operator (and similar Pugmill equipment)

GROUP 11: Heavy Duty Repairman - Welder Combination, Welder - Certified.

GROUP 12: Auto grader operator; Automatic slip form operator; Drilling machine operator, bucket or auger types (Calweld, auger 200 CA or similar types - Watson, auger 6000 or similar types - Hughes Super Duty, auger 200 or similar types - drilling depth of 175' maximum); Hoe ram or similar with compressor; Mass excavator operator less tha 750 cu. yards; Mechanical finishing machine operator; Mobile form traveler operator; Motor patrol operator (multi-engine); Pipe mobile machine operator; Rubber-tired earth- moving equipment operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck); Rubber-tired self- loading scraper operator (paddle-wheel-auger type self-loading - two (2) or more units)

GROUP 13: Rubber-tired earth-moving equipment operator operating equipment with push-pull system (single engine, up to and including 25 yds. struck)

GROUP 14: Canal liner operator; Canal trimmer operator; Remote-control earth-moving equipment operator (operating a second piece of equipment: \$1.00 per hour additional); Wheel excavator operator (over 750 cu. yds.)

GROUP 15: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine-up to and including 25 yds. struck)

GROUP 16: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 17: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 50 cu. yds. struck); Tandem tractor operator (operating crawler type tractors in tandem - Quad 9 and similar type)

GROUP 18: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, up to and including 25 yds. struck)

GROUP 19: Rotex concrete belt operator (or similar types); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, up to and including 25 yds. struck)

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 21: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

GROUP 22: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, up to and including 25 yds. struck)

GROUP 23: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating with the tandem push-pull system (multiple engine, up to and including 25 yds. struck)

GROUP 24: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 25: Concrete pump operator-truck mounted; Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

CRANES, PILEDIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

GROUP 1: Engineer oiler; Fork lift operator (includes loed, lull or similar types)

GROUP 2: Truck crane oiler

GROUP 3: A-frame or winch truck operator; Ross carrier operator (jobsite)

GROUP 4: Bridge-type unloader and turntable operator; Helicopter hoist operator

GROUP 5: Hydraulic boom truck; Stinger crane (Austin-Western or similar type); Tugger hoist operator (1 drum)

GROUP 6: Bridge crane operator; Cretor crane operator; Hoist operator (Chicago boom and similar type); Lift mobile operator; Lift slab machine operator (Vagtborg and similar types); Material hoist and/or manlift operator; Polar gantry crane operator; Self Climbing scaffold (or similar

type); Shovel, backhoe, dragline, clamshell operator (over 3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

GROUP 7: Pedestal crane operator; Shovel, backhoe, dragline, clamshell operator (over 5 cu. yds. mrc); Tower crane repair; Tugger hoist operator (3 drum)

GROUP 8: Crane operator (up to and including 25 ton capacity); Crawler transporter operator; Derrick barge operator (up to and including 25 ton capacity); Hoist operator, stiff legs, Guy derrick or similar type (up to and including 25 ton capacity); Shovel, backhoe, dragline, clamshell operator (over 7 cu. yds., M.R.C.)

GROUP 9: Crane operator (over 25 tons and up to and including 50 tons mrc); Derrick barge operator (over 25 tons up to and including 50 tons mrc); Highline cableway operator; Hoist operator, stiff legs, Guy derrick or similar type (over 25 tons up to and including 50 tons mrc); K-crane operator; Polar crane operator; Self erecting tower crane operator maximum lifting capacity ten tons

GROUP 10: Crane operator (over 50 tons and up to and including 100 tons mrc); Derrick barge operator (over 50 tons up to and including 100 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 50 tons up to and including 100 tons mrc), Mobile tower crane operator (over 50 tons, up to and including 100 tons M.R.C.); Tower crane operator and tower gantry

GROUP 11: Crane operator (over 100 tons and up to and including 200 tons mrc); Derrick barge operator (over 100 tons up to and including 200 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 100 tons up to and including 200 tons mrc); Mobile tower crane operator (over 100 tons up to and including 200 tons mrc)

GROUP 12: Crane operator (over 200 tons up to and including 300 tons mrc); Derrick barge operator (over 200 tons up to and including 300 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 200 tons, up to and including 300 tons mrc); Mobile tower crane operator (over 200 tons, up to and including 300 tons mrc)

GROUP 13: Crane operator (over 300 tons); Derrick barge operator (over 300 tons); Helicopter pilot; Hoist operator, stiff legs, Guy derrick or similar type (over 300 tons); Mobile tower crane operator (over 300 tons)

TUNNEL CLASSIFICATIONS

GROUP 1: Skiploader (wheel type up to 3/4 yd. without attachment)

GROUP 2: Power-driven jumbo form setter operator

GROUP 3: Dinkey locomotive or motorperson (up to and including 10 tons)

GROUP 4: Bit sharpener; Equipment greaser (grease truck); Slip form pump operator (power-driven hydraulic lifting device for concrete forms); Tugger hoist operator (1 drum); Tunnel locomotive operator (over 10 and up to and including 30 tons)

GROUP 5: Backhoe operator (up to and including 3/4 yd.); Small Ford, Case or similar; Drill doctor; Grouting machine operator; Heading shield operator; Heavy-duty repairperson; Loader operator (Athey, Euclid, Sierra and similar types); Mucking machine operator (1/4 yd., rubber-tired, rail or track type); Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pneumatic heading shield (tunnel); Pumpcrete gun operator; Tractor compressor drill combination operator; Tugger hoist operator (2 drum); Tunnel locomotive operator (over 30 tons)

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

ENGINEERS ZONES

\$1.00 additional per hour for all of IMPERIAL County and the portions of KERN, RIVERSIDE & SAN BERNARDINO Counties as defined below:

That area within the following Boundary: Begin in San Bernardino County, approximately 3 miles NE of the intersection of I-15 and the California State line at that point which is the NW corner of Section 1, T17N,m R14E, San Bernardino Meridian. Continue W in a straight line to that point which is the SW corner of the northwest quarter of Section 6, T27S, R42E, Mt. Diablo Meridian. Continue North to the intersection with the Inyo County Boundary at that point which is the NE corner of the western half of the northern quarter of Section 6, T25S, R42E, MDM. Continue W along the Inyo and San Bernardino County boundary until the intersection with Kern County, as that point which is the SE corner of Section 34, T24S, R40E, MDM. Continue W along the Inyo and Kern County boundary until the intersection with Tulare County, at that point which is the SW corner of the SE quarter of Section 32, T24S, R37E, MDM. Continue W along the Kern and Tulare County boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM. Continue S to SW corner of T11N, R17W, SBM. Continue E along

south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SBM to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1S, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state line. Follow the California state line west to Arizona state line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1, T17N, R14E, SBM

\$1.00 additional per hour for portions of SAN LUIS OBISPO, KERN, SANTA BARBARA & VENTURA as defined below:

That area within the following Boundary: Begin approximately 5 miles north of the community of Cholame, on the Monterey County and San Luis Obispo County boundary at the NW corner of T25S, R16E, Mt. Diablo Meridian. Continue south along the west side of R16E to the SW corner of T30S, R16E, MDM. Continue E to SW corner of T30S, R17E, MDM. Continue S to SW corner of T31S, R17E, MDM. Continue E to SW corner of T31S, R18E, MDM. Continue S along West side of R18E, MDM as it crosses into San Bernardino Meridian numbering area and becomes R30W. Follow the west side of R30W, SBM to the SW corner of T9N, R30W, SBM. Continue E along the south edge of T9N, SBM to the Santa Barbara County and Ventura County boundary at that point which is the SW corner of Section 34. T9N, R24W, SBM, continue S along the Ventura County line to that point which is the SW corner of the SE quarter of Section 32, T7N, R24W, SBM. Continue E along the south edge of T7N, SBM to the SE corner to T7N, R21W, SBM. Continue N along East side of R21W, SBM to Ventura County and Kern County boundary at the NE corner of T8N, R21W. Continue W along the Ventura County and Kern County boundary to the SE corner of T9N, R21W. Continue North along the East edge of R21W, SBM to the NE corner of T12N, R21W, SBM. Continue West along the north edge of T12N, SBM to the SE corner of T32S, R21E, MDM. [T12N SBM is a thin strip between T11N SBM and T32S MDM]. Continue North along the East side of R21E, MDM to the Kings County and Kern County border at the NE corner of T25S, R21E, MDM, continue West along the Kings County and Kern County Boundary until the intersection of San Luis Obispo County. Continue west along the Kings County and San Luis Obispo County boundary until the intersection with Monterey County. Continue West along the Monterey County and San Luis Obispo County boundary to the beginning point at the NW corner of T25S, R16E, MDM.

\$2.00 additional per hour for INYO and MONO Counties and the Northern portion of SAN BERNARDINO County as defined below:

That area within the following Boundary: Begin at the intersection of the northern boundary of Mono County and the California state line at the point which is the center of Section 17, T10N, R22E, Mt. Diablo Meridian. Continue S then SE along the entire western boundary of Mono County, until it reaches Inyo County at the point which is the NE corner of the Western half of the NW quarter of Section 2, T8S, R29E, MDM. Continue SSE along the entire western boundary of Inyo County, until the intersection with Kern County at the point which is the SW corner of the SE 1/4 of Section 32, T24S, R37E, MDM. Continue E along the Inyo and Kern County boundary until the intersection with San Bernardino County at that point which is the SE corner of section 34, T24S, R40E, MDM. Continue E along the Inyo and San Bernardino County boundary until the point which is the NE corner of the Western half of the NW quarter of Section 6, T25S, R42E, MDM. Continue S to that point which is the SW corner of the NW quarter of Section 6, T27S, R42E, MDM. Continue E in a straight line to the California and Nevada state border at the point which is the NW corner of Section 1, T17N, R14E, San Bernardino Meridian. Then continue NW along the state line to the starting point, which is the center of Section 18, T10N, R22E, MDM.

REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

 ENGI0012-004 08/01/2020

	Rates	Fringes
OPERATOR: Power Equipment (DREDGING)		
(1) Leverman.....	\$ 56.40	30.00
(2) Dredge dozer.....	\$ 50.43	30.00
(3) Deckmate.....	\$ 50.32	30.00
(4) Winch operator (stern winch on dredge).....	\$ 49.77	30.00
(5) Fireman-Oiler, Deckhand, Bargeman, Leveehand.....	\$ 49.23	30.00
(6) Barge Mate.....	\$ 49.84	30.00

 IRON0433-006 07/01/2020

	Rates	Fringes
IRONWORKER		
Fence Erector.....	\$ 34.58	24.81
Ornamental, Reinforcing and Structural.....	\$ 41.00	33.45

PREMIUM PAY:

\$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland, Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

\$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base, Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center

\$2.00 additional per hour at the following locations:

Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock

LABO0089-001 07/01/2020

	Rates	Fringes
LABORER (BUILDING and all other Residential Construction)		
Group 1.....	\$ 34.18	20.48
Group 2.....	\$ 34.86	20.48
Group 3.....	\$ 35.57	20.48
Group 4.....	\$ 36.37	20.48
Group 5.....	\$ 38.30	20.48
LABORER (RESIDENTIAL CONSTRUCTION - See definition below)		
(1) Laborer.....	\$ 30.82	18.80
(2) Cleanup, Landscape, Fencing (Chain Link & Wood).	\$ 29.53	18.80

RESIDENTIAL DEFINITION: Wood or metal frame construction of single family residences, apartments and condominiums - excluding (a) projects that exceed three stories over a garage level, (b) any utility work such as telephone, gas, water, sewer and other utilities and (c) any fine grading work, utility work or paving work in the future street and public right-of-way; but including all rough grading work at the job site behind the existing right of way

LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete Screeding for Rought Strike-off; Concrete, water curing;

Demolition laborer; Flagman; Gas, oil and/or water pipeline laborer; General Laborer; General clean-up laborer; Landscape laborer; Jetting laborer; Temporary water and and decks); air lines laborer; Material hoseman (walls, slabs, floors Plugging, filling of Shee-bolt holes; Dry packing of concrete ; Railroad maintenance, Repair Trackman and road beds, Streetcar and railroad construction trac laborers; Slip form raisers; Slurry seal crews (mixer operator, applicator operator, squeegee man, Shuttle man, top man), filling of cracks by any method on any surface; Tarman and mortar man; Tool crib or tool house laborer; Window cleaner; Wire Mesh puling-all concrete pouring operations

GROUP 2: Asphalt Shoveler; Cement Dumper (on 1 yard or larger mixer and handling bulk cement); Cesspool digger and installer; Chucktender; Chute man, pouring concrete, the handling of the cute from ready mix trucks, such as walls, slabs, decks, floors, foundations, footings, curbs, gutters and sidewalks; Concrete curer-impervious membrane and form oiler; Cutting torch operator (demoliton); Guinea chaser; Headboard man-asphlt; Laborer, packing rod steel and pans; membrane vapor barrier installer; Power broom sweepers (small); Riiprap, stonepaver, placing stone or wet sacked concrete; Roto scraper and tiller; Tank sealer and cleaner; Tree climber, faller, chain saw operator, Pittsburgh Chipper and similar type brush shredders; Underground laborers, including caisson bellower

GROUP 3: Buggymobile; Concrete cutting torch; Concrete cutting torch; Concrete pile cutter; Driller, jackhammer, 2 1/2 feet drill steel or longer; Dri Pak-it machine; High sealer (including drilling of same); Hydro seeder and similar type; Impact wrench, mult-plate; Kettleman, potmen and mean applying asphalt, lay-kold, creosote, line caustic and similar type materials (applying means applying, dipping, brushing or handling of such materials for pipe wrapping and waterproofing); Operators of pneumatic, gas, electric tools, vibratring machines, pavement breakers, air blasting, come-along, and similar mechanical tools not separately classified herein; Pipelayers back up man coating, grouting, making of joints, sealing, caulking, diapering and inlcuding rubber gasket joints, pointing and any and all other services; Rotary Scarifier or multiple head concrete chipping scaarifier; Steel header board man and guideline setter; Tampers, Barko, Wacker and similar type; Trenching machine, handpropelled

GROUP 4: Asphalt raker, luterman, ironer, apshalt dumpman and asphalt spreader boxes (all types); Concrete core cutter (walls, floors or ceilings), Grinder or sander; Concrete saw man; cutting walls or flat work, scoring old or new concrete; Cribber, shorer, lagging, sheeting and trench bracing, hand-guided lagging hammer; Laser beam in

connection with laborer's work; Oversize concrete vibrator operator 70 pounds and over; Pipelayer performing all services in the laying, installation and all forms of connection of pipe from the point of receiving pipe in the ditch until completion of operation, including any and all forms of tubular material, whether pipe, metallic or non-metallic, conduit, and any other stationary type of tubular device used for the conveying of any substance or element, whether water, sewage, solid, gas, air or other product whatsoever and without regard to the nature of material from which the tubular material is fabricated; No joint pipe and stripping of same; Prefabricated manhole installer; Sandblaster (nozzleman), Porta shot-blast, water blasting

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Driller-all power drills, excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and any and all other types of mechanical drills without regard to the form of motive power.

 LABO0089-002 11/01/2019

	Rates	Fringes
LABORER (MASON TENDER)....	\$ 32.00	18.28

 LABO0089-004 07/01/2020

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
Laborers:		
Group 1.....	\$ 35.30	20.48
	Rates	Fringes
Group 2.....	\$ 35.76	20.48
Group 3.....	\$ 36.17	20.48
Group 4.....	\$ 37.01	20.48
Group 5.....	\$ 40.28	20.48

LABORER CLASSIFICATIONS

GROUP 1: Laborer: General or Construction Laborer, Landscape Laborer. Asphalt Rubber Material Loader. Boring Machine Tender (outside), Carpenter Laborer (cleaning, handling, oiling & blowing of panel forms and lumber), Concrete

Laborer, Concrete Screeding for rough strike-off, Concrete water curing. Concrete Curb & Gutter laborer, Certified Confined Space Laborer, Demolition laborer & Cleaning of Brick and lumber, Expansion Joint Caulking; Environmental Remediation, Monitoring Well, Toxic waste and Geotechnical Drill tender, Fine Grader, Fire Watcher, Limbers, Brush Loader, Pilers and Debris Handlers. flagman. Gas Oil and Water Pipeline Laborer. Material Hoseman (slabs, walls, floors, decks); Plugging, filling of shee bolt holes; Dry packing of concrete and patching; Post Holer Digger (manual); Railroad maintenance, repair trackman, road beds; Rigging & signaling; Scaler, Slip-Form Raisers, Filling cracks on any surface, tool Crib or Tool House Laborer, Traffic control (signs, barriers, barricades, delineator, cones etc.), Window Cleaner

GROUP 2: Asphalt abatement; Buggymobile; Cement dumper (on 1 yd. or larger mixers and handling bulk cement); Concrete curer, impervious membrane and form oiler; Chute man, pouring concrete; Concrete cutting torch; Concrete pile cutter; driller/Jackhammer, with drill steel 2 1/2 feet or longer; Dry pak-it machine; Fence erector; Pipeline wrapper, gas, oil, water, pot tender & form man; Grout man; Installation of all asphalt overlay fabric and materials used for reinforcing asphalt; Irrigation laborer; Kettleman-Potman hot mop, includes applying asphalt, lay-klold, creosote, lime caustic and similar tyhpes of materials (dipping, brushing, handling) and waterproofing; Membrane vapor barrier installer; Pipelayer backup man (coating, grouting, making of joints, sealing caulkiing, diapering including rubber basket joints, pointing); Rotary scarifier, multiple head concrete chipper; Rock slinger; Roto scraper & tiller; Sandblaster pot tender; Septic tank digger/installer; Tamper/wacker operator; Tank scaler & cleaner; Tar man & mortar man; Tree climber/faller, chainb saw operator, Pittsburgh chipper & similar type brush shredders.

GROUP 3: Asphalt, installation of all frabrics; Buggy Mobile Man, Bushing hammer; Compactor (all types), Concrete Curer - Impervious membrane, Form Oiler, Concrete Cutting Torch, Concrete Pile Cutter, Driller/Jackhammer with drill steel 2 1/2 ft or longer, Dry Pak-it machine, Fence erector including manual post hole digging, Gas oil or water Pipeline Wrapper - 6 ft pipe and over, Guradrail erector, Hydro seeder, Impact Wrench man (multi plate), kettleman-Potman Hot Mop includes applying Asphalt, Lay-Kold, Creosote, lime caustic and similar types of materials (dipping, brushing or handling) and waterproofing. Laser Beam in connection with Laborer work. High Scaler, Operators of Pneumatic Gas or Electric Tools, Vibrating Machines, Pavement Breakers, Air Blasting, Come-Alongs and similar mechanical tools, Remote-Controlled

Robotic Tools in connection with Laborers work. Pipelayer Backup Man (Coating, grouting, making of joints, sealing, caulking, diapering including rubber gasket joints, pointing and other services). Power Post Hole Digger, Rotary Scarifier (multiple head concrete chipper scarifier), Rock Slinger, Shot Blast equipment (8 to 48 inches), Steel Headerboard Man and Guideline Setter, Tamper/Wacker operator and similar types, Trenching Machine hand propelled.

GROUP 4: Any worker exposed to raw sewage. Asphalt Raker, Luteman, Asphalt Dumpman, Asphalt Spreader Boxes, Concrete Core Cutter, Concrete Saw Man, Cribber, Shorer, Head Rock Slinger. Installation of subsurface instrumentation, monitoring wells or points, remediation system installer; Laborer, asphalt-rubber distributor bootman; Oversize concrete vibrator operators, 70 pounds or over. Pipelayer, Prefabricated Manhole Installer, Sandblast Nozzleman (Water Blasting-Porta Shot Blast), Traffic Lane Closure.

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Horizontal directional driller, Boring system, Electronic tracking, Driller: all power drills excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and all other types of mechanical drills without regard to form of motive power. Environmental remediation, Monitoring well, Toxic waste and Geotechnical driller, Toxic waste removal. Welding in connection with Laborer's work.

LABO0300-005 01/01/2018

	Rates	Fringes
Asbestos Removal Laborer...	\$ 33.19	17.78

SCOPE OF WORK: Includes site mobilization, initial site cleanup, site preparation, removal of asbestos-containing material and toxic waste, encapsulation, enclosure and disposal of asbestos- containing materials and toxic waste by hand or with equipment or machinery; scaffolding, fabrication of temporary wooden barriers and assembly of decontamination stations.

LABO0345-001 07/01/2020

	Rates	Fringes
LABORER (GUNITE)		
GROUP 1.....	\$ 45.05	19.62
GROUP 2.....	\$ 44.10	19.62
GROUP 3.....	\$ 40.56	19.62

FOOTNOTE: GUNITE PREMIUM PAY: Workers working from a Bosn'n's Chair or suspended from a rope or cable shall receive 40 cents per hour above the foregoing applicable classification rates. Workers doing gunite and/or shotcrete work in a tunnel shall receive 35 cents per hour above the foregoing applicable classification rates, paid on a portal-to-portal basis. Any work performed on, in or above any smoke stack, silo, storage elevator or similar type of structure, when such structure is in excess of 75'-0" above base level and which work must be performed in whole or in part more than 75'-0" above base level, that work performed above the 75'-0" level shall be compensated for at 35 cents per hour above the applicable classification wage rate.

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Rodmen, Nozzlemen

GROUP 2: Gunmen

GROUP 3: Reboundmen

LABO1184-001 07/01/2020

Laborers: (HORIZONTAL DIRECTIONAL DRILLING)

	Rates	Fringes
(1) Drilling Crew Laborer...	\$ 37.85	15.99
(2) Vehicle Operator/Hauler.	\$ 38.02	15.99
(3) Horizontal Directional Drill Operator.....	\$ 39.87	15.99
(4) Electronic Tracking Locator.....	\$ 41.87	15.99

Laborers: (STRIPING/SLURRY SEAL)

GROUP 1.....	\$ 39.06	19.01
GROUP 2.....	\$ 40.36	19.01
GROUP 3.....	\$ 42.37	19.01
GROUP 4.....	\$ 44.11	19.01

LABORERS - STRIPING CLASSIFICATIONS

GROUP 1: Protective coating, pavement sealing, including repair and filling of cracks by any method on any surface in parking lots, game courts and playgrounds; carstops; operation of all related machinery and equipment; equipment repair technician

GROUP 2: Traffic surface abrasive blaster; pot tender - removal of all traffic lines and markings by any method (sandblasting, waterblasting, grinding, etc.) and

preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

GROUP 3: Traffic delineating device applicator: Layout and application of pavement markers, delineating signs, rumble and traffic bars, adhesives, guide markers, other traffic delineating devices including traffic control. This category includes all traffic related surface preparation (sandblasting, waterblasting, grinding) as part of the application process. Traffic protective delineating system installer: removes, relocates, installs, permanently affixed roadside and parking delineation barricades, fencing, cable anchor, guard rail, reference signs, monument markers; operation of all related machinery and equipment; power broom sweeper

GROUP 4: Striper: layout and application of traffic stripes and markings; hot thermo plastic; tape traffic stripes and markings, including traffic control; operation of all related machinery and equipment

LABO1414-003 08/05/2020

	Rates	Fringes
LABORER		
PLASTER CLEAN-UP LABORER....	\$ 36.03	21.01
PLASTER TENDER.....	\$ 38.58	21.01

Work on a swing stage scaffold: \$1.00 per hour additional.

Work at Military Bases - \$3.00 additional per hour:
 Coronado Naval Amphibious Base, Fort Irwin, Marine Corps Air Station-29 Palms, Imperial Beach Naval Air Station, Marine Corps Logistics Supply Base, Marine Corps Pickle Meadows, Mountain Warfare Training Center, Naval Air Facility-Seeley, North Island Naval Air Station, Vandenberg AFB.

PAIN0036-001 07/01/2020

	Rates	Fringes
Painters: (Including Lead Abatement)		
(1) Repaint (excludes San Diego County).....	\$ 29.59	17.12
(2) All Other Work.....	\$ 33.12	17.24

REPAINT of any previously painted structure. Exceptions: work involving the aerospace industry, breweries, commercial recreational facilities, hotels which operate commercial establishments as part of hotel service, and sports facilities.

 PAIN0036-010 10/01/2020

	Rates	Fringes
DRYWALL FINISHER/TAPER		
(1) Building & Heavy Construction.....	\$ 36.69	18.90
(2) Residential Construction (Wood frame apartments, single family homes and multi-duplexes up to and including four stories).....	\$ 27.11	17.51

 PAIN0036-012 10/01/2020

	Rates	Fringes
GLAZIER.....	\$ 45.55	18.06

 PAIN0036-019 06/01/2020

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 32.27	17.24

 PLAS0200-005 08/07/2019

	Rates	Fringes
PLASTERER.....	\$ 43.73	16.03

NORTH ISLAND NAVAL AIR STATION, COLORADO NAVAL AMPHIBIOUS BASE, IMPERIAL BEACH NAVAL AIR STATION: \$3.00 additional per hour.

CEMENT MASON/CONCRETE FINISHER

GROUP 1.....	\$ 26.34	21.12
GROUP 2.....	\$ 27.99	21.12
GROUP 3.....	\$ 30.07	21.12

CEMENT MASONS - work inside the building line, meeting the following criteria:

GROUP 1: Residential wood frame project of any size; work classified as Type III, IV or Type V construction; interior tenant improvement work regardless the size of the project; any wood frame project of four stories or less.

GROUP 2: Work classified as type I and II construction

GROUP 3: All other work

 PLUM0016-006 09/01/2020

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER		
Camp Pendleton; Vandenberg Air Force Base.....	\$ 55.88	23.66
	Rates	Fringes
	Rates	Fringes
Work ONLY on new additions and remodeling of commercial buildings, bars, restaurants, and stores not to exceed 5,000 sq. ft. of floor space.....	\$ 50.70	23.73
Work ONLY on strip malls, light commercial, tenant improvement and remodel work.....	\$ 38.73	22.06
All other work except work on new additions and remodeling of bars, restaurant, stores and commercial buildings not to exceed 5,000 sq. ft. of floor space and work on strip malls, light commercial, tenant improvement and remodel work.....	\$ 52.28	24.71

PLUM0016-011 09/01/2020

	Rates	Fringes
PLUMBER/PIPEFITTER		
Residential.....	\$ 41.62	20.63

PLUM0345-001 09/01/2020

	Rates	Fringes
PLUMBER		
Landscape/Irrigation Fitter.	\$ 35.30	24.10
Sewer & Storm Drain Work....	\$ 39.39	21.48

ROOF0045-001 07/01/2020

	Rates	Fringes
ROOFER.....	\$ 36.25	9.24

SFCA0669-001 04/01/2020

	Rates	Fringes
SPRINKLER FITTER.....	\$ 41.57	24.10

SHEE0206-001 07/01/2020

	Rates	Fringes
SHEET METAL WORKER		
Camp Pendleton.....	\$ 42.62	29.55
Except Camp Pendleton.....	\$ 40.62	29.55
Sheet Metal Technician.....	\$ 30.51	9.49

SHEET METAL TECHNICIAN - SCOPE:

- a. Existing residential buildings, both single and multi-family, where each unit is heated and/or cooled by a separate system
- b. New single family residential buildings including tracts.
- c. New multi-family residential buildings, not exceeding five stories of living space in height, provided each unit is heated or cooled by a separate system. Hotels and motels are excluded.
- d. LIGHT COMMERCIAL WORK: Any sheet metal, heating and air conditioning work performed on a project where the total construction cost, excluding land, is under \$1,000,000
- e. TENANT IMPROVEMENT WORK: Any work necessary to finish interior spaces to conform to the occupants of commercial buildings, after completion of the building shell

TEAM0166-001 09/01/2019

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 18.90	34.69
GROUP 2.....	\$ 26.49	34.69
GROUP 3.....	\$ 26.69	34.69
GROUP 4.....	\$ 26.89	34.69
GROUP 5.....	\$ 27.09	34.69
GROUP 6.....	\$ 27.59	34.69
GROUP 7.....	\$ 29.09	34.69

FOOTNOTE: HAZMAT PAY: Work on a hazmat job, where hazmat certification is required, shall be paid, in addition to the classification working in, as follows: Levels A, B and C - +\$1.00 per hour. Workers shall be paid hazmat pay in increments of four (4) and eight (8) hours.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Fuel Man, Swamper

GROUP 2: 2-axle Dump Truck, 2-axle Flat Bed, Concrete Pumping Truck, Industrial Lift Truck, Motorized Traffic Control, Pickup Truck on Jobsite

GROUP 3: 2-axle Water Truck, 3-axle Dump Truck, 3-axle Flat Bed, Erosion Control Nozzlemans, Dump Crete Truck under 6.5 yd, Forklift 15,000 lbs and over, Prell Truck, Pipeline Work Truck Driver, Road Oil Spreader, Cement Distributor or Slurry Driver, Bootman, Ross Carrier

GROUP 4: Off-road Dump Truck under 35 tons 4-axles but less than 7-axles, Low-Bed Truck & Trailer, Transit Mix Trucks under 8 yd, 3-axle Water Truck, Erosion Control Driver, Grout Mixer Truck, Dump Crete 6.5yd and over, Dumpster Trucks, DW 10, DW 20 and over, Fuel Truck and Dynamite, Truck Greaser, Truck Mounted Mobile Sweeper 2-axle Winch Truck

GROUP 5: Off-road Dump Truck 35 tons and over, 7-axles or more, Transit Mix Trucks 8 yd and over, A-Frame Truck, Swedish Cranes

GROUP 6: Off-Road Special Equipment (including but not limited to Water Pull Tankers, Athey Wagons, DJB, B70 Wuclids or like Equipment)

GROUP 7: Repairman

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

(1) Minimum wages.

- (i) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in § 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers. Sub recipients may obtain wage determinations from the U.S. Department of Labor's web site, www.dol.gov.

- (ii) (A) The sub recipient(s), on behalf of EPA, shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The State award official shall approve a request for an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

- (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the sub recipient(s) agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), documentation of the action taken and the request, including the local wage determination shall be sent by the sub recipient (s) to the State award official. The State award official will transmit the request, to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210 and to the EPA DB Regional Coordinator concurrently. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification request within 30 days of receipt and so advise the State award official or will notify the State award official within the 30-day period that additional time is necessary.

(C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the sub recipient(s) do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the award official shall refer the request and the local wage determination, including the views of all interested parties and the recommendation of the State award official, to the Administrator for determination. The request shall be sent to the EPA DB Regional Coordinator concurrently. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt of the request and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii)(B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

- (iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an

hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

(2) Withholding. The sub recipient(s), shall upon written request of the EPA Award Official or an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the (Agency) may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

(3) Payrolls and basic records.

(i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in

section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii) (A) The contractor shall submit weekly, for each week in which any contract work is performed, a copy of all payrolls to the sub recipient, that is, the entity that receives the sub-grant or loan from the State capitalization grant recipient. Such documentation shall be available on request of the State recipient or EPA. As to each payroll copy received, the sub recipient shall provide written confirmation in a form satisfactory to the State indicating whether or not the project is in compliance with the requirements of 29 CFR 5.5(a)(1) based on the most recent payroll copies for the specified week. The payrolls shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on the weekly payrolls. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <https://www.dol.gov/agencies/whd/government-contracts/construction/payroll-certification> or its successor site.

The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the sub recipient(s) for transmission to the State or EPA if requested by EPA, the State, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sub recipient(s).

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent

who pays or supervises the payment of the persons employed under the contract and shall certify the following:

- (1) That the payroll for the payroll period contains the information required to be provided under § 5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under § 5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;
- (2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;
- (3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a)(3)(ii)(B) of this section.

(D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

- (iii) The contractor or subcontractor shall make the records required under paragraph (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the State, EPA or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency or State may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required

records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

(4) Apprentices and trainees

- (i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or sub contractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

- (ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
- (iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended and 29 CFR part 30.

(5) Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

(6) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the EPA determines may be appropriate, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

(7) Contract termination; debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

(8) Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

(9) Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and sub recipient(s), State, EPA, the U.S. Department of Labor, or the employees or their representatives.

(10) Certification of eligibility.

- (i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

4. Contract Provision for Contracts in Excess of \$100,000.

(a) Contract Work Hours and Safety Standards Act. The sub recipient shall insert the following clauses set forth in paragraphs (a)(1), (2), (3), and (4) of this section in full in any contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by Item 3, above or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

- (i) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less

than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

- (ii) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (a)(1) of this section the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (a)(1) of this section, in the sum of \$25 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (a)(1) of this section.
- (iii) Withholding for unpaid wages and liquidated damages. The sub recipient, upon written request of the EPA Award Official or an authorized representative of the Department of Labor, shall withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.
- (iv) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (a)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (a)(1) through (4) of this section.

- (b) In addition to the clauses contained in Item 3, above, in any contract subject only to the Contract Work Hours and Safety Standards Act and not to any of the other statutes cited in 29 CFR 5.1, the Sub recipient shall insert a clause requiring that the contractor or subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall preserve them for a

period of three years from the completion of the contract for all laborers and mechanics, including guards and watchmen, working on the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid.

Further, the Sub recipient shall insert in any such contract a clause providing that the records to be maintained under this paragraph shall be made available by the contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the (write the name of agency) and the Department of Labor, and the contractor or subcontractor will permit such representatives to interview employees during working hours on the job.

5. Compliance Verification

- (a) The sub recipient shall periodically interview a sufficient number of employees entitled to DB prevailing wages (covered employees) to verify that contractors or subcontractors are paying the appropriate wage rates. As provided in 29 CFR 5.6(a)(3), all interviews must be conducted in confidence. The sub recipient must use Standard Form 1445 (SF 1445) or equivalent documentation to memorialize the interviews. Copies of the SF 1445 are available from EPA on request.
- (b) The sub recipient shall establish and follow an interview schedule based on its assessment of the risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. Sub recipients must conduct more frequent interviews if the initial interviews or other information indicated that there is a risk that the contractor or subcontractor is not complying with DB.

Sub recipients shall immediately conduct interviews in response to an alleged violation of the prevailing wage requirements. All interviews shall be conducted in confidence.

- (c) The sub recipient shall periodically conduct spot checks of a representative sample of weekly payroll data to verify that contractors or subcontractors are paying the appropriate wage rates. The sub recipient shall establish and follow a spot check schedule based on its assessment of the risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. At a minimum, if practicable, the sub recipient should spot check payroll data within two weeks of each contractor or subcontractor's submission of its initial payroll data and two weeks prior to the completion date the contract or subcontract. Sub recipients must conduct more frequent spot checks if the initial spot check or other information indicates that there is a risk that the contractor or subcontractor is not complying with DB. In addition, during the examinations the sub recipient shall verify evidence of fringe benefit plans and payments there under by contractors and subcontractors who claim credit for fringe benefit contributions.

- (d) The sub recipient shall periodically review contractors and subcontractors use of apprentices and trainees to verify registration and certification with respect to apprenticeship and training programs approved by either the U.S Department of Labor or a state, as appropriate, and that contractors and subcontractors are not using disproportionate numbers of, laborers, trainees and apprentices. These reviews shall be conducted in accordance with the schedules for spot checks and interviews described in Item 5(b) and (c) above.

- (e) Sub recipients must immediately report potential violations of the DB prevailing wage requirements to the EPA DB contact listed above and to the appropriate DOL Wage and Hour District Office listed at <http://www.dol.gov/whd/america2.htm>.

11. AGENCY SPECIFIC PROVISIONS:

Note: Failure to comply with these specifications e.g., taking the specified steps prior to Bid opening and submitting the forms with the Bid, will lead to the Bid being declared **non-responsive** and, therefore, shall be rejected.

11.1. EPA Requirements:

1. Federal Disadvantaged Business Enterprise (DBE) regulations apply to this project. (Reference 40 Code of Federal Regulations Part 33 - Participation by Disadvantaged Business Enterprises in U.S. Environmental Protection Agency Programs).
2. The responsive Bid shall conform to GFE to increase DBE awareness of procurement opportunities through race and gender neutral efforts. Race and gender neutral efforts are ones which increase awareness of contracting opportunities in general, including outreach, recruitment and technical assistance.
3. Bidder agrees that it will cooperate with and assist the City in fulfilling the DBE Good Faith Effort Requirement achieving "fair share objectives" and will exercise GFE to achieve such minimum participation of small, minority and women owned businesses. In particular, in submitting a bid, the Bidder shall, in the selection of Subcontractors, and Suppliers for the procurement of equipment, supplies, construction, and services related to the project, at a minimum, undertake the affirmative GFE steps.
4. In accordance with EPA's Program for Utilization of Small, Minority Disadvantaged and Women Business Enterprises in procurement under Federal assistance programs, the Contractor agrees to the applicable "fair share objectives" as specified in **Attachment D**.
5. The provisions in the Contract Documents have been incorporated to prevent unfair practices that adversely affect DBEs.
6. If a DBE Subcontractor fails to complete the Work under the subcontract for any reason, the Contractor shall employ the 6 GFE if soliciting a replacement Subcontractor. The Contractor shall employ the 6 GFE described below even if the Contractor has achieved its fair share objectives.
7. Good Faith Efforts:
 - a) The Contractor shall demonstrate that efforts were made to attract DBEs on this contract. The "Good Faith" effort requires the Contractor and any Subcontractors to take the steps listed in these specifications to assure that DBEs are used whenever possible as sources of supplies, construction, equipment, or services even if the Contractor has achieved its fair share objectives.
 - b) If the Contractor awards subcontracts, it shall require the Subcontractors to take the steps in these specifications.

- c) For the EPA defined GFE, see the steps below:
 - i. Ensure DBEs are made aware of contracting opportunities to the fullest extent practicable through outreach and recruitment activities. For Indian Tribal, State and Local and Government recipients, this will include placing DBEs on solicitation lists and soliciting them whenever they are potential sources.
 - ii. Make information on forthcoming opportunities available to DBEs and arrange time frames for contracts and establish delivery schedules, where the requirements permit, in a way that encourages and facilitates participation by DBEs in the competitive process. This includes posting solicitations for bids or proposals for a minimum of 30 Calendar Days (refer to 33 CFR 33.301) before the bid or proposal closing date.
 - iii. Consider in the contracting process whether firms competing for large contracts could subcontract with DBEs. For Indian Tribal, State and local Government recipients, this will include dividing total requirements when economically feasible into smaller tasks or quantities to permit maximum participation by DBEs in the competitive process. Include with the GFE documentation a completed copy of the form AA61, "List of Work Made Available".
 - iv. Encourage contracting with a consortium of DBEs when a contract is too large for one of these firms to handle individually.
 - v. Use the services and assistance of the U.S. Small Business Administration (SBA) and the Minority Business Development Agency (MBDA) of the Department of Commerce (DOC). See "DBE Potential Resources Centers" Section in a later part these specifications.
 - vi. If the Contractor awards Subcontracts, the Contractor shall take the steps in the paragraphs above.

11.2. California State Revolving Fund (CASRF) Requirements:

11.2.1. Refer to Subsection 11.1, "EPA Requirements" above and the following:

11.2.2. The Bidder shall take affirmative steps prior to Bid opening to assure that MBE's and WBE's are used whenever possible as sources of supplies, construction and services.

11.2.3. The affirmative steps are defined for contracts funded by the California State Water Resources Control Board as follows:

- 1. Utilization of US Small Business Administration and Minority Business Development Agency (MBDA) resources is required at no cost. These agencies offer several services, including Internet access to databases of DBEs.

2. For additional assistance, the Contractor can telephone the local offices of both agencies in their area (SBA Minority Enterprise Development Offices and DOC MBDA Regional Centers). The Internet web sites also include names, addresses, and phone or fax numbers of local SBA and MBDA centers. There are contact phone numbers listed in Step 3 that will assist you in reaching the 2 offices if the Internet is unavailable. Do not write to these sources.
3. The Contractor shall provide documentation that the local SBA/MBDA offices or web sites were notified of the contracting bid opportunity at least 30 Calendar Days prior to Bid opening and solicitation to DBE Subcontractors at least 15 Calendar Days prior to Bid opening. Documentation shall not only include the efforts to contact the information sources and list the Contract opportunity, but also the solicitation and response to the bid request.
4. Include qualified DBEs on solicitation lists and record the information. Solicitation shall be as broad as possible.
5. If DBE sources are not located, explain why and describe the efforts made.
6. The Contractor shall send invitations to at least 10 (or all, if less than 10) DBE vendors for each item of the Work referred by sources contacted. The invitations shall adequately specify the items for which bids are requested. The record of GFE shall indicate a real desire for a positive response, such as a certified mail receipt or a documented telephone conversation.
7. A regular letter or an unanswered telephone call is not an adequate "good faith" effort. A list of all Subcontractors, including the bidders not selected and non DBE Subcontractors, and bid amount for each item of the Work shall be submitted on Form AA62. If a low bid was not accepted, an explanation shall be provided.

11.2.4. See "DBE Potential Resources Centers" Section in a later part these specifications.

11.2.5. Annual DBE Utilization Reporting:

The Contractor shall report to the City on an annual basis, their utilization of Minority Business Enterprise and Women's Business Enterprise Subcontractors and Suppliers using California State Revolving Funds (CASRF) Form UR-334.

12. DBE POTENTIAL RESOURCES CENTERS:

- 12.1.** Utilization of US Small Business Administration and Minority Business Development Agency (MBDA) resources is required at no cost. These agencies offer several services, including Internet access to databases of DBEs.
- 12.2.** For additional assistance, the recipient or contractor can telephone the local offices of both agencies in their area (SBA Minority Enterprise Development Offices and DOC MBDA Regional Centers). The Internet web sites also include names, addresses, and phone or fax numbers of local SBA and MBDA centers. Do not write to these sources

- 12.3.** The Contractor shall provide documentation that the local SBA/MBDA offices or web sites were notified of the contracting bid opportunity at least 30 Calendar Days prior to Bid opening and solicitation to DBE subcontractors at least 15 Calendar Days prior to Bid opening. Documentation shall not only include the efforts to contact the information sources and list the Contract opportunity, but also the solicitation and response to the bid request.
- 12.4.** Include qualified DBEs on solicitation lists and record the information on Form AA63. Solicitation shall be as broad as possible.
- 12.5.** If DBE sources are not located, explain why and describe the efforts made.
- 12.6.** The Contractor shall send invitations to at least 10 (or all, if less than 10) DBE vendors for each item of work referred by sources contacted. The invitations shall adequately specify the items for which bids are requested. The record of "good faith" efforts shall indicate a real desire for a positive response, such as a certified mail receipt or a documented telephone conversation.
- 12.7.** A regular letter or an unanswered telephone call is not an adequate "good faith" effort. A list of all sub-bidders, including the bidders not selected and non DBE Subcontractors, and bid amount for each item of the Work shall be submitted on Form AA62. If a low bid was not accepted, an explanation shall be provided.
- 12.8.** Federal Agencies (must be contacted and solicitations posted on their websites):

Name and Address	Telephone and Web Site
U.S. Small Business Administration	(415) 744-6820 Extension 0
455 Market Street, Suite 600	Dynamic Small Business Search: https://catalog.data.gov/dataset/dynamic-small-business-search-dsbs-025a1 ¹
San Francisco, CA 94105	Bid Notification: https://catalog.data.gov/dataset/subcontracting-network-subnet-system ²
RE: Minority Enterprise Development Offices	
U.S. Department of Commerce	909-315-3339
Minority Business Development Agency	Website:
177 East Colorado Blvd. Suite 200 Space 2054	https://www.mbda.gov/business-center/pasadena-mbda-business-center ³
Pasadena, CA 91105	RE: Business Development Centers

12.9. State Agencies (must be contacted):

Name and Address	Telephone and Web Site
California Department of Transportation	Mailing Address: PO Box 942874
(CALTRANS) Business Enterprise Program ⁴	Sacramento, CA 94274-0015
1820 Alhambra Blvd.	(916) 227-9599
Sacramento, CA 95816	<u>DBE Database:</u> https://dot.ca.gov/programs/civil-rights/dbe
CA Public Utilities Commission (CPUC)⁵	
505 Van Ness Avenue	<u>Directory:</u>
San Francisco, CA 94102-3298	https://sch.thesupplierclearinghouse.com/FrontEnd/SearchCertifiedDirectory.asp

Notes:

1. The Contractor shall use the SBA's Dynamic Business Search database to search for potential subcontractors, suppliers, and/or manufacturers. Bidder must provide a copy of all search records for items of work made available with GFE documentation.
2. Contractor shall use SUB-Net to post subcontracting opportunities. Contractor shall post Subcontractor opportunities at least 15 Working Days prior to bid opening. Small businesses can review this web site to identify opportunities in their areas of expertise. The web site is designed primarily as a place for large businesses to post solicitations and notices. Bidder **must** provide copy of the Display Solicitation Record identifying the date solicitation notice was posted with GFE documentation.
3. Contractor may use MBDA web portal to post subcontracting opportunities. If utilized, the Contractor shall post subcontractor opportunities at least 30 Calendar Days prior to Bid opening. Small businesses can review this web site to identify opportunities in their areas of expertise. The web site is designed primarily as a place for large businesses to post solicitations and notices. Provide copy of the Offer Overview with the GFE documentation.
4. Based on the federal DBE program, CALTRANS maintains a database and provides directories of minority and woman-owned firms. Bidder must provide a copy of all search records for items of work made available with GFE documentation.
5. CPUC maintains a database of DBE-owned business enterprises and serves to inform the public. Bidder **must** provide a copy of all search records for items of work made available with GFE documentation.

13. GOOD FAITH EFFORT DOCUMENTATION SUBMITTALS:

- 13.1.** The affirmative GFE steps documentation shall be submitted by **5 PM, 4 Working Days after the Bid Opening**. If this documentation is not submitted when due, the City will declare the Bid **non-responsive** and reject it.

13.2. The required documentation shall be submitted and logged in at the following address:

CITY OF SAN DIEGO
ENGINEERING & CAPITAL PROJECTS DEPARTMENT, CONTRACTS DIVISION
525 B STREET, SUITE 750
SAN DIEGO, CA 92101

SUBJECT: AFFIRMATIVE GOOD FAITH EFFORT DOCUMENTATION

BID NO. K-21-1861-DBB-3

13.3. The Contractor shall maintain the records documenting compliance with requirements including documentation of its GFE and data relied upon in formulating its fair share objectives.

14. FORMS:

14.1. The Contractor shall demonstrate that efforts were made to attract DBEs on this contract. The Contractor and Subcontractors shall take the steps listed in these specifications to assure that DBEs are used whenever possible as sources of supplies, construction, equipment, or services. In addition to the specified GFE documentation, the Bidder shall submit the following forms.

14.1.1. The Contractor shall demonstrate that efforts were made to attract DBEs on this contract. The Contractor and Subcontractors shall take the steps listed in these specifications to assure that DBEs are used whenever possible as sources of supplies, construction, equipment, or services. In addition to the specified GFE documentation, the Bidder shall submit the following forms.

14.1.1.1 The following form shall be submitted **with the Bid submittal**. Failure to include any of the forms shall cause the Bid to be deemed **non-responsive**.

1. Form 4500-3: DBE Subcontractor Performance Form
2. Form 4500-4: DBE Subcontractor Utilization Form

14.1.1.2 The following forms shall be completed and submitted within **4 Working Days after the Bid opening by 5PM**. Failure to include any of the forms shall cause the Bid to be deemed **non-responsive**.

1. Form AA61: List of Work Made Available
2. Form AA62: Summary of Bids Received
3. Form AA63: Good Faith Effort List of Subcontractors Solicited

14.1.2. The following additional forms shall be submitted annually in accordance with Section 11 "AGENCY SPECIFIC PROVISIONS".

1. Form UR-334: California State Revolving Funds (CASRF)

14.1.3. Bidder is to provide the following form to all DBE subcontractors participating on this contract. Submittal of form is dependent on DBE subcontractor and is to be forwarded to the DBE coordinator at any time during the project period of performance.

1. Form 4500-2: DBE Subcontractor Participation Form.

FUNDING AGENCY PROVISIONS

FORMS



**Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Performance Form**

This form is intended to capture the DBE¹ subcontractor's² description of work to be performed and the price of the work submitted to the prime contractor. A Financial Assistance Agreement Recipient must require its prime contractor to have its DBE subcontractors complete this form and include all completed forms in the prime contractor's bid or proposal package.

Subcontractor Name		Project Name	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact	
Address			
Telephone No.		Email Address	
Prime Contractor Name		Issuing/Funding Entity	

Contract Item Number	Description of Work Submitted from the Prime Contractor Involving Construction, Services, Equipment or Supplies	Price of Work Submitted to the Prime Contractor
DBE Certified By: <input type="checkbox"/> DOT <input type="checkbox"/> SBA <input type="checkbox"/> Other: _____		Meets/exceeds EPA certification standards? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Unknown

¹ A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.2015 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.
² Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
Title	Date

Subcontractor Signature	Print Name
Title	Date

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.

FORM 4500-3 (DBE Subcontractor Performance Form)



Disadvantaged Business Enterprise (DBE) Program DBE Subcontractor Utilization Form

This form is intended to capture the prime contractor's actual and/or anticipated use of identified certified DBE¹ subcontractor's² and the estimated dollar amount of each subcontract. A Financial Assistance Agreement Recipient must require its prime contractors to complete this form and include it in the bid or proposal package. Prime contractors should also maintain a copy of this form on file.

Prime Contractor Name		Project Name	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact	
Address			
Telephone No.		Email Address	
Issuing/Funding Entity			

I have identified potential DBE certified subcontractors. ___ YES ___ NO If yes, please complete the table below. If no, please explain:			
Subcontractor Name/ Company Name	Company Address / Phone / Email	Estimated Dollar Amount	Currently DBE Certified?

--Continue on back if needed--

¹ A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.2015 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

² Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
Title	Date

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.

FORM 4500-4 (DBE Subcontractor Utilization Form)

LIST OF WORK MADE AVAILABLE

List items of the Work the Bidder made available to DBE firms. Identify those items of the Work the Bidder might otherwise perform with its own forces and those items that have been broken down into economically feasible units to facilitate DBE participation. For each item listed, show the dollar amount and percentage of the Base Bid. The Bidder must demonstrate that enough work to meet the goal was made available to DBE firms.

SCOPE OF WORK MADE AVAILABLE	NAICS CODE	BIDDER NORMALLY PERFORMS ITEM (Y/N)	ITEM BROKEN DOWN TO FACILITATE PARTICIPATION (Y/N)	AMOUNT	PERCENTAGE OF BASE BID



**Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Participation Form**

A Financial Assistance Agreement Recipient must require its prime contractors to provide this form to its DBE subcontractors. This form gives a DBE¹ subcontractor² the opportunity to describe work received and/or report any concerns regarding the funded project (e.g., in areas such as termination by prime contractor, late payments, etc.). The DBE subcontractor can, as an option, complete and submit this form to the DBE Coordinator at any time during the project period of performance.

Subcontractor Name		Project Name	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact	
Address			
Telephone No.		Email Address	
Prime Contractor Name		Issuing/Funding Entity	

Contract Item Number	Description of Work Received from the Prime Contractor Involving Construction, Services, Equipment or Supplies	Amount Received by Prime Contractor

¹ A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.2015 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

² Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

Please use the space below to report any concerns regarding the above funded project:

Subcontractor Signature	Print Name
Title	Date

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.

Send completed Form 4500-2 to:
Mr. Joe Ochab, DBE Coordinator
US EPA, Region 9
75 Hawthorne Street
San Francisco, CA 94105

FORM 4500-2 (DBE Subcontractor Participation Form)

ATTACHMENT E
SUPPLEMENTARY SPECIAL PROVISIONS

SUPPLEMENTARY SPECIAL PROVISIONS

The following Supplementary Special Provisions (SSP) modifies the following documents:

1. The **2018 Edition** of the Standard Specifications for Public Works Construction (The "GREENBOOK").
2. The **2018 Edition** of the City of San Diego Standard Specifications for Public Works Construction (The "WHITEBOOK"), including the following:
 - a) General Provisions (A) for all Construction Contracts.

PART 0 – EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP)

SECTION A – GENERAL REQUIREMENTS

0-12 CONTRACT RECORDS AND REPORTS. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall maintain records of all subcontracts and invoices from your Subcontractors and Suppliers for work on this project. Records shall show name, telephone number including area code, and business address of each Subcontractor, Supplier, and joint venture partner, and the total amount actually paid to each firm. Project relevant records, regardless of tier, may be periodically reviewed by the City.
2. You shall retain all records, books, papers, and documents pertinent to the Contract for a period of not less than 5 years after Notice of Completion and allow access to said records by the City's authorized representatives.
3. You shall submit the following reports using the City's web-based contract compliance (Prism® portal):
 - a) **Monthly Payment.** You shall submit Monthly Payment Reporting by the 10th day of the subsequent month. Incomplete and/or delinquent reporting may cause payment delays, non-payment of invoices, or both.
4. The records maintained under item 1, described above, shall be consolidated into a Final Summary Report, certified as correct by an authorized representative of the Contractor. The Final Summary Report shall include all subcontracting activities and be sent to the EOCP Program Manager prior to Acceptance. Failure to comply may result in assessment of liquidated damages or withholding of retention. The City will review and verify 100% of subcontract participation reported in the Final Summary Report prior to approval and release of final retention to you. In the event your Subcontractors are owed money for completed Work, the City may authorize payment to subcontractor via a joint check from the withheld retention.

SECTION 1 – GENERAL, TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE, AND SYMBOLS

1-2 TERMS AND DEFINITIONS. To the “WHITEBOOK”, items 43, 56, 69, and 102, DELETE in their entirety and SUBSTITUTE with the following:

- 43. **Field Order** -A Field Order is a written agreement by the Engineer to compensate you for Work items in accordance with 2-8, “EXTRA WORK” or 2-9, “CHANGED CONDITIONS”. A Field Order does not change the Contract Price, Contract Time, or the scope intent of the Contract. The unused portion of the Field Order shall revert to the City upon Acceptance.
- 56. **Notice of Completion (NOC)** - A document recorded with the County of San Diego to signify that the Contract Work has been completed and accepted by the City.
- 69. **Punchlist** - A list of items of Work or corrections generated after a Walk-through that is conducted when you consider that the Work and Services are complete, and as verified by the Owner. The Punchlist may be completed in phases if defined in the Contract.
- 102. **Walk-through**- An inspection the City uses to verify the completion of the Project or phase of the Project and to generate a Punchlist prior to Acceptance.

To the “WHITEBOOK”, item 54, “Normal Working Hours”, ADD the following:

The **Normal Working Hours** are **6:30 AM to 5:00 PM**. (NOTE: Working hours are subject to change and will be at the discretion of the Construction Manager.)

To the “WHITEBOOK”, ADD the following:

- 108. **Acceptance** – When all of the Contract Work, including all Punchlist items, is deemed officially complete by the City Engineer.
- 109. **Beneficial Use** - The time at which the Work for a specific area or unit process has progressed to the point where, in the opinion of Owner and Construction Manager, the Work for the specific area or unit process is Substantially Complete, in accordance with the Contract Documents, so that the for the specific area or unit process can be utilized for the purposes for which it is intended.
- 110. **Construction Manager** - The authorized representative of the Owner, also referred to as the Owner’s Representative, who may be assigned to the site or any part thereof. All communication from the Contractor shall be through the Construction Manager. The responsibilities, authority, and limitations of the Construction Manager shall be as shown in the Contract Documents.
- 111. **Design Engineer** - The person, firm(s) or corporation(s) named as such below:
 - CH2M HILL Engineers, Inc.
 - Kleinfelder, Inc.
 - Marum Partnership.
 - Manuel Oncina Architects.

Lopez Engineering, Inc.

Kennedy Jenks Consultants, Inc.

O'Day Consultants, Inc.

PW Engineering, Inc.

RF Yeager Engineering, Inc.

The authorized Engineer of Record hired by the Owner. The responsibilities, authority, and limitations of the Construction Manager shall be as shown in the Contract Documents. This Design Engineer is also the individual(s) or entity(ies) named as such in the Contract Documents and established as the Engineer of Record.

112. **Final Completion** - Once Substantial Completion has been achieved, the following items are to be completed prior to the Final Completion by the Contractor:

- a) The Contractor shall complete punch list fix-up as approved by the Construction Manager prior to being provided with Final Completion.
- b) All Work required under Section 01 77 00, Closeout Procedures shall have been completed.

Following Final Completion, the City Engineer shall provide Acceptance of the facilities and take over operation of the facilities

113. **Intermediate Substantial Completion** – The time at which the Project's operating facilities or systems are sufficiently complete to provide Owner with uninterrupted temporary operations and maintenance of the overall facility as required to perform an integrated startup with other facilities within the Program. These facilities include the Morena Pump Station and Pipelines, North City Water Reclamation Plant Expansion, North City Pure Water Facility Influent Pump Station and Conveyance, North City Pure Water Facility, North City Pure Water Pump Station, North City Pure Water Pipeline and Dechlorination Facility, and Metropolitan Biosolids Center. The CONTRACTOR shall support all activities within the Integration Period as described in Section 01 91 14 Testing, Integration, and Startup.

114. **Occupancy** – When the Owner deems a building is ready for use, the Building Official will issue a certificate of Occupancy in writing.

115. **Substantial Completion** –

- a) The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of Owner and Construction Manager, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms "substantially complete" and "substantially completed", as applied to all or part of the Work, shall refer to Substantial Completion thereof.

- b) The time at which the Project's operating facilities or systems is sufficient to provide Owner the full time, uninterrupted, and continuous beneficial operation of the Work; and when all required functional, performance, and acceptance or startup testing, and commissioning has been successfully demonstrated for all components, devices, equipment, and instrumentation and control to the satisfaction of the Owner and Construction Manager in accordance with the requirements of the Specifications.
- c) For Substantial Completion, the Contractor shall have completed all interior finish work, electrical, instrumentation and control, mechanical, HVAC, lighting, plumbing, civil, and final grading and paving, and also when, in the opinion of the Construction Manager and the Owner, the plant is essentially complete and ready for operation.

1-7.1.3 Requests for Information (RFI). To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Should You discover a conflict, omission, errors in the Contract Documents, differences with existing field conditions, or have any questions concerning interpretation or clarification of Contract Documents, or when you propose deviations to the standards or design, you shall submit a Request for Information (RFI) to the City regarding your question or clarification within **1 Working Day**.
2. Your RFI shall meet the following requirements:
 - a) All RFIs, whether by You or your Subcontractor or supplier at any tier, shall be submitted by You to the City.
 - b) RFIs shall be numbered sequentially.
 - c) You shall clearly and concisely set forth the single issue for which interpretation or clarification is sought, indicate Specification Section numbers, Contract Drawing numbers, and details, or other items involved, and state why a response is required from the City.
 - d) RFIs shall be submitted within **1 Working Day** in order that they may be adequately researched and answered before the response affects any critical activity of the Work.
 - e) Should You believe that a response to an RFI causes a change to the requirements of the Contract, You shall, before proceeding, give written notice to the City, indicating that You believe that City response to the RFI to be a Change Order. Failure to give such written notice within **5 Working Days** of receipt of the City's response to the RFI shall waive Your right to seek additional time or cost.
3. The City will respond to RFIs within **5 Working Days** unless the City notifies You in writing that a response will take longer. The **5 Working Days** shall begin when the RFI is received and dated by the City. Responses from the City will not change any requirement of the Contract unless so noted by the City in the response to the RFI. The City will not issue a Change Order for Extra Work or additional time when the issue raised in the RFI was due to your fault, neglect, or any unauthorized deviations from the project design or specifications.

4. If You proceed in resolving a conflict, omission, or any error in the Contract Documents without sending the City an RFI in accordance with the requirements stated above, the City may require You to remove such work at Your cost or back charge You the cost to remove this work.

1-7.2

Contract Bonds. To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Before execution of the Contract, file payment and performance bonds with the City to be approved by the Board in the amounts and for the purposes noted. Bonds shall be executed by a responsible surety as follows:
 - a) If the Work is being funded with state or local money, consistent with California Code of Civil Procedure §995.670, the Surety shall be an "admitted surety" authorized by the State of California Department of Insurance to transact surety insurance in the State.
 - b) If the Work is being funded with federal money, the Surety shall be listed in the U.S. Treasury Department Circular 570 and shall be in conformance with the specified Underwriting Limitations.

To the "WHITEBOOK", item 2, subsection "a", subsection "i", DELETE in its entirety and SUBSTITUTE with the following:

- i. A "Payment Bond" (Materials and Labor Bond) is optional. If no bond is submitted, no payment shall be made until 35 Calendar Days after Acceptance and any lien requirements have been fulfilled. If a bond is submitted, progress payments shall be made in accordance with these Specifications.

To the "WHITEBOOK", item 2, subsection "d", DELETE in its entirety and SUBSTITUTE with the following:

- d) For Contracts over \$100,000:
 - i. A "Payment Bond" (Materials and Labor Bond) for 100% of the Contract Price to satisfy claims of material Suppliers and of mechanics and laborers employed on the Work. You shall maintain the bond in full force and effect until Acceptance and until all claims for materials and labor are paid and shall otherwise comply with the Government Code.
 - ii. A "Faithful Performance Bond" for 100% of the Contract Price to guarantee faithful performance of Work, within the time prescribed and in a manner satisfactory to the City, that materials and workmanship shall be free from original or developed defects.

To the "WHITEBOOK", item 7, DELETE in its entirety and SUBSTITUTE with the following:

7. You shall require the Surety to mail its standard "Bond Status" form to the Engineer at the following address:

Deputy Director
Construction Management and Field Engineering Division
9573 Chesapeake Drive San Diego, CA 92123

SECTION 2 - SCOPE OF THE WORK

2-2 PERMITS, FEES, AND NOTICES. To the "WHITEBOOK", ADD the following:

2. The City will obtain, at no cost to you, the following permits:
 - a) Building Permit

2-10.1.4 City's Final Determination. To the "WHITEBOOK", item 2, DELETE in its entirety and SUBSTITUTE with the following

2. If you disagree with the City's Final Determination, notify the Engineer in writing of your objection within 15 Working Days after receipt of the written determination in accordance with 2-10.2.1.4, "DRB Traditional Dispute Meeting".

2-10.2 Dispute Resolution Process. To the "WHITEBOOK", DELETE all sections and subsections in their entirety and SUBSTITUTE with the following:

2-10.2 Dispute Resolution Process

1. A mandatory Dispute Resolution Board process shall be established in accordance with 2-10.2.1, "Dispute Resolution Board (DRB)" prior to the mandatory mediation as described in 2-10.2.2, "Mandatory Non-binding Mediation".

2-10.2.1 Dispute Resolution Board (DRB).

1. The DRB is a 3-member board that you and the City establish prior to beginning work.

2-10.2.1.1 DRB Member Selection. Within 45 Working Days of Contract approval, you and the City shall select DRB members and establish the DRB using the following procedure:

2. You and the City each nominates a DRB member candidate who is on the City's approved list. For the list of approved member candidates, go to the City's Division of Construction website.
3. If you or the City nominates someone who is not on that list, the candidate shall:
 - a) Be knowledgeable in the type of construction and contract documents anticipated by the Contract.
 - b) Have completed training by the Dispute Resolution Board Foundation.
 - c) Have no prior direct involvement on this Contract.
 - d) Have no financial interest in the Contract or with the parties, subcontractors, suppliers, consultants, or associated legal or business services within 6 months before award and during the Contract, except for payments for City DRA or DRB services, or payments for retirement or pensions from either party not tied to, dependent on, or affected by the net worth of the party.

4. You and the City shall request a disclosure statement from each nominated DRB member candidate and must each furnish it to the other party. The statement shall include:
 - a) Resume of the candidate's experience.
 - b) Declaration statement that describes past, present, anticipated, and planned professional or personal relationships with each of the following:
 - i. Parties involved in the Contract
 - ii. Parties' principals
 - iii. Parties' counsel
 - iv. Associated subcontractors and suppliers
5. You and the City are allowed:
 - a) One-time objection to the other's candidate without stating a reason.
 - b) Objection to any of the other's subsequent candidates based on a specific breach of the candidate's responsibilities or qualifications under items 1 and 3 of this section.
6. If you or the City objects to the other's candidate, the party whose candidate was objected to must nominate another DRB candidate within 15 Working Days.
7. The 1st candidate from a party that receives no objection becomes that party's DRB member.
8. You and the City each provide written notification to your selected DRB member.
9. Within 15 Working Days of their notifications, the selected DRB members recommend to you and the City the 3rd DRB member candidate and provide that candidate's disclosure statement.
10. Within 15 Working Days of the recommendation, you and the City must each notify the first 2 DRB members whether you approve or disapprove of the recommended 3rd DRB member candidate.
11. If the 2 DRB members cannot agree on the 3rd DRB candidate, they will submit a list of candidates to you and the City for final selection and approval.
12. If the 2 DRB members do not recommend a 3rd DRB candidate within 15 Working Days of notification of their selections, or if you and the City do not agree on the 3rd DRB member candidate within 15 Working Days of the recommendation, or if you and the City do not agree on any of the candidates on the list provided by the first 2 selected DRB members, you and the City each must select 3 candidates from the current list of arbitrators certified by the Public Works Contract Arbitration Committee established by Pub Cont Code § 10245 et seq. who will be willing to serve as a DRB member. The first 2 selected DRB members must select the 3rd member in a blind draw of these 6 candidates.
13. The 3 DRB members then decide which of the three will act as the DRB chairman. If you and the City do not agree with the selected chairman, the 3rd member will act as the DRB chairman.

2-10.2.1.2 DRB Member Replacement.

1. The service of a DRB member may end at any time with a notice of at least 15 Working Days if any of the following occurs:
 - a) A member resigns
 - b) The City replaces its selected member
 - c) You replace your selected member
 - d) The City's and your selected members replace the 3rd member
2. Either you or the City replace any member for failing to comply with the required employment or financial disclosure conditions of DRB membership as described in the Contract and in the Dispute Resolution Board Agreement form.
3. Replacing any DRB member shall be accomplished by written notification to the DRB and the other party with substantiation for replacing the member.
4. A replacement DRB member is selected the same way as the original DRB member. Selecting a replacement must start upon determination of the need for a replacement and must be completed within 15 Working Days. The Dispute Resolution Board Agreement form shall be amended to reflect the change to the DRB.

2-10.2.1.3 DRB Progress Meetings.

1. You and the City shall periodically meet with the DRB and visit the job site so the DRB members can keep abreast of construction activities and develop familiarity with the work in progress.
2. The progress meetings shall occur at the start of the project and at least once every 4 months after that.
3. Both parties shall attend each progress meeting.
4. You and the City may agree to waive scheduled progress meetings when the only work remaining is plant establishment.

2-10.2.1.4 DRB Traditional Dispute Meeting.

1. If you disagree with the City's Final Determination, notify the Engineer and DRB in writing of your objection within 15 Working Days after receipt of the determination.
2. A DRB dispute meeting shall be held no sooner than 30 Calendar Days and no later than 60 Calendar Days after the DRB receives your written notice unless you and the City otherwise agree.
3. At least 15 Calendar Days before the scheduled dispute meeting, each party shall furnish the DRB documentation that supports its position and any additional information requested by the DRB.
4. If the DRB requests additional information within 10 Calendar Days after the dispute meeting, the party receiving the request shall furnish this information within 10 Calendar Days of receiving the request.

5. The DRB shall provide a written recommendation report within 30 Calendar Days of the dispute meeting unless you and the City agree to allow more time.
6. Within 10 Calendar Days of receiving the DRB's recommendation report, either you or the City may request clarification of any part of the report. Only one request for clarification from each party is allowed per dispute.
7. Within 30 Calendar Days after receiving the DRB's recommendation, each party shall furnish a written response to the DRB indicating acceptance or rejection of the recommendation. If a party rejects the recommendation and has new information that supports its position, the party may request reconsideration. The reconsideration request shall be made within 30 Calendar Days after receiving the DRB's recommendation. Only one request for reconsideration from each party is allowed per dispute.
8. If both you and the City accept the DRB's recommendation but cannot agree on the time or payment adjustment within 60 Calendar Days of accepting the recommendation, either party may request that the DRB recommend an adjustment.
9. If you reject the DRB's recommendation, notify the Resident Engineer and DRB in writing of your objection within 15 Working Days after receipt of the DRB's recommendation and file a "Request for Mediation" in accordance with 2-10.2.2, "Mandatory Non-binding Mediation".

2-10.2.2 Mandatory Non-binding Mediation.

1. If a dispute arises out of or relates to the Contract, or the breach thereof, and if said dispute cannot be settled through contract provisions provided for the Dispute Resolution Board process, claim settlement, or negotiations, the parties agree to first endeavor to settle the dispute in an amicable manner, using mandatory mediation under the Construction Industry Mediation Rules of the American Arbitration Association or any other neutral organization agreed upon before having recourse in a court of law.

2-10.2.2.1 Mandatory Mediation Costs.

1. The expenses of witnesses for either side shall be paid by the party producing such witnesses. All other expenses of the mediation, including required traveling and other expenses of the mediator and the cost of any proofs or expert advice produced at the direct request of the mediator, shall be borne equally by the parties, unless they agree otherwise.

2-10.2.2.2 Selection of Mediator. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. A single mediator, knowledgeable in construction aspects and acceptable to both parties, shall be used to mediate the dispute.
2. To initiate mediation, the initiating party shall serve a Request for Mediation at the American Arbitration Association (AAA) on the opposing party.
3. If AAA is used, the initiating party shall concurrently file with AAA a "Request for Mediation" along with the appropriate fees, a copy of requested mediators marked in preference order, and a preference for available dates.

4. If AAA is selected to coordinate the mediation (Administrator), within 10 Working Days from the receipt of the initiating party's Request for Mediation, the opposing party shall file the following:
 - a) A copy of the list of the preferred mediators listed in preference order after striking any mediators to which they have any objection.
 - b) A preference for available dates.
 - c) Appropriate fees.
5. If the parties cannot agree on a mediator, then each party shall select a mediator and those mediators shall select the neutral third party to mediate the matter.

2-10.2.2.3 Conduct of Mediation Sessions.

1. Mediation hearings shall be conducted in an informal manner and discovery shall not be allowed.
2. Discussions, statements, and/or admissions shall be confidential to the proceedings and shall not be used for any other purpose as it relates to the party's legal position. The parties may agree to exchange any information they deem necessary.
3. Both parties shall have an authorized representative attend the mediation. Each representative shall have the authority to recommend entering into a settlement. Either party may have attorney(s), witnesses, or expert(s) present. Either party may request a list of witnesses and notifications of whether attorney(s) shall be present.
4. Any resulting agreements from mediation shall be documented in writing. Mediation results and documentation, by themselves, shall be "non-binding" and inadmissible for any purpose in any legal proceeding, unless such admission is otherwise agreed upon in writing by both parties. Mediators shall not be subject to any subpoena or liability and their actions shall not be subject to discovery.

2-10.2.3 Payment.

1. Pay each DRB member \$1,500 per day for DRB's participation at each on-site meeting
 - a) If a DRB member serves on more than one DRB, the \$1,500 shall be divided evenly among the contracts.
2. On-site meetings include:
 - a) Initial project meeting
 - b) Scheduled progress meetings for a project with a DRB
 - c) Dispute meetings
3. This payment includes full compensation for on-site time, travel expenses, transportation, lodging, travel time, and incidentals for each day or portion thereof that the DRB member is at a DRB meeting.

4. Before a DRB member spends any time reviewing plans and specifications, evaluating positions, preparing recommendations, or performs any other off-site DRB-related tasks, you and the City shall agree to pay for the tasks. Pay the DRB member \$150 per hour for these tasks. This payment includes full compensation for incidentals such as expenses for telephone, fax, and computer services.
5. The City shall reimburse you for 1/2 of the invoiced costs to the DRB and 1/2 of the costs of any technical services agreed to. Submit a change order bill and associated invoices with the original supporting documents in the form of a canceled check or bank statement to receive reimbursement. Do not add mark-ups to the change order bill.
6. The City will not pay for any DRB-related work performed after Contract acceptance.
7. The City will not pay your cost of preparing for and attending a dispute resolution meeting.

SECTION 3 – CONTROL OF THE WORK

3-2 SELF-PERFORMANCE. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall perform, with your own organization, Contract Work amounting to at least **40%** of the base Bid.

3-3 SUBCONTRACTORS. To the "WHITEBOOK", ADD the following:

6. When a Subcontractor fails to prosecute a portion of the Work in a manner satisfactory to the City, you shall remove such Subcontractor immediately upon written request of the City, and shall request approval of a replacement Subcontractor to perform the Work in accordance with California Public Contract Code (PCC), Subletting and Subcontracting, Section 4107, at no added cost to the City.

3-7.3.1 General. To the "WHITEBOOK", ADD the following:

6. For additional requirements related to Red-lines and Record Documents, refer to Technical Specifications, Section 01 77 00 "Closeout Procedures", Part 3 "Execution".

3-8.1 General. To the "WHITEBOOK", ADD the following:

3. For additional requirements related to submittals, refer to Technical Specifications, Section 01 33 00 "Submittal Procedures".

3-9 TECHNICAL STUDIES AND SUBSURFACE DATA. To the "WHITEBOOK", ADD the following:

5. In preparation of the Contract Documents, the designer has relied upon the following reports of explorations and tests at the Work Site:
 - a) The Stormwater Pollution Prevention Plan for the North City Water Reclamation Plant Expansion Package 2 North City Water Reclamation

Plant Expansion, dated October 2017, and North City Pure Water Pumping Station and Influent Conveyance Package 3, dated June 2017, prepared by O'Day Consultant's Inc. The Contractor shall implement and update this SWPPP as required by the Contract Documents.

- b) The Priority Development Project (PDP) Stormwater Quality Management Plan for the North City Water Reclamation Plant Expansion Package, Permit Number 585316, DWB 40381, dated June 29, 2018, prepared by O'Day Consultant's Inc.
 - c) Record Drawings, including the following:
 - i. North City Water Reclamation Plant D Sheet 26982.
 - ii. North City Water Reclamation Plant EDR Expansion Design Concept Drawings.
 - iii. North City Water Reclamation Electrodialysis Reversal System 6 and AWT Pad Installation D Sheet 36268.
 - iv. North City Cogeneration Facility Expansion – Site Development D Sheet 37093.
 - v. North City Raw Sludge Pumping Station D Sheet 27348
 - vi. North City Water Reclamation Plant Existing Sodium Hypochlorite Disinfection System Modifications D sheet 30245
 - vii. None of the contents of such Drawings is Technical Data on whose accuracy Contractor may rely.
 - d) Final Report of Geotechnical Investigation North City Water Reclamation Plant Expansion (AGE Project No. 44F1) dated January 17, 2018 by Allied Geotechnical Engineer's Inc.
 - e) City Reclamation Plant Expansion Potholing Report No. X170059, dated June 9, 2017 by AirX Utility Surveyors Inc.
6. The reports listed above are available for review at the following link:

<https://drive.google.com/drive/folders/1yKaiDsiQ72cRfoKReJ9hysPuCz7C0K9G?usp=sharing>

3-10 SURVEYING. To the "GREENBOOK" and "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

3-10 SURVEYING (DESIGN-BID-BUILD).

3-10.1 General.

- 1. You shall provide all required site layout and general grade checking work not specified in 3-10.2, "Survey Services Provided by City".
- 2. Notify the City, in writing, at least 2 Working Days prior to requesting survey services provided by the City.

3-10.2 Survey Services Provided by City.

1. Unless otherwise noted, monument perpetuation, including mark-outs, will be performed by the City. Coordination of these services will be your duty, through the Resident Engineer. If, at any time, an existing survey monument is, or will be, destroyed or disturbed during the course of construction you shall notify the Resident Engineer so that the monument is preserved or perpetuated in accordance with state law.
2. The following surveying services, as defined in Cal. Bus. & Prof. Code §8726, shall be provided by the City:
 - a) Locating or establishing a minimum of 4 project geodetic survey control points that provide horizontal and vertical reference values for site feature and structure layout reference locations.
 - b) Locating, establishing, or reestablishing project site boundary lines, survey monuments, right-of-way lines, or easement lines.
 - c) Locating or establishing building design structure locations (building corners or envelope limits) sufficient for structure construction.

3-10.3 Payment.

1. The payment for site layout and general grade checking Work, coordination, and preservation of all survey related marks shall be included in the Contract Price.

3-11.2 Project Identification Sign. To the "WHITEBOOK", ADD the following:

4. The State Revolving Fund requires that the Contractor place (2) temporary signs at least four (4) feet tall by eight (8) feet wide made of three-fourths (3/4) inch thick exterior grade plywood or other approved material in a prominent locations approved by the Engineer. The Contractor shall fabricate, properly mount and maintain both signs. The image cast on the sign should be resistant and protected from weathering. The signs should be mounted firmly and securely at the two sites with proper footing and post, as approved by the Resident Engineer. The Contractor is responsible for maintaining the signs in a manner approved by the Resident Engineer and will remove and dispose of upon completion. The sign shall include the full colored image that will be provided on a CD, at the pre-construction meeting.

Andrea Demich, Program Manager, ADemich@sandiego.gov

Monika Smoczynski, Project Manager, MSmoczynski@sandiego.gov

3-12.1 General. To the "WHITEBOOK", ADD the following:

2. You shall provide a PM-10 certified self-loading motorized street sweeper equipped with a functional water spray system for this project.
3. You shall sweep all paved areas within the Work site and all paved haul routes as specified below:
 - a) Every Friday on a weekly basis.
 - b) 1 Working Day prior to each rain event.
 - c) As directed by the Engineer.

If these requirements would require you to sweep on a Holiday or Weekend, then you shall sweep the next available Working Day prior to that Holiday or Weekend.

3-12.7 Drinking Water Discharges Requirements. To the "WHITEBOOK", ADD the following:

1. You shall record the results for each discharge event on the City's Drinking Water Discharge Monitoring form included as **Appendix F - Monthly Drinking Water Discharge Monitoring Form.**

3-13.1 Completion. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall submit a written assertion that the Work has been completed and is ready for Owner Acceptance. If, in the Engineer's judgment, the Work has been completed in accordance with the Contract Documents, the Engineer will set forth in writing the date the Work was completed. This will be the date that you are relieved from responsibility to protect and maintain the Work and to which liquidated damages will be computed.

3-13.1.1 Requirements Before Requesting a Walk-through. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

3-13.1.1 Requirements Before Requesting Substantial Completion.

1. The following items are required prior to requesting a Substantial Completion:
 - a) Remove temporary facilities from the Site.
 - b) Thoroughly cleaning the Site and removing all mark outs and construction staking.
 - c) Provide completed and signed Red-lines in accordance with 3-7.3 "Redlines and Record Documents".
 - d) Provide all material and equipment maintenance and operation instructions and/or manuals.
 - e) Provide all tools which are permanent parts of the equipment installed in the Project.
 - f) Provide and properly identify all keys for construction and all keys for permanent Work.
 - g) Provide all final Special Inspection reports required by the applicable building Code.
 - h) Provide all items specified to be supplied as extra stock. Wrap, seal, or place in a container all items as necessary to allow for storage by the City for future use. Verify the specified quantities.
 - i) Ensure that all specified EOCP and certified wage rate documentations covering the Contract Time have been submitted.

- j) If the Work includes installing an irrigation system, provide the spare parts for the proposed irrigation system as specified in the Special Provisions.
- k) If the Work includes sewer and storm drain installations, the inspection shall include televising in accordance with 306-18, "VIDEO INSPECTION".
- l) If the Work includes a Plant Establishment Period, Work in accordance with 801-6, "MAINTENANCE AND PLANT ESTABLISHMENT" shall be completed prior to requesting Substantial Completion, unless approved otherwise by the Owner.
- m) Notify the Engineer to arrange a final inspection of any permanent BMPs installed.

3-13.1.2 Walk-through and Punchlist Procedure. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall notify the Engineer 15 Working Days in advance of date of anticipated Substantial Completion to allow time for Engineer to schedule a Walk-through. After you complete the requirements in 3-13.1.1, "Requirements Before Requesting Substantial Completion" and when you consider that the Work is Substantially Complete, you will notify the Engineer in writing that the Project is Substantially Complete. The Engineer will review your request and determine if the Project is ready for a Walk-through, by verifying whether you have completed all items as required by 3-13.1.1, "Requirements Before Requesting Substantial Completion". Within 7 Working Days, the City will either reject your request of a Walk-through in writing or schedule a Walk-through inspection. The Engineer shall facilitate the Walk-through.
2. The following documents shall be provided at the time of your Walk-through request: As-Built markup, Plans, specifications, technical data such as submittals and equipment manuals, draft final payment, warranties, material certifications, bonds, guarantees, maintenance service agreements, and maintenance and operating manuals.
3. Written warranties, except manufacturer's standard printed warranties, shall be on a letterhead addressed to you. Warranties shall be submitted in the format described in this section, modified as approved by the City, to suit the conditions pertaining to the warranty. Lack of submitting these items will delay start of Walk-through.
4. The Engineer will provide you with the Punchlist within 15 Working Days after the date of the Walk-through. The City shall not provide a preliminary Punchlist.
5. If the Engineer finds that the Project is not Substantially Complete as defined herein, the Engineer will terminate the Walk-through and notify you in writing.
6. If, at any time during the Engineer's evaluation of the corrective Work required by the Punchlist, the Engineer discovers that additional corrective Work is required, the Engineer may include that corrective Work in the Punchlist.

7. You shall remain solely responsible for the Project Site until the Project is completely operational, all Punchlist items have been corrected, and all operation and maintenance manuals have been accepted by the City.
8. The Engineer shall meet with you within 5 Working Days of notification that all Punchlist items are corrected. You shall complete the Punchlist within 30 Working Days, and Working Days will continue to be counted until Acceptance of the Project.

3-13.2 Acceptance. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall provide the completed, signed, and stamped DS-563 to the Engineer prior to Acceptance.
2. You shall deliver the final As-builts and final billing prior to Acceptance.
3. You shall assemble and deliver to the Engineer a Final Summary Report and Affidavit of Disposal before the City will accept the Project.
4. Acceptance shall occur after all of the requirements contained in the Contract Documents have been fulfilled. If, in the Engineer's judgment, you have fully performed the Contract, the Engineer will recommend to the City Engineer that your performance of the Contract be accepted. You shall receive notification of Acceptance in writing from the Owner and counting of working days shall cease and Warranty begins.
5. Retention can be released 35 Calendar Days after NOC. Submit your request for retention to the Resident Engineer and they will mail to you a "Release of Claims" form which shall be completed and returned before the retention will be released.

3-13.3 Warranty. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. You shall warranty and repair all defective materials and workmanship for a period of 1 year. This call back warranty period shall start on the date the Work was accepted by the City unless the City has Beneficial Use or takes Occupancy of the project earlier (excluding water, sewer, and storm drain projects).
2. You shall warranty the Work free from all latent defects for 10 years and patent defects for a period of 4 years.
3. The warranty period for specific items covered under manufacturers' or suppliers' warranties shall commence on the date they are placed into service at the direction of the Engineer in writing.
4. All express warranties from Subcontractors, manufacturers', or Suppliers', of any tier, for the materials furnished and Work performed shall be assigned, in writing, to the City, and shall be delivered to the Engineer prior to the Acceptance of your performance of the Contract.
5. Replace or repair defective materials and workmanship in a manner satisfactory to the Engineer after notice to do so from the Engineer and within the time specified in the notice. If you fail to make such replacements or repairs within the

time specified in the notice, the City may perform the replacement or repairs at your expense. If you fail to reimburse the City for the actual costs, your Surety shall be liable for the cost

6. Items that shall be warrantied free from defective workmanship and materials for a period longer than 1 year are as follows:

Specified Item	Minimum Warranty Period
Detectable Warning Tile Construction	3 Years of Manufacturer's Warranty
All Work Under SECTION 500 – PIPELINE REHABILITATION	3 Years
Fiber Optic Interconnect Cables	2 Years
Luminaires*	10 Years of Manufacturer's Warranty
LED Signal Modules	3 Years of Manufacturer's Warranty
Field Devices Associated with 700-6.3, "Adaptive Control Note"	See 700-6.3.9, "Warranty"

* Provide documentation verifying that the induction luminaire models being offered for the Project are covered by the 10 year warranty.

7. If installed, you shall provide the City and property owner a copy of the manufacturer's warranty for private sewer pumps, including the alarm panel and all other accessories.
- a) You shall involve the manufacturer in the installation and startup as needed to secure any extended warranty required.
 - b) Nothing in here is intended to limit any manufacturer's warranty which provides the City with greater warranty rights than set forth in this section or the Contract Documents.
 - c) The warranty shall include all components. The form of the warranty shall be approved by the Engineer in accordance with 3-13.3.2, "Warranty Format Requirements".
8. If, during the warranty period, any item of the Work is found to be Defective Work, you shall correct it promptly after receipt of written notice from the City to do so. The warranty period shall be extended with respect to portions of the Work corrected as part of the warranty requirements.

3-15.2 Integration of the Work with Separate Contractors. To the "WHITEBOOK", ADD the following:

2. The list of Separate Contractors includes:
- a) North City Pure Water Facility, Limits of Work- Work associated with this project is within the Pure Water Facility footprint, Contractor- TBD, City Project Manager-Anthony Van (858) 292-6492.

- b) Flow Equalization Basin, Limits of Work- Work associated with this project is within the NCWRP footprint, Contractor- TBD, City Project Manager-Monika Smoczynski (858) 292-6455.
- c) Morena Pump Station and pipeline construction packages (4 different construction packages) - Contractors- TBD, City Project Manager- Juan Elli Bermudo (858) 614-5802.
- d) Metropolitan Biosolids Center Improvements, Limits of Work – Work associated with this project is withing the Metropolitan Biosolids Center facility, Contractor – TBD, City Project Manager – Lubna Arikat,(858) 292-6419.

3-15.3 Coordination. To the “WHITEBOOK”, ADD the following:

- 2. Other adjacent City projects are scheduled for construction for the same time period in the vicinity of this project. See **Appendix E – Adjacent Projects Map** for the approximate location. Coordinate the Work with the adjacent projects as listed below:
 - a) North City Pure Water Facility, Limits of Work- Work associated with this project is within the Pure Water Facility footprint, Contractor- TBD, City Project Manager-Anthony Van (858) 292-6492.
 - b) Flow Equalization Basin, Limits of Work- Work associated with this project is within the NCWRP footprint, Contractor- TBD, City Project Manager-Monika Smoczynski (858) 292-6455.
 - c) Morena Pump Station and pipeline construction packages (4 different construction packages) - Contractors- TBD, City Project Manager - Juan Elli Bermudo (858) 614-5802.
 - d) North City Pure Water Pipeline, Limits of Work – Work associated with this project is within the Eastgate Mall roadway, Contractor – TBD, City Project Manager - Fabiola Amarillas, (619) 533-5437.
 - e) SDG&E 10-inch Diameter High Pressure Gas Relocation and ED-20 Transformer Relocation, Limits of Work – Work associated with these utility relocations is located at Eastgate Mall roadway, Contractor – TBD, City Project Manager - Anthony Van, (858) 292-6492.

SECTION 4 - CONTROL OF MATERIALS

ADD:

4-1.1 American Iron and Steel (AIS).

- 1. The Consolidated Appropriations Act, 2014, includes an “American Iron and Steel (AIS)” requirement in section 436 that requires this project, funded via the Clean Water State Revolving Loan Fund (CWSRF) and/or the Drinking Water State Revolving Loan Fund (DWSRF) to use iron and steel products that are produced

in the United States for projects for the construction, alteration, maintenance, or repair of a public water system.

2. You acknowledge to and for the benefit of the City of San Diego and the State Water Resource Control Board that you understand the Work under this Contract is being funded with monies made available by the Clean Water State Revolving Fund and/or Drinking Water State Revolving Fund that have statutory requirements commonly known as "American Iron and Steel" that requires all of the iron and steel products used for construction to be produced in the United States including iron and steel products to be provided by you. You hereby warrant to and for the benefit of the City and the State that:
 - a) You have reviewed and understand the American Iron and Steel Requirement,
 - b) All of the iron and steel products used in the project will be and/or have been produced in the United States in a manner that complies with the American Iron and Steel Requirement with required certification (for sample certification letters, refer to **Appendix G**, unless a waiver of the requirement is approved, and;
 - c) You will provide any further verified information, certification or assurance of compliance with this paragraph, or information necessary to support a waiver of the American Iron and Steel Requirement, as may be requested by the City or the State.
3. The additional information below is being provided for reference and guidance to ensure that you comply with all requirements set forth by the CWSRF and/or DWSRF Loans:
 - a) Refer to the following EPA website:

<http://www.epa.gov/cwsrf/state-revolving-fund-american-iron-and-steel-ais-requirement>

- b) The United States Environmental Protection Agency's Memorandum dated March 20, 2014 entitled, "Implementation of American Iron and Steel Provisions of P.L. 113-76, Consolidated Appropriations Act, 2014":

<https://www.epa.gov/sites/production/files/2015-09/documents/ais-final-guidance-3-20-14.pdf>

4. Your failure to comply with this provision shall permit the City or State to recover damages against you for any loss, expense, or cost (including without limitation attorney's fees) incurred by the City or State resulting from any such failure (including without limitation any impairment or loss of funding, whether in whole or in part, from the State or any damages owed to the State by the City). Although you have no direct contractual privity with the State, as a lender to the City for the funding of this project, you and the City agree that the State is a third-party beneficiary and neither this provision (nor any other provision of this Contract necessary to give this provision force or effect) shall be amended or waived without the prior written consent of the State.

5. Notwithstanding any other provision of this Agreement, any failure to comply with this paragraph by the Contractor shall permit the Purchaser or the EPA to recover as damages against the Contractor any loss, expense, or cost (including without limitation attorney's fees) incurred by the Purchaser or the EPA resulting from any such failure (including without limitation any impairment or loss of funding, whether in whole or in part, from the EPA or any damages owed to the EPA by the Purchaser). While the Contractor has no direct contractual privity with the EPA, as a lender to the Purchaser for the funding of its project, the Purchaser and the Contractor agree that the EPA is a third-party beneficiary and neither this paragraph (nor any other provision of this Agreement necessary to give this paragraph force or effect) shall be amended or waived without the prior written consent of the EPA.

4-3.4 Special Inspection. To the "WHITEBOOK", ADD the following:

5. No special inspection shall be performed by the Contractor. The Contractor is not required to pay for special inspection unless due to the circumstances detailed in Technicals, Section 01 45 33.

4-3.6 Preapproved Materials. To the "WHITEBOOK", ADD the following:

3. You shall submit in writing a list of all products to be incorporated in the Work that are on the AML.

4-6 TRADE NAMES. To the "WHITEBOOK", ADD the following:

11. You shall submit your list of proposed substitutions for an "equal" item no less than **15 Working Days prior to the bid due date** and on the City's Product Submittal Form available at:

<https://www.sandiego.gov/ecp/edocref/>

SECTION 5 – LEGAL RELATIONS AND RESPONSIBILITIES

ADD:

5-3.6 Project Labor Agreement (PLA). The Contractor and all subcontractors agree to be bound by the Project Labor Agreement (which is attached as Attachment I and incorporated by this reference) by submitting a Letter of Assent to the City's Labor Coordinator. The Contractor shall submit its Letter of Assent as a condition of award and all subcontractors shall submit their Letter of Assent before commencing any Work on the Project.

5-4 OWNER-CONTROLLED INSURANCE PROGRAM.

5-4.1 General Requirements.

1. The City has implemented an Owner-Controlled Insurance Program (OCIP) for its Pure Water Projects. In this OCIP, the City furnishes Workers' Compensation, General, Excess, Pollution Liability and Builder's Risk insurance associated with construction of the Work. Insurance furnished under the OCIP covers the City, the Contractor, and the Contractor's subcontractors of all tiers with exceptions stated

below. As detailed in Section 5-4.17 and 5-4.18, Contractor and subcontractors still provide some insurance coverage under the OCIP.

2. Bidders, as well as their subcontractors with a subcontract amount of greater than one half of one percent of the Contractors bid amount, shall exclude from bids the costs of insurance for risks covered under the OCIP.
3. Bidders, as well as their subcontractors with a subcontract amount of greater than one half of one percent, shall determine the OCIP coverage credit by utilizing the OCIP Credit Worksheets attached herein under **Section 6. CERTIFICATIONS AND FORMS.**
4. OCIP enrollment is mandatory for contractors/subcontractors with contracts valued at \$10,000 or greater or onsite labor of three days or more. For contracts under \$10,000 in value, should there be any potential for additive change orders thereby increasing the contract value to \$10,000 or greater, the contractor/subcontractor must enroll in the OCIP.
5. Bidders, as well as all of their subcontractors, with a subcontract amount of greater than one half of one percent of the Contractors bid amount, shall complete OCIP credit worksheets provided as part of the bid documents attached herein. Bidders shall submit, as well as OCIP credit worksheets obtained from all their subcontractors, the OCIP credit worksheets two business days after bid opening. **Compliance with OCIP credit worksheet requirements shall be a condition for award.**
6. Contractor shall still maintain minimum insurance outside of OCIP as defined in Section 5-4.17.
7. The payment for obtaining and maintaining non-OCIP insurances and coordination of all OCIP requirements, including safety requirements, shall be included in the Contract Price.
8. OCIP related manuals mentioned in Section 5-4 and 5-7 can be downloaded from the following link:

<https://drive.google.com/file/d/1bHgAkna4ws7vL229rEO75ITpr2wQ4qNM/view>

5-4.2

OCIP Definitions.

1. The following definitions apply to the OCIP program:
 - a) Claim – A covered loss asserted under the OCIP insuring policy(s).
 - b) OCIP Deductible Assessment – The amount the Enrolled Contractor is responsible for paying as its contribution for settlement of any loss that is chargeable to the Contractor, or its subcontractors. The deductible shall be paid in a proportional amount between the Contractor and subcontractor, as determined by responsibility of the party causing the loss, by the OCIP insurance carrier.
 - c) Enrolled Contractors – The Contractor and any Subcontractor who have submitted all necessary enrollment information and have received confirmation letter, as well as certificates of insurance evidencing OCIP

coverage as issued from the OCIP administrator. Enrollment date shall be established by the date on the certificate of insurance.

- d) Excluded Parties: - The following parties shall not be enrolled in the OCIP:
 - i) Heavy or structural demolition utilizing wrecking balls or explosives
 - ii) Hazardous materials remediation, removal or transport companies and their consultants.
 - iii) Architects, surveyors, engineers, soil testing engineers and their respective consultants.
 - iv) Vendors, suppliers, fabricators, materials dealers, truckers, haulers, drivers and others who merely transport, pickup, deliver, or carry materials, personnel, parts or other equipment to and from the Job Site.
 - v) Any parties or entities not specifically designated by the City at its sole discretion, even if otherwise eligible.
 - vi) Subcontractors work with a value of less than \$10,000, unless their work extends to be greater than three days of work or more
- e) Insured Party - Contractor, the Contractor's subcontractors, officers, employees and agents, the City and the City's officers, employees, contractors and agents as enrolled in the OCIP, except any Uninsured Party.
- f) OCIP Administrator - The person or insurance broker firm designated by the City with responsibility for administration of the OCIP, including claims.
- g) OCIP Coverage – the insurance coverages generally described in Sections 5-4.3, through 5-4.10 of this Section and set forth more fully in the policies of insurance or forms of policies of insurance on file with the City's Public Utilities Department.
- h) Uninsured Party - Any person, partnership, corporation, or other business entity performing work under the Contract that is not an Insured Party under the OCIP.

5-4.3 OCIP Insurance Provided By The City.

1. Before commencement of the work, the City will obtain OCIP insurance coverage. Insured Parties will be enrolled in the OCIP according to the policies of OCIP insurance coverage.
2. The Contractor and the Contractor's subcontractors, officers, employees and agents, except for Excluded Parties as defined in Section 5-4.2 (d), will be Insured Parties with OCIP Coverage solely as to risks at the job site.
3. The City assumes no obligations to provide insurance other than OCIP Coverage.
4. The City does not warrant or represent that the OCIP Coverages constitute an insurance portfolio that adequately addresses all of the Contractor's risks under the contract documents. Nothing in this Section shall be construed to relieve the Contractor of any risk or obligation under the contract documents.
5. The OCIP Coverages are set forth in full in the respective policy forms and are on file with the City's Public Utilities Department. Nothing in this section is intended to

alter or amend any provision of the OCIP Coverage policies. In the event of an actual conflict between the descriptions of coverage contained in this Section and the coverage provided under the policies, the provisions of the policies shall govern.

5-4.4 Information To Be Provided By Successful Bidder After Contract Award.

1. Within 15 working days from the mailing date of the Notice of Intent to Award of Contract, the successful bidder shall complete and return to the OCIP Administrator the "OCIP Insurance Enrollment Form," and provide such other information as the Project Manager or OCIP insurance carriers deem necessary. Each subcontractor shall complete the OCIP Insurance Enrollment Form and return such forms to the successful bidder for submission with, and attachment to, its form.
2. Each subcontractor shall complete the OCIP Insurance Enrollment Forms and submit to the successful bidder for submission to the OCIP Administrator not less than two weeks before the date they are scheduled to begin work. Failure to submit the information within the time required may delay the subcontractor's ability to commence work.
3. Contractor shall ensure that each subcontractor on the Work site for whom OCIP coverage is provided has received confirmation of such coverage from the OCIP Administrator before commencement of the subcontractor's work.
4. The City will review the OCIP documents submitted by the Contractor within 15 days of their submittal. Any deficiencies noted shall be corrected by the Contractor within five days of its receipt of the returned documents. The City will endeavor to issue a Limited Notice to Proceed within 60 working days of the mailing date of the Notice of Award however, failure to complete and return the documents identified in this paragraph within the time provided may delay the City's issuance of the Limited Notice to Proceed, or result in forfeiture of the successful bidder's bid bond and award of contract to the next lowest bidder.

5-4.5 OCIP Workers' Compensation Insurance And Employers Liability.

1. Coverage for workers' compensation insurance will comply with statutory limits of the workers' compensation laws of the State of California, with Coverage B - Employer's Liability, to limits of not less than one million dollars (\$1,000,000) each accident, one million dollars (\$1,000,000) each employee for bodily injury by disease, and one million dollars (\$1,000,000) policy limit for bodily injury by disease covering operations of the insured parties at the Work site. Coverage under the Broad Form All States extension is also included. This insurance is primary for all occurrences at the jobsite only.
 - a) Named Insured: Contractor and subcontractors of all tiers Enrolled in OCIP
 - b) Insurer: Zurich
 - c) A.M. Best Rating: AXV
 - d) Policy Term: Per Effective Date of each Enrolled Contractor, as defined above, to the earliest of each Enrolled Contractor Work completion, or at 12:01 AM, 7/21/25
 - e) Policy Form: Per CA statutory requirements

5-4.6

OCIP General And Excess Liability Insurance.

1. General and Excess liability will be provided under Commercial General Liability insurance policy(s) and covering the insured parties in connection with the performance of the work at the jobsite, that includes hazards of operations (including explosion, collapse, and underground coverage), elevators, independent contractors, employees as additional insureds, completed operations with a ten (10) year extended discovery period after substantial completion of the work, contractual liability coverage (for contracts related to the work), personal injury liability coverage, and excess Employer's Liability coverage for claims arising out of the work hereunder, for personal injury, bodily injury, and property damage, in policies of insurance such that the total available limits to all insureds combined will not be less than one hundred million dollars (\$150,000,000) combined single limits for each occurrence and aggregates, as applicable.
 - a) Named Insured: City, Contractor and subcontractors of tiers Enrolled in OCIP.
 - b) Insurer: HDI
 - c) A.M. Best Rating: AXV
 - d) Policy Term: July 21, 2019 to July 21, 2025, Plus 10 years Completed Operation Coverage
 - e) Policy Form: Occurrence
 - f) Limits: General Liability

Coverage	Limit
Per Occurrence	\$2,000,000
Personal & Advertising Injury Limit	\$2,000,000
General Annual Aggregate*	\$4,000,000
Completed Operations Term Aggregate**	\$4,000,000

NOTE: * All aggregate limits reinstate annually.

** 10 year Completed Operations has single aggregate

EXCESS LIABILITY

- g) Coverage: Follow form excess liability (terms and conditions, exclusions, etc.) of the underlying Commercial General Liability and Employers Liability policy wording.
- h) Named Insured: City, Contractor and subcontractors of tiers Enrolled in OCIP.
- i) Insurer(s): See Below
- j) A.M. Best Rating: AXV
- k) Policy Term: 7/21/19 to 7/21/25
- l) Policy Form: Follow - Form
- m) Limits: Layered to \$154M.

Layer No.	Insurer	Policy Number	Shared Limit by all Enrolled Contractors	Cumulative Limits
1	AWAC		\$10M excess \$2M/\$4M	\$12M Each Occurrence \$14M Aggregate
2	CHUBB		\$15M excess \$27M/\$29M	\$27M Each Occurrence \$29M Aggregate
3	Liberty		\$25M excess \$27M/\$29M	\$52M Each Occurrence \$54M Aggregate
4	Great American		\$50M excess \$52M/\$54M	\$102M Each Occurrence \$104M Aggregate
5	Zurich		\$50M excess \$102M/\$104M	\$152M Each Occurrence \$154M Aggregate

5-4.7 Contractors Pollution Liability.

Contractor’s pollution liability shall include contractual liability coverage for liability arising out of cleanup, removal, storage, or handling of hazardous or toxic chemicals, materials, substances or any other pollutants resultant from the worksite.

1. Named Insured: City, Contractor and subcontractors of tiers Enrolled in OCIP.
2. Insurer: Ironshore
3. A.M. Best Rating: AXV
4. Policy Term: July 21, 2019 to July 21, 2025
5. Policy Form: Occurrence
6. Limits: \$50,000,000 per occurrence and Aggregate

5-4.8 OCIP Deductibles – General/ Excess And Pollution Liability.

1. Notwithstanding the actual policy deductibles per occurrence, the Contractor shall be liable for a \$15,000 (fifteen thousand) dollar deductible for each occurrence, to the extent losses payable are attributable to the Contractor’s acts or omissions or the acts or omissions of Contractor’s officers, employees, subcontractors or agents, or Uninsured Parties providing equipment, materials, supplies or services for the Work. The Contractor's deductible shall encompass the costs of investigation and defense, including court costs and attorneys' fees.
2. Any deductible amount will be invoiced to the Contractor by separate billing. If not paid within 30 calendar days of notice, the amount will be withheld from the next progress payment. Any payment of a deductible amount per occurrence by the Contractor shall not be compensable to Contractor by the City.

3. Each claim, without regard to the amount claimed, shall be reported by the Contractor to the Project Manager, OCIP administrator and the insurance company. The insurance company will adjust the claim on behalf of the Insured Parties. Insurance company will determine if there is proportional responsibility for the loss between the contractor and subcontractor, and such determination will provide the basis for payment of the deductible between the contractor and subcontractor.

5-4.9 OCIP Builder's Risk Insurance.

1. OCIP Coverage for builder's risk will provide coverage on an all-risk basis, including coverage against fire, flood, lightning, wind damage, hail, explosion, collapse, offsite storage and in-transit, and installation risks of equipment to be installed as part of the work. Earthquake coverage is not included. The policies for such insurance will be secured and maintained by the City in a form and amount consistent with such coverage commonly purchased for large construction projects. The Contractor's coverage for Builder's Risk shall be per contract value with no aggregate.
2. Coverage shall include materials, supplies, and equipment that are intended for specific installation in the work while such materials, supplies, and equipment are located at the jobsite, in transit, or while temporarily located away from the Work site for the purpose of repair, adjustment, or storage at the risk of one of the insured parties.
3. Except as otherwise provided in Subsection 5-4.9 (2), this insurance will not include coverage for tools or clothing of workers, or Contractor's equipment.
4. The Builder's Risk policy will be endorsed waiving the carrier's rights of recovery under subrogation against the other Insured Parties.

5-4.10 OCIP Builders Risk Deductibles.

1. Notwithstanding the actual policy deductible, the Contractor shall be liable for the first \$50,000 (fifty thousand) of loss for each occurrence. Flood/Water and LEG3 deductible is \$50,000 (fifty thousand) The Contractor may insure deductible risk at the Contractor's discretion and cost.
2. Each claim without regard to the amount claimed shall be reported by the Contractor to the OCIP Administrator and the insurance company. The insurance company will adjust the claim on behalf of the Insured Parties. Insurance company will determine if there is proportional responsibility for the loss between the contractor and subcontractor, and such determination will provide the basis for payment of the deductible between the contractor and subcontractor.
3. Payments by the insurer for all losses covered under the All Risk Builder's Risk policy will be made to the City. The City will make the proceeds from the Builder's Risk policy covered losses available to the Contractor for rebuilding work damaged by covered perils.

5-4.11 No Waiver of Contract Obligations.

1. Nothing contained herein or in any document referenced herein shall relieve, limit, or be construed to relieve or limit the Contractor from any liability or obligations otherwise imposed by the contract documents.

5-4.12 Change Orders.

1. Change orders shall include the removal of OCIP provided insurance costs from the Contractor's costs associated with the change order. Contractor shall specifically identify the OCIP insurance costs associated with the change order.
2. Contractor is solely responsible for ensuring that its subcontractors remove the cost of OCIP insurance coverage associated with the change order.

5-4.13 The City's Right To Audit OCIP.

The Contractor hereby warrants to the City the accuracy of the information provided on the OCIP Insurance Enrollment Form and OCIP Credit Worksheets, and agrees that the City, its officers, agents, insurance carriers, and the OCIP Administrator may audit the records of the Contractor and its subcontractors to confirm the accuracy of information provided, including the accuracy of all estimated payrolls, and to ascertain any effect on insurance resulting from changes in the work. The audit will be held during the Contractor's normal business hours at the office of the Contractor or at another mutually agreeable location. This provision is supplemental to 2018 Whitebook Section 6-10, "RIGHT TO AUDIT".

1. The City shall be entitled to credits in OCIP insurance premiums that may accrue as a result of the audit. The Contractor shall also be entitled to any credits as a result of the audit for any OCIP premiums paid in excess of their OCIP Credit Worksheets.
2. The Contractor shall maintain or cause to be maintained sufficient records as may be necessary to audit its compliance and its subcontractors' compliance with the requirements of the OCIP.

5-4.14 Assignment.

1. The Contractor and each of its subcontractors shall assign to the City all return premiums, premium refunds, dividends, and other monies due in connection with the insurance provided by the City. The Contractor and its subcontractors shall execute such other further documentation as may be required by the City to effect this assignment.

5-4.15 OCIP Claims.

1. The Contractor, its subcontractors, and uninsured parties shall assist the City, its agents, and the OCIP Administrator and shall provide the utmost cooperation in the adjustment of claims arising out of the operations conducted under, or in connection with, the work and shall cooperate with the City's insurance carriers in claims and demands that arise out of the work and that the insurance carriers are called upon to adjust or resist.
2. The Contractor and its subcontractors shall make every effort to provide modified work for injured workers who have been placed on modified duty status as a result of a Workers' Compensation injury or illness covered under this OCIP.

5-4.16 Limit of OCIP Coverages.

1. The City does not warrant or represent that the OCIP coverages constitute an insurance portfolio that adequately addresses the risk faced by the Contractor or its subcontractors. The Contractors and its subcontractors shall satisfy themselves as to the existence, extent, and adequacy of the OCIP coverages before the commencement of work under the Contract.
2. The OCIP coverages referred to above are set forth in full in the respective policy forms, and the foregoing descriptions of such policies are not intended to be complete, or to alter or amend any provision of the actual policies. In the event of an actual conflict between the foregoing descriptions of policies with such instruments, the provisions of the insurance policies shall govern.

5-4.17 Contractor Provided Insurance That Is Not Covered By The OCIP Insurance.

1. The OCIP does not provide the insurance policies for auto liability coverage and aircraft liability coverage. In addition, the City requires that any excluded party under OCIP who is performing work to have the required insurance listed in this section. The Contractor shall procure and maintain during the period of performance of this Contract and for 12 months following completion, insurance from insurance companies authorized to do business in the State of California, as set forth in this Section. These policies shall be primary insurance as to the City so that any other coverage held by the City shall not contribute to any loss under the Contractor's insurance. Coverage may be provided by a combination of primary and excess insurance policies, provided all insurers meet the requirements of this Section.
2. The Contractor shall obtain and maintain insurance following insurance coverages in the amounts as follows:
 - a) General Commercial Liability -- \$5,000,000 for any excluded party, any subcontractor who fails or losses enrollment in the OCIP. Coverage at least as broad as ISO form CG 00 01 10 01 or its equivalent, with no exclusion endorsements.
 - b) Automobile Liability -- \$5,000,000 Coverage at least as broad as ISO form CA 00 01 10 01, for "any auto," including owned, non-owned and hired vehicles
 - c) Aircraft Liability: If aircraft is used by the Contractor, its subcontractors, or anyone else on their behalf, the Contractor or its subcontractor shall maintain or cause the operator of the aircraft to maintain aircraft public liability insurance insuring passengers and the general public against personal injury, bodily injury, or property damage arising from aircraft owned, used, operated or hired in connection with the work by the Contractor, subcontractor, or anyone else in limits of not less than ten million dollars (\$10,000,000) combined single limit for each occurrence, for each aircraft.
 - d) Workers' compensation and employer's liability: Coverage shall comply with the laws of the State of California, but an employer's liability limit of less than \$1,000,000 is not permitted. The Contractor may satisfy this

requirement by proof of an approved self-insurance program under California law.

3. Any insurance policy utilizing a self-insured retention is subject to approval by the City. Contractor shall be solely responsible for the payment of any self-insured retention, however, any self-insured retention policy obtained by either the contractor, or any tier of sub-contractor, shall be endorsed to provide that the self-insured retention may be satisfied by either the named, additional insured, or City covered under the policy.
4. The insurance policies shall be endorsed as follows:
 - a) For general commercial liability and automobile insurance, as well as excess or umbrella insurance covering risks within the scope of that type insurance, the City, its Council Members, officers, employees and agents are included as additional insureds with regard to liability and defense of suits or claims arising from the operations, products and activities performed by or on behalf of the Named Insured. The Contractor's insurance applies separately to each insured, including insureds added pursuant to this paragraph, against whom claim is made or suit is brought except with respect to the policy limits of liability. The inclusion of any person or entity as an insured shall not affect any right which the person or entity would have as a claimant if not so included. Any failure of the named insured to comply with reporting provisions of the policy or breaches or violations of warranties shall not affect coverage provided to the insureds added pursuant to this paragraph. The additional insured endorsement shall provide coverage at least as broad as ISO form CG 20 10 11 01 and CG 20 37 10 01
 - b) The Contractor's insurance shall be primary. Any other insurance or self-insurance available to the City or persons stated in paragraph (1) shall be in excess of and shall not contribute to the Contractor's insurance.
 - c) The Contractor's insurance shall not be canceled or materially reduced in coverage except after 30 days prior written notice has been given to the City, except 10 days' notice shall be allowed for non-payment of premium.
 - d) The workers' compensation and employer's liability insurance, and any property insurance shall be endorsed to include a waiver by the insurer all rights of subrogation against the City and other persons specified in paragraph (1) for losses paid under the terms of the insurance policy. Any of the Contractor's off-site insurance requirements shall not have the provision of naming the City as loss payee.
5. Unless otherwise specified by supplemental condition, the insurance shall be provided by an acceptable insurance provider, as determined by the City, which satisfies the following minimum requirements: An insurance carrier authorized to do business in California and maintaining an agent for process within the state. Such insurance carrier shall maintain a current A.M. Best rating classification of "A-(A minus)" or better and a financial size of \$50 million to \$100 million (Class VII) or better, or a Lloyds of London program provided by syndicates of Lloyds of London and other London insurance carriers, providing all participants are qualified to do

business in California and the policy provides for an agent for process in the state and the program assures a financial capability at least equal to the required classification and size for authorized insurers. Workers' compensation and employer's liability insurance may be provided the California State Compensation Fund.

6. Certificates of insurance and endorsements shall be provided by the Contractor and approved by the City before execution of the Contract.

5-4.18

Subcontractors Proof of Insurability Requirement Under OCIP.

1. As a requirement of the OCIP Program, all subcontractors shall demonstrate insurability to the satisfaction of the OCIP Administrator as follows:
 - a) Commercial General Liability -- \$1,000,000
 - b) Automobile Liability - \$1,000,000
 - c) Workers' Compensation and employer's liability – as required by California law with employer's liability of not less than \$1,000,000
2. The Contractor shall be responsible for obtaining proof of insurability from its subcontractors and providing the information to the OCIP Administrator, as well as for assuring that all its subcontractors comply with the requirements of the OCIP Program.

5-4.19

Notices, Costs, And Losses – OCIP.

1. Before the date on which the Contractor or any subcontractor begins performance of its part of the work, the Contractor shall cause to be furnished to the OCIP Administrator certificates of insurance for insurance required to be maintained by the Contractor and its subcontractors as provided herein. The Contractor shall not be allowed and shall not allow subcontractors on the jobsite for the performance of work until appropriate certificates of insurance are issued by the OCIP Administrator.
2. The City will pay the cost of the OCIP insurance premiums for the insurance described above as being provided by the City, and the City will receive or pay, as the case may be, all adjustments in such costs, whether by way of dividends or otherwise. All enrolled Contractors, and Subcontractors, shall assign to the City all adjustments, premium discounts, dividends, costs or other monies due for the OCIP insurer(s).
3. The cost of losses sustained because of clauses that specify the Contractor deductible amounts in any of the insurance policies furnished by the City shall be paid by the Contractor. If the City-provided OCIP policies described in Sections 5-4.6., 5-4.7 and 5-4.9 have deductible amounts greater than the Contractor-deductible amounts, such excess amounts will be paid by the City provided that the Contractor shall be responsible for losses greater than OCIP policy limits.
4. Require its subcontractors to waive the rights of recovery in the same manner as waived in the employees, and Contractors rendering services at the Work site, the Contractor, other Project contractors, and their subcontractors regardless of tier.

5-4.20**Contractor Obligations Under OCIP.**

1. The Contractor shall:
 - a) Provide OCIP Coverage enrollment information as required by the City. Furnish to the OCIP Administrator and the insurance carriers all information and documentation that the OCIP Administrator may require from time to time in connection with the issuance of policies under this Contract, in such form and substance as the OCIP Administrator may prescribe.
 - b) Furnish to the OCIP Administrator monthly payroll reports on the form provided by OCIP Administrator, and payroll records as required.
 - c) Segregate their respective reports relating to the work for which OCIP coverage is herein provided from their records relating to other work for which such coverage is not provided.
 - d) Promptly comply with the policy requirements of the OCIP insurance carriers as submitted through the Project Manager.
2. The Contractor shall not violate or knowingly permit any subcontractor to violate any conditions of the policies of insurance provided by the City under the terms of the Contract and shall at all times satisfy the requirements of the insurance companies issuing them.
3. The Contractor shall assure that all OCIP requirements imposed upon and to be performed by the Contractor shall likewise be imposed upon, assumed, and performed by each of its subcontractors and uninsured parties with whom it or its subcontractors have a contractual relationship.
4. The Contractor shall furnish each bidding and negotiating subcontractor, vendor, supplier, material dealer, or other person or business entity that may provide goods or services in connection with the work a copy of this Section describing the insurance requirements for the Contractor and its subcontractors shall require each to impose the same requirement in their subcontracting and procurement procedures.
5. If the Contractor or any of its subcontractors should fail to comply with the requirements of this Section, the City may withhold payments due to the Contractor or suspend the work until such time as the Contractor and its subcontractors have performed such obligations to the reasonable satisfaction of the Project Manager.
6. The Contractor shall include in the bid price the cost of complying with the OCIP as herein described.
7. Failure of the Contractor to enroll any sub-contractor of any tier in the OCIP, or to allow any sub-contractor to begin work on-site without proof of enrollment, shall constitute a breach of the OCIP insurance requirements. As such, all work performed by the sub-contractor, or any accident or injury as a result of the sub-contractor's activity, shall be considered an uninsured risk under the OCIP coverage. No OCIP insurance coverage of any line of insurance described in this document, shall extend coverage to the conditions described above.

5-4.21 OCIP Insurance Manual.

1. The OCIP Administrator will provide an OCIP Insurance Manual that will describe procedures relevant to the OCIP to the Contractor. The Contractor and its subcontractors are required to comply with the procedures therein described.

5-4.22 Alternative Insurance.

1. In the event the City is unable to furnish, or after commencement of work elects not to furnish or to continue to furnish the OCIP coverage herein described, and upon 30 days written notice from the City, the Contractor shall secure insurance as required under the Section 5-4.17 with limits as specified below (2). The Contractor shall be allowed a change order for increased costs of insurance that were excluded from the bid as required by this Supplemental Condition.
2. The coverage limits for insurance required pursuant to paragraph (a), and also for coverage not provided by OCIP Coverage such as automobile liability, shall be as follows:
 - a) Commercial General Liability -- \$50,000,000 annual aggregate renewal
 - b) Contractors Pollution Liability - \$10,000,000 annual aggregate
 - c) Automobile Liability -- \$5,000,000
 - d) Workers' Compensation and employer's liability - as required by California law with employer's liability of not less than \$1,000,000
 - e) Builder's Risk – Contract Value
 - f) Aircraft Liability: If aircraft is used by the Contractor, its subcontractors, or anyone else on their behalf, the Contractor or its subcontractor shall maintain or cause the operator of the aircraft to maintain aircraft public liability insurance insuring passengers and the general public against personal injury, bodily injury, or property damage arising from aircraft owned, used, operated or hired in connection with the work by the Contractor, subcontractor, or anyone else in limits of not less than \$10,000,000 combined single limit for each occurrence, for each aircraft.

5-4.23 Accident Reports And Claims.

1. Contractor shall immediately report (as soon as feasible, but not more than 24 hours after occurrence) to the City any accident or other occurrence causing injury to persons or property during the performance of this Contract. If required by the City's Risk Management Department, the report shall be made in writing and shall include, at a minimum:
 - a) the names, addresses, and telephone numbers of the persons involved,
 - b) the names, addresses and telephone numbers of any known witnesses,
 - c) the date, time and description of the accident or other occurrence.
2. All claims for damages, losses, expenses and other costs, received by the Contractor or the City, arising out of or resulting from or in connection with the performance of the Work shall be acknowledged by the Contractor by sending

written notice to the claimant within 10 days of the Contractor's receipt of the claim. The written notice shall either:

- a) confirm the Contractor's responsibility for damages and losses, and intent to pay or settle claim directly with the claimant; or
 - b) confirm the Contractor's responsibility for prompt investigation and processing of the claim, including identifying the Contractor's insurance carrier and claims adjuster, describing the Contractor's or insurance carrier's procedure for investigating and processing of the claim, and providing a name and telephone number for contacting the representative of the Contractor. A copy of the written notice of claim shall be delivered to the Project Manager. Should the Contractor state his intent to pay or settle the claim directly with the claimant, payment or settlement shall be made within 45 working days of receipt of the claim. Claims to be submitted to the Contractor's insurance carrier shall be forwarded to the insurance carrier within 30 calendar days of receipt of the claim. Failure by the Contractor to send the written notice of claim, or to notify the Project Manager of any claim, shall be cause for the City to withhold payments to the Contractor.
3. The City shall have full authority to compromise or otherwise settle any claim related to the Contract at any time. The City will notify the Contractor of the receipt of any third-party claim arising from or relating to the Work within 14 working days of the receipt of the claim by the City. The City shall be entitled to recover its reasonable costs incurred in providing the Contractor timely notification of third-party claims. Neither this Section nor the City's failure to give notice shall limit the City's ability to compromise or settle any claim.

5-4.24 Additional Insurance Provisions.

1. Nothing in Section 5-4 shall be construed to limit or qualify the liabilities and obligations otherwise assumed by the Contractor pursuant to this Contract, including but not limited to the provisions relating to indemnity and warranty.
2. The City may require the Contractor to provide complete copies of all insurance policies required by Section 5-4.
3. If at any time, the Contractor fails to maintain in full force any insurance required by the Contract, the City may acquire the necessary insurance for the Contractor and deduct the cost thereof from any payment due the Contractor.

PURE Program OCIP – Insurance Coverage by Project Segment Summary

Project Name: **North City WRP Expansion and Pump Station**

Owner Controlled Insurance Program Insurance coverage provided for Contractor			Contractor/Sub-Contractor Insurance Requirements by type of insurance and limits still required under OCIP		
Type	Limit	Deductible	Contractor	Limit	Self-Insured Retention
General Liability	\$150M	\$15K	General Liability	\$5M	Needs Approval
Automobile Liability**	N/A	N/A	Automobile Liability	\$5M	Needs Approval
Workers Compensation	CA Statutory - \$1M employers Liability	N/A	Workers Compensation	CA Statutory - \$1M employers Liability	
Pollution Liability*	\$50M		Pollution Liability*	N/A	N/A
Builders Risk***	Contract Value	\$50K	Builders Risk*	N/A	N/A
*Indicates shared limit among all Pure projects, per project limit applies **N/A indicates not provided by OCIP coverage *** AOP deductible per occurrence with no aggregate – deductible limit for Flood/Water and LEG3 is \$50K			Sub-Contractor	Limit	Self-Insured Retention
			General Liability	\$1M	Needs Approval
			Automobile Liability	\$1M	Needs Approval
			Workers Compensation	CA Statutory - \$1M employers Liability	
			Pollution Liability*	N/A	N/A
			Builders Risk*	N/A	N/A

Contractor Insurance Required if OCIP is unavailable at commencement of work or cancelled after construction has begun			General Notes – Pure Water OCIP Coverage North City WRP Expansion and Pump Station
Type	Limit	Self-Insured Retention	1) Contractor obligation for payment of the deductible under the OCIP coverage is triggered by insurance carrier acceptance of claim. 2) At issuance of the Notice to Proceed, the shared OCIP coverage limits remain at 100% of the values stated above.
General Liability	\$50M	Needs Approval	
Automobile Liability	\$5M		
Workers Compensation	CA Statutory - \$1M employers Liability		
Pollution Liability	\$10M		
Builders Risk	Contract Value	Needs Approval	

Notes: OCIP will utilize a per-occurrence deductible program. If Contractor utilizes Self-Insured retention insurance, it will require approval of the self-insurance retention amount the contractor declares.

ADD:

5-7.2.1.1 Safety, Sanitation, Medical, And Drug And Alcohol Requirements.

1. The Contractor shall have ultimate responsibility for the health and safety of its employees. These specifications shall not be construed to limit the Contractors liability nor to assume that the City, its employees, agents, or designates shall assume any of the Contractors liability associated with its safety performance.
2. The Contractor shall promptly and fully carry out the safety, sanitary, and medical requirements as stated in the contract documents and as may from time to time be prescribed by the Engineer, to the end that proper work shall be done, and the safety and health of the employees and of the public are preserved and safeguarded. In case such regulations and orders are not observed by the Contractor, they may be enforced by the Engineer at the Contractor's expense. The Contractor shall summarily dismiss and shall not again engage, except with the written consent of the Engineer, any employee or subcontractor who knowingly and willingly violates the safety, sanitary, or medical requirements. Such discharge shall not be the basis of any claim for compensation or damages from the Contractor against the City, its OCIP Insurance, or any of its officers, employees, consultants or agents.
3. Appropriate first aid facilities and supplies shall be kept at the site of the Work, and the Contractor shall provide and maintain all measures required by the Construction Safety Orders issued by the Division of Industrial Safety of the State of California.
4. The Contractor shall prohibit the use or possession of intoxicating liquors or controlled substance at the jobsite or in any vehicle or equipment used in performance of the Work. This prohibition shall not apply to use or possession of prescription or non-prescription medication in accordance with prescribed directions.
5. Employ a "competent person" as defined by Cal OSHA. The "competent person" shall monitor, educate, and facilitate safety related jobsite activities. This individual shall be on the jobsite during all work hours identified in Section 6.7, Paragraph (b), or as authorized in writing by the Engineer.
6. When trenching, place your name and emergency telephone number adjacent to the Work at intervals and locations approved by the Engineer. The method of marking shall be approved by the Engineer.
7. The City shall not assume any role in determining the adequacy of the Contractors Safety and Health Plan.

ADD:

5-7.2.1.2 Contractor's Safety And Health Representatives

1. The Contractor shall provide a qualified and experienced full-time, on-site Safety Professional to serve as their Safety and Health Representative. Qualifications shall include at least 10 years of construction related safety experience as the lead site safety representative (only duty) and experience in developing and implementing accident prevention programs for construction projects. If the

Contractors Safety and Health Representative has less than 10 years construction related safety experience, or equivalent level of education and experience, the Contractors Safety and Health Representative must be approved by The City of San Diego. This individual shall be assigned only to this project and whose sole duty is monitoring and supervising the Contractor's and Subcontractors' Safety, Health, and Environmental Program, and who shall be on-site when any work is in progress. In the event the Contractor's Safety Representative gives notice of separation of employment or is transferred from the Contractor's work site, the Contractor shall ensure that the incumbent Safety Representative remains on site for a minimum of two weeks after giving notice, and that the Contractor's replacement Safety Representative receives a minimum of two weeks safety orientation on the construction site before being allowed to assume the full duties as the Contractor's Safety Representative. This requirement may be waived upon written approval by the City. The Contractor's Safety and Health Representative shall support and Implement the OCIP Safety Program, or its equivalent and shall coordinate and require the Contractor's and Subcontractor's foremen to participate in the OCIP Program and conduct and submit the required audits as described in the Safety Programs section of the OCIP Construction Safety Procedures Manual. In the event the Contractor fails to comply with the above safety professional requirements, the Engineer shall obtain the services of a Safety Professional, and charge all costs associated with the services to the Contractor.

2. The Contractor's safety and health representatives shall be responsible for, and have the authority to, direct the required safety and health programs, correct unsafe conditions and unsafe practices, and stop work in areas containing unsafe conditions or practices until such unsafe conditions or practices are correct.
3. The Contractor's safety and health representatives shall be charged with the responsibility of daily on-site safety and health coordination and inspections and shall record the results of the inspections and corrective actions, if any, on a report form provided by the City.
4. The weekly report shall be submitted to the Engineer not later than the first working day following the workweek covered by the report.
5. Contractor's Safety and Health representatives shall participate in weekly progress meetings and report out on safety conditions at the worksite.

5-7.2.1.3 Submittals.

1. Submit, within 30 days of the Notice of Award and before execution of the Contract or at a later time as directed by the Engineer a Project-specific safety and health program conforming to applicable laws and regulations that includes the following:
 - a) A Project-specific Injury and Illness Prevention Program covering work performed by or for the Contractor at the site.
 - b) The resume of qualification and experience for the Contractor's on-site safety representative responsible for safety and health.

- c) A written Hazard Communication Program covering work performed by or for the Contractor at the site.
- d) A written Emergency Action and Fire Protection Plan and a written Fire Prevention Plan covering work performed by or for the Contractor at the site. The Contractor shall have the Fire Protection Plan reviewed and approved by the jurisdictional fire protection agency. The Contractor's Fire Protection Plan shall include:
 - i. Dedication of an on-site 2,000 gallon or greater water truck fitted with a one and one half inch fire hose that shall have the ability to access all on-site construction operations.
 - ii. Fire watch on-site during construction operations. This role may be filled by the Contractor's safety representative.
 - iii. Contractor shall check in daily with CAL FIRE for an update on fire conditions and to determine if any fire restrictions have been ordered. This information shall be included on the Contractor's Daily Report to the Engineer.
 - iv. Contractor shall cease brush clearing, cutting, or chipping operations when a red flag fire day is declared by the jurisdictional fire agency.
 - v. Contractor shall have tailgate meetings daily to communicate fire conditions and fire prevention measures necessary for the daily work.
- e) A written hazard safety analysis of the project conditions. The Contractor shall perform a comprehensive site analysis before commencement of work to determine any existing hazards and shall abate these hazards or inform the Engineer and all affected employees of these hazards and how to protect themselves from them.
- f) In addition to the reports that the Contractor is required to file under the provisions of California Workers' Compensation law and other applicable laws, submit a report to the Engineer on or before the 10th day of each month giving:
 - i. The total force employed on the contract in workdays during the previous calendar month.
 - ii. The number and character of all accidents resulting in loss of time, medical treatment and first aid treatment.
 - iii. Any other information or classification of employee injuries incurred on the Project and disabilities resulting there from that may be required by the Engineer.
- g) Obtain and keep copies of the Material Safety Data Sheets of all hazardous materials brought to and stored at the site.

5-7.2.1.4 **Emergency Procedures.**

1. Designate responsible personnel to make emergency calls. Should an emergency occur, the Contractor shall:
 - a) Immediately secure the area and implement the Emergency Action Plan. Preserve the site for investigation until released by OSHA, the Engineer or OCIP Insurance Provider.
 - b) Notify the Construction Management Team or another representative previously designated by the Engineer in writing.
 - c) Provide information regarding the emergency to the appropriate authorities and authorized City representatives only. Questions from others including the press and media shall be referred to the Engineer.
2. Emergency procedures shall ensure that the Contractor's Safety Representative or the most qualified senior supervisor present takes charge and directs the handling of the emergency. The Contractor shall ensure proper handling of all Subcontractor related emergencies per the Contractor's and OCIP Emergency Procedures.
3. All Incidents, whether causing injury, environmental impacts or unauthorized property damage or not, shall be investigated by the Contractor and documented on forms provided by the OCIP and as required by the OCIP Construction Procedures Safety Manual. Instruct and require supervisors that, except for rescue or other emergency measures, the Incident site shall be secured until investigation has been completed and the scene has been released by both the Contractor and the Engineer, and as appropriate, the insurance company/OSHA.
4. Injuries which require medical attention shall be reported to the Engineer or Construction Management Team immediately after summoning medical help and securing the scene to prevent further injury. Injuries which meet the Cal/OSHA, Title 8 requirement as reportable shall also be reported to Cal/OSHA immediately. The Contractor shall investigate and generate a report which identifies the root causes and corrective actions for all accidents and incidents. This report shall be on the OCIP Incident form or an equivalent form approved by the Engineer. The Construction Management Team will also investigate all accidents and incidents to identify means to prevent further occurrences
5. For incidents that caused or had the potential to cause injury or significant losses, the Engineer or Construction Management Team may request a post Incident review. In such cases, the Contractor, Subcontractor, or other entity shall send an appropriate Manager to present the facts of the incident and provide information how future similar incidents will be prevented.
6. Immediately notify the Engineer or OCIP Safety Manager of any unabated hazardous conditions and take action to guard or control access to these conditions until correction has been accomplished. Notify the Engineer of any property or equipment found at the work site that is not under the Contractor's control. However, it shall be the Contractor's responsibility to take necessary precautions to prevent injury to persons or damage to property from such hazardous conditions until corrected by the responsible party.

5-7.2.1.5 Safety And Health.

1. Have and implement a written site-specific IIPP and Code of Safe Work Practices covering site work to be performed under the contract.
 - a) If not a part of the IIPP, the following procedures shall also be implemented:
 - i. Stress the importance of, and conduct a thorough hazard safety analysis at the start of the project.
 - ii. Participate to develop and ensure all key staff are aware of the project hazards and keep staff informed of existing and developing safety hazards.
 - iii. Encourage all suppliers to visit the project site to assess hazards before the delivery of materials.
 - b) Foremen and superintendents shall provide written Job Task Analysis for all tasks. The JTA shall include all hazards that might be encountered while performing the task and methods for assuring that each employee will be protected from the hazard.
 - c) Utilize supervisory and craft employees to conduct and document a jobsite Safety Survey each week. Each survey shall include subcontractor activities. Utilize the results of each survey to inform Contractor and Subcontractor employees and other affected jobsite individuals of hazards on the job and how to protect themselves from these identified hazards. Survey shall be submitted to the Engineer for review and comment. Identify upcoming jobs and associated hazards and notify affected employees and individuals.
 - d) Before authorization or start of construction, the Contractor shall prepare a Spill Prevention and Contingency Plan for review and approval of the appropriate jurisdictional agency and all construction crew members shall be trained in the requirements of the Spill Prevention and Contingency Plan. The Plan will include information on storage of hazardous materials, emergency response procedures, employee training requirements, fire safety, first-aid procedures, hazardous materials release containment/control procedures, and release reporting requirements. The Contractor shall integrate this SP&CP into the IIPP.
 - e) All persons shall be required to wear American National Standards Institute approved hard hats while at the Work site; no bump caps will be permitted. Each employee's hard hat shall identify the employee's name and employer. Steel toed shoes shall be worn when in active construction zone. Safety vest or equivalent shall be worn in addition to hard hat when in active construction zone.
 - f) When sufficient time is available, notify the City in advance of safety inspections by Cal/OSHA, the fire department, or other governmental agencies. When regulatory agencies arrive on-site for unannounced inspections, the Contractor shall immediately inform the Engineer and the Construction Management Team and shall escort the inspector(s) for the entire duration of their time on-site. When the Engineer is not present

during a safety inspection, immediately report to the Engineer that an inspection has taken place, and describe any violations, or citations, and the Contractor's abatement actions or salient events arising from the inspection.

- g) The Contractor shall be responsible to ensure compliance with the specific policies and procedures established in the OCIP Construction Safety Procedures Manual. To ensure Contractor and Subcontractor compliance with the IIPP's and applicable laws, contractor specifications, and the Owner Controlled Insurance Program, the Engineer or Construction Management Team Representative will use a Schedule Driven Safety Program and a Managing Safety Performance or equivalent program(s) as approved by the Engineer to gauge the Contractor's compliance and adherence to its site-specific IIPP and applicable laws and regulations. Such monitoring and audits by the Construction Management Team or the Engineer will not relieve the Contractor of any safety and health obligations.
- h) Eating and drinking shall not be permitted in areas containing hazardous materials.
- i) Equipment shall be maintained in a proper state of operation as per the manufacturer's specifications. Equipment service records will be maintained and be available for inspection to ensure compliance.
- j) Reduce harmful combustion engine emissions to the greatest extent feasible by conducting preventive maintenance on construction equipment and, whenever possible, limit equipment idling time by such means as turning engines off while vehicles are in loading and unloading queues; use clean and low sulfur fuels and use electric motors to drive conveyor belts, pumps, compressors, and other equipment.
- k) All personnel shall wear appropriate Personal Protective Equipment in accordance with the Contractor's IIPP, regulatory requirements, and the OCIP Construction Safety Procedures Manual. All personnel in active construction areas shall be required to wear approved hard hats, eye protection, safety vests with reflective stripes, steel toed work shoes, long pants, and shirts with sleeves. Gloves, hearing protection, and additional eye protection may be required as appropriate.
- l) No asbestos- or PCB-containing materials shall be used.
- m) At the beginning of the Project, the Contractor shall post at the entrance to the construction site a sign of size and wording approved by the Engineer listing the general rules, regulations, attire, and PPE requirements.

5-7.2.1.6 Safety And Health Training.

1. The Contractor's safety and health representatives shall conduct training classes before commencement of the Work and on a monthly basis, or more often if needed, on safety and health, emergency procedures, first aid, fire prevention, and other areas applicable to the Work. The Contractor may seek input from the Engineer.

5-7.2.1.7 First Aid.

1. The Contractor is responsible to provide initial emergency care and to notify Emergency Responders by calling 911 when required. The contractor is also responsible to arrange for transportation of sick or injured persons off the job site when other than emergency transport is appropriate.

5-7.2.1 General. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

5-7.2.1 Regulatory Requirements.

1. You shall have copies of the following at the Work site. The required information shall be made available to the Construction Management Team and the Engineer for review upon request.
 - a) A complete copy of the California Code of Regulations, Title 8.
 - b) Material Safety Data Sheets for all hazardous materials being used or stored at the site.
 - c) Permits required for the Work
 - d) All records and information required by the Construction Safety Procedures Manual

5-13 ELECTRONIC COMMUNICATION. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. PM Web shall be used on this Contract. See Technicals Section 01 33 22 Web Based Construction Document Management.

5-15.1 General. To the "WHITEBOOK", item 10, DELETE in its entirety and SUBSTITUTE with the following:

10. If your construction activities have encountered flammable liquids or other hazardous substances, you shall ensure that construction staff have the required Hazardous Waste Operations and Emergency Response (HAZWOPER) certification. Construction staff shall include: City Engineers, City Laboratory Technicians, and City staff that perform onsite inspections.
 - a) If your Work encounters flammable liquids or other hazardous substances, you shall be responsible for scheduling training for all construction staff to attend and for submitting verification to the Engineer that construction staff have the required HAZWOPER certification prior to continuing that Work in that area. You shall maintain the HAZWOPER certifications annually until the construction activities triggering the requirement is complete, as approved by the Resident Engineer.

SECTION 6 – PROSECUTION AND PROGRESS OF THE WORK

6-1.1 Construction Schedule. To the “WHITEBOOK”, item 1, subsection “e” and “s”, DELETE in their entirety and SUBSTITUTE with the following:

- e) Monthly progress payments are contingent upon the submittal of an updated Schedule to the Engineer. The Engineer may refuse to process the whole or part of any monthly payment if you refuse or fail to provide an acceptable schedule.
- s) Submit an updated cash flow forecast with every pay request (for each Project ID or WBS number provided in the Contract) showing periodic and cumulative construction billing amounts for the duration of the Contract Time. If there has been any Extra Work since the last update, include only the approved amounts.
 - i. Refer to the Sample City Invoice materials in **Appendix D – Sample City Invoice with Cash Flow Forecast** and use the format shown.
 - ii. See also the “Cash Flow Forecast Example” at the location below:

<https://www.sandiego.gov/ecp/edocref/>

To the “WHITEBOOK”, ADD the following:

- 3. The **120 Calendar Day** Plant Establishment Period is included in the stipulated Contract Time and shall begin with the acceptance of installation of the vegetation plan in accordance with Section 801-6, “MAINTENANCE AND PLANT ESTABLISHMENT”.

6-1.5.2 Excusable Non-Compensable Delays. To the “WHITEBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

6-1.5.2 Excusable Non-Compensable and Concurrent Delays.

- 1. The City shall only issue an extension of time for Excusable Delays that meet the requirements of 6-4.2, “Extensions of Time” for the following circumstances:
 - a) Delays resulting from Force Majeure.
 - b) Delays caused by weather.
 - c) Delays caused by changes to County, State, or Federal law.
- 2. When a non-excusable delay is concurrent with an Excusable Delay, you shall not be entitled to an extension of Contract Time for the period the non-excusable delay is concurrent with the Excusable Delay.
- 3. When an Excusable Non-Compensable Delay is concurrent with an Excusable Compensable Delay, you shall be entitled to an extension of Contract Time, but

shall not be entitled to compensation for the period the Excusable Non-Compensable Delay is concurrent with the Excusable Compensable Delay.

6-2.1 Moratoriums. To the "WHITEBOOK", ADD the following:

3. Do not Work in the areas where there is currently a moratorium issued by the City. The areas subject to moratorium are listed as provided here:
 - a) Activities that disrupt plant operations are prohibited during the summer, unless otherwise approved in writing by the Owner.

6-4.2 Extensions of Time. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. The Contract Time shall not be modified except by Change Order.
2. You shall notify the City in writing within **1 Working Day** after the occurrence and discovery of an event that impacts the Project Schedule.
 - a) If you believe this event requires a Change Order, you shall submit a written Change Order request with a report to the City that explains the request for Change Order within **5 Working Days**. The Change Order request must include supporting data, a general description of the discovery, the basis for extension, and the estimated length of extension. The City may grant an extension of time, in writing, for the Change Order request if you require more time to gather and analyze data.
3. The Engineer shall not grant an extension of Contract Time in accordance with 6-1.5, "Excusable Delays" unless you demonstrate, through an analysis of the critical path, the following:
 - a) The event causing the delay impacted the activities along the Project's critical path.
 - b) The increases in the time to perform all or part of the Project beyond the Contract Time arose from unforeseeable causes beyond your control and without your fault or negligence and that all project float has been used.
4. Any modifications to the Contract Time will be incorporated into the weekly document that the Engineer issues that stipulates the Contract Time. If you do not agree with this document, submit to the Engineer for review a written protest supporting your objections to the document within **30 Calendar Days** after receipt of the statement. Your failure to file a timely protest shall constitute your acceptance of the Engineer's weekly document.
 - a) Your protest will be considered a claim for time extension and shall be subject to 2-10.1, "Claims".

6-4.4 Written Notice and Report. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Your failure to notify the Resident Engineer within **1 Working Day** OR provide a Change Order request within **5 Working Days** after the event, in accordance with

6-4.2, "Extensions of Time", will be considered grounds for refusal by the City to consider such request if your failure to notify prejudices the City in responding to the event.

ADD:

6-6.1.1 Environmental Document.

1. The City of San Diego has prepared an **Environmental Impact Report/ Environmental Impact Statement (EIR/EIS)** for the Pure Water San Diego Program, North City Project, **SCH#2016081016/PTS #499621**, for Pure Water Phase 1, which includes the North City Water Reclamation Plant Expansion and North City Pure Water Facility Influent Pump Station and Conveyance and is incorporated into this Contract as referenced in the Contract Appendix. You shall comply with all requirements of the **Environmental Impact Report (EIR)** Mitigation Measures as set forth in **Appendix A**.
2. In addition, Pure Water Phase 1 has obtained environmental documents and permits listed below that the Contractor shall comply with:

ENVIRONMENTAL DOCUMENTS
Site Development Permit
Record of Decision
Federal Aviation Administration Determination of No Hazard
Air Pollution Control District Authority to Construct
County Department of Environmental Health Hazardous Materials Questionnaire

These documents can be obtained at the following link:

https://drive.google.com/drive/folders/1yuDScR_xf7kJRZKoJWmR7K9awALpQ1hY?usp=sharing

3. Compliance with the City's environmental document shall be included in the Contract Price.

6-6.2.1 Archaeological and Native American Monitoring Program. To the "WHITEBOOK", ADD the following:

4. City shall retain a qualified archaeologist and Native American Monitor for this Contract. You shall coordinate your activities and Schedule with the activities and schedules of the archaeologist and Native American monitor. Notify the Engineer before noon of the Working Day before monitoring is required. See 3-5, "INSPECTION" for details.

6-6.2.2 Paleontological Monitoring Program. To the "WHITEBOOK", ADD the following:

3. City shall retain a qualified paleontologist for this Contract. You shall coordinate your activities and Schedule with the activities and schedules of the paleontologist monitor. Notify the Engineer before noon of the Working Day before monitoring is required. See 3-5, "INSPECTION" for details.

6-9 LIQUIDATED DAMAGES. To the "WHITEBOOK", ADD the following:

3. Contractor and Owner recognize that time is of the essence of this Agreement and that Owner will suffer financial loss if the Work is not completed within the times specified in Contract Times in the Scope of Work. The parties also recognize the delays, expense, and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty), the Contractor shall pay the following amounts for each Milestone for each day that expires after the time specified herein until the Work is substantially complete. If the Work of multiple Milestones are simultaneously not completed by the times specified, the Contractor shall pay the highest amount among the Milestones not completed.

Milestone No.	Milestone Description	Required Completion Date	Amount of Liquidated Damages
Milestone 1	Morena Tunnel Shaft utility relocation and connection preparation	203 Working Days after Notice to Proceed	\$8,100/Calendar Day
Milestone 2	Completion and Early Acceptance for Beneficial Use of the Headworks Facility	296 Working Days after Notice to Proceed	\$1,000/Calendar Day
Milestone 3	Completion and Early Acceptance for Beneficial Use of the Secondary Clarifiers and associated piping and facilities	435 Working Days after Notice to Proceed	\$1,000/Calendar Day
Milestone 4	Completion and Early Acceptance for Beneficial Use of the Primary Treatment Facility	467 Working Days after Notice to Proceed	\$1,000/Calendar Day
Milestone 5	Installation of the conveyance piping to Eastgate Mall	468 Working Days after Notice to Proceed	\$5,000/Calendar Day
Milestone 6	Completion and Early Acceptance for Beneficial Use of the NCPWF Influent Pump Station and Conveyance	598 Working Days after Notice to Proceed	\$5,000/Calendar Day

Milestone 7	Intermediate Substantial Completion	709 Working Days after Notice to Proceed	\$14,000/Calendar Day
Milestone 8	Substantial Completion	844 Working Days after Notice to Proceed	\$15,100/Calendar Day
Milestone 9	Final Acceptance and Completion	906 Working Days after Notice to Proceed	\$8,100/Calendar Day

SECTION 7 – MEASUREMENT AND PAYMENT

7-3.1 General. To the “GREENBOOK” and “WHITEBOOK”, paragraph (8), DELETE in its entirety and SUBSTITUTE with the following:

If, within the time fixed by law, a properly executed notice to stop payment is filed with the City, due to your failure to pay for labor or materials used in the Work, all money due for such labor or materials will be withheld from payment in accordance with applicable laws.

To the “WHITEBOOK”, ADD the following:

1. Unless specified otherwise, the Contract Price includes use, consumer, and other taxes mandated by applicable legal requirements.
2. As provided in §7105 of the California Public Contract Code, if the Contract is not financed by revenue bonds, you are not responsible for the cost of repairing or restoring damage to the Project when damage was proximately caused by an act of God, in excess of 5% of the Contract Price, if the following occur:
 - a) The Project damaged was built in accordance with the Contract requirements.
 - b) There are no insurance requirements in the Contract for the damages.

7-3.2 Partial and Final Payment. To the “GREENBOOK”, paragraph (3), DELETE in its entirety and SUBSTITUTE with the following:

Upon commencement of the Work, an escrow account shall be established in a financial institution chosen by you and approved by the City. Documentation for an escrow payment shall have an escrow agreement signed by you, the City, and the escrow agent. From each progress payment, no less than 5% will be deducted and deposited by the City into the escrow account. Upon completion of the Contract, the City will notify the Escrow agent in writing to release the funds to you. Only the designated representative of the City shall sign the request for the release of Escrow funds.

To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. The Final Payment, which is the release of Retention, shall be paid to you after you have successfully submitted the following required documents:
 - a) An affidavit that payrolls and bills for materials, equipment, and other indebtedness connected with the Work for which the City or the City's property might be responsible for or encumbered by.
 - b) A certificate evidencing that insurances required by the Contract Documents shall remain in force after Final Payment is currently in effect and shall not be canceled or allowed to expire until at least a 30 Calendar Days prior written notice has been given to the Engineer.
 - c) Consent of Surety to Final Payment.
 - d) If required by the Engineer, other data establishing payment or satisfaction of obligations such as receipts, releases and waivers of liens, claims, and security interests or encumbrances arising out of the Contract Documents. If a Subcontractor refuses to furnish a release or waiver required by the City, you may furnish a bond satisfactory to the Engineer to indemnify the City against such lien.
 - e) If required in the Contract Documents, the successful completion and submittal of the required reports such as construction demolition, waste recycling, and hydrostatic discharge reports.
 - f) Required EOCP Final Summary Report in accordance with Section 0-12, "Contract Records and Reports", record drawings, operations manuals, test reports, warranty documentation, and UL labels shall be submitted before requesting the release of retention.
 - g) Acceptance of the completed Project by the asset owning Department.

To the "WHITEBOOK", ADD the following:

2. Submit an invoice for payment after you successfully complete the required documents and the City will pay the invoice within 30 Calendar Days. The City will pay 6% annually for late retention payments.

7-3.2.1 Application for Progress Payment. To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

3. The City shall not pay progress or partial payments until you submit to the Engineer an acceptable updated Schedule. It is solely your responsibility to prepare and submit the Schedule updates.

7-3.2.2 Amount of Progress Payments. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. The City will pay 6% annually for late progress payments.
2. Progress payments will be considered "late" if the following occur:
 - a) The City does not pay the contractor within 30 Calendar Days from receipt of an undisputed and properly submitted invoice. A properly

submitted payment invoice means that the City has approved for payment the entire invoice amount or if the Resident Engineer has not disputed any portion of the application within 7 Calendar Days of the date of submission.

- b) The application for payment does not require signing of a Contract Change Order.
3. The Engineer may withhold payment for any of the following reasons:
- a) Defective or incomplete Work.
 - b) Not providing an updated and accurate Cost Loaded Construction Schedule in accordance with 6-1.1, "Construction Schedule".
 - c) Stop notices, wage orders, or other withholdings required by Applicable Law. Your failure to comply with 5-3.3, "Payroll Records" and the Contractor Registration and Electronic Reporting System requirements of the Contract Documents.
4. The Engineer may back charge the contract for any of the following reasons:
- a) Defective or incorrect Work not remedied.
 - b) Damage to City property or a third party's property that was caused by you.
 - c) Liquidated Damages.

7-3.2.3 Waiver of Claims at Final Payment. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

- 1. Your acceptance of Final Payment constitutes a waiver of affirmative Claims by you, except those previously made in writing and identified as unsettled at the time of Final Payment.

7-3.2.4 Withholding of Payment and Back Charge. To the "WHITEBOOK", DELETE in its entirety.

7-3.5.1 General. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

- 1. Unit Bid prices shall not be subject to adjustment regardless of quantity used, or if none is used, for the following Bid items:
 - a) imported backfill
 - b) shoring
 - c) water services
 - d) house connection sewers
 - e) water pollution control items
- 2. Upon discovery and prior to the Work, you shall notify the Resident Engineer if there is a change in Bid item quantity that increases the total Contract Price by 5% or \$100,000 or more, whichever is less.

7-3.9

Field Orders. To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. If the cumulative total of Field Order items of Work does not exceed the "Field Orders" Bid Item, the City shall pay those Field Orders as shown below:

TABLE 7-3.9

FIELD ORDER LIMITS

Contract Price	Maximum Field Order Work Amount
Less than \$100,001	\$2,500
\$100,001 to \$1,000,000	\$5,000
\$1,000,001 to \$5,000,000	\$10,000
\$5,000,001 to \$15,000,000	\$20,000
\$15,000,001 to \$30,000,000	\$40,000
Greater than \$30,000,000	\$50,000

2. Field Order items of Work for contracts greater than \$15,000,000 will require additional approvals from the City prior to its approval by the Resident Engineer.
3. The City will issue a Field Order only after the City's acceptance of the cost of the field order amount.
4. Field Orders shall not be used to add scope or to include extensions of time related to changes in work.
5. If in the event there is a change related to the critical path on the project which necessitates an extension of time and the change amount is within the Field Order limits shown on Table 7-3.9, then a Field Order can be issued to compensate you for the approved costs. Any extensions of time associated with the change shall be included in a subsequent Change Order and no additional compensation shall be granted as part of the change order for the extension of time.
6. The unused portions of Field Orders Bid item shall revert to the City upon Acceptance.

7-3.11

Compensation Adjustments for Price Index Fluctuations. To the "WHITEBOOK", ADD the following:

5. This Contract is not subject to the provisions of The "WHITEBOOK" for Compensation Adjustments for Price Index Fluctuations for paving asphalt.

7-4.3

Markup. To the "WHITEBOOK", item 4, DELETE in its entirety and SUBSTITUTE with the following:

4. When a Subcontractor is performing Extra Work, the allowance for overhead and profit shall be applied to the labor, materials, and equipment costs of the Subcontractor as follows:
 - a) Regardless of the number of a Subcontractor's tasks for Extra Work, you may only apply 10% for the first \$50,000 of the Subcontractor's portion of accumulated total cost then 5% for any remaining costs. You shall not apply 10% to any costs after the first \$50,000 of accumulated total costs from performing Extra Work.
 - b) If the accumulated costs of single or subsequent tasks exceed the \$50,000 threshold, you shall instead only apply 5% to any amounts in excess of the \$50,000.
 - c) Regardless of the number of hierarchical tiers of Subcontractors, you may only markup a Subcontractor's Work once.

SECTION 209 – PRESSURE PIPE

209-1.1.1 General. To the "WHITEBOOK", ADD the following:

2. PVC products, specifically type C900 and C905, as manufactured or distributed by J-M Manufacturing Company or JM Eagle shall not be used on the Contract for pressurized pipe.
3. Refer to AWWA C900-16 for all references to AWWA C905.

SECTION 303 – CONCRETE AND MASONRY CONSTRUCTION

303-5.1.1 General. To the "WHITEBOOK", ADD the following:

7. For the purposes of this section, the terms "walk" and "access ramp" shall be synonymous with "sidewalk" and "curb ramp and pedestrian ramp", respectively.

303-5.10.2 Payment. To the "WHITEBOOK", ADD the following:

4. The payment for completely removing and replacing the existing concrete spandrel of a cross gutter associated with curb ramp installations, in accordance with SDG-131 - General Curb Ramp Notes, and as identified on the Plans, shall be included in the payment for the curb ramp. No additional costs shall be incurred when separate Bid items for cross gutters has been provided.
5. The payment for completely removing and replacing the existing concrete alley apron associated with curb ramp installations, in accordance with SDG-131 - General Curb Ramp Notes, and as identified on the Plans, shall be included in the payment for the Curb Ramp installation. No additional costs shall be incurred when separate Bid items for alley aprons has been provided.

SECTION 306 – OPEN TRENCH CONDUIT CONSTRUCTION

ADD:

306-8.5.4 High Deflection Coupling.

1. High deflection couplings shall be constructed in accordance with the Plans and Reference Specifications. Working Drawings prepared by a Civil or Structural Engineer registered in the State of California shall be submitted in accordance with 3-8.2, "Working Drawings" for any proposed additional high deflection couplings not indicated on the Plans and Reference Specifications.

306-8.8.3 Thrust Blocks and Anchor Blocks. To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Thrust blocks shall be installed at all bends, tees, dead-ends and reducers. The use of restrained joints requires approval from the Engineer. The thrust blocks shall be constructed as follows:
 - a) Thrust blocks shall be constructed of concrete conforming to 201-1, "PORTLAND CEMENT CONCRETE".
 - b) Unless otherwise shown on the Plans, concrete thrust blocks shall be constructed in accordance with SECTION 303 - CONCRETE AND MASONRY CONSTRUCTION and the Standard Drawings.
 - c) Concrete blocks shall be constructed between undisturbed ground and fittings to be anchored.
 - d) Unless otherwise shown on the Plans, the quantity of concrete and the bearing area of the pipe against undisturbed soil shall be as shown on the Standard Drawings.
 - e) Unless otherwise shown on the Plans, concrete shall be placed so pipe joints and fittings remain accessible to repairs.

306-8.9.2.3 Allowable Leakage. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. For prefabricated pressure pipe testing requirements, refer to prefabricated gravity pipe pressure testing requirements in 306-7.8.2, "Pressure Testing and Leakage Inspection". See pipe testing pressure requirements in the Technicals. You shall abide by the more stringent requirements.

SECTION 402 – UTILITIES

402-7.2 Pipe Separations. To the "WHITEBOOK", item 1, subsection "a", DELETE in its entirety and SUBSTITUTE with the following:

- a) You shall notify the Engineer immediately if:
 - i. 1 foot (0.3 m) vertical separation as measured from the outside of pipe wall to the outside of pipe wall between sewer and water mains cannot be maintained.

- ii. 10 feet (3.0 m) horizontal separation as measured from the outside of pipe wall to the outside of pipe wall between sewer and water mains cannot be maintained.
- iii. 6 inches (152.4 mm) vertical separation as measured from the outside of pipe wall to the outside of pipe wall between utilities other than sewer and water mains cannot be maintained.
- iv. 3 feet (0.9 m) or more of cover over the top of the water main cannot be maintained.
- v. 5 feet (1.5 m) or more of cover over the top of the recycled water main cannot be maintained.

**SECTION 601 - TEMPORARY TRAFFIC CONTROL FOR CONSTRUCTION
AND MAINTENANCE WORK ZONES**

601-2.1.4 Traffic Control for Resurfacing and Slurry Sealing. To the "WHITEBOOK", item 3, subsection "d", DELETE in its entirety and SUBSTITUTE with the following:

- d) Place "NO PARKING - TOW-AWAY ZONE" signs 72 hours in advance of the scheduled slurry sealing. Reschedule street block segments which are not completed by the last posted Working Day. If a Work delay of 48 hours or more occurs from the originally scheduled Work date, remove the "NO PARKING - TOW-AWAY ZONE" signs for a minimum of 24 hours, then reset and re-post for the appropriate Work date.

601-3.5.1 General. To the "WHITEBOOK", item 3, DELETE in its entirety and SUBSTITUTE with the following:

- 3. Temporary "No Parking" and "No Stopping" signs shall be installed 72 hours before enforcement. Temporary "No Parking" and "No Stopping" signs shall be installed and removed as specified in the Special Provisions. Signs shall indicate specific days, dates, and times of restrictions. If violations occur, call Police Dispatch 619-531-2000 to enforce the Tow-Away notice.

601-3.6 Channelizing Devices. To the "WHITEBOOK", item 4, Barricades, ADD the following:

- h) You shall place "OPEN TRENCH" signs (C27(CA)) on Type 3 Barricade within the construction Work zone, ahead of any Work areas with open trenches that are greater than 3 inches in depth, in accordance with California MUTCD SECTION 6F.103 (CA). The barricades shall be placed in a continuous manner and shall prevent pedestrian, vehicular, and biker access to the open trench area.

**SECTION 802 – NATIVE HABITAT PROTECTION, INSTALLATION, MAINTENANCE, AND
MONITORING**

802-2.1 Project Biologist. To the "WHITEBOOK", ADD the following:

- 5. City shall retain a qualified Project Biologist to perform biological monitoring Work for this Contract. You shall coordinate your activities and Schedule with the activities and schedules of the Project Biologist.

SECTION 1001 – CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs)

1001-1 **GENERAL.** To the “WHITEBOOK”, ADD the following:

7. Based on a preliminary assessment by the City, this Contract is subject to SWPPP.

1001-2.10 **BMP Inspection, Maintenance, and Repair.** To the “WHITEBOOK”, ADD the following:

5. Maintenance activities shall be documented by the QSP or QSD in the Construction BMP Maintenance Log for projects subject to SWPPP requirements. See **Appendix H - SWPPP Construction BMP Maintenance Log.**

1001-3.7 **Payment.** To the “WHITEBOOK”, item 3, subsection “g”, DELETE in its entirety and SUBSTITUTE with the following:

- g) BMP Inspection, Maintenance, Repair, and Construction BMP Maintenance Log.
-

ATTACHMENT I
PROJECT LABOR AGREEMENT (PLA)

CITY OF SAN DIEGO
PROJECT LABOR AGREEMENT
FOR CONSTRUCTION OF PURE WATER PROGRAM
PHASE I PROJECTS

Effective Date: June 16, 2020

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CITY OF SAN DIEGO

PROJECT LABOR AGREEMENT

FOR CONSTRUCTION OF PURE WATER PROGRAM

PHASE I COVERED PROJECTS

This Project Labor Agreement (hereinafter, “PLA” or “Agreement”) is entered into this 16th day of June, 2020 by and between the San Diego Building and Construction Trades Council (hereinafter “Council”), and the signatory Craft Unions (hereinafter, together with the Council, collectively, the “Union” or “Unions”), and the Contractors performing work on Covered Projects that are subject to this Agreement. The City of San Diego is not a signatory Party to this Agreement, but shall be considered a “negotiating party” and will be responsible for implementing and administering the Agreement as described herein together with the Council, Unions and Contractors.

ARTICLE 1

RECITALS

WHEREAS, the City desires the completion of the Pure Water Program Phase I Projects in a professional, safe, efficient, and economical manner, without undue delay or work stoppage; and

WHEREAS, the successful completion of the City’s Pure Water Program Phase I Projects are of the utmost importance to the rate payers and the City; and

WHEREAS, the Parties have pledged their full commitment to work towards a mutually satisfactory completion of the Pure Water Program Phase I Projects; and

WHEREAS, large numbers of workers of various skills will be required in the performance of the construction work on the Pure Water Program Phase I Projects, including workers affiliated with and/or represented by the Unions; and

WHEREAS, it is recognized that on construction projects with multiple contractors and bargaining units on the job site at the same time over an extended period of time, the potential for work disruption is substantial without an overriding commitment to maintain continuity of work; and

WHEREAS, the Parties agree that by establishing and stabilizing wages, hours, and working conditions for the workers employed on the Pure Water Program Phase I Projects, a

satisfactory, continuous, and harmonious relationship will exist among labor and management that will lead to the efficient and economical completion of Covered Projects; and

WHEREAS, in recognition of the special needs of the Project Work and to maintain a spirit of harmony, labor-management relations, peace, and stability during the term of this PLA, the Parties agree to establish effective and binding methods for the settlement of all misunderstandings, disputes and grievances without any strikes, slowdowns, work interruptions, or disruption of Project Work, and the Contractors agree not to engage in any lockout.

WHEREAS, the City places high priority upon the development of comprehensive programs for the recruitment, training, and employment of City Residents and Targeted Workers, and also recognizes the ability of local Apprenticeship Programs to provide meaningful and sustainable careers in the building and construction industry. The Parties will encourage City Residents and Targeted Workers to participate in Project Work through programs and procedures jointly developed to prepare and encourage such individuals for entrance into Apprenticeship Programs and formal employment on the Project Work through the referral programs sponsored and/or supported by the Parties to this PLA.; and

WHEREAS, the Project Work will provide opportunities for Disadvantaged Business Enterprises to participate as Contractors, subcontractors, or suppliers, and the Parties therefore agree that they will cooperate with all efforts of the City, the Project Labor Coordinator, and other organizations retained by the City for this purpose, to encourage and assist the participation of Disadvantaged Business Enterprises in the Project Work. Specifically, all Parties understand that the City has established and quantified goals which place a strong emphasis on the utilization of Disadvantaged Business Enterprises on the Project. Each Party agrees that it shall participate in outreach programs and provide education, and assistance to businesses not familiar with working on projects of this scope. Further, the Parties shall ensure that the provisions of this PLA do not inadvertently establish impediments to participation of such Disadvantaged Business Enterprises, City Residents and Targeted Workers.

WHEREAS, it is further understood that the City is a real party in interest to this Agreement and shall actively administer and enforce the obligations of this PLA to ensure that the benefits of this Agreement flow to all signatory Parties, craft persons working under it, and the rate payers and residents of the City. The City will send a letter to the Council to signify that the City will be performing its obligation under this Agreement and will designate a "Project Labor Coordinator," either from its own staff and/or an independent contractor acting on behalf of the City, to monitor and enforce compliance with this PLA. In addition, this letter will state that the City will include and incorporate this Agreement into each Covered Project's construction documents. The Project Labor Coordinator, as the authorized representative of the City, will assist with the development and implementation of the programs referenced in this PLA, all of which are critical to fulfilling the intent and purposes of the Parties and this PLA.

NOW, THEREFORE, IT IS AGREED BETWEEN AND AMONG THE PARTIES AS FOLLOWS:

ARTICLE 2

DEFINITIONS

Capitalized terms utilized in this PLA which are not otherwise defined herein shall have the meanings ascribed to said terms below.

“Agreement” means this Project Labor Agreement (PLA).

“Applicable Prevailing Determination” means the prevailing wage determinations applicable to Project Work pursuant to the State of California Labor Code.

“Apprentice” means an apprentice properly registered in an Apprenticeship Program for the entire time they are employed on a Covered Project.

“Apprenticeship Program” as used in this PLA shall be defined as an apprenticeship program certified by the State of California.

“City” means the City of San Diego and its departments delivering the Covered Projects.

“City Resident” means a City of San Diego permanent resident at the time of initial employment on a Covered Project or a Veteran residing anywhere.

“Contractor” means any contractor to whom the City awards a Construction Contract for Project Work and all subcontractors utilized by such Contractors for Project Work. The term “Contractor” includes any individual, firm, partnership, corporation, owner operator, or combination thereof, including joint ventures, that has entered into a contract with the City for Project Work, or any subcontractor who has signed a contract with a Contractor or another subcontractor for Project Work.

“Core Employees” are defined in Article 4, Section 4.6 (e).

“Council” means the San Diego County Building & Construction Trades Council.

“Covered Contract” means a contract awarded to a Contractor by the City for a Pure Water Program Phase I Project identified in Appendix A.

“Covered Project” or “Project Work” means a Pure Water Program Phase I Project that is identified in Appendix A and is limited to the construction site of work.

“Disadvantaged Business Enterprise” means a firm that has been certified via the Department of Transportation, but also includes: Minority Business Enterprises or Woman Business Enterprises certified by the Department of Transportation or the California Public Utilities Commission; and Small Local Business Enterprises or Emerging Local Business Enterprises certified by the City.

“Prime Contractor” means the prime Contractor awarded a Covered Contract in privity directly with the City.

“Project Labor Coordinator” means the designee of the City, either from its own staff and/or an independent entity acting on behalf of the City, to monitor compliance with this Agreement and assist with developing, implementing and administering the requirements, policies and programs referenced herein.

“Schedule A’s” means the local master labor agreements of the Unions.

“Targeted Worker” means any individual qualifying for one (1) or more of the following Targeted Worker categories:

- (a) Is a Veteran, or is the eligible spouse of a “Veteran of the United States armed forces, under Section 2(a) of the Jobs for Veterans Act (38 United States Code [U.S.C.] 4215[a]);
- (b) At initial time of employment on a Covered Project, is an Apprentice with less than ten (10) percent of the work hours required for graduation to become a Journeyman;
- (c) Has no high school diploma or general education diploma (GED);
- (d) Is homeless or has been homeless within the last year;
- (e) Is a former foster youth;
- (f) Is a custodial single parent;
- (g) Is experiencing protracted unemployment (receiving unemployment benefits for at least three [3] months);
- (h) Is a current recipient of government cash or food assistance benefits;
- (i) Has a documented income at or below 100 percent of the Federal Poverty Level;

(j) Is formerly incarcerated with a history of involvement with the criminal justice system.

“Union” or “Unions” means any labor organization signatory to this Agreement acting in their own behalf and on behalf of their respective affiliates and member organizations whose names are subscribed hereto and who have, through their officers, executed this Agreement.

“Veteran” means a veteran or the eligible spouse of a veteran of the United States armed forces, under Section 2(a) of the Jobs for Veterans Act (38 U.S.C. 4215[a]);

ARTICLE 3

SCOPE OF THE AGREEMENT

Section 3.1 This PLA is limited to covering all onsite construction work within the scope of each Covered Contract.

Section 3.2 Exclusions. Items specifically excluded from the scope of this PLA include the following:

(a) Work of non-manual employees including but not limited to, superintendents, supervisors, staff engineers, quality control and quality assurance personnel, timekeepers, mail carriers, clerks, office workers, messengers, guards, safety personnel, emergency medical and first aid technicians, and other professional, engineering, administrative, supervisory, and management employees; and

(b) All offsite manufacturing, fabrication, deliveries, maintenance, and handling of materials, equipment, or machinery, and the offsite hauling of materials of any kind to or from the Covered Project site. However, any lay down or storage areas for equipment or material and manufacturing (i.e. prefabrication) sites dedicated solely for the project, and the movement of materials or goods between locations on a Covered Project site are within the scope of the PLA. On-site fabrication work includes work done for the Project in temporary yards or areas near the Project. On-site construction shall also include the site of any batch plant constructed solely to supply materials to the Project; and

(c) All employees of the City, Project Labor Coordinator, design teams (including, but not limited to, architects, engineers, and master planners), or any other consultants for the City (including, but not limited to, project managers and

construction managers and their employees where not engaged in Project Work) and their subconsultants, and other employees of professional service organizations, not performing manual labor within the scope of this PLA. Notwithstanding the foregoing, however, this exclusion shall not apply to the classifications for Surveyors and/or Building/Construction Inspectors and/or Field Soils and Material Testers (Inspectors) unless they are City employees. This inclusion applies to the scope of work defined in the State of California Wage Determination for Surveyors and/or Building/Construction Inspectors and/or Field Soils and Material Testers (Inspectors). This shall also specifically include such work where it is referred to by utilization of such terms as “quality control” or “quality assurance.” Every Inspector performing under these classifications on Covered Projects pursuant to a professional services agreement, a contract entered into directly with the City, or a contract with a Contractor shall be bound to all applicable requirements of this Agreement; and

(d) Any work performed on or near or leading to or into a site of work covered by this PLA and undertaken by state, county, city, or other governmental bodies, or their contractors (other than work within the scope of this PLA undertaken by contractors to the City); or by private utilities, or their contractors; and

(e) Work performed by employees of a manufacturer or vendor on the manufacturer’s or vendor’s equipment, if required by the warranty agreement in order to maintain the warranty or guarantee, and provided that the warranty agreement is the manufacturer’s or vendor’s usual and customary warranty agreement for such equipment and is consistent with industry practice; and

(f) Specialized or technical work requiring specialized training, unique skills, or a level of specific technical experience which employees represented by the Union do not possess. At least ten (10) working days notice shall be given to the Council before any work is performed pursuant to this exemption.; and

(g) Laboratory work for testing; and

(h) Non-construction support services contracted by the City, Project Labor Coordinator, or Contractor in connection with this Project.

Section 3.3 Awarding of Contracts.

(a) The City has the absolute right to bid or award Covered Contracts regardless of delivery method to any Contractor notwithstanding the existence or non-existence of any agreements between such Contractor and any Union Parties,

provided only that such Contractor is willing, ready, and able to execute and comply with this PLA should such Contractor be awarded work covered by this PLA.

(b) It is agreed that all Contractors who have been awarded a contract for Project Work shall be required to accept and be bound by the terms and conditions of this PLA. Contractors shall evidence their acceptance of this Agreement by executing a Letter of Assent as set forth in Attachment A hereto. The Prime Contractor must sign and submit the Letter of Assent as a condition of award prior to the execution of a Covered Contract. No Contractor shall commence Project Work without first providing a copy of the signed Letter of Assent to the Project Labor Coordinator.

(c) The City and Prime Contractors agree that to the extent permitted by law and consistent with the economy and efficiency of construction and operation, it will use its best efforts to purchase materials, equipment, and supplies that will not create labor strife. Under all circumstances, however, the City and Prime Contractors shall retain the absolute right to select the lowest responsive and responsible bidder for the award of contracts on all Covered Projects.

Section 3.4 Coverage Exception. The Parties agree and understand that this PLA shall not apply to any work that would otherwise be covered Project Work if a governmental agency or granting authority partially or fully funding such work determines that it will not fund the Project Work if it is covered by this PLA. The City agrees that it will make every effort to establish the inclusion of this PLA with any governmental agency or granting authority funding a Covered Project.

Section 3.5 Schedule A's.

(a) The provisions of this PLA, including the Schedule A's (which are the local Master Labor Agreements of the signatory Unions having jurisdiction over the work on the Project, as such may be changed from time to time consistent with Section 21.3, and which are incorporated herein by reference), shall apply to the work covered by this PLA, notwithstanding the provisions of any other local, area and/or national agreement that may conflict with or differ from the terms of this PLA. Where a subject covered by the provisions of this PLA is also covered by a Schedule A, the provisions of this PLA shall prevail. Where a subject is covered by a provision of a Schedule A and not covered by this PLA, the provisions of the Schedule A shall prevail. Any dispute as to the applicable source between this PLA and any Schedule A shall be resolved under the procedures established in Article 10.

(b) It is understood that this PLA, together with the referenced Schedule A's, constitutes a self-contained, stand-alone agreement and, by virtue of having become bound to this PLA, the Contractor will not be obligated to sign any other local, area, or national collective bargaining agreement as a condition of performing work within the scope of this PLA (provided, however, that the Contractor may be required to sign a uniformly applied non-discriminatory Participation or Subscription Agreement at the request of the trustees or administrator of a trust fund established pursuant to Section 302 of the Labor Management Relations Act, and to which such Contractor may be bound to make contributions under this PLA, provided that such Participation or Subscription Agreement does not purport to bind the Contractor beyond the terms and conditions of this PLA and/or expand its obligation to make contributions pursuant thereto). It shall be the responsibility of the Prime Contractor to have each of its Contractors of any tier sign the documents with the appropriate Union prior to the Contractor beginning Project Work.

Section 3.6 The Parties agree that this PLA will be made available to, and will fully apply to, any successful bidder for Project Work, without regard to whether that successful bidder performs work at other sites on either a Union or non-Union basis. This PLA shall not apply to any work of any Contractor other than that on Project Work specifically covered by this PLA.

Section 3.7 Binding Signatories Only. This PLA and Letter of Assent shall only be binding on the signatory Parties hereto, and shall not apply to the parents, affiliates, subsidiaries, or other ventures of any such Party.

Section 3.8 Other City Work. Nothing contained herein shall be interpreted to prohibit, restrict, or interfere with the performance of any other operation, work, or function not covered by this PLA, which may be performed by City employees or contracted for by the City for its own account, on its property, or in and around a project site.

Section 3.9 Separate Liability. It is understood that the liability of the Contractor(s) and the liability of the separate Unions under this PLA shall be several and not joint. The Unions agree that this PLA does not have the effect of creating any joint employment status between or among the City or Project Labor Coordinator and/or any Contractor.

Section 3.10 Completed Project Work. As areas of Project Work are accepted by the City, this PLA shall have no further force or effect on such items or areas except where the Contractor is directed by the City or its representatives to engage in repairs, modification and/or check-out functions required by its contract(s) with the City.

Section 3.11 Except for all work performed under the NTL Articles of Agreement, the National Stack/Chimney Agreement, and the National Cooling Tower Agreement, all instrument calibrations work and loop checking shall be performed under the terms of the UA/IBEW Joint National Agreement for Instrument and Control Systems Technicians, and the National Agreement of the International Union of Elevator Constructors, with the exception of Article 7 (Work Stoppages and Lockouts), Article 8 (Work Assignments and Jurisdictional Disputes) and Article 10 (Settlement of Grievances and Disputes) of this PLA, which shall apply to such work.

ARTICLE 4

UNION RECOGNITION AND EMPLOYMENT

Section 4.1 **Recognition.** The Contractor recognizes the Unions as the exclusive bargaining representative for the employees engaged in Project Work. Such recognition does not extend beyond the period when the employee is engaged in Project Work.

Section 4.2 **Contractor Selection of Employees.** The Contractor shall have the right to determine the competency of all employees, the number of employees required, the duties of such employees within their craft jurisdiction, and shall have the sole responsibility for selecting employees to be laid off, consistent with this Article. The Contractor shall also have the right to reject any applicant referred by a Union for any reason, subject to any reporting time requirements of the applicable Schedule A; provided, however, that such right is exercised in good faith and not for the purpose of avoiding the Contractor's commitment to employ qualified workers through the procedures endorsed in this PLA.

Section 4.3 **Referral Procedures.**

(a) For signatory Unions to this Agreement having a job referral system contained in a Schedule A, the Contractor agrees to comply with such system and it shall be used exclusively by such Contractor, except as modified by this PLA. Such job referral system will be operated in a nondiscriminatory manner and in full compliance with federal, state, and local laws and regulations that require equal employment opportunities and non-discrimination. All of the foregoing hiring procedures, including related practices affecting apprenticeship, shall be operated so as to consider the goals of the City to encourage employment of City Residents, Targeted Workers, and utilization of Disadvantaged Business Enterprises on the Project Work, and to facilitate the ability of all Contractors to meet their employment needs.

(b) The local Unions will exert their best efforts to recruit and refer sufficient numbers of skilled craft workers to fulfill the labor requirements of the Contractor, including specific employment obligations to which the Contractor may be legally and/or contractually obligated; and to refer Apprentices as requested to develop a larger, skilled workforce. The Unions will work with the Project Labor Coordinator and others designated by the City, to identify and refer competent craft persons as needed for Project Work, and to identify individuals, particularly City Residents and Targeted Workers, for entrance into Apprenticeship Programs, or participation in other identified programs and procedures to assist individuals in qualifying and becoming eligible for such Apprenticeship Programs, all maintained to increase the available supply of skilled craft personnel for Project Work and future construction work to be undertaken by the City.

(c) The Union shall not knowingly refer an employee currently employed by a Contractor on Project Work to any other Contractor.

Section 4.4 Non-Discrimination in Referral, Employment, and Contracting. The Unions and Contractors agree that they will not discriminate against any employee or applicant for employment on the basis of race, color, religion, gender, national origin, age, Union status, sex, sexual orientation, marital status, political affiliation, or disability. Further, it is recognized that the City has certain policies, programs, and goals for the utilization of Disadvantaged Business Enterprises. The Parties shall jointly endeavor to assure that these commitments are fully met, and that any provisions of this PLA that may appear to interfere with Disadvantaged Business Enterprises successfully bidding for work on Covered Projects shall be carefully reviewed, and adjustments made as may be appropriate and agreed upon among the Parties, to ensure full compliance with the spirit and letter of the City's policies and commitment to its goals for the significant utilization of Disadvantaged Business Enterprises as Contractors, vendors or suppliers on Project Work.

Section 4.5 Employment of City Residents and Targeted Workers.

(a) In recognition of the City's mission to serve the City and its residents, the Unions and Contractors agree that, to the extent allowed by law, and as long as they possess the requisite skills and qualifications, residents of the City of San Diego, hereafter "City Residents", shall be first referred for Project Work. A "City Resident" is defined as a City of San Diego permanent resident at the time of initial employment on a Covered Project or a Veteran residing anywhere. The

list of qualifying zip codes for City Residents is included within Attachment B-1, Workforce Dispatch Request Form.

(b) The Contractors and Unions agree to work together to achieve a goal of at least thirty-five (35) percent of the total construction craft hours worked on each Covered Project be performed by City Residents.

(c) The Contractors and Unions agree to work together to achieve a goal of at least ten (10) percent of the total construction craft hours worked on each Covered Project be performed by Targeted Workers. Hours worked by Targeted Workers who are also City Residents may be applied to the City Resident participation goal.

(d) Professional services agreements entered into by the City for covered surveying or inspection services, which are separate and apart from the Construction Contract for a Covered Project, are exempt from the foregoing City Resident and Targeted Worker hiring goals.

(e) To facilitate the dispatch of City Residents, as well as all Contractor requests for referral and dispatch of workers from the applicable Union referral system, all Contractors are required to utilize the Workforce Dispatch Request Form for Covered Projects, a sample of which is attached as Attachment B-1.

(f) The Project Labor Coordinator shall work with the Unions and Contractors in the administration, monitoring, and the reporting of the foregoing City Resident and Targeted Worker hiring goals.

(g) The Parties recognize that the Pure Water Program Phase I Projects have multiple funding sources. If a particular funding source applied by the City to a Covered Project does not allow geographic preference for hiring local craft workers, the foregoing City Resident participation requirement will not be applicable to that Covered Project. The City reserves the right to apply Pure Water Program Phase I funding as it chooses and will make every effort to fund the Covered Projects to encourage inclusivity of City Residents.

Section 4.6 Core Employees. This Section only applies to Contractors who are not directly signatory to an applicable Schedule A.

(a) Disadvantaged Business Enterprise. The Parties recognize the City's interest in promoting competition and inclusion of Disadvantaged Business Enterprises, which may not be signatory to a current Schedule A. In order to promote participation and attract Disadvantaged Business Enterprises to work

under this Agreement, and subject to the limitations set forth below, each Contractor that is a Disadvantaged Business Enterprise may first employ three (3) of its core employees per craft on each Covered Project prior to employing an employee through the appropriate Union hiring hall. The next (fourth) employee shall be hired from the appropriate Union hiring hall and thereafter, such Contractor may employ, as needed, two (2) additional Core Employees in an alternating manner with Union referrals, up to a total of five (5) Core Employees. Thereafter, all additional employees in the affected trade or craft shall be requested and referred from the appropriate Union hiring hall.

The foregoing Core Employee hiring procedure for Disadvantaged Business Enterprises is subject to the following limitations:

(1) Disadvantaged Business Enterprises with an individual subcontract value of \$500,000 or less and;

(2) Disadvantaged Business Enterprises are limited to utilizing the foregoing Core Employee hiring procedure to one (1) subcontract per Covered Project and;

(3) The total value of all subcontracts utilizing the foregoing Core Employee hiring procedure shall not exceed ten (10) percent of the total value of each Covered Project; and

(4) In order to assist the Project Labor Coordinator monitor compliance with this Section, each Prime Contractor will be responsible for tracking, reporting and providing notice to the Project Labor Coordinator describing each Disadvantaged Business Enterprise subcontract that qualifies for the foregoing hiring procedure prior to work commencing.

(b) Employers who do not qualify for the hiring procedure set forth in Section 4.6(a), and who are not otherwise signatory to a current Schedule A, may employ, as needed, first, a Core Employee, then an employee through a referral from the appropriate Union hiring hall, then a second Core Employee, then a second employee through the referral system, and so on until a maximum of three (3) Core Employees are employed per craft on each Covered Project. Thereafter, all additional employees in the affected trade or craft shall be requested and referred from the appropriate Union hiring hall in accordance with this Article. Contractors employing more than fifty (50) craft workers at the same time in a specific trade on a Covered Project may hire an additional two (2) Core Employees.

(c) Section 4.6 only applies to Contractors who are not directly signatory to a current Schedule A for the craft worker in its employ and is not intended to limit the transfer provisions of the Schedule A of any trade. As part of this process, and in order to facilitate the contract administration procedures, as well as appropriate fringe benefit fund coverage, all Contractors shall require their Core Employees and any other persons employed other than through the referral process, to register with the appropriate Union hiring hall, if any, prior to their first day of employment working under the Construction Contract at the project site.

(d) Prior to each Contractor performing any work on a Covered Project, each Contractor shall provide a list of Core Employees to the Project Labor Coordinator and the Council. After submitting the Core Employee list prior to commencing work, Contractors shall not make any changes or substitutions to the Core Employee list for the duration of the Covered Project. Failure to submit the Core Employee list prior to work commencing will prohibit the Contractor from using any Core Employees for 30 calendar days after the list is provided to the Project Labor Coordinator and Council.

(e) Upon request by any Party to this Agreement, the Contractor hiring any Core Employee shall provide satisfactory proof (i.e., payroll records, quarterly tax records, and such other documentation) evidencing the Core Employee's qualification as a Core Employee to the Project Labor Coordinator and the Council.

(f) Core Employees must meet the following eligibility requirements to qualify for employment on Covered Projects:

(1) A Core Employee must be either a journeyperson or Apprentice and appear on the Contractor's active payroll for at least ninety (90) of the last one-hundred-eighty (180) working days prior to being designated as a Core Employee. The date a Core Employee is designated is the date the Core Employee list is submitted to the Project Labor Coordinator and Council prior to the Contractor commencing work; and

(2) A Core Employee must possess any license required by state or federal law for the Project Work to be performed; and

(3) A Core Employee must have the ability to safely perform the basic functions of the applicable trade.

(g) In addition to the core employee provisions set forth herein, all Contractors may avail themselves of any opportunity provided for in the applicable Schedule A's to call for specific employees by name.

(h) During any layoffs or reductions in workforce, Contractors shall layoff employees in an order and manner consistent with the Core Employee hiring procedures and maintain the required Core Employee-to-Union referral ratios required by this Section for the duration of each Covered Project.

Section 4.7 Time for Referral. If any Union's registration and referral system does not fulfill the requirements for specific classifications of covered employees (including City Residents) requested by any Contractor within forty-eight (48) hours (excluding Saturdays, Sundays, and holidays), that Contractor may employ Core Employees without reference to the ratio requirements in Section 4.6 or use employment sources other than the Union registration and referral services, and may employ applicants from any other available source. The Contractor should promptly inform the Union of any applicants hired from other sources, and such applicants shall register with the appropriate hiring hall, if any.

Section 4.8 Lack of Referral Procedure. If a signatory local Union does not have a job referral system as set forth in Section 4.3 above, the Contractors shall give the Union equal opportunity to refer applicants. The Contractors shall notify the Union of employees so hired, as set forth in Section 4.7.

Section 4.9 Union Membership. Employees are not required to become or remain union members as a condition of performing Covered Work under this Agreement. Employers shall make and transmit all deductions for union dues, fees, and assessments that have been authorized by employees in writing in accordance with the applicable Schedule A. Nothing in this Section 4.9 is intended to supersede the requirements of the applicable Schedule A's as to those Employers otherwise signatory to such Schedule A and as to the employees of those Employers who are performing Covered Work.

Section 4.10 Foremen. The selection and number of craft foremen and/or general foremen shall be the responsibility of the Contractor, consistent with the Schedule A's. All foremen shall take orders exclusively from the designated Contractor representatives. Craft foremen shall be designated as working foreman at the request of the Contractors.

Section 4.11 Skilled and Trained Workforce. All Contractors performing Project Work are required to provide the City with an enforceable commitment that a skilled and

trained workforce will be used to complete the construction contract or project, in accordance with City Council Resolution Number R-312062.

ARTICLE 5

UNION ACCESS AND STEWARDS

Section 5.1 Access to Project Sites. Authorized representatives of the Union shall have access to Project Work, provided that they do not interfere with the work of employees and further provided that such representatives fully comply with posted visitor, security, and safety rules.

Section 5.2 Stewards.

(a) Each signatory local Union shall have the right to dispatch a working journeyman as a steward for each shift, and shall notify the Contractor in writing of the identity of the designated steward or stewards prior to the assumption of such person's duties as steward. Such designated steward or stewards shall not exercise any supervisory functions. There will be no non-working stewards. Stewards will receive the regular rate of pay for their respective crafts.

(b) In addition to his/her work as an employee, the steward should have the right to receive, but not to solicit, complaints or grievances and to discuss and assist in the adjustment of the same with the employee's appropriate supervisor. Each steward should be concerned only with the employees of the steward's Contractor and not with the employees of any other Contractor. The Contractor will not discriminate against the steward in the proper performance of his/her Union duties.

(c) When a Contractor has multiple, non-contiguous work locations at one site, the Contractor may request and the Union shall appoint such additional working stewards as the Contractor requests to provide independent coverage of one or more such locations. In such cases, a steward may not service more than one work location without the approval of the Contractor.

(d) The stewards shall not have the right to determine when overtime shall be worked or who shall work overtime.

Section 5.3 Steward Layoff/Discharge. The Contractor agrees to notify the appropriate Union twenty-four (24) hours before the layoff of a steward, except in the case of

disciplinary discharge for just cause. If the steward is protected against such layoff by the provisions of the applicable Schedule A, such provisions shall be recognized when the steward possesses the necessary qualifications to perform the remaining work. In any case in which the steward is discharged or disciplined for just cause, the appropriate Union will be notified immediately by the Contractor, and such discharge or discipline shall not become final (subject to any later filed grievance) until twenty-four (24) hours after such notice has been given.

Section 5.4 Employees on Non-Project Work. On work where the personnel of the City may be working in close proximity to the construction activities covered by this PLA, the Union agrees that the Union representatives, stewards, and individual workers will not interfere with the City personnel, or with personnel employed by any other employer not a Party to this PLA.

ARTICLE 6

WAGES AND BENEFITS

Section 6.1 Wages. At a minimum, all employees covered by this PLA shall be classified in accordance with work performed and paid the hourly wage rates for those classifications in compliance with the Applicable Prevailing Wage Determination established pursuant to the California Labor Code by the California Department of Industrial Relations.

Section 6.2 Benefits.

(a) Subject to the exception set forth below for Disadvantaged Business Enterprises, otherwise, for all employees performing Project Work, Contractors shall pay all fringe benefits and other required employer contributions to the established Union employee benefit funds in the amounts required by the applicable Schedule A. In addition, the Contractors and Unions agree that only such bona fide employee benefits that accrue to the direct benefit of the employees (such as pension and annuity, health and welfare, vacation, apprenticeship, and training funds) shall be included in this requirement and required to be paid by the Contractor on Covered Projects. These Contractor contributions shall not exceed the contribution amounts set forth in the Applicable Prevailing Wage Determination.

Union Benefit Fund Contributions for Disadvantaged Business Enterprises. Disadvantaged Business Enterprises are exempt from paying fringe benefits and

other required employer contributions on behalf of their Core Employees to the Union employee benefit funds, subject to the following exemption limitations:

(1) The exemption is only applicable to Disadvantaged Business Enterprises with an individual subcontract value of \$500,000 or less and;

(2) Disadvantaged Business Enterprises are limited to utilizing this exemption for one subcontract per Covered Project and;

(3) The total value of all subcontracts utilizing this exemption shall not exceed ten (10) percent of the total value of each Covered Project; and

(4) Disadvantaged Business Enterprises utilizing this exemption are still required to pay all fringe benefits and other required employer contributions to the established Union employee benefit funds for all employees other than their Core Employees, and must comply with the applicable prevailing wage requirements, including the payment of fringe benefits, for all employees performing Project Work; and

(5) In order to assist the Project Labor Coordinator monitor utilization of this exemption, each Prime Contractor will be responsible for tracking, reporting and providing notice to the Project Labor Coordinator about each Disadvantaged Business Enterprise subcontract that qualifies and intends to utilize this exemption prior to work commencing.

(b) Where applicable, the Contractor adopts and agrees to be bound by the written terms of the applicable, legally established, Union trust agreement(s) specifying the detailed basis how payments will be made into, and benefits paid out of, such trust funds for its employees. The Contractor authorizes the Parties to such trust funds to appoint trustees and successors' trustees to administer the trust funds and hereby ratifies and accepts the trustees so appointed as if made by the Contractor. The Contractor obligations to the applicable Union benefit fund(s) and trust agreement(s) are limited to work performed on a Covered Project. The applicable Union benefit funds and trust agreement(s) to each Contractor are determined by the pre-job conference and Union work assignment process described in Articles 8 and 16.

(c) Each Contractor is required to certify to the Project Labor Coordinator that it has paid all benefit contributions due and owing to the appropriate Union trust(s) and benefit funds prior to the receipt of its final payment and/or retention. Further, upon timely notification by a Union to the Project Labor Coordinator, the Project Labor Coordinator shall work with any Contractor who is delinquent in

payments to assure that proper benefit contributions are made, to the extent of requesting the City or the prime Contractor to withhold payments otherwise due such Contractor, until such contributions have been made or otherwise guaranteed.

(d) Notwithstanding any other provisions, this Agreement is an agreement under Section 8(f) of the National Labor Relations Act (NLRA), which covers work performed in the building and construction industry. In addition, the work performed under this Agreement qualifies for the Construction Industry Exemption under the Employee Retirement and Income Security Act of 1974 (“ERISA”), as amended as well. If any Union Pension Trust Fund (“Fund”) covered by the terms and conditions of this Agreement does not qualify for the Construction Industry Exemption authorized by Section 4203 (B)(1)(i), of the Employee Retirement Income Security Act of 1974 (“ERISA”) as amended, 29 U.S.C. 1383(b)(1)(i), or has not taken the necessary steps to amend the Fund documents to qualify for the Construction Industry Exemption as authorized by Section 4203(B)(1)(ii) of ERISA, as amended, 29 U.S.C. 1383(b)(1)(B)(ii); and to recognize the work performed under this Agreement to qualify for the Construction Industry Exemption, the Contractors signatory to this Agreement will not be obligated to make pension fund contributions to that Fund. In such an event, the Contractor shall pay all required amounts otherwise allocated for payment toward the non-exempt Fund to the employees’ wages or other bona fide retirement plan program pursuant to applicable prevailing wage requirements.

Section 6.3 Wage Premiums. Wage premiums, including, but not limited to, pay based on height of work, shift premiums, hazard pay, scaffold pay, and special skills shall not be applicable to work under this PLA, except to the extent provided for in any applicable prevailing wage determination.

Section 6.4 Compliance with Prevailing Wage Laws. All complaints regarding possible prevailing wage violations may be referred to the Project Labor Coordinator or Labor Compliance Program, if any, for processing, investigation and resolution, and if not resolved within thirty (30) calendar days, may be referred by any Party to the State Labor Commissioner. To facilitate compliance with applicable prevailing wage laws, the City and each Contractor agree to provide copies of certified payroll reports, redacted only to the extent required by law, to the Unions (or to any Labor Management Cooperation Committee in which a Union or its affiliate participates) within ten (10) days of their request.

ARTICLE 7

WORK STOPPAGES AND LOCKOUTS

Section 7.1 No Work Stoppages or Disruptive Activity. The Council and the Unions signatory hereto agree that they, nor their respective officers, or agents or representatives, shall incite or encourage, condone or participate in any strike, walk-out, slowdown, picketing, observation of picket lines, or other activity of any nature or kind whatsoever, for any cause or dispute whatsoever with respect to or any way related to Project Work, or which interferes with or otherwise disrupts Project Work, or with respect to or related to the City or Contractors or subcontractors, including, but not limited to, economic strikes, unfair labor practice strikes, safety strikes, sympathy strikes, and jurisdictional strikes whether or not the underlying dispute is arbitrable. Any such actions by the Council, or Unions, or their members, agents, representatives, or the employees they represent shall constitute a material violation of this PLA. The Council and the Union shall take all steps necessary to obtain compliance with this Article.

Section 7.2 Employee Violations. The Contractor may discharge any employee violating Section 7.1 above, and any such employee will not be eligible for rehire under this PLA.

Section 7.3 Standing to Enforce. The City, the Project Labor Coordinator, or any Contractor affected by an alleged violation of Section 7.1 shall have standing and the right to enforce the obligations established therein.

Section 7.4 Expiration of Schedule A's. If a collective bargaining agreement between a signatory Contractor and one or more of the Union(s) expires before the Contractor completes the performance of a Covered Contract for a Covered Project, and the Union or the Contractor gives notice of demand for a new or modified collective bargaining agreement, the Unions agree that they will not strike the Contractor on any Covered Project, and the Union and the Contractor agree that the expired collective bargaining agreement will continue in full force and effect for the Project Work until a new or modified collective bargaining agreement is reached between the Union and the Contractor. If the new or modified collective bargaining agreement reached between the Union and the Contractor provides that any terms of the collective bargaining agreement shall be retroactive, the Contractor agrees to comply, consistent with the terms of this PLA and the Prevailing Wage Statute, with any retroactive terms of the new or modified collective bargaining agreement which are applicable to employees of said Contractor that are employed on a Covered Project within seven (7) days at

no cost to the City. All employees shall continue to work and to perform all their obligations with respect to Project Work despite the expiration of a Schedule A agreement. Should a Contractor engaged in Project Work enter into an interim agreement with the Unions for work being performed elsewhere after the expiration, and before the renewal of a local collective bargaining agreement forming the basis for Schedule A, such interim agreement shall be utilized by that Contractor for Project Work, subject to the provisions of Section 21.3.

Section 7.5 No Lock Outs. Contractors shall not cause, incite, encourage, condone or participate in any lock-out of employees with respect to Project Work during the term of this PLA. The term “lock-out” refers only to a Contractor's exclusion of employees in order to secure collective bargaining advantage, and does not refer to the discharge, termination, or layoff of employees by the Contractor for any reason in the exercise of rights pursuant to any provision of this PLA, or any other agreement, nor does “lock-out” include the City's decision to stop, suspend, or discontinue any Project Work or any portion thereof for any reason.

Section 7.6 Best Efforts to End Violations.

(a) If a Contractor contends that there is any violation of this Article, it shall, at least twenty-four (24) hours prior to invoking the procedures of Section 7.7, provide written notification to the Council of the involved Union(s) and to the Project Labor Coordinator, setting forth the facts which the Contractor contends violates this Article. The Council and the leadership of the involved Union(s) will immediately instruct, order, and use their best efforts to cause the cessation of any violation of the Article.

(b) If the Union contends that any Contractor has violated this Article, it will notify the Contractor and the Project Labor Coordinator, setting forth the facts which the Union contends violate this Article, at least twenty-four (24) hours prior to invoking the procedures of Section 7.7. The Project Labor Coordinator shall promptly order the involved Contractor(s) to cease any violation of the Article.

Section 7.7 Expedited Enforcement Procedure. Any Party, including the City, which is an intended beneficiary of this Article, or the Project Labor Coordinator, may institute the following procedures, in lieu of or in addition to any other action at law or equity, when a breach of this Article is alleged.

(a) The Party invoking this procedure shall notify Thomas Pagan, who has been selected by the negotiating Parties, and whom the Parties agree shall be the permanent arbitrator under this procedure, or Barry Winograd, as the alternate

arbitrator under this procedure. If the permanent arbitrator is unavailable at any time, the alternate will be contacted. If neither is available, then a selection shall be made from the list of arbitrators as set forth in Article 10. Notice to the arbitrator shall be by the most expeditious means available, with notices to the Parties alleged to be in violation, and to the Project Labor Coordinator and Council. For purposes of this Article, written notice may be given by email, facsimile, hand delivery, or overnight mail and will be deemed effective upon receipt.

(b) Upon receipt of said notice, the arbitrator named above or his/her alternate shall sit and hold a hearing within twenty-four (24) hours if it is contended that the violation still exists, but not sooner than twenty-four (24) hours after notice has been dispatched to the Council of the involved Union(s) and/or Contractor as required by Section 7.6, above.

(c) The arbitrator shall notify the Parties of the place and time chosen for this hearing. Said hearing shall be completed in one session, which, with appropriate recesses at the arbitrator's discretion, shall not exceed twenty-four (24) hours unless otherwise agreed upon by all Parties. A failure of any Party or Parties to attend said hearings shall not delay the hearing of evidence or the issuance of any award by the arbitrator.

(d) The sole issue at the hearing shall be whether or not a violation of this Article has in fact occurred. The arbitrator shall have no authority to consider any matter in justification, explanation, or mitigation of such violation or to award damages, (except for damages as set forth in Section 7.8 below) which issue is reserved for court proceedings, if any. The award shall be issued in writing within three (3) hours after the close of the hearing and may be issued without an opinion. If any Party desires a written opinion, one shall be issued within fifteen (15) days, but its issuance shall not delay compliance with, or enforcement of, the award. The arbitrator may order cessation of the violation of the Article and other appropriate relief, and such award shall be served on all Parties by hand or registered mail upon issuance.

(e) Such award shall be final and binding on all Parties and may be enforced by any court of competent jurisdiction upon the filing of this PLA and all other relevant documents referred to herein above in the following manner. Written notice of the filing of such enforcement proceedings shall be given to the other Party. In any judicial proceeding to obtain a temporary order enforcing the arbitrator's award as issued under Section 7.7(d) of this Article, all Parties waive the right to a hearing and agree that such proceedings may be ex parte. Such

agreement does not waive any Party's right to participate in a hearing for a final order of enforcement. The court's order or orders enforcing the arbitrator's award shall be served on all Parties by hand or by delivery to their address as shown on this PLA (for a Union), as shown on their business contract for work under this PLA (for a Contractor) and to the representing Union (for an employee), by certified mail by the Party or Parties first alleging the violation.

(f) Any rights created by statute or law governing arbitration proceedings inconsistent with the above procedure or which interfere with compliance hereto are hereby waived by the Parties to whom they accrue.

(g) The fees and expenses of the arbitrator shall be equally divided between the Party or Parties initiating this procedure and the respondent Party or Parties.

Section 7.8 Liquidated Damages.

(a) If the arbitrator determines in accordance with Section 7.7 above that a work stoppage has occurred, the respondent Union(s) shall, within eight (8) hours of receipt of the Award, direct all the employees they represent on the project to immediately return to work. If the craft(s) involved do not return to work by the beginning of the next regularly scheduled shift following such eight (8) hour period after receipt of the arbitrator's Award, and the respondent Union(s) have not complied with their obligations to immediately instruct, order, and use their best efforts to cause a cessation of the violation and return the employees they represent to work, then the non-complying Union(s) shall each pay a sum as liquidated damages to the City, and each will pay an additional sum per shift, as set forth in (c), below, for each shift thereafter on which the craft(s) has not returned to work.

(b) If the arbitrator determines in accordance with Section 7.7 above that a lock out has occurred, the respondent Contractor(s) shall, within eight (8) hours after receipt of the award, return all the affected employees to work on the Project, or otherwise correct the violations found by the arbitrator. If the respondent Contractor(s) do not take such action by the beginning of the next regular scheduled shift following the eight (8) hour period, each non-complying respondent Contractor shall pay or give as liquidated damages, to the affected Union(s) (to be apportioned among the affected employees and the benefit funds to which contributions are made on their behalf, as designated by the arbitrator) and each shall pay an additional sum per shift, as set forth in (c), below, for each shift thereafter in which compliance by the respondent Contractor(s) has not been completed.

(c) The Parties agree that project delays caused by violations of this Article will cause the City to sustain damages. They agree that it would be impractical or extremely difficult to fix the amount of such damages. Therefore, the Parties agree that, in the event of a breach of either of these provisions, the Party in breach shall pay to the City the sum of not less than \$10,000.00 and no more than \$20,000.00 per shift from the time the arbitrator determines that a delay has occurred until the arbitrator determines that the project is again on construction schedule. The payment, when made, shall constitute a damages remedy of the City for the delay specified, but shall not prevent the City from seeking an injunctive or other monetary relief, including termination of this PLA. Payment of these sums as liquidated damages is not intended as a forfeiture or penalty within the meaning of California Civil Code sections 3275 or 3369, but instead, is intended to constitute liquidated damages to the City pursuant to section 1671 of the California Civil Code.

ARTICLE 8

WORK ASSIGNMENTS AND JURISDICTIONAL DISPUTES

Section 8.1 No Jobsite Disruption. There will be no strikes, work stoppages, picketing, sympathy strikes, slowdowns, or other interferences with the work because of jurisdictional disputes between Unions. The assignment of work will be solely the responsibility of the Contractor performing the work involved; and such work assignments will be in accordance with the Plan for Settlement of Jurisdictional Disputes in the Construction Industry (the “Plan”) or any successor Plan.

Section 8.2 All jurisdictional disputes on this project shall be settled and adjusted according to the present Plan established by the Building and Construction Trades Department or any other plan or method of procedure that may be adopted by the Building and Construction Trades Department. Decisions rendered shall be final and binding and conclusive on the Contractors and Unions parties to this PLA.

All jurisdictional disputes shall be resolved without the occurrence of any of the activities prohibited in Article 7 (Work Stoppages and Lockouts), and the Contractor’s assignment shall be adhered to until the dispute is resolved. Individuals violating this section shall be subject to immediate discharge.

Section 8.2.1 If a dispute arising under this Article involves the Southwest Regional Council of Carpenters or any of its subordinate bodies, an arbitrator shall be chosen by the procedures specified in Article V, Section 5, of the Plan from a list composed of Thomas Pagan, Thomas Angelo, Robert Hirsch, and John Kagel, and the

arbitrator's hearing on the dispute shall be held at the offices of the Council within fourteen (14) days of the selection of the arbitrator. All other procedures shall be as specified in the Plan.

Section 8.3 Failure to Comply. If any Union or Contractor fails to immediately and fully comply with the final decision rendered by the Plan, affected Union(s) or Contractor(s) may seek legal redress for such conduct, including, but not limited to, injunctive relief and/or damages.

Section 8.4 Pre-job Conference. It is required that a pre-job conference be held not later than fourteen (14) calendar days prior to the start of work by each Contractor for the Covered Project in accordance with the procedure described in Article 16.

ARTICLE 9

MANAGEMENT RIGHTS

Section 9.1 Contractor and City Rights. The Contractors and the City have the sole and exclusive right and authority to oversee and manage construction operations on Project Work without any limitations unless expressly limited by a specific provision of this PLA. In addition to the following and other rights of the Contractors enumerated in this PLA, the Contractors expressly reserve their management rights and all the rights conferred upon them by law. The Contractor's rights include, but are not limited to, the right to:

- (a) Plan, direct, and control operations of all work; and
- (b) Hire, promote, transfer, and layoff their own employees, respectively, as deemed appropriate to satisfy work and/or skill requirements; and
- (c) Promulgate and require all employees to observe reasonable job rules and security and safety regulations; and
- (d) Discharge, suspend, or discipline their own employees for just cause; and
- (e) Utilize, in accordance with City approval, any work methods, procedures, or techniques, and select, use, and install any types or kinds of materials, apparatus, or equipment, regardless of source of manufacture or construction; and
- (f) Assign and schedule work at their discretion; and

(g) Assign overtime, determine when it will be worked and the number and identity of employees engaged in such work, subject to such provisions in the applicable Schedule A(s) requiring such assignments be equalized or otherwise made in a nondiscriminatory manner.

Section 9.2 Specific City Rights. In addition to the following and other rights of the City enumerated in this PLA, the City expressly reserves its management rights and all the rights conferred on it by law and contract. The City's rights (and those of the Project Labor Coordinator on its behalf) include, but are not limited to the right to:

(a) Inspect any construction site or facility to ensure that the Contractor follows the applicable safety and other work requirements; and

(b) At its sole option, terminate, delay, and/or suspend any and all portions of the Project Work at any time; prohibit some or all work on certain days or during certain hours of the day to accommodate the ongoing operations of the City and/or to mitigate the effect of ongoing Project Work on businesses and residents in the neighborhood of the Project sites; and/or require any other operational or schedule changes it deems necessary, in its sole judgment, to meet Project deadlines and remain a good neighbor to those in the area of the Covered Projects. (In order to permit the Contractors and Unions to make appropriate scheduling plans, the City will provide the Project Labor Coordinator, and the affected Contractor[s] and Union[s] with reasonable notice of any changes it requires pursuant to this section); and

(c) Approve any work methods, procedures, and techniques used by Contractors whether or not these methods, procedures, or techniques are part of industry practices or customs; and

(d) Investigate and process complaints or disagreements, through its Project Labor Coordinator.

Section 9.3 Use of Materials. There should be no limitations or restrictions by the Union upon a Contractor's choice of materials or design, nor, regardless of source or location, upon the full use and utilization of equipment, machinery, packaging, precast, prefabricated, prefinished, or preassembled materials, tools, or other labor-saving devices, subject to the application of the California Public Contract and Labor Codes. Generally, the onsite installation or application of such items shall be performed by the craft having jurisdiction over such work.

Section 9.4 Special Equipment, Warranties, and Guaranties.

(a) It is recognized that certain equipment of a highly technical and specialized nature may be installed at Covered Project sites. The nature of the equipment, together with the requirements for manufacturer's warranties, may dictate that it be prefabricated, pre-piped, and/or pre-wired and that it be installed under the supervision and direction of the City's and/or manufacturer's personnel. The Unions agree that such equipment is to be installed without incident.

(b) The Parties recognize that the Contractor will initiate from time to time the use of new technology, equipment, machinery, tools, and other labor-savings devices and methods of performing Project Work. The Unions agree that they will not restrict the implementation of such devices or work methods. The Unions will accept and will not refuse to handle, install, or work with any standardized and/or catalogue parts, assemblies, accessories, prefabricated items, preassembled items, partially assembled items, or materials whatever their source of manufacture or construction.

(c) If any disagreement between the Contractor and the Unions concerning the methods of implementation or installation of any equipment, device, or item, or method of work arises, or whether a particular part or pre-assembled item is a standardized or catalog part or item, the work will proceed as directed by the Contractor, and the Parties shall immediately consult over the matter. If the disagreement is not resolved, the affected Union(s) shall have the right to proceed through the procedures set forth in Article 10.

ARTICLE 10

SETTLEMENT OF GRIEVANCES AND DISPUTES

Section 10.1 Cooperation and Harmony on Site.

(a) This PLA is intended to establish and foster continued close cooperation between management and labor. The Council shall assign a representative to this Project for the purpose of assisting the local Unions, and working with the Project Labor Coordinator, together with the Contractors, to complete construction of the Project Work economically, efficiently, continuously, and without any interruption, delays, or work stoppages.

(b) The Project Labor Coordinator, the Contractors, Unions, and employees collectively and individually, realize the importance to all Parties of maintaining continuous and uninterrupted performance of Project Work, and agree to resolve

disputes in accordance with the grievance provisions set forth in this Article or, as appropriate, those of Article 7 or 8.

(c) The Project Labor Coordinator shall observe the processing of grievances under this Article and Articles 7 and 8, including the scheduling and arrangements of facilities for meetings, selection of the arbitrator from the agreed-upon panel to hear the case, and any other administrative matters necessary to facilitate the timely resolution of any dispute; provided, however, it is the responsibility of the principal Parties to any pending grievance to ensure the time limits and deadlines are met.

Section 10.2 Processing Grievances. Any questions arising out of and during the term of this PLA involving its interpretation and application, which includes applicable provisions of the Schedule A's, but not alleged violations of Articles 7 or 8, shall be considered a grievance and subject to resolution under the following procedures.

Step 1. (a) Employee Grievances. When any employee subject to the provisions of this PLA feels aggrieved by an alleged violation of this PLA, the employee shall, through his local Union business representative or job steward, within ten (10) working days after the occurrence of the violation, give notice to the work site representative of the involved Contractor stating the provision(s) alleged to have been violated, the details of the alleged violation and the remedy sought to resolve the matter. A grievance shall be considered null and void if notice of the grievance is not given within the ten (10) day period. A business representative of the local Union or the job steward and the work site representative of the involved Contractor shall meet and endeavor to adjust the matter within ten (10) working days after timely notice has been given. If they fail to resolve the matter within the prescribed period, the grieving Party may, within ten (10) working days thereafter, pursue Step 2 of this grievance procedure provided the grievance is reduced to writing, setting forth the relevant information, including a short description thereof, the date on which the alleged violation occurred, and the provision(s) of the applicable agreement alleged to have been violated. Grievances and disputes settled at Step 1 shall be non-precedential except as to the Parties directly involved.

(b) Union or Contractor Grievances. Should the Union(s) or any Contractor have a dispute with the other Party(ies) and, if after conferring within ten (10) working days after the disputing Party knew or should have known of the facts or occurrence giving rise to the dispute, a settlement is not reached within five (5) working days, the dispute shall be reduced to writing and processed to Step 2 in

the same manner as outlined in Step 1(a) above for the adjustment of an employee complaint.

Step 2. The business manager of the involved local Union or his designee, together with the site representative of the involved Contractor, and the labor relations representative of the Project Labor Coordinator shall meet within seven (7) working days of the referral of the dispute to this second step to arrive at a satisfactory settlement thereof. If the Parties fail to reach an agreement, the dispute may be appealed in writing in accordance with the provisions of Step 3 within seven (7) calendar days after the initial meeting at Step 2.

Step 3. (a) If the grievance shall have been submitted but not resolved under Step 2, either the Union or Contractor Party may request in writing to the Project Labor Coordinator (with copy[ies] to the other Party[ies]) within seven (7) calendar days after the initial Step 2 meeting, that the grievance be submitted to an arbitrator selected from the agreed-upon list below, on a rotational basis in the order listed. Those arbitrators are: (1) Thomas Pagan; (2) David Hart; (3) Edna Francis; (4) Mike Rappaport; (5) Michael Prihar; (6) Fred Horowitz; and (7) Sara Adler. The decision of the arbitrator shall be final and binding on all Parties, and the fee and expenses of such arbitrations shall be borne equally by the involved Contractor(s) and the involved Union(s).

(b) Failure of the grieving Party to adhere to the time limits established herein shall render the grievance null and void. The time limits established herein may be extended only by written consent of the Parties involved at the particular step where the extension is agreed upon. The arbitrator shall have the authority to make decisions only on issues presented and shall not have the authority to change, amend, add to, or detract from any of the provisions of this PLA.

Section 10.3 Limit on Use of Procedures. Procedures contained in this Article shall not be applicable to any alleged violation of Article 7 or 8, with a single exception that any employee discharged for violation of Section 7.2 may resort to the procedures of this Article to determine only if he/she was, in fact, engaged in that violation.

Section 10.4 Notice. The Project Labor Coordinator (and the City, in the case of any grievance regarding the Scope of this PLA), shall be notified by the involved Contractor of all actions at Steps 2 and 3, and further, the Project Labor Coordinator shall, upon its own request, be permitted to participate fully in all proceedings at such steps.

ARTICLE 11

COMPLIANCE

Section 11.1 Compliance with All Laws. The Council and all Unions, Contractors, and their employees shall comply with all applicable federal and state laws, ordinances, and regulations including, but not limited to, those relating to safety and health, employment, and applications for employment. All employees shall comply with the safety regulations established by the City, the Project Labor Coordinator, and the Contractor. Employees must promptly report any injuries or accidents to a supervisor.

Section 11.2 Monitoring Compliance. The Parties agree that the City shall require, and that the Project Labor Coordinator and Council shall monitor, compliance by all Contractors with all federal and state laws and regulations that, from time to time may apply to Project Work. It shall be the responsibility of both the Council and the Project Labor Coordinator (on behalf of the City) to investigate or monitor compliance with these various laws and regulations. The Council may recommend to the Project Labor Coordinator and/or the City procedures to encourage compliance with these laws and regulations.

Section 11.3 Prevailing Wage Compliance. The Council or Union may refer all complaints regarding any potential prevailing wage violation to the Project Labor Coordinator, who may process, investigate, and resolve such complaints. The Council or Union, as appropriate, shall be advised in a timely manner with regard to the facts and resolution, if any, of any complaint. It is understood that this Section does not restrict any individual rights as established under the State Labor Code, including the rights of an individual to file a complaint with the State Labor Commissioner.

Section 11.4 Violations of Law. Based upon a finding of violation by the City of a federal and state law, and upon notice to the Contractor that it is in such violation, the City, in the absence of the Contractor remedying such violation, shall take such action as it is permitted by law or contract to encourage the Contractor to come into compliance, including, but not limited to, assessing fines and penalties and/or removing the offending Contractor from Project Work.

ARTICLE 12

SAFETY AND PROTECTION OF PERSON AND PROPERTY

Section 12.1 Safety.

(a) It shall be the responsibility of each Contractor to ensure safe working conditions and employee compliance with all applicable safety laws and regulations and any safety rules contained herein or established by the City, the Project Labor Coordinator, or the Contractor. It is understood that employees have an individual obligation to use diligent care to perform their work in a safe manner and to protect themselves and the property of the Contractor and the City.

(b) All Parties and Contractor employees shall be bound by the safety, security, and visitor rules established by the Contractor, the Project Labor Coordinator, and the City. These rules will be published and posted. An employee's failure to satisfy his/her obligations under this Section will subject him/her to discipline, up to and including discharge.

Section 12.2 Drug and Alcohol Testing Policy. The Parties agree to adopt the Drug and Alcohol Testing Policy attached hereto as Attachment C, which is the exclusive Drug and Alcohol Testing Policy for Covered Projects.

Section 12.3 Inspection. The inspection of shipments of equipment, machinery, and construction materials of every kind shall be performed at the discretion of the Contractor by individuals of its choice.

ARTICLE 13

TRAVEL AND SUBSISTENCE

Section 13.1 Travel expenses, travel time, subsistence allowances and/or zone rates, and parking reimbursements shall not be applicable to work under this PLA, except to the extent provided for in any applicable prevailing wage determination. Parking for employees covered by this PLA shall be provided by the Contractor(s) according to the provision of the Schedule A(s) existing on the Effective Date of this PLA and upon presentation of proof of any expense incurred.

ARTICLE 14

APPRENTICES

Section 14.1 Importance of Training. The Parties recognize the need to maintain continuing support of the programs designed to develop adequate numbers of competent workers in the construction industry, the obligation to capitalize on the availability of the local work force in the area served by the City, and the opportunities to provide continuing work on Covered Projects for City Residents and Targeted Workers. To these ends, and consistent with any laws or regulations, the Parties will facilitate, encourage, and assist City Residents and Targeted Workers commence and progress in Apprenticeship Programs and/or apprenticeship readiness programs in the construction industry leading to participation in such Apprenticeship Programs. The City, the Project Labor Coordinator, other City consultants, the Contractors, and the Council and Unions, will work cooperatively to identify, or establish and maintain, effective programs and procedures for persons interested in entering the construction industry and which will help prepare them for the entry into Apprenticeship Programs. Apprentices, if utilized, must be enrolled in a California Apprenticeship Council-approved Apprenticeship Program.

Section 14.2 Use of Apprentices.

(a) The Unions and Contractors agree to cooperate in referring and employing Apprentices up to the maximum percentage allowed by the State Labor Code and the standards of each State-Approved Apprenticeship Program. The minimum ratios for Apprentice to journey person hours worked shall be in compliance, at a minimum, with the applicable provisions of the State Labor Code relating to utilization of Apprentices. The City, unless otherwise required by law, shall encourage such utilization, and, both as to Apprentices and the overall supply of experienced workers, the Project Labor Coordinator will work with the Council, Apprenticeship Programs, and Contractors to assure appropriate and maximum utilization of Apprentices and the continuing availability of both Apprentices and journey persons.

(b) The Parties agree that all Contractors will comply with all applicable laws and regulations in the request for dispatch and employment of Apprentices.

(c) The Parties agree that Apprentices will not be dispatched to Contractors working under this PLA unless there is a journeyman or other Contractor employee working on the Project where the Apprentice is to be employed who is

qualified to assist and oversee the Apprentice's progress through the program in which he/she is participating.

ARTICLE 15

LEGAL ACTION

Section 15.1 Legal Action. The City, Council and Unions recognize the substantial legal costs (including all attorney's fees and associated disbursements) that might accrue with regard to any legal challenge over the adoption by the City of this PLA, and related to claims directly challenging the legality of this PLA, or a particular section or language that has been adopted herein. In the event of a legal challenge, the Council, on behalf of itself and affiliated Unions, agrees to seek to intervene in the legal action and actively participate in the litigation or other action to defend the legality of this PLA, or a particular section or language herein. The failure of the Council to seek to intervene in the legal action and actively participate to defend the legality of this PLA will constitute a material breach of this PLA. In the event the Council is denied leave to intervene in the legal action, the Council shall have its counsel coordinate with the City's counsel, at the Council's own expense, regarding how the Council can best support the City's legal position.

ARTICLE 16

PRE-JOB CONFERENCE

Section 16.1 Each Contractor is required to conduct a pre-job conference with the Unions not later than fourteen (14) calendar days prior to commencing work. The purpose of the conference will be to, among other things, convey craft manpower needs, the schedule of work for the Covered Project, project work rules, and propose preliminary Union work assignments. The Project Labor Coordinator may work with the Prime Contractor and Council to facilitate the scheduling of all pre-job conferences, but ensuring each Contractor conducts a pre-job conference in accordance with this Agreement is the responsibility of the Prime Contractor. All preliminary Union work assignments shall be disclosed by each Contractor at a pre-job conference. Should there be work within the scope of a Construction Contract for a Covered Project that was not previously assigned at a pre-job conference, or additional work be added to the scope of the Covered Project, the Contractor(s) performing such work will conduct a separate pre-job conference.

Any Union in disagreement with a proposed assignment shall notify the affected Contractor of its position in writing, with a copy sent to the Project Labor Coordinator, within seven (7) calendar days after the pre-job conference occurred. Within seven (7) calendar days after the period allowed for Union notices of disagreement with the Employer's proposed assignments, but prior to the commencement of any work, the Employer shall make final assignments in writing with copies sent to the Project Labor Coordinator and Council.

ARTICLE 17

LABOR/MANAGEMENT AND COOPERATION

Section 17.1 Joint Committee. The Parties to this PLA will form a joint committee consisting of three (3) representatives selected by the Council and three (3) representatives selected by the Project Labor Coordinator, to be chaired jointly by a representative of the Project Labor Coordinator and the Council. The purpose of the Committee shall be to promote harmonious and stable labor management relations on this Project, to ensure effective and constructive communication between labor and management Parties, to advance the proficiency of work in the industry, and to evaluate and ensure an adequate supply of skilled labor for all Project Work. Representatives of the City may participate upon its request, and all Parties will be invited to attend.

Section 17.2 Functions of Joint Committee. The Committee shall meet on a schedule to be determined by the Committee or at the call of the joint chairs, to discuss the administration of the PLA, the progress of the project, general labor management problems that may arise, and any other matters consistent with this PLA. Substantive grievances or disputes arising under Articles 7, 8, or 10 shall not be reviewed or discussed by this Committee, but shall be processed pursuant to the provisions of the appropriate Article.

The Project Labor Coordinator shall be responsible for scheduling of the meetings and the preparation of the agenda topics for the meetings, with input from the Unions, the Contractors, and the City. Notice of the date, time and place of meetings, shall be given to the Committee members at least three (3) days prior to the meeting. The City shall be notified of the meetings and invited to send a representative(s) to participate.

The Project Labor Coordinator shall prepare quarterly reports on Apprentice utilization and the training and employment of City Residents, and a schedule of Project work and estimated number of craft workers needed. The Committee, or

an appropriate subcommittee, may review such reports and make any recommendations for improvement, if necessary, including increasing the availability of skilled trades, and the employment of local residents or other individuals who should be assisted with appropriate training to qualify for Apprenticeship Programs.

Section 17.3 Subcommittees. The Committee may form subcommittees to consider and advise the full Committee with regard to safety and health issues affecting the Project and other similar issues affecting the overall Project, including any workers' compensation program initiated under this PLA.

ARTICLE 18

SAVINGS AND SEPARABILITY

Section 18.1 Savings Clause. It is not the intention of the City, the Project Labor Coordinator, Contractor, or the Union Parties to violate any laws governing the subject matter of this PLA. The Parties hereto agree that in the event any provision of this PLA is finally held or determined to be illegal or void as being in contravention of any applicable law or regulation, the remainder of the PLA shall remain in full force and effect unless the part or parts so found to be void are wholly inseparable from the remaining portions of this PLA. Further, the Parties agree that if and when any provision(s) of this PLA is finally held or determined to be illegal or void by a court of competent jurisdiction, the Parties will promptly enter into negotiations concerning the substantive effect of such decision for the purposes of achieving conformity with the requirements of any applicable laws and the intent of the Parties hereto. If the legality of this PLA is challenged and any form of injunctive relief is granted by any court, suspending temporarily or permanently the implementation of this PLA, then the Parties agree that all Project Work that would otherwise be covered by this PLA should be continued to be bid and constructed without application of this PLA so that there is no delay or interference with the ongoing planning, bidding, and construction of any Project Work.

Section 18.2 Effect of Injunctions or Other Court Orders. The Parties recognize the right of the City to withdraw, at its absolute discretion, the utilization of the PLA as part of any bid specification should a court of competent jurisdiction issue any order, or any applicable statute that could result, temporarily or permanently, in delay of the bidding, awarding, and/or construction on the Project.

ARTICLE 19

WAIVER

Section 19.1 Waiver. A waiver of or a failure to assert any provisions of this PLA by any or all of the Parties hereto shall not constitute a waiver of such provision for the future. Any such waiver shall not constitute a modification of the PLA or change in the terms and conditions of the PLA and shall not relieve, excuse or release any of the Parties from any of their rights, duties, or obligations hereunder.

ARTICLE 20

AMENDMENTS

Section 20.1 Amendments. The provisions of this PLA can be renegotiated, supplemented, rescinded, or otherwise altered only by mutual agreement in writing, hereafter signed by the Parties.

ARTICLE 21

DURATION OF THE PLA

Section 21.1 Duration. This Agreement shall be effective on June 16, 2020, provided that the Council has signed the Agreement. The Agreement shall continue in full force and effect until all of the work within the scope of a Covered Contract is completed and accepted by the City.

Section 21.2 Turnover and Final Acceptance of Completed Work.

(a) Construction of any phase, portion, section, or segment of Project Work shall be deemed complete when such phase, portion, section or segment has been turned over to the City by the Contractor and the City has accepted such phase, portion, section, or segment. As areas and systems of the Project are inspected and construction-tested and/or approved and accepted by the City or third parties with approval of the City, the PLA shall have no further force or effect on such items or areas, except when the Contractor is directed by the City to engage in repairs or modifications required by its Contract(s) with the City.

(b) Notice of each final acceptance received by the Contractor will be provided to the Council with the description of what portion, segment, etc. has

been accepted. Final acceptance may be subject to a “punch” list, and in such case, the PLA will continue to apply to each such item on the list until it is completed to the satisfaction of the City and Notice of Acceptance is given by the City or its representative to the Contractor.

Section 21.3 Continuation of Schedule A’s. Schedule A's incorporated as part of this PLA shall continue in full force and effect, as previously stated, until the Contractor and Union Parties to the collective bargaining agreement(s), which are the basis for such Schedule A's, notify the Project Labor Coordinator of the mutually agreed upon changes in such agreements and their effective date(s).

The Parties agree to recognize and implement all applicable changes on their effective dates, except as otherwise provided by this PLA; provided, however, that any such provisions negotiated in said collective bargaining agreements will not apply to work covered by this PLA if such provisions are less favorable to the Contractor under the PLA than those uniformly required of Contractors for construction work normally covered by those agreements; nor shall any provision be recognized or applied if it may be construed to apply exclusively or predominantly to work covered by this PLA. Any disagreement between the Parties over the incorporation into a Schedule A of any such provision agreed upon in a negotiation of the local collective bargaining agreement that is the basis for a Schedule A shall be resolved under the procedures established in Article 10.

Section 21.4 Final Termination. Final termination of all obligations, rights, and liabilities, and disagreements shall occur upon receipt by the Council of a Notice from the City saying that no work remains within the scope of the PLA.

Section 21.5 Pure Water Program Phase II Projects. The City and the Unions intend to have this Agreement or a succeeding Agreement include all construction projects in Pure Water Program Phase II. The Pure Water Program Phase II Projects are in the early development stage and cannot be specifically identified at this time to be included in the scope of this Agreement. Therefore, to reopen negotiations to include Pure Water Program Phase II Projects into this Agreement, the Council shall send written notice to the City’s Project Labor Coordinator after the City has approved Pure Water Program Phase II Projects' Environmental Impact Report and no later than ninety (90) days after the City’s final approval of the Environmental Impact Report.

ARTICLE 22

WORK AND ECONOMIC OPPORTUNITY

Section 22.1 The magnitude, duration, and complexity of the Pure Water Program Phase I Projects will require large numbers of skilled craft personnel and create significant economic opportunities for City Residents, Targeted Workers, Disadvantaged Business Enterprises and other businesses. It is therefore the understanding and intention of the Parties to use the opportunities provided by the extensive amount of work to collaborate and implement programs and procedures, which may include, for example, North America's Building Trades Unions Multi-Craft Core Curriculum (MC3) apprenticeship readiness programs, to prepare persons, especially City Residents and Targeted Workers, for entrance into Apprenticeship Programs to begin or continue their construction careers on Covered Projects. Further, the Parties agree to maximize the inclusion of Disadvantage Business Enterprises through outreach, training, and subcontracting for Covered Projects. With assistance from the Project Labor Coordinator, the City, the Contractors, the Unions and their affiliated regional and national organizations will work jointly to promptly develop and implement procedures for the identification of craft needs, the scheduling of work to facilitate the utilization of available craft workers, and the securing of services of craft workers in sufficient numbers to meet the high demands of the Project Work to be undertaken.

Section 22.2 The City, together with the Parties, supports the development of increased numbers of skilled construction workers who are City Residents and Targeted Workers to meet the labor needs of Covered Projects. Towards that end, the Parties, together with the City and its Project Labor Coordinator, agree to develop and implement a work opportunities program for City Residents and Targeted Workers to maximize construction career opportunities and create a construction career pipeline to becoming employed on Covered Projects. Further, the City together with the Parties, will create opportunities for Disadvantaged Business Enterprises consistent with the City's goals and inclusion programs for such businesses. In furtherance of the foregoing, the Council and Unions specifically agree to work with the City and the Project Labor Coordinator to:

- (a) Collaborate with existing or newly created MC3 apprenticeship readiness programs in San Diego to offer opportunities for City Residents and Targeted Workers, including students, to enroll in free short-term construction apprenticeship readiness training to prepare them to enter into Apprenticeship Programs and become employed by a Contractor on a Covered Project. The

Project Labor Coordinator, with the assistance of the Parties, will assist with the recruitment, career placement, and tracking of such City Residents and Targeted Workers who graduate from these apprenticeship readiness programs; and

(b) The Parties will cooperate and collaborate with the City and Project Labor Coordinator to conduct outreach to and include City Residents and Targeted Workers from traditionally underrepresented segments of the City's population in the construction craft workforce for each Covered Project; and

(c) The Council will provide accurate data on a quarterly basis to the City and Project Labor Coordinator pertaining to their level of economic support provided to meet these objectives. Further, the Project Labor Coordinator shall produce detailed quarterly reports for the City and Council to measure and report the outcomes of the policies, requirements, and programs established in this Agreement; and

(d) The Unions will partner with the City and Project Labor Coordinator to conduct outreach and recruitment activities by establishing or continuing to maintain existing centers, programs, and events to facilitate the entry of City Residents and Targeted Workers into the building and construction trades. These programs shall serve as a resource for preliminary orientation, assessment of construction aptitude, referral to MC3 apprenticeship readiness programs or Apprenticeship Programs, referral to hiring halls, and provide tailored orientation and mentoring for women and Targeted Workers; and

(e) The Unions shall assist City Residents and Targeted Workers with contacting the Apprenticeship Programs for the crafts and trades they are interested in. The Unions shall assist City Residents and Targeted Workers who are seeking employment on Covered Projects and provide opportunities for Union membership by assessing their work experience and giving them credit for provable past experience in their relevant craft or trade, including experience gained working for non-Union Contractors. The Unions shall put on their rolls qualified bona fide City Residents and Targeted Workers for employment on Covered Projects.

Section 22.3 Joint Subcommittee on Work and Economic Opportunity. To carry out the intent and purpose of this Article, a subcommittee of the Labor Management Committee established pursuant to Article 17 shall be established, jointly chaired by a designee of the City and a designee of the Council, to oversee the effective development and implementation of the programs and policies described herein, and to work with representatives of each apprenticeship committee and representatives of the MC3 apprenticeship readiness programs to maximize

employment opportunities for City Residents and Targeted workers who reflect the diversity of the communities surrounding each Covered Project and who may not be previously qualified for the construction career opportunities created by the Covered Projects. The subcommittee will meet as necessary at the call of the joint chairs to promptly facilitate its purposes in an expeditious manner as soon as this PLA becomes effective. In addition to the joint chairs, the membership of the committee will consist of at least three (3) representatives of the signatory local Unions and three (3) representatives of Contractors (or organization to which the Contractors belong) signatory to this PLA and experienced in overseeing and participating in Apprenticeship Programs.

ARTICLE 23

HELMETS TO HARDHATS


Section 23.1 Veterans Entry into Building and Construction Trades. The Parties recognize a desire to facilitate the entry into the building and construction trades of Veterans who are interested in careers in the building and construction industry. The Contractors and Unions agree to utilize the services of the Center for Military Recruitment, Assessment and Veterans Employment (hereinafter “Center”) and the Center’s “Helmets to Hardhats” program to serve as a resource for preliminary orientation, assessment, and construction aptitude, referral to Apprenticeship Programs or hiring halls, counseling and mentoring, support network, employment opportunities, and other needs as identified by the Parties.

Section 23.2 Integrated Database. The Unions and Contractors agree to coordinate with the Center to create and maintain an integrated database of Veterans interested in working on this Covered Project and of apprenticeship and employment opportunities for this Covered Project.

In witness whereof, the Parties have caused this Project Labor Agreement for City of San Diego Pure Water Program Phase I Projects to be executed as of the date and year above stated.

Dated: July 9, 2020

SAN DIEGO BUILDING AND CONSTRUCTION
TRADES COUNCIL

DocuSigned by:

ADB86106CE1E414...

By:

Tom Lemmon, Business Manager

SIGNATORY UNIONS AND
(See Attached)

SIGNATORY UNIONS

DocuSigned by:
Michael Patterson
38B4C81867E341A...
By: Allied Workers Local 5

By: Chad Boggio *Chad Boggio*
Bricklayer & Allied Crafts Local 4

DocuSigned by:
[Signature]
4111C0A1543D4C8...
By: Electrical Workers Local 569

DocuSigned by:
[Signature]
3380E1140A31459...
By: Glaziers, Floor Coverings & Painters Local 1399

DocuSigned by:
Valentine R. Macedo
AC5993278764412...
By: Laborers Local 89

DocuSigned by:
James Preciado
D99E409A994E10C2...
By: Plasterer Tenders Local 1414

By: [Signature]
Operating Engineers Local 12

DocuSigned by:
Mike Hartley
363A0846720A48F...
By: Plumbers & Pipefitters Local 230

DocuSigned by:
Paul Colmenero
97581004B0E0439...
By: Roofers & Waterproofers Local 45

DocuSigned by:
[Signature]
B569A3D2C62940C...
By: Laborers Local 1184

DocuSigned by:
Ed Iann
AEBFEA548C4F413...
By: Laborers Local 345

DocuSigned by:
Ricardo Perez
8C144FFD6F5F464...
By: UA Local 345

DocuSigned by:
Stephen Ariza
B66C6F62284F439...
By: Southwest Regional Council of Carpenters

DocuSigned by:
Luis Miramontes
997D1F49D5364AD...
By: Boilermakers Local 92

DocuSigned by:
Jack Alvarado
5C661A00E44B47F...
By: Cement Masons Local 500 / Area 744

By: Frank Belio, Jr. For BM Gazzaniga
Elevator Constructors Local 18

DocuSigned by:
David Osborne
0679DF11AEC94C3...
By: Iron Workers Local 229

DocuSigned by:
Tom Castleman
D99E7C175E1E4A7...
By: Plasterers Local 200

By: Ronald A. [Signature]
Operating Engineers Local 12

By: [Signature]
Operating Engineers Local 12

DocuSigned by:
Todd Barry
B9584FD2117949F...
By: Road Sprinkler Fitters Local 669

DocuSigned by:
Dave Gauthier
D3C0E4114ADC482...
By: Sheet Metal Workers Local 206

DocuSigned by:
Douglas R Tracy
E809E170950C47E...
By: Sheet Metal Workers Local 206

DocuSigned by:
Jose Estrada
530AF0ECACB1492...
By: Teamsters Local 166

DocuSigned by:
[Signature]
3380E1140A31459...
By: Tradeshaw & Sign Craft Local 831

DocuSigned by:
[Signature]
B66C6F62284F439...
By: Laborers Local 300

ATTACHMENT A – LETTER OF ASSENT

To be signed by all Contractors awarded work covered by the Project Labor Agreement prior to commencing work.

[CONTRACTOR’S LETTERHEAD]

DATE

Project Labor Coordinator

Address

Address

Address

Attention: _____

**Re: City of San Diego Project Labor Agreement for
Pure Water Program Phase I Project**

Dear Sir:

This is to confirm [Name of Company] agrees to be party to and bound by the City of San Diego Project Labor Agreement for Construction of Pure Water Program Phase I Projects, effective May 1, 2020, as such Agreement may from time to time be amended by the negotiating Parties or interpreted pursuant to its terms. Such obligation to be a Party and bound by this Agreement shall extend to all work covered by the Agreement undertaken by this Company on the Project pursuant to [City Contract No. _____ and Name of Covered Project], and this Company shall require all of its subcontractors of whatever tier to be similarly bound for all work within the scope of the Agreement by signing and furnishing to you an identical Letter of Assent prior to their commencement of work.

Sincerely,

[Name of Construction Company]

By:

[Name and Title of Authorized Executive]

[Copies of this Letter must be submitted to the Project Labor Coordinator and to the Council consistent with Article 3, Section 3.3(b)]

ATTACHMENT B-1 – WORKFORCE DISPATCH REQUEST FORM

The City of San Diego’s Project Labor Agreement for Pure Water Program Phase I Projects establishes a goal of at least thirty-five percent (35%) of the total craft hours on each Covered Project be performed by City Residents. The Unions and Contractors agree that, to the extent allowed by law, and as long as they possess the requisite skills and qualifications, City Residents shall be first referred for Project Work. A “City Resident” is defined as a City of San Diego permanent resident at the time of initial employment on a Covered Project or a Veteran residing anywhere.

*The list of qualifying zip codes for City Residents includes: 92014, 92037, 92038, 92067, 92093, 92101, 92102, 92103, 92104, 92105, 92106, 92107, 92108, 92109, 92110, 92111, 92113, 92114, 92115, 92116, 92117, 92119, 92120, 92121, 92122, 92123, 92124, 92126, 92127, 92128, 92129, 92130, 92131, 92132, 92134, 92137, 92138, 92139, 92145, 92154, 92166, 92167, 92169, 92171, 92173, 92177.

C O N T R A C T O R U S E O N L Y

Please complete and fax or email this form to the applicable union to request craft workers that fulfill the hiring requirements for this project. After faxing your request, please call the Local to verify receipt and substantiate their capacity to furnish workers as specified below. Please print your Fax or Email Transmission Verification Reports and keep copies for your records.

TO:	Local Union and #	
	Email	
	Fax	

CC:	City of San Diego Project Labor Coordinator	
	Email	
	Fax	

FROM:	Contractor	
	Issued by	
	Email	
	Phone	
	Fax	

UNION CRAFT WORKER REQUEST:

Craft Classification	Journey person or Apprentice	City Resident and/or Veteran	# of Workers
	<input type="checkbox"/> JM <input type="checkbox"/> APP	YES*	
	<input type="checkbox"/> JM <input type="checkbox"/> APP	YES*	
	<input type="checkbox"/> JM <input type="checkbox"/> APP	YES*	
	<input type="checkbox"/> JM <input type="checkbox"/> APP	YES*	

WORKER REPORTING INSTRUCTIONS:

Reporting Date:	
Reporting Time:	
Project Name:	
Project Location:	
Reporting To:	
On Site Phone:	
Special Instructions:	

U N I O N U S E O N L Y

Please complete the “Union Use Only” section and fax or email both pages to the requesting Contractor and Project Labor Coordinator.

Date Dispatch Received:	
Dispatch Received by:	

Date Worker(s) Dispatched:			
Name	Veteran (Y/N)	Zip Code	JM or App
			<input checked="" type="checkbox"/> JM <input type="checkbox"/> APP
			<input type="checkbox"/> JM <input type="checkbox"/> APP
			<input type="checkbox"/> JM <input checked="" type="checkbox"/> APP
			<input type="checkbox"/> JM <input type="checkbox"/> APP

ATTACHMENT B-2 – CONTRACTOR CORE WORKFORCE FORM

C O N T R A C T O R I N F O R M A T I O N			
Project Name:			
Contractor/Firm Name:			
Prime Tier:			
Submitted by:			
Email:		Phone:	

In accordance with the Project Labor Agreement, Article 4, Section 4.6 (f), a Core Employee must be either a journeyman or Apprentice and appear on the Contractor’s active payroll for at least ninety (90) of the last one-hundred-eighty (180) working days prior to being designated as a Core Employee; and must possess any license required by state or federal law for the Project Work to be performed; and must have the ability to safely perform the basic functions of the applicable.

Prior to each Contractor performing any work on a Covered Project, each Contractor shall provide a list of Core Employees to the Project Labor Coordinator and the Council. After submitting the Core Employee list prior to commencing work, Contractors shall not make any changes or substitutions to the Core Employee list for the duration of the Covered Project. Failure to submit the Core Employee list prior to work commencing will prohibit the Contractor from using any Core Employees for 30 calendar days after the list is provided to the Project Labor Coordinator and Council.

Please check all that apply:

Our firm will not be self-performing any work on this project.
We will be subcontracting our work to: _____

PLA Section 4.6 regarding Core Employees is not applicable to Contractors that are signatory to one or more Schedule As, which are the Master Labor Agreements of the Unions. If your company is signatory, please list the union and local number below. For crafts that you are not signatory, please complete the core employee list below.

Indicate Signatory Union Trade: _____ Local # _____
 Indicate Signatory Union Trade: _____ Local # _____
 Indicate Signatory Union Trade: _____ Local # _____

We are not a union signatory contractor and will be using core employees on this project as indicated below:

Craft/Trade	Employee Name	MC3 Apprentice Y/N?	Last 4 SSN	Hire Date	Date Last Employed

ATTACHMENT C – DRUG AND ALCOHOL TESTING POLICY

The Parties recognize the problems that drug and alcohol abuse have created in the construction industry and the need to develop drug and alcohol abuse prevention programs. Accordingly, the Parties agree that in order to enhance the safety of the workplace and to maintain a drug and alcohol-free work environment, individual Contractors shall require applicants or employees to undergo drug and alcohol testing in accordance with this PLA and this policy, Attachment C – Drug and Alcohol Testing Policy, hereafter “Policy.”

1. It is understood that the use, possession, transfer, or sale of illegal drugs, narcotics, or other unlawful substances, as well as being under the influence of alcohol and the possession of or consuming alcohol is absolutely prohibited while employees are on the Contractor’s job premises or while working on any jobsite in connection with work performed under the PLA.
2. No Contractor may implement a drug and alcohol testing program that does not conform in all respects to the provisions of this Policy.
3. No Contractor may implement drug and alcohol testing at any jobsite unless written notice is given to the Union setting forth the location of the jobsite, a description of the project under construction, and the name and telephone number of the Prime Contractor's project manager. Said notice shall be provided at the pre-job conferences for each Covered Project. Failure to give such notice shall make any drug and alcohol testing engaged in by the Contractor a violation of the Agreement and subject to the Article 10 grievance procedure.
4. A Contractor who elects to implement drug and alcohol testing pursuant to this Policy shall require all craft employees on the Covered Project to be tested. With respect to individuals who become employed on the Covered Project subsequent to the proper implementation of a valid drug and alcohol testing program, such test shall be administered upon the commencement of employment on the project, whether by referral from a Union Dispatch Office, transfer from another project, or another method. Individuals who were employed on the project prior to proper implementation of a valid drug and alcohol testing program may only be subjected to testing for the reasons set forth in paragraphs 5(g)(1) through 5(g)(3) and paragraphs 6(a) through 6(e) of this Policy. Refusal to undergo such testing shall be considered sufficient grounds to deny employment on the project.
5. The following procedure shall apply to all drug and alcohol testing:
 - a. The Contractor may request urine samples only. The applicant or employee shall not be observed when the urine specimen is given. An applicant or employee, at his or her sole option, shall, upon request, receive a blood test in lieu of a urine test. No employee of the Contractor shall draw blood from a bargaining unit employee, touch

- or handle urine specimens, or in any way become involved in the chain of custody of urine or blood specimens. A Union Business Representative, subject to the approval of the individual applicant or employee, shall be permitted to accompany the applicant or employee to the collection facility to observe the collection, bottling, and sealing of the specimen.
- b. A Contractor may request an applicant or employee promptly, within four (4) hours of the Contractor's request, perform an alcohol breathalyzer test at a certified laboratory only, and cutoff levels shall be those mandated by applicable state or federal law.
 - c. The testing shall be done by a laboratory approved by the Substance Abuse & Mental Health Services Administration (SAMHSA), which is chosen by the Contractor and the Union.
 - d. An initial test shall be performed using the Enzyme Multiplied Immunoassay Technique (EMIT). In the event a question or positive result arises from the initial test, a confirmation test must be utilized before action can be taken against the applicant or employee. The confirmation test will be by Gas Chromatography/Mass Spectrometry (GC/MS). Cutoff levels for both the initial test and confirmation test will be those established by SAMHSA and this Policy. Should these SAMHSA levels be changed during the course of the PLA or new testing procedures are approved, then these new regulations will be deemed as part of this existing PLA. Confirmed positive samples will be retained by the testing laboratory in secured long-term frozen storage for a minimum of one (1) year. Handling and transportation of each sample must be documented through strict chain-of-custody procedures.
 - e. In the event of a confirmed positive test result, the applicant or employee may request, within forty-eight (48) hours, a sample of his/her specimen from the testing laboratory for purposes of a second test to be performed at a second laboratory, designated by the Union and approved by SAMHSA. The retest must be performed within ten (10) days of the request. Chain of custody for this sample shall be maintained by the Contractor between the original testing laboratory and the Union's designated laboratory. Retesting shall be performed at the applicant's or employee's expense. In the event of conflicting test results, the Contractor may require a third test, at the Contractor's expense.
 - f. If, as a result of the above testing procedure, it is determined that an applicant or employee has tested positive, this shall be considered sufficient grounds to deny the applicant or employee his/her employment on the project.
 - g. No individual who tests negative for drugs and alcohol pursuant to the above procedure and becomes employed on the project shall again be subjected to drug and alcohol testing with the following exceptions:
 - 1) Employees who are involved in industrial accidents resulting in damage to plant, property, or equipment or injury to him/her or others may be tested for drugs or alcohol pursuant to the procedures stated hereinabove.

- 2) The Contractor may test employees following thirty (30) days' advance written notice to the employee(s) to be tested and to the applicable Union. Notice to the applicable Union shall be sent by certified mail to the affected Union with a copy to the Project Labor Coordinator. Such testing shall be pursuant to the procedures stated hereinabove.
 - 3) The Contractor may test an employee where the Contractor has reasonable cause to believe that the employee is impaired from performing his/her job. Reasonable cause shall be defined as being aberrant or unusual behavior, the type of which is a recognized and accepted symptom of impairment (e.g., slurred speech, unusual lack of muscular coordination). Such behavior must be actually observed by at least two (2) persons, one (1) of whom shall be a supervisor who has been trained to recognize the symptoms of drug and alcohol abuse or impairment and the other of whom shall be the Job Steward. If the Job Steward is unavailable or there is no Job Steward on the Covered Project, the other person shall be a member of the applicable Union's bargaining unit. Testing shall be pursuant to the procedures stated hereinabove. Employees who are tested pursuant to the exceptions set forth in this paragraph and who test positive will be removed from the Contractor's payroll.
 - h. Applicants or employees who do not test positive shall be paid for all time lost while undergoing drug and alcohol testing. Payment shall be at the applicable wage and benefit rates set forth in the applicable Union's Master Labor Agreement. Applicants who have been dispatched from the Union and who are not put to work pending the results of a test will be paid waiting time until such time as they are put to work. It is understood that an applicant must pass the test as a condition of employment. Applicants who are put to work pending the results of a test will be considered probationary employees.
6. The Contractors will be allowed to conduct periodic jobsite drug and alcohol testing on the Project under the following conditions:
- a. The entire jobsite must be tested, including any employee or subcontractor's employee who worked on that project three (3) working days before or after the date of the test;
 - b. Jobsite testing cannot commence sooner than fifteen (15) days after start of the work on the project;
 - c. Prior to start of periodic testing, a Business Representative will be allowed to conduct an educational period on company time to explain periodic jobsite testing program to affected employees;
 - d. Testing shall be conducted by an SAMHSA-certified laboratory, pursuant to the provisions set forth in paragraph 5 hereinabove.
 - e. Only two (2) periodic tests may be performed in a twelve (12)-month period.

7. It is understood that the unsafe use of prescribed medication, or where the use of prescribed medication impairs the employee's ability to perform work, is a basis for the Contractor to remove the employee from the jobsite.
8. Any grievance or dispute that may arise out of the application of this Policy shall be subject to the grievance and arbitration procedures set forth in the PLA.
9. The establishment or operation of this Policy shall not curtail any right of any employee found in any law, rule, or regulation. Should any part of this Policy be found unlawful by a court of competent jurisdiction or a public agency having jurisdiction over the Parties, the remaining portions of the Agreement shall be unaffected, and the Parties shall enter negotiations to replace the affected provision.
10. Present employees, if tested positive, shall have the prerogative for rehabilitation program at the employee's expense. When such program has been successfully completed, the Contractor shall not discriminate in any way against the employee. If work for which the employee is qualified exists, he/she may be reinstated.
11. The Contractor agrees that results of urine and blood tests performed hereunder will be considered medical records held confidential to the extent permitted or required by law. Such records shall not be released to any persons or entities other than designated Contractor representatives and the applicable Union. Such release to the applicable Union shall only be allowed upon the signing of a written release by the employee, and the information contained therein shall not be used to discourage the employment of the individual applicant or employee on any subsequent occasion.
12. Employees who seek voluntary assistance for substance abuse may not be disciplined for seeking such assistance. Requests from employees for such assistance shall remain confidential and shall not be revealed to other employees or management personnel without the employee's consent. Employees enrolled in substance abuse programs will be subject to all Contractor rules, regulations, and job performance standards with the understanding that an employee enrolled in such a program is receiving treatment for an illness.
13. The Contractor shall indemnify and hold the Union harmless against any and all claims, demands, suits, or liabilities that may arise out of the application of this Policy.
14. This Policy shall constitute the only Policy in effect between the Parties concerning drug and alcohol abuse, prevention, and testing. Any modifications thereto must be accomplished pursuant to collective bargaining negotiations between the Parties.

SPECIMEN REPORTING CRITERIA

Initial Test Analyte	Initial Test Cutoff ¹	Confirmatory Test Analyte	Confirmatory Test Cutoff Concentration
Marijuana metabolites (THCA) ²	50 ng/ml ³	THCA	15 ng/ml
Cocaine metabolite (Benzoylecgonine)	150 ng/ml ³	Benzoylecgonine	100 ng/ml
Codeine/ Morphine	2000 ng/ml	Codeine Morphine	2000 ng/ml 2000 ng/ml
Hydrocodone/ Hydromorphone	300 ng/ml	Hydrocodone Hydromorphone	100 ng/ml 100 ng/ml
Alcohol	0.02%	Ethanol	0.02%
Oxycodone/ Oxymorphone	100 ng/ml	Oxycodone Oxymorphone	100 ng/ml 100 ng/ml
6-Acetylmorphine	10 ng/ml	6-Acetylmorphine	10 ng/ml
Phencyclidine	25 ng/ml	Phencyclidine	25 ng/ml
Amphetamine/ Methamphetamine	500 ng/ml	Amphetamine Methamphetamine	250 ng/ml 250 ng/ml
MDMA ⁴ /MDA ⁵	500 ng/ml	MDMA MDA	250 ng/ml 250 ng/ml
Initial Test Analyte	Initial Test Cutoff	Confirmatory Test Analyte	Confirmatory Test Cutoff Concentration
Barbiturates	300 ng/ml	Barbiturates	200 ng/ml
Benzodiazepines	300 ng/ml	Benzodiazepines	300 ng/ml
Methadone ⁶	300 ng/ml	Methadone	100 ng/ml
Methaqualone	300 ng/ml	Methaqualone	300 ng/ml
Propoxyphene	300 ng/ml	Propoxyphene	100 ng/ml

¹ For grouped analytes (i.e., two or more analytes that are in the same drug class and have the same initial test cutoff):

Immunoassay: The test must be calibrated with one analyte from the group identified as the target analyte. The cross-reactivity of the immunoassay to the other analyte(s) within the group must be 80 percent or greater; if not, separate immunoassays must be used for the analytes within the group.

Alternate technology: Either one analyte or all analytes from the group must be used for calibration, depending on the technology. At least one analyte within the group must have a concentration equal to or greater than the initial test cutoff or, alternatively, the sum of the analytes present (i.e., equal to or greater than the laboratory's validated limit of quantification) must be equal to or greater than the initial test cutoff.

² An immunoassay must be calibrated with the target analyte, 9-tetrahydrocannabinol-9- carboxylic acid (THCA).

³ **Alternate technology (THCA and benzoylecgonine):** The confirmatory test cutoff must be used for an alternate technology initial test that is specific for the target analyte (i.e., 15 ng/ml for THCA, 100 ng/ml for benzoylecgonine).

⁴ Methylenedioxyamphetamine (MDMA)

⁵ Methylenedioxymphetamine (MDA)

⁶ Employees with a prescription for methadone who are using the medication as prescribed, and are not impaired and can safely perform their work, will not be considered to have violated this Policy.

**MEMORANDUM OF UNDERSTANDING REGARDING
“QUICK” DRUG SCREENING TESTS PURSUANT TO
ATTACHMENT C – DRUG AND ALCOHOL TESTING POLICY**

It is hereby agreed between the Parties hereto that a Contractor who has otherwise properly implemented drug and alcohol testing, as set forth in the Policy, shall have the right to offer an applicant or employee a "quick" drug screening test. This “quick” screen test shall consist either of the “ICUP” urine screen or similar test or an oral screen test. The applicant or employee shall have the absolute right to select either of the two “quick” screen tests, or to reject both and request a full drug test.

An applicant or employee who selects one of the "quick" screen tests, and who passes the test, shall be put to work immediately. An applicant or employee who fails the "quick" screen test, or who rejects the "quick" screen tests, shall be tested pursuant to the procedures set forth in the Policy. The sample used for the "quick" screen test shall be discarded immediately upon conclusion of the test. An applicant or employee shall not be deprived of any rights granted to them by the Policy as a result of any occurrence related to the “quick” screen test.



Kiewit

May 27, 2021

ATTACHMENT A – LETTER OF ASSENT

Project Labor Coordinator
525 B Street
San Diego, CA 92101

Attention: Lea Fields-Bernard

**Re: City of San Diego Project Labor Agreement for
Pure Water Program Phase I Project**

Dear Ms. Fields-Bernard:

This is to confirm **Kiewit Infrastructure West Co.** agrees to be party to and bound by the City of San Diego Project Labor Agreement for Construction of Pure Water Program Phase I Projects, effective May 1, 2020, as such Agreement may from time to time be amended by the negotiating Parties or interpreted pursuant to its terms. Such obligation to be a Party and bound by this Agreement shall extend to all work covered by the Agreement undertaken by this Company on the Project pursuant to **Contract No. 1861, North City Water Reclamation Plant Expansion**, and this Company shall require all of its subcontractors of whatever tier to be similarly bound for all work within the scope of the Agreement by signing and furnishing to you an identical Letter of Assent prior to their commencement of work.

Sincerely,

Kiewit Infrastructure West Co.

Terrence L. Robinson
Senior Vice President

PHASED FUNDING SCHEDULE AGREEMENT

The particulars left blank below, such as the total number of phases and the amounts assigned to each phase, will be completed with funding specific information from the Pre-Award Schedule and Construction Cost Loaded Schedule submitted to and approved by the City.

BID NUMBER: K-21-1861-DBB-3

CONTRACT OR TASK TITLE: North City Water Reclamation Plant Expansion and NCPWF Influent Pump Station and Pipeline

CONTRACTOR: Kiewit Infrastructure West Co.

Funding Phase	Phase Description	Phase Start	Phase Finish	Not-to-Exceed Amount
1 (B-21060)	Bond, Mobilization, Procurement, Site Work, Permits, Submittals	NTP	8/31/2021	\$4,254,135
1 (B-16140)	Bond, Mobilization, Procurement, Site Work, Permits, Submittals	NTP	8/31/2021	\$720,000
1 (B-21128)	Bond, Mobilization, Procurement, Site Work, Permits, Submittals	NTP	8/31/2021	\$234,000
1 (S-17012, Sewer)	Bond, Mobilization, Procurement, Site Work, Permits, Submittals	NTP	8/31/2021	\$924,513
1 (S-17012, Water)	Bond, Mobilization, Procurement, Site Work, Permits, Submittals	NTP	8/31/2021	\$32,724

2 (B-21060)	Procurement; Sheeting, Shoring, Bracing; Yard Piping; Site Work; Facilities 01, 05, 10, 11, 15, 23, 45, 55; Electrical	9/1/2021	1/31/2022	\$22,226,667
2 (B-16140)	Procurement; Sheeting, Shoring, Bracing; Facility 36	9/1/2021	1/31/2022	\$4,020,135
2 (B-21128)	Procurement; Sheeting, Shoring, Bracing; Yard Piping; Site Work; Facility 25	9/1/2021	1/31/2022	\$4,399,893
2 (S-17012, Sewer)	Procurement; Facilities 01, 05, 10, 11, 36, 45; Process Aeration Blowers; Electrical	9/1/2021	1/31/2022	\$5,038,991
2 (S-17012, Water)	Procurement; Electrical	9/1/2021	1/31/2022	\$283,924
3 (B-21060)	Procurement; Sheeting, Shoring, Bracing; Yard Piping; Site Work; Facilities 01, 05, 10, 11, 15, 23, 45, 55; Electrical; Controls and System Integration	2/1/2022	8/31/2022	\$50,086,206
3 (B-16140)	Procurement; Sheeting, Shoring, Bracing; Facility 36; Controls and System Integration	2/1/2022	8/31/2022	\$5,708,951
3 (B-21128)	Procurement; Sheeting, Shoring, Bracing; Yard Piping; Site Work; Facilities 25, 30, 34, 58; Controls and System Integration	2/1/2022	8/31/2022	\$11,814,539

3 (S-17012, Sewer)	Procurement; Facilities 01, 05, 10, 11, 45; Process Aeration Blowers; Electrical	2/1/2022	8/31/2022	\$10,530,572
3 (S-17012, Water)	Procurement; Facilities 30, 34; Electrical	2/1/2022	8/31/2022	\$1,954,741
4 (B-21060)	Procurement; Sheeting, Shoring, Bracing; Site Work; Yard Piping; Facilities 05, 10, 11, 15, 16, 23; Electrical; Controls and System Integration; Landscaping	9/1/2022	8/31/2023	\$78,744,648
4 (B-16140)	Procurement; Facility 36; Sheeting, Shoring, Bracing; Site Work; Yard Piping; Electrical; Controls and System Integration; Bioretention Basins;	9/1/2022	8/31/2023	\$18,740,971
4 (B-21128)	Procurement; Sheeting, Shoring, Bracing; Site Work; Yard Piping; Facilities 34, 58; Controls and System Integration; Landscaping	9/1/2022	8/31/2023	\$1,280,873
4 (S-17012, Sewer)	Procurement; Facilities 05, 10, 11, 23; Process Aeration Blowers; Electrical	9/1/2022	8/31/2023	\$6,143,696
4 (S-17012, Water)	Procurement; Facilities 34; Electrical	9/1/2022	8/31/2023	\$236,082
5 (B-21060)	Procurement; Sheeting, Shoring, Bracing; Site Work; Yard Piping; Facility 16; Electrical; Bioretention Basins; Controls and System Integration; Integration Period Services; Landscaping	9/1/2023	Final Acceptance and Project Completion	\$23,408,278


5 (B-16140)	Procurement; Sheeting, Shoring, Bracing; Controls and System Integration; Facility 36; Integration Period Services	9/1/2023	Final Acceptance and Project Completion	\$1,321,369
5 (B-21128)	Procurement; Sheeting, Shoring, Bracing; Site Work; Yard Piping; Controls and System Integration; Integration Period Services; Landscaping	9/1/2023	Final Acceptance and Project Completion	\$785,581
5 (S-17012, Sewer)	Electrical	9/1/2023	Final Acceptance and Project Completion	\$2,082,277
5 (S-17012, Water)	Electrical	9/1/2023	Final Acceptance and Project Completion	\$164,234
Contract Total				\$255,138,000

Notes:

- 1) WHITEBOOK section 7-3.10, "Phased Funding Compensation" applies.
- 2) The total of all funding phases shall be equal to the TOTAL BID PRICE as shown on BID SCHEDULE 1 - PRICES.
- 3) This PHASED FUNDING SCHEDULE AGREEMENT will be incorporated into the CONTRACT and shall only be revised by written modifications to the CONTRACT.

CITY OF SAN DIEGO

PRINT NAME: Michael Marks
Construction Senior Engineer

Signature: 

Date: 6/11/2021

PRINT NAME: Reyhaneh Martin
Design Senior Engineer

Signature: Reyhaneh Martin

Date: 6-11-2021

CONTRACTOR

PRINT NAME: Chris Lanterman

Title: KIEWIT PROJECT MANAGER

Signature: Chris Lanterman

Date: 6-11-2021

City of San Diego

CITY CONTACT: Stephen Samara, Principal Contract Specialist, Email: SSamara@sandiego.gov
Phone No. (619) 533-3619

ADDENDUM A



FOR

NORTH CITY WATER RECLAMATION PLANT EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE

BID NO.: K-21-1861-DBB-3
SAP NO. (WBS/IO/CC): B-21060, B-16140, S-17012
CLIENT DEPARTMENT: 2012
COUNCIL DISTRICT: 1
PROJECT TYPE: BO

BID DUE DATE:

**2:00 PM
MARCH 3, 2021**

CITY OF SAN DIEGO'S ELECTRONIC BIDDING SITE, PLANETBIDS

<http://www.sandiego.gov/cip/bidopps/index.shtml>

ENGINEER OF WORK

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineers:

Mark Elliott _____
1) Registered Engineer

1/19/2021 _____
Date



DIGITALLY SIGNED: 1/19/2021

Andrea Demich _____
2) For City Engineer

1/21/21 _____
Date

Seal:



A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN **EXTENDED AS STATED ON THE COVER PAGE.**

B. NOTICE INVITING BIDS

1. To the CONTRACT DOCUMENTS, page 12, **ADD** the following:

- 18. PRE-BID SITE VISIT:** Due to the current Covid-19 restrictions, the City of San Diego is unable to offer a formal site tour of the North City Water Reclamation plant. However, the City has prepared site videos to give potential bidders a better understanding of the current site conditions and highlight the key areas that will require work within the plant. Please use the following links below to access videos, a site map, and the corresponding narrative.

Video Link: <https://f.io/-f54J94V>

Narrative and Site Map:

https://drive.google.com/drive/folders/1JRpXLYbjQWuNXymvYh1WwVyaHFq_22LJ?usp=sharing

C. CLARIFICATIONS

1. All references to WBS number B-15142 within the bidding documents shall be replaced by B-21060.

D. ATTACHMENTS

1. To ATTACHMENT D, FUNDING AGENCY PROVISIONS, ITEM 10, DAVIS-BACON WAGE RATES AND PROVISIONS, Sub-item 10.1. WAGE RATES, pages 59 through 89, **DELETE** in their entirety and **SUBSTITUTE** with pages 8 through 35 of this Addendum.
2. To ATTACHMENT G, CONTRACT AGREEMENT, page 6040, **DELETE** in its entirety and **SUBSTITUTE** with page 36 of this Addendum.

E. CERTIFICATION AND FORMS

1. To AFFIDAVIT OF DISPOSAL, page 6120, **DELETE** in its entirety and **SUBSTITUTE** with page 37 of this Addendum.

F. PLANS

NCWRP EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION

1. To DRAWING SHEET NUMBERS:
40381-2005B-D, No. PK2-G-005B
40381-2006-D, No. PK2-G-006
40381-2015-D, No. PK2-G-015
40381-2045-D, No. PK2-G-103
40381-2058-D, No. PK2-CX-101
40381-2059-D, No. PK2-CX-102
40381-2061-D, No. PK2-CX-106
40381-2062-D, No. PK2-CX-107
40381-2065-D, No. PK2-CX-112
40381-2074-D, No. PK2-CG-105
40381-2075-D, No. PK2-CG-106
40381-2077-D, No. PK2-CG-108
40381-2084-D, No. PK2-CG-117
40381-2091-D, No. PK2-CG-507
40381-2094-D, No. PK2-CG-510
40381-2096-D, No. PK2-CG-512
40381-2097-D, No. PK2-CG-513
40381-2100-D, No. PK2-CG-516
40381-2106-D, No. PK2-SW-104
40381-2108-D, No. PK2-SW-106
DELETE in their entirety and **REPLACE** with pages 38 of 57 of this Addendum.
2. To DRAWING SET, **ADD** DRAWING SHEET NUMBER 40381-2114-D, No. PK2-SW-113 with page 58 of this Addendum.

3. To DRAWING SHEET NUMBERS:
- 40381-20112-D, No. PK2-L-101
 - 40381-20113-D, No. PK2-L-102
 - 40381-20114-D, No. PK2-L-105
 - 40381-20115-D, No. PK2-L-106
 - 40381-20116-D, No. PK2-L-107
 - 40381-20117-D, No. PK2-L-108
 - 40381-20118-D, No. PK2-L-110
 - 40381-20119-D, No. PK2-L-111
 - 40381-2120-D, No. PK2-L-112
 - 40381-20121-D, No. PK2-L-113
 - 40381-20122-D, No. PK2-L-114
 - 40381-20123-D, No. PK2-L-115
 - 40381-20124-D, No. PK2-L-116
 - 40381-20125-D, No. PK2-L-117
 - 40381-20130-D, No. PK2-L-200
 - 40381-20131-D, No. PK2-L-201
 - 40381-20132-D, No. PK2-L-202
 - 40381-20133-D, No. PK2-L-205
 - 40381-20134-D, No. PK2-L-206
 - 40381-20135-D, No. PK2-L-207
 - 40381-20136-D, No. PK2-L-208
 - 40381-20137-D, No. PK2-L-210
 - 40381-20138-D, No. PK2-L-211
 - 40381-20139-D, No. PK2-L-212
 - 40381-20140-D, No. PK2-L-213
 - 40381-20141-D, No. PK2-L-214
 - 40381-20142-D, No. PK2-L-215
 - 40381-20143-D, No. PK2-L-216
 - 40381-20144-D, No. PK2-L-217
 - 40381-20145-D, No. PK2-L-501
 - 40381-20146-D, No. PK2-L-502
 - 40381-20147-D, No. PK2-L-503
 - 40381-20148-D, No. PK2-L-601
 - 40381-20149-D, No. PK2-L-602
 - 40381-20153-D, No. PK2-L-606
 - 40381-2155-D, No. PK2-Y-100
 - 40381-2156-D, No. PK2-Y-101
 - 40381-2157-D, No. PK2-Y-102

40381-2161-D, No. PK2-Y-112
40381-2164-D, No. PK2-Y-116
40381-2165-D, No. PK2-Y-117
40381-2166-D, No. PK2-Y-120,
40381-2168-D, No. PK2-Y-122
40381-2171-D, No. PK2-Y-135
40381-2173-D, No. PK2-Y-137
40381-2175-D, No. PK2-Y-139
40381-2176-D, No. PK2-Y-140
40381-2177-D, No. PK2-Y-141
40381-2178-D, No. PK2-Y-142
40381-2179-D, No. PK2-Y-150
40381-2180-D, No. PK2-Y-301
40381-2182-D, No. PK2-Y-303
40381-2184-D, No. PK2-Y-305
40381-2185-D, No. PK2-Y-306
40381-2186-D, No. PK2-Y-307
40381-2187-D, No. PK2-Y-308
40381-2188-D, No. PK2-Y-351
40381-2189-D, No. PK2-Y-352
40381-2190-D, No. PK2-Y-353
40381-2193-D, No. PK2-Y-501
40381-2195-D, No. PK2-Y-503
40381-2211-D, No. PK2-ES-100
40381-2212-D, No. PK2-ES-101
40381-2215-D, No. PK2-ES-106
40381-2216-D, No. PK2-ES-107
40381-2218-D, No. PK2-ES-111
40381-2695-D, No. PK2-23-S-001
40381-2702-D, No. PK2-23-S-301
40381-2705-D, No. PK2-23-S-304
40381-2794-D, No. PK2-34-DX-112
40381-2795-D, No. PK2-34-DX-301
40381-2796-D, No. PK2-34-D-111
40381-2798-D, No. PK2-34-D-301

DELETE in their entirety and **REPLACE** with pages 59 through 131 of this Addendum.

4. To DRAWING SET, **ADD** DRAWING SHEET NUMBER 40381-2806-D, No. PK2-50-D-100 with page 132 of this Addendum.
5. To DRAWING SHEET NUMBERS:
40381-2927-D, No. PK2-70-E-634
40381-21048-D, No. PK2-N01-N-160B
40381-21133-D, No. PK2-SD-046
DELETE in their entirety and **REPLACE** with pages 133 through 135 of this Addendum.

James Nagelvoort, Director
Engineering & Capital Projects Department

Dated: *January 22, 2021*
San Diego, California

JN/RWB/mlw

10. DAVIS-BACON WAGE RATES AND PROVISIONS:

10.1. WAGE RATES: This contract shall be subject to the following Davis-Bacon Wage Decisions:

"General Decision Number: CA20210001 01/01/2021

Superseded General Decision Number: CA20200001

State: California

Construction Types: Building, Heavy (Heavy and Dredging),
Highway and Residential

County: San Diego County in California.

BUILDING CONSTRUCTION PROJECTS; DREDGING PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); HIGHWAY CONSTRUCTION PROJECTS; RESIDENTIAL CONSTRUCTION PROJECTS (consisting of single family homes and apartments up to and including 4 stories)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/01/2021

ASBE0005-002 07/06/2020

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems).....	\$ 45.39	23.74
Fire Stop Technician (Application of Firestopping Materials for wall openings and penetrations in walls, floors, ceilings and curtain walls).....	\$ 28.92	18.73

ASBE0005-004 07/01/2019

	Rates	Fringes
Asbestos Removal worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)....	\$ 20.63	12.17

BOIL0092-003 03/01/2018

	Rates	Fringes
BOILERMAKER.....	\$ 44.07	33.52

* BRCA0004-008 11/01/2019

	Rates	Fringes
BRICKLAYER; MARBLE SETTER.....	\$ 39.60	18.05

BRCA0018-004 06/01/2019

	Rates	Fringes
MARBLE FINISHER.....	\$ 33.43	14.11
TILE FINISHER.....	\$ 28.23	12.65
TILE LAYER.....	\$ 40.07	18.36

BRCA0018-010 09/01/2020

	Rates	Fringes
TERRAZZO FINISHER.....	\$ 33.66	14.20
TERRAZZO WORKER/SETTER.....	\$ 41.60	14.73

CARP0409-002 07/01/2016

	Rates	Fringes
Diver		
(1) Wet.....	\$ 712.48	17.03
(2) Standby.....	\$ 356.24	17.03
(3) Tender.....	\$ 348.24	17.03
(4) Assistant Tender.....	\$ 324.24	17.03

Amounts in "'Rates' column are per day

CARP0409-008 08/01/2010

	Rates	Fringes
Modular Furniture Installer.....	\$ 17.00	7.41

CARP0547-001 07/01/2018

	Rates	Fringes
CARPENTER		
(1) Bridge.....	\$ 42.34	19.17
(2) Commercial Building....	\$ 37.11	19.17
(3) Heavy & Highway.....	\$ 42.21	19.17
(4) Residential Carpenter..	\$ 29.69	19.17
(5) Residential Insulation Installer.....	\$ 18.00	8.16
MILLWRIGHT.....	\$ 42.71	19.17
PILEDRIVERMAN.....	\$ 42.34	19.17

CARP0547-002 07/01/2017

	Rates	Fringes
Drywall		
(1) Work on wood framed construction of single family residences, apartments or condominiums under four stories Drywall Installer/Lather...\$ 22.95		18.85
Drywall Stocker/Scrapper...\$ 12.50		12.27
(2) All other work Drywall Installer/Lather...\$ 32.00		17.63
Drywall Stocker/Scrapper...\$ 12.50		12.27

ELEC0569-001 06/01/2020

	Rates	Fringes
Electricians (Tunnel Work)		
Cable Splicer.....	\$ 51.38	3%+14.88
Electrician.....	\$ 50.63	3%+14.88
Electricians: (All Other Work, Including 4 Stories Residential)		
Cable Splicer.....	\$ 45.75	3%+14.88
Electrician.....	\$ 45.00	3%+14.88

ELEC0569-004 06/01/2020

	Rates	Fringes
ELECTRICIAN (Sound & Communications Sound Technician).....	\$ 33.95	13.55
SCOPE OF WORK Assembly, installation, operation, service and maintenance of components or systems as used in closed circuit television, amplified master television distribution, CATV on private property, intercommunication, burglar alarm, fire alarm, life support and all security alarms, private and public telephone and related telephone interconnect, public address, paging, audio, language, electronic, background music system less than line voltage or any system acceptable for class two wiring for private, commercial, or industrial use furnished by leased wire, frequency modulation or other recording devices, electrical apparatus by means of which electricity is applied to the amplification, transmission, transference, recording or reproduction of voice, music, sound, impulses and video. Excluded from this Scope of Work - transmission, service and maintenance of background music. All of the above shall include the installation and transmission over fiber optics.		

ELEC0569-005 06/01/2020

	Rates	Fringes
Sound & Communications Sound Technician.....	\$ 33.95	13.55
SCOPE OF WORK Assembly, installation, operation, service and maintenance of components or systems as used in closed circuit television, amplified master television distribution, CATV on private property, intercommunication, burglar alarm, fire alarm, life support and all security alarms, private and public telephone and related telephone interconnect, public address, paging, audio, language, electronic, background music system less than line voltage or any system acceptable for class two wiring for private, commercial, or industrial use furnished by leased wire, frequency modulation or other recording devices, electrical apparatus by means of which electricity is applied to the amplification, transmission, transference, recording or reproduction of voice, music, sound, impulses and video. Excluded from this Scope of Work - transmission, service and maintenance of background music. All of the above shall include the installation and transmission over fiber optics.		

SOUND TECHNICIAN: Terminating, operating and performing final check-out

* ELEC0569-006 10/01/2020

Work on street lighting; traffic signals; and underground systems and/or established easements outside of buildings

	Rates	Fringes
Traffic signal, street light and underground work		
Utility Technician #1.....	\$ 33.42	3%+7.70
Utility Technician #2.....	\$ 27.85	3%+7.70

STREET LIGHT & TRAFFIC SIGNAL WORK:

UTILITY TECHNICIAN #1: Installation of street lights and traffic signals, including electrical circuitry, programmable controller, pedestal-mounted electrical meter enclosures and laying of pre-assembled cable in ducts. The layout of electrical systems and communication installation including proper position of trench depths, and radius at duct banks, location for manholes, street lights and traffic signals.

UTILITY TECHNICIAN #2: Distribution of material at jobsite, installation of underground ducts for electrical, telephone, cable TV land communication systems. The setting, leveling, grounding and racking of precast manholes, handholes and transformer pads.

ELEC0569-008 08/31/2020

	Rates	Fringes
ELECTRICIAN (Residential, 1-3 Stories).....	\$ 35.74	7.68

ELEC1245-001 06/01/2020

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer..	\$ 59.14	20.78
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment).....	\$ 47.24	19.59
(3) Groundman.....	\$ 36.12	19.19
(4) Powderman.....	\$ 51.87	18.79

HOLIDAYS: New Year's Day, M.L. King Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day and day after Thanksgiving, Christmas Day

ELEV0018-001 01/01/2020

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 57.40	34.765+a+b

FOOTNOTE:

- a. PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service.
- b. PAID HOLIDAYS: New Years Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Friday after Thanksgiving, and Christmas Day.

 ENGI0012-003 07/01/2020

	Rates	Fringes
OPERATOR: Power Equipment		
(All Other Work)		
GROUP 1.....	\$ 48.25	27.20
GROUP 2.....	\$ 49.03	27.20
GROUP 3.....	\$ 49.32	27.20
GROUP 4.....	\$ 50.81	27.20
GROUP 5.....	\$ 48.96	25.25
GROUP 6.....	\$ 51.03	27.20
GROUP 8.....	\$ 51.14	27.20
GROUP 9.....	\$ 49.29	25.25
GROUP 10.....	\$ 51.26	27.20
GROUP 11.....	\$ 49.41	25.25
GROUP 12.....	\$ 51.43	27.20
GROUP 13.....	\$ 51.53	27.20
GROUP 14.....	\$ 51.56	27.20
GROUP 15.....	\$ 51.64	27.20
GROUP 16.....	\$ 51.76	27.20
GROUP 17.....	\$ 51.93	27.20
GROUP 18.....	\$ 52.03	27.20
GROUP 19.....	\$ 52.14	27.20
GROUP 20.....	\$ 52.26	27.20
GROUP 21.....	\$ 52.43	27.20
GROUP 22.....	\$ 52.53	27.20
GROUP 23.....	\$ 52.64	27.20
GROUP 24.....	\$ 52.76	27.20
GROUP 25.....	\$ 52.93	27.20
OPERATOR: Power Equipment		
(Cranes, Piledriving & Hoisting)		
GROUP 1.....	\$ 49.60	27.20
GROUP 2.....	\$ 50.38	27.20
GROUP 3.....	\$ 50.67	27.20
GROUP 4.....	\$ 50.81	27.20
GROUP 5.....	\$ 51.03	27.20
GROUP 6.....	\$ 51.14	27.20
GROUP 7.....	\$ 51.26	27.20
GROUP 8.....	\$ 51.43	27.20
GROUP 9.....	\$ 51.60	27.20
GROUP 10.....	\$ 52.60	27.20
GROUP 11.....	\$ 53.60	27.20
GROUP 12.....	\$ 54.60	27.20
GROUP 13.....	\$ 55.60	27.20

	Rates	Fringes
OPERATOR: Power Equipment (Tunnel Work)		
GROUP 1.....	\$ 50.10	27.20
GROUP 2.....	\$ 50.88	27.20
GROUP 3.....	\$ 51.17	27.20
GROUP 4.....	\$ 51.31	27.20
GROUP 5.....	\$ 51.53	27.20
GROUP 6.....	\$ 51.64	27.20
GROUP 7.....	\$ 51.76	27.20

PREMIUM PAY:

\$3.75 per hour shall be paid on all Power Equipment Operator work on the following Military Bases: China Lake Naval Reserve, Vandenberg AFB, Point Arguello, Seely Naval Base, Fort Irwin, Nebo Annex Marine Base, Marine Corp Logistics Base Yermo, Edwards AFB, 29 Palms Marine Base and Camp Pendleton

Workers required to suit up and work in a hazardous material environment: \$2.00 per hour additional. Combination mixer and compressor operator on gunite work shall be classified as a concrete mobile mixer operator.

SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bargeman; Brakeman; Compressor operator; Ditch Witch, with seat or similar type equipment; Elevator operator-inside; Engineer Oiler; Forklift operator (includes loed, lull or similar types under 5 tons; Generator operator; Generator, pump or compressor plant operator; Pump operator; Signalman; Switchman

GROUP 2: Asphalt-rubber plant operator (nurse tank operator); Concrete mixer operator-skip type; Conveyor operator; Fireman; Forklift operator (includes loed, lull or similar types over 5 tons; Hydrostatic pump operator; oiler crusher (asphalt or concrete plant); Petromat laydown machine; PJU side dum jack; Screening and conveyor machine operator (or similar types); Skiploader (wheel type up to 3/4 yd. without attachment); Tar pot fireman; Temporary heating plant operator; Trenching machine oiler

GROUP 3: Asphalt-rubber blend operator; Bobcat or similar type (Skid steer); Equipment greaser (rack); Ford Ferguson (with dragtype attachments); Helicopter radioman (ground); Stationary pipe wrapping and cleaning machine operator

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or similar type); Boring machine operator; Boxman or mixerman (asphalt or concrete); Chip spreading machine operator; Concrete cleaning decontamination machine operator; Concrete Pump Operator (small portable); Drilling machine operator, small auger types (Texoma super economatic or similar types - Hughes 100 or 200 or similar types -

drilling depth of 30' maximum); Equipment greaser (grease truck); Guard rail post driver operator; Highline cableway signalman; Hydra-hammer-aero stomper; Micro Tunneling (above ground tunnel); Power concrete curing machine operator; Power concrete saw operator; Power-driven jumbo form setter operator; Power sweeper operator; Rock Wheel Saw/Trencher; Roller operator (compacting); Screed operator (asphalt or concrete); Trenching machine operator (up to 6 ft.); Vacuum or much truck

GROUP 5: Equipment Greaser (Grease Truck/Multi Shift).

GROUP 6: Articulating material hauler; Asphalt plant engineer; Batch plant operator; Bit sharpener; Concrete joint machine operator (canal and similar type); Concrete planer operator; Dandy digger; Deck engine operator; Derrickman (oilfield type); Drilling machine operator, bucket or auger types (Calweld 100 bucket or similar types - Watson 1000 auger or similar types - Texoma 330, 500 or 600 auger or similar types - drilling depth of 45' maximum); Drilling machine operator; Hydrographic seeder machine operator (straw, pulp or seed), Jackson track maintainer, or similar type; Kalamazoo Switch tamper, or similar type; Machine tool operator; Maginnis internal full slab vibrator, Mechanical berm, curb or gutter (concrete or asphalt); Mechanical finisher operator (concrete, Clary-Johnson-Bidwell or similar); Micro tunnel system (below ground); Pavement breaker operator (truck mounted); Road oil mixing machine operator; Roller operator (asphalt or finish), rubber-tired earth moving equipment (single engine, up to and including 25 yds. struck); Self-propelled tar pipelining machine operator; Skiploader operator (crawler and wheel type, over 3/4 yd. and up to and including 1-1/2 yds.); Slip form pump operator (power driven hydraulic lifting device for concrete forms); Tractor operator-bulldozer, tamper-scraper (single engine, up to 100 h.p. flywheel and similar types, up to and including D-5 and similar types); Tugger hoist operator (1 drum); Ultra high pressure waterjet cutting tool system operator; Vacuum blasting machine operator

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator; Backhoe operator (up to and including 3/4 yd.), small ford, Case or similar; Cast-in-place pipe laying machine operator; Combination mixer and compressor operator (gunite work); Compactor operator (self-propelled); Concrete mixer operator (paving); Crushing plant operator; Drill Doctor; Drilling machine operator, Bucket or auger types (Calweld 150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types - drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator; Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or

similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 yds. struck); Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Self-propelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 yds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bending machine operator; Trenching machine operator (over 6 ft. depth capacity, manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity): Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

GROUP 9: Heavy Duty Repairman

GROUP 10: Drilling machine operator, Bucket or auger types (Calweld 200 B bucket or similar types-Watson 3000 or 5000 auger or similar types-Texoma 900 auger or similar types-drilling depth of 105' maximum); Dual drum mixer, dynamic compactor LDC350 (or similar types); Monorail locomotive operator (diesel, gas or electric); Motor patrol-blade operator (single engine); Multiple engine tractor operator (Euclid and similar type-except Quad 9 cat.); Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Pneumatic pipe ramming tool and similar types; Prestressed wrapping machine operator; Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Rubber tired earth moving equipment operator (multiple engine, Euclid, caterpillar and similar over 25 yds. and up to 50 yds. struck), Tower crane repairman; Tractor loader operator (crawler and wheel type over 6-1/2 yds.); Woods mixer operator (and similar Pugmill equipment)

GROUP 11: Heavy Duty Repairman - Welder Combination, Welder - Certified.

GROUP 12: Auto grader operator; Automatic slip form operator; Drilling machine operator, bucket or auger types (Calweld, auger 200 CA or similar types - Watson, auger 6000 or similar types - Hughes Super Duty, auger 200 or similar types - drilling depth of 175' maximum); Hoe ram or similar

with compressor; Mass excavator operator less than 750 cu. yards; Mechanical finishing machine operator; Mobile form traveler operator; Motor patrol operator (multi-engine); Pipe mobile machine operator; Rubber-tired earth-moving equipment operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck); Rubber-tired self-loading scraper operator (paddle-wheel-auger type self-loading - two (2) or more units)

GROUP 13: Rubber-tired earth-moving equipment operator operating equipment with push-pull system (single engine, up to and including 25 yds. struck)

GROUP 14: Canal liner operator; Canal trimmer operator; Remote-control earth-moving equipment operator (operating a second piece of equipment: \$1.00 per hour additional); Wheel excavator operator (over 750 cu. yds.)

GROUP 15: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine-up to and including 25 yds. struck)

GROUP 16: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 17: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 50 cu. yds. struck); Tandem tractor operator (operating crawler type tractors in tandem - Quad 9 and similar type)

GROUP 18: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, up to and including 25 yds. struck)

GROUP 19: Rotex concrete belt operator (or similar types); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, up to and including 25 yds. struck)

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar

types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 21: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

GROUP 22: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, up to and including 25 yds. struck)

GROUP 23: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating with the tandem push-pull system (multiple engine, up to and including 25 yds. struck)

GROUP 24: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 25: Concrete pump operator-truck mounted; Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

CRANES, PILEDIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

GROUP 1: Engineer oiler; Fork lift operator (includes loed, lull or similar types)

GROUP 2: Truck crane oiler

GROUP 3: A-frame or winch truck operator; Ross carrier operator (jobsite)

GROUP 4: Bridge-type unloader and turntable operator; Helicopter hoist operator

GROUP 5: Hydraulic boom truck; Stinger crane (Austin-Western or similar type); Tugger hoist operator (1 drum)

GROUP 6: Bridge crane operator; Cretor crane operator; Hoist operator (Chicago boom and similar type); Lift mobile operator; Lift slab machine operator (Vagtborg and similar types); Material hoist and/or manlift operator; Polar gantry crane operator; Self Climbing scaffold (or similar type); Shovel, backhoe, dragline, clamshell operator (over 3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

GROUP 7: Pedestal crane operator; Shovel, backhoe, dragline, clamshell operator (over 5 cu. yds. mrc); Tower crane repair; Tugger hoist operator (3 drum)

GROUP 8: Crane operator (up to and including 25 ton capacity); Crawler transporter operator; Derrick barge operator (up to and including 25 ton capacity); Hoist operator, stiff legs, Guy derrick or similar type (up to and including 25 ton capacity); Shovel, backhoe, dragline, clamshell operator (over 7 cu. yds., M.R.C.)

GROUP 9: Crane operator (over 25 tons and up to and including 50 tons mrc); Derrick barge operator (over 25 tons up to and including 50 tons mrc); Highline cableway operator; Hoist operator, stiff legs, Guy derrick or similar type (over 25 tons up to and including 50 tons mrc); K-crane operator; Polar crane operator; Self erecting tower crane operator maximum lifting capacity ten tons

GROUP 10: Crane operator (over 50 tons and up to and including 100 tons mrc); Derrick barge operator (over 50 tons up to and including 100 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 50 tons up to and including 100 tons mrc), Mobile tower crane operator (over 50 tons, up to and including 100 tons M.R.C.); Tower crane operator and tower gantry

GROUP 11: Crane operator (over 100 tons and up to and including 200 tons mrc); Derrick barge operator (over 100 tons up to and including 200 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 100 tons up to and including 200 tons mrc); Mobile tower crane operator (over 100 tons up to and including 200 tons mrc)

GROUP 12: Crane operator (over 200 tons up to and including 300 tons mrc); Derrick barge operator (over 200 tons up to and including 300 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 200 tons, up to and including 300 tons mrc); Mobile tower crane operator (over 200 tons, up to and including 300 tons mrc)

GROUP 13: Crane operator (over 300 tons); Derrick barge operator (over 300 tons); Helicopter pilot; Hoist operator, stiff legs, Guy derrick or similar type (over 300 tons); Mobile tower crane operator (over 300 tons)

TUNNEL CLASSIFICATIONS

GROUP 1: Skiploader (wheel type up to 3/4 yd. without attachment)

GROUP 2: Power-driven jumbo form setter operator

GROUP 3: Dinkey locomotive or motorperson (up to and including 10 tons)

GROUP 4: Bit sharpener; Equipment greaser (grease truck); Slip form pump operator (power-driven hydraulic lifting device for concrete forms); Tugger hoist operator (1 drum); Tunnel locomotive operator (over 10 and up to and including 30 tons)

GROUP 5: Backhoe operator (up to and including 3/4 yd.); Small Ford, Case or similar; Drill doctor; Grouting machine operator; Heading shield operator; Heavy-duty repairperson; Loader operator (Athey, Euclid, Sierra and similar types); Mucking machine operator (1/4 yd., rubber-tired, rail or track type); Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pneumatic heading shield (tunnel); Pumpcrete gun operator; Tractor compressor drill combination operator; Tugger hoist operator (2 drum); Tunnel locomotive operator (over 30 tons)

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

ENGINEERS ZONES

\$1.00 additional per hour for all of IMPERIAL County and the portions of KERN, RIVERSIDE & SAN BERNARDINO Counties as defined below:

That area within the following Boundary: Begin in San Bernardino County, approximately 3 miles NE of the intersection of I-15 and the California State line at that point which is the NW corner of Section 1, T17N,m R14E, San Bernardino Meridian. Continue W in a straight line to that point which is the SW corner of the northwest quarter of Section 6, T27S, R42E, Mt. Diablo Meridian. Continue North to the intersection with the Inyo County Boundary at that point which is the NE corner of the western half of the northern quarter of Section 6, T25S, R42E, MDM. Continue W along the Inyo and San Bernardino County boundary until the intersection with Kern County, as that point which is the SE corner of Section 34, T24S, R40E, MDM. Continue W along the Inyo and Kern County boundary until the intersection with Tulare County, at that point which is the SW corner of the SE quarter of Section 32, T24S, R37E, MDM. Continue W along the Kern and Tulare County boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM.

Continue S to SW corner of T11N, R17W, SBM. Continue E along south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SBM to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1S, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state line. Follow the California state line west to Arizona state line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1, T17N, R14E, SBM

\$1.00 additional per hour for portions of SAN LUIS OBISPO, KERN, SANTA BARBARA & VENTURA as defined below:

That area within the following Boundary: Begin approximately 5 miles north of the community of Cholame, on the Monterey County and San Luis Obispo County boundary at the NW corner of T25S, R16E, Mt. Diablo Meridian. Continue south along the west side of R16E to the SW corner of T30S, R16E, MDM. Continue E to SW corner of T30S, R17E, MDM. Continue S to SW corner of T31S, R17E, MDM. Continue E to SW corner of T31S, R18E, MDM. Continue S along West side of R18E, MDM as it crosses into San Bernardino Meridian numbering area and becomes R30W. Follow the west side of R30W, SBM to the SW corner of T9N, R30W, SBM. Continue E along the south edge of T9N, SBM to the Santa Barbara County and Ventura County boundary at that point which is the SW corner of Section 34. T9N, R24W, SBM, continue S along the Ventura County line to that point which is the SW corner of the SE quarter of Section 32, T7N, R24W, SBM. Continue E along the south edge of T7N, SBM to the SE corner to T7N, R21W, SBM. Continue N along East side of R21W, SBM to Ventura County and Kern County boundary at the NE corner of T8N, R21W. Continue W along the Ventura County and Kern County boundary to the SE corner of T9N, R21W. Continue North along the East edge of R21W, SBM to the NE corner of T12N, R21W, SBM. Continue West along the north edge of T12N, SBM to the SE corner of T32S, R21E, MDM. [T12N SBM is a thin strip between T11N SBM and T32S MDM]. Continue North along the East side of R21E, MDM to the Kings County and Kern County border at the NE corner of T25S, R21E, MDM, continue West along the Kings County and Kern County Boundary until the intersection of San Luis Obispo County. Continue west along the Kings County and San Luis Obispo County boundary until the intersection with Monterey County. Continue West along the Monterey County and San Luis Obispo County boundary to the beginning point at the NW corner of T25S, R16E, MDM.

\$2.00 additional per hour for INYO and MONO Counties and the Northern portion of SAN BERNARDINO County as defined below:

That area within the following Boundary: Begin at the intersection of the northern boundary of Mono County and the California state line at the point which is the center of Section 17, T10N, R22E, Mt. Diablo Meridian. Continue S then SE along the entire western boundary of Mono County, until it reaches Inyo County at the point which is the NE corner of the Western half of the NW quarter of Section 2, T8S, R29E, MDM. Continue SSE along the entire western boundary of Inyo County, until the intersection with Kern County at the point which is the SW corner of the SE 1/4 of Section 32, T24S, R37E, MDM. Continue E along the Inyo and Kern County boundary until the intersection with San Bernardino County at that point which is the SE corner of section 34, T24S, R40E, MDM. Continue E along the Inyo and San Bernardino County boundary until the point which is the NE corner of the Western half of the NW quarter of Section 6, T25S, R42E, MDM. Continue S to that point which is the SW corner of the NW quarter of Section 6, T27S, R42E, MDM. Continue E in a straight line to the California and Nevada state border at the point which is the NW corner of Section 1, T17N, R14E, San Bernardino Meridian. Then continue NW along the state line to the starting point, which is the center of Section 18, T10N, R22E, MDM.

REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

 ENGI0012-004 08/01/2020

	Rates	Fringes
OPERATOR: Power Equipment		
(DREDGING)		
(1) Leverman.....	\$ 56.40	30.00
(2) Dredge dozer.....	\$ 50.43	30.00
(3) Deckmate.....	\$ 50.32	30.00
(4) Winch operator (stern winch on dredge).....	\$ 49.77	30.00
(5) Fireman-Oiler, Deckhand, Bargeman, Leveehand.....	\$ 49.23	30.00
(6) Barge Mate.....	\$ 49.84	30.00

 IRON0433-006 07/01/2020

	Rates	Fringes
IRONWORKER		
Fence Erector.....	\$ 34.58	24.81
Ornamental, Reinforcing and Structural.....	\$ 41.00	33.45

PREMIUM PAY:

\$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland,

Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB \$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base, Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center

\$2.00 additional per hour at the following locations:

Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock

LABO0089-001 07/01/2020

	Rates	Fringes
LABORER (BUILDING and all other Residential Construction)		
Group 1.....	\$ 34.18	20.48
Group 2.....	\$ 34.86	20.48
Group 3.....	\$ 35.57	20.48
Group 4.....	\$ 36.37	20.48
Group 5.....	\$ 38.30	20.48

LABORER (RESIDENTIAL CONSTRUCTION - See definition below)		
(1) Laborer.....	\$ 30.82	18.80
(2) Cleanup, Landscape, Fencing (Chain Link & Wood).....	\$ 29.53	18.80

RESIDENTIAL DEFINITION: Wood or metal frame construction of single family residences, apartments and condominiums - excluding (a) projects that exceed three stories over a garage level, (b) any utility work such as telephone, gas, water, sewer and other utilities and (c) any fine grading work, utility work or paving work in the future street and public right-of-way; but including all rough grading work at the job site behind the existing right of way

LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete Screeding for Rought Strike-off; Concrete, water curing; Demolition laborer; Flagman; Gas, oil and/or water pipeline laborer; General Laborer; General clean-up laborer; Landscape laborer; Jetting laborer; Temporary water and air lines laborer; Material hoseman (walls, slabs, floors and decks); Plugging, filling of Shee-bolt holes; Dry packing of concrete; Railroad maintenance, Repair Trackman and road beds, Streetcar and railroad construction trac laborers; Slip form raisers; Slurry seal crews (mixer operator, applicator operator, squeegee man, Shuttle man, top man), filling of cracks by any method on any surface; Tarman and mortar man; Tool crib or tool house laborer;

Window cleaner; Wire Mesh puling-all concrete pouring operations

GROUP 2: Asphalt Shoveler; Cement Dumper (on 1 yard or larger mixer and handling bulk cement); Cesspool digger and installer; Chucktender; Chute man, pouring concrete, the handling of the cufe from ready mix trucks, such as walls, slabs, decks, floors, foundations, footings, curbs, gutters and sidewalks; Concrete curer-impervious membrane and form oiler; Cutting torch operator (demoliton); Guinea chaser; Headboard man-asphlt; Laborer, packing rod steel and pans; membrane vapor barrier installer; Power broom sweepers (small); Riiprap, stonepaver, placing stone or wet sacked concrete; Roto scraper and tiller; Tank sealer and cleaner; Tree climber, faller, chain saw operator, Pittsburgh Chipper and similar type brush shredders; Underground laborers, including caisson bellower

GROUP 3: Buggymobile; Concrete cutting torch; Concrete cutting torch; Concrete pile cutter; Driller, jackhammer, 2 1/2 feet drill steel or longer; Dri Pak-it machine; High sealer (including drilling of same); Hydro seeder and similar type; Impact wrench, mult-plate; Kettleman, potmen and mean applying asphalt, lay-kold, creosote, line caustic and similar type materials (applying means applying, dipping, brushing or handling of such materials for pipe wrapping and waterproofing); Operators of pneumatic, gas, electric tools, vibratring machines, pavement breakers, air blasting, come-along, and similar mechanical tools not separately classified herein; Pipelayers back up man coating, grouting, making of joints, sealing, caulking, diapering and inclduing rubber gasket joints, pointing and any and all other services; Rotary Scarifier or multiple head concrete chipping scaarifier; Steel header board man and guideline setter; Tampers, Barko, Wacker and similar type; Trenching machine, handpropelled

GROUP 4: Asphalt raker, luterman, ironer, apshalt dumpman and asphalt spreader boxes (all types); Concrete core cutter (walls, floors or ceilings), Grinder or sander; Concrete saw man; cutting walls or flat work, scoring old or new concrete; Cribber, shorer, lagging, sheeting and trench bracing, hand-guided lagging hammer; Laser beam in connection with laborer's work; Oversize concrete vibrator operator 70 pounds and over; Pipelayer performing all services in the laying, installation and all forms of connection of pipe from the point of receiving pipe in the ditch until completion of oepration, including any and all forms of tubular material, whether pipe, metallic or non-metallic, conduit, and any other stationary type of tubular device used for the conveying of any substance or element, whether water, sewage, solid, gas, air or other product whatsoever and without regard to the nature of material from which the tubular material is fabricated; No joint pipe and stripping of same; Prefabricated manhole installer; Sandblaster (nozzleman), Porta shot-blast, water blasting

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Driller-all power drills, excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and any and all other types of mechanical drills without regard to the form of motive power.

LABO0089-002 11/01/2020

	Rates	Fringes
LABORER (MASON TENDER).....	\$ 33.00	19.23

LABO0089-004 07/01/2020

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
Laborers:		
Group 1.....	\$ 35.30	20.48
Group 2.....	\$ 35.76	20.48
Group 3.....	\$ 36.17	20.48
Group 4.....	\$ 37.01	20.48
Group 5.....	\$ 40.28	20.48

LABORER CLASSIFICATIONS

GROUP 1: Laborer: General or Construction Laborer, Landscape Laborer. Asphalt Rubber Material Loader. Boring Machine Tender (outside), Carpenter Laborer (cleaning, handling, oiling & blowing of panel forms and lumber), Concrete Laborer, Concrete Screeding for rough strike-off, Concrete water curing. Concrete Curb & Gutter laborer, Certified Confined Space Laborer, Demolition laborer & Cleaning of Brick and lumber, Expansion Joint Caulking; Environmental Remediation, Monitoring Well, Toxic waste and Geotechnical Drill tender, Fine Grader, Fire Watcher, Limbers, Brush Loader, Pilers and Debris Handlers. flagman. Gas Oil and Water Pipeline Laborer. Material Hoseman (slabs, walls, floors, decks); Plugging, filling of shee bolt holes; Dry packing of concrete and patching; Post Holer Digger (manual); Railroad maintenance, repair trackman, road beds; Rigging & signaling; Scaler, Slip-Form Raisers, Filling cracks on any surface, tool Crib or Tool House Laborer, Traffic control (signs, barriers, barricades, delineator, cones etc.), Window Cleaner

GROUP 2: Asphalt abatement; Buggymobile; Cement dumper (on 1 yd. or larger mixers and handling bulk cement); Concrete curer, impervious membrane and form oiler; Chute man, pouring concrete; Concrete cutting torch; Concrete pile cutter; driller/Jackhammer, with drill steel 2 1/2 feet or longer; Dry pak-it machine; Fence erector; Pipeline wrapper, gas, oil, water, pot tender & form man; Grout man; Installation of all asphalt overlay fabric and materials used for reinforcing asphalt; Irrigation laborer;

Kettleman-Potman hot mop, includes applying asphalt, lay-klold, creosote, lime caustic and similar tyhpes of materials (dipping, brushing, handling) and waterproofing; Membrane vapor barrier installer; Pipelayer backup man (coating, grouting, making of joints, sealing caulkiing, diapering including rubber basket joints, pointing); Rotary scarifier, multiple head concrete chipper; Rock slinger; Roto scraper & tiller; Sandblaster pot tender; Septic tank digger/installer; Tamper/wacker operator; Tank scaler & cleaner; Tar man & mortar man; Tree climber/faller, chainb saw operator, Pittsburgh chipper & similar type brush shredders.

GROUP 3: Asphalt, installation of all frabrics; Buggy Mobile Man, Bushing hammer; Compactor (all types), Concrete Curer - Impervious membrane, Form Oiler, Concrete Cutting Torch, Concrete Pile Cutter, Driller/Jackhammer with drill steel 2 1/2 ft or longer, Dry Pak-it machine, Fence erector including manual post hole digging, Gas oil or water Pipeline Wrapper - 6 ft pipe and over, Guradrail erector, Hydro seeder, Impact Wrench man (multi plate), kettleman-Potman Hot Mop includes applying Asphalt, Lay-Kold, Creosote, lime caustic and similar types of materials (dipping, brushing or handling) and waterproofing. Laser Beam in connection with Laborer work. High Scaler, Operators of Pneumatic Gas or Electric Tools, Vibrating Machines, Pavement Breakers, Air Blasting, Come-Alongs and similar mechanical tools, Remote-Controlled Robotic Tools in connection with Laborers work. Pipelayer Backup Man (Coating, grouting, m makeing of joints, sealing, caulking, diapering including rubber gasket joints, pointing and other services). Power Post Hole Digger, Rotary Scarifier (multiple head concrete chipper scarifier), Rock Slinger, Shot Blast equipment (8 to 48 inches), Steel Headerboard Man and Guideline Setter, Tamper/Wacker operator and similar types, Trenching Machine hand propelled.

GROUP 4: Any worker exposed to raw sewage. Asphalt Raker, Luteman, Asphalt Dumpman, Asphalt Spreader Boxes, Concrete Core Cutter, Concrete Saw Man, Cribber, Shorer, Head Rock Slinger. Installation of subsurface instrumentation, monitoring wells or points, remediation system installer; Laborer, asphalt-rubber distributor bootman; Oversize concrete vibrator operators, 70 pounds or over. Pipelayer, Prfefabricated Manhole Installer, Sandblast Nozzleman (Water Balsting-Porta Shot Blast), Traffic Lane Closure.

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Horizontal directional driller, Boring system, Electronic traking, Driller: all power drills excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and all other types of mechanical drills without regard to form of motive power. Environmental remediation, Monitoring well, Toxic waste and Geotechnical driller, Toxic waste removal. Welding in connection with Laborer's work.

LABO0300-005 03/01/2020

	Rates	Fringes
Asbestos Removal Laborer.....	\$ 36.13	20.33

SCOPE OF WORK: Includes site mobilization, initial site cleanup, site preparation, removal of asbestos-containing material and toxic waste, encapsulation, enclosure and disposal of asbestos- containing materials and toxic waste by hand or with equipment or machinery; scaffolding, fabrication of temporary wooden barriers and assembly of decontamination stations.

LABO0345-001 07/01/2020

	Rates	Fringes
LABORER (GUNITE)		
GROUP 1.....	\$ 45.05	19.62
GROUP 2.....	\$ 44.10	19.62
GROUP 3.....	\$ 40.56	19.62

FOOTNOTE: GUNITE PREMIUM PAY: Workers working from a Bosn'n's Chair or suspended from a rope or cable shall receive 40 cents per hour above the foregoing applicable classification rates. Workers doing gunite and/or shotcrete work in a tunnel shall receive 35 cents per hour above the foregoing applicable classification rates, paid on a portal-to-portal basis. Any work performed on, in or above any smoke stack, silo, storage elevator or similar type of structure, when such structure is in excess of 75'-0"" above base level and which work must be performed in whole or in part more than 75'-0"" above base level, that work performed above the 75'-0"" level shall be compensated for at 35 cents per hour above the applicable classification wage rate.

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Rodmen, Nozzlemen

GROUP 2: Gunmen

GROUP 3: Reboundmen

LABO1184-001 07/01/2020

	Rates	Fringes
Laborers: (HORIZONTAL DIRECTIONAL DRILLING)		
(1) Drilling Crew Laborer....	\$ 37.85	15.99
(2) Vehicle Operator/Hauler..	\$ 38.02	15.99
(3) Horizontal Directional		

	Rates	Fringes
Drill Operator.....	\$ 39.87	15.99
(4) Electronic Tracking		
Locator.....	\$ 41.87	15.99
Laborers: (STRIPING/SLURRY SEAL)		
GROUP 1.....	\$ 39.06	19.01
GROUP 2.....	\$ 40.36	19.01
GROUP 3.....	\$ 42.37	19.01
GROUP 4.....	\$ 44.11	19.01

LABORERS - STRIPING CLASSIFICATIONS

GROUP 1: Protective coating, pavement sealing, including repair and filling of cracks by any method on any surface in parking lots, game courts and playgrounds; carstops; operation of all related machinery and equipment; equipment repair technician

GROUP 2: Traffic surface abrasive blaster; pot tender - removal of all traffic lines and markings by any method (sandblasting, waterblasting, grinding, etc.) and preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

GROUP 3: Traffic delineating device applicator: Layout and application of pavement markers, delineating signs, rumble and traffic bars, adhesives, guide markers, other traffic delineating devices including traffic control. This category includes all traffic related surface preparation (sandblasting, waterblasting, grinding) as part of the application process. Traffic protective delineating system installer: removes, relocates, installs, permanently affixed roadside and parking delineation barricades, fencing, cable anchor, guard rail, reference signs, monument markers; operation of all related machinery and equipment; power broom sweeper

GROUP 4: Striper: layout and application of traffic stripes and markings; hot thermo plastic; tape traffic stripes and markings, including traffic control; operation of all related machinery and equipment

LABO1414-003 08/05/2020

	Rates	Fringes
LABORER		
PLASTER CLEAN-UP LABORER....	\$ 36.03	21.01
PLASTER TENDER.....	\$ 38.58	21.01

Work on a swing stage scaffold: \$1.00 per hour additional.

Work at Military Bases - \$3.00 additional per hour:
 Coronado Naval Amphibious Base, Fort Irwin, Marine Corps Air

Station-29 Palms, Imperial Beach Naval Air Station, Marine Corps Logistics Supply Base, Marine Corps Pickle Meadows, Mountain Warfare Training Center, Naval Air Facility-Seeley, North Island Naval Air Station, Vandenberg AFB.

PAIN0036-001 07/01/2020

	Rates	Fringes
Painters: (Including Lead Abatement)		
(1) Repaint (excludes San Diego County).....	\$ 29.59	17.12
(2) All Other Work.....	\$ 33.12	17.24

REPAINT of any previously painted structure. Exceptions: work involving the aerospace industry, breweries, commercial recreational facilities, hotels which operate commercial establishments as part of hotel service, and sports facilities.

PAIN0036-010 10/01/2020

	Rates	Fringes
DRYWALL FINISHER/TAPER		
(1) Building & Heavy Construction.....	\$ 36.69	18.90
(2) Resident Construction (Wood frame apartments, single family homes and multi-duplexes up to and including four stories).....	\$ 27.11	17.51

PAIN0036-012 10/01/2020

	Rates	Fringes
GLAZIER.....	\$ 45.55	18.06

PAIN0036-019 06/01/2020

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 32.27	17.24

PLAS0200-005 08/07/2019

	Rates	Fringes
PLASTERER.....	\$ 43.73	16.03

NORTH ISLAND NAVAL AIR STATION, COLORADO NAVAL AMPHIBIOUS BASE, IMPERIAL BEACH NAVAL AIR STATION: \$3.00 additional per hour.

PLAS0500-001 07/01/2018

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
GROUP 1.....	\$ 26.34	21.12
GROUP 2.....	\$ 27.99	21.12
GROUP 3.....	\$ 30.07	21.12

CEMENT MASONS - work inside the building line, meeting the following criteria:

GROUP 1: Residential wood frame project of any size; work classified as Type III, IV or Type V construction; interior tenant improvement work regardless the size of the project; any wood frame project of four stories or less.

GROUP 2: Work classified as type I and II construction

GROUP 3: All other work

PLUM0016-006 09/01/2020

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER		
Camp Pendleton; Vandenberg Air Force Base.....	\$ 55.88	23.66
Work ONLY on new additions and remodeling of commercial buildings, bars, restaurants, and stores not to exceed 5,000 sq. ft. of floor space.....	\$ 50.70	23.73
Work ONLY on strip malls, light commercial, tenant improvement and remodel work.....	\$ 38.73	22.06
All other work except work on new additions and remodeling of bars, restaurant, stores and commercial buildings not to exceed 5,000 sq. ft. of floor space and work on strip malls, light commercial, tenant improvement and remodel work.....	\$ 52.28	24.71

PLUM0016-011 09/01/2020

	Rates	Fringes
PLUMBER/PIPEFITTER		
Residential.....	\$ 41.62	20.63

PLUM0345-001 09/01/2020

	Rates	Fringes
PLUMBER		
Landscape/Irrigation Fitter..	\$ 35.30	24.10
Sewer & Storm Drain Work....	\$ 39.39	21.48

ROOF0045-001 07/01/2020

	Rates	Fringes
ROOFER.....	\$ 36.25	9.24

SFCA0669-001 04/01/2020

	Rates	Fringes
SPRINKLER FITTER.....	\$ 41.57	24.10

SHEE0206-001 07/01/2020

	Rates	Fringes
SHEET METAL WORKER		
Camp Pendleton.....	\$ 42.62	29.55
Except Camp Pendleton.....	\$ 40.62	29.55
Sheet Metal Technician.....	\$ 30.51	9.49

SHEET METAL TECHNICIAN - SCOPE:

a. Existing residential buildings, both single and multi-family, where each unit is heated and/or cooled by a separate system

b. New single family residential buildings including tracts.

c. New multi-family residential buildings, not exceeding five stories of living space in height, provided each unit is heated or cooled by a separate system. Hotels and motels are excluded.

d. LIGHT COMMERCIAL WORK: Any sheet metal, heating and air conditioning work performed on a project

where the total construction cost, excluding land, is under \$1,000,000 e. TENANT IMPROVEMENT WORK: Any work necessary to finish interior spaces to conform to the occupants of commercial buildings, after completion of the building shell

 TEAM0166-001 09/01/2019

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 18.90	34.69
GROUP 2.....	\$ 26.49	34.69
GROUP 3.....	\$ 26.69	34.69
GROUP 4.....	\$ 26.89	34.69
GROUP 5.....	\$ 27.09	34.69
GROUP 6.....	\$ 27.59	34.69
GROUP 7.....	\$ 29.09	34.69

FOOTNOTE: HAZMAT PAY: Work on a hazmat job, where hazmat certification is required, shall be paid, in addition to the classification working in, as follows: Levels A, B and C - +\$1.00 per hour. Workers shall be paid hazmat pay in increments of four (4) and eight (8) hours.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Fuel Man, Swamper

GROUP 2: 2-axle Dump Truck, 2-axle Flat Bed, Concrete Pumping Truck, Industrial Lift Truck, Motorized Traffic Control, Pickup Truck on Jobsite

GROUP 3: 2-axle Water Truck, 3-axle Dump Truck, 3-axle Flat Bed, Erosion Control Nozzleman, Dump Crete Truck under 6.5 yd, Forklift 15,000 lbs and over, Prell Truck, Pipeline Work Truck Driver, Road Oil Spreader, Cement Distributor or Slurry Driver, Bootman, Ross Carrier

GROUP 4: Off-road Dump Truck under 35 tons 4-axles but less than 7-axles, Low-Bed Truck & Trailer, Transit Mix Trucks under 8 yd, 3-axle Water Truck, Erosion Control Driver, Grout Mixer Truck, Dump Crete 6.5yd and over, Dumpster Trucks, DW 10, DW 20 and over, Fuel Truck and Dynamite, Truck Greaser, Truck Mounted Mobile Sweeper 2-axle Winch Truck

GROUP 5: Off-road Dump Truck 35 tons and over, 7-axles or more, Transit Mix Trucks 8 yd and over, A-Frame Truck, Swedish Cranes

GROUP 6: Off-Road Special Equipment (including but not limited to Water Pull Tankers, Athey Wagons, DJB, B70 Wuclids or like Equipment)

GROUP 7: Repairman

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour

Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION

CONTRACT AGREEMENT

CONSTRUCTION CONTRACT

This Phase-Funded contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and _____, herein called "Contractor" for construction of **North City Water Reclamation Plant Expansion and NCPWF Influent Pump Station and Pipeline**; Bid No. **K-21-1861-DBB-3**; in the total amount (\$ _____), which is comprised of the Base Bid consisting of an amount not to exceed \$ _____ for Phase I and \$ _____ for Phase II .

IN CONSIDERATION of the payments to be made hereunder and the mutual undertakings of the parties hereto, City and Contractor agree as follows:

1. The following are incorporated into this contract as though fully set forth herein:
 - (a) The attached Faithful Performance and Payment Bonds.
 - (b) The attached Proposal included in the Bid documents by the Contractor.
 - (c) Reference Standards listed in the Instruction to Bidders and the Supplementary Special Provisions (SSP).
 - (d) Phased Funding Schedule Agreement.
 - (e) That certain documents entitled **North City Water Reclamation Plant Expansion and NCPWF Influent Pump Station and Pipeline** on file in the office of the City Clerk Department as Document No. **B-21060, B-16140, S-17012**, as well as all matters referenced therein.
2. The Contractor shall perform and be bound by all the terms and conditions of this contract and in strict conformity therewith shall perform and complete in a good and workmanlike manner **North City Water Reclamation Plant Expansion and NCPWF Influent Pump Station and Pipeline**, Bid Number **K-21-1861-DBB-3**, San Diego, California.
3. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and the Contractor shall accept such payment in full satisfaction of all claims incident to such performances (See WHITEBOOK, Section 7-3.10, Phased Funding Compensation).
4. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
5. This contract is effective as of the date that the Mayor or designee signs the agreement and is approved by the City Attorney in accordance with San Diego Charter Section 40.

AFFIDAVIT OF DISPOSAL

(To be submitted upon completion of Construction pursuant to the contracts Certificate of Completion)

WHEREAS, on the _____ DAY OF _____, 2_____ the undersigned entered into and executed a contract with the City of San Diego, a municipal corporation, for:

North City Water Reclamation Plant Expansion and NCPWF Influent Pump Station and Pipeline
(Project Title)

as particularly described in said contract and identified as Bid No. **K-21-1861-DBB-3**; SAP No. (WBS) **B-21060, B-16140, S-17012**; and **WHEREAS**, the specification of said contract requires the Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from this project have been disposed of in a legal manner"; and **WHEREAS**, said contract has been completed and all surplus materials disposed of:

NOW, THEREFORE, in consideration of the final payment by the City of San Diego to said Contractor under the terms of said contract, the undersigned Contractor, does hereby affirm that all surplus materials as described in said contract have been disposed of at the following location(s)

and that they have been disposed of according to all applicable laws and regulations.

Dated this _____ DAY OF _____, _____.

By: _____
Contractor

ATTEST:

State of _____ County of _____

On this _____ DAY OF _____, 2_____, before the undersigned, a Notary Public in and for said County and State, duly commissioned and sworn, personally appeared _____ known to me to be the _____ Contractor named in the foregoing Release, and whose name is subscribed thereto, and acknowledged to me that said Contractor executed the said Release.

Notary Public in and for said County and State

**Table 10-5
Mitigation Measures – North City Pure Water Facility Influent Pump Station**

Mitigation Measure	Timing of Mitigation			Responsible Person	Location/Notes
	Pre Const.	During Const.	Post Const.		
MM-AQ-1 (construction BMPs)		X		Construction Manager	Entire site
MM-AQ-2 (construction NO _x)		X		Construction Manager	Entire site
MM-BIO-4 (Coastal California Gnatcatcher)	X	X		City of San Diego	Coastal sage scrub within the facility within MCAS Miramar and within the MHPA south of Miramar Road.
MM-BIO-9a (Qualified biologist)	X			Owner/permittee	Entire site
MM-BIO-9b (preconstruction meeting)	X			City of San Diego	Entire site
MM-BIO-9c (documentation)	X	X	X	Owner/Permittee	Entire site
MM-BIO-9d (biological construction mitigation/monitoring exhibit)	X			City of San Diego	Entire site
MM-BIO-9e (construction fencing)	X			City of San Diego	Entire site
MM-BIO-9f (on-site education)	X			City of San Diego	Entire site
MM-BIO-9g (biological monitoring)		X		City of San Diego	Entire site
MM-BIO-9j (BMPs/erosion/runoff)	X	X	X	City of San Diego	Entire site
MM-BIO-9k (toxics/project staging areas/equipment storage)		X	X	Construction Manager/owner	Entire site
MM-HAZ-2 (hazardous material reporting form)			X	City of San Diego	Entire site
MM-HIS-3 (archaeological monitoring)	X	X	X	Principal Investigator (Archaeologist)	Entire site
MM-NOI-4 (noise and vibration study)	X			Construction Contractor	Entire site
MM-PALEO-1 (paleontological monitoring)	X	X	X	Principal Investigator (Paleontologist)	Entire site

April 2017 10-35 9420-04

PK2-G-005B

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 – NORTH CITY WRP EXPANSION

**GENERAL
MITIGATION MONITORING AND
REPORTING PROGRAM (PAGES 35)**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 5B OF 1169 SHEETS	B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER DATE: 12/03/2020 PRINT DCE NAME: Andrea Demich RCE# C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER PROJECT ENGINEER: THIEN-LONG TRAN 260-1709 1900-6269
DESCRIPTION: Addendum A BY: CH APPROVED: <i>Andrea Demich</i> DATE: 1/15/21 FILM:	COORDINATE: CCS27: 1900-6269 CCS83: 40381-2005B-D
CONTRACTOR: _____ INSPECTOR: _____	DATE STARTED: _____ DATE COMPLETED: _____

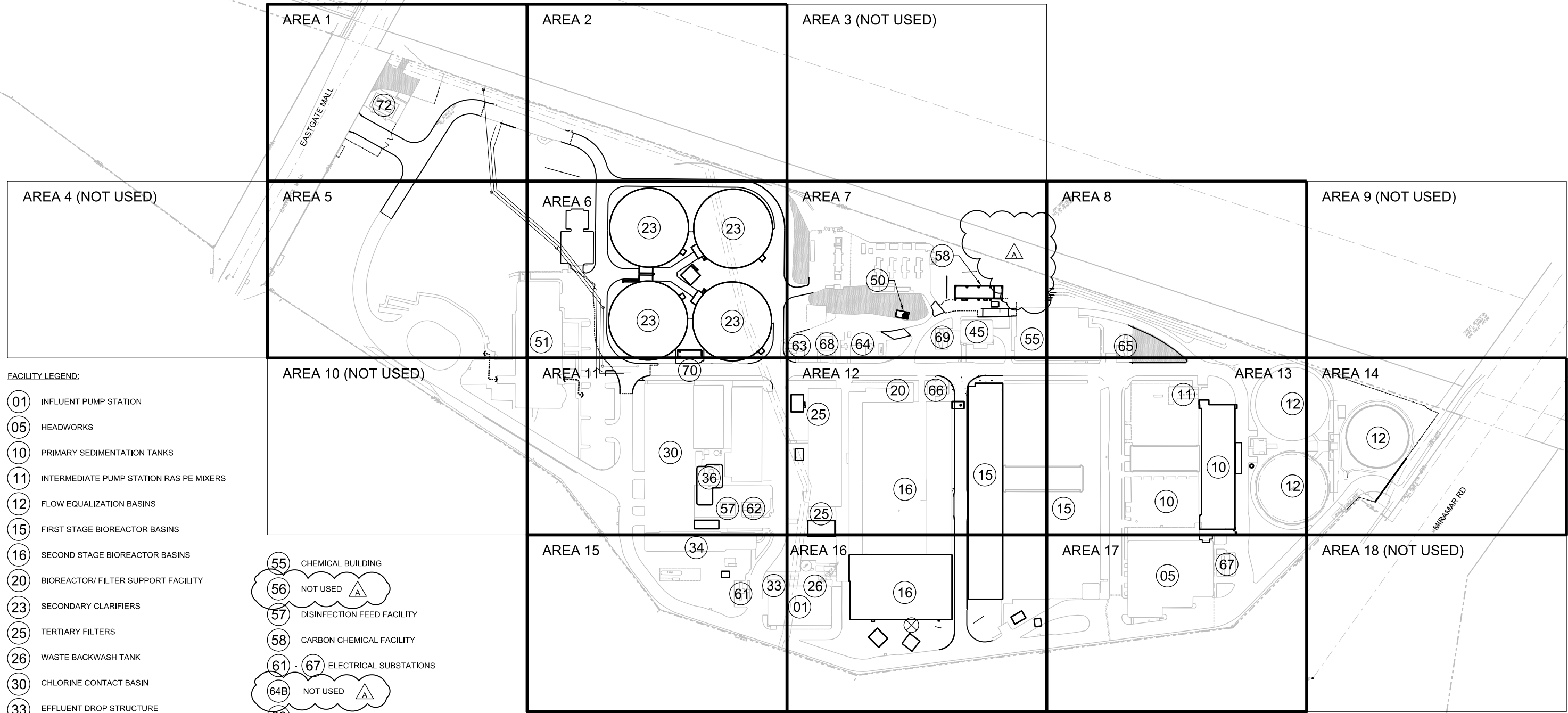
CONSTRUCTION CHANGE /ADDENDUM

CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.
ADDENDUM A	01/21	6, 15, 45, 58-59, 61-62, 65, 74-75, 77, 84, 91, 94, 96-97, 100, 106, 108, 114A-157, 161, 164-166, 168, 171, 173, 175-180, 182, 184-190, 193, 195, 211-212, 215-216, 218, 695, 702, 705, 794-796, 798, 806A, 927, 1054A, 1133	

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



FOR
REFERENCE
ONLY



- FACILITY LEGEND:**
- (01) INFLUENT PUMP STATION
 - (05) HEADWORKS
 - (10) PRIMARY SEDIMENTATION TANKS
 - (11) INTERMEDIATE PUMP STATION RAS PE MIXERS
 - (12) FLOW EQUALIZATION BASINS
 - (15) FIRST STAGE BIOREACTOR BASINS
 - (16) SECOND STAGE BIOREACTOR BASINS
 - (20) BIOREACTOR/FILTER SUPPORT FACILITY
 - (23) SECONDARY CLARIFIERS
 - (25) TERTIARY FILTERS
 - (26) WASTE BACKWASH TANK
 - (30) CHLORINE CONTACT BASIN
 - (33) EFFLUENT DROP STRUCTURE
 - (34) EFFLUENT PUMP STATION
 - (36) NCPWF INFLUENT PUMP STATION
 - (45) BLENDED SLUDGE PUMP STATION
 - (50) STORMWATER PUMP STATION
 - (51) OPERATIONS BUILDING
 - (55) CHEMICAL BUILDING
 - (56) NOT USED
 - (57) DISINFECTION FEED FACILITY
 - (58) CARBON CHEMICAL FACILITY
 - (61 - 67) ELECTRICAL SUBSTATIONS
 - (64B) NOT USED
 - (68) ELECTRICAL MAIN PLANT SWITCHGEAR
 - (69) ELECTRICAL SWITCHGEAR SUBSTATION
 - (70) SECONDARY CLARIFIER ELECTRICAL BUILDING
 - (72) ELECTRICAL SWITCHGEAR

Scale In Feet: 0 100 200 300

PK2-G-006
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

GENERAL PROJECT KEY PLAN

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 6 OF 1169 SHEETS

APPROVED FOR CITY ENGINEER <i>Andrea Demich</i> DATE: 12/03/2020 PRINT DCE NAME: Andrea Demich RCE#	DATE: 12/03/2020 C70321	PROJECT MANAGER MONIKA SMOCZYNSKI
DESCRIPTION Addendum A	BY CH	PROJECT ENGINEER THIEN-LONG TRAN
APPROVED <i>Andrea Demich</i>	DATE 1/15/21	260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
DATE STARTED		40381-2006-D
DATE COMPLETED		

CONSULTANT

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DIGITALLY SIGNED: 01/05/2021

CONTRACTOR INSPECTOR

GENERAL SITE NOTES:

- SOURCE OF TOPOGRAPHY SHOWN ON THE CIVIL PLANS IS AERIAL TOPOGRAPHY FLOWN AND MAPPED BY TOWILL, PROVIDED BY THE CITY OF SAN DIEGO. THE DATE OF PHOTOGRAPHY WAS MAY 11, 2015. THE AERIAL TOPOGRAPHY IS IN THE CALIFORNIA COORDINATE SYSTEM, ZONE 6, NAD83, VERTICAL DATUM OF 1929. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ADJUST WORK PLAN ACCORDINGLY PRIOR TO BEGINNING CONSTRUCTION.
- EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
- BASIS OF COORDINATES: THE BASIS OF BEARING FOR THIS PROJECT WAS DERIVED FROM A PREVIOUS STATIC GPS SURVEY USING ROS 14492 NAD83 FEET, ZONE 6 (EPOCH 1991.35), UTILIZING RTK/GPS FIELD PROCEDURES WITH A CALVRS BASE STATION BROADCAST OF 2014 AND CONSTRAINING TO GPS 676 (PT. 676), GPS 17 (PT. 20017) AND CHECKING GPS 679 (PT. 679) I.E. S 39°14'15" E.
- BENCHMARK: *BP WILLIAMS LN @ EASTGATE MALL RD.
ELEVATION: 367.962 MSL, BASED ON NGVD29 FEET AS SHOWN IN THE CITY OF SAN DIEGO BENCH BOOK.
- MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE, BY A LAND SURVEYOR LICENSED IN THE STATE OF CALIFORNIA.
- FOR LOCATION OF CONTROL POINT ON STRUCTURES, SEE STRUCTURAL DRAWINGS.
- COORDINATES AND DIMENSIONS SHOWN FOR ROADWAY IMPROVEMENTS ARE TO FACE OF CURB OR EDGE OF PAVEMENT.
- STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEE PARKING, CONTRACTOR'S TRAILERS AND ON-SITE STORAGE OF MATERIALS.
- PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SECURITY AT ALL TIMES.
- ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
- SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- UNLESS SHOWN ON THE LANDSCAPING PLANS, ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE SHALL BE RESTORED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATION 01 57 13, TEMPORARY EROSION AND SEDIMENT CONTROL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION CONTROL DEVICES DURING CONSTRUCTION. EROSION CONTROL DEVICES ARE DEPICTED IN THE STORMWATER POLLUTION PREVENTION PLAN, SEE SPECIFICATION 01 57 13, TEMPORARY EROSION AND SEDIMENT CONTROL FOR REQUIREMENTS.
- CONTRACTOR SHALL TAKE ALL OTHER MEASURES TO POSITIVELY PRECLUDE EROSION MATERIALS FROM LEAVING THE SITE. CONTRACTOR TO SUBMIT EROSION CONTROL PLAN.
- UNLESS OTHERWISE NOTED OR SPECIFIED, SURFACE IMPROVEMENTS DAMAGED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE RECONSTRUCTED BY THE CONTRACTOR TO THE SAME DIMENSIONS AND WITH THE SAME TYPE OF MATERIAL.

GENERAL YARD PIPING AND UTILITIES NOTES:

- EXISTING UNDERGROUND UTILITIES OBTAINED FROM AS-BUILTS FROM FIELD SURVEY, FROM THE NCWRP 10% ENGINEERING DESIGN REPORT AND THE NCWRP RECORD DRAWINGS. CONTRACTOR SHALL LOCATE, POTHOLE, AND IDENTIFY ALL UTILITIES, GROUNDING WIRES/GRIDS, AND BURIED INFRASTRUCTURE PRIOR TO EXCAVATION ACTIVITIES AND PRIOR TO FURNISHING MATERIALS FOR CONSTRUCTION. CONTRACTOR SHALL IDENTIFY ANY CONFLICTS AND/OR DISCREPANCIES WITH THE DRAWINGS AND OBTAIN RESOLUTION FROM CONSTRUCTION MANAGER AND DESIGN ENGINEER PRIOR TO EXCAVATION ACTIVITIES AND PRIOR TO FURNISHING MATERIALS FOR CONSTRUCTION. PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
- FOR PIPING FLOW STREAM IDENTIFICATION, SEE DRAWING G-103 AND G-104.
- EXISTING PIPING AND EQUIPMENT ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW PIPING AND EQUIPMENT ARE SHOWN HEAVY-LINED.
- UNLESS OTHERWISE SHOWN ALL PIPING SHALL HAVE A MINIMUM OF 4' COVER.
- ALL PIPES SHALL HAVE A CONSTANT SLOPE BETWEEN INVERT ELEVATIONS UNLESS A FITTING IS SHOWN.
- ALL NEW WATER PIPES MUST BE PROPERLY FLUSHED, PRESSURE TESTED, CHLORINATED AND BACTERIOLOGICALLY TESTED, AS SPECIFIED.
- FOR TRENCHING AND BACKFILL, SEE (SDD-110), (SDG-119), (SDM-103), (SDRW-101), (SDS-110), (SDW-110).
- FOR SURFACE RESTORATION GRADING AND LANDSCAPING PLANS.
- MINIMUM ALLOWABLE CLEARANCE BETWEEN PIPES AT CROSSINGS SHALL BE 3". CONTROLLED LOW STRENGTH MATERIAL SUPPORT IS REQUIRED AS SHOWN ON (3123-120).
- ROLLED FITTINGS ANGLE REFERENCE POINT IS PLAN VIEW.
- NIC (NOT IN CONTRACT) DASHED DELINEATION LINE IS FOR REFERENCE ONLY AND LIMITS OF NIC ARE NTS (NOT TO SCALE).
- ALL PRESSURIZED PIPING SHALL HAVE RESTRAINED JOINTS UNLESS THRUST BLOCKS ARE CALLED OUT. (A)

GENERAL NOTE:

- THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE INFORMATION SHOWN MAY BE USED ON THIS PROJECT.

CIVIL LEGEND

EXISTING	THIS CONTRACT	
		RIP-RAP
		SIGN
		CATCH BASIN
		CLEANOUT
		MANHOLE
		ELECTRICAL MANHOLE
		ELECTRICAL HANDHOLE
		POST OR GUARD POST
		GUY ANCHOR
		FIRE HYDRANT
		UTILITY POLE
		LIGHT POLE
		BENCH MARK
		SURVEY CONTROL POINT OR POINT OF INTERSECTION
		BRUSH/TREE LINE
		TREE
		PROPERTY LINE
		CENTER LINE OF ROAD
		CENTER LINE (BUILDING, PIPE)
		STAGING OR WORK AREA LIMITS
		RIGHT OF WAY LINE (ROW)
		EASEMENT LINE
		STRUCTURE, BUILDING OR FACILITY LOCATION POINT - COORDINATES
		FACILITY NUMBER
		DEMOLITION
		STRUCTURE, BUILDING OR FACILITY
		ASPHALT CONCRETE PAVEMENT
		CONCRETE PAVEMENT
		DECOMPOSED GRANITE
		TRENCH RESTORATION (4" AC OVER 6" AGGREGATE BASE) (A)
		NATIVE SOIL/ EARTH FILL
		GRANULAR DRAIN MATERIAL/ GRANULAR FILL
		CURB, EDGE OF PAVEMENT
		CURB AND GUTTER
		CURB AND GUTTER
		SINGLE SWING GATE
		DOUBLE SWING GATE
		SLIDING GATE
		CHAIN LINK FENCE
		RETAINING WALL
		CULVERT

YARD PIPING LEGEND

PIPING DESIGNATION

EXAMPLE:

16" TWE - SERVICE, SEE PIPE SCHEDULE
PIPE DIAMETER

PIPE AND FITTING SYMBOLS

EXISTING PIPE TO BE REMOVED	EXISTING PIPE TO BE ABANDONED OR REMOVED	
		NON-FREEZE HOSE VALVE (V-X) X = NO. IN SPECIFICATIONS
		NON-FREEZE HOSE VALVE WITH HOSE RACK (V-X) X = NO. IN SPECIFICATIONS
		INDICATOR POST VALVE
		GATE VALVE AND VALVE BOX
		BUTTERFLY VALVE AND VALVE BOX
		PLUG VALVE AND VALVE BOX
		FLEXIBLE COUPLING
		90° ELBOW UP
		90° ELBOW DOWN
		BEND < 90° UP
		BEND < 90° DOWN
		CONCENTRIC REDUCER
		CAP OR PLUG
		CLEANOUT
		FIRE HYDRANT

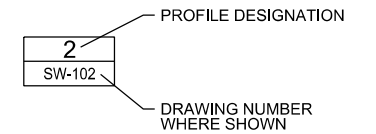
DOUBLE LINE PIPING

		90° BEND
		90° BEND UP
		90° BEND DOWN
		TEE UP
		TEE DOWN
		≤ 45° BEND
		VERTICAL BENDS
		CONCENTRIC REDUCER
		STRAIGHT TEE
		LATERAL TEE
		CLEANOUT
		MECHANICAL JOINT & PROPRIETARY RESTRAINED JOINT
		GATE VALVE
		BUTTERFLY VALVE

CIVIL LEGEND CONTINUED

	SCREEN WALL
	TRENCH SHORING
	WIRE FENCE
	B-1 BORING LOCATION AND NUMBER
	TP-2 TEST PIT LOCATION AND NUMBER
	P-3 PIEZOMETER LOCATION AND NUMBER
	O POTHOLE LOCATION
	CORROSION TEST STATION
	PHASING DELINEATION
	NOT IN CONTRACT PACKAGE LIMITS

CG AND SW PROFILE DRAWING DESIGNATIONS



PK2-G-015

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

GENERAL CIVIL AND YARD PIPING LEGEND

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 15 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED:	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	DATE: C70321	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION: Addendum A	BY: CH	DATE: 1/15/21
APPROVED:	DATE: 1/15/21	FILM: 260-1709
		CCS27 COORDINATE: 1900-6269
		CCS83 COORDINATE: 40381-2015-D
CONTRACTOR: _____	DATE STARTED: _____	DATE COMPLETED: _____
INSPECTOR: _____		



DIGITALLY SIGNED: 01/05/2021

CONTRACTOR: _____

INSPECTOR: _____

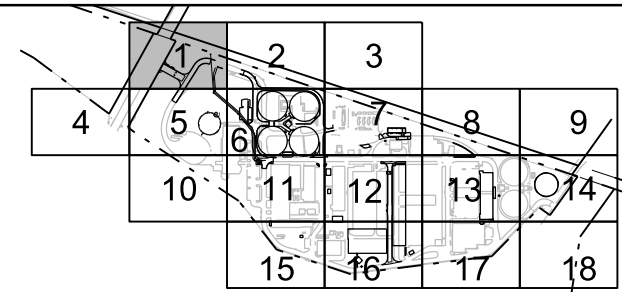
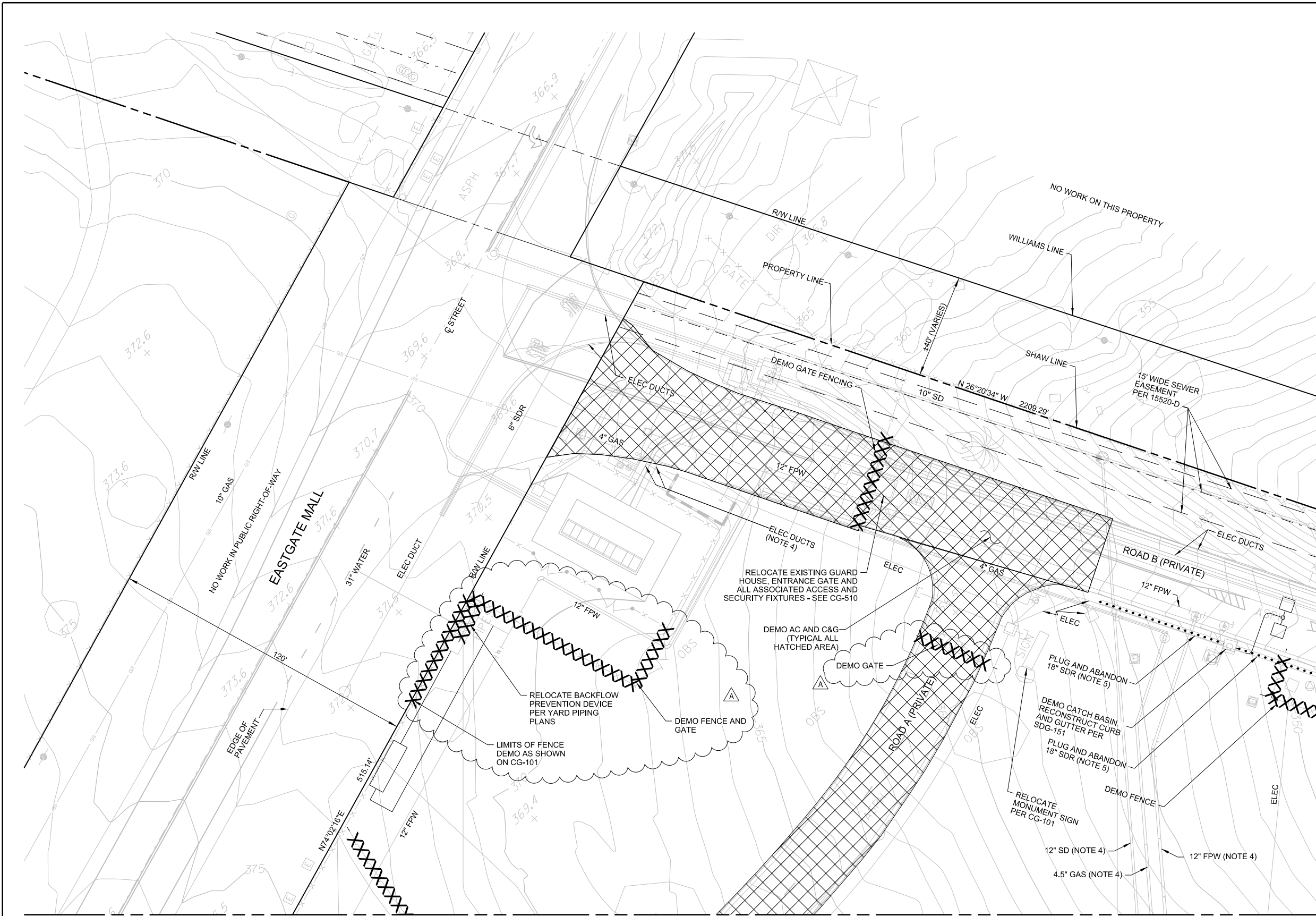
WARNING



IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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ch2mSM



KEYPLAN
NTS

MATCH LINE, SEE DWG CX-102

Scale In Feet
0 20 40 60

PK2-CX-101
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
**CIVIL
SITE DEMOLITION
PLAN - AREA 1**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 58 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C70321	SUBMITTED BY MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME Andrea Demich	RCE#	CHIEF ENGINEER THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED [Signature]	DATE 1/15/21	FILM 260-1709
		CCS27 COORDINATE 1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-2058-D
INSPECTOR	DATE COMPLETED	

- NOTES:**
- SEE DWG Y-101 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - PRIOR TO ABANDONMENT, CONTRACTOR TO DETERMINE IF THERE ARE ANY UPSTREAM CONNECTIONS TO EXISTING STORM DRAIN. IF UPSTREAM CONNECTIONS ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF WORK IMMEDIATELY.
 - EXISTING IRRIGATION PIPING NOT SHOWN. DEMOLISH EXISTING IRRIGATION PIPING ENCOUNTERED DURING CONSTRUCTION. RESTORATION OF IRRIGATION LINES TO BE COMPLETED BY OTHERS.

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760-931-8680
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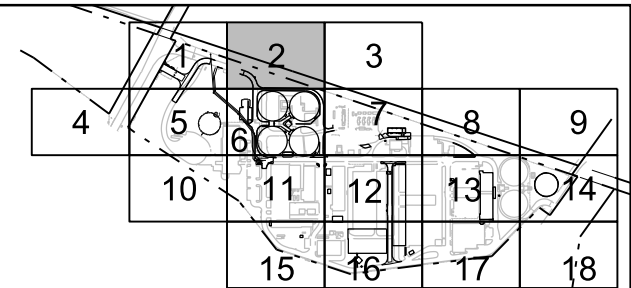
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Processing
Surveying

REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSON
NO. 60223
EXP. 6-30-2022
CIVIL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 01/05/2021

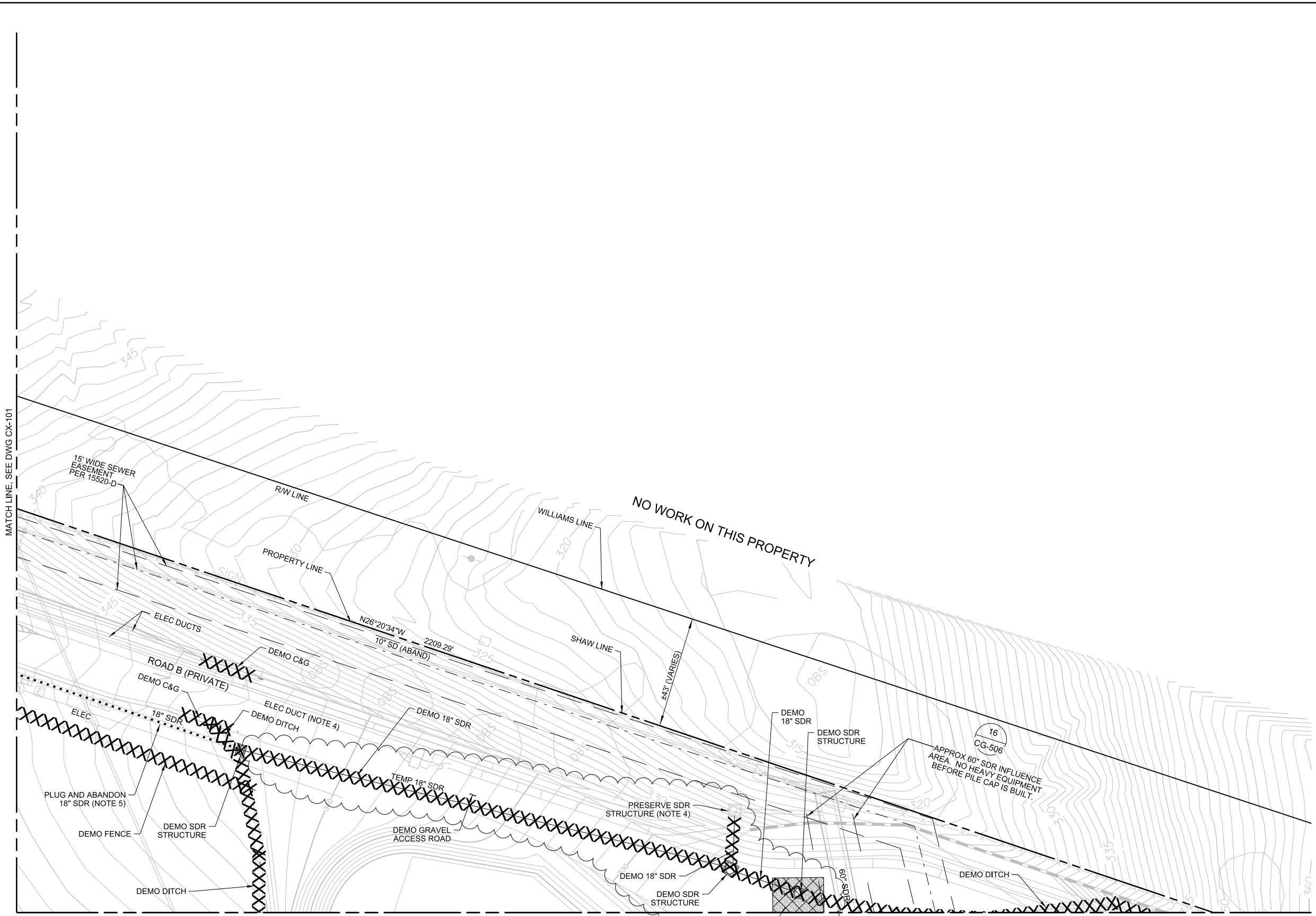
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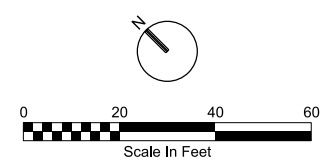
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



KEYPLAN
NTS



- NOTES:**
- SEE DWG Y-102 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - CONTRACTOR TO DETERMINE IF THERE ARE ANY UPSTREAM CONNECTIONS TO EXISTING STORM DRAIN TO BE ABANDONED. IF UPSTREAM CONNECTIONS ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF WORK IMMEDIATELY.
 - EXISTING IRRIGATION PIPING NOT SHOWN. DEMOLISH EXISTING IRRIGATION PIPING ENCOUNTERED DURING CONSTRUCTION. RESTORATION OF IRRIGATION LINES TO BE COMPLETED BY OTHERS.



PK2-CX-102

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL SITE DEMOLITION PLAN - AREA 2

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 59 OF 1169 SHEETS

APPROVED FOR CITY ENGINEER <i>Andrea Demich</i> DATE: 12/03/2020 RCE# C70321	NO. 60223 EXPIRES: 6-30-2022 REGISTERED PROFESSIONAL ENGINEER KEITH W. HANSEN CIVIL STATE OF CALIFORNIA DIGITALLY SIGNED: 01/05/2021	PROJECT MANAGER MONIKA SMOCZYNSKI	B-16149, S-17012 WBS B-15142		
PROJECT ENGINEER THIEN-LONG TRAN	DESCRIPTION	BY	APPROVED	DATE	FIRM
ADDENDUM A	CH	<i>Andrea Demich</i>		1/15/21	
					260-1709
					1900-6269
					CCS27 COORDINATE
					CCS83 COORDINATE
CONTRACTOR	INSPECTOR	DATE STARTED	DATE COMPLETED	40381-2059-D	

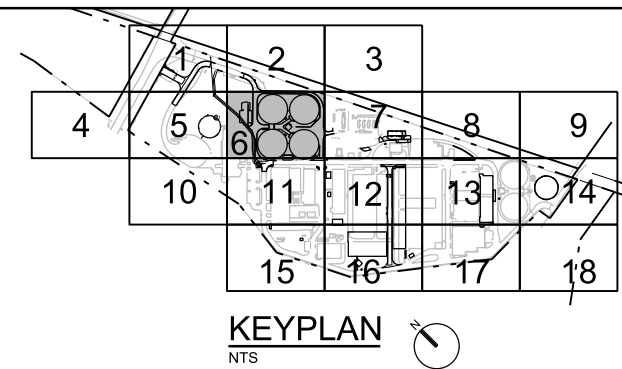
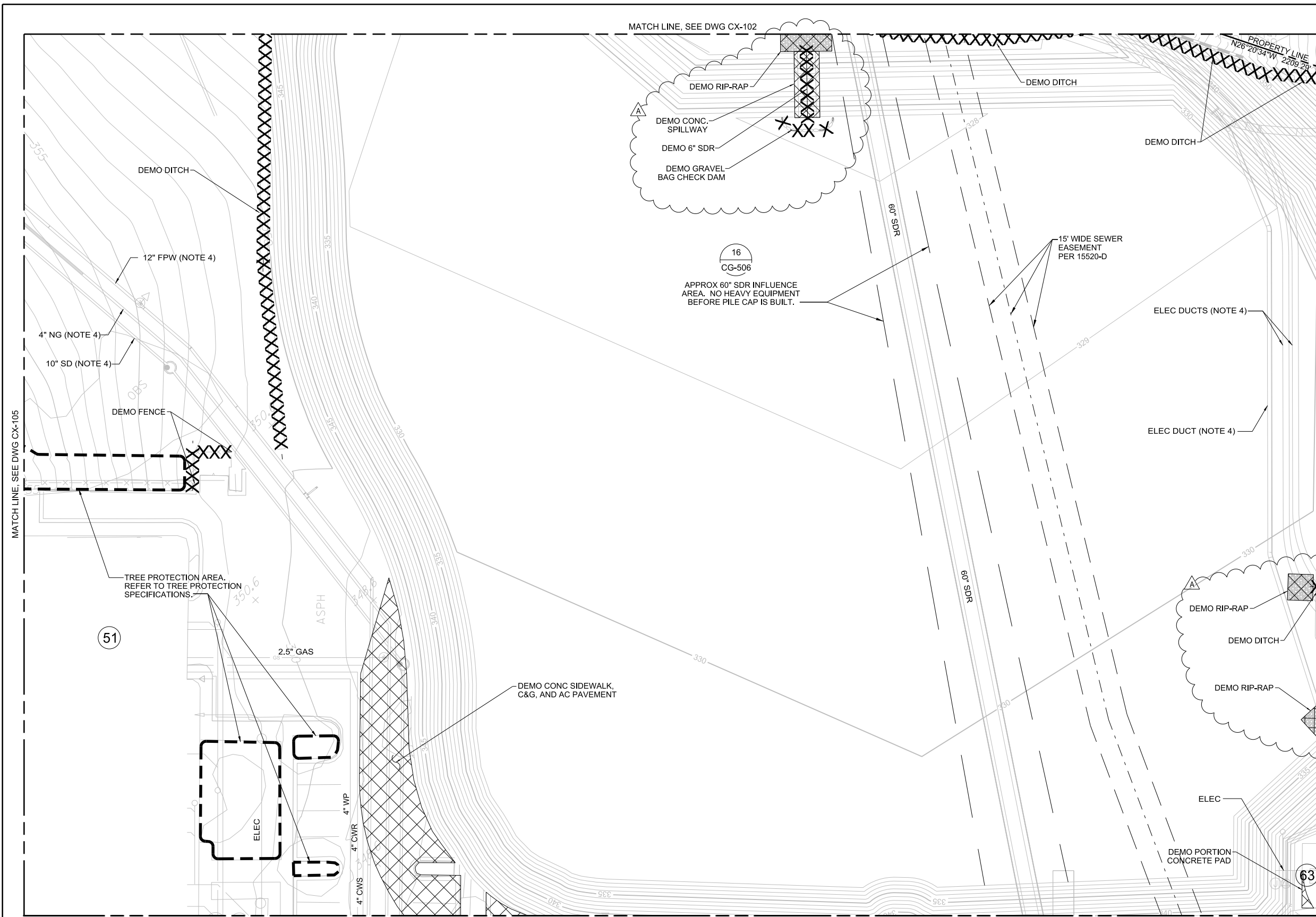
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760-931-8680
Fax: 760-931-8680
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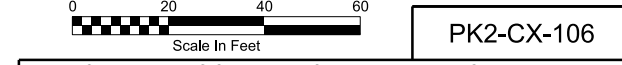
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WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



- NOTES:**
- SEE DWG Y-106 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - EXISTING IRRIGATION PIPING NOT SHOWN. DEMOLISH EXISTING IRRIGATION PIPING ENCOUNTERED DURING CONSTRUCTION. RESTORATION OF IRRIGATION LINES TO BE COMPLETED BY OTHERS.



PK2-CX-106
 NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 2 - NORTH CITY WRP EXPANSION
**CIVIL
 SITE DEMOLITION
 PLAN - AREA 6**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 61 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Keith W. Hansen</i> FOR CITY ENGINEER	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	RCE#	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Keith W. Hansen</i>
		DATE
		1/15/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
		40381-2061-D

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REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
 NO. 60223
 Exp. 6-30-2022
 CIVIL
 STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/05/2021

CONTRACTOR _____
 INSPECTOR _____

DATE STARTED _____
 DATE COMPLETED _____

WARNING

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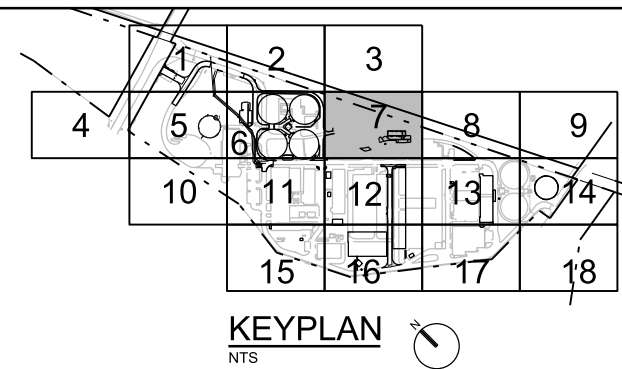
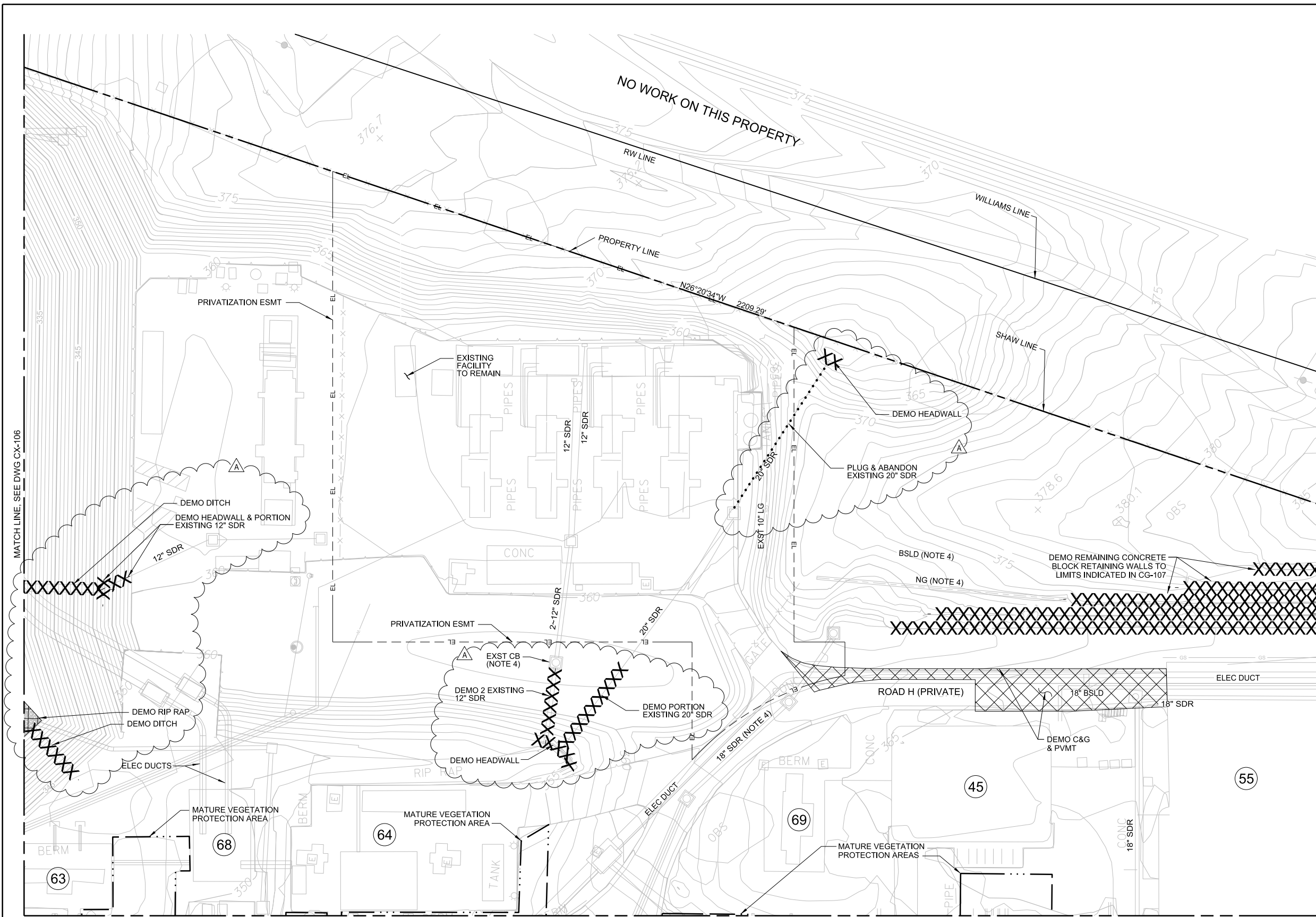
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MATCH LINE, SEE DWG CX-102 (top)

MATCH LINE, SEE DWG CX-105 (left)

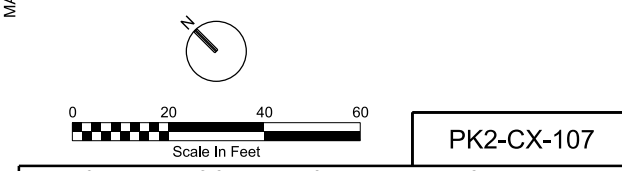
MATCH LINE, SEE DWG CX-107 (right)

MATCH LINE, SEE DWG CX-111 (bottom)



- NOTES:**
- SEE DWG Y-107 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - EXISTING IRRIGATION PIPING NOT SHOWN. DEMOLISH EXISTING IRRIGATION PIPING ENCOUNTERED DURING CONSTRUCTION. RESTORATION OF IRRIGATION LINES TO BE COMPLETED BY OTHERS.

- MATURE VEGETATION PROTECTION AREAS:**
- INSTALL PROTECTION FENCING AROUND MATURE SHRUBS TO LIMIT TOPSOIL DISTURBANCE, ROOT DAMAGE OR FOLIAGE DAMAGE.
 - MAINTAIN EXISTING GRADE WITHIN THESE DESIGNATED PROTECTION AREAS.
 - IRRIGATION IN THESE AREAS SHALL BE MAINTAINED OR ESTABLISHED TO KEEP VEGETATION IN HEALTHY CONDITION DURING ALL STAGES OF CONSTRUCTION. SUBMIT LANDSCAPE WATERING SCHEDULE PRIOR TO BEGINNING ANY SITE WORK.
 - VEHICLE USE, FOOT TRAFFIC, AND STORAGE OF ANY KIND IS PROHIBITED WITHIN PROTECTED LANDSCAPE AREAS.
 - AREAS SHALL BE PROTECTED FROM FLOODING, EROSION, CHEMICAL SPILLS, AND EXCESSIVE WETTING AND DRYING.
 - CONTRACTOR SHALL REPLACE VEGETATION THAT HAS DIED WITH NEW CONTAINER PLANTS OF SIMILAR TYPE, SIZE AND CHARACTER TO BE COORDINATED WITH CITY STAFF AND LANDSCAPE ARCHITECT.



PK2-CX-107
 NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL SITE DEMOLITION PLAN - AREA 7

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 62 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C79321	SUBMITTED BY MONIKA SMOczynski PROJECT MANAGER
PRINT DCE NAME Andrea Demich	RCE#	CHIEF ENGINEER THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED <i>Andrea Demich</i>	DATE 1/15/21	FILM 260-1709
		1900-6269
		40381-2062-D
CONTRACTOR	DATE STARTED	DATE COMPLETED
INSPECTOR		

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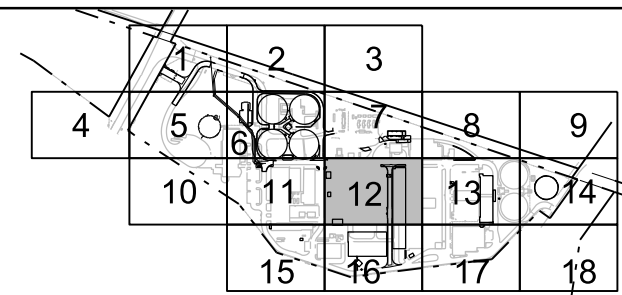
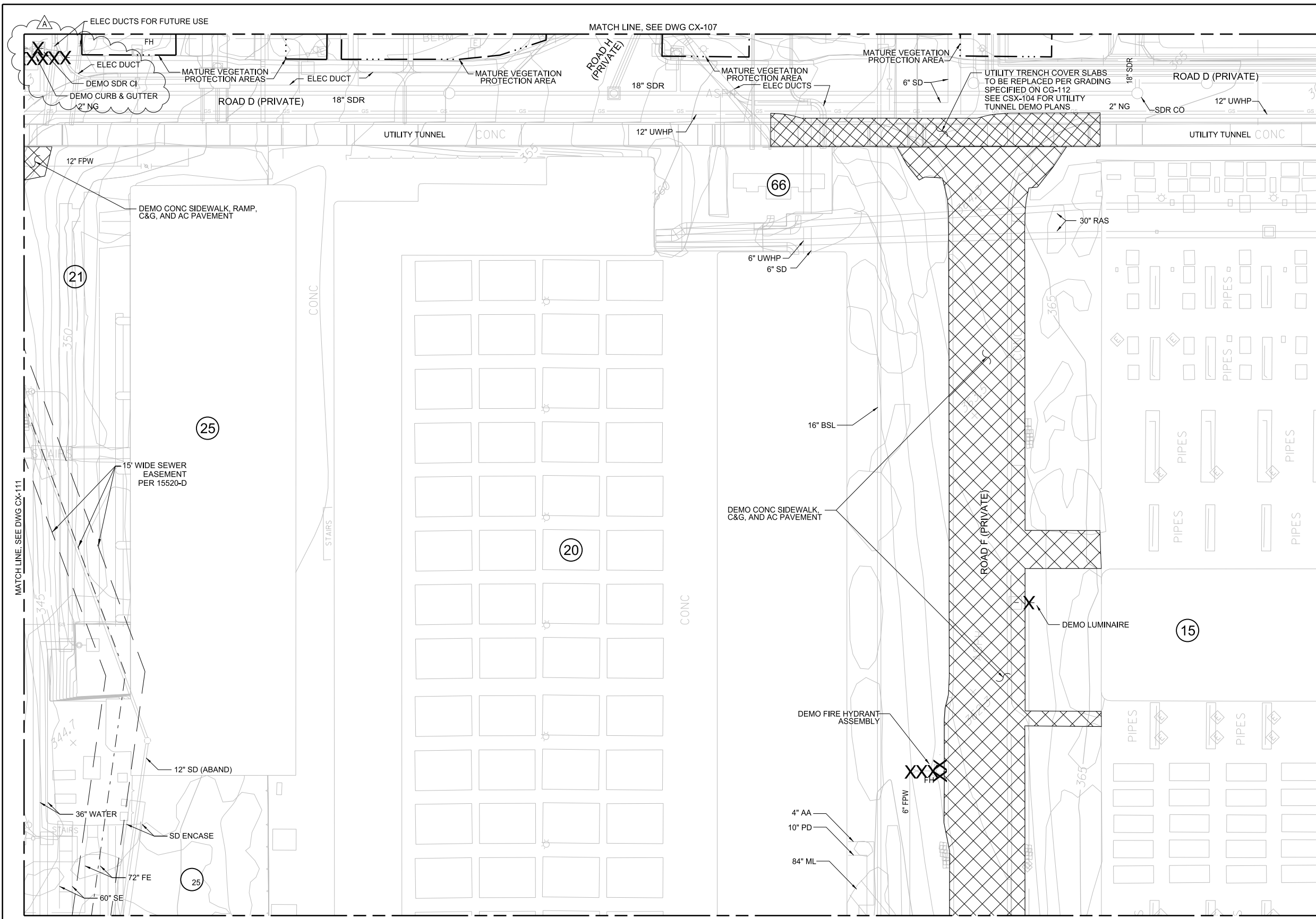
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Carlsbad, California 92010
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Fax: 760-931-8680
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REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
NO. 60223
DATE 6-30-2022
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/05/2021

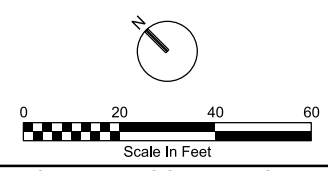
WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



KEYPLAN
NTS

- NOTES:**
- SEE DWG Y-112 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EXISTING IRRIGATION PIPING NOT SHOWN. DEMOLISH EXISTING IRRIGATION PIPING ENCOUNTERED DURING CONSTRUCTION. RESTORATION OF IRRIGATION LINES TO BE COMPLETED BY OTHERS.

- MATURE VEGETATION PROTECTION AREAS:**
- INSTALL PROTECTION FENCING AROUND MATURE SHRUBS TO LIMIT TOPSOIL DISTURBANCE, ROOT DAMAGE OR FOLIAGE DAMAGE.
 - MAINTAIN EXISTING GRADE WITHIN THESE DESIGNATED PROTECTION AREAS.
 - IRRIGATION IN THESE AREAS SHALL BE MAINTAINED OR ESTABLISHED TO KEEP VEGETATION IN HEALTHY CONDITION DURING ALL STAGES OF CONSTRUCTION. SUBMIT LANDSCAPE WATERING SCHEDULE PRIOR TO BEGINNING ANY SITE WORK. VEHICLE USE, FOOT TRAFFIC, AND STORAGE OF ANY KIND IS PROHIBITED WITHIN PROTECTED LANDSCAPE AREAS.
 - AREAS SHALL BE PROTECTED FROM FLOODING, EROSION, CHEMICAL SPILLS, AND EXCESSIVE WETTING AND DRYING. CONTRACTOR SHALL REPLACE VEGETATION THAT HAS DIED WITH NEW CONTAINER PLANTS OF SIMILAR TYPE, SIZE AND CHARACTER TO BE COORDINATED WITH CITY STAFF AND LANDSCAPE ARCHITECT.



PK2-CX-112

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL SITE DEMOLITION PLAN - AREA 12

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 65 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C70321	SUBMITTED BY MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME Andrea Demich	RCE#	CHIEF ENGINEER THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED	DATE	FILM
		260-1709
		1900-6269
		40381-2065-D
CONTRACTOR	DATE STARTED	DATE COMPLETED
INSPECTOR		

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REGISTERED PROFESSIONAL ENGINEER
KETH W. HANSEN
NO. 60223
DATE 06-28-2002
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/05/2021

WARNING

0 1

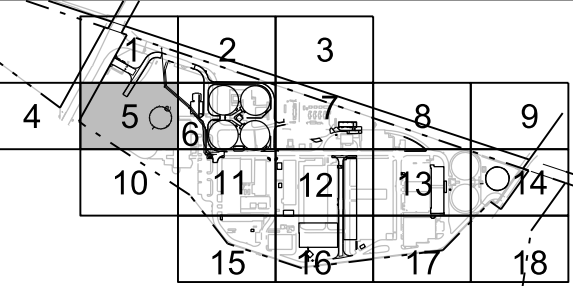
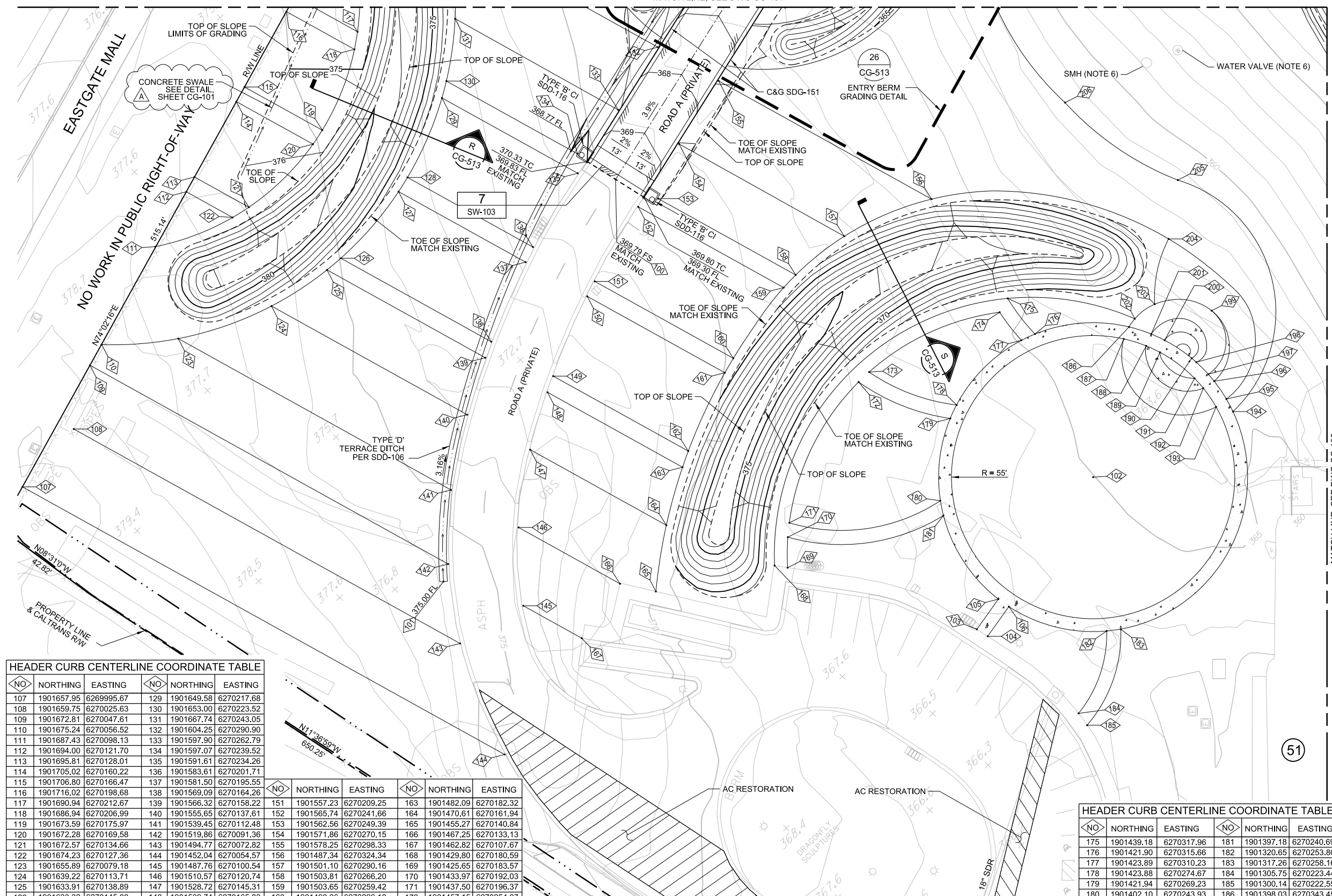
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MATCH LINE, SEE DWG CX-111

MATCH LINE, SEE DWG CX-116

MATCH LINE, SEE DWG CX-113

MATCH LINE, SEE DWG CG-101



KEYPLAN
NTS

NO	DESCRIPTION	NORTHING	EASTING
100	END CL, MATCH EXISTING	1901579.54	6270242.97
101	BEGIN TYPE 'D' TERRACE DITCH	1901579.54	6270242.97
102	CENTER OF 5' WIDTH SIDEWALK CIRCLE	1901366.63	6270292.32
103	EDGE OF SIDEWALK	1901356.76	6270218.61
104	EDGE OF SIDEWALK	1901351.86	6270219.65
105	EDGE OF SIDEWALK	1901359.14	6270232.79
106	EDGE OF SIDEWALK	1901354.21	6270233.62

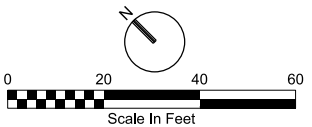
NO	NORTHING	EASTING	NO	NORTHING	EASTING
187	1901396.17	6270338.72	197	1901363.25	6270352.23
188	1901388.09	6270342.96	198	1901369.85	6270352.24
189	1901382.55	6270344.97	199	1901379.80	6270370.59
190	1901372.23	6270352.06	200	1901384.59	6270349.57
191	1901365.90	6270347.32	201	1901389.97	6270347.60
192	1901360.80	6270347.01	202	1901398.67	6270347.26
193	1901352.14	6270345.38	203	1901397.21	6270356.74
194	1901346.22	6270348.75	204	1901411.34	6270378.48
195	1901351.50	6270350.39	205	1901424.97	6270397.16
196	1901359.71	6270351.92	206	1901477.21	6270387.49

- NOTES:**
- SEE DWG Y-105 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
 - GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
 - THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DEMOLITION DETAILS ON DWG CX-105.
 - SEE DWG L-105 FOR LANDSCAPING PLANS.

NO	NORTHING	EASTING	NO	NORTHING	EASTING
107	1901657.95	6269995.67	129	1901649.58	6270217.68
108	1901659.75	6270025.63	130	1901653.00	6270223.52
109	1901672.81	6270047.61	131	1901667.74	6270243.05
110	1901675.24	6270056.52	132	1901604.25	6270290.90
111	1901687.43	6270098.13	133	1901597.90	6270262.79
112	1901694.00	6270121.70	134	1901597.07	6270239.52
113	1901695.81	6270128.01	135	1901591.61	6270234.26
114	1901705.02	6270160.22	136	1901583.61	6270201.71
115	1901706.80	6270166.47	137	1901581.50	6270195.55
116	1901716.02	6270198.68	138	1901569.09	6270164.26
117	1901690.94	6270212.67	139	1901566.32	6270158.22
118	1901686.94	6270206.99	140	1901555.65	6270137.61
119	1901673.59	6270175.97	141	1901539.45	6270112.48
120	1901672.28	6270169.58	142	1901519.86	6270091.36
121	1901672.57	6270134.66	143	1901494.77	6270072.82
122	1901674.23	6270127.36	144	1901452.04	6270054.57
123	1901655.89	6270079.18	145	1901487.76	6270100.54
124	1901639.22	6270113.71	146	1901510.57	6270120.74
125	1901633.91	6270138.89	147	1901528.72	6270145.31
126	1901633.32	6270145.88	148	1901539.74	6270165.83
127	1901635.76	6270180.03	149	1901542.60	6270171.83
128	1901637.21	6270186.37	150	1901555.16	6270203.08
151	1901557.23	6270209.25	163	1901482.09	6270182.32
152	1901565.74	6270241.66	164	1901470.61	6270161.94
153	1901562.56	6270249.39	165	1901455.27	6270140.84
154	1901571.86	6270270.15	166	1901467.25	6270133.13
155	1901578.25	6270298.33	167	1901462.82	6270107.67
156	1901487.34	6270324.34	168	1901429.80	6270180.59
157	1901501.10	6270290.16	169	1901425.65	6270183.57
158	1901503.81	6270266.20	170	1901433.97	6270192.03
159	1901503.65	6270259.42	171	1901437.50	6270196.37
160	1901498.06	6270226.18	172	1901457.15	6270254.07
161	1901496.42	6270219.88	173	1901457.00	6270259.68
162	1901484.94	6270188.32	174	1901437.57	6270311.95

NO	NORTHING	EASTING	NO	NORTHING	EASTING
151	1901557.23	6270209.25	163	1901482.09	6270182.32
152	1901565.74	6270241.66	164	1901470.61	6270161.94
153	1901562.56	6270249.39	165	1901455.27	6270140.84
154	1901571.86	6270270.15	166	1901467.25	6270133.13
155	1901578.25	6270298.33	167	1901462.82	6270107.67
156	1901487.34	6270324.34	168	1901429.80	6270180.59
157	1901501.10	6270290.16	169	1901425.65	6270183.57
158	1901503.81	6270266.20	170	1901433.97	6270192.03
159	1901503.65	6270259.42	171	1901437.50	6270196.37
160	1901498.06	6270226.18	172	1901457.15	6270254.07
161	1901496.42	6270219.88	173	1901457.00	6270259.68
162	1901484.94	6270188.32	174	1901437.57	6270311.95

NO	NORTHING	EASTING	NO	NORTHING	EASTING
175	1901439.18	6270317.96	181	1901397.18	6270240.69
176	1901421.90	6270315.66	182	1901320.65	6270253.80
177	1901423.89	6270310.23	183	1901317.26	6270258.16
178	1901423.88	6270274.67	184	1901305.75	6270223.44
179	1901421.94	6270269.23	185	1901300.14	6270222.55
180	1901402.10	6270243.93	186	1901398.03	6270343.45



PK2-CG-105

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
**CIVIL
SITE GRADING & LOCATION
PLAN - AREA 5**

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 74 OF 1169 SHEETS

APPROVED: FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C79321	PROJECT MANAGER MONIKA SMOCZYNSKI
PRINT DCE NAME: Addendum A	RCE#	PROJECT ENGINEER THIEN-LONG TRAN
DESCRIPTION	BY	DATE
	CH	1/15/21
APPROVED		
DATE STARTED		
DATE COMPLETED		

CONSULTANT

2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
Fax: 760-931-8680
OdayConsultants.com

Civil Engineering
Planning
Processing
Surveying

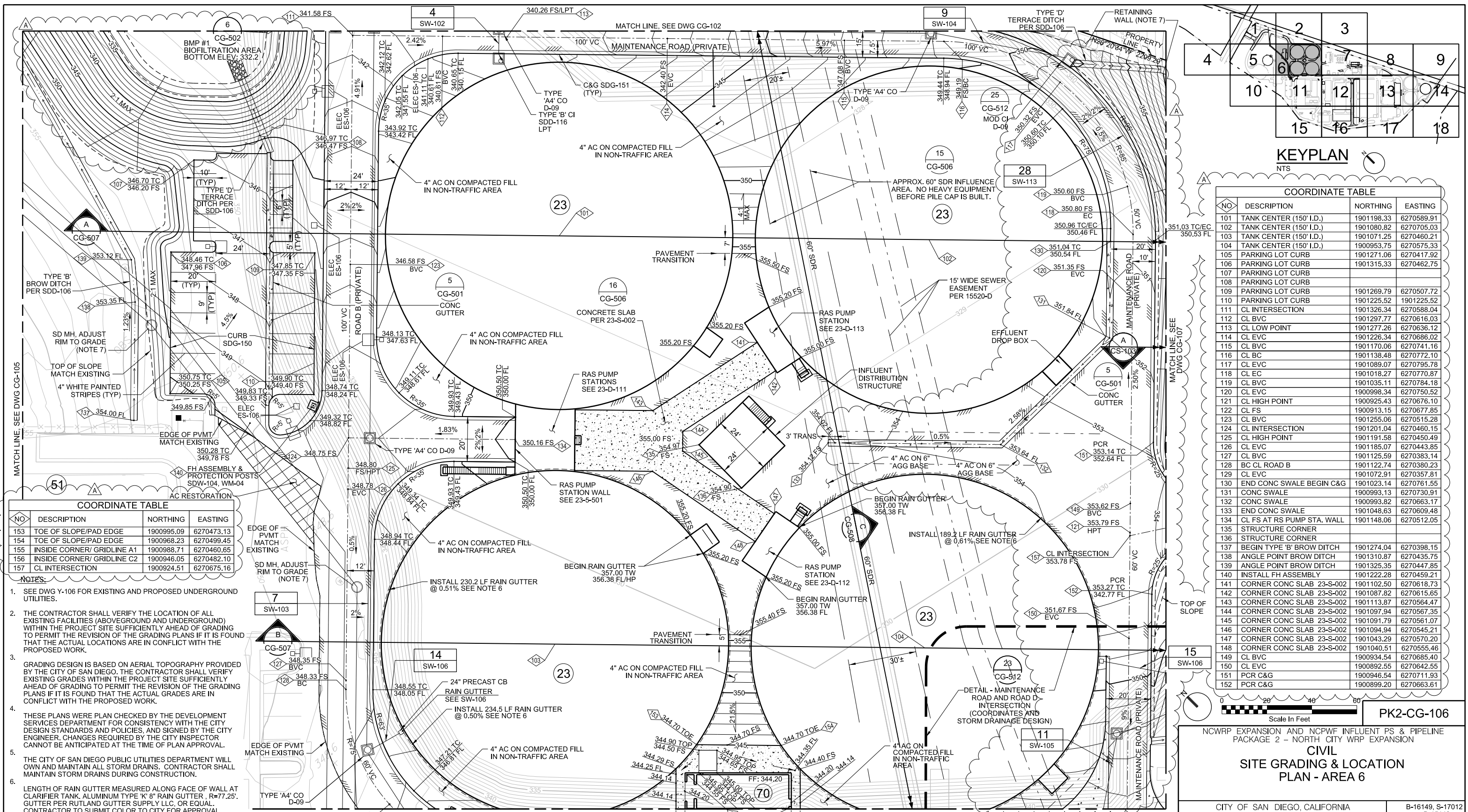
REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
NO. 60223
DATE 6-30-2021
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/05/2021

CONTRACTOR
INSPECTOR

WARNING

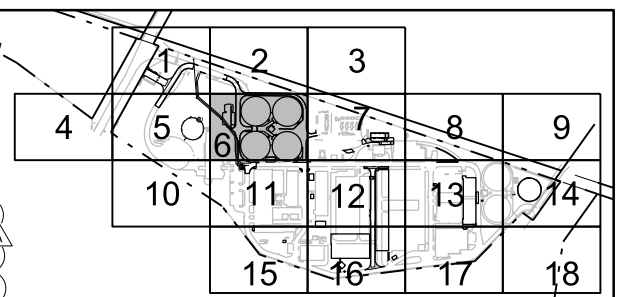
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



COORDINATE TABLE

NO	DESCRIPTION	NORTHING	EASTING
153	TOE OF SLOPE/PAD EDGE	1900995.09	6270473.13
154	TOE OF SLOPE/PAD EDGE	1900968.23	6270499.45
155	INSIDE CORNER/ GRIDLINE A1	1900988.71	6270460.65
156	INSIDE CORNER/ GRIDLINE C2	1900946.05	6270482.10
157	CL INTERSECTION	1900924.51	6270675.16

- NOTES:**
- SEE DWG Y-106 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
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 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - LENGTH OF RAIN GUTTER MEASURED ALONG FACE OF WALL AT CLARIFIER TANK. ALUMINUM TYPE 'K' 3" RAIN GUTTER, R=7.25". GUTTER PER FUTLAND GUTTER SUPPLY LLC. OR EQUAL. CONTRACTOR TO SUBMIT COLOR TO CITY FOR APPROVAL.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DEMOLITION DETAILS ON DWG CX-106.



COORDINATE TABLE

NO	DESCRIPTION	NORTHING	EASTING
101	TANK CENTER (150' I.D.)	1901198.33	6270589.91
102	TANK CENTER (150' I.D.)	1901080.82	6270705.03
103	TANK CENTER (150' I.D.)	1901071.25	6270460.21
104	TANK CENTER (150' I.D.)	1900953.75	6270575.33
105	PARKING LOT CURB	1901271.06	6270417.92
106	PARKING LOT CURB	1901315.33	6270462.75
107	PARKING LOT CURB		
108	PARKING LOT CURB		
109	PARKING LOT CURB	1901269.79	6270507.72
110	PARKING LOT CURB	1901225.52	1901225.52
111	CL INTERSECTION	1901326.34	6270588.04
112	CL BVC	1901297.77	6270616.03
113	CL LOW POINT	1901277.26	6270636.12
114	CL EVC	1901226.34	6270686.02
115	CL BVC	1901170.06	6270741.16
116	CL BC	1901138.48	6270772.10
117	CL EVC	1901089.07	6270795.78
118	CL EC	1901018.27	6270770.87
119	CL BVC	1901035.11	6270784.18
120	CL EVC	1900998.34	6270750.52
121	CL HIGH POINT	1900925.43	6270676.10
122	CL FS	1900913.15	6270677.85
123	CL BVC	1901255.06	6270515.28
124	CL INTERSECTION	1901201.04	6270460.15
125	CL HIGH POINT	1901191.58	6270450.49
126	CL EVC	1901185.07	6270443.85
127	CL BVC	1901125.59	6270383.14
128	BC CL ROAD B	1901122.74	6270380.23
129	CL EVC	1901072.91	6270357.81
130	END CONC SWALE BEGIN C&G	1901023.14	6270761.55
131	CONC SWALE	1900993.13	6270730.91
132	CONC SWALE	1900993.82	6270663.17
133	END CONC SWALE	1901048.63	6270609.48
134	CL FS AT RS PUMP STA. WALL	1901148.06	6270512.05
135	STRUCTURE CORNER		
136	STRUCTURE CORNER		
137	BEGIN TYPE 'B' BROW DITCH	1901274.04	6270398.15
138	ANGLE POINT BROW DITCH	1901310.87	6270435.75
139	ANGLE POINT BROW DITCH	1901325.35	6270447.85
140	INSTALL FH ASSEMBLY	1901222.28	6270459.21
141	CORNER CONC SLAB 23-S-002	1901102.50	6270618.73
142	CORNER CONC SLAB 23-S-002	1901087.82	6270615.65
143	CORNER CONC SLAB 23-S-002	1901113.87	6270564.47
144	CORNER CONC SLAB 23-S-002	1901097.94	6270567.35
145	CORNER CONC SLAB 23-S-002	1901091.79	6270561.07
146	CORNER CONC SLAB 23-S-002	1901094.94	6270545.21
147	CORNER CONC SLAB 23-S-002	1901043.29	6270570.20
148	CORNER CONC SLAB 23-S-002	1901040.51	6270555.46
149	CL BVC	1900934.54	6270685.40
150	CL EVC	1900892.55	6270642.55
151	PCR C&G	1900946.54	6270711.93
152	PCR C&G	1900899.20	6270663.61

PK2-CG-106

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CIVIL SITE GRADING & LOCATION PLAN - AREA 6

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 75 OF 1169 SHEETS

APPROVED: *Andrea Demich* DATE: 12/03/2020
FOR CITY ENGINEER: DATE: 07/30/21
PRINT DCE NAME: Andrea Demich RCE#

PROJECT MANAGER: **MONIKA SMOCZYNSKI**
PROJECT ENGINEER: **THIEN-LONG TRAN**

DESCRIPTION	BY	APPROVED	DATE	FILM
Addendum A	CH	<i>Andrea Demich</i>	1/15/21	

260-1709
CCS27 COORDINATE
1900-6269
CCS83 COORDINATE

DATE STARTED: _____ DATE COMPLETED: _____

CONTRACTOR: _____ INSPECTOR: _____

40381-2075-D

CONSULTANT

O'Day CONSULTANTS

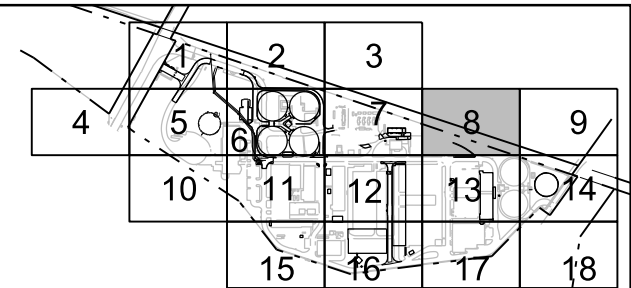
2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
Fax: 760-931-8680
O'DayConsultants.com

Civil Engineering
Planning
Processing
Surveying

REGISTERS PROFESSIONAL ENGINEER
KEITH W. HANSEN
No. 60223
Exp. 6-30-2022
CIVIL
STATE OF CALIFORNIA

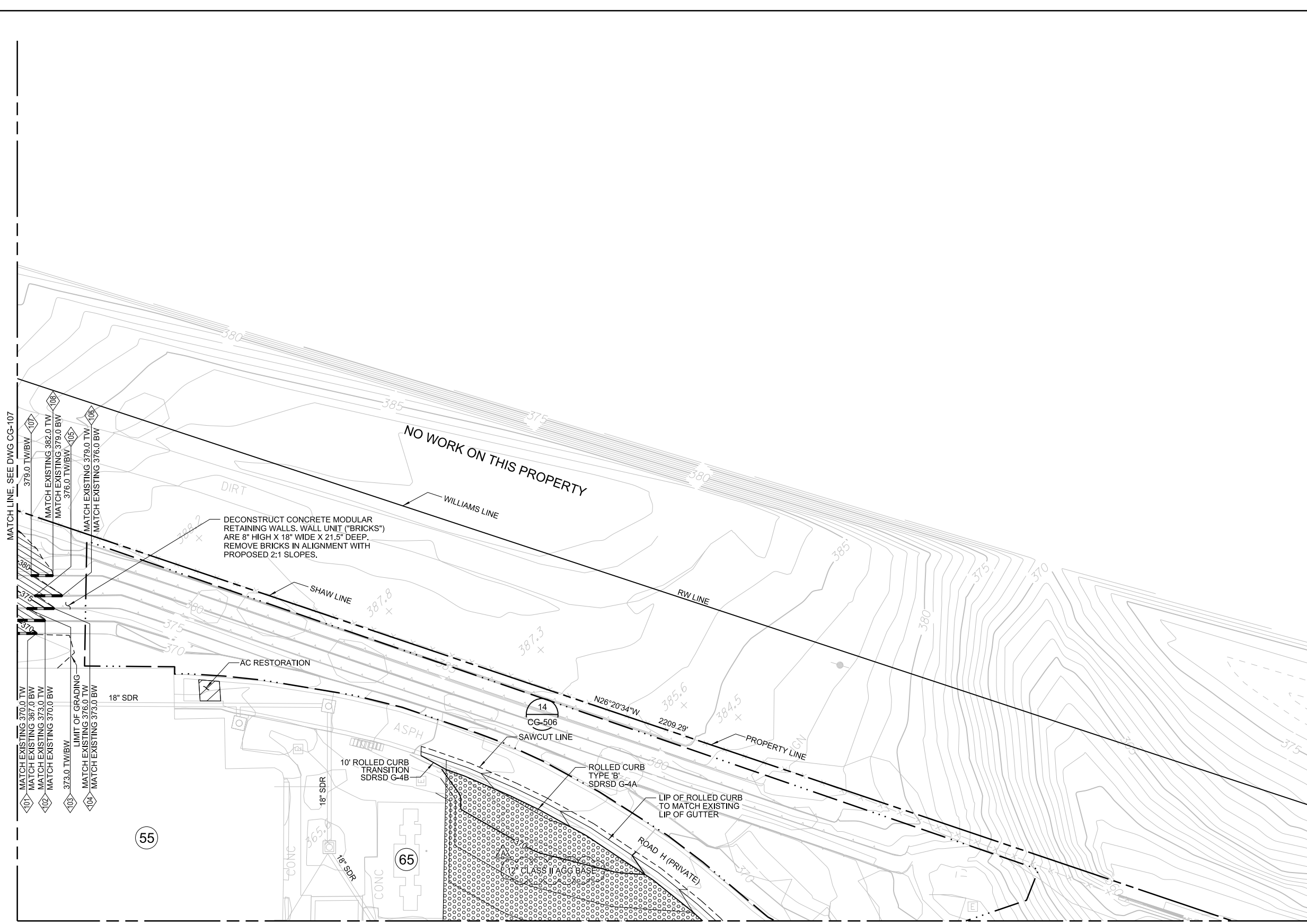
DIGITALLY SIGNED: 01/05/2021

WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



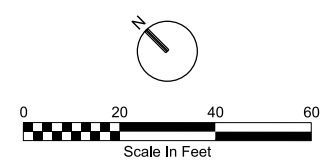
KEYPLAN
NTS

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	BEGIN WALL - MATCH EXISTING	1900542.20	6271045.38
102	END WALL - MATCH EXISTING	1900543.44	6271051.31
103	BEGIN WALL	1900551.84	6271049.59
104	END WALL - MATCH EXISTING	1900544.28	6271057.17
105	BEGIN WALL	1900553.21	6271055.30
106	END WALL - MATCH EXISTING	1900545.60	6271062.95
107	BEGIN WALL	1900559.81	6271059.93
108	END WALL - MATCH EXISTING	1900553.76	6271066.00



NOTES:

- SEE DWG Y-108 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
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- SEE DEMOLITION DETAILS ON DWG CX-108.



PK2-CG-108

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
SITE GRADING & LOCATION
PLAN - AREA 8

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 77 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020	SUBMITTED BY MONIKA SMOczynski PROJECT MANAGER
PRINT DCE NAME Andrea Demich	RCE# C70321	CHECKED BY THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED	DATE	FILM
		260-1709
		1900-6269
		40381-2077-D
CONTRACTOR	DATE STARTED	DATE COMPLETED
INSPECTOR		

CONSULTANT

O'Day
CONSULTANTS

2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
760-931-8680
OdayConsultants.com

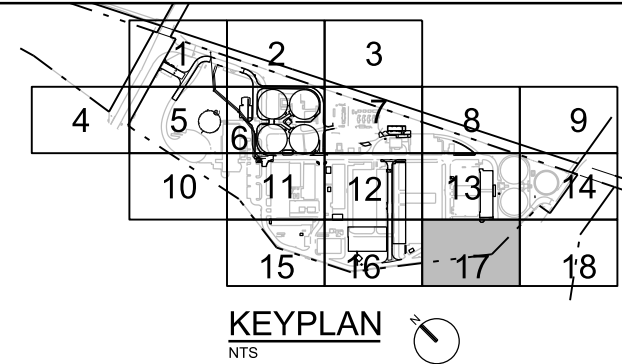
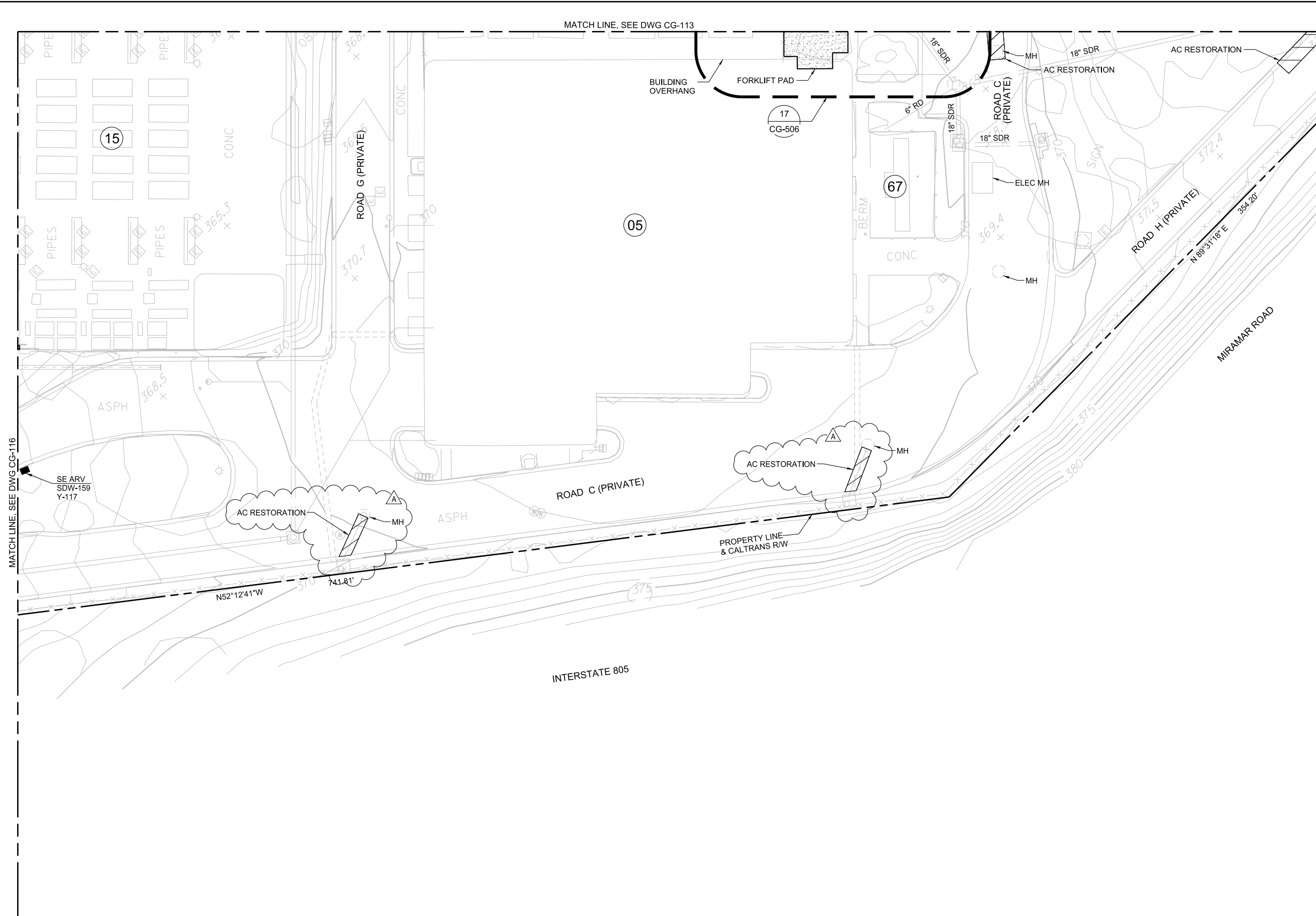
Civil Engineering
Planning
Processing
Surveying

REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
NO. 60223
Exp. 6-30-2022
CIVIL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 01/05/2021

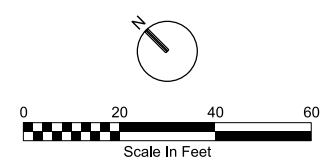
WARNING

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



- NOTES:**
- SEE DWG Y-117 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
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 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.



PK2-CG-117

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
SITE GRADING & LOCATION
PLAN - AREA 17

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 84 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i>	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER
FOR CITY ENGINEER	DATE: 07/03/21	CHANGED BY: THIEN-LONG TRAN PROJECT ENGINEER
PRINT DCE NAME: Andrea Demich	RCE#	260-1709
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Andrea Demich</i>
		DATE
		1/15/21
		FIRM
		1900-6269
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
		40381-2084-D

CONSULTANT

O'Day

CONSULTANTS

2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
Fax: 760-931-8680
OdayConsultants.com

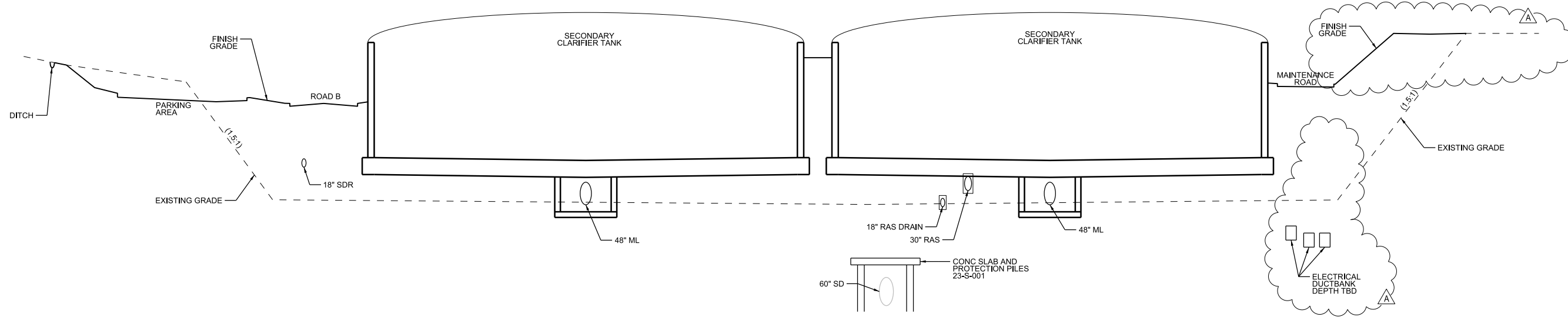
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DIGITALLY SIGNED: 01/05/2021

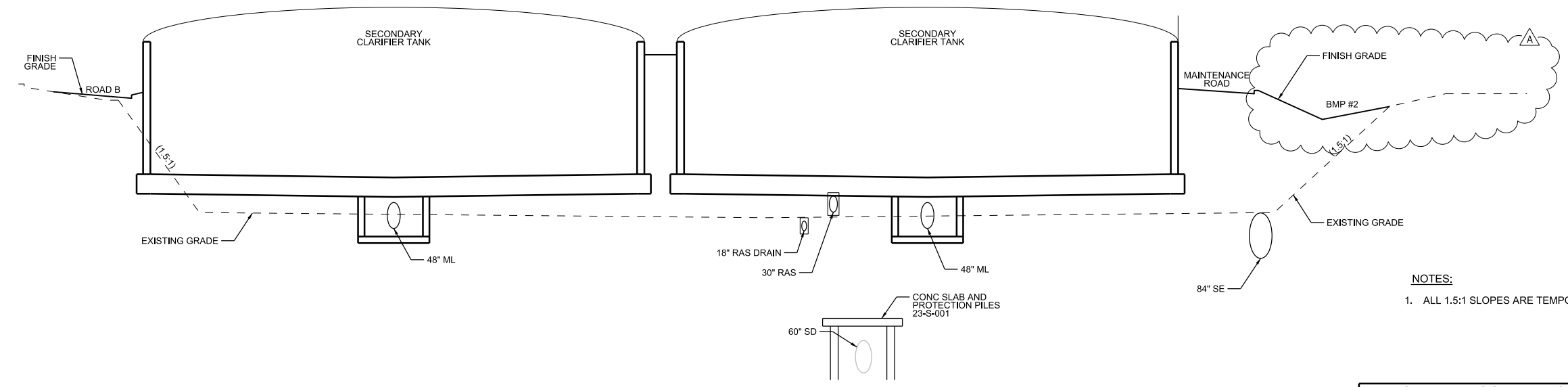
WARNING

0 1

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A SECTION: CLARIFIER TANK CONSTRUCTION PAD
 CG-106
 CG-107
 SCALE H: 1" = 20'
 V: 1" = 10'



B SECTION: CLARIFIER TANK CONSTRUCTION PAD
 CG-106
 CG-107
 SCALE H: 1" = 20'
 V: 1" = 10'

NOTES:
 1. ALL 1.5:1 SLOPES ARE TEMPORARY.

PK2-CG-507

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 2 - NORTH CITY WRP EXPANSION
**CIVIL
 SITE GRADING
 PLAN - DETAILS**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 91 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	RCE#: C70321	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Andrea Demich</i>
		DATE: 1/15/21
		FILM
		260-1709
		1900-6269
		CCS27 COORDINATE
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-2091-D
INSPECTOR	DATE COMPLETED	

CONSULTANT

O'Day
CONSULTANTS

2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
760-931-8680
Fax: 760-931-8680
O'DayConsultants.com

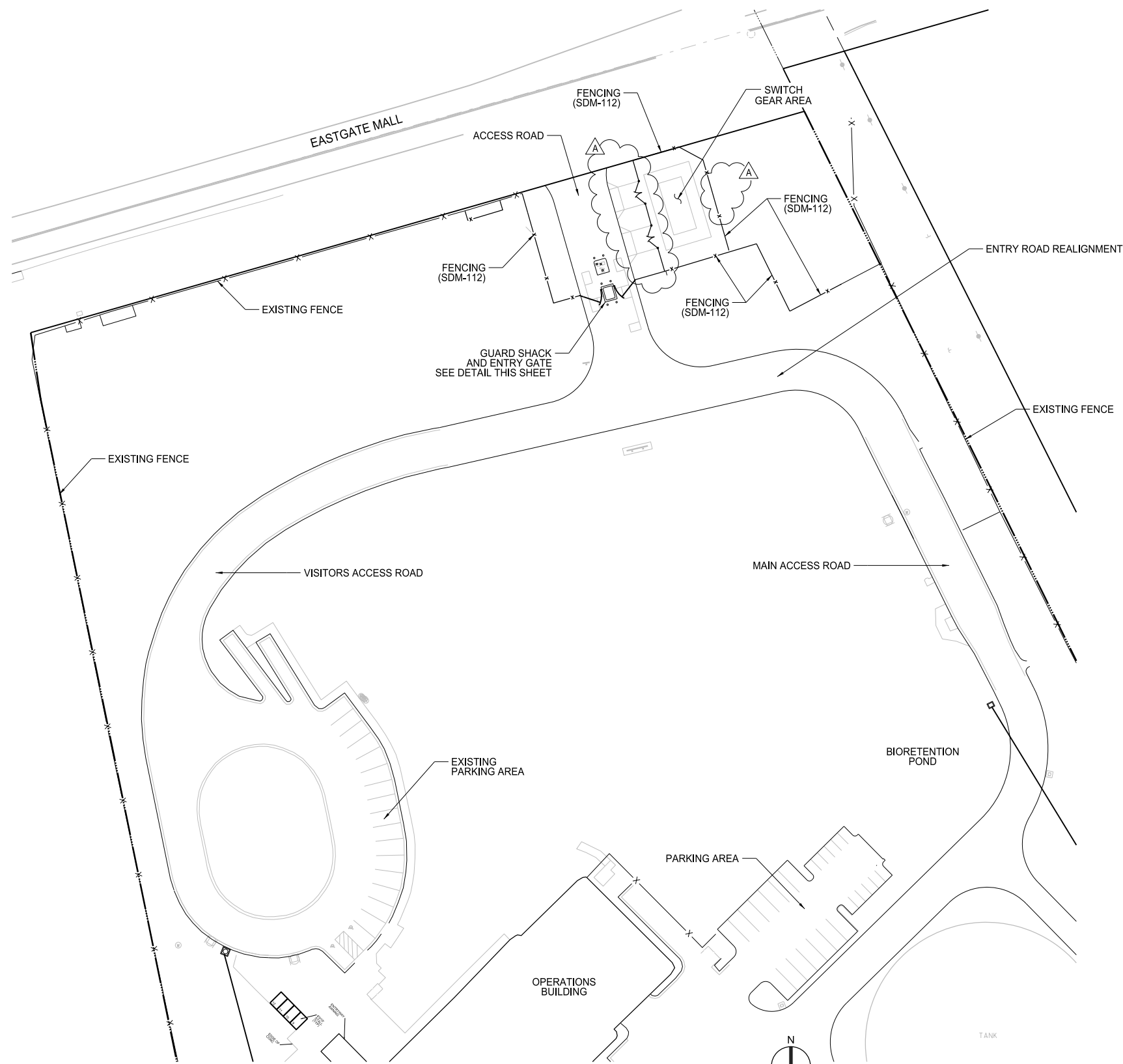
Civil Engineering
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Surveying

REGISTERED PROFESSIONAL ENGINEER
 KEITH W. HANSON
 NO. 60223
 EXP. 6-30-2020
 CIVIL
 STATE OF CALIFORNIA
 DIGITALLY SIGNED: 01/05/2021

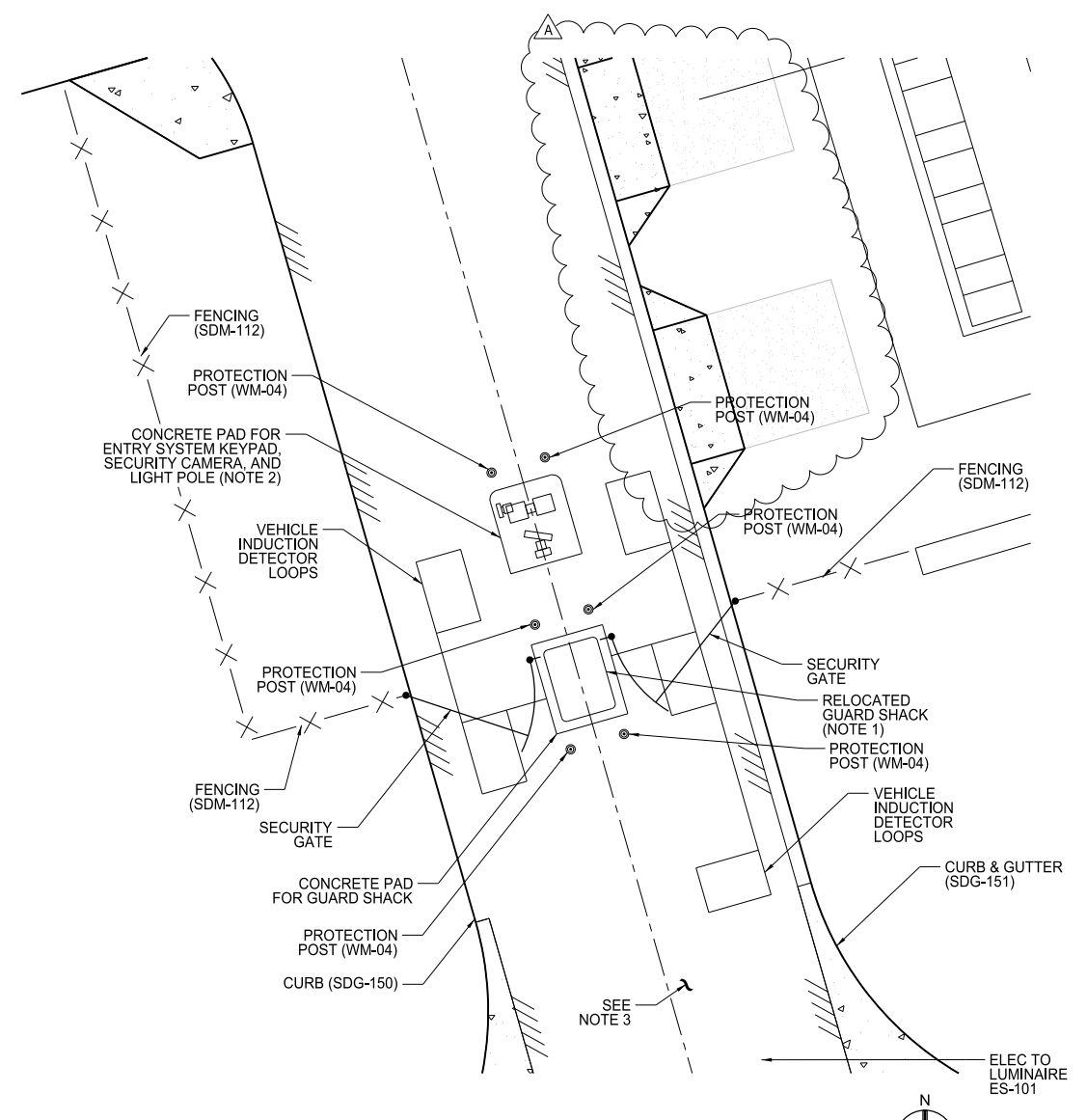
WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



18 FENCE AND GUARD SHACK
NOT TO SCALE
CG-101



19 GUARD SHACK DETAIL
NOT TO SCALE
CG-101

- NOTES:**
- INSTALL RELOCATED PORTA-KING PREFABRICATED STRUCTURE MODEL NUMBER RAD86DSL OR EQUAL.
 - RELOCATE ALL SECURITY SYSTEM FIXTURES (INCLUDING BUT NOT LIMITED TO: GOOSENECK PEDESTAL WITH KEY PAD ENTRY SYSTEM, LIGHT POLES AND LUMINAIRES, FIRE STROBE AND SURVEILLANCE CAMERA) PER ORIGINAL CONFIGURATION. COORDINATE INSTALLATION OF EXISTING AND POSSIBLE NEW EQUIPMENT WITH PLANT SECURITY DEPARTMENT.
 - SEE CG-511 FOR SIGNING & STRIPING PLAN.

PK2-CG-510

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL SITE GRADING PLAN - DETAILS

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 94 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020	PROJECT MANAGER MONIKA SMOCZYNSKI
PRINT DCE NAME Andrea Demich	RCE# C70321	PROJECT ENGINEER THIEN-LONG TRAN
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED	DATE	FIRM
		260-1709
		1900-6269
		40381-2094-D
CONTRACTOR	DATE STARTED	DATE COMPLETED
INSPECTOR		

CONSULTANT

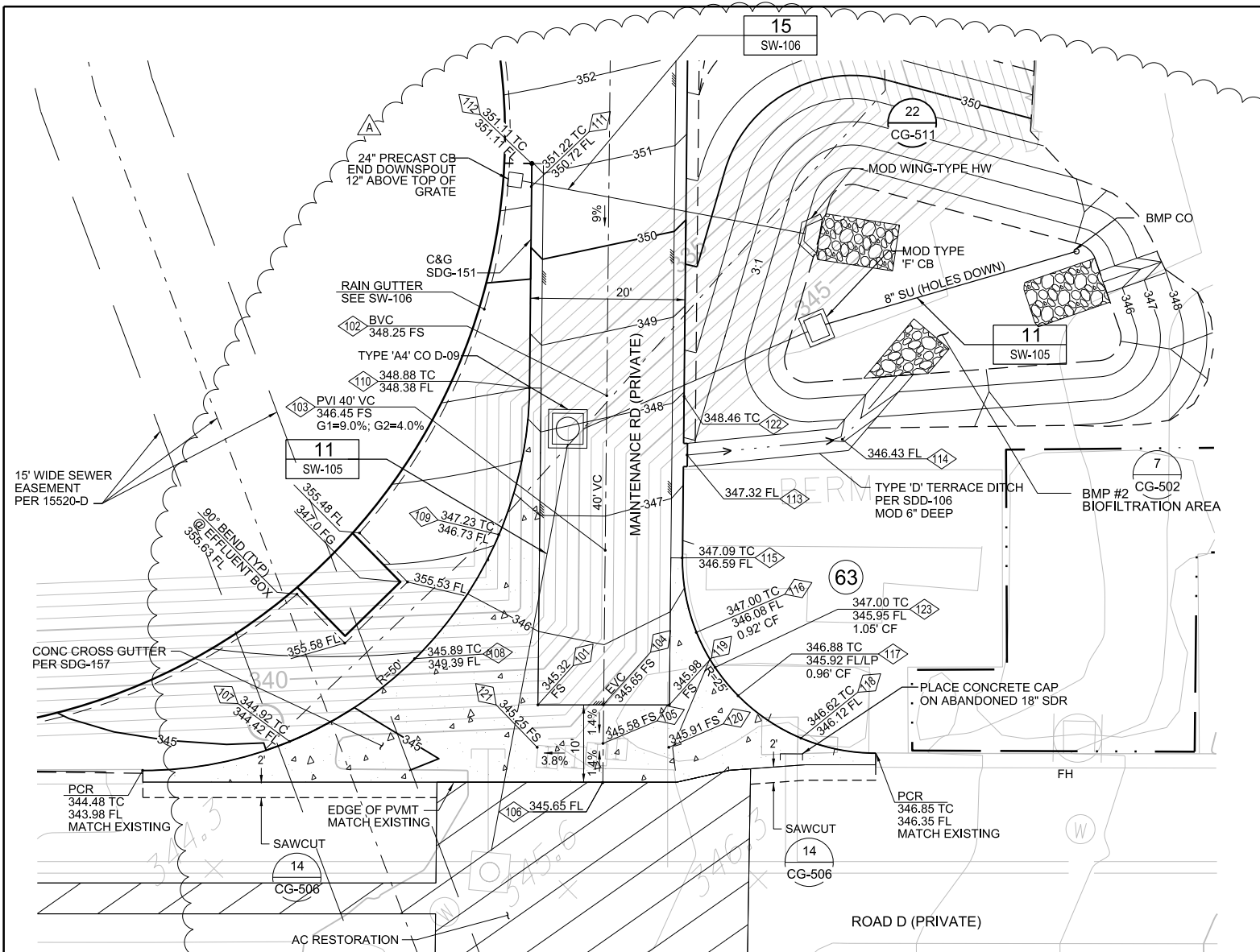
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Suite 100
Carlsbad, California 92010
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760-931-8680
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REGISTERED PROFESSIONAL ENGINEER
NO. 60223
SEP 6-20-2010
CIVIL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 01/05/2021

WARNING
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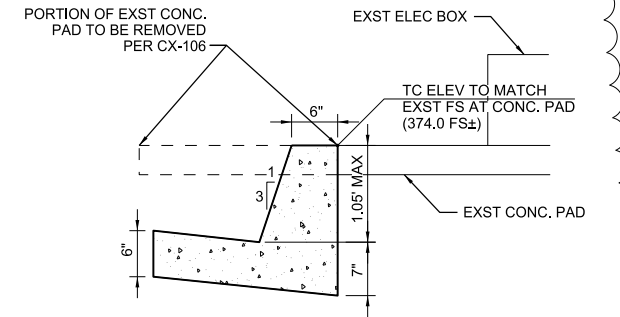


MAINTENANCE ROAD & ROAD D INTERSECTION DETAIL

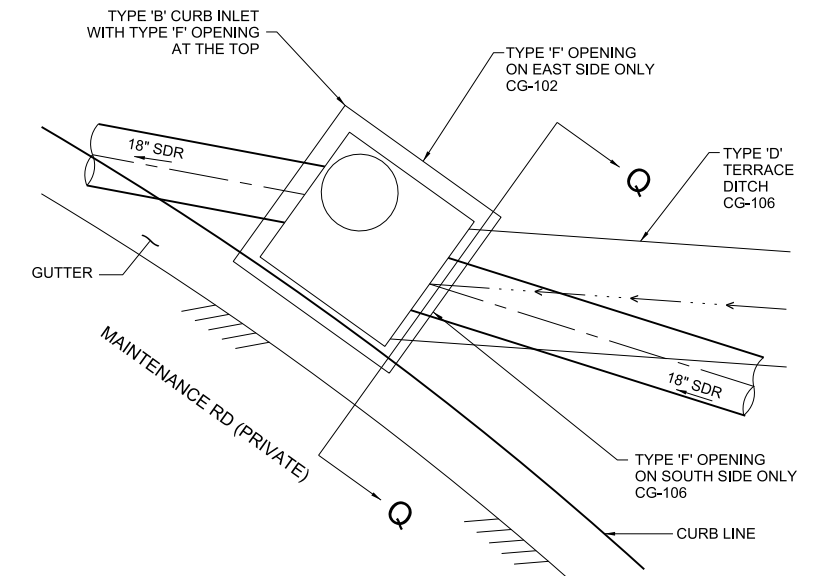
23
SCALE: 1" = 10'
CG-106
CG-107
CG-111
CG-112

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	LIP OF GUTTER - EDGE OF ROADWAY	1900843.94	6270580.78
102	BVC - ROADWAY CL	1900865.93	6270615.37
103	PVI - ROADWAY CL	1900851.93	6270601.08
104	EVC - ROADWAY CL & LIP OF GUTTER	1900837.93	6270586.79
105	GUTTER FL - ROADWAY CL	1900834.43	6270583.22
106	LIP OF GUTTER - END ROADWAY CL	1900830.93	6270579.65
107	TOP OF 6" C & G - 1/4 RETURN	1900863.27	6270554.76
108	TOP OF 6" C & G - 1/4 RETURN	1900859.41	6270573.76
109	TOP OF 6" C & G - 1/4 RETURN	1900863.07	6270592.79
110	PCR - C & G	1900873.70	6270609.01
111	END CURB TRANSITION (6" CURB)	1900891.92	6270627.61
112	BEGIN CURB & GUTTER (0" CURB)	1900894.02	6270629.76
113	3" CURB CUT - DITCH FL/GB	1900853.13	6270617.31
114	ANGLE POINT OF DITCH	1900840.35	6270632.94
115	PCR - 6" C & G	1900844.16	6270607.44
116	TOP OF C&G - 1/4 RETURN - MOD. CF HT*	1900836.05	6270601.92
117	TOP OF C&G - 1/4 RETURN - MOD. CF HT*	1900826.44	6270599.94
118	TOP OF 6" C & G - 1/4 RETURN	1900816.80	6270601.82
119	LIP OF GUTTER - EDGE OF ROADWAY	1900831.92	6270592.80
120	FL OF GUTTER	1900828.07	6270588.88
121	FL OF GUTTER	1900840.09	6270576.86
122	BEGIN CURB WARP	1900858.78	6270622.36
123	TOP OF MOD. C&G - BEGIN TRANS*	1900831.17	6270600.42

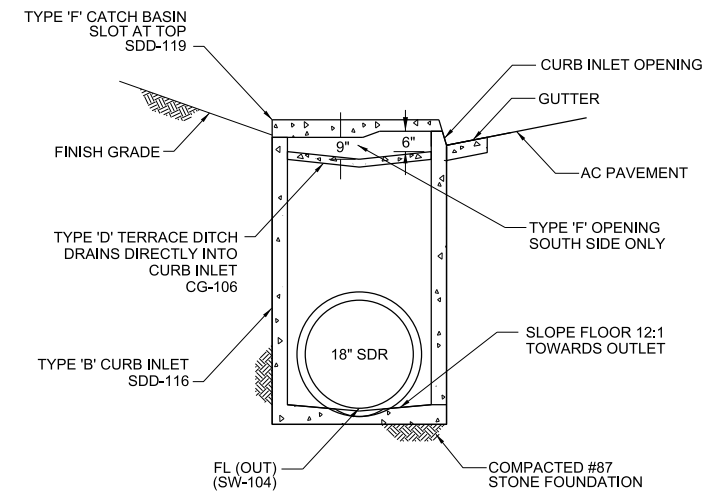
*SEE DETAIL 24 - MODIFIED CURB



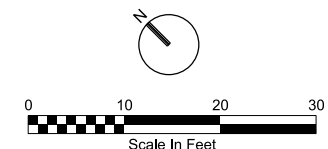
24 **MODIFIED CURB & GUTTER**
SCALE: NTS
CG-512



25 **MODIFIED TYPE 'B' CURB INLET WITH TYPE 'F' TOP**
SCALE: 1" = 10'
SDD-116, SDD-119
CG-106
SW-104



Q **SECTION Q-Q**
NOT TO SCALE



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DIGITALLY SIGNED: 01/05/2021

PK2-CG-512

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CIVIL SITE GRADING PLAN - DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 96 OF 1169 SHEETS

APPROVED: *Andrea Demich* DATE: 12/03/2020
FOR CITY ENGINEER: Andrea Demich DATE: C70321

PRINT DCE NAME: Andrea Demich RCE#

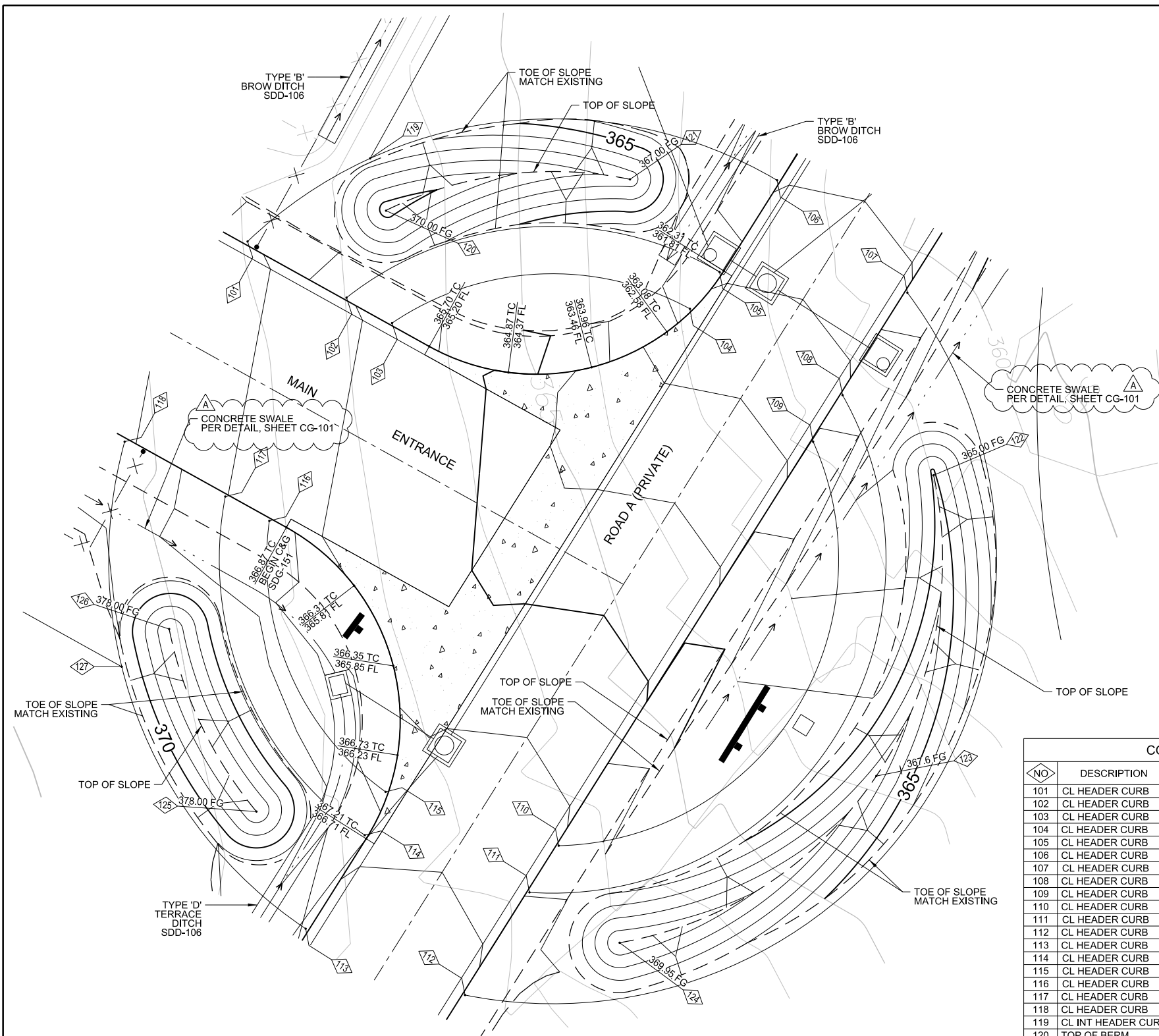
DESCRIPTION	BY	APPROVED	DATE	FIRM
Addendum A	CH	<i>Keith W. Hanson</i>	1/15/21	

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

MONIKA SMOCZYNSKI
PROJECT MANAGER
THIEN-LONG TRAN
PROJECT ENGINEER
260-1709
1900-6269
CCS27 COORDINATE
CCS83 COORDINATE

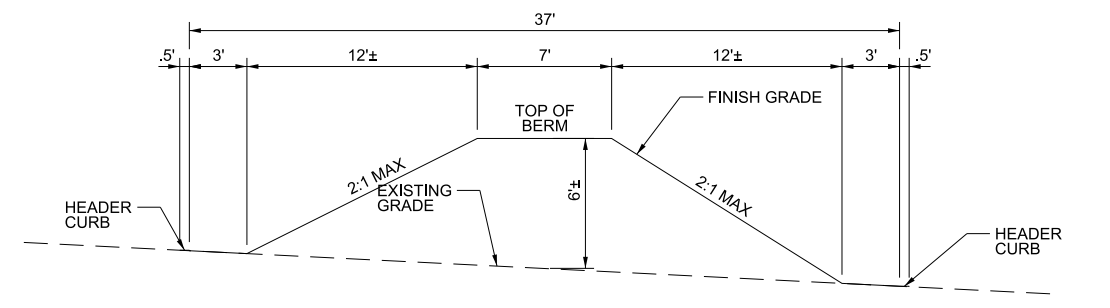
B-16149, S-17012
WBS B-15142

40381-2096-D



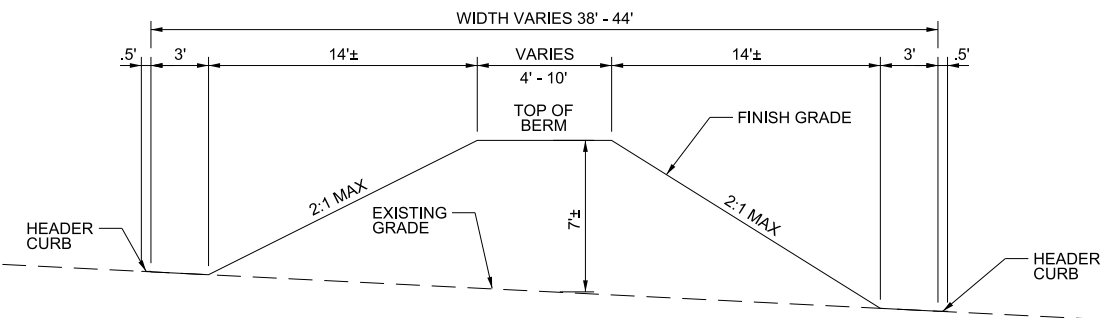
26
MAIN ENTRANCE ROAD & ROAD A ENTRY BERM GRADING DETAIL
 SCALE: 1" = 10'

CG-101
 CG-105



R
TYPICAL SECTION: LANDSCAPE BERM GRADING DETAIL
 SCALE: H: 1" = 10'
 V: 1" = 10'

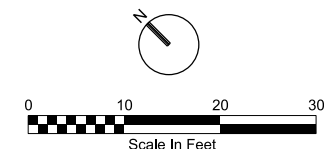
CG-105



S
TYPICAL SECTION: LANDSCAPE BERM GRADING DETAIL
 SCALE: H: 1" = 10'
 V: 1" = 10'

CG-105

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	CL HEADER CURB	1901688.50	6270364.99
102	CL HEADER CURB	1901671.14	6270369.78
103	CL HEADER CURB	1901663.21	6270372.02
104	CL HEADER CURB	1901631.48	6270406.94
105	CL HEADER CURB	1901632.30	6270414.38
106	CL HEADER CURB	1901636.10	6270431.08
107	CL HEADER CURB	1901608.95	6270433.08
108	CL HEADER CURB	1901604.73	6270414.37
109	CL HEADER CURB	1901602.82	6270405.86
110	CL HEADER CURB	1901586.10	6270332.21
111	CL HEADER CURB	1901584.15	6270323.71
112	CL HEADER CURB	1901579.87	6270305.01
113	CL HEADER CURB	1901605.11	6270294.61
114	CL HEADER CURB	1901608.98	6270311.68
115	CL HEADER CURB	1901611.48	6270318.86
116	CL HEADER CURB	1901654.81	6270336.16
117	CL HEADER CURB	1901662.46	6270333.96
118	CL HEADER CURB	1901679.86	6270328.84
119	CL INT HEADER CURB	1901684.09	6270387.99
120	TOP OF BERM	1901676.45	6270384.08
121	TOP OF BERM	1901652.67	6270414.73
122	TOP OF BERM	1901585.59	6270415.59
123	TOP OF BERM	1901558.36	6270375.54
124	TOP OF BERM	1901568.43	6270328.16
125	TOP OF BERM	1901623.73	6270302.21
126	TOP OF BERM	1901653.92	6270312.86
127	CL INT HEADER CURB	1901655.01	6270303.33



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REGISTERED PROFESSIONAL ENGINEER
 KETH W. HANSEN
 NO. 60223
 SEP 6-20-2002
 CIVIL
 STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/05/2021

WARNING

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PK2-CG-513

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CIVIL SITE GRADING PLAN - DETAILS

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC UTILITIES DEPARTMENT
 SHEET 97 OF 1169 SHEETS

APPROVED: *Andrea Demich* DATE: 12/03/2020
 FOR CITY ENGINEER: Andrea Demich DATE: C70321
 PRINT DCE NAME: RCE#

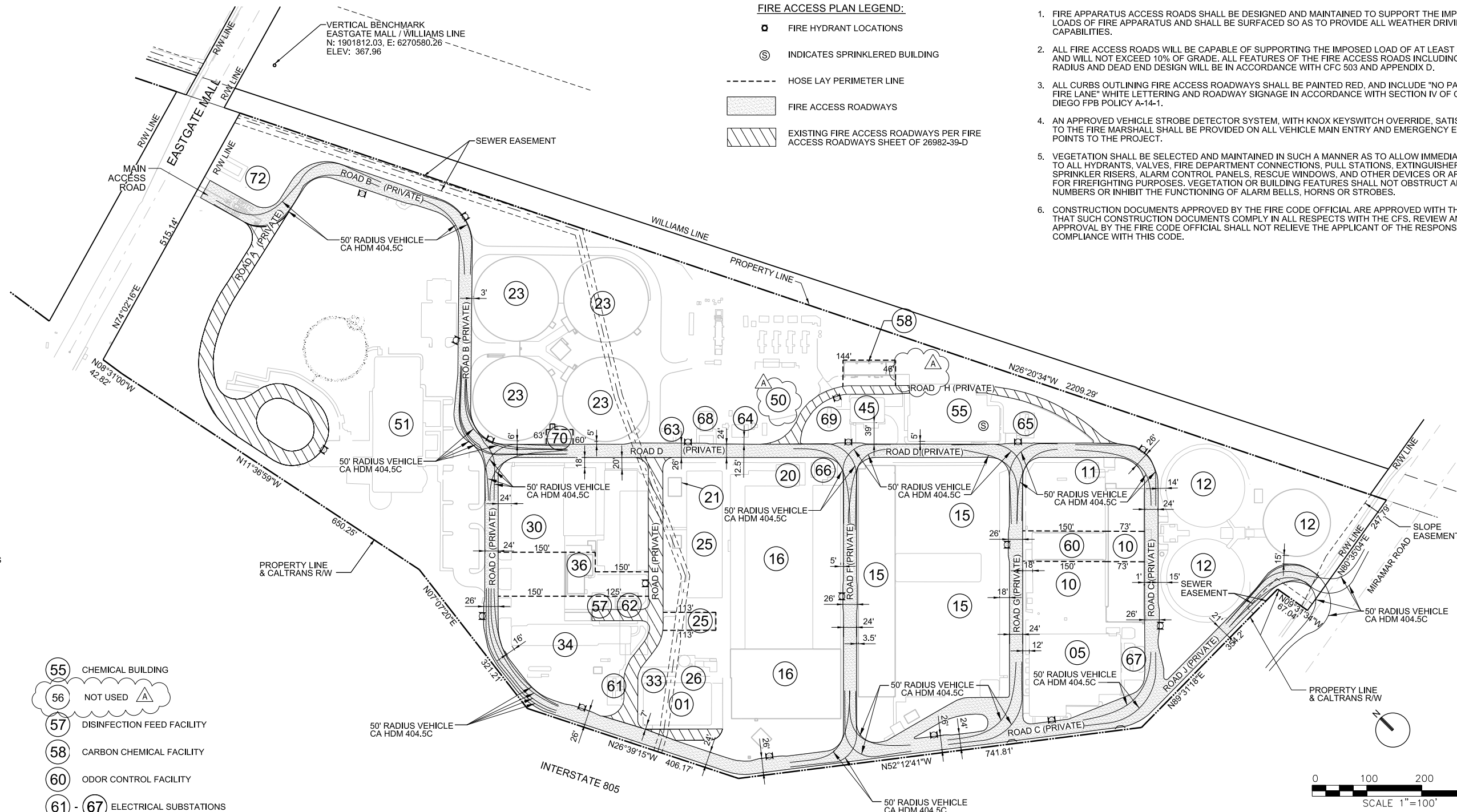
PROJECT MANAGER: **MONIKA SMOCZYNSKI**
 PROJECT ENGINEER: **THIEN-LONG TRAN**

DESCRIPTION	BY	APPROVED	DATE	FIRM
Addendum A	CH	<i>Andrea Demich</i>	1/15/21	

260-1709
 CCS27 COORDINATE
 1900-6269
 CCS83 COORDINATE

CONTRACTOR: _____ DATE STARTED: _____
 INSPECTOR: _____ DATE COMPLETED: _____

40381-2097-D



FIRE ACCESS PLAN LEGEND:

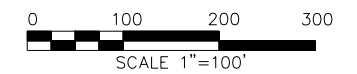
- FIRE HYDRANT LOCATIONS
- ⊙ INDICATES SPRINKLERED BUILDING
- - - HOSE LAY PERIMETER LINE
- ▨ FIRE ACCESS ROADWAYS
- ▩ EXISTING FIRE ACCESS ROADWAYS PER FIRE ACCESS ROADWAYS SHEET OF 26982-39-D

FIRE ACCESS PLAN NOTES:

1. FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS AND SHALL BE SURFACED SO AS TO PROVIDE ALL WEATHER DRIVING CAPABILITIES.
2. ALL FIRE ACCESS ROADS WILL BE CAPABLE OF SUPPORTING THE IMPOSED LOAD OF AT LEAST 75,000 LBS AND WILL NOT EXCEED 10% OF GRADE. ALL FEATURES OF THE FIRE ACCESS ROADS INCLUDING TURNING RADIUS AND DEAD END DESIGN WILL BE IN ACCORDANCE WITH CFC 503 AND APPENDIX D.
3. ALL CURBS OUTLINING FIRE ACCESS ROADWAYS SHALL BE PAINTED RED, AND INCLUDE "NO PARKING - FIRE LANE" WHITE LETTERING AND ROADWAY SIGNAGE IN ACCORDANCE WITH SECTION IV OF CITY OF SAN DIEGO FPB POLICY A-14-1.
4. AN APPROVED VEHICLE STROBE DETECTOR SYSTEM, WITH KNOX KEYSWITCH OVERRIDE, SATISFACTORY TO THE FIRE MARSHALL SHALL BE PROVIDED ON ALL VEHICLE MAIN ENTRY AND EMERGENCY ENTRY POINTS TO THE PROJECT.
5. VEGETATION SHALL BE SELECTED AND MAINTAINED IN SUCH A MANNER AS TO ALLOW IMMEDIATE ACCESS TO ALL HYDRANTS, VALVES, FIRE DEPARTMENT CONNECTIONS, PULL STATIONS, EXTINGUISHERS, SPRINKLER RISERS, ALARM CONTROL PANELS, RESCUE WINDOWS, AND OTHER DEVICES OR AREAS USED FOR FIREFIGHTING PURPOSES. VEGETATION OR BUILDING FEATURES SHALL NOT OBSTRUCT ADDRESS NUMBERS OR INHIBIT THE FUNCTIONING OF ALARM BELLS, HORNS OR STROBES.
6. CONSTRUCTION DOCUMENTS APPROVED BY THE FIRE CODE OFFICIAL ARE APPROVED WITH THE INTENT THAT SUCH CONSTRUCTION DOCUMENTS COMPLY IN ALL RESPECTS WITH THE CFS. REVIEW AND APPROVAL BY THE FIRE CODE OFFICIAL SHALL NOT RELIEVE THE APPLICANT OF THE RESPONSIBILITY OF COMPLIANCE WITH THIS CODE.

FACILITY LEGEND:

- 01 INFLUENT PUMP STATION
- 05 HEADWORKS
- 10 PRIMARY SEDIMENTATION TANKS
- 11 INTERMEDIATE PUMP STATION RAS PE MIXERS
- 12 FLOW EQUALIZATION BASINS
- 15 FIRST STAGE BIOREACTOR BASINS
- 16 SECOND STAGE BIOREACTOR BASINS
- 20 BIOREACTOR/FILTER SUPPORT FACILITY
- 21 FILTER INFLUENT STRUCTURE
- 23 SECONDARY CLARIFIERS
- 25 TERTIARY FILTERS
- 26 WASTE BACKWASH TANK
- 30 CHLORINE CONTACT BASIN
- 33 EFFLUENT DROP STRUCTURE
- 34 EFFLUENT PUMP STATION
- 36 NCPWF INFLUENT PUMP STATION
- 45 BLENDED SLUDGE PUMP STATION
- 50 STORMWATER PUMP STATION
- 51 OPERATIONS BUILDING
- 55 CHEMICAL BUILDING
- 56 NOT USED
- 57 DISINFECTION FEED FACILITY
- 58 CARBON CHEMICAL FACILITY
- 60 ODOR CONTROL FACILITY
- 61 - 67 ELECTRICAL SUBSTATIONS
- 64B NOT USED
- 68 ELECTRICAL MAIN PLANT SWITCHGEAR
- 69 ELECTRICAL SWITCHGEAR SUBSTATION
- 70 SECONDARY CLARIFIER ELECTRICAL BUILDING
- 72 ELECTRICAL SWITCHGEAR



PK2-CG-516

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
SITE GRADING & LOCATION PLAN
FIRE ACCESS PLAN

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 100 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142		
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER DATE 12/03/2020 PRINT DCE NAME: Andrea Demich RCE# C70321	NO. 60223 DATE 6-30-2023 CIVIL STATE OF CALIFORNIA DIGITALLY SIGNED: 01/05/2021	MONIKA SMOCZYNSKI PROJECT MANAGER THIEN-LONG TRAN PROJECT ENGINEER 260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE		
DESCRIPTION	BY	APPROVED	DATE	FIRM
▲ Addendum A	WL	<i>Andrea Demich</i>	1/15/21	
CONTRACTOR		DATE STARTED		40381-2100-D
INSPECTOR		DATE COMPLETED		

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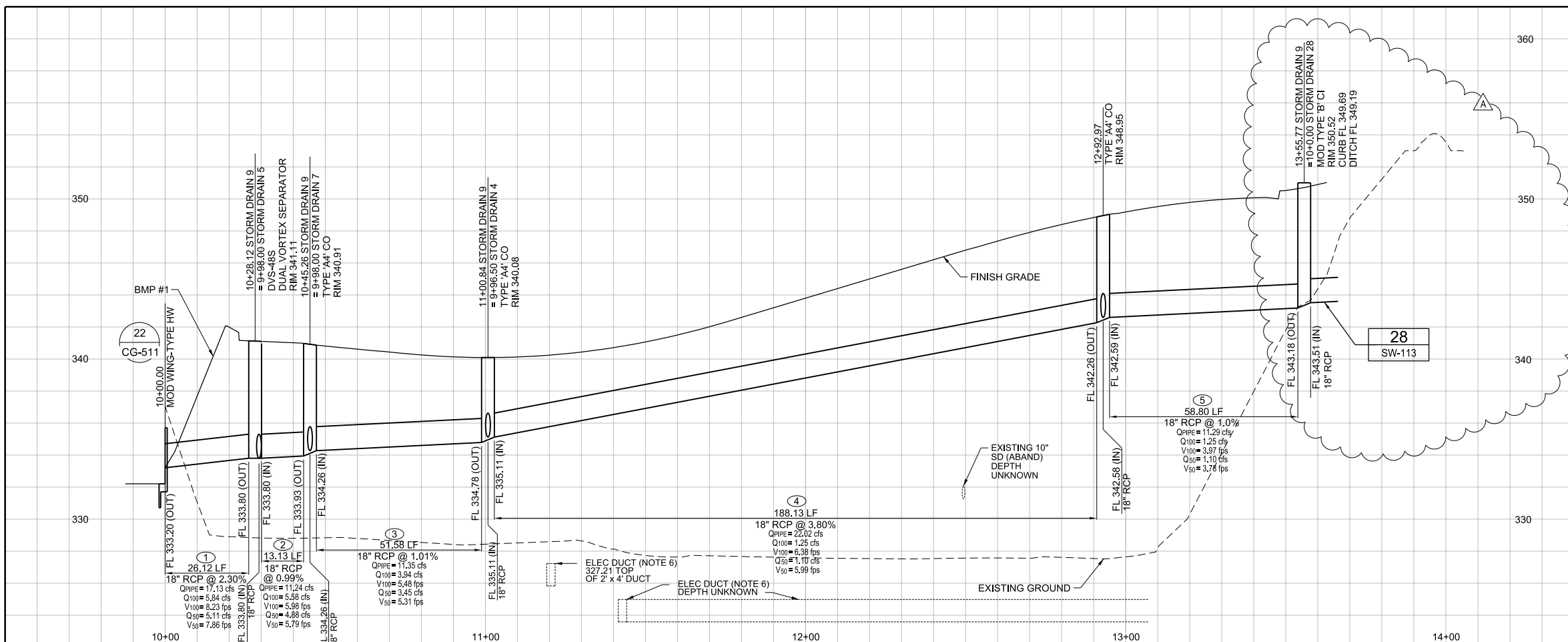
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NOTES:

- SEE DWGS Y-102 AND Y-106 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
- GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
- THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
- THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
- EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
- SEE DWGS CG-102 AND CG-106 FOR GRADING PLANS.

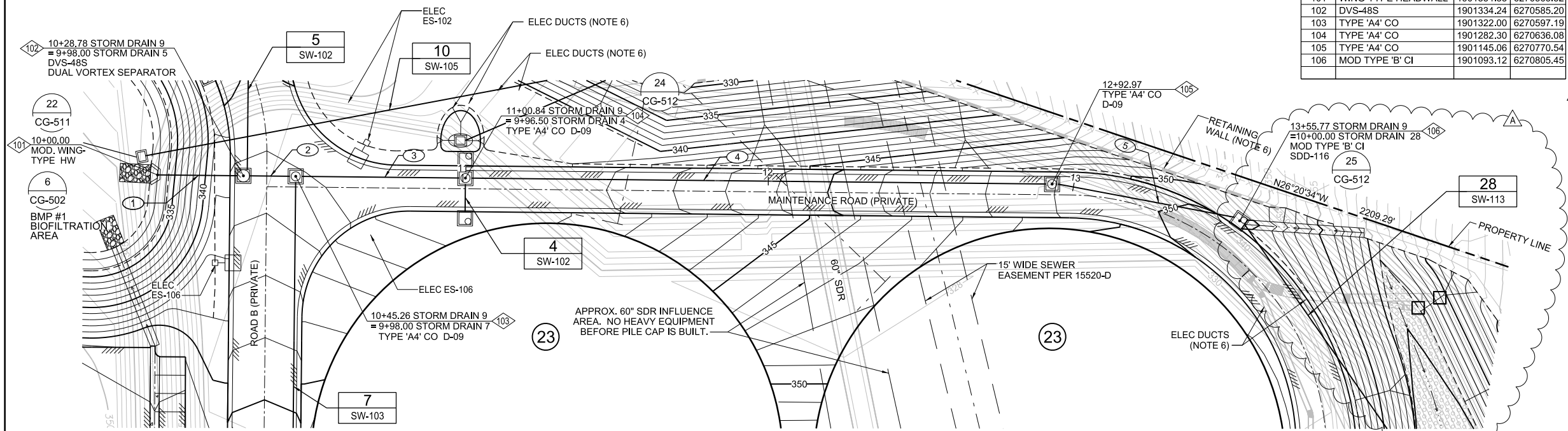


SCALE
1"=20' HORIZ.
1"=4' VERT.

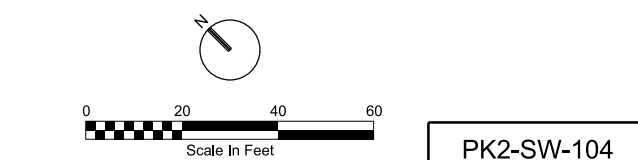
PROFILE - STORM DRAIN '9'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

NO.	DESCRIPTION	NORTHING	EASTING
101	WING-TYPE HEADWALL	1901354.33	6270565.52
102	DVS-48S	1901334.24	6270585.20
103	TYPE 'A4' CO	1901322.00	6270597.19
104	TYPE 'A4' CO	1901282.30	6270636.08
105	TYPE 'A4' CO	1901145.06	6270770.54
106	MOD TYPE 'B' CI	1901093.12	6270805.45

STORM DRAIN PIPE DATA				
NO.	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 44°24'50" W	----	26.12'	18" RCP - D-1350
2	N 44°24'50" W	----	13.13'	" " " "
3	N 44°24'50" W	----	51.58'	" " " "
4	N 44°24'50" W	----	188.13'	" " " "
5	N 34°21'39" W	----	58.80'	" " " "



PLAN - STORM DRAIN '9'
SCALE: 1" = 20'



PK2-SW-104

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL STORM DRAINAGE PLAN AND PROFILE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 106 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C70321	SUBMITTED BY MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME	RCE#	CHIEF ENGINEER THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED	DATE	FIRM 260-1709
		CCS27 COORDINATE 1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-2106-D
INSPECTOR	DATE COMPLETED	

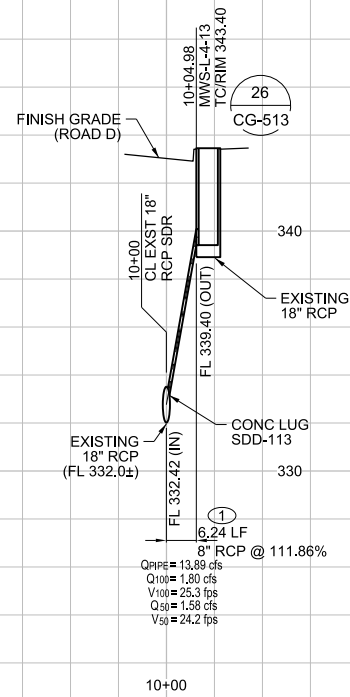
WARNING
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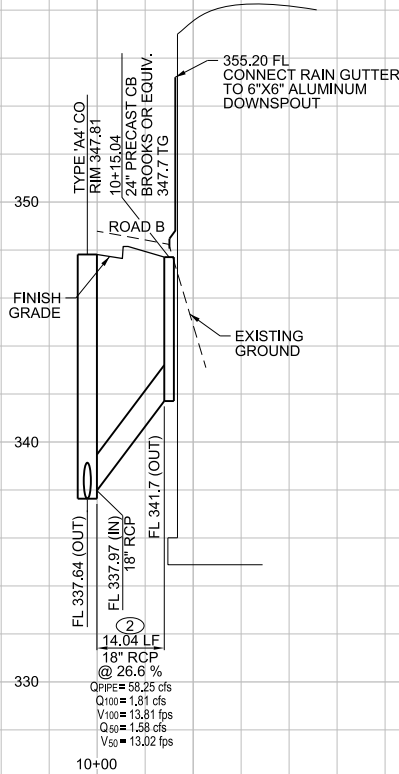
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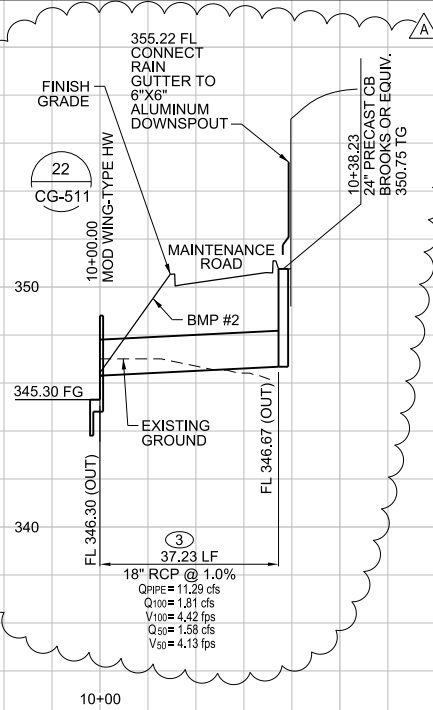
DIGITALLY SIGNED: 01/05/2021



PROFILE - STORM DRAIN '12'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'



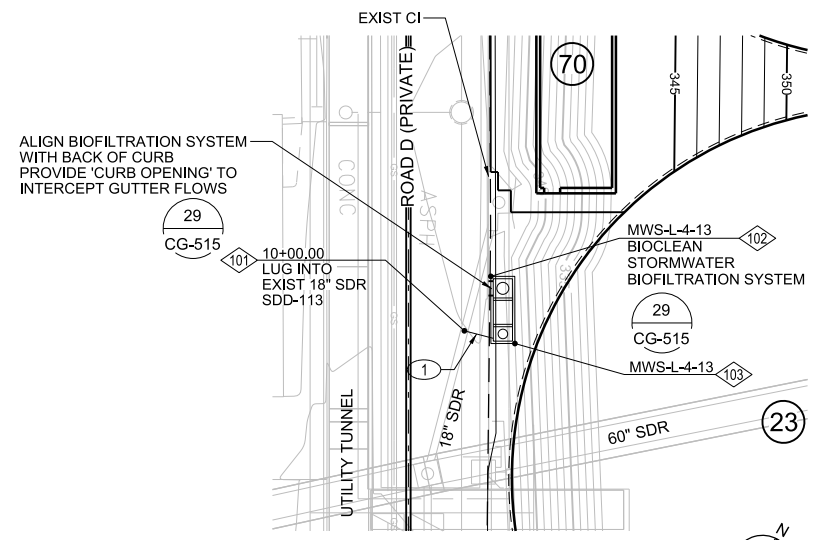
PROFILE - STORM DRAIN '14'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'



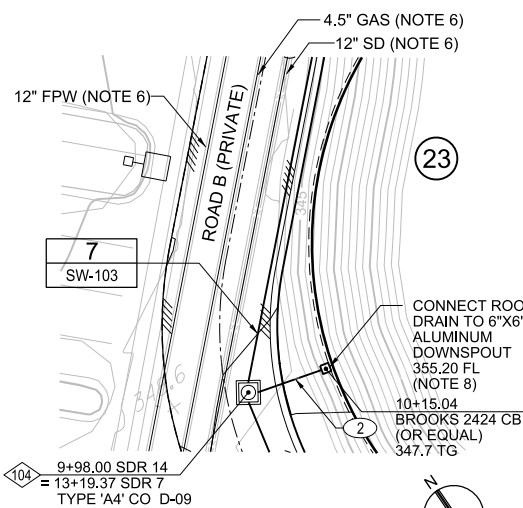
PROFILE - STORM DRAIN '15'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

- NOTES:**
- SEE DWGS Y-101, Y-102, Y-106 AND Y-107 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
 - GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
 - THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DWGS CG-101, CG-102, CG-106 AND CG-107 FOR GRADING PLANS.
 - PLACE DOWNSPOUT CONNECTION DIRECTLY ABOVE 24" CATCH BASIN

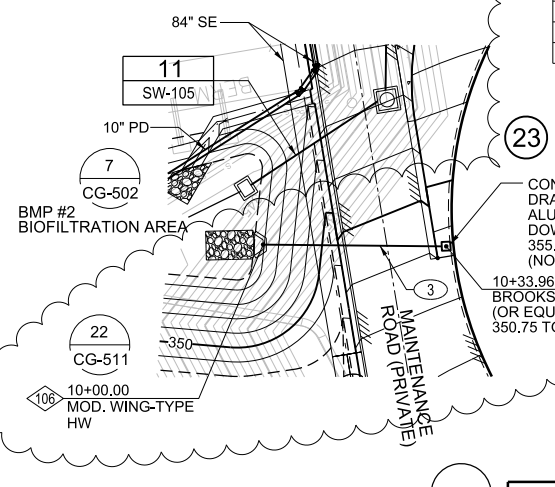
SCALE
1"=20' HORIZ.
1"=4' VERT.



PLAN - STORM DRAIN '12'
SCALE: 1" = 20'



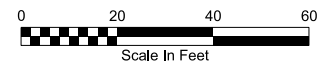
PLAN - STORM DRAIN '14'
SCALE: 1" = 20'



PLAN - STORM DRAIN '15'
SCALE: 1" = 20'

STORM DRAIN PIPE DATA				
NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 59°32'55" E	—	6.24'	8" RCP - D-1350
2	N 74°49'36" W	—	14.04'	18" RCP - D-1350
3	N 34°26'13" W	—	37.23'	" " "

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	LUG INTO EXISTING	1900914.21	6270492.63
102	NW CORNER OF STRUCTURE	1900925.75	6270487.87
103	SE CORNER OF STRUCTURE	1900919.41	6270501.31
104	TYPE 'A4' CO	1901096.90	6270368.03
105	24" CATCH BASIN	1901091.80	6270384.14
106	WING-TYPE HEADWALL	1900862.61	6270648.33
107	24" CATCH BASIN	1900894.09	6270626.74



PK2-SW-106

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL STORM DRAINAGE PLAN AND PROFILE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 108 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C70321	PROJECT MANAGER MONIKA SMOCZYNSKI
PRINT DCE NAME Andrea Demich	RCE#	PROJECT ENGINEER THIEN-LONG TRAN
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED [Signature]	DATE 1/15/21	FIRM 260-1709
DATE STARTED		COORDINATE CCS27 COORDINATE 1900-6269
DATE COMPLETED		COORDINATE CCS83 COORDINATE 40381-2108-D

CONSULTANT

O'Day CONSULTANTS

2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
760-931-8680
Fax: 760-931-8680
O'DayConsultants.com

Civil Engineering
Planning
Processing
Surveying

REGISTERED PROFESSIONAL ENGINEER
KETH W. HANSEN
NO. 60223
DATE 06-26-2003
CIVIL
STATE OF CALIFORNIA

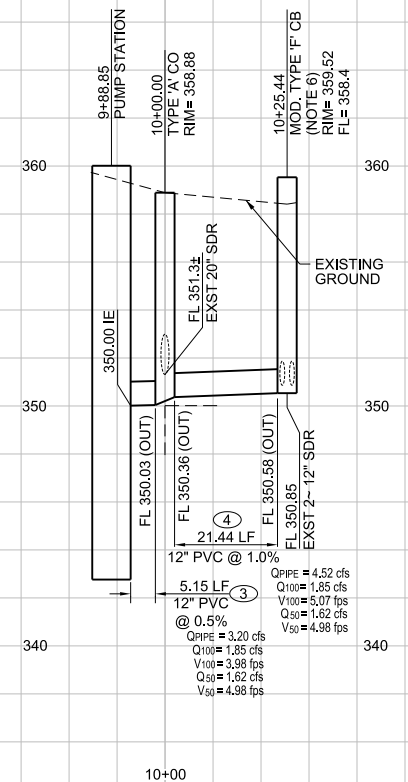
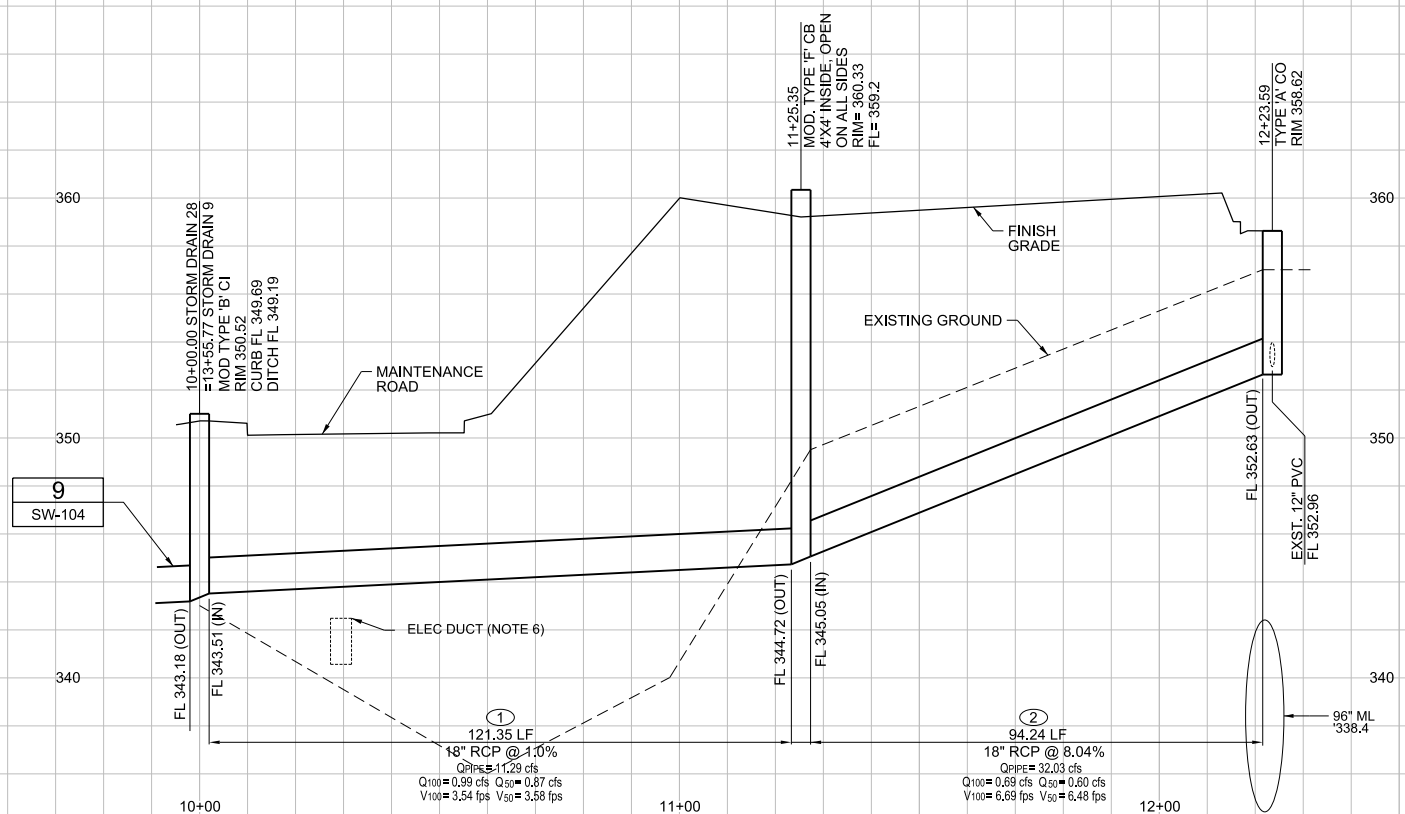
DIGITALLY SIGNED: 01/05/2021

CONTRACTOR
INSPECTOR

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

- NOTES:**
- SEE DWGS Y-101, Y-102 AND Y-106 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
 - GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
 - THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DWGS CG-106 AND CG-107 FOR GRADING PLANS.



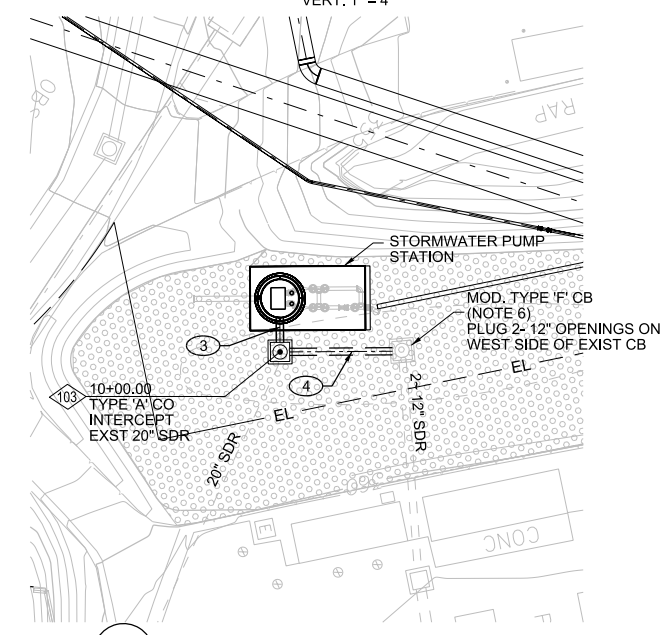
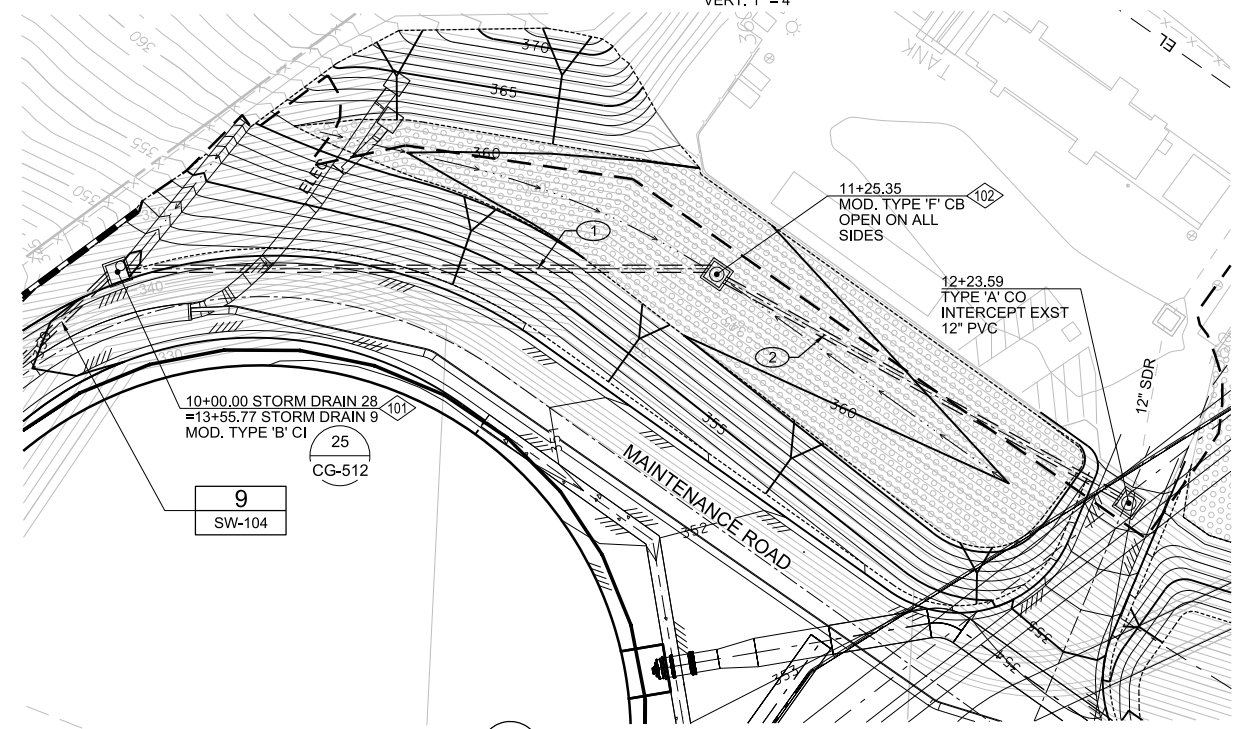
SCALE
1"=20' HORIZ.
1"=4' VERT.

STORM DRAIN PIPE DATA

NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 10°05'31" E	—	121.35'	18" RCP - D-1350
2	N 38°53'43" E	—	94.24'	" " "
3	N 56°11'26" E	—	5.15'	12" PVC
4	N 33°48'34" W	—	21.44'	" " "

COORDINATE TABLE

NO	DESCRIPTION	NORTHING	EASTING
101	MOD. TYPE 'B' CI	1901093.12	6270805.45
102	MOD. TYPE 'F' CB	1900970.27	6270783.10
103	TYPE 'A' CO	1900728.88	6270832.61
104			
105			
106			
107			
108			



CONSULTANT

O'Day
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2710 Loker Avenue West
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Carlsbad, California 92010
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OdayConsultants.com

Civil Engineering
Planning
Processing
Surveying

REGISTERED PROFESSIONAL ENGINEER
KETH W. HANSEN
NO. 60223
DATE 6-30-2022
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/05/2021

CONTRACTOR
INSPECTOR

APPROVED: *Andrea Demich*
FOR CITY ENGINEER
DATE: 12/03/2020
DATE: 07/03/21
RCE#

12/03/2020
07/03/21

DATE STARTED
DATE COMPLETED

PK2-SW-113

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION

**CIVIL
STORM DRAINAGE
PLAN AND PROFILE**

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 114A OF 1169 SHEETS

B-16149, S-17012
WBS B-15142

APPROVED: *Andrea Demich*
FOR CITY ENGINEER
DATE: 12/03/2020
DATE: 07/03/21
RCE#

12/03/2020
07/03/21

DATE STARTED
DATE COMPLETED

40381-2114-D

GENERAL NOTES

SEE VOLUME 14 FOR ALL APPLICABLE CITY OF SAN DIEGO STANDARD DETAILS

SEE SHEET L-501 FOR PLANTING LEGEND, GRAPHIC SYMBOLS

TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403()(10).

A MINIMUM ROOT ZONE OF 40 SF IN AREA SHALL BE PROVIDED FOR ALL TREES. A MINIMUM DIMENSION FOR THIS AREA SHALL BE 5 FEET SDMC 142.0403()(5).

TREE ROOT BARRIERS SHALL BE INSTALLED WHERE TREES ARE PLACED WITHIN 5' (FEET) OF PUBLIC IMPROVEMENTS INCLUDING WALKS, CURBS, OR STREET PAVEMENTS, OR WHERE NEW PUBLIC IMPROVEMENTS ARE PLACED ADJACENT TO EXISTING TREES. THE ROOT BARRIER WILL NOT WRAP AROUND THE ROOT BALL.

IF ANY REQUIRED LANDSCAPE INDICATED ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPLACED IN KIND AND OF EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF DAMAGE. REPLACEMENT SHALL BE AT CONTRACTORS EXPENSE (NO EXPENSE TO OWNER).

MINIMUM TREE SEPARATION DISTANCE

TRAFFIC SIGNALS/STOP SIGNS - 20 FEET

UNDERGROUND UTILITY LINES, DRIVEWAY APRON FLARE - 5 FEET

SEWER LINES - 10 FEET

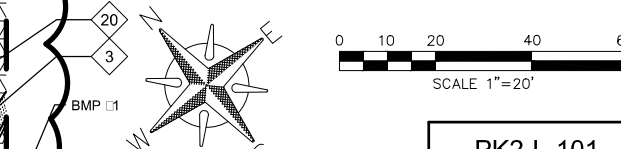
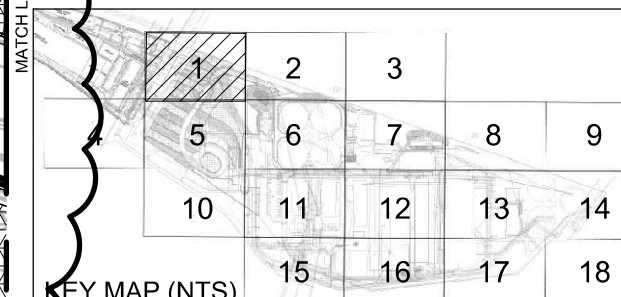
ABOVE GROUND UTILITY STRUCTURES - 10 FEET

DRIVEWAY ENTRIES - 10 FEET

INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET

ROOT BARRIER - NOTE: FOR PLAN CLARITY, ROOT BARRIERS MAY BE SHOWN OUTSIDE OF PLANTING AREA. WHERE THIS OCCURS ON PLAN, ROOT BARRIER FOR CONSTRUCTION PURPOSES TO BE PLACED AT INSIDE FACE OF CURB PER DETAIL.

CALL DIG ALERT BEFORE ANY TRENCHING



PK2-L-101

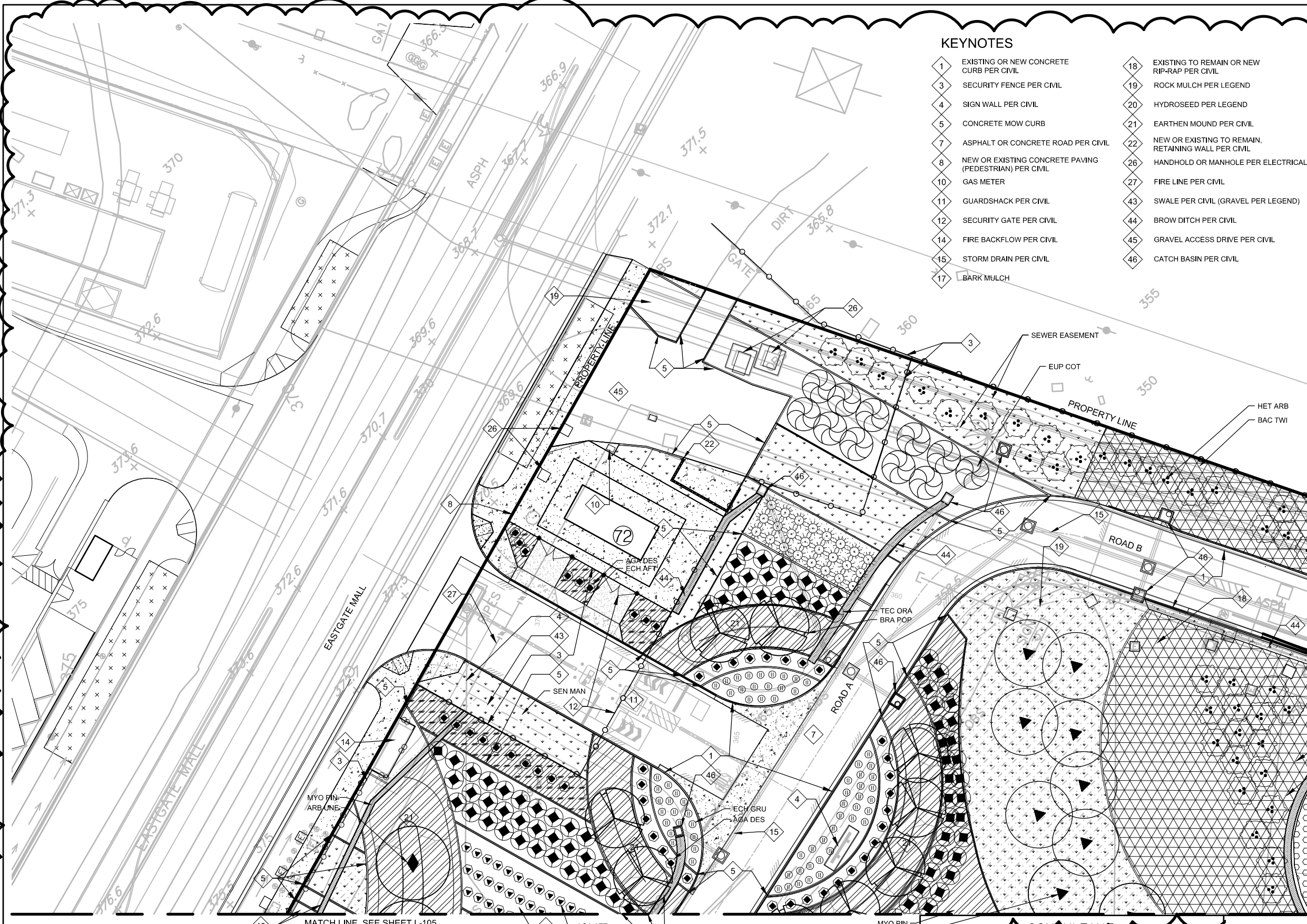
NCPWR EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE PLANTING PLAN - AREA 1

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 116 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER ANDREA DEMICH	DATE 12/03/2020 C70321	SUBMITTED BY MONIKA SMOczynski PROJECT MANAGER
PRINT DDC NAME ANDREA DEMICH	RCE#	CHANGED BY THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	APPROVED [Signature]
		DATE FILM 1/15/21
		260-1709 CCS27 COORDINATE
		1900-6269 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-20112-0
INSPECTOR	DATE COMPLETED	

KEYNOTES

- | | |
|--|--|
| 1 EXISTING OR NEW CONCRETE CURB PER CIVIL | 18 EXISTING TO REMAIN OR NEW RIP-RAP PER CIVIL |
| 3 SECURITY FENCE PER CIVIL | 19 ROCK MULCH PER LEGEND |
| 4 SIGN WALL PER CIVIL | 20 HYDROSEED PER LEGEND |
| 5 CONCRETE MOW CURB | 21 EARTHEN MOUND PER CIVIL |
| 7 ASPHALT OR CONCRETE ROAD PER CIVIL | 22 NEW OR EXISTING TO REMAIN, RETAINING WALL PER CIVIL |
| 8 NEW OR EXISTING CONCRETE PAVING (PEDESTRIAN) PER CIVIL | 26 HANDHOLD OR MANHOLE PER ELECTRICAL |
| 10 GAS METER | 27 FIRE LINE PER CIVIL |
| 11 GUARDSHACK PER CIVIL | 43 SWALE PER CIVIL (GRAVEL PER LEGEND) |
| 12 SECURITY GATE PER CIVIL | 44 BROW DITCH PER CIVIL |
| 14 FIRE BACKFLOW PER CIVIL | 45 GRAVEL ACCESS DRIVE PER CIVIL |
| 15 STORM DRAIN PER CIVIL | 46 CATCH BASIN PER CIVIL |
| 17 BARK MULCH | |



VEGETATION SHALL BE SELECTED AND MAINTAINED IN SUCH A MANNER AS TO ALLOW IMMEDIATE ACCESS TO FIRE HYDRANTS, VALVES, FIRE DEPARTMENT CONNECTIONS, PULL STATIONS, EXTINGUISHERS, SPRINKLER RISERS, ALARM CONTROL PANELS, RESCUE WINDOWS, AND OTHER DEVICES OR AREAS USED FOR FIREFIGHTING PURPOSES. VEGETATION OR BUILDING FEATURES SHALL NOT OBSTRUCT ADDRESS NUMBERS OR INHIBIT THE FUNCTIONING OF ALARM BELLS, HORNS, OR STROBES.

SEE PK2-L-502 FOR DECORATIVE ROCK AND BARK MULCH LOCATIONS AND DESCRIPTIONS.

NOTE: PLEASE REFER TO THE GRADING PLANS FOR FINISH GRADE ELEVATIONS

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MARUM PARTNERSHIP
10680 TREENA STREET SUITE 100
SAN DIEGO, CA 92131
PHONE: 619-992-9533



DIGITALLY SIGNED: 01/06/2021

GENERAL NOTES

SEE VOLUME 14 FOR ALL APPLICABLE CITY OF SAN DIEGO STANDARD DETAILS

SEE SHEET L-501 FOR PLANTING LEGEND, GRAPHIC SYMBOLS

TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403()(10).

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IF ANY REQUIRED LANDSCAPE INDICATED ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPLACED IN KIND AND OF EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF DAMAGE. REPLACEMENT SHALL BE AT CONTRACTORS EXPENSE (NO EXPENSE TO OWNER).

MINIMUM TREE SEPARATION DISTANCE

TRAFFIC SIGNALS/STOP SIGNS - 20 FEET

UNDERGROUND UTILITY LINES, DRIVEWAY APRON FLARE - 5 FEET

SEWER LINES - 10 FEET

ABOVE GROUND UTILITY STRUCTURES - 10 FEET

DRIVEWAY ENTRIES - 10 FEET

INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET

--- ROOT BARRIER - NOTE: FOR PLAN CLARITY, ROOT BARRIERS MAY BE SHOWN OUTSIDE OF PLANTING AREA. WHERE THIS OCCURS ON PLAN, ROOT BARRIER FOR CONSTRUCTION PURPOSES TO BE PLACED AT INSIDE FACE OF CURB PER DETAIL.

KEYNOTES

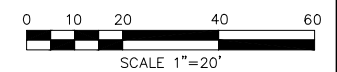
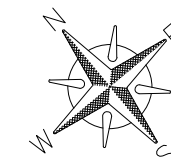
- 1 EXISTING OR NEW CONCRETE CURB PER CIVIL
- 3 SECURITY FENCE PER CIVIL
- 15 STORM DRAIN PER CIVIL
- 16 STORMWATER STRUCTURE PER CIVIL
- 18 EXISTING TO REMAIN OR NEW RIP-RAP PER CIVIL
- 20 HYDROSEED PER LEGEND
- 23 BIO-BASIN PER CIVIL
- 25 GAS LINE PER CIVIL
- 26 HANDHOLD OR MANHOLE PER ELECTRICAL
- 27 FIRE LINE PER CIVIL
- 43 SWALE PER CIVIL (GRAVEL PER LEGEND)
- 46 CATCH BASIN PER CIVIL

A

CALL DIG ALERT BEFORE ANY TRENCHING

	1	2	3		
4	5	6	7	8	9
	10	11	12	13	14
		15	16	17	18

KEY MAP (NTS)

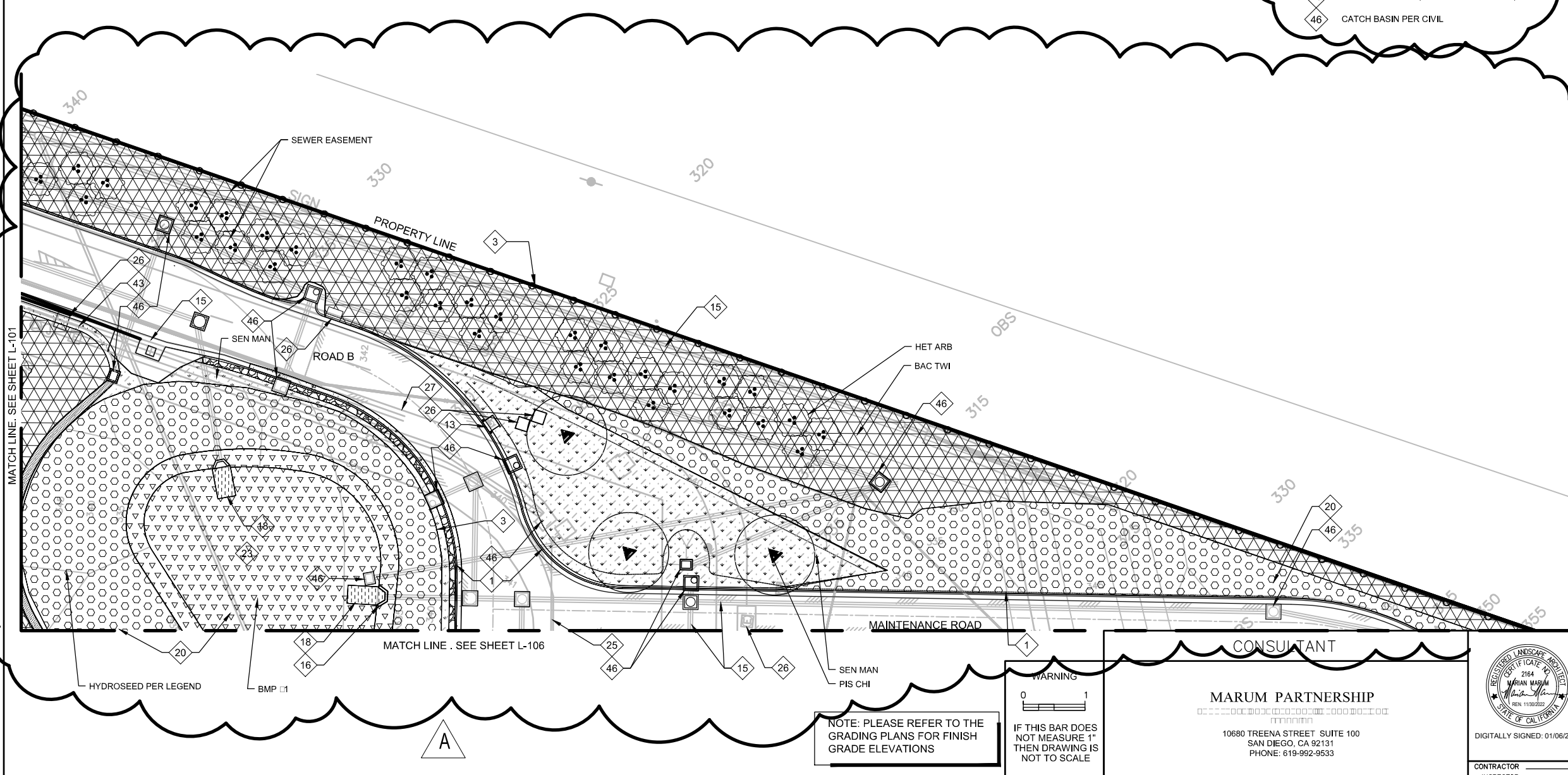


PK2-L-102

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE PLANTING PLAN - AREA 2

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 117 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER	DATE 12/03/2020	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	RCE# C70321	CHANGED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Andrea Demich</i>
		DATE FILM
		1/15/21
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-20113-
INSPECTOR	DATE COMPLETED	



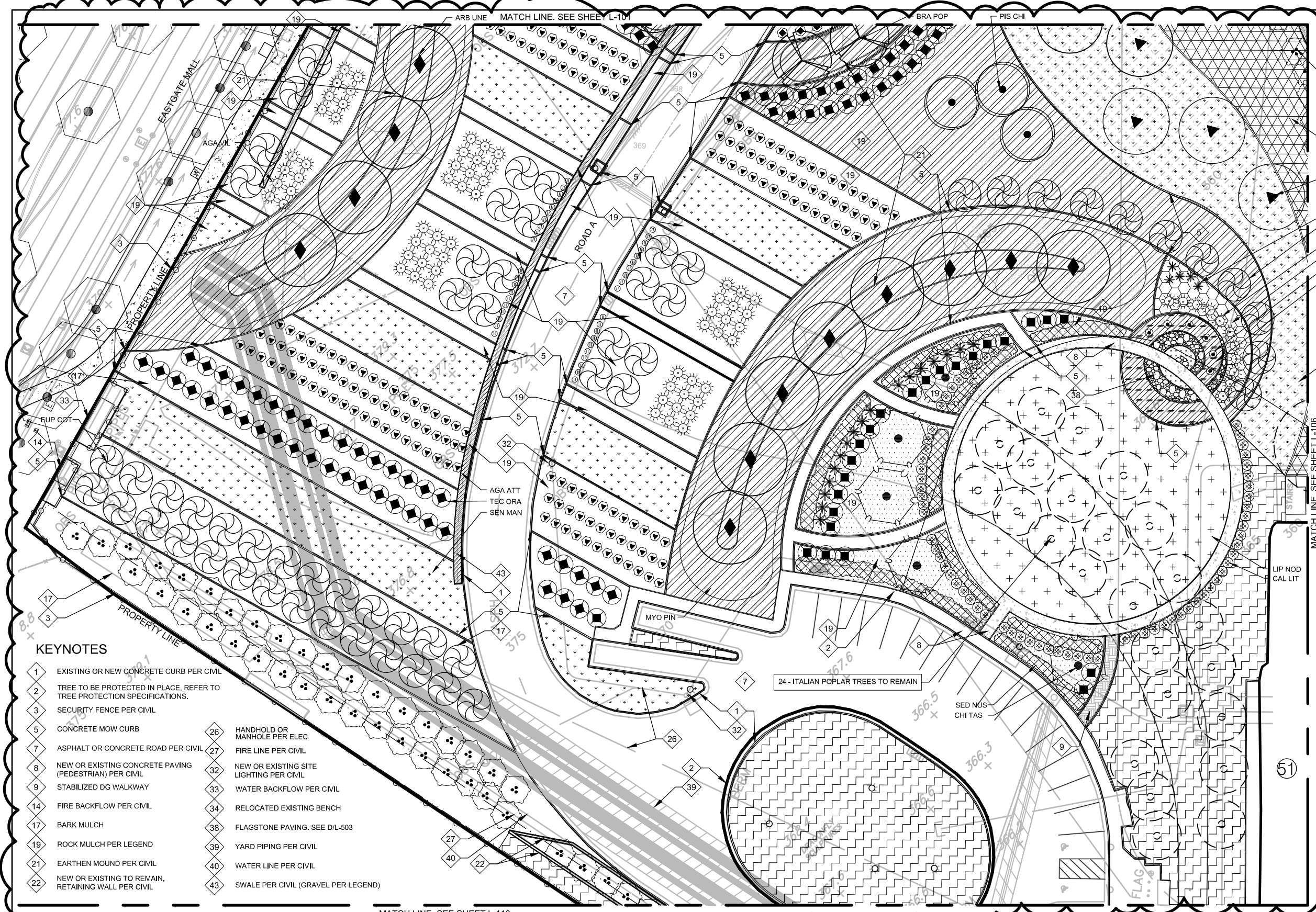
NOTE: PLEASE REFER TO THE GRADING PLANS FOR FINISH GRADE ELEVATIONS

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MARUM PARTNERSHIP
CONSULTANT
10680 TREENA STREET SUITE 100
SAN DIEGO, CA 92131
PHONE: 619-992-9533



DIGITALLY SIGNED: 01/06/2021



GENERAL NOTES

SEE VOLUME 14 FOR ALL APPLICABLE CITY OF SAN DIEGO STANDARD DETAILS

SEE SHEET L-501 FOR PLANTING LEGEND, GRAPHIC SYMBOLS

TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403()10).

A MINIMUM ROOT ZONE OF 40 SF IN AREA SHALL BE PROVIDED FOR ALL TREES. A MINIMUM DIMENSION FOR THIS AREA SHALL BE 5 FEET SDMC 142.0403()5).

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IF ANY REQUIRED LANDSCAPE INDICATED ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPLACED IN KIND AND OF EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF DAMAGE. REPLACEMENT SHALL BE AT CONTRACTORS EXPENSE (NO EXPENSE TO OWNER).

MINIMUM TREE SEPARATION DISTANCE

TRAFFIC SIGNALS/STOP SIGNS - 20 FEET

UNDERGROUND UTILITY LINES, DRIVEWAY APRON FLARE - 5 FEET

SEWER LINES - 10 FEET

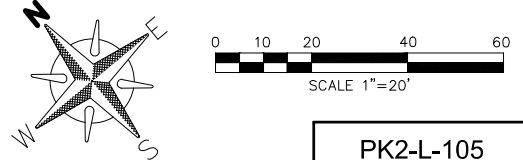
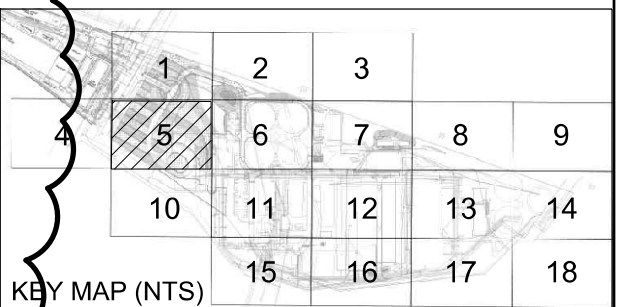
ABOVE GROUND UTILITY STRUCTURES - 10 FEET

DRIVEWAY ENTRIES - 10 FEET

INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET

ROOT BARRIER - NOTE: FOR PLAN CLARITY, ROOT BARRIERS MAY BE SHOWN OUTSIDE OF PLANTING AREA. WHERE THIS OCCURS ON PLAN, ROOT BARRIER FOR CONSTRUCTION PURPOSES TO BE PLACED AT INSIDE FACE OF CURB PER DETAIL.

CALL DIG ALERT BEFORE ANY TRENCHING



- KEYNOTES**
- 1 EXISTING OR NEW CONCRETE CURB PER CIVIL
 - 2 TREE TO BE PROTECTED IN PLACE, REFER TO TREE PROTECTION SPECIFICATIONS.
 - 3 SECURITY FENCE PER CIVIL
 - 5 CONCRETE MOW CURB
 - 7 ASPHALT OR CONCRETE ROAD PER CIVIL
 - 8 NEW OR EXISTING CONCRETE PAVING (PEDESTRIAN) PER CIVIL
 - 9 STABILIZED DG WALKWAY
 - 14 FIRE BACKFLOW PER CIVIL
 - 17 BARK MULCH
 - 19 ROCK MULCH PER LEGEND
 - 21 EARTHEN MOUND PER CIVIL
 - 22 NEW OR EXISTING TO REMAIN, RETAINING WALL PER CIVIL
 - 26 HANDHOLD OR MANHOLE PER ELEC
 - 27 FIRE LINE PER CIVIL
 - 32 NEW OR EXISTING SITE LIGHTING PER CIVIL
 - 33 WATER BACKFLOW PER CIVIL
 - 34 RELOCATED EXISTING BENCH
 - 38 FLAGSTONE PAVING. SEE D/L-503
 - 39 YARD PIPING PER CIVIL
 - 40 WATER LINE PER CIVIL
 - 43 SWALE PER CIVIL (GRAVEL PER LEGEND)

MATCH LINE. SEE SHEET L-110

51

SEE PK2-L-502 FOR DECORATIVE ROCK AND BARK MULCH LOCATIONS AND DESCRIPTIONS.

NOTE: PLEASE REFER TO THE GRADING PLANS FOR FINISH GRADE ELEVATIONS

WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

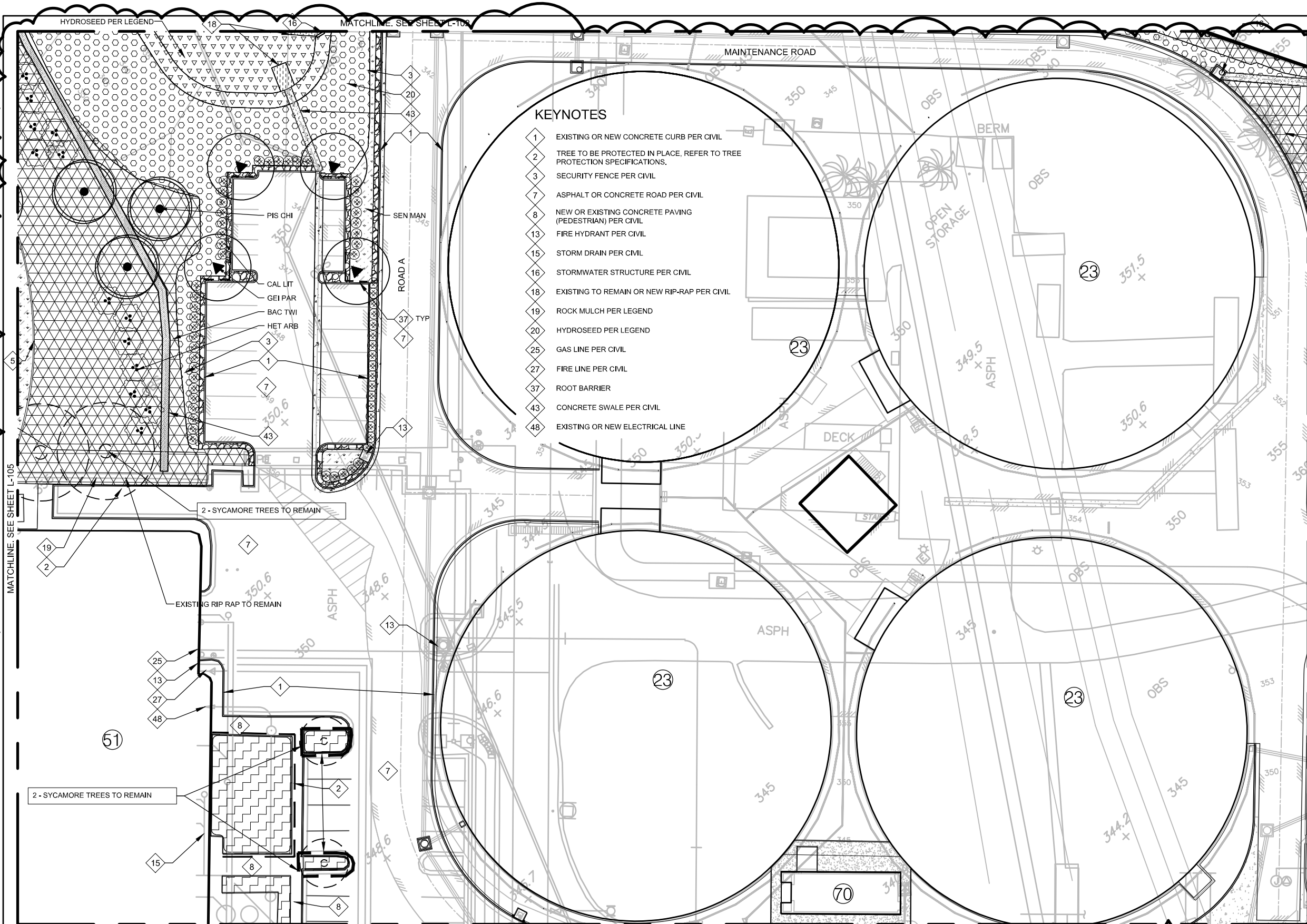
MARUM PARTNERSHIP

10680 TREENA STREET SUITE 100
SAN DIEGO, CA 92131
PHONE: 619-992-9533



DIGITALLY SIGNED: 01/06/2021

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 118 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER ANDREA DEMICH	DATE 12/03/2020 C79321	SUBMITTED BY MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED [Signature]	PROJECT ENGINEER THIEN-LONG TRAN	260-1709 CCS27 COORDINATE
		1900-6269 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-20114-0
INSPECTOR	DATE COMPLETED	



GENERAL NOTES

SEE VOLUME 14 FOR ALL APPLICABLE CITY OF SAN DIEGO STANDARD DETAILS

SEE SHEET L-501 FOR PLANTING LEGEND, GRAPHIC SYMBOLS

TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403(10).

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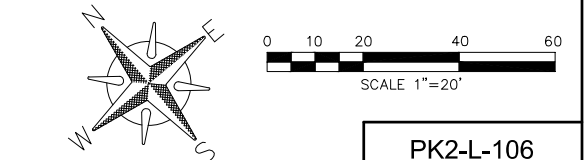
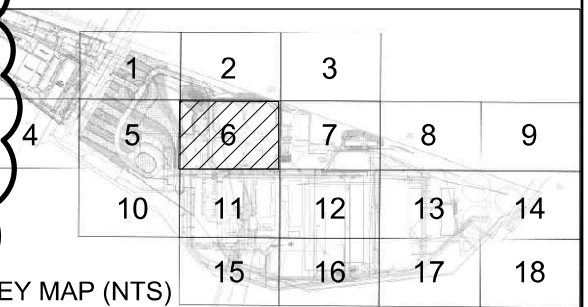
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MINIMUM TREE SEPARATION DISTANCE

- TRAFFIC SIGNALS/STOP SIGNS - 20 FEET
- UNDERGROUND UTILITY LINES, DRIVEWAY APRON FLARE - 5 FEET
- SEWER LINES - 10 FEET
- ABOVE GROUND UTILITY STRUCTURES - 10 FEET
- DRIVEWAY ENTRIES - 10 FEET
- INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET
- ROOT BARRIER - NOTE: FOR PLAN CLARITY, ROOT BARRIERS MAY BE SHOWN OUTSIDE OF PLANTING AREA, WHERE THIS OCCURS ON PLAN, ROOT BARRIER FOR CONSTRUCTION PURPOSES TO BE PLACED AT INSIDE FACE OF CURB PER DETAIL.

CALL DIG ALERT BEFORE ANY TRENCHING



PK2-L-106

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE PLANTING PLAN - AREA 6

KEYNOTES

- 1 EXISTING OR NEW CONCRETE CURB PER CIVIL
- 2 TREE TO BE PROTECTED IN PLACE. REFER TO TREE PROTECTION SPECIFICATIONS.
- 3 SECURITY FENCE PER CIVIL
- 7 ASPHALT OR CONCRETE ROAD PER CIVIL
- 8 NEW OR EXISTING CONCRETE PAVING (PEDESTRIAN) PER CIVIL
- 13 FIRE HYDRANT PER CIVIL
- 15 STORM DRAIN PER CIVIL
- 16 STORMWATER STRUCTURE PER CIVIL
- 18 EXISTING TO REMAIN OR NEW RIP-RAP PER CIVIL
- 19 ROCK MULCH PER LEGEND
- 20 HYDROSEED PER LEGEND
- 25 GAS LINE PER CIVIL
- 27 FIRE LINE PER CIVIL
- 37 ROOT BARRIER
- 43 CONCRETE SWALE PER CIVIL
- 48 EXISTING OR NEW ELECTRICAL LINE

MATCHLINE. SEE SHEET L-105

MATCHLINE. SEE SHEET L-107

MATCHLINE. SEE SHEET L-111

CONSULTANT



NOTE: PLEASE REFER TO THE GRADING PLANS FOR FINISH GRADE ELEVATIONS

WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

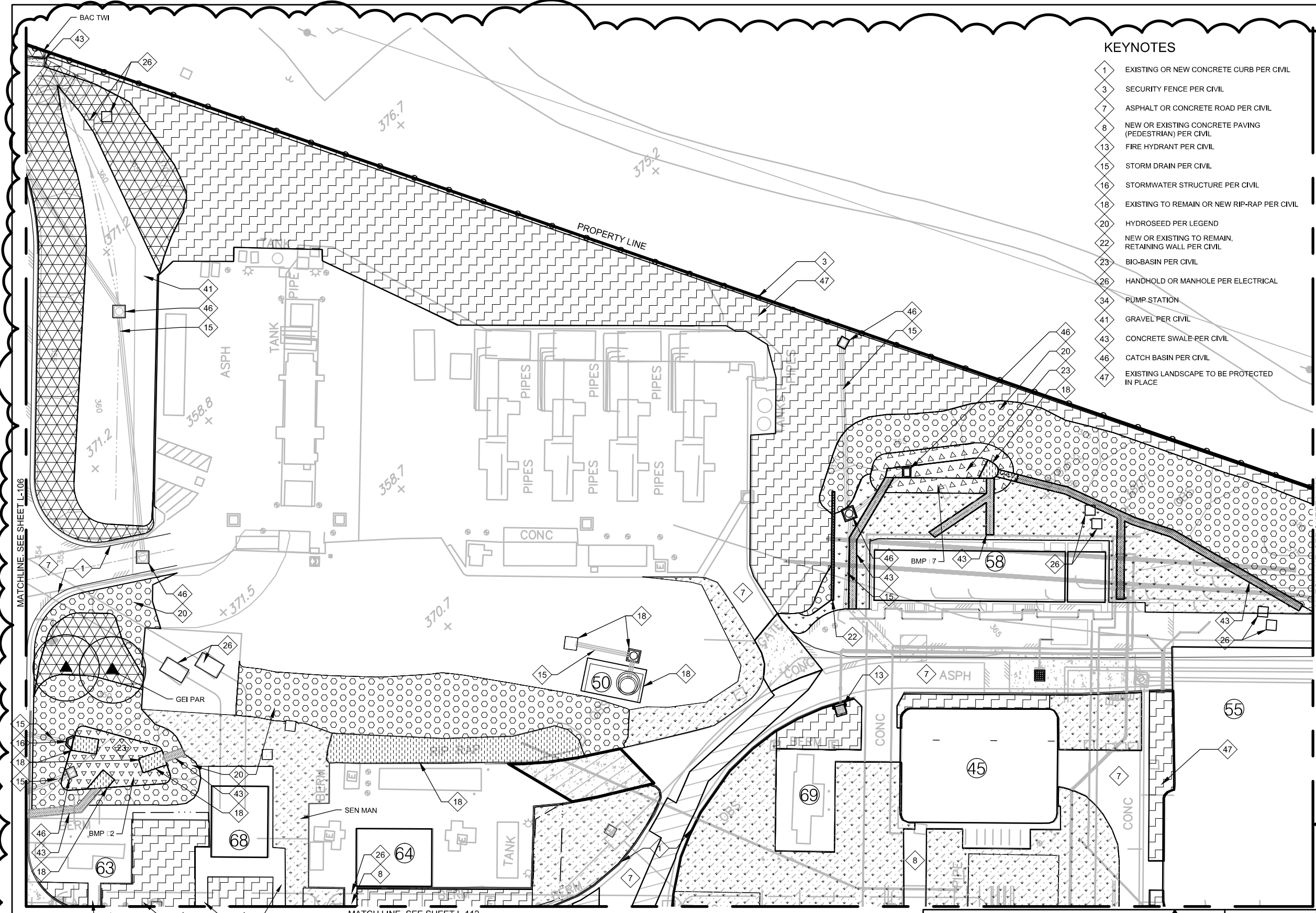
MARUM PARTNERSHIP

10680 TREENA STREET SUITE 100
SAN DIEGO, CA 92131
PHONE: 619-992-9533



DIGITALLY SIGNED: 01/06/2021

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 119 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOczynski PROJECT MANAGER
PRINT DDC NAME: <i>Andrea Demich</i>	RCE#	CHIEF: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
DATE	FILM	
ADDENDUM A	CH	<i>Andrea Demich</i>
		1/15/21
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-2115-D
INSPECTOR	DATE COMPLETED	



KEYNOTES

- 1 EXISTING OR NEW CONCRETE CURB PER CIVIL
- 3 SECURITY FENCE PER CIVIL
- 7 ASPHALT OR CONCRETE ROAD PER CIVIL
- 8 NEW OR EXISTING CONCRETE PAVING (PEDESTRIAN) PER CIVIL
- 13 FIRE HYDRANT PER CIVIL
- 15 STORM DRAIN PER CIVIL
- 16 STORMWATER STRUCTURE PER CIVIL
- 18 EXISTING TO REMAIN OR NEW RIP-RAP PER CIVIL
- 20 HYDROSEED PER LEGEND
- 22 NEW OR EXISTING TO REMAIN, RETAINING WALL PER CIVIL
- 23 BIO-BASIN PER CIVIL
- 26 HANDHOLD OR MANHOLE PER ELECTRICAL
- 34 PUMP STATION
- 41 GRAVEL PER CIVIL
- 43 CONCRETE SWALE PER CIVIL
- 46 CATCH BASIN PER CIVIL
- 47 EXISTING LANDSCAPE TO BE PROTECTED IN PLACE

GENERAL NOTES

SEE VOLUME 14 FOR ALL APPLICABLE CITY OF SAN DIEGO STANDARD DETAILS

SEE SHEET L-501 FOR PLANTING LEGEND, GRAPHIC SYMBOLS

TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403(1)(10).

A MINIMUM ROOT ZONE OF 40 SF IN AREA SHALL BE PROVIDED FOR ALL TREES. A MINIMUM DIMENSION FOR THIS AREA SHALL BE 5 FEET SDMC 142.0403(1)(5).

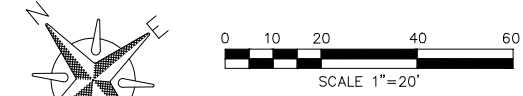
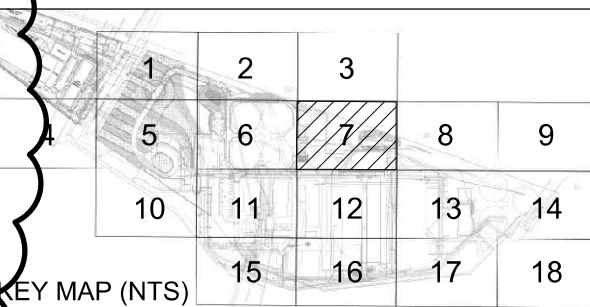
TREE ROOT BARRIERS SHALL BE INSTALLED WHERE TREES ARE PLACED WITHIN 5' (FEET) OF PUBLIC IMPROVEMENTS INCLUDING WALKS, CURBS, OR STREET PAVEMENTS, OR WHERE NEW PUBLIC IMPROVEMENTS ARE PLACED ADJACENT TO EXISTING TREES. THE ROOT BARRIER WILL NOT WRAP AROUND THE ROOT BALL

IF ANY REQUIRED LANDSCAPE INDICATED ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPLACED IN KIND AND OF EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF DAMAGE. REPLACEMENT SHALL BE AT CONTRACTORS EXPENSE (NO EXPENSE TO OWNER).

MINIMUM TREE SEPARATION DISTANCE

- TRAFFIC SIGNALS/STOP SIGNS - 20 FEET
- UNDERGROUND UTILITY LINES, DRIVEWAY APRON FLARE - 5 FEET
- SEWER LINES - 10 FEET
- ABOVE GROUND UTILITY STRUCTURES - 10 FEET
- DRIVEWAY ENTRIES - 10 FEET
- INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET
- ROOT BARRIER - NOTE: FOR PLAN CLARITY, ROOT BARRIERS MAY BE SHOWN OUTSIDE OF PLANTING AREA. WHERE THIS OCCURS ON PLAN, ROOT BARRIER FOR CONSTRUCTION PURPOSES TO BE PLACED AT INSIDE FACE OF CURB PER DETAIL.

CALL DIG ALERT BEFORE ANY TRENCHING



PK2-L-107

NCPWF EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE PLANTING PLAN - AREA 7

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 120 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER	DATE 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOczynski PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	RCE#	CHANGED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Andrea Demich</i>
		DATE FILM 1/15/21
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-20116-D
INSPECTOR	DATE COMPLETED	

NOTE: PLEASE REFER TO THE GRADING PLANS FOR FINISH GRADE ELEVATIONS

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MARUM PARTNERSHIP

10680 TREENA STREET SUITE 100
SAN DIEGO, CA 92131
PHONE: 619-992-9533



DIGITALLY SIGNED: 01/06/2021

KEYNOTES

- 1 EXISTING OR NEW CONCRETE CURB PER CIVIL
- 2 TREE TO BE PROTECTED IN PLACE, REFER TO TREE PROTECTION SPECIFICATIONS.
- 3 SECURITY FENCE PER CIVIL
- 7 ASPHALT OR CONCRETE ROAD PER CIVIL
- 8 NEW OR EXISTING CONCRETE PAVING (PEDESTRIAN) PER CIVIL
- 15 STORM DRAIN PER CIVIL
- 20 HYDROSEED PER LEGEND
- 22 NEW OR EXISTING TO REMAIN, RETAINING WALL PER CIVIL
- 24 SEWER LINE PER CIVIL
- 25 GAS LINE PER CIVIL
- 41 GRAVEL PER CIVIL
- 47 EXISTING LANDSCAPE TO BE PROTECTED IN PLACE
- 48 EXISTING OR NEW ELECTRICAL LINE



GENERAL NOTES

SEE VOLUME 14 FOR ALL APPLICABLE CITY OF SAN DIEGO STANDARD DETAILS

SEE SHEET L-501 FOR PLANTING LEGEND, GRAPHIC SYMBOLS

TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403() (10).

A MINIMUM ROOT ZONE OF 40 SF IN AREA SHALL BE PROVIDED FOR ALL TREES. A MINIMUM DIMENSION FOR THIS AREA SHALL BE 5 FEET SDMC 142.0403() (5).

TREE ROOT BARRIERS SHALL BE INSTALLED WHERE TREES ARE PLACED WITHIN 5' (FEET) OF PUBLIC IMPROVEMENTS INCLUDING WALKS, CURBS, OR STREET PAVEMENTS, OR WHERE NEW PUBLIC IMPROVEMENTS ARE PLACED ADJACENT TO EXISTING TREES, THE ROOT BARRIER WILL NOT WRAP AROUND THE ROOT BALL

IF ANY REQUIRED LANDSCAPE INDICATED ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPLACED IN KIND AND OF EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF DAMAGE. REPLACEMENT SHALL BE AT CONTRACTORS EXPENSE (NO OWNER).

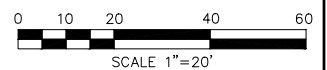
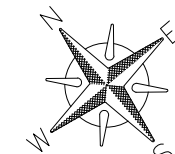
MINIMUM TREE SEPARATION DISTANCE

- TRAFFIC SIGNALS/STOP SIGNS - 20 FEET
- UNDERGROUND UTILITY LINES, DRIVEWAY APRON FLARE - 5 FEET
- SEWER LINES - 10 FEET
- ABOVE GROUND UTILITY STRUCTURES - 10 FEET
- DRIVEWAY ENTRIES - 10 FEET
- INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET
- ROOT BARRIER - NOTE: FOR PLAN CLARITY, ROOT BARRIERS MAY BE SHOWN OUTSIDE OF PLANTING AREA. WHERE THIS OCCURS ON PLAN, ROOT BARRIER FOR CONSTRUCTION PURPOSES TO BE PLACED AT INSIDE FACE OF CURB PER DETAIL.

CALL DIG ALERT BEFORE ANY TRENCHING

	1	2	3	
4	5	6	7	8
	10	11	12	13
	15	16	17	18

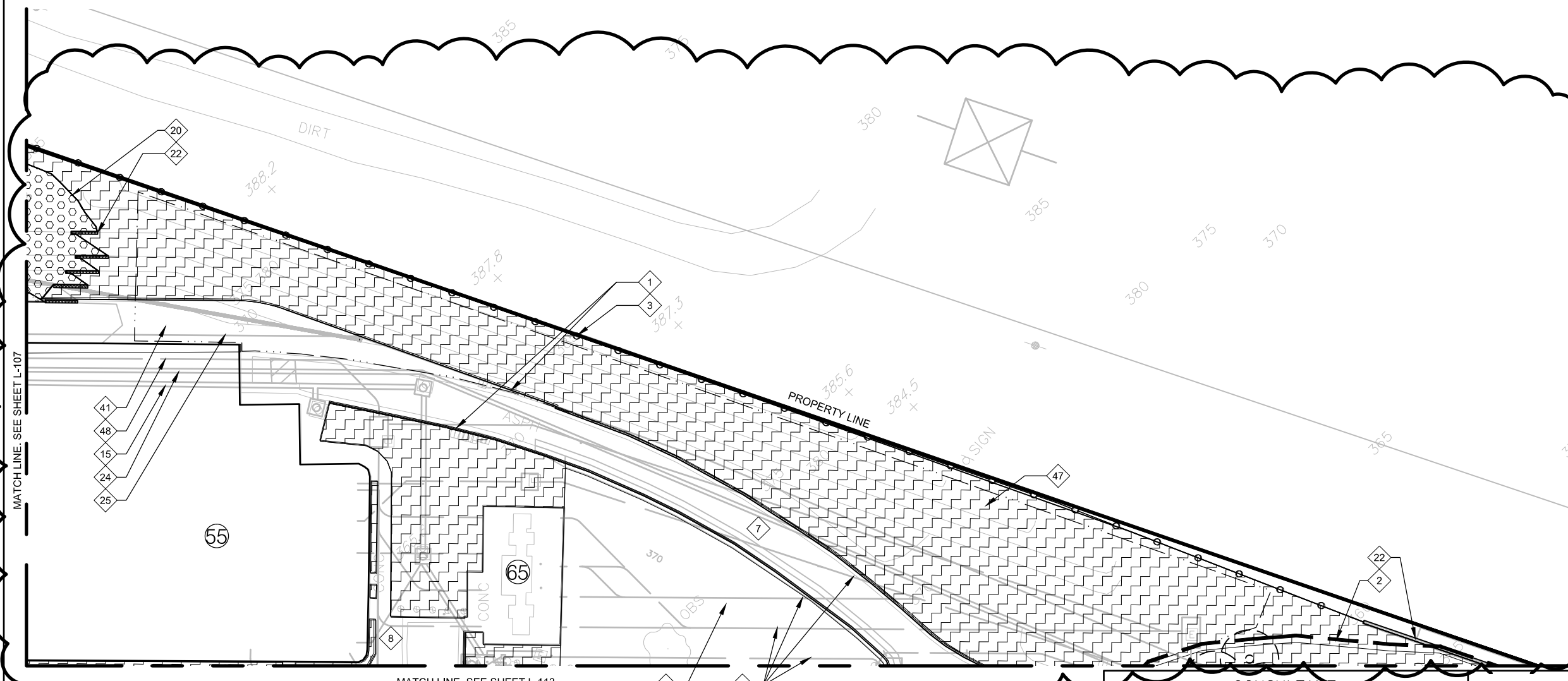
KEY MAP (NTS)



PK2-L-108

NWWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE PLANTING PLAN - AREA 8



MATCH LINE. SEE SHEET L-107

MATCH LINE. SEE SHEET L-113

CONSULTANT

NOTE: PLEASE REFER TO THE GRADING PLANS FOR FINISH GRADE ELEVATIONS

WARNING

0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MARUM PARTNERSHIP

10680 TREENA STREET SUITE 100
SAN DIEGO, CA 92131
PHONE: 619-992-9533



DIGITALLY SIGNED: 01/06/2021

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 121 OF 1169 SHEETS

B-16149, S-17012
WBS B-15142

APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER DATE: 12/03/2020 RCE# C70321	PROJECT MANAGER MONIKA SMOCZYNSKI
DESCRIPTION Addendum A	PROJECT ENGINEER THIEN-LONG TRAN
BY CH	260-1709 CCS27 COORDINATE
APPROVED <i>Andrea Demich</i>	1900-6269 CCS83 COORDINATE
DATE STARTED	DATE COMPLETED
CONTRACTOR INSPECTOR	

40381-20117-0

KEYNOTES

- 1 EXISTING OR NEW CONCRETE CURB PER CIVIL
- 2 TREE TO BE PROTECTED IN PLACE, REFER TO TREE PROTECTION SPECIFICATIONS.
- 3 SECURITY FENCE PER CIVIL
- 5 CONCRETE MOW CURB
- 7 ASPHALT OR CONCRETE ROAD PER CIVIL
- 8 NEW OR EXISTING CONCRETE PAVING (PEDESTRIAN) PER CIVIL
- 15 STORM DRAIN PER CIVIL
- 19 ROCK MULCH PER LEGEND
- 20 HYDROSEED PER LEGEND
- 22 NEW OR EXISTING TO REMAIN, RETAINING WALL PER CIVIL
- 36 24" WIDE ROCK BAND
- 40 WATER LINE PER CIVIL
- 47 EXISTING LANDSCAPE TO BE PROTECTED IN PLACE
- 48 EXISTING OR NEW ELECTRICAL LINE

GENERAL NOTES

SEE VOLUME 14 FOR ALL APPLICABLE CITY OF SAN DIEGO STANDARD DETAILS

SEE SHEET L-501 FOR PLANTING LEGEND, GRAPHIC SYMBOLS

TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403()(10).

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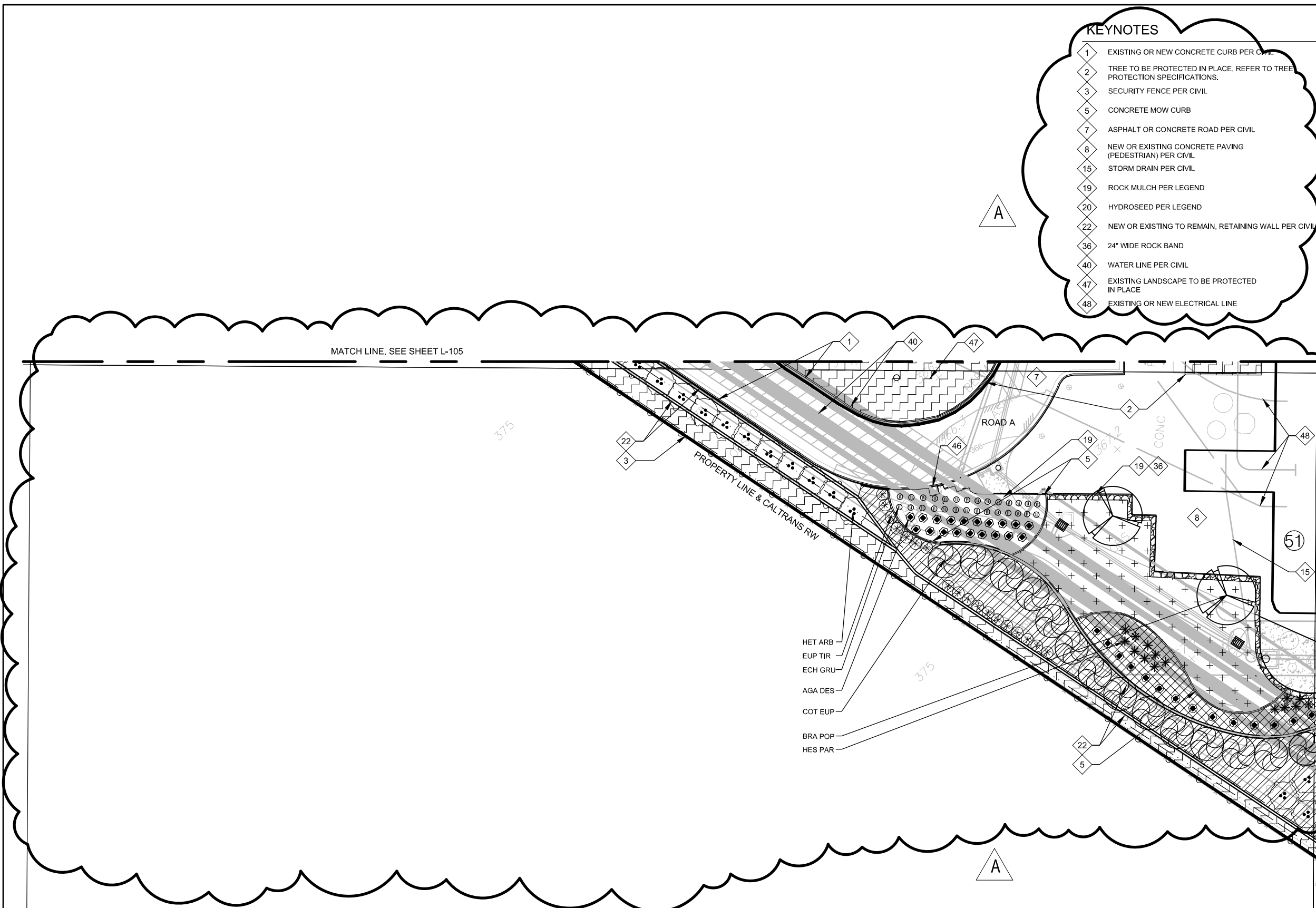
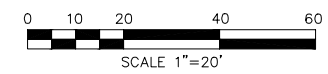
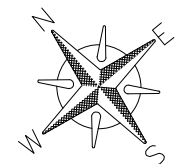
MINIMUM TREE SEPARATION DISTANCE

- TRAFFIC SIGNALS/STOP SIGNS - 20 FEET
- UNDERGROUND UTILITY LINES, DRIVEWAY APRON FLARE - 5 FEET
- SEWER LINES - 10 FEET
- ABOVE GROUND UTILITY STRUCTURES - 10 FEET
- DRIVEWAY ENTRIES - 10 FEET
- INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET
- ROOT BARRIER - NOTE: FOR PLAN CLARITY, ROOT BARRIERS MAY BE SHOWN OUTSIDE OF PLANTING AREA. WHERE THIS OCCURS ON PLAN, ROOT BARRIER FOR CONSTRUCTION PURPOSES TO BE PLACED AT INSIDE FACE OF CURB PER DETAIL.

CALL DIG ALERT BEFORE ANY TRENCHING

KEY MAP (NTS)

	1	2	3	
4	5	6	7	8
	10	11	12	13
	15	16	17	18



SEE PK2-L-502 FOR DECORATIVE ROCK AND BARK MULCH LOCATIONS AND DESCRIPTIONS.

NOTE: PLEASE REFER TO THE GRADING PLANS FOR FINISH GRADE ELEVATIONS

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

MARUM PARTNERSHIP

10680 TREENA STREET SUITE 100
SAN DIEGO, CA 92131
PHONE: 619-992-9533



PK2-L-110

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

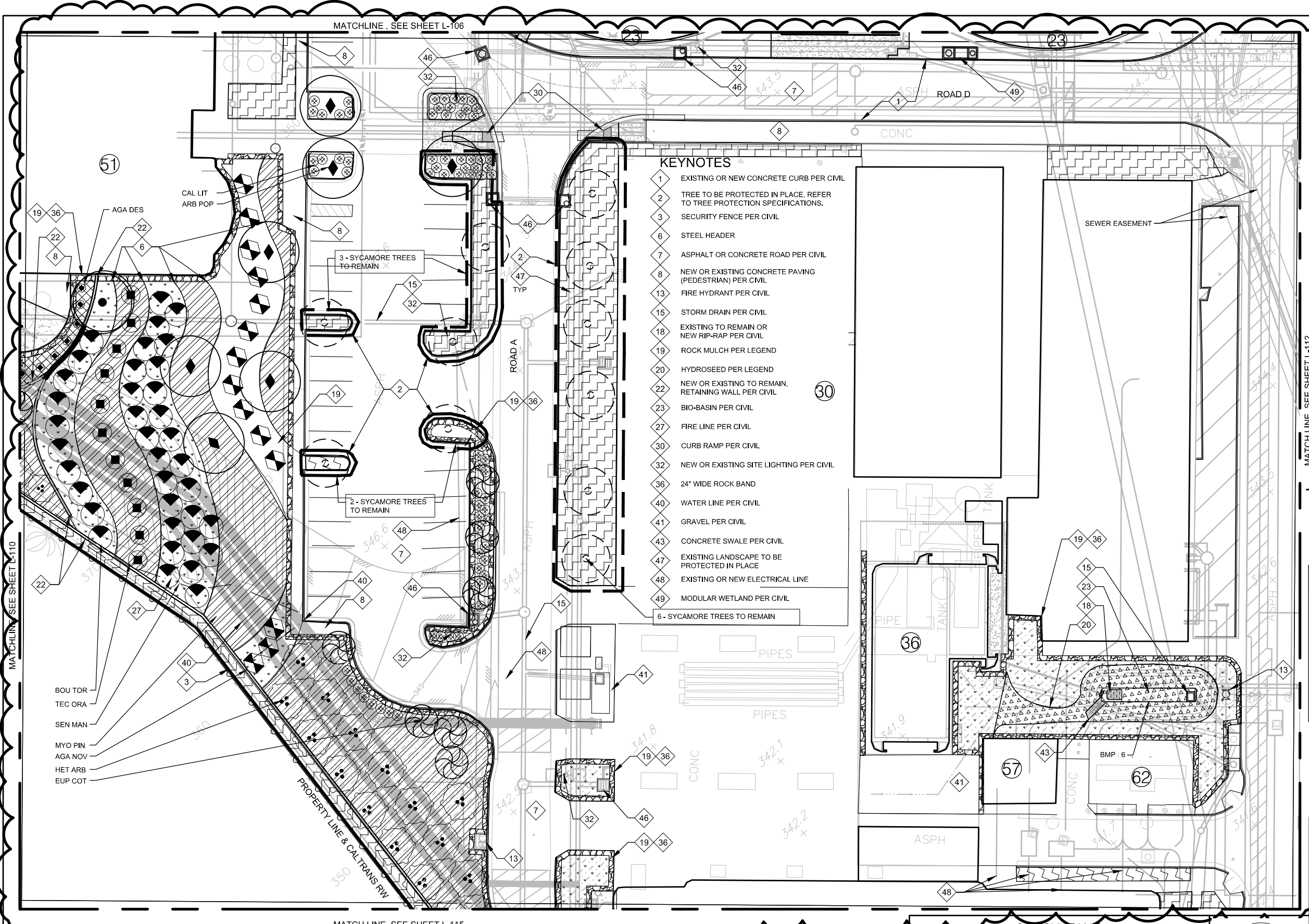
LANDSCAPE PLANTING PLAN - AREA 10

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 122 OF 1169 SHEETS

DATE: 12/03/2020
PROJECT MANAGER: MONIKA SMO CZYNSKI
PROJECT ENGINEER: THIEN-LONG TRAN
DATE STARTED: 1/15/21
DATE COMPLETED: 4/0381-20118-0

DESCRIPTION	BY	APPROVED	DATE	FILM
Addendum A	CH	<i>Andrea Demich</i>	1/15/21	

B-16149, S-17012
WBS B-15142



MATCHLINE - SEE SHEET L-110

MATCHLINE - SEE SHEET L-106

MATCHLINE - SEE SHEET L-115

GENERAL NOTES

SEE VOLUME 14 FOR ALL APPLICABLE CITY OF SAN DIEGO STANDARD DETAILS

SEE SHEET L-501 FOR PLANTING LEGEND, GRAPHIC SYMBOLS

TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403() (10).

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TREE ROOT BARRIERS SHALL BE INSTALLED WHERE TREES ARE PLACED WITHIN 5' (FEET) OF PUBLIC IMPROVEMENTS INCLUDING WALKS, CURBS, OR STREET PAVEMENTS, OR WHERE NEW PUBLIC IMPROVEMENTS ARE PLACED ADJACENT TO EXISTING TREES. THE ROOT BARRIER WILL NOT WRAP AROUND THE ROOT BALL

IF ANY REQUIRED LANDSCAPE INDICATED ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPLACED IN KIND AND OF EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF DAMAGE. REPLACEMENT SHALL BE AT CONTRACTORS EXPENSE (NO EXPENSE TO OWNER).

MINIMUM TREE SEPARATION DISTANCE

TRAFFIC SIGNALS/STOP SIGNS - 20 FEET

UNDERGROUND UTILITY LINES, DRIVEWAY APRON FLARE - 5 FEET

SEWER LINES - 10 FEET

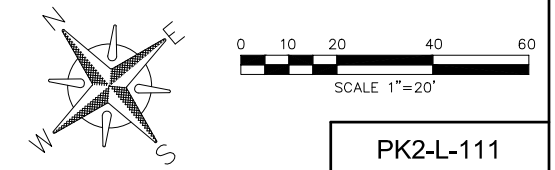
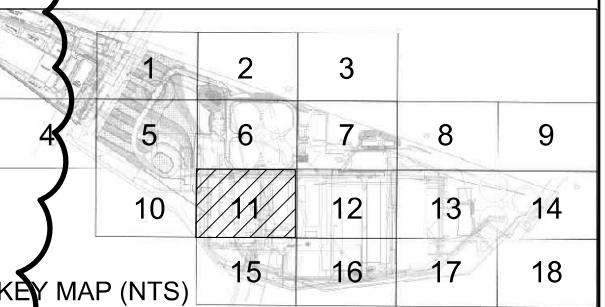
ABOVE GROUND UTILITY STRUCTURES - 10 FEET

DRIVEWAY ENTRIES - 10 FEET

INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET

ROOT BARRIER - NOTE: FOR PLAN CLARITY, ROOT BARRIERS MAY BE SHOWN OUTSIDE OF PLANTING AREA. WHERE THIS OCCURS ON PLAN, ROOT BARRIER FOR CONSTRUCTION PURPOSES TO BE PLACED AT INSIDE FACE OF CURB PER DETAIL.

CALL DIG ALERT BEFORE ANY TRENCHING



PK2-L-111

CWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE PLANTING PLAN - AREA 11

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 123 OF 1169 SHEETS		B-16149, S-17012 WS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020	SUBMITTED BY MONIKA SMOczynski PROJECT MANAGER
PRINT DCE NAME Andrea Demich	RCE# C70321	CHECKED BY THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED [Signature]	DATE 1/15/21	FILM 260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
DATE STARTED		40381-20119-D
DATE COMPLETED		

- KEYNOTES**
- 1 EXISTING OR NEW CONCRETE CURB PER CIVIL
 - 2 TREE TO BE PROTECTED IN PLACE, REFER TO TREE PROTECTION SPECIFICATIONS.
 - 3 SECURITY FENCE PER CIVIL
 - 6 STEEL HEADER
 - 7 ASPHALT OR CONCRETE ROAD PER CIVIL
 - 8 NEW OR EXISTING CONCRETE PAVING (PEDESTRIAN) PER CIVIL
 - 13 FIRE HYDRANT PER CIVIL
 - 15 STORM DRAIN PER CIVIL
 - 18 EXISTING TO REMAIN OR NEW RIP-RAP PER CIVIL
 - 19 ROCK MULCH PER LEGEND
 - 20 HYDROSEED PER LEGEND
 - 22 NEW OR EXISTING TO REMAIN, RETAINING WALL PER CIVIL
 - 23 BIO-BASIN PER CIVIL
 - 27 FIRE LINE PER CIVIL
 - 30 CURB RAMP PER CIVIL
 - 32 NEW OR EXISTING SITE LIGHTING PER CIVIL
 - 36 24" WIDE ROCK BAND
 - 40 WATER LINE PER CIVIL
 - 41 GRAVEL PER CIVIL
 - 43 CONCRETE SWALE PER CIVIL
 - 47 EXISTING LANDSCAPE TO BE PROTECTED IN PLACE
 - 48 EXISTING OR NEW ELECTRICAL LINE
 - 49 MODULAR WETLAND PER CIVIL
 - 6 - SYCAMORE TREES TO REMAIN

WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

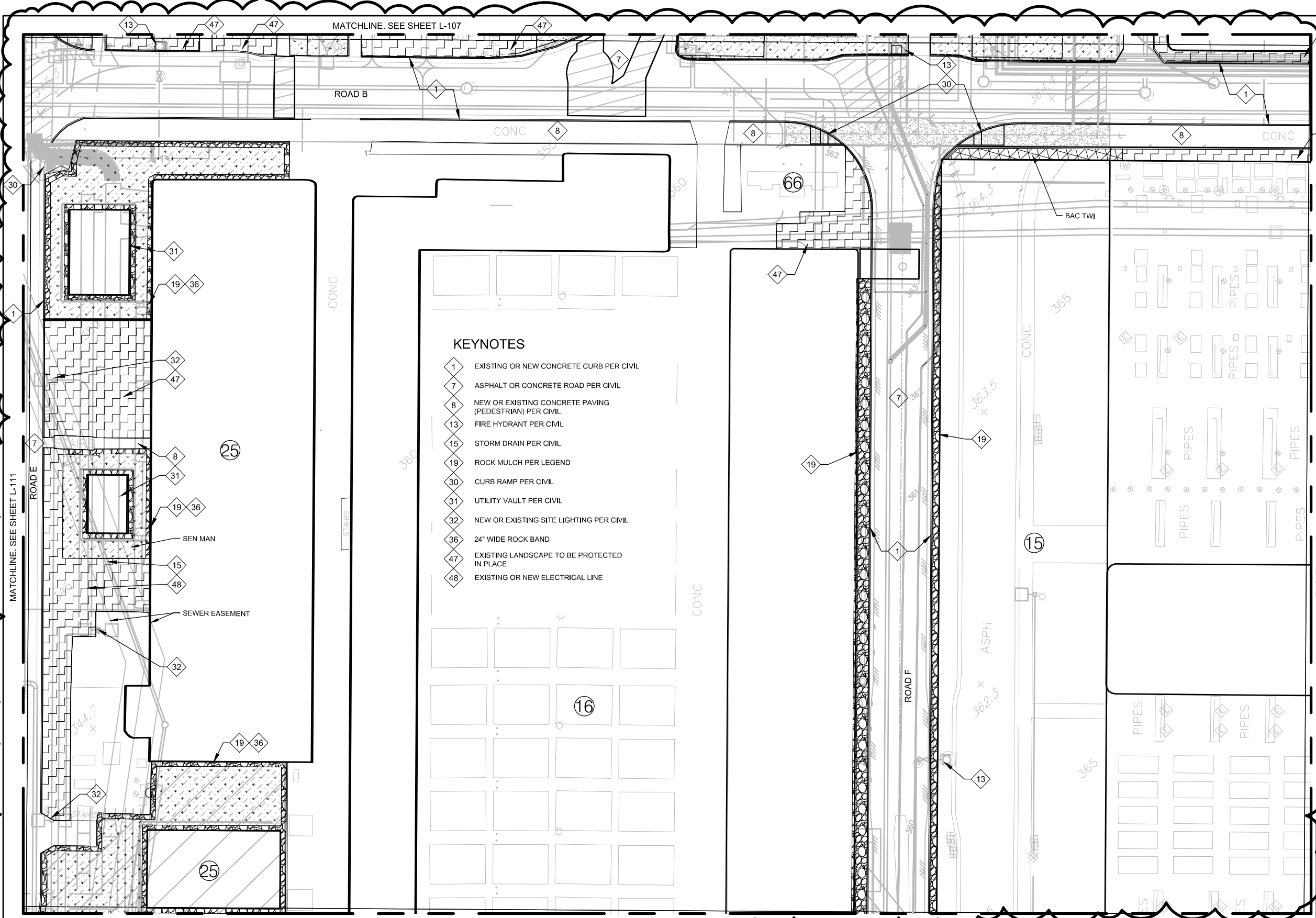
MARUM PARTNERSHIP

10680 TREENA STREET SUITE 100
SAN DIEGO, CA 92131
PHONE: 619-992-9533



SEE PK2-L-502 FOR DECORATIVE ROCK AND BARK MULCH LOCATIONS AND DESCRIPTIONS.

NOTE: PLEASE REFER TO THE GRADING PLANS FOR FINISH GRADE ELEVATIONS



KEYNOTES

- 1 EXISTING OR NEW CONCRETE CURB PER CIVIL
- 7 ASPHALT OR CONCRETE ROAD PER CIVIL
- 8 NEW OR EXISTING CONCRETE PAVING (PEDESTRIAN) PER CIVIL
- 13 FIRE HYDRANT PER CIVIL
- 15 STORM DRAIN PER CIVIL
- 19 ROCK MULCH PER LEGEND
- 30 CURB RAMP PER CIVIL
- 31 UTILITY VAULT PER CIVIL
- 32 NEW OR EXISTING SITE LIGHTING PER CIVIL
- 36 24" WIDE ROCK BAND
- 47 EXISTING LANDSCAPE TO BE PROTECTED IN PLACE
- 48 EXISTING OR NEW ELECTRICAL LINE

GENERAL NOTES

SEE VOLUME 14 FOR ALL APPLICABLE CITY OF SAN DIEGO STANDARD DETAILS

SEE SHEET L-501 FOR PLANTING LEGEND, GRAPHIC SYMBOLS

TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403(1)(10).

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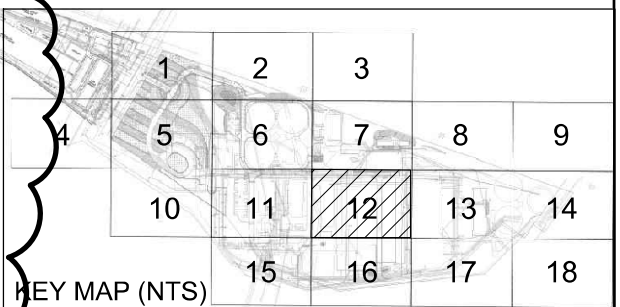
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MINIMUM TREE SEPARATION DISTANCE

- TRAFFIC SIGNALS/STOP SIGNS - 20 FEET
- UNDERGROUND UTILITY LINES, DRIVEWAY APRON FLARE - 5 FEET
- SEWER LINES - 10 FEET
- ABOVE GROUND UTILITY STRUCTURES - 10 FEET
- DRIVEWAY ENTRIES - 10 FEET
- INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET

ROOT BARRIER - NOTE: FOR PLAN CLARITY, ROOT BARRIERS MAY BE SHOWN OUTSIDE OF PLANTING AREA. WHERE THIS OCCURS ON PLAN, ROOT BARRIER FOR CONSTRUCTION PURPOSES TO BE PLACED AT INSIDE FACE OF CURB PER DETAIL.

CALL DIG ALERT BEFORE ANY TRENCHING



PK2-L-112

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
LANDSCAPE PLANTING PLAN - AREA 12

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 124 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C70321	SUBMITTED BY MONIKA SMOczynski PROJECT MANAGER
DESCRIPTION Addendum A	BY CH	CHECKED BY THIEN-LONG TRAN PROJECT ENGINEER
APPROVED <i>Andrea Demich</i>	DATE 1/15/21	FILM 260-1709
		CCS27 COORDINATE 1900-6269
		CCS83 COORDINATE 40381-2120-D
CONTRACTOR INSPECTOR	DATE STARTED	DATE COMPLETED

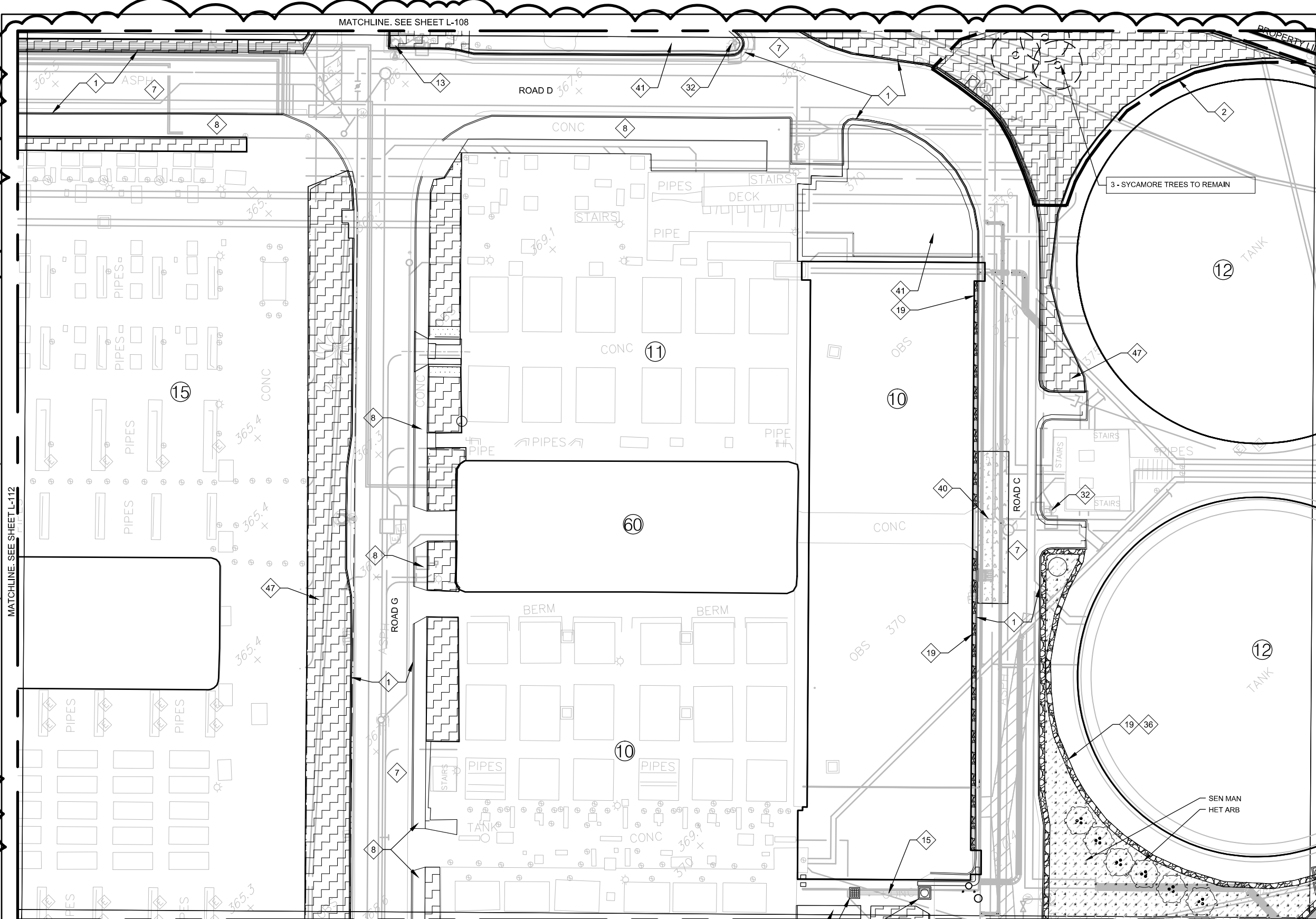
NOTE: PLEASE REFER TO THE GRADING PLANS FOR FINISH GRADE ELEVATIONS

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT
MARUM PARTNERSHIP
 10680 TREENA STREET SUITE 100
 SAN DIEGO, CA 92131
 PHONE: 619-992-9533



DIGITALLY SIGNED: 01/06/2021



GENERAL NOTES

SEE VOLUME 14 FOR ALL APPLICABLE CITY OF SAN DIEGO STANDARD DETAILS

SEE SHEET L-501 FOR PLANTING LEGEND, GRAPHIC SYMBOLS

TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403(i)(10).

A MINIMUM ROOT ZONE OF 40 SF IN AREA SHALL BE PROVIDED FOR ALL TREES. A MINIMUM DIMENSION FOR THIS AREA SHALL BE 5 FEET SDMC 142.0403(j)(5).

TREE ROOT BARRIERS SHALL BE INSTALLED WHERE TREES ARE PLACED WITHIN 5' (FEET) OF PUBLIC IMPROVEMENTS INCLUDING WALKS, CURBS, OR STREET PAVEMENTS, OR WHERE NEW PUBLIC IMPROVEMENTS ARE PLACED ADJACENT TO EXISTING TREES. THE ROOT BARRIER WILL NOT WRAP AROUND THE ROOT BALL

IF ANY REQUIRED LANDSCAPE INDICATED ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPLACED IN KIND AND OF EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF DAMAGE. REPLACEMENT SHALL BE AT CONTRACTORS EXPENSE (NO EXPENSE TO OWNER).

MINIMUM TREE SEPARATION DISTANCE

TRAFFIC SIGNALS/STOP SIGNS - 20 FEET

UNDERGROUND UTILITY LINES, DRIVEWAY APRON FLARE - 5 FEET

SEWER LINES - 10 FEET

ABOVE GROUND UTILITY STRUCTURES - 10 FEET

DRIVEWAY ENTRIES - 10 FEET

INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET

ROOT BARRIER - NOTE: FOR PLAN CLARITY, ROOT BARRIERS MAY BE SHOWN OUTSIDE OF PLANTING AREA. WHERE THIS OCCURS ON PLAN, ROOT BARRIER FOR CONSTRUCTION PURPOSES TO BE PLACED AT INSIDE FACE OF CURB PER DETAIL.

CALL DIG ALERT BEFORE ANY TRENCHING

KEY MAP (NTS)

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18



PK2-L-113

NEW WRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE PLANTING PLAN - AREA 13

- KEYNOTES**
- 1 EXISTING OR NEW CONCRETE CURB PER CIVIL
 - 2 TREE TO BE PROTECTED IN PLACE, REFER TO TREE PROTECTION SPECIFICATIONS.
 - 3 SECURITY FENCE PER CIVIL
 - 7 ASPHALT OR CONCRETE ROAD PER CIVIL
 - 8 NEW OR EXISTING CONCRETE PAVING (PEDESTRIAN) PER CIVIL
 - 15 STORM DRAIN PER CIVIL
 - 19 ROCK MULCH PER LEGEND
 - 32 NEW OR EXISTING SITE LIGHTING PER CIVIL
 - 36 24" WIDE ROCK BAND
 - 40 WATER LINE PER CIVIL
 - 41 GRAVEL PER CIVIL
 - 46 CATCH BASIN PER CIVIL
 - 47 EXISTING LANDSCAPE TO BE PROTECTED IN PLACE

NOTE: PLEASE REFER TO THE GRADING PLANS FOR FINISH GRADE ELEVATIONS

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

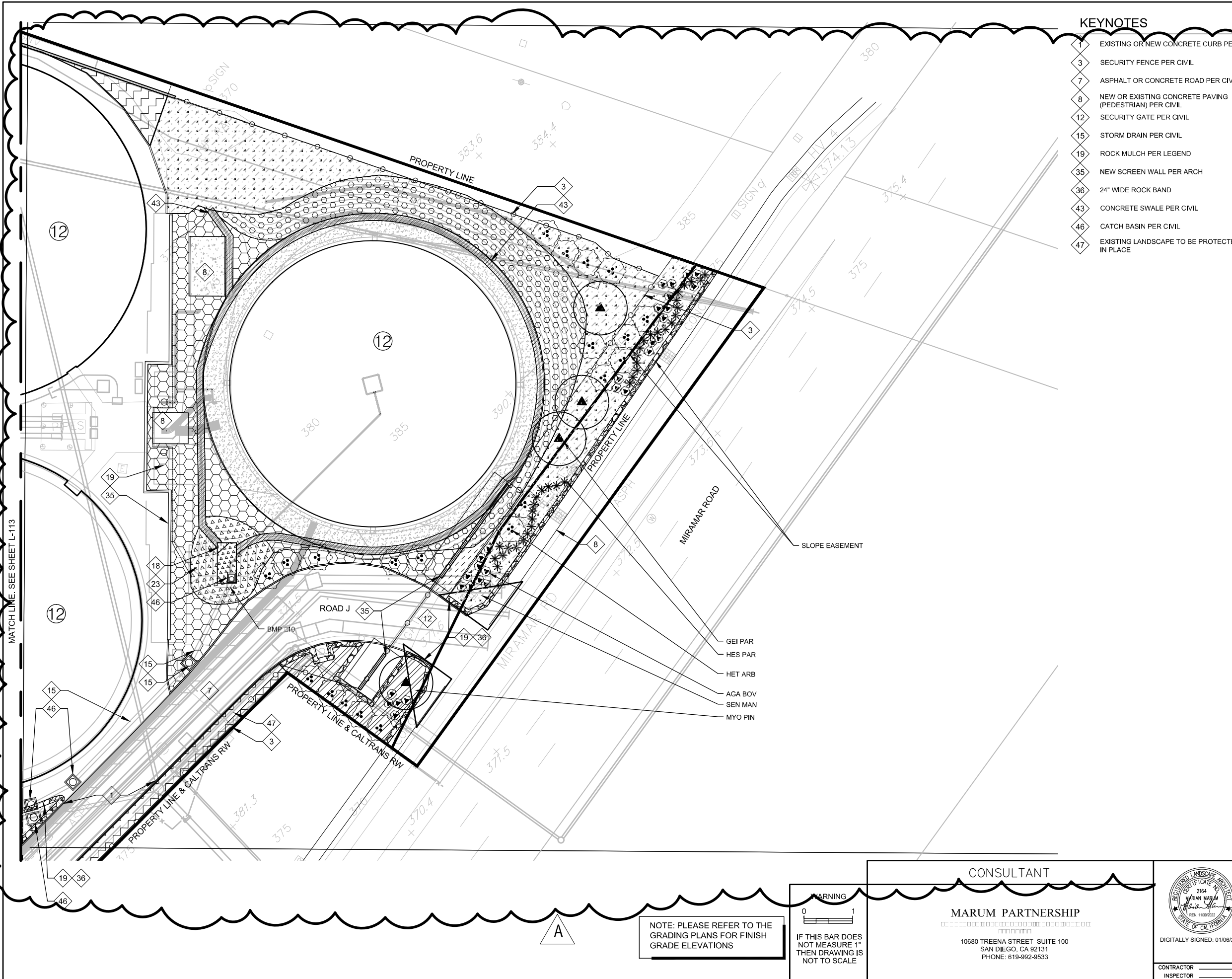
CONSULTANT

MARUM PARTNERSHIP

10680 TREENA STREET SUITE 100
SAN DIEGO, CA 92131
PHONE: 619-992-9533

DIGITALLY SIGNED: 01/06/2021

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 125 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER ANDREA DEMICH	DATE 12/03/2020 RCE# C70321	SUBMITTED BY MONIKA SMOczynski PROJECT MANAGER
DESCRIPTION Addendum A	BY CH	CHIEF OF PROJECT THIEN-LONG TRAN PROJECT ENGINEER
APPROVED [Signature]	DATE 1/15/21	260-1709 CCS27 COORDINATE
		1900-6269 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-20121-0
INSPECTOR	DATE COMPLETED	



KEYNOTES

- 1 EXISTING OR NEW CONCRETE CURB PER CIVIL
- 3 SECURITY FENCE PER CIVIL
- 7 ASPHALT OR CONCRETE ROAD PER CIVIL
- 8 NEW OR EXISTING CONCRETE PAVING (PEDESTRIAN) PER CIVIL
- 12 SECURITY GATE PER CIVIL
- 15 STORM DRAIN PER CIVIL
- 19 ROCK MULCH PER LEGEND
- 35 NEW SCREEN WALL PER ARCH
- 36 24" WIDE ROCK BAND
- 43 CONCRETE SWALE PER CIVIL
- 46 CATCH BASIN PER CIVIL
- 47 EXISTING LANDSCAPE TO BE PROTECTED IN PLACE

GENERAL NOTES

SEE VOLUME 14 FOR ALL APPLICABLE CITY OF SAN DIEGO STANDARD DETAILS

SEE SHEET L-501 FOR PLANTING LEGEND, GRAPHIC SYMBOLS

TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403(J)(10).

A MINIMUM ROOT ZONE OF 40 SF IN AREA SHALL BE PROVIDED FOR ALL TREES. A MINIMUM DIMENSION FOR THIS AREA SHALL BE 5 FEET SDMC 142.0403(J)(5).

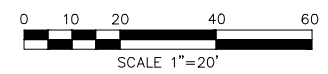
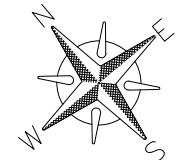
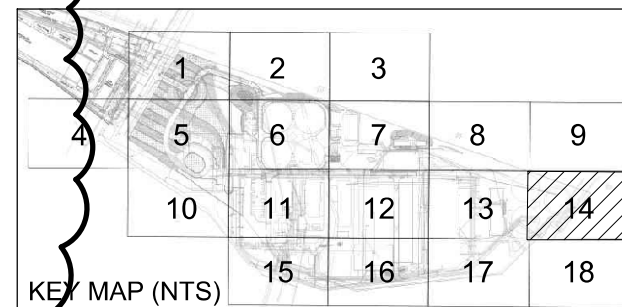
TREE ROOT BARRIERS SHALL BE INSTALLED WHERE TREES ARE PLACED WITHIN 5' (FEET) OF PUBLIC IMPROVEMENTS INCLUDING WALKS, CURBS, OR STREET PAVEMENTS, OR WHERE NEW PUBLIC IMPROVEMENTS ARE PLACED ADJACENT TO EXISTING TREES. THE ROOT BARRIER WILL NOT WRAP AROUND THE ROOT BALL

IF ANY REQUIRED LANDSCAPE INDICATED ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPLACED IN KIND AND OF EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF DAMAGE. REPLACEMENT SHALL BE AT CONTRACTORS EXPENSE (NO EXPENSE TO OWNER).

MINIMUM TREE SEPARATION DISTANCE

- TRAFFIC SIGNALS/STOP SIGNS - 20 FEET
 - UNDERGROUND UTILITY LINES, DRIVEWAY APRON FLARE - 5 FEET
 - SEWER LINES - 10 FEET
 - ABOVE GROUND UTILITY STRUCTURES - 10 FEET
 - DRIVEWAY ENTRIES - 10 FEET
 - INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET
- ROOT BARRIER - NOTE: FOR PLAN CLARITY, ROOT BARRIERS MAY BE SHOWN OUTSIDE OF PLANTING AREA. WHERE THIS OCCURS ON PLAN, ROOT BARRIER FOR CONSTRUCTION PURPOSES TO BE PLACED AT INSIDE FACE OF CURB PER DETAIL.

CALL DIG ALERT BEFORE ANY TRENCHING



PK2-L-114

NEW WRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE PLANTING PLAN - AREA 14

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 126 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER DATE: 12/03/2020	DATE: 07/03/21 RCE#	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demich		CHANGED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Andrea Demich</i>
		DATE FILM
		1/15/21
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-20122-D
INSPECTOR	DATE COMPLETED	

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

MARUM PARTNERSHIP

10680 TREENA STREET SUITE 100
SAN DIEGO, CA 92131
PHONE: 619-992-9533



DIGITALLY SIGNED: 01/06/2021

NOTE: PLEASE REFER TO THE GRADING PLANS FOR FINISH GRADE ELEVATIONS

KEYNOTES

- 1 EXISTING OR NEW CONCRETE CURB PER CIVIL
- 3 SECURITY FENCE PER CIVIL
- 7 ASPHALT OR CONCRETE ROAD PER CIVIL
- 8 NEW OR EXISTING CONCRETE PAVING (PEDESTRIAN) PER CIVIL
- 13 FIRE HYDRANT PER CIVIL
- 19 ROCK MULCH PER LEGEND
- 31 UTILITY VAULT PER CIVIL
- 32 NEW OR EXISTING SITE LIGHTING PER CIVIL
- 36 24" WIDE ROCK BAND
- 46 CATCH BASIN PER CIVIL
- 47 EXISTING LANDSCAPE TO BE PROTECTED IN PLACE

GENERAL NOTES

SEE VOLUME 14 FOR ALL APPLICABLE CITY OF SAN DIEGO STANDARD DETAILS

SEE SHEET L-501 FOR PLANTING LEGEND, GRAPHIC SYMBOLS

TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403(1)(10).

A MINIMUM ROOT ZONE OF 40 SF IN AREA SHALL BE PROVIDED FOR ALL TREES. A MINIMUM DIMENSION FOR THIS AREA SHALL BE 5 FEET SDMC 142.0403(1)(5).

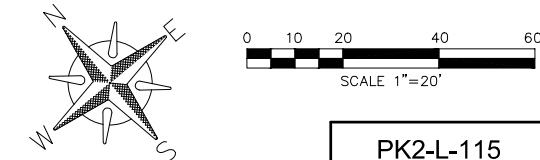
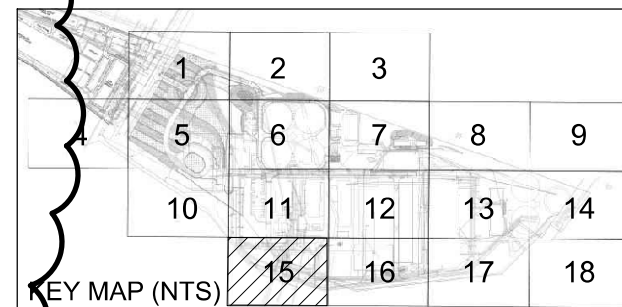
TREE ROOT BARRIERS SHALL BE INSTALLED WHERE TREES ARE PLACED WITHIN 5' (FEET) OF PUBLIC IMPROVEMENTS INCLUDING WALKS, CURBS, OR STREET PAVEMENTS, OR WHERE NEW PUBLIC IMPROVEMENTS ARE PLACED ADJACENT TO EXISTING TREES. THE ROOT BARRIER WILL NOT WRAP AROUND THE ROOT BALL

IF ANY REQUIRED LANDSCAPE INDICATED ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPLACED IN KIND AND OF EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF DAMAGE. REPLACEMENT SHALL BE AT CONTRACTORS EXPENSE (NO EXPENSE TO OWNER).

MINIMUM TREE SEPARATION DISTANCE

- TRAFFIC SIGNALS/STOP SIGNS - 20 FEET
- UNDERGROUND UTILITY LINES, DRIVEWAY APRON FLARE - 5 FEET
- SEWER LINES - 10 FEET
- ABOVE GROUND UTILITY STRUCTURES - 10 FEET
- DRIVEWAY ENTRIES - 10 FEET
- INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET
- ROOT BARRIER - NOTE: FOR PLAN CLARITY, ROOT BARRIERS MAY BE SHOWN OUTSIDE OF PLANTING AREA. WHERE THIS OCCURS ON PLAN, ROOT BARRIER FOR CONSTRUCTION PURPOSES TO BE PLACED AT INSIDE FACE OF CURB PER DETAIL.

CALL DIG ALERT BEFORE ANY TRENCHING

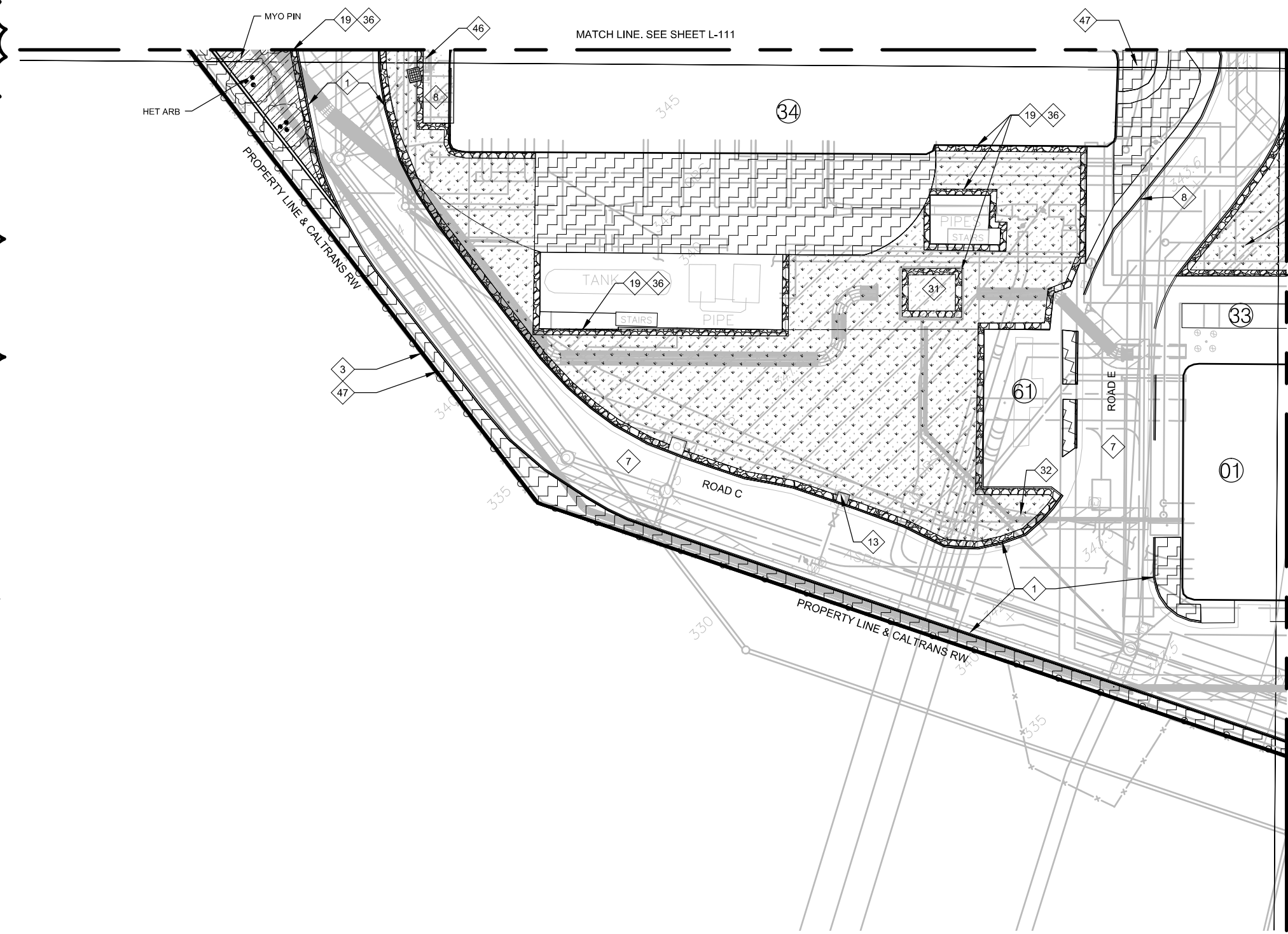


PK2-L-115

NCPWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE PLANTING PLAN - AREA 15

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 127 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C70321	SUBMITTED BY MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME Andrea Demich	RCE#	CHECKED BY THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED [Signature]	DATE 1/15/21	FILM 260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
CONTRACTOR INSPECTOR	DATE STARTED	DATE COMPLETED
		40381-20123-0



WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

NOTE: PLEASE REFER TO THE GRADING PLANS FOR FINISH GRADE ELEVATIONS

MARUM PARTNERSHIP

10680 TREENA STREET SUITE 100
SAN DIEGO, CA 92131
PHONE: 619-992-9533

CONSULTANT

DIGITALLY SIGNED: 01/06/2021

KEYNOTES

- | | | | | | |
|----|--|----|---|----|---|
| 1 | EXISTING OR NEW CONCRETE CURB PER CIVIL | 18 | EXISTING TO REMAIN OR NEW RIP-RAP PER CIVIL | 36 | 24" WIDE ROCK BAND |
| 3 | SECURITY FENCE PER CIVIL | 19 | ROCK MULCH PER LEGEND | 40 | WATER LINE PER CIVIL |
| 8 | NEW OR EXISTING CONCRETE PAVING (PEDESTRIAN) PER CIVIL | 23 | BIO-BASIN PER CIVIL | 43 | CONCRETE SWALE PER CIVIL |
| 13 | FIRE HYDRANT PER CIVIL | 27 | FIRE LINE PER CIVIL | 46 | CATCH BASIN PER CIVIL |
| 15 | STORM DRAIN PER CIVIL | 31 | UTILITY VAULT PER CIVIL | 47 | EXISTING LANDSCAPE TO BE PROTECTED IN PLACE |
| 16 | STORMWATER STRUCTURE PER CIVIL | 32 | NEW OR EXISTING SITE LIGHTING PER CIVIL | 48 | EXISTING OR NEW ELECTRICAL LINE |

GENERAL NOTES

SEE VOLUME 14 FOR ALL APPLICABLE CITY OF SAN DIEGO STANDARD DETAILS
 SEE SHEET L-501 FOR PLANTING LEGEND, GRAPHIC SYMBOLS
 TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403()(10).

A MINIMUM ROOT ZONE OF 40 SF IN AREA SHALL BE PROVIDED FOR ALL TREES. A MINIMUM DIMENSION FOR THIS AREA SHALL BE 5 FEET SDMC 142.0403()(5).

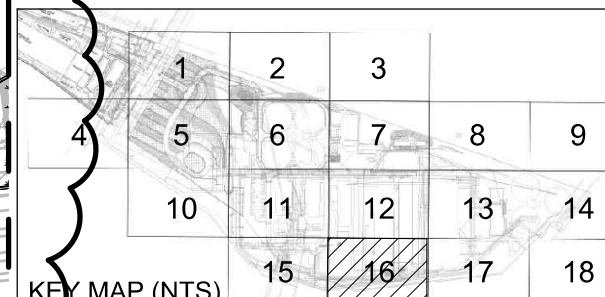
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MINIMUM TREE SEPARATION DISTANCE

- TRAFFIC SIGNALS/STOP SIGNS - 20 FEET
- UNDERGROUND UTILITY LINES, DRIVEWAY APRON FLARE - 5 FEET
- SEWER LINES - 10 FEET
- ABOVE GROUND UTILITY STRUCTURES - 10 FEET
- DRIVEWAY ENTRIES - 10 FEET
- INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET
- ROOT BARRIER - NOTE: FOR PLAN CLARITY, ROOT BARRIERS MAY BE SHOWN OUTSIDE OF PLANTING AREA, WHERE THIS OCCURS ON PLAN, ROOT BARRIER FOR CONSTRUCTION PURPOSES TO BE PLACED AT INSIDE FACE OF CURB PER DETAIL.

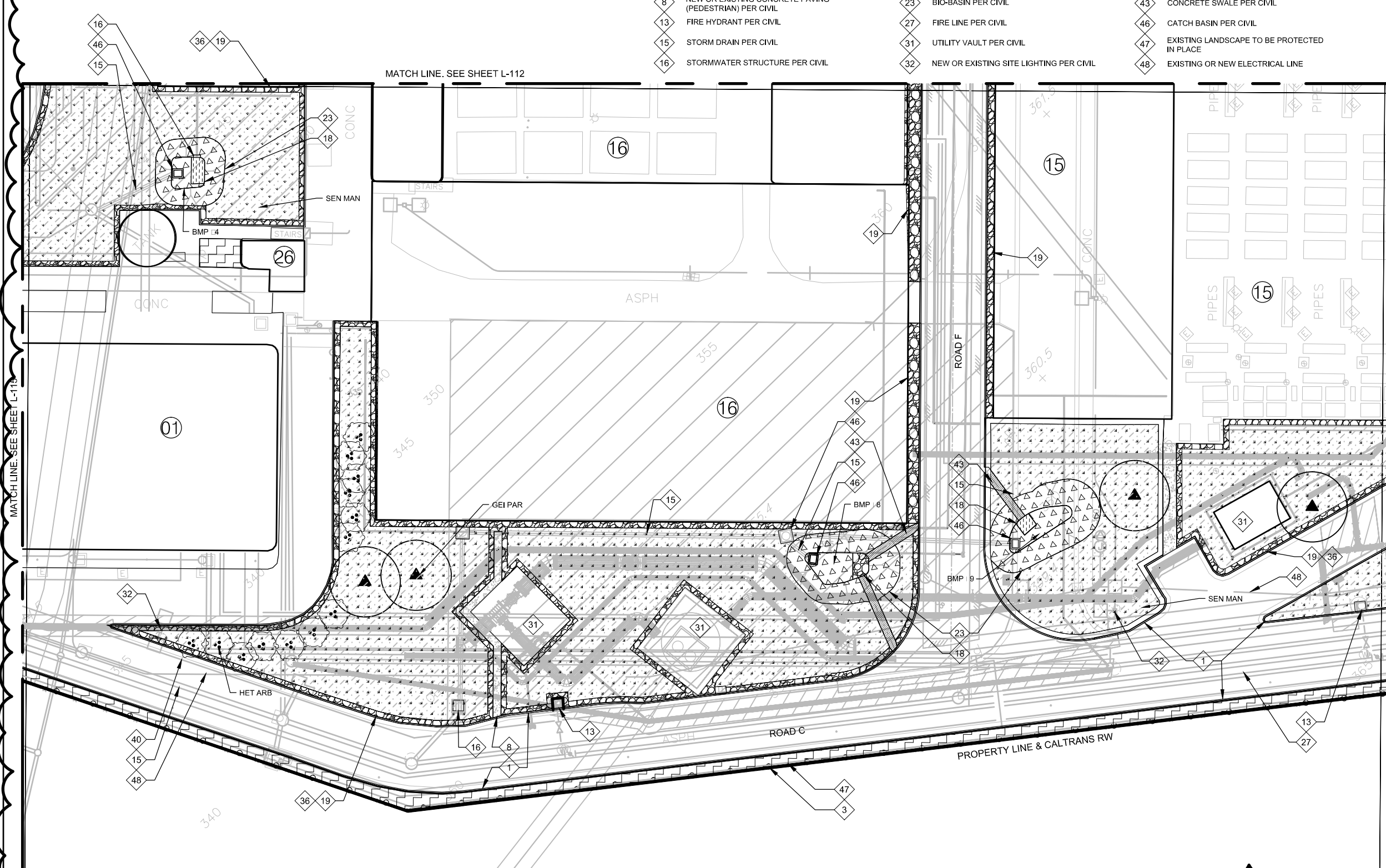
CALL DIG ALERT BEFORE ANY TRENCHING



PK2-L-116

NCPWF EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE PLANTING PLAN - AREA 16



MATCH LINE - SEE SHEET L-118

MATCH LINE - SEE SHEET L-112

MATCHLINE - SEE SHEET L-117

NOTE: PLEASE REFER TO THE GRADING PLANS FOR FINISH GRADE ELEVATIONS

WARNING
 0 1
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CONSULTANT
MARUM PARTNERSHIP
 10680 TREENA STREET SUITE 100
 SAN DIEGO, CA 92131
 PHONE: 619-992-9533



DIGITALLY SIGNED: 01/06/2021

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 128 OF 1169 SHEETS				B-16149, S-17012 WS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020	SUBMITTED BY MONIKA SMOCZYNSKI PROJECT MANAGER		
PRINT DCE NAME Andrea Demich	RCE# C70321	CHECKED BY THIEN-LONG TRAN PROJECT ENGINEER		
DESCRIPTION Addendum A	BY CH	APPROVED [Signature]	DATE 1/15/21	
			FILM	
			260-1709	
			CCS27 COORDINATE	
			1900-6269	
			CCS83 COORDINATE	
CONTRACTOR	INSPECTOR	DATE STARTED	DATE COMPLETED	
			40381-20124-D	

KEYNOTES

- | | | | | | |
|----|---|----|---|----|---------------------------------|
| 1 | EXISTING OR NEW CONCRETE CURB PER CIVIL | 16 | STORMWATER STRUCTURE PER CIVIL | 40 | WATER LINE PER CIVIL |
| 2 | TREE TO BE PROTECTED IN PLACE, REFER TO TREE PROTECTION SPECIFICATIONS. | 19 | ROCK MULCH PER LEGEND | 41 | GRAVEL PER CIVIL |
| 3 | SECURITY FENCE PER CIVIL | 24 | SEWER LINE PER CIVIL | 42 | CHEMICAL PER CIVIL |
| 7 | ASPHALT OR CONCRETE ROAD PER CIVIL | 25 | GAS LINE PER CIVIL | 48 | EXISTING OR NEW ELECTRICAL LINE |
| 8 | NEW OR EXISTING CONCRETE PAVING (PEDESTRIAN) PER CIVIL | 27 | FIRE LINE PER CIVIL | | |
| 13 | FIRE HYDRANT PER CIVIL | 32 | NEW OR EXISTING SITE LIGHTING PER CIVIL | | |
| 15 | STORM DRAIN PER CIVIL | 36 | 24" WIDE ROCK BAND | | |

GENERAL NOTES

SEE VOLUME 14 FOR ALL APPLICABLE CITY OF SAN DIEGO STANDARD DETAILS

SEE SHEET L-502 FOR PLANTING LEGEND, GRAPHIC SYMBOLS

TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403() (10).

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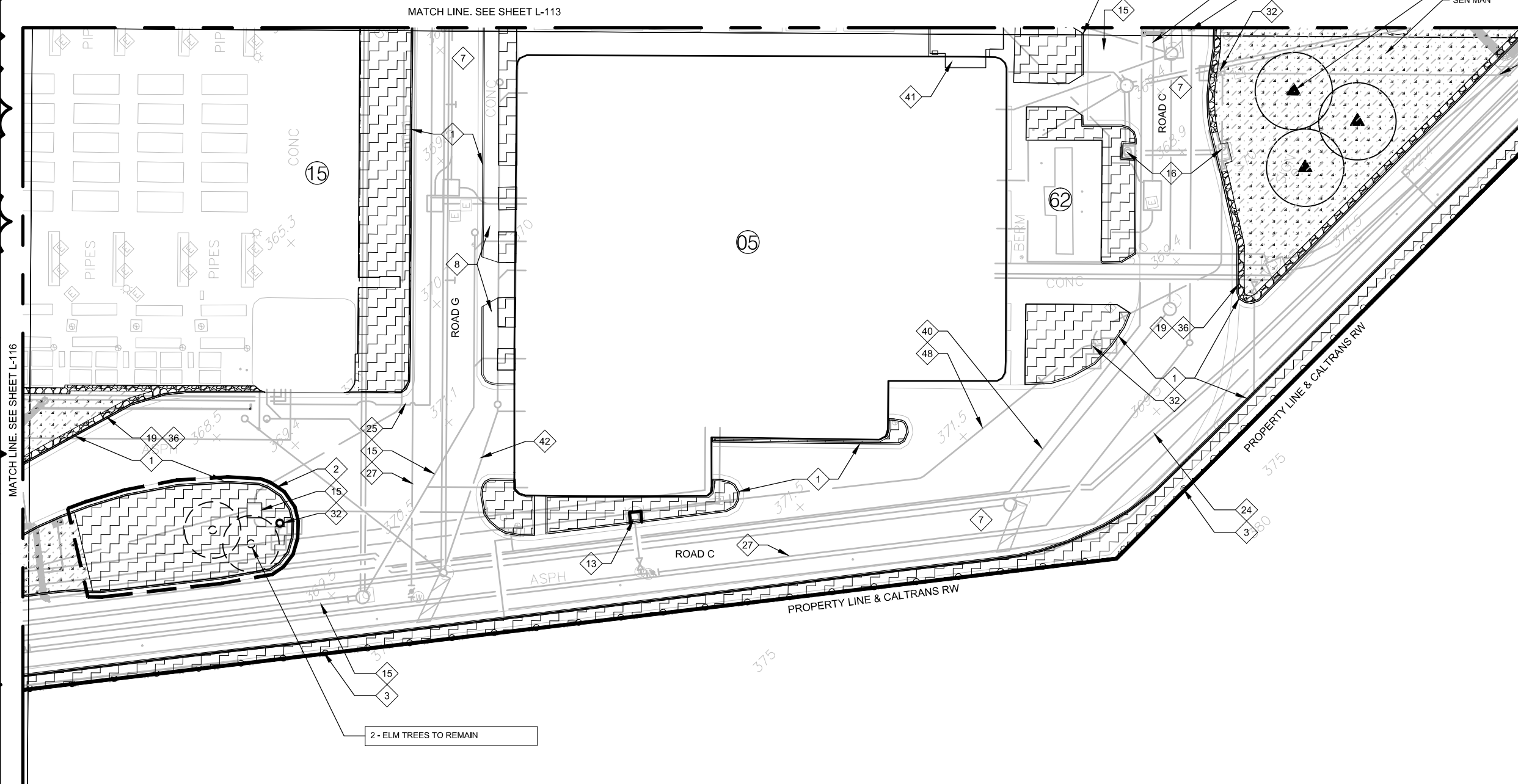
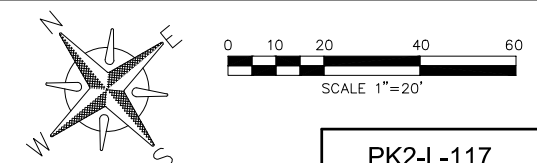
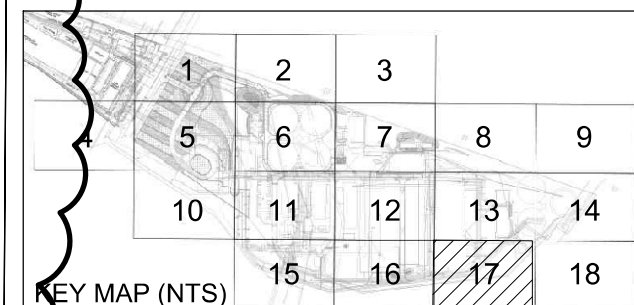
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IF ANY REQUIRED LANDSCAPE INDICATED ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPLACED IN KIND AND OF EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF DAMAGE. REPLACEMENT SHALL BE AT CONTRACTORS EXPENSE (NO EXPENSE TO OWNER).

MINIMUM TREE SEPARATION DISTANCE

- TRAFFIC SIGNALS/STOP SIGNS - 20 FEET
- UNDERGROUND UTILITY LINES, DRIVEWAY APRON FLARE - 5 FEET
- SEWER LINES - 10 FEET
- ABOVE GROUND UTILITY STRUCTURES - 10 FEET
- DRIVEWAY ENTRIES - 10 FEET
- INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET
- ROOT BARRIER - NOTE: FOR PLAN CLARITY, ROOT BARRIERS MAY BE SHOWN OUTSIDE OF PLANTING AREA. WHERE THIS OCCURS ON PLAN, ROOT BARRIER FOR CONSTRUCTION PURPOSES TO BE PLACED AT INSIDE FACE OF CURB PER DETAIL.

CALL DIG ALERT BEFORE ANY TRENCHING



MATCHLINE. SEE SHEET L-116

MATCH LINE. SEE SHEET L-113

2 - ELM TREES TO REMAIN

NOTE: PLEASE REFER TO THE GRADING PLANS FOR FINISH GRADE ELEVATIONS

WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

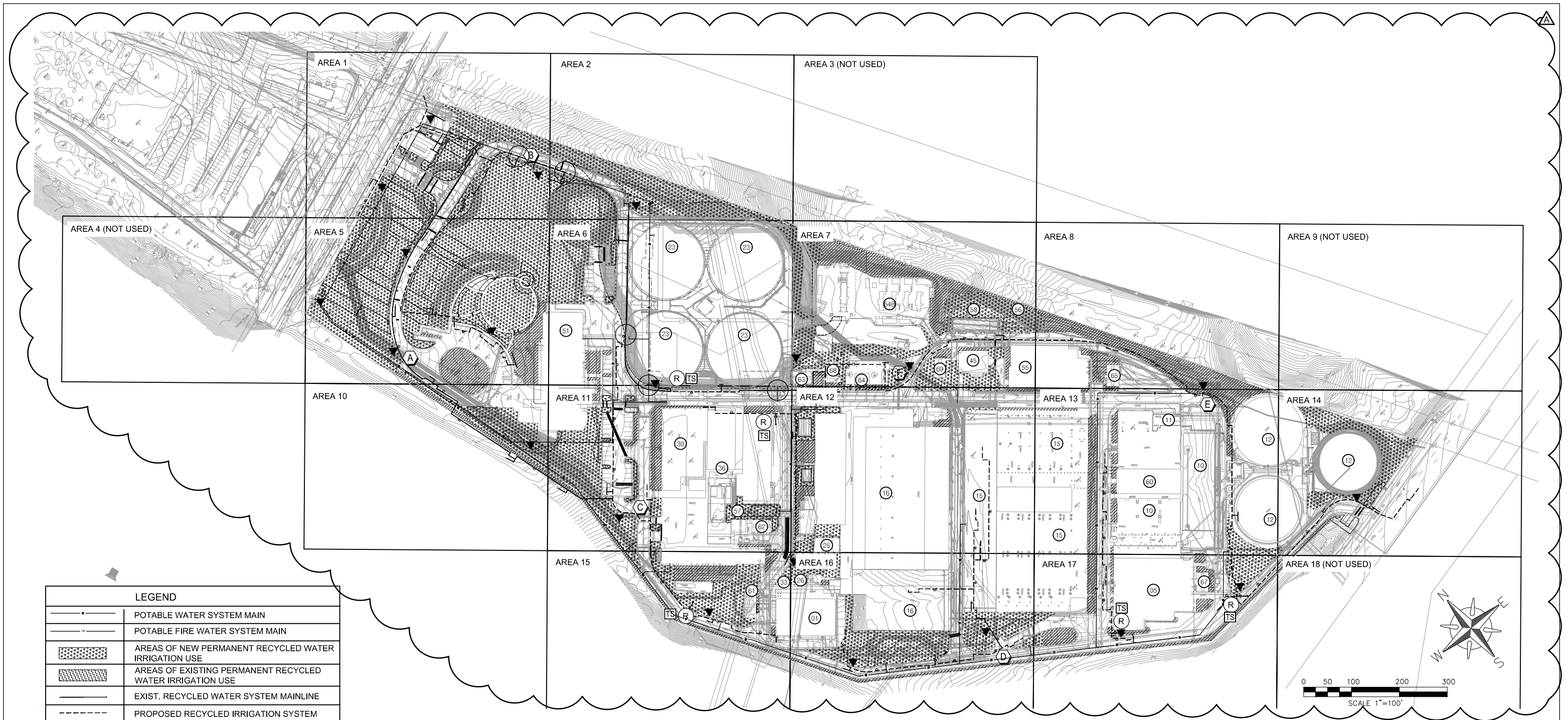
CONSULTANT

MARUM PARTNERSHIP

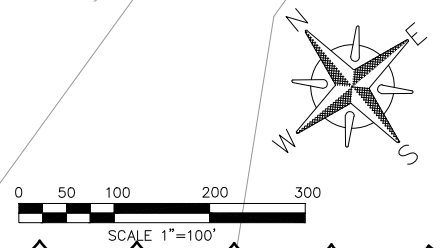
10680 TREENA STREET SUITE 100
SAN DIEGO, CA 92131
PHONE: 619-992-9533

DIGITALLY SIGNED: 01/06/2021

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 123 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C70321	SUBMITTED BY MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	Andrea Demich
		DATE FILM
		1/15/21
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-20125-D
INSPECTOR	DATE COMPLETED	



LEGEND	
	POTABLE WATER SYSTEM MAIN
	POTABLE FIRE WATER SYSTEM MAIN
	AREAS OF NEW PERMANENT RECYCLED WATER IRRIGATION USE
	AREAS OF EXISTING PERMANENT RECYCLED WATER IRRIGATION USE
	EXIST. RECYCLED WATER SYSTEM MAINLINE
	PROPOSED RECYCLED IRRIGATION SYSTEM
	RECYCLED WATER IRRIGATION SYSTEM POINT OF CONNECTION
	IRRIGATION CONTROLLER (LETTER DESIGNATES CONTROLLER I.D.)
	WATER TEST STATION
	"DO NOT DRINK" SITE SIGN LOCATIONS
	LOCATION OF CROSSOVERS OF PROPOSED POTABLE WATER SYSTEM & PROPOSED IRRIGATION SYSTEM MAINLINE. IRRIGATION MAIN TO BE SLEEVED PER NOTES ON SHEET L-605 AND DETAILS A & B/L-606.



PK2-L-200

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

IRRIGATION SITE PLAN

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 130 OF 1169 SHEETS		B-16149,S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER PRINT DGE NAME: Andrea Demich RCE#	DATE: 12/03/2020 CT0321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER 260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Andrea Demich</i>
		DATE FILM
		1/15/21
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
		40381-20130-D

CONSULTANT

STUDIO WEST
LANDSCAPE ARCHITECTURE & PLANNING
3425 Ruffin Rd., Suite 108
San Diego, CA 92123
Ph 858.598.5065

MICHELLE M. LANDIS
20144
REGISTERED LANDSCAPE ARCHITECT
STATE OF CALIFORNIA
REIN. 04/30/2022

DIGITALLY SIGNED: 01/06/2021

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

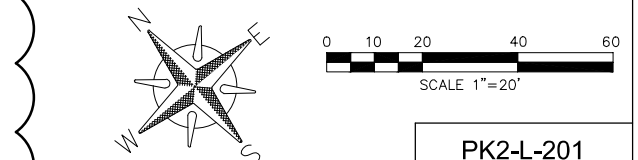
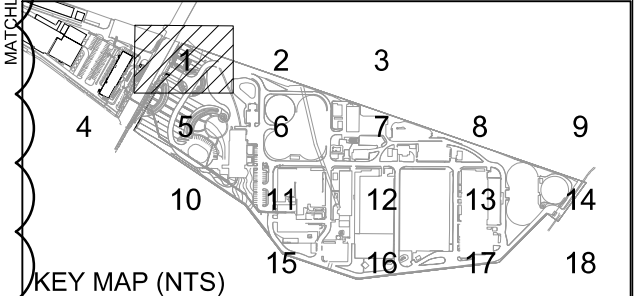


KEY NOTES:

- 1 PROPERTY LINE
- 2 EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
- 3 EXISTING MAINLINE, TYP.
- 4 CAP AND ABANDON EXISTING MAINLINE, TYP.
- 5 ADD NEW MAINLINE, TYP.
- 6 MAINLINE SLEEVE WITH NEW 2-WIRE SLEEVE, TYP.
- 7 LATERAL LINE SLEEVE, TYP.
- 8 EXISTING CONTROLLER LOCATION, REPLACE CONTROLLER PER IRRIGATION LEGEND
- 9 EXISTING LANDSCAPE AREA, PROTECT IN PLACE PER PROJECT SPECIFICATIONS, TYP.
- 10 RELOCATE EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
- 11 ADD A PRESSURE REGULATOR, MASTER VALVE AND FLOW SENSING AT ALL POINT OF CONNECTIONS, PER SPECS AND DETAILS.
- 12 INSTALL RECYCLED WATER SIGN, TYP.
- 13 TIE NEW HEADS TO EXISTING IRRIGATION IN THIS AREA, ADJUST HEAD TYPE AS NEEDED TO BE COMPATIBLE WITH EXISTING EQUIPMENT.
- 14 RECYCLED MAINLINE CROSSING OVER POTABLE WATER LINE SLEEVE LOCATION PER DETAIL.

EXISTING IRRIGATION SYSTEM NOTES:

1. THIS PROJECT INCLUDES AREAS OF EXISTING IRRIGATION AND PLANTING, IN AREAS THAT ARE NOT DISTURBED BY NEW CONSTRUCTION:
 - A. ENSURE EXISTING PLANTING IS MAINTAINED AND WATERED DURING CONSTRUCTION.
 - B. VERIFY THE PROPER OPERATION OF ALL EXISTING ZONES, REPAIR ANY IRRIGATION EQUIPMENT FOUND TO BE NOT OPERATING PROPERLY.
 - C. IN MANY AREAS EXISTING LANDSCAPE ZONES WILL BE REDUCED. REFER TO AS-BUILT PLANS AND CUT AND RECONNECT ZONES AS NEEDED TO MAINTAIN PROPER OPERATION.
 - D. CONNECT ALL EXISTING VALVE ZONES TO THE NEW CONTROL SYSTEM.



PK2-L-201
 NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION

LANDSCAPE IRRIGATION PLAN AREA 1

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 131 OF 1169 SHEETS		B-16149,S-17012 WBS B-15142
APPROVED: FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME Andrea Demich	RCE#	CREATED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	Andrea Demich
		DATE
		1/15/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-20131-D
INSPECTOR	DATE COMPLETED	

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

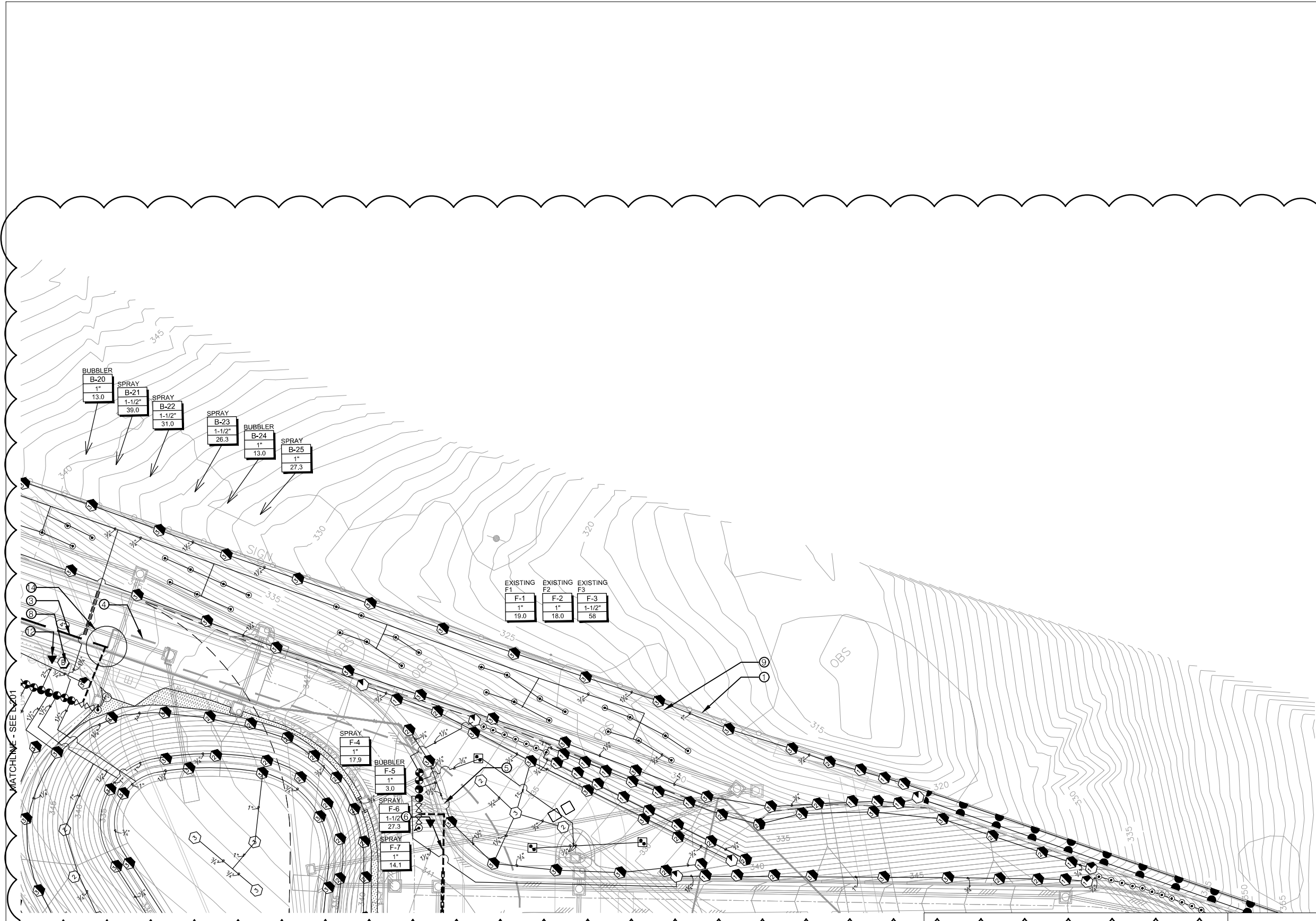
CONSULTANT

STUDIO WEST
LANDSCAPE ARCHITECTURE & PLANNING
3625 Ruffin Rd., Suite 108
San Diego, CA 92123
Ph 858.598.5085

DIGITALLY SIGNED: 01/06/2021

CONTRACTOR

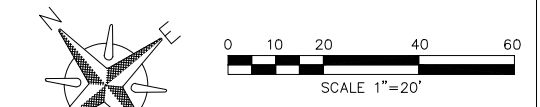
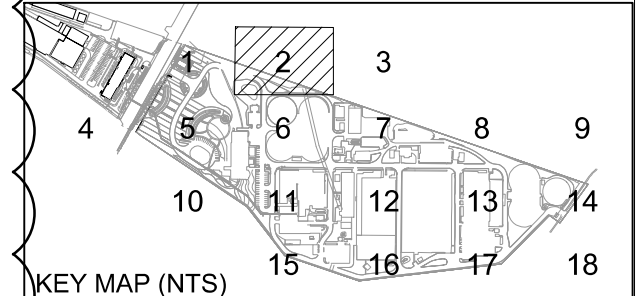
INSPECTOR



- KEY NOTES:**
- ① PROPERTY LINE
 - ② EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
 - ③ EXISTING MAINLINE, TYP.
 - ④ CAP AND ABANDON EXISTING MAINLINE, TYP.
 - ⑤ ADD NEW MAINLINE, TYP.
 - ⑥ MAINLINE SLEEVE WITH NEW 2-WIRE SLEEVE, TYP.
 - ⑦ LATERAL LINE SLEEVE, TYP.
 - ⑧ EXISTING CONTROLLER LOCATION, REPLACE CONTROLLER PER IRRIGATION LEGEND
 - ⑨ EXISTING LANDSCAPE AREA, PROTECT IN PLACE PER PROJECT SPECIFICATIONS, TYP.
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 - D. CONNECT ALL EXISTING VALVE ZONES TO THE NEW CONTROL SYSTEM.

EXISTING F1	EXISTING F2	EXISTING F3
1"	1"	1-1/2"
19.0	18.0	58



PK2-L-202
 NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE IRRIGATION PLAN AREA 2

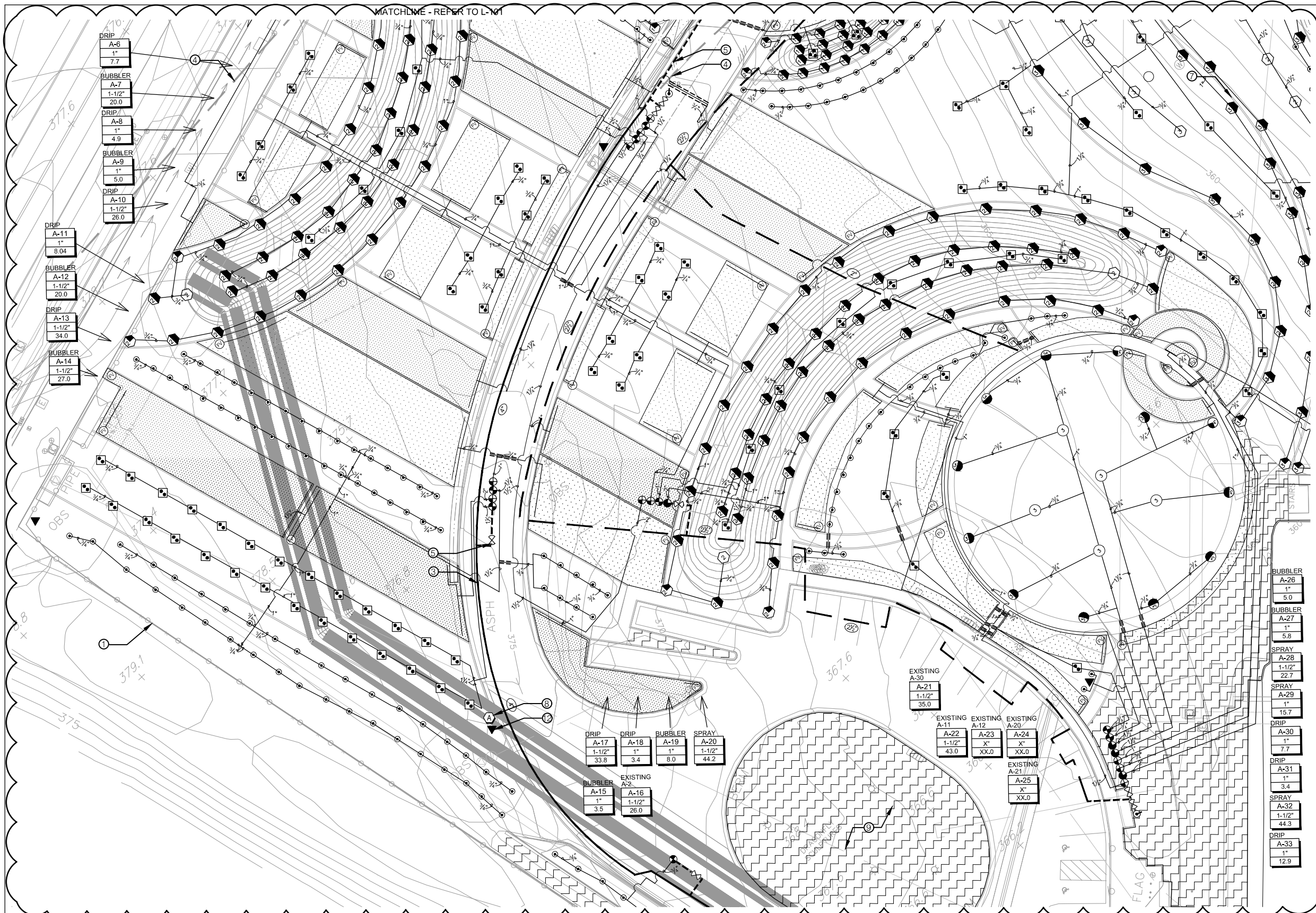
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 132 OF 1169 SHEETS		B-16149,S-17012 WBS B-15142
APPROVED: <i>Michelle M. Landis</i> FOR CITY ENGINEER	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: <i>Andrea Demich</i>	RCE#: C70321	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Michelle M. Landis</i>
		DATE FILM
		1/15/21
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-20132-D
INSPECTOR	DATE COMPLETED	

WARNING
 0 1
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DIGITALLY SIGNED: 01/06/2021

MATCHLINE - REFER TO L-101



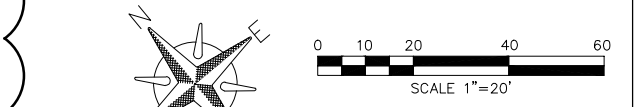
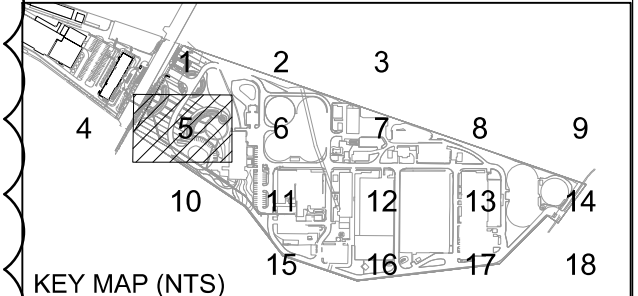
KEY NOTES:

- 1 PROPERTY LINE
- 2 EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
- 3 EXISTING MAINLINE, TYP.
- 4 CAP AND ABANDON EXISTING MAINLINE, TYP.
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 - D. CONNECT ALL EXISTING VALVE ZONES TO THE NEW CONTROL SYSTEM.

MATCHLINE - SEE L-206



PK2-L-205

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE IRRIGATION PLAN AREA 5

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 133 OF 1169 SHEETS		B-16149,S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER DATE 12/03/2020	DATE 12/03/2020 RCE# CT0321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	RCE#	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	APPROVED <i>Andrea Demich</i>
DATE 1/15/21	FILM	260-1709 CCS27 COORDINATE
		1900-6269 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-20133-D
INSPECTOR	DATE COMPLETED	

CONSULTANT

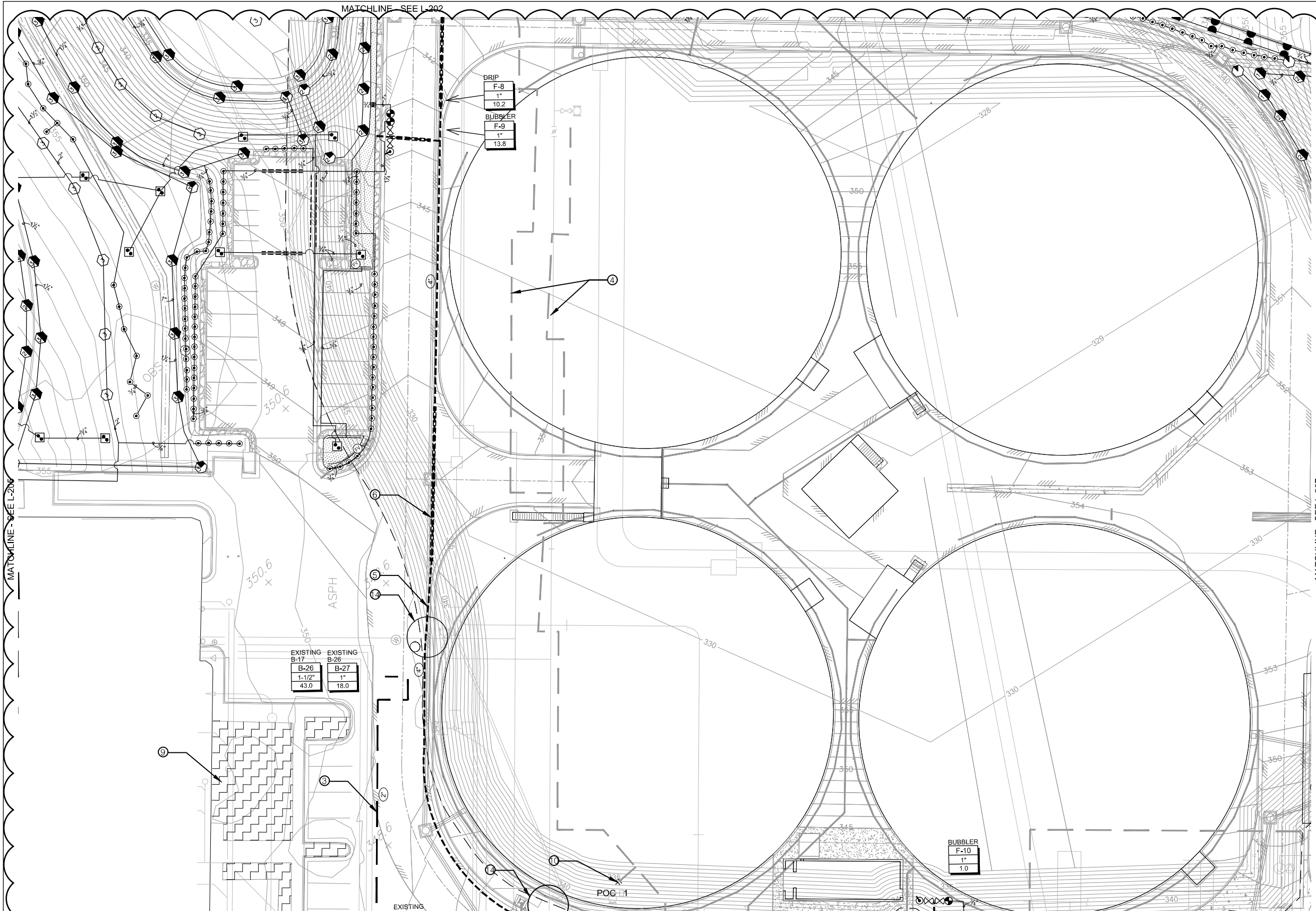
STUDIO WEST
LANDSCAPE ARCHITECTURE & PLANNING
3425 Ruffin Rd., Suite 108
San Diego, CA 92123
Ph 858.598.5085

WARNING

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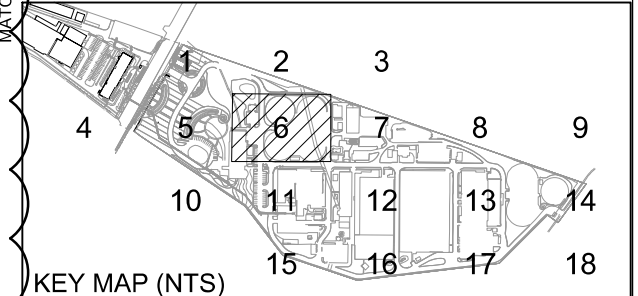


DIGITALLY SIGNED: 01/06/2021



- KEY NOTES:**
- 1 PROPERTY LINE
 - 2 EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
 - 3 EXISTING MAINLINE, TYP.
 - 4 CAP AND ABANDON EXISTING MAINLINE, TYP.
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PK2-L-206

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE IRRIGATION PLAN AREA 6

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 134 OF 1169 SHEETS		B-16149,S-17012 WBS B-15142
APPROVED: <i>Janine Davis</i> FOR CITY ENGINEER PRINT: DCE NAME: Andrea Demich	DATE: 12/03/2020 RCE#: CT0321	ISSUED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION	BY	APPROVED
Addendum A	CH	<i>Janine Davis</i>
DATE	FILM	
1/15/21		
CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER		260-1709 CCS27 COORDINATE
		1900-6269 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-20134-D
INSPECTOR	DATE COMPLETED	

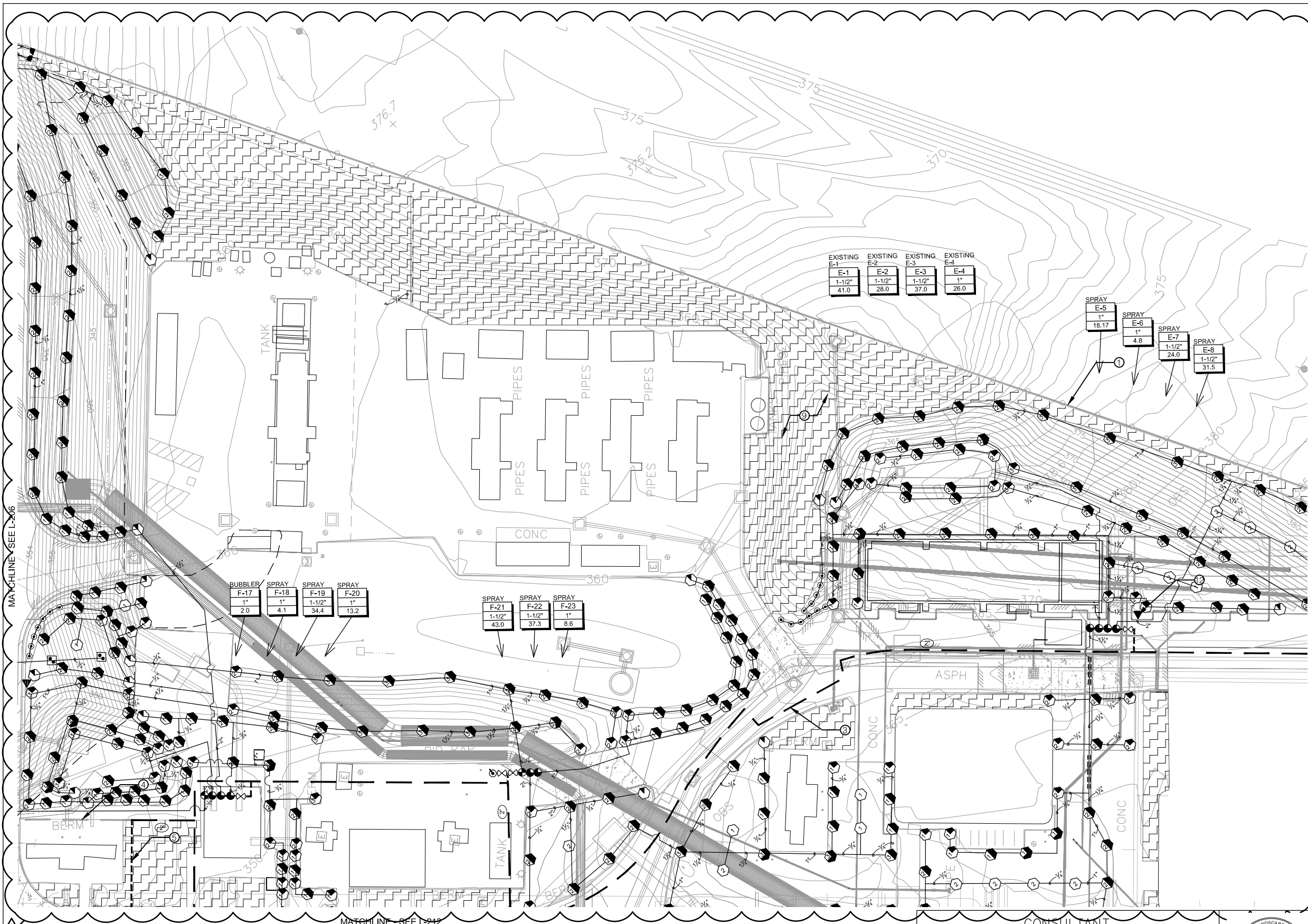
CONSULTANT

WARNING

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STUDIO WEST
LANDSCAPE ARCHITECTURE & PLANNING
3425 Ruffin Rd., Suite 108
San Diego, CA 92123
Ph 858.598.5085

DIGITALLY SIGNED: 01/06/2021

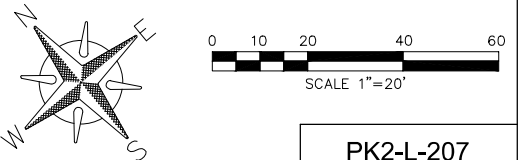
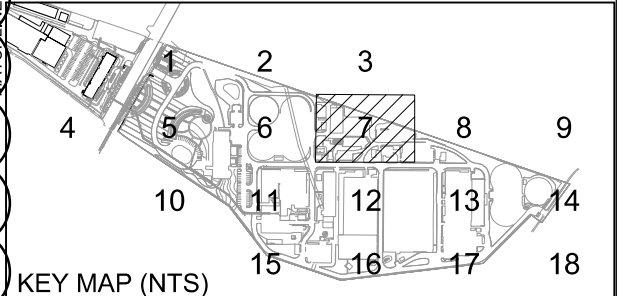


KEY NOTES:

- ① PROPERTY LINE
- ② EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
- ③ EXISTING MAINLINE, TYP.
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PK2-L-207

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION

**LANDSCAPE IRRIGATION PLAN
AREA 7**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 135 OF 1169 SHEETS		B-16149,S-17012 WBS B-15142
APPROVED: <i>Jan David</i> FOR CITY ENGINEER	DATE: 12/03/2020	DESIGNED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DGE NAME: Andrea Demich	RCE#: CT0321	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION: Addendum A	BY: CH	DATE: 1/15/21
APPROVED: <i>Jan David</i>	DATE: 1/15/21	FILM: 260-1709 CCS27 COORDINATE
		1900-6269 CCS83 COORDINATE
CONTRACTOR: _____	INSPECTOR: _____	DATE STARTED: _____ DATE COMPLETED: _____



DIGITALLY SIGNED: 01/06/2021

WARNING
0 1
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CONSULTANT

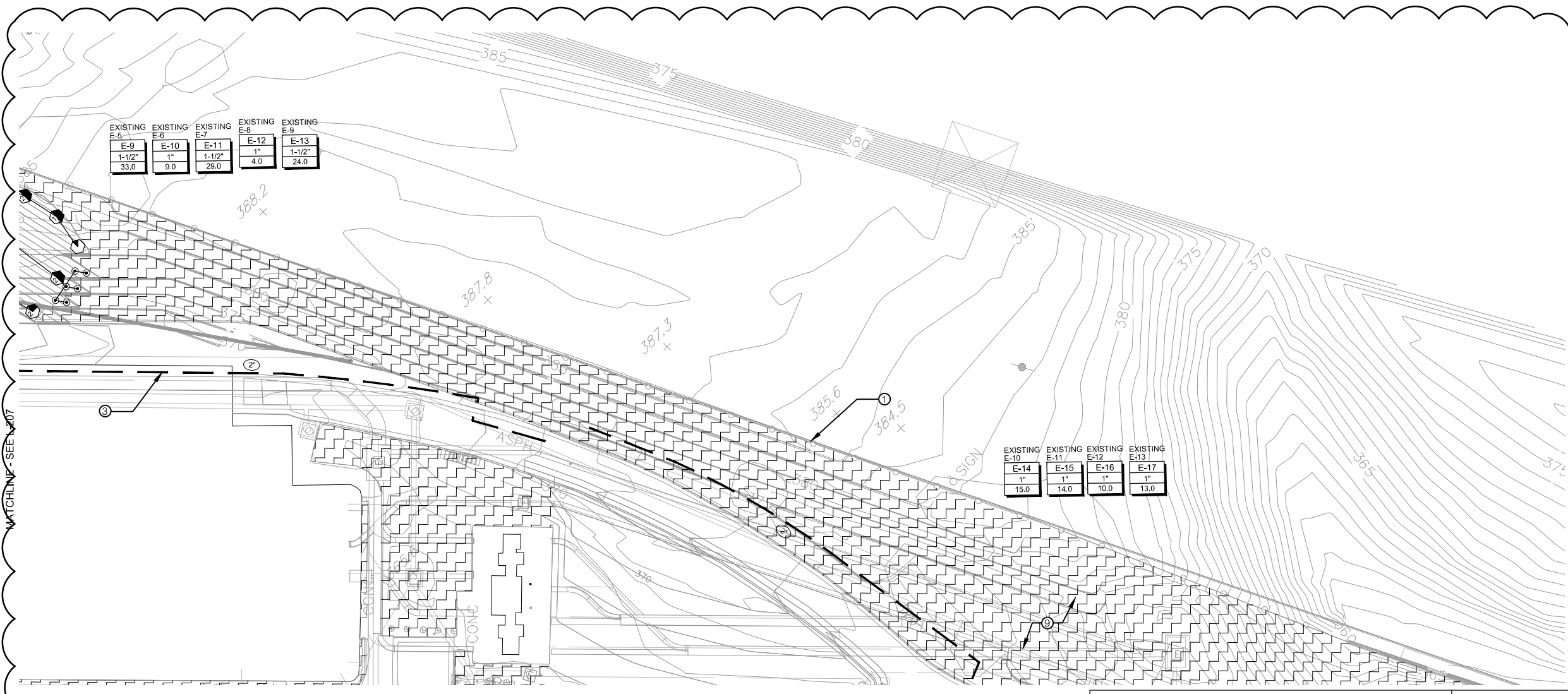
STUDIO WEST
LANDSCAPE ARCHITECTURE & PLANNING
3425 Ruffin Rd., Suite 108
San Diego, CA 92123
Ph 858.598.5085

KEY NOTES:

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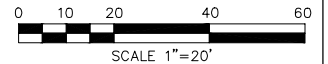
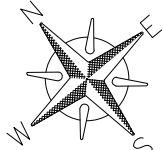
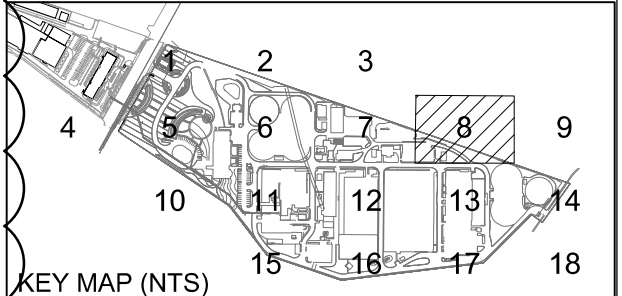
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EXISTING E-9	EXISTING E-10	EXISTING E-11	EXISTING E-12	EXISTING E-13
1-1/2"	1"	1-1/2"	1"	1-1/2"
33.0	9.0	29.0	4.0	24.0

EXISTING E-14	EXISTING E-15	EXISTING E-16	EXISTING E-17
1"	1"	1"	1"
15.0	14.0	10.0	13.0



PK2-L-208

MCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE IRRIGATION PLAN AREA 8

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 136 OF 1169 SHEETS

B-16149,S-17012
WBS B-15142

APPROVED: <i>Janie Smith</i>	DATE: 12/03/2020	FOR CITY ENGINEER: Andrea Demich	RCE#: C70321	PROJECT MANAGER: MONIKA SMOCZYNSKI
DESCRIPTION: Addendum A	BY: CH	APPROVED: <i>Janie Smith</i>	DATE FILM: 1/15/21	PROJECT ENGINEER: THIEN-LONG TRAN
				260-1709
				CCS27 COORDINATE
				1900-6269
				CCS83 COORDINATE



DIGITALLY SIGNED: 01/06/2021

CONSULTANT

STUDIO WEST
LANDSCAPE ARCHITECTURE & PLANNING
3625 Ruffin Rd., Suite 108
San Diego, CA 92123
Ph 858.598.5085

WARNING
0 1
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CONTRACTOR	DATE STARTED	INSPECTOR	DATE COMPLETED

40381-20136-D

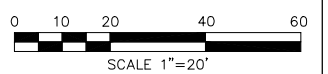
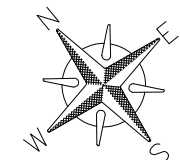
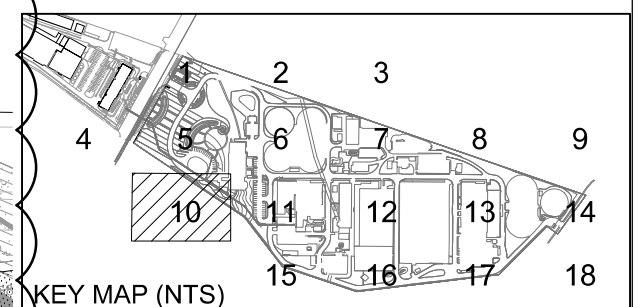
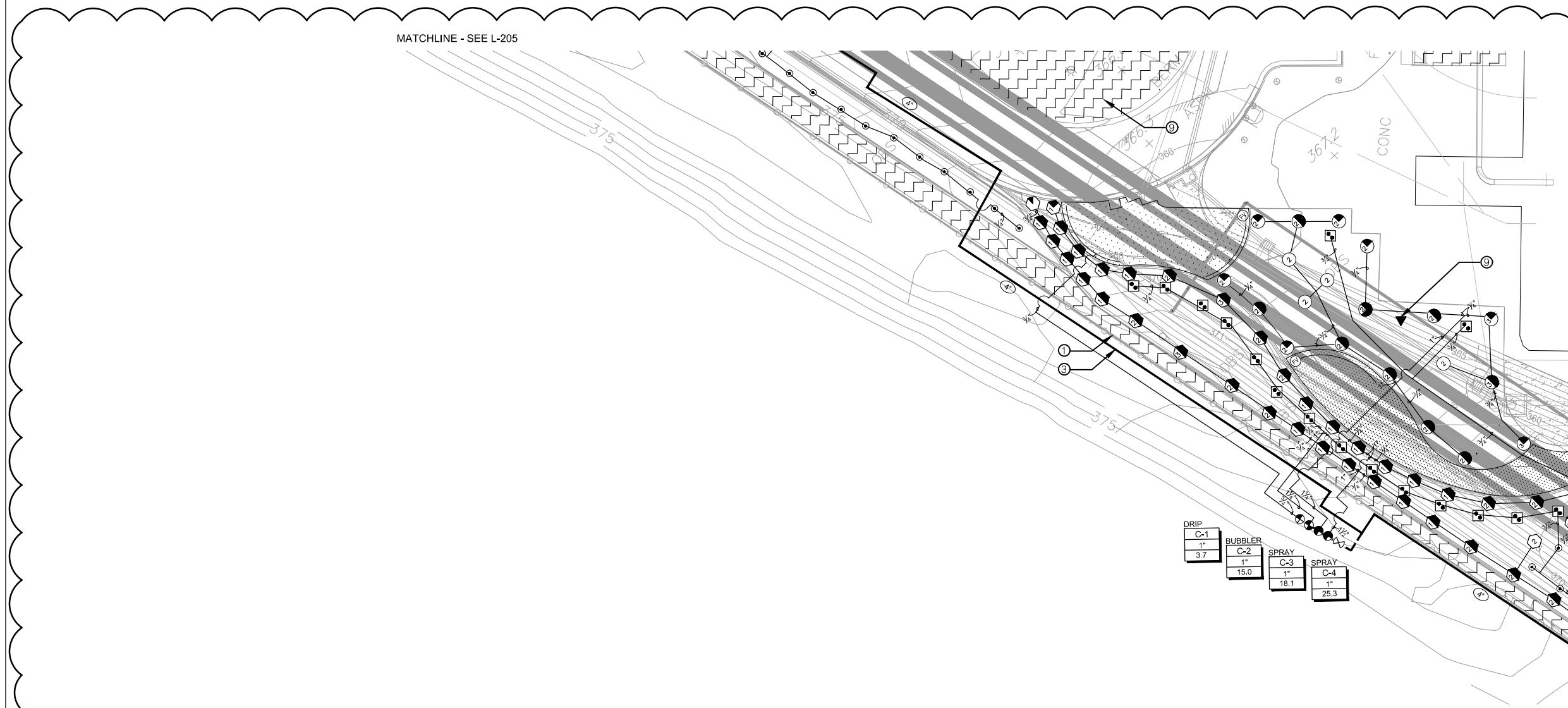
KEY NOTES:

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- ② EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
- ③ EXISTING MAINLINE, TYP.
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- ⑨ EXISTING LANDSCAPE AREA, PROTECT IN PLACE PER PROJECT SPECIFICATIONS, TYP.
- ⑩ RELOCATE EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
- ⑪ ADD A PRESSURE REGULATOR, MASTER VALVE AND FLOW SENSING AT ALL POINT OF CONNECTIONS, PER SPECS AND DETAILS.
- ⑫ INSTALL RECYCLED WATER SIGN, TYP.
- ⑬ TIE NEW HEADS TO EXISTING IRRIGATION IN THIS AREA. ADJUST HEAD TYPE AS NEEDED TO BE COMPATIBLE WITH EXISTING EQUIPMENT.
- ⑭ RECYCLED MAINLINE CROSSING OVER POTABLE WATER LINE SLEEVE LOCATION PER DETAIL.

EXISTING IRRIGATION SYSTEM NOTES:

1. THIS PROJECT INCLUDES AREAS OF EXISTING IRRIGATION AND PLANTING, IN AREAS THAT ARE NOT DISTURBED BY NEW CONSTRUCTION:
 - A. ENSURE EXISTING PLANTING IS MAINTAINED AND WATERED DURING CONSTRUCTION.
 - B. VERIFY THE PROPER OPERATION OF ALL EXISTING ZONES, REPAIR ANY IRRIGATION EQUIPMENT FOUND TO BE NOT OPERATING PROPERLY.
 - C. IN MANY AREAS EXISTING LANDSCAPE ZONES WILL BE REDUCED. REFER TO AS-BUILT PLANS AND CUT AND RECONNECT ZONES AS NEEDED TO MAINTAIN PROPER OPERATION.
 - D. CONNECT ALL EXISTING VALVE ZONES TO THE NEW CONTROL SYSTEM.

MATCHLINE - SEE L-205



PK2-L-210

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

**LANDSCAPE IRRIGATION PLAN
AREA 10**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 137 OF 1169 SHEETS		B-16149,S-17012 WBS B-15142
APPROVED: <i>Janine Smith</i> FOR CITY ENGINEER	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	RCE#: CT0321	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Janine Smith</i>
		DATE
		1/15/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-20137-D
INSPECTOR	DATE COMPLETED	

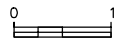
CONSULTANT



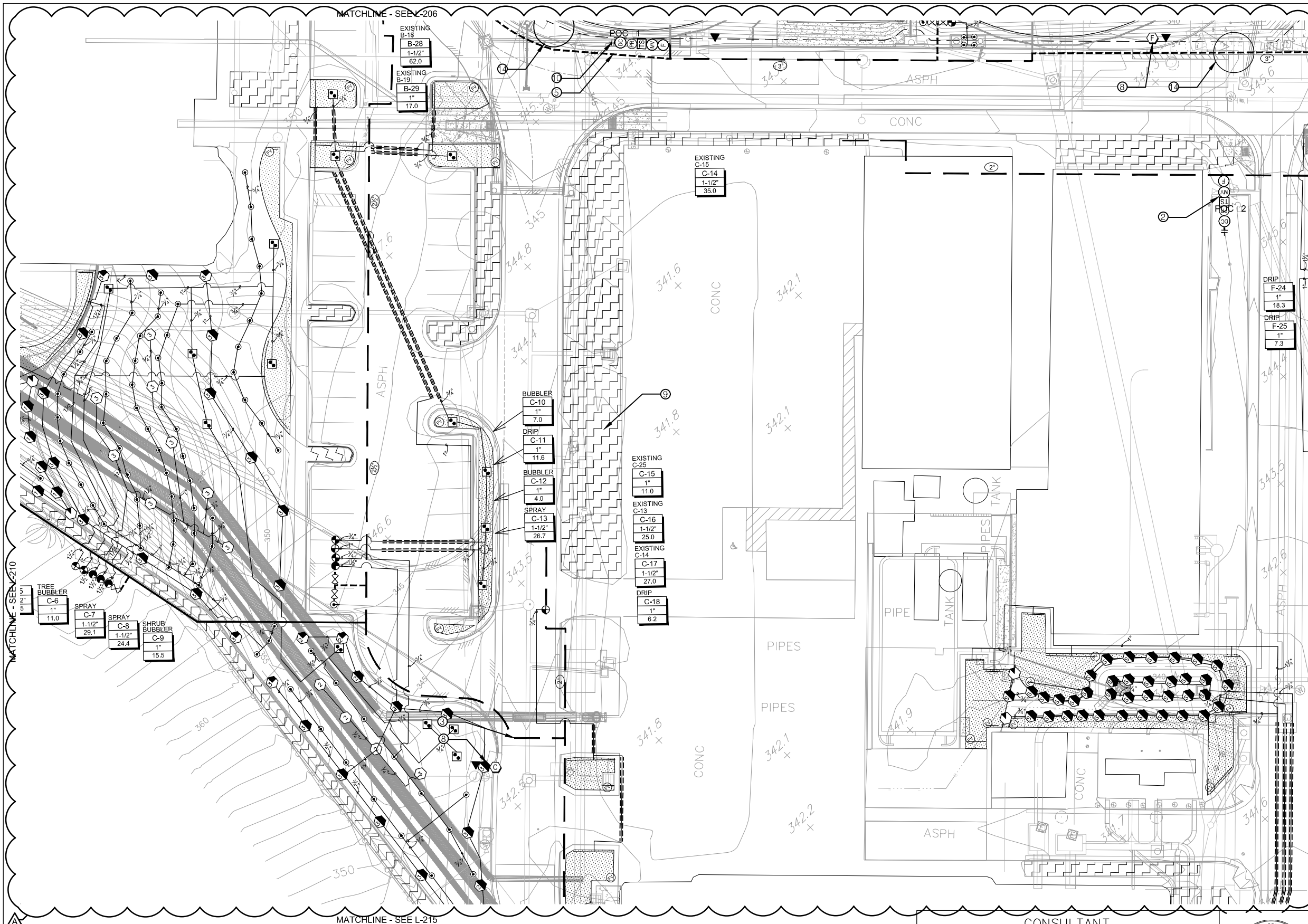
STUDIO WEST
LANDSCAPE ARCHITECTURE
& PLANNING
3625 Ruffin Rd., Suite 108
San Diego, CA 92123
Ph 858.598.5085

DIGITALLY SIGNED: 01/06/2021

WARNING

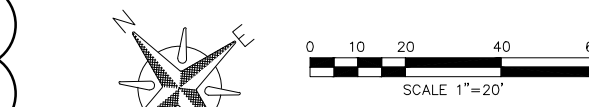
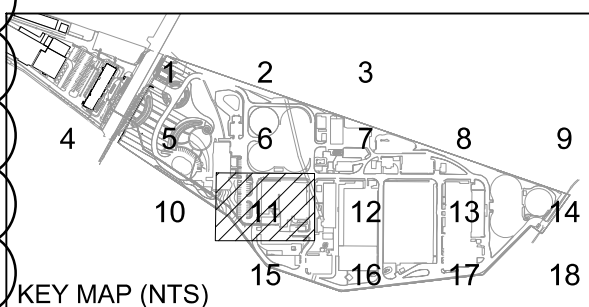


IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



- KEY NOTES:**
- 1 PROPERTY LINE
 - 2 EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
 - 3 EXISTING MAINLINE, TYP.
 - 4 CAP AND ABANDON EXISTING MAINLINE, TYP.
 - 5 ADD NEW MAINLINE, TYP.
 - 6 MAINLINE SLEEVE WITH NEW 2-WIRE SLEEVE, TYP.
 - 7 LATERAL LINE SLEEVE, TYP.
 - 8 EXISTING CONTROLLER LOCATION, REPLACE CONTROLLER PER IRRIGATION LEGEND
 - 9 EXISTING LANDSCAPE AREA, PROTECT IN PLACE PER PROJECT SPECIFICATIONS, TYP.
 - 10 RELOCATE EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
 - 11 ADD A PRESSURE REGULATOR, MASTER VALVE AND FLOW SENSING AT ALL POINT OF CONNECTIONS, PER SPECS AND DETAILS.
 - 12 INSTALL RECYCLED WATER SIGN, TYP.
 - 13 TIE NEW HEADS TO EXISTING IRRIGATION IN THIS AREA, ADJUST HEAD TYPE AS NEEDED TO BE COMPATIBLE WITH EXISTING EQUIPMENT.
 - 14 RECYCLED MAINLINE CROSSING OVER POTABLE WATER LINE SLEEVE LOCATION PER DETAIL.

- EXISTING IRRIGATION SYSTEM NOTES:**
1. THIS PROJECT INCLUDES AREAS OF EXISTING IRRIGATION AND PLANTING, IN AREAS THAT ARE NOT DISTURBED BY NEW CONSTRUCTION:
 - A. ENSURE EXISTING PLANTING IS MAINTAINED AND WATERED DURING CONSTRUCTION.
 - B. VERIFY THE PROPER OPERATION OF ALL EXISTING ZONES, REPAIR ANY IRRIGATION EQUIPMENT FOUND TO BE NOT OPERATING PROPERLY.
 - C. IN MANY AREAS EXISTING LANDSCAPE ZONES WILL BE REDUCED, REFER TO AS-BUILT PLANS AND CUT AND RECONNECT ZONES AS NEEDED TO MAINTAIN PROPER OPERATION.
 - D. CONNECT ALL EXISTING VALVE ZONES TO THE NEW CONTROL SYSTEM.



PK2-L-211

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

**LANDSCAPE IRRIGATION PLAN
AREA 11**

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 138 OF 1169 SHEETS

APPROVED BY: <i>Janine Smith</i>	DATE: 12/03/2020	PROJECT MANAGER: MONIKA SMOCZYNSKI
FOR CITY ENGINEER: Andrea Demich	DATE: 07/03/21	PROJECT ENGINEER: THIEN-LONG TRAN
PRINT DGE NAME: Andrea Demich	RCE#: [blank]	PROJECT ENGINEER: THIEN-LONG TRAN
DESCRIPTION: Addendum A	BY: CH	APPROVED: <i>Janine Smith</i>
		DATE: 1/15/21
		FILM: 260-1709
		CCS27 COORDINATE: 1900-6269
		CCS83 COORDINATE: 40381-20138D
CONTRACTOR: [blank]	DATE STARTED: [blank]	
INSPECTOR: [blank]	DATE COMPLETED: [blank]	

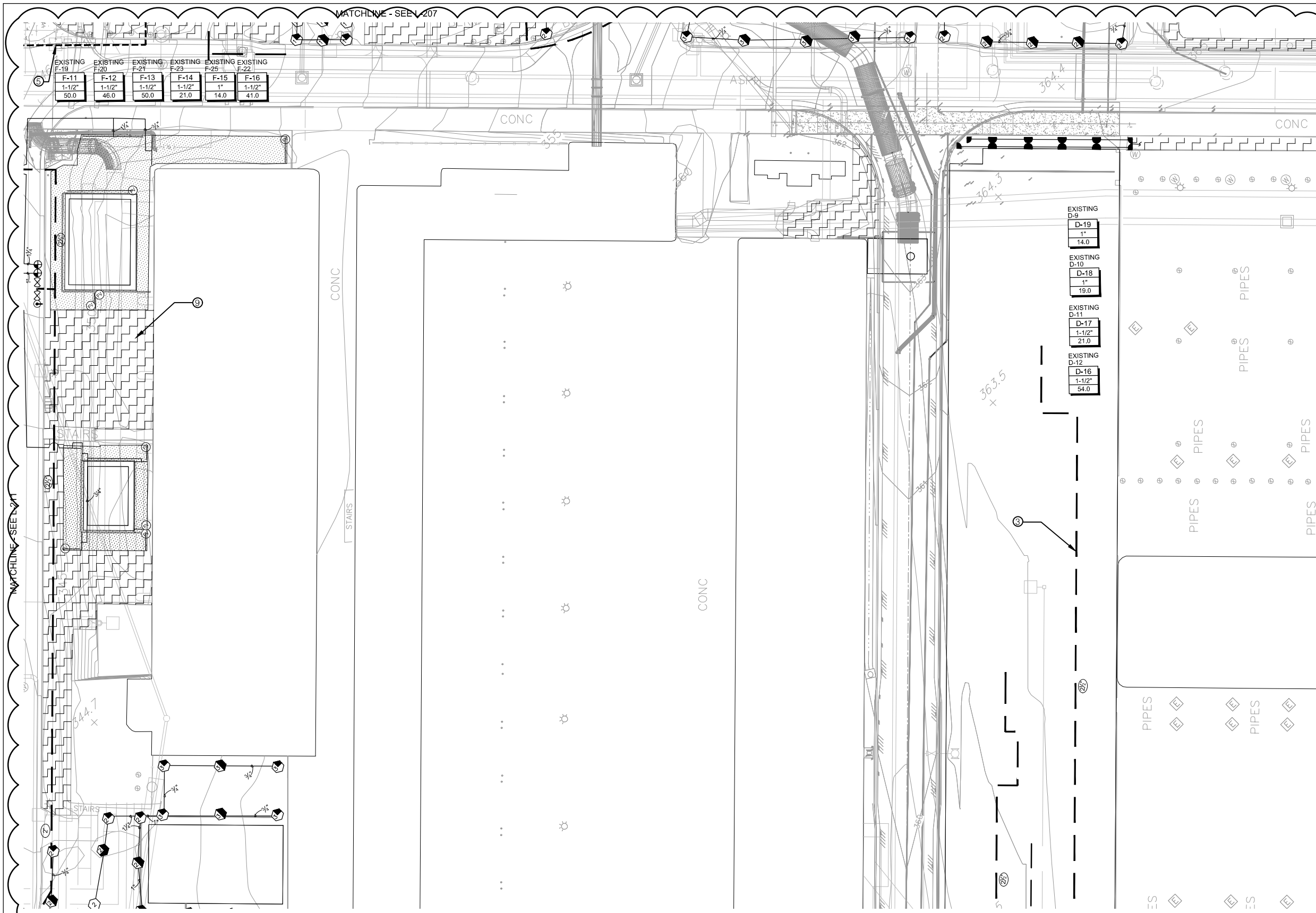
WARNING
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CONSULTANT

STUDIO WEST
LANDSCAPE ARCHITECTURE & PLANNING
3425 Ruffin Rd., Suite 108
San Diego, CA 92123
Ph 858.598.5085

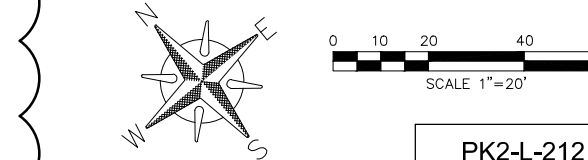
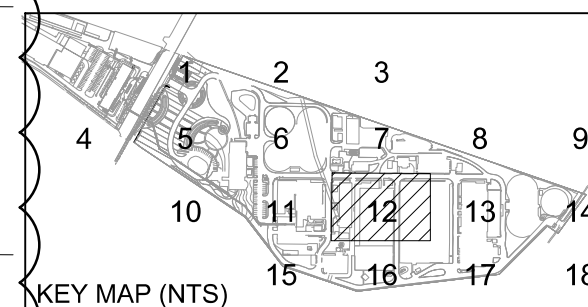


DIGITALLY SIGNED: 01/06/2021



- KEY NOTES:**
- 1 PROPERTY LINE
 - 2 EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
 - 3 EXISTING MAINLINE, TYP.
 - 4 CAP AND ABANDON EXISTING MAINLINE, TYP.
 - 5 ADD NEW MAINLINE, TYP.
 - 6 MAINLINE SLEEVE WITH NEW 2-WIRE SLEEVE, TYP.
 - 7 LATERAL LINE SLEEVE, TYP.
 - 8 EXISTING CONTROLLER LOCATION, REPLACE CONTROLLER PER IRRIGATION LEGEND
 - 9 EXISTING LANDSCAPE AREA, PROTECT IN PLACE PER PROJECT SPECIFICATIONS, TYP.
 - 10 RELOCATE EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
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 - 13 TIE NEW HEADS TO EXISTING IRRIGATION IN THIS AREA. ADJUST HEAD TYPE AS NEEDED TO BE COMPATIBLE WITH EXISTING EQUIPMENT.
 - 14 RECYCLED MAINLINE CROSSING OVER POTABLE WATER LINE SLEEVE LOCATION PER DETAIL.

- EXISTING IRRIGATION SYSTEM NOTES:**
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 - B. VERIFY THE PROPER OPERATION OF ALL EXISTING ZONES. REPAIR ANY IRRIGATION EQUIPMENT FOUND TO BE NOT OPERATING PROPERLY.
 - C. IN MANY AREAS EXISTING LANDSCAPE ZONES WILL BE REDUCED. REFER TO AS-BUILT PLANS AND CUT AND RECONNECT ZONES AS NEEDED TO MAINTAIN PROPER OPERATION.
 - D. CONNECT ALL EXISTING VALVE ZONES TO THE NEW CONTROL SYSTEM.



PK2-L-212
NCPWF EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

**LANDSCAPE IRRIGATION PLAN
AREA 12**

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 139 OF 1169 SHEETS

APPROVED BY: <i>Janie Smith</i> FOR CITY ENGINEER	DATE: 12/03/2020	PROJECT MANAGER: MONIKA SMOCZYNSKI
PRINT DGE NAME: Andrea Demich	RCE#: CT0321	PROJECT ENGINEER: THIEN-LONG TRAN
DESCRIPTION: Addendum A	BY: CH	DATE: 1/15/21
APPROVED: <i>Janie Smith</i>	DATE: 1/15/21	FILM: 260-1709
		CCS27 COORDINATE: 1900-6269
		CCS83 COORDINATE: 40381-20139-D
CONTRACTOR: _____	DATE STARTED: _____	DATE COMPLETED: _____
INSPECTOR: _____		

MATCHLINE - SEE L-216

MATCHLINE - SEE L-207

CONC

STAIRS

AS PIPES

PIPES

EXISTING D-9: 1" 14.0

EXISTING D-10: 1" 19.0

EXISTING D-11: 1-1/2" 21.0

EXISTING D-12: 1-1/2" 54.0

364.4 X

364.3 X

363.5 X

344.7 X

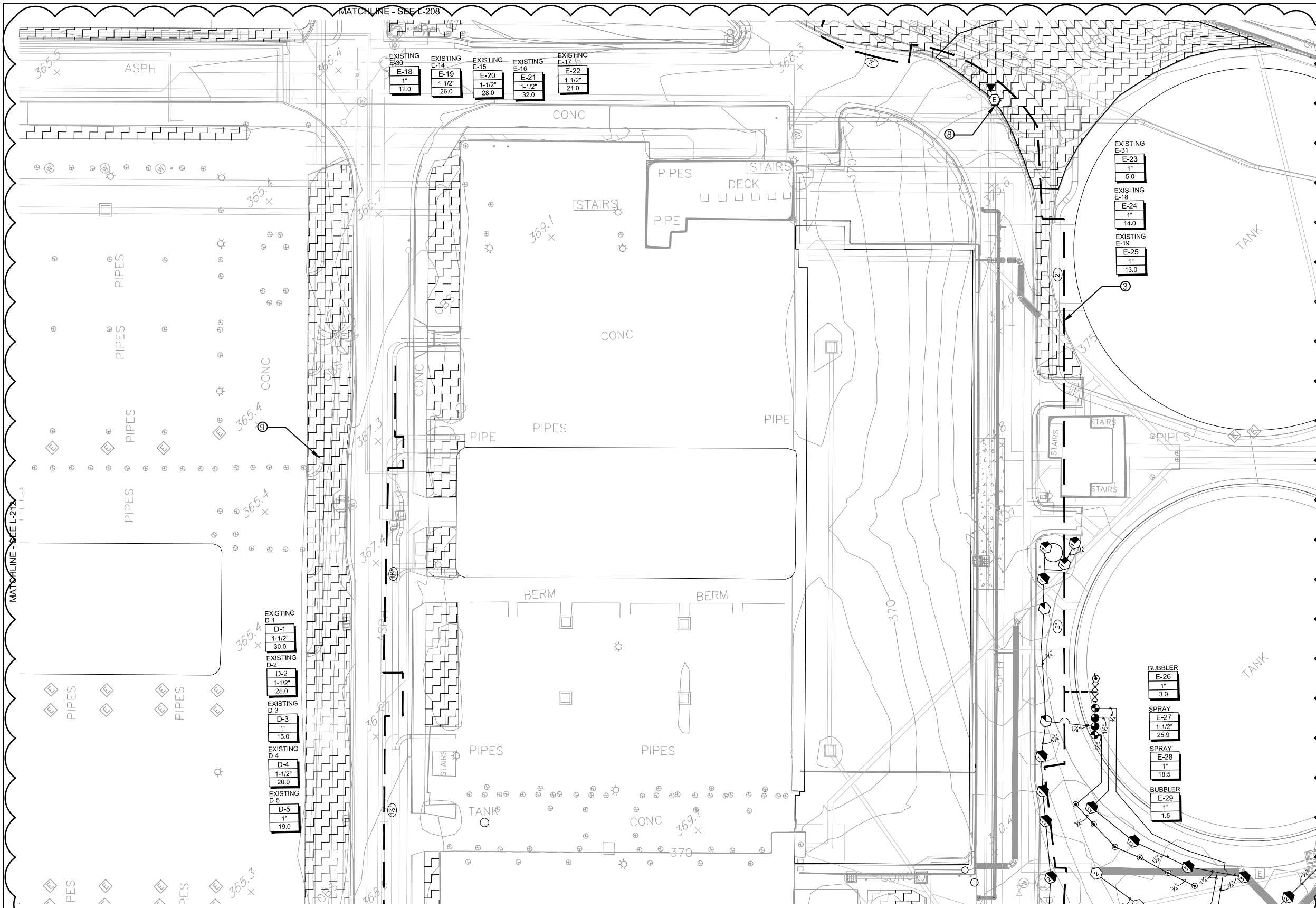
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WARNING
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CONSULTANT

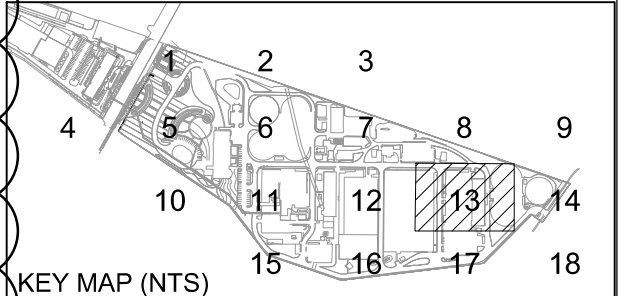
STUDIO WEST
LANDSCAPE ARCHITECTURE & PLANNING
3425 Ruffin Rd., Suite 108
San Diego, CA 92123
Ph 858.598.5085

DIGITALLY SIGNED: 01/06/2021



- KEY NOTES:**
- PROPERTY LINE
 - EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
 - EXISTING MAINLINE, TYP.
 - CAP AND ABANDON EXISTING MAINLINE, TYP.
 - ADD NEW MAINLINE, TYP.
 - MAINLINE SLEEVE WITH NEW 2-WIRE SLEEVE, TYP.
 - LATERAL LINE SLEEVE, TYP.
 - EXISTING CONTROLLER LOCATION, REPLACE CONTROLLER PER IRRIGATION LEGEND
 - EXISTING LANDSCAPE AREA, PROTECT IN PLACE PER PROJECT SPECIFICATIONS, TYP.
 - RELOCATE EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
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 - TIE NEW HEADS TO EXISTING IRRIGATION IN THIS AREA, ADJUST HEAD TYPE AS NEEDED TO BE COMPATIBLE WITH EXISTING EQUIPMENT.
 - RECYCLED MAINLINE CROSSING OVER POTABLE WATER LINE SLEEVE LOCATION PER DETAIL.

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 - CONNECT ALL EXISTING VALVE ZONES TO THE NEW CONTROL SYSTEM.



PK2-L-213
 NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE IRRIGATION PLAN AREA 13

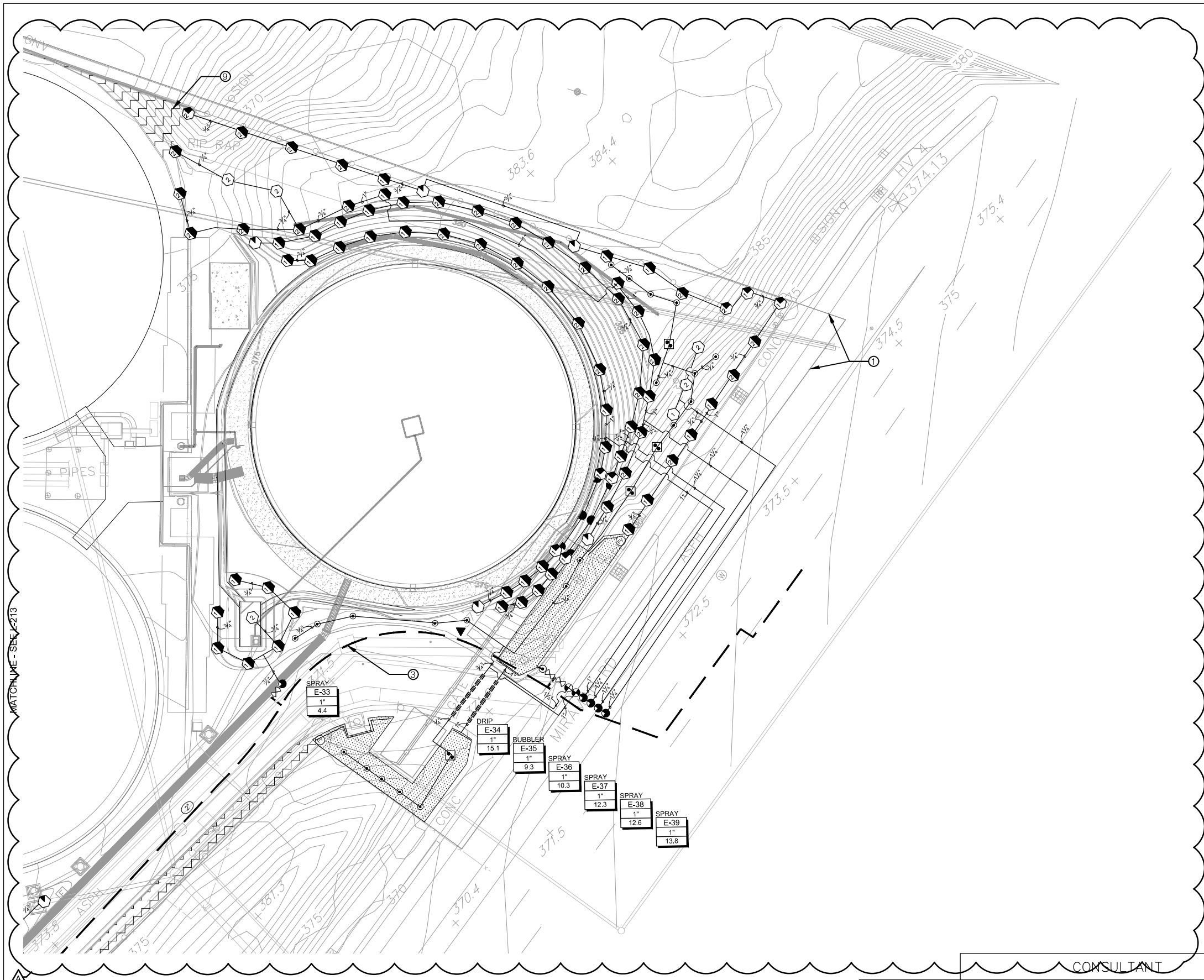
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 140 OF 1169 SHEETS		B-16149,S-17012 WBS B-15142
APPROVED: <i>Janine Smith</i> FOR CITY ENGINEER PRINT: DCE NAME: Andrea Demich DATE: 12/03/2020 RCE#: CT0321	PROJECT MANAGER: MONIKA SMOczynski PROJECT ENGINEER: THIEN-LONG TRAN	
DESCRIPTION: Addendum A	BY: CH	APPROVED: <i>Janine Smith</i> DATE: 1/15/21 FILM: 260-1709 CCS27 COORDINATE: 1900-6269 CCS83 COORDINATE: 40381-20140-D
CONTRACTOR INSPECTOR: _____	DATE STARTED: _____	DATE COMPLETED: _____

CONSULTANT

STUDIO WEST
 LANDSCAPE ARCHITECTURE & PLANNING
 3425 Ruffin Rd., Suite 108
 San Diego, CA 92123
 Ph 858.598.5085

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DIGITALLY SIGNED: 01/06/2021

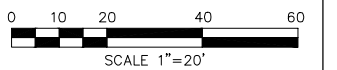
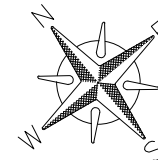
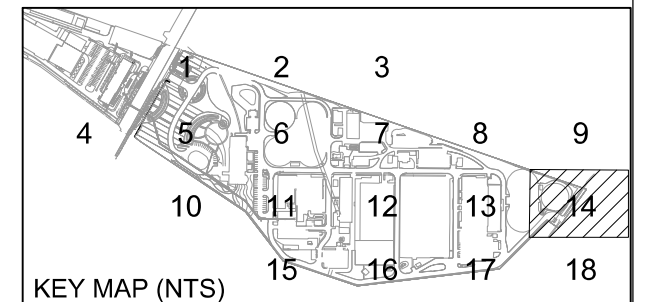


KEY NOTES:

- ① PROPERTY LINE
- ② EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
- ③ EXISTING MAINLINE, TYP.
- ④ CAP AND ABANDON EXISTING MAINLINE, TYP.
- ⑤ ADD NEW MAINLINE, TYP.
- ⑥ MAINLINE SLEEVE WITH NEW 2-WIRE SLEEVE, TYP.
- ⑦ LATERAL LINE SLEEVE, TYP.
- ⑧ EXISTING CONTROLLER LOCATION, REPLACE CONTROLLER PER IRRIGATION LEGEND
- ⑨ EXISTING LANDSCAPE AREA, PROTECT IN PLACE PER PROJECT SPECIFICATIONS, TYP.
- ⑩ RELOCATE EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
- ⑪ ADD A PRESSURE REGULATOR, MASTER VALVE AND FLOW SENSING AT ALL POINT OF CONNECTIONS, PER SPECS AND DETAILS.
- ⑫ INSTALL RECYCLED WATER SIGN, TYP.
- ⑬ TIE NEW HEADS TO EXISTING IRRIGATION IN THIS AREA. ADJUST HEAD TYPE AS NEEDED TO BE COMPATIBLE WITH EXISTING EQUIPMENT.
- ⑭ RECYCLED MAINLINE CROSSING OVER POTABLE WATER LINE SLEEVE LOCATION PER DETAIL.

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 - C. IN MANY AREAS EXISTING LANDSCAPE ZONES WILL BE REDUCED. REFER TO AS-BUILT PLANS AND CUT AND RECONNECT ZONES AS NEEDED TO MAINTAIN PROPER OPERATION.
 - D. CONNECT ALL EXISTING VALVE ZONES TO THE NEW CONTROL SYSTEM.



PK2-L-214

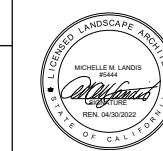
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION

**LANDSCAPE IRRIGATION PLAN
AREA 14**

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 141 OF 1169 SHEETS

B-16149,S-17012
WBS B-15142

APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER	DATE: 12/03/2020	ISSUED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	RCE#: C70321	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Andrea Demich</i>
		DATE
		1/15/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE



DIGITALLY SIGNED: 01/06/2021

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

40381-20141-D

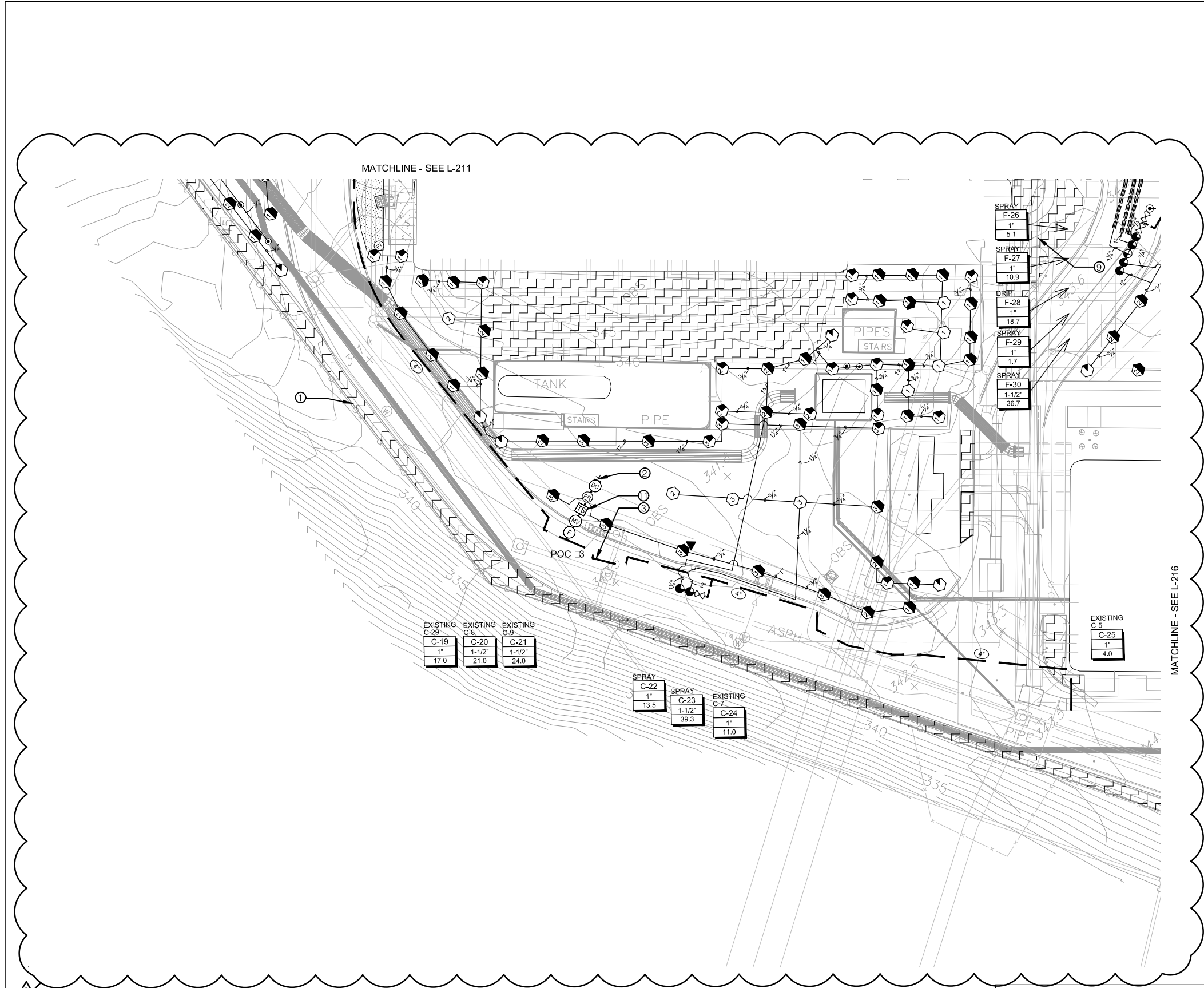
WARNING
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STUDIO WEST
LANDSCAPE ARCHITECTURE & PLANNING
3625 Ruffin Rd., Suite 108
San Diego, CA 92123
Ph 858.598.5085

CONSULTANT

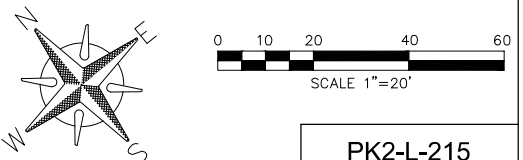
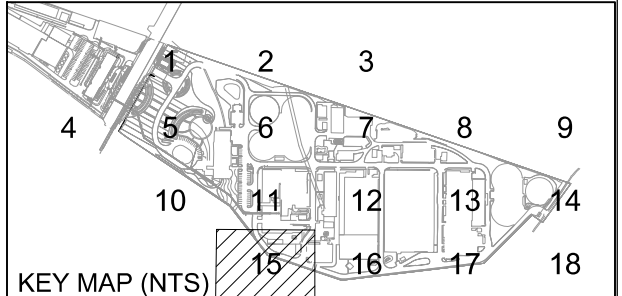
MATCHLINE - SEE E-213

▲



- KEY NOTES:**
- ① PROPERTY LINE
 - ② EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
 - ③ EXISTING MAINLINE, TYP.
 - ④ CAP AND ABANDON EXISTING MAINLINE, TYP.
 - ⑤ ADD NEW MAINLINE, TYP.
 - ⑥ MAINLINE SLEEVE WITH NEW 2-WIRE SLEEVE, TYP.
 - ⑦ LATERAL LINE SLEEVE, TYP.
 - ⑧ EXISTING CONTROLLER LOCATION, REPLACE CONTROLLER PER IRRIGATION LEGEND
 - ⑨ EXISTING LANDSCAPE AREA, PROTECT IN PLACE PER PROJECT SPECIFICATIONS, TYP.
 - ⑩ RELOCATE EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
 - ⑪ ADD A PRESSURE REGULATOR, MASTER VALVE AND FLOW SENSING AT ALL POINT OF CONNECTIONS, PER SPECS AND DETAILS.
 - ⑫ INSTALL RECYCLED WATER SIGN, TYP.
 - ⑬ TIE NEW HEADS TO EXISTING IRRIGATION IN THIS AREA. ADJUST HEAD TYPE AS NEEDED TO BE COMPATIBLE WITH EXISTING EQUIPMENT.
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 - D. CONNECT ALL EXISTING VALVE ZONES TO THE NEW CONTROL SYSTEM.



PK2-L-215

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE IRRIGATION PLAN AREA 15

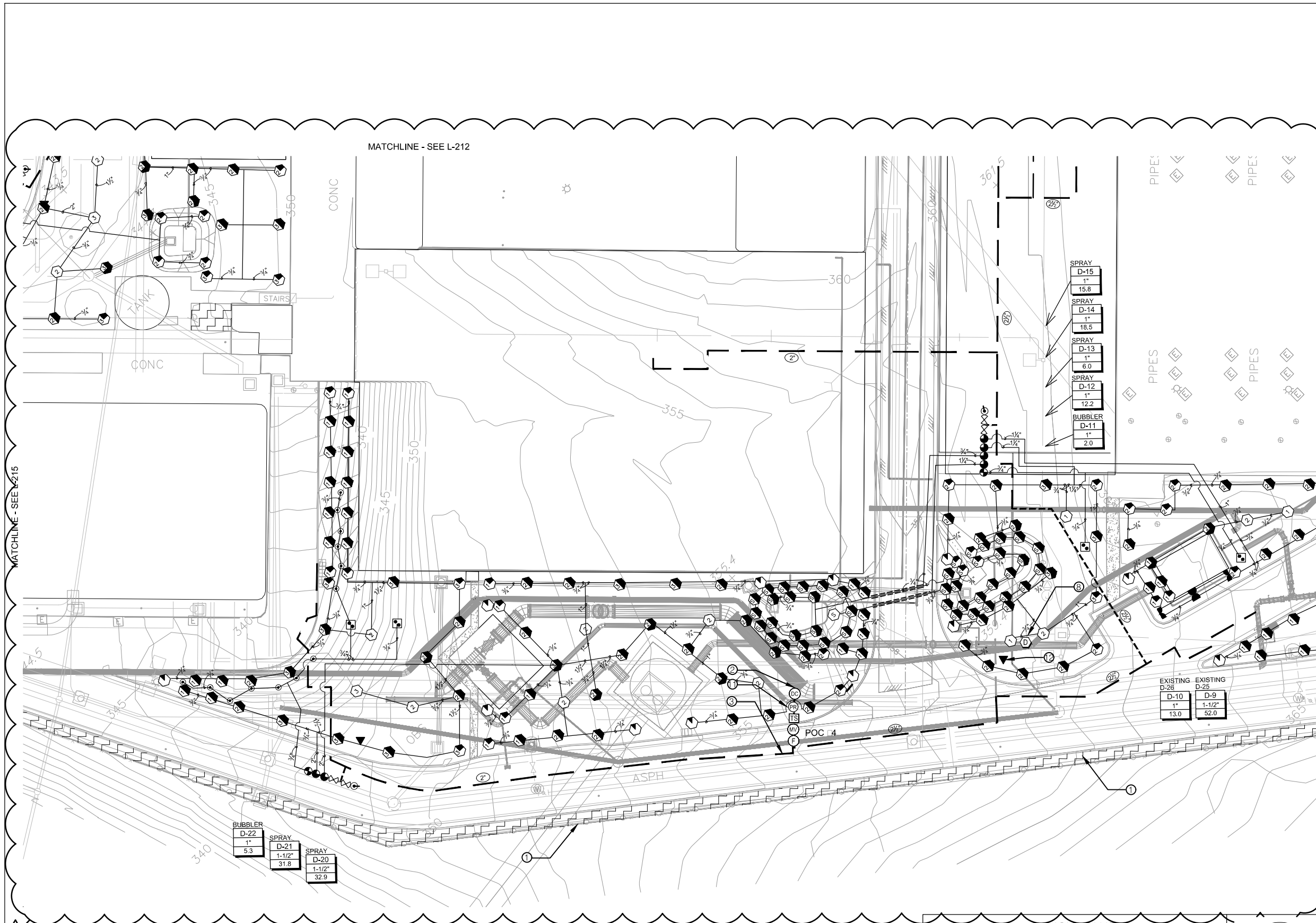
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 142 OF 1169 SHEETS		B-16149,S-17012 WBS B-15142
APPROVED: <i>Janis Smith</i> FOR CITY ENGINEER	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCGE NAME: Andrea Demich	RCE#	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
DATE	FILM	
▲ Addendum A	CH	<i>Janis Smith</i>
		1/15/21
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR		40381-20142-D
INSPECTOR		DATE STARTED DATE COMPLETED

CONSULTANT

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LANDSCAPE ARCHITECTURE
& PLANNING
3425 Ruffin Rd., Suite 108
San Diego, CA 92123
Ph 858.598.5085

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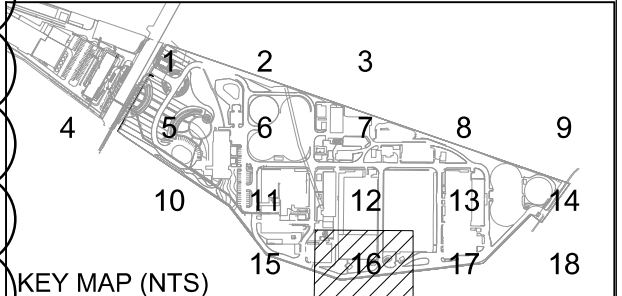
- KEY NOTES:**
- ① PROPERTY LINE
 - ② EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
 - ③ EXISTING MAINLINE, TYP.
 - ④ CAP AND ABANDON EXISTING MAINLINE, TYP.
 - ⑤ ADD NEW MAINLINE, TYP.
 - ⑥ MAINLINE SLEEVE WITH NEW 2-WIRE SLEEVE, TYP.
 - ⑦ LATERAL LINE SLEEVE, TYP.
 - ⑧ EXISTING CONTROLLER LOCATION, REPLACE CONTROLLER PER IRRIGATION LEGEND
 - ⑨ EXISTING LANDSCAPE AREA, PROTECT IN PLACE PER PROJECT SPECIFICATIONS, TYP.
 - ⑩ RELOCATE EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
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 - ⑬ TIE NEW HEADS TO EXISTING IRRIGATION IN THIS AREA. ADJUST HEAD TYPE AS NEEDED TO BE COMPATIBLE WITH EXISTING EQUIPMENT.
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 - D. CONNECT ALL EXISTING VALVE ZONES TO THE NEW CONTROL SYSTEM.

MATCHLINE - SEE L-215

MATCHLINE - SEE L-212

MATCHLINE - SEE L-217



PK2-L-216

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

**LANDSCAPE IRRIGATION PLAN
AREA 16**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 143 OF 1169 SHEETS				B-16149,S-17012 WBS B-15142
APPROVED: FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER		
PRINT DGE NAME Andrea Demich	BCE# C70321	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER		
DESCRIPTION Addendum A	BY CH	APPROVED Andrea Demich	DATE 1/15/21	
FILM		260-1709 CCS27 COORDINATE		
CONTRACTOR INSPECTOR		1900-6269 CCS83 COORDINATE		
DATE STARTED		DATE COMPLETED		
40381-20143-D				

CONSULTANT



STUDIO WEST
LANDSCAPE ARCHITECTURE
& PLANNING
3625 Ruffin Rd., Suite 108
San Diego, CA 92123
Ph 858.598.5085

WARNING



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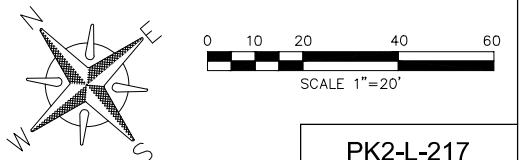
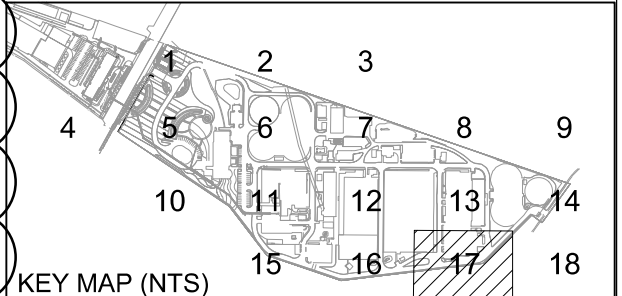
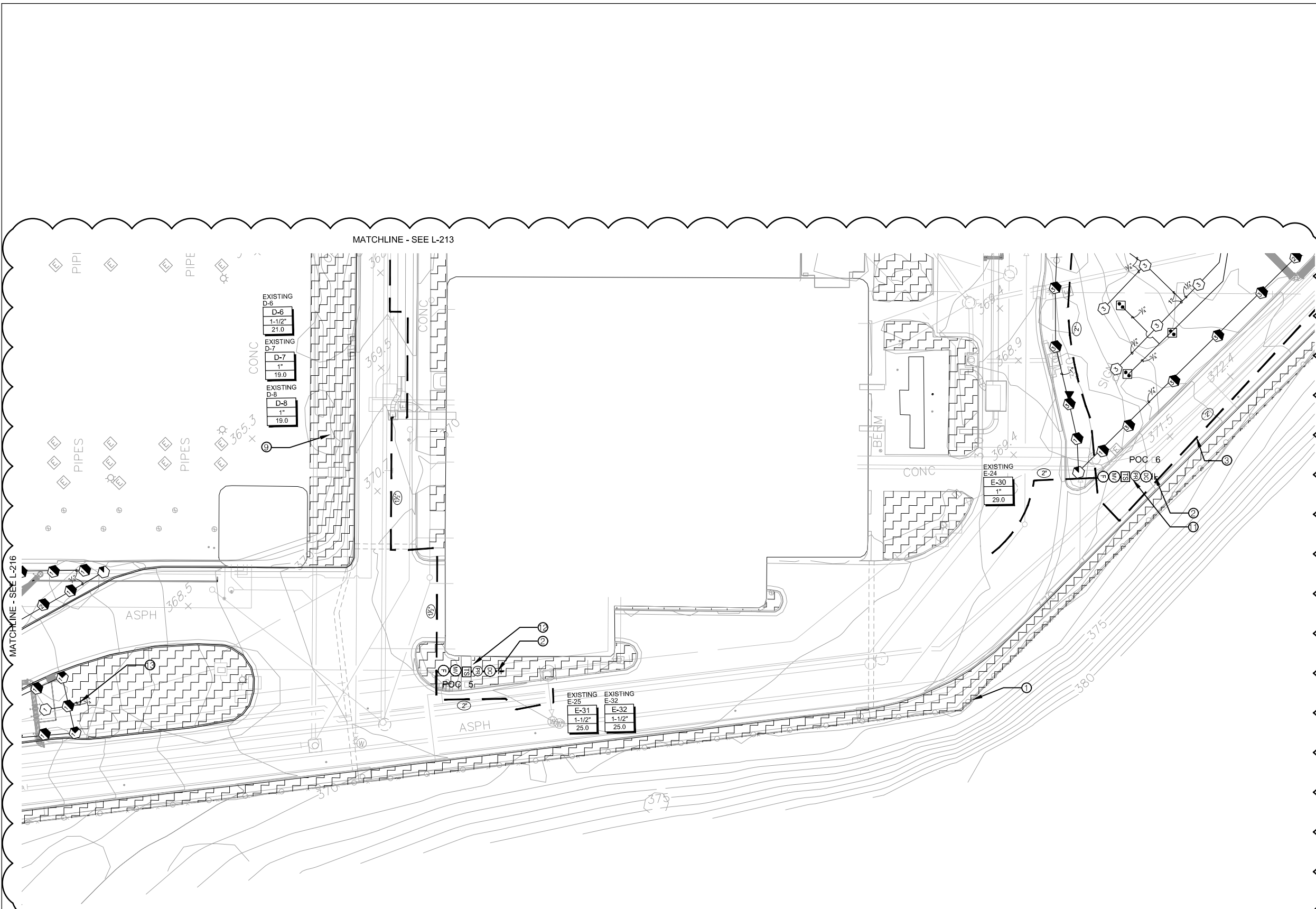
DIGITALLY SIGNED: 01/06/2021

KEY NOTES:

- ① PROPERTY LINE
- ② EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
- ③ EXISTING MAINLINE, TYP.
- ④ CAP AND ABANDON EXISTING MAINLINE, TYP.
- ⑤ ADD NEW MAINLINE, TYP.
- ⑥ MAINLINE SLEEVE WITH NEW 2-WIRE SLEEVE, TYP.
- ⑦ LATERAL LINE SLEEVE, TYP.
- ⑧ EXISTING CONTROLLER LOCATION, REPLACE CONTROLLER PER IRRIGATION LEGEND
- ⑨ EXISTING LANDSCAPE AREA, PROTECT IN PLACE PER PROJECT SPECIFICATIONS, TYP.
- ⑩ RELOCATE EXISTING POINT OF CONNECTION, ADD STATION AND POC DECODER AT NEAREST VALVE
- ⑪ ADD A PRESSURE REGULATOR, MASTER VALVE AND FLOW SENSING AT ALL POINT OF CONNECTIONS, PER SPECS AND DETAILS.
- ⑫ INSTALL RECYCLED WATER SIGN, TYP.
- ⑬ TIE NEW HEADS TO EXISTING IRRIGATION IN THIS AREA. ADJUST HEAD TYPE AS NEEDED TO BE COMPATIBLE WITH EXISTING EQUIPMENT.
- ⑭ RECYCLED MAINLINE CROSSING OVER POTABLE WATER LINE SLEEVE LOCATION PER DETAIL.

EXISTING IRRIGATION SYSTEM NOTES:

1. THIS PROJECT INCLUDES AREAS OF EXISTING IRRIGATION AND PLANTING. IN AREAS THAT ARE NOT DISTURBED BY NEW CONSTRUCTION:
- A. ENSURE EXISTING PLANTING IS MAINTAINED AND WATERED DURING CONSTRUCTION.
 - B. VERIFY THE PROPER OPERATION OF ALL EXISTING ZONES, REPAIR ANY IRRIGATION EQUIPMENT FOUND TO BE NOT OPERATING PROPERLY.
 - C. IN MANY AREAS EXISTING LANDSCAPE ZONES WILL BE REDUCED. REFER TO AS-BUILT PLANS AND CUT AND RECONNECT ZONES AS NEEDED TO MAINTAIN PROPER OPERATION.
 - D. CONNECT ALL EXISTING VALVE ZONES TO THE NEW CONTROL SYSTEM.



PK2-L-217

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION

**LANDSCAPE IRRIGATION PLAN
AREA 17**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 144 OF 1169 SHEETS		B-16149,S-17012 WBS B-15142
APPROVED: <i>Janine Smith</i> FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DGE NAME Andrea Demich	BCE#	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Janine Smith</i>
		DATE
		1/15/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-20144-D
INSPECTOR	DATE COMPLETED	

CONSULTANT

WARNING

0 1

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STUDIO WEST
LANDSCAPE ARCHITECTURE & PLANNING
3425 Ruffin Rd., Suite 108
San Diego, CA 92123
Ph 858.598.5085

DIGITALLY SIGNED: 01/06/2021

PLANT LEGEND

SYMBOL	SCIENTIFIC NAME - COMMON NAME	WUCOLS IV ZONE 3	MATURE SIZE (HXW)	SIZE	QTY.
EXISTING TREES AND LANDSCAPE TO REMAIN- PROTECT IN PLACE					
	POPULOUS NIGRA ITALIA' - LOMBARDY POPULAR PLATANUS RACEMOSA - CALIFORNIA SYCAMORE ULMUS PARVIFOLIA - CHINESE EVERGREEN ELM				
	EXISTING VEGETATION TO REMAIN				
TREES					
	ARB UNE ARBUTUS UNEDO 'MARINA' - MARINA STRAWBERRY TREE MULTI-TRUNK, LOW BRANCHING	L	40' X 25'	36" BOX	20
	BRA POP BRACHYCHITON POPULNEUS-BOTTLE TREE STANDARD	L	25' X 20'	36" BOX	11
	PIS CHI PISTACHIA CHINENSIS - CHINESE PISTACHE STANDARD	M	25' X 25'	24" BOX	7
	CHI TAS CHITALPA TASHKENTENSIS 'PINK DAWN' - PINK DAWN CHITALPA STANDARD	L	25' X 25'	36" BOX	5
	GEI PAR GEIJERA PARVIFLORA - AUSTRALIAN WILLOW STANDARD	L	20' X 15'	24" BOX	32
SHRUBS					
	EUP COT EUPHORBIA COTINIFOLIA - CARIBBEAN COPPER PLANT	M	10' X 8'	15 GAL	90
	AGA VIL AGAVE VILMORINIANA - OCTOPUS AGAVE	L	4' X 4'	5 GAL	99
	AGA ATT AGAVE ATTENUATA - FOXTAIL AGAVE	VL	4' X 4'	5 GAL	220
	AGA NOV AGAVE NOVA-BLUE FOXTAIL AGAVE	L	4' X 4'	5 GAL	14
	AGA DES AGAVE DESMETTIANA-SMOOTH AGAVE	L	3' X 3'	15 GAL	11
	BOU TOR BOUGAINVILLEA 'TORCH GLOW' - BOUGAINVILLEA	L	6' X 6'	5 GAL	37
	CAL LIT CALLISTEMON 'LITTLE JOHN'-BOTTLEBRUSH	L	3' X 4'	5 GAL	200
	ECH GRU ECHINOCACTUS GRUSONII - BARREL CACTUS	VL	2' X 2'	5 GAL	135
	HES PAR HESPERALOE PARVIFOLIA-RED YUCCA	VL	3' X 4'	5 GAL	73
	HET ARB HETEROMELES ARBUTIFOLIA-TOYON	VL	6' X 6'	5 GAL	186
	TEC ORA TECOMA 'ORANGE JUBILEE'-ORANGE BELLS	L	12' X 8'	15 GAL	179
	PAC MAR PACHYCREUS MARGINATUS -MEXICAN FENCE POST CACTUS	L	5' X 4'	15 GAL	6
	EUP TIR EUPHORBIA TIRUCALLI - STICKS ON FIRE	L	5' X 4'	5 GAL	18
	BAC TWI BACCHARIS P. 'TWIN PEAKS' - HYBRID COYOTE BRUSH (6"-0" O.C.)	L	4' X 6'	1 GAL	25,015 SF

BARK MULCH

SYMBOL	DESCRIPTION	NOTES
	MULCH: FOREST FINES (AGRISERVICE OR EQUAL), ADD TO ALL GROUNDCOVER, SHRUBS, AND TREE AREAS UNLESS ROCK MULCH IS CALLED OUT PER PLAN	3" DEPTH

SYMBOL	SCIENTIFIC NAME - COMMON NAME	WUCOLS IV ZONE 3	MATURE SIZE (HXW)	SIZE	QTY.
GROUND COVER					
	SED NUS SEDUM NUSSBAUMERIANUM-COPPERTONE STONECROP (12" O.C.) W/3" LAYER OF BARK MULCH	L	1' X 1'	4" POTS	3,590 SF
	LIP NOD LIPPIA NODIFLORA - KURAPIA (24" O.C.)	L	6" X 2'	SOD	12,544 SF
	MYO PIN MYOPORUM 'PINK' - PINK MYOPORUM (24" O.C.) W/3" LAYER OF BARK MULCH	L	1' X 2'	1 GAL	39,656 SF
	SEN MAN SENECEO MANDRALISCAE - BLUE CHALKSTICKS (18" O.C.) W/3" LAYER OF BARK MULCH	L	1' X 2'	4" POTS	101,134 SF
	ECH AFT ECHEVERRIA 'AFTERGLOW' (12" O.C.) W/3" LAYER OF BARK MULCH	L	1' X 1'	6" POTS	3,954 SF

NOTES:
 I NOT INCLUDED IN WUCOLS IV, BASED ON PREVIOUS WUCOLS PLANT LISTS AND DESIGNER EXPERIENCE.
 II NURSERY WATER USE STUDIES DIFFER FROM WUCOLS IV RATING

SLOPES: HYDROSEED & CONTAINER PLANTS

	HYDROSEED - SEE SLOPE HYDROSEED MIX
CONTAINER PLANTS (10"-0" O.C.)	
30	RHUS INTEGRIFOLIA (LEMONADE BERRY) 1 GAL
30	BACCHARIS 'TWIN PEAKS' (DWARF COYOTE BRUSH) 1 GAL
30	ERIOGONUM FASCICULATUM (CALIFORNIA BUCKWHEAT) 1 GAL
27.720 SF	

SLOPE HYDROSEED MIX				
BOTANICAL NAME	COMMON NAME	MIN % PURITY/ MIN % GERMINATION	LBS/ACRE	
LASTHENIA CHRYSOSTOMA	GOLDFIELD	50/60	1.0	
LOTUS SCOPARIUS	DEERWEED	90/60	5.0	
LUPINUS BICOLOR	LUPINE	98/85	5.0	
PHACELIA RAMOSISSIMA	PHACELIA	95/85	1.0	
ARTEMISIA CALIFORNICA	CALIFORNIA SAGEBRUSH	98/75	4.0	
ENCELIA CALIFORNICA	COAST SUNFLOWER	40/60	5.0	
			TOTAL LBS/ACRE: 21.0	

HYDROSEED NOTES

SEE SPECIFICATIONS

BIO-BASIN HYDROSEED

BIO-RETENTION BASIN		
NATIVE GRASS SEED BLEND	LBS/ACRE	
CAREX PRAEGRACILIS	2.00 LBS/ACRE	
CAREX SPISSA	1.00 LBS/ACRE	
DISTICHILIS SPICATA	5.00 LBS/ACRE	
ELEOCHARIS MACROSTACHYA	1.50 LBS/ACRE	
FESTUCA RUBRA	1.00 LBS/ACRE	
JUNCUS MEXICANUS	3.00 LBS/ACRE	
JUNCUS PATENS	1.00 LBS/ACRE	
LEYMUS CONDENSATUS	2.50 LBS/ACRE	
MUHLENBERGIA RIGENS	0.50 LBS/ACRE	
MIMULUS CARDINALIS	0.10 LBS/ACRE	

HYDROSEED NOTES

SEE SPECIFICATIONS

BIO-FILTRATION MODULAR WETLAND UNIT

SYMBOL	SCIENTIFIC NAME - COMMON NAME	WUCOLS IV ZONE 3	MATURE SIZE (HXW)	SIZE	QTY.
	DIE IRI DIETES IRIDOIDES - MOREA LILY	L	5' X 4'	5 GAL	4/UNIT

MATERIALS LEGEND

SYMBOL	DESCRIPTION	NOTES
--------	-------------	-------

HARDSCAPE		
	CONCRETE MOW CURB PER SDL-103	
	STABILIZED DECOMPOSED GRANITE	'MERLOT' STABILIZED D.G PER DETAIL A/L-503
	NON-STABILIZED DECOMPOSED GRANITE	'MERLOT' STABILIZED D.G PER DETAIL A/L-503
	FLAGSTONE	FLAGSTONE ON CONCRETE BASE PER DETAIL D/L-503 'CABERNET CREEK', 2" THICKNESS

DECORATIVE ROCK MULCH

	APACHE BROWN CRUSHED 4"-8"
	RED CINDER
	PALM SPRINGS GOLD-CRUSHED
	SAN DIEGO RIVER ROCK 4"-8"

SURFACES PER CIVIL (SHOWN ONLY FOR CLARITY)

	RIP-RAP PER CIVIL
	CONCRETE PAVING PER CIVIL
	CONCRETE DRAIN SWALE PER CIVIL

PK2-L-501

NCPWF EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE PLANTING LEGEND

A

CONSULTANT

MARUM PARTNERSHIP

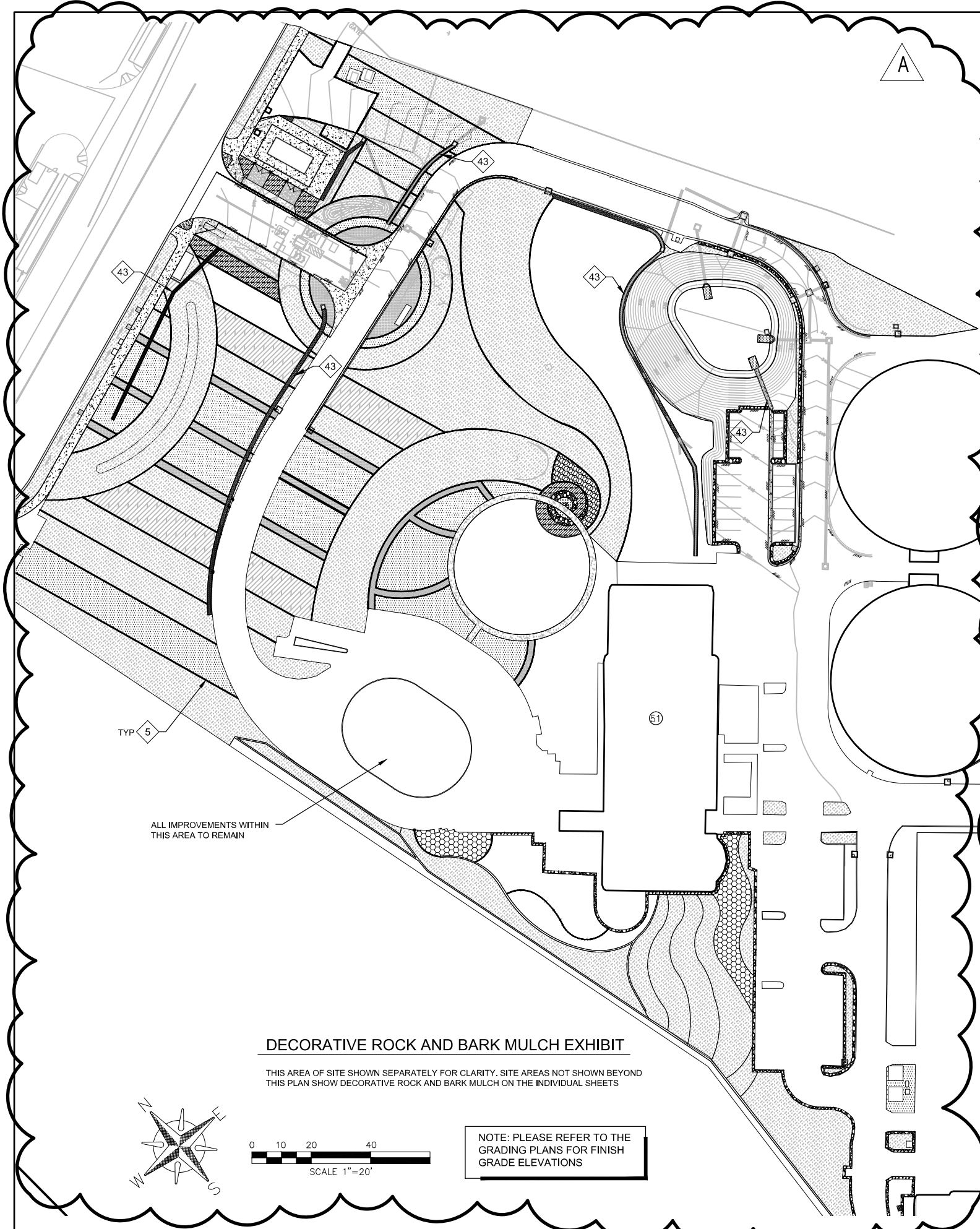
10680 TREENA STREET SUITE 100
SAN DIEGO, CA 92131
PHONE: 619-992-9533

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DIGITALLY SIGNED: 01/06/2021

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 145 OF 1169 SHEETS				B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER	DATE: 12/03/2020 C70321	ISSUED BY: MONIKA SMOCZYNSKI PROJECT MANAGER	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER	
PRINT DCE NAME: Andrea Demich	RCE#	DESCRIPTION	BY	APPROVED
ADDENDUM A	CH	<i>Andrea Demich</i>		1/15/21
DATE STARTED			DATE COMPLETED	
			40381-20145-D	



GENERAL PLANTING NOTES

1. THE PLANTING PLANS ARE DIAGRAMMATIC. MINOR ADJUSTMENTS IN PLANT LOCATIONS MAY BE MADE AT THE DISCRETION OF LANDSCAPE ARCHITECT OR CITY INSPECTOR. THE LANDSCAPE ARCHITECT SHALL APPROVE FINAL PLACEMENT OF ALL TREES AND SHRUBS PRIOR TO PLANTING.
2. THE CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH THE OTHER TRADES AND MAINTAIN DRAINAGE DURING CONSTRUCTION.
3. PLANT QUANTITIES SHOWN ON LEGENDS ARE FOR CONTRACTOR'S CONVENIENCE IN ESTIMATING ONLY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PLANT MATERIALS TO COVER ALL AREAS SHOWN ON PLANS..
4. THE CONTRACTOR SHALL NOT ALLOW CONCRETE DUST OR OTHER POTENTIALLY TOXIC CONSTRUCTION MATERIAL TO BE SWEEPED OR DRAINED INTO PLANTING AREAS OR DRAINAGE INLETS.
5. ALL LANDSCAPE AND IRRIGATION PLANS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CITY OF SAN DIEGO'S REGIONAL STANDARDS.

MATERIALS LEGEND

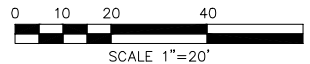
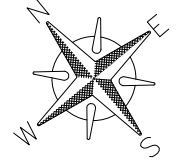
SYMBOL	DESCRIPTION
	BARK MULCH: 3" DEPTH FOREST FINES (AGRISERVICE OR EQUAL), ADD TO ALL GROUND COVER, SHRUBS, AND TREE AREAS UNLESS ROCK MULCH IS CALLED OUT PER PLAN
HARDSCAPE	
	CONCRETE MOW CURB PER SDL-103
	STABILIZED DECOMPOSED GRANITE 'MERLOT' STABILIZED D.G PER DETAIL A/L-503
	NON-STABILIZED DECOMPOSED GRANITE 'MERLOT'. MINIMUM 3" DEPTH
	FLAGSTONE FLAGSTONE ON CONCRETE BASE PER DETAIL D/L-503 'CABERNET CREEK', 2" THICKNESS
DECORATIVE ROCK MULCH	
	APACHE BROWN CRUSHED 4"-8"
	RED CINDER
	CLASS 2 BASE
	PALM SPRINGS GOLD-CRUSHED
	SAN DIEGO RIVER ROCK 4"-8"
SURFACES PER CIVIL (SHOWN ONLY FOR CLARITY)	
	RIP-RAP PER CIVIL
	CONCRETE PER CIVIL

KEYNOTES - MASTER LIST

1	EXISTING OR NEW CONCRETE CURB PER CIVIL	25	GAS LINE PER CIVIL
2	TREE TO BE PROTECTED IN PLACE. REFER TO TREE PROTECTION SPECIFICATIONS.	26	HANDHOLD OR MANHOLE PER ELECTRICAL
3	SECURITY FENCE PER CIVIL	27	FIRE LINE PER CIVIL
4	SIGN WALL PER CIVIL	28	HIGH PRESSURE WATER PER CIVIL
5	CONCRETE MOW CURB PER SDL-103	29	EXISTING SCREEN WALL
6	STEEL HEADER	30	CURB RAMP PER CIVIL
7	ASPHALT OR CONCRETE ROAD PER CIVIL	31	UTILITY VAULT PER CIVIL
8	NEW OR EXISTING CONCRETE PAVING (PEDESTRIAN) PER CIVIL	32	NEW OR EXISTING SITE LIGHTING PER CIVIL
9	STABILIZED DG WALKWAY	33	WATER BACKFLOW PER CIVIL
10	GAS METER	34	STORMWATER PUMP STATION
11	GUARDSHACK PER CIVIL	35	NEW SCREEN WALL PER ARCH
12	SECURITY GATE PER CIVIL	36	24" WIDE ROCK BAND
13	FIRE HYDRANT PER CIVIL	37	ROOT BARRIER
14	FIRE BACKFLOW PER CIVIL	38	FLAGSTONE PAVING
15	STORM DRAIN PER CIVIL	39	YARD PIPING PER CIVIL
16	STORMWATER STRUCTURE PER CIVIL	40	WATER LINE PER CIVIL
17	BARK MULCH	41	GRAVEL PER CIVIL
18	EXISTING TO REMAIN OR NEW RIP-RAP PER CIVIL	42	CHEMICAL PER CIVIL
19	ROCK MULCH PER LEGEND	43	CONCRETE SWALE PER CIVIL
20	HYDROSEED PER LEGEND	44	BROW DITCH PER CIVIL
21	EARTHEN MOUND PER CIVIL	45	GRAVEL ACCESS DRIVE PER CIVIL
22	NEW OR EXISTING TO REMAIN, RETAINING WALL PER CIVIL	46	CATCH BASIN PER CIVIL
23	BIO-BASIN PER CIVIL	47	EXISTING LANDSCAPE TO BE PROTECTED IN PLACE
24	SEWER LINE PER CIVIL	48	EXISTING OR NEW ELECTRICAL LINE
		49	MODULAR WETLAND PER CIVIL

DECORATIVE ROCK AND BARK MULCH EXHIBIT

THIS AREA OF SITE SHOWN SEPARATELY FOR CLARITY. SITE AREAS NOT SHOWN BEYOND THIS PLAN SHOW DECORATIVE ROCK AND BARK MULCH ON THE INDIVIDUAL SHEETS



NOTE: PLEASE REFER TO THE GRADING PLANS FOR FINISH GRADE ELEVATIONS

WARNING
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CONSULTANT

MARUM PARTNERSHIP

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SAN DIEGO, CA 92131
PHONE: 619-992-9533



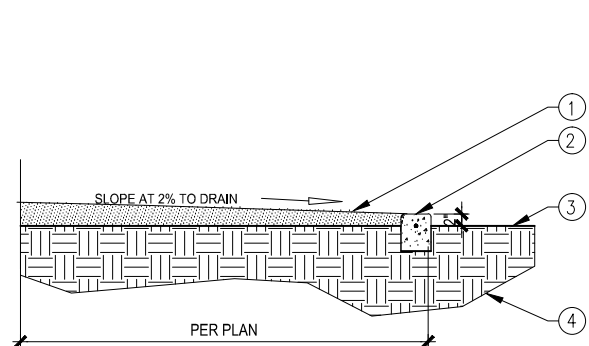
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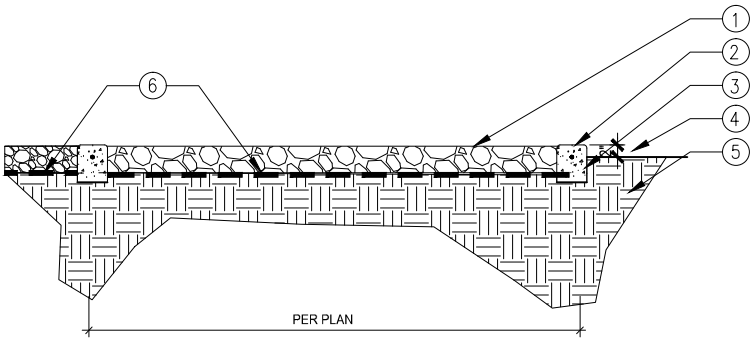
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

LANDSCAPE LEGEND AND NOTES

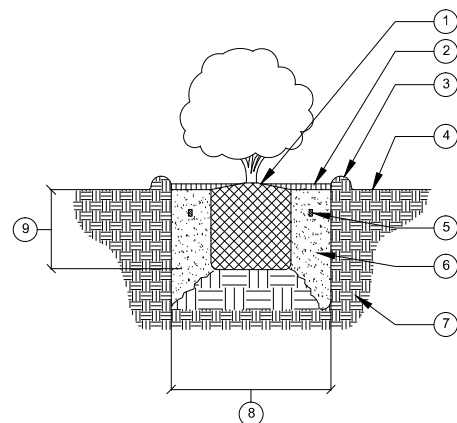
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 146 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C70321	PROJECT MANAGER MONIKA SMOCZYNSKI
PRINT DCE NAME Addendum A	BY CH	CHECKED BY THIEN-LONG TRAN
APPROVED [Signature]	DATE 1/15/21	PROJECT ENGINEER
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-20146-D
INSPECTOR	DATE COMPLETED	



- 1 - 4" MINIMUM THICK LAYER OF STABILIZED DECOMPOSED GRANITE - CROWN AT CENTER, INSTALL AND COMPACT IN 2 INCH LIFTS. COLOR PER PLAN
 - 2 - CONCRETE EDGE PER SDL-103
 - 3 - FINISH GRADE
 - 4 - COMPACTED OR UNDISTURBED SUBGRADE
- NOTE: INSTALL WEED BARRIER (BY MIRAFI OR APPROVED EQUAL) PRIOR TO INSTALLATION OF DECOMPOSED GRANITE SURFACE



- 1 - DECORATIVE ROCK PER PLAN
- 2 - CONCRETE MOWCURB PER SDL-103
- 3 - STEEL STAKES
- 4 - FINISH GRADE
- 5 - 95% COMPACTED OR UNDISTURBED SUBGRADE
- 6 - 5 OUNCE THICK (MIN) FILTER FABRIC CONTINUOUS WEED BARRIER BY MIRAFI OR APPROVED EQUAL

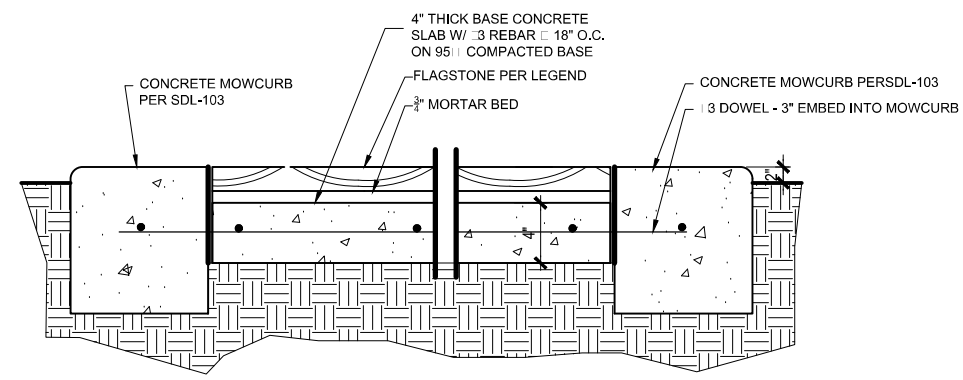


- 1 - PLANT COLLAR TO BE 1" ABOVE FINISH GRADE
- 2 - BARK MULCH
- 3 - 3" WIDE WATER BASIN - TOP NOT TO EXCEED BOTTOM OF PLANT GROWTH.
- 4 - FINISH GRADE.
- 5 - PLANT TABLETS - SET 3" BELOW FINISH GRADE.
- 6 - PLANTING BACKFILL - SEE SPECS.
- 7 - UNDISTURBED SOIL
- 8 - TWO TIMES ROOTBALL WIDTH
- 9 - ROOTBALL DEPTH

A DECOMPOSED GRANITE WALK NO SCALE

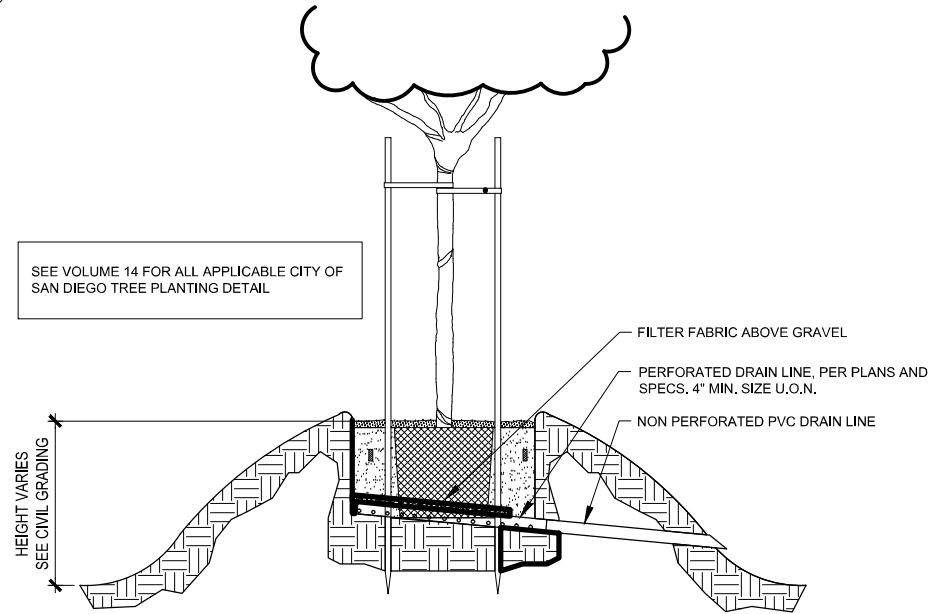
B ROCK MULCH W/ MOWCURBS NO SCALE

C CACTUS PLANTING NO SCALE

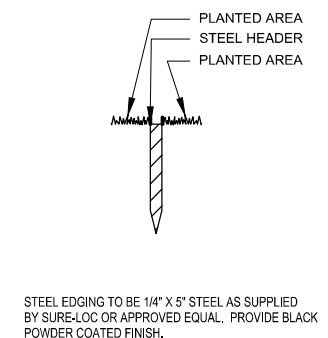


NOTE: 2500 PSI CONCRETE
NOTE: 1" MORTAR JOINTS BETWEEN FLAGSTONE PAVERS

D FLAGSTONE PAVING ON CONCRETE BASE AT CIRCULAR PATIO NO SCALE



E TREE PLANTING ON MOUND W/ DAYLIGHT DRAIN NO SCALE



F STEEL HEADER NO SCALE

PK2-L-503

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
LANDSCAPE PLANTING DETAILS

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 147 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C70321	PROJECT MANAGER MONIKA SMOCZYNSKI
PRINT DCE NAME Andrea Demich	RCE#	PROJECT ENGINEER THIEN-LONG TRAN
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED [Signature]	DATE 1/15/21	FILM
		260-1709 CCS27 COORDINATE
		1900-6269 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-20147-D
INSPECTOR	DATE COMPLETED	

CONSULTANT

MARUM PARTNERSHIP

10680 TREENA STREET, SUITE 100
SAN DIEGO, CA 92131
PHONE: 619-992-9533

REGISTERED LANDSCAPE ARCHITECT
2164
MONIKA SMOCZYNSKI
RENEW 11/30/2021
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/06/2021

WARNING
0 1
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IRRIGATION GENERAL NOTES

- 1. IRRIGATION SOURCE IS RECYCLED WATER WITH AN APPROXIMATE PRESSURE OF 150 PSI BEFORE THE POINT OF CONNECTION...
2. IRRIGATION POINT OF CONNECTIONS: VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD...
3. CONTRACTOR SHALL CONFORM TO ALL CITY, REGIONAL AND STATE BUILDING/PLUMBING CODES FOR ALL WORK SHOWN...
4. PROJECT IS A RENOVATION, PLEASE REFER TO AS-BUILT RECORD DRAWINGS FOR MORE DETAILED EXISTING LANDSCAPE IRRIGATION INFORMATION...
5. IRRIGATION EQUIPMENT, MAINLINE AND LATERAL ROUTING ARE SHOWN DIAGRAMMATICALLY FOR CLARITY...
6. CONTRACTOR SHALL NOTIFY "DIG ALERT" (800) 227.2600 OR 811, AT LEAST TWO WORKING DAYS BEFORE ANY EXCAVATION...
7. CONTRACTOR TO KEEP A SET OF FIELD ADJUSTED REDLINE DRAWINGS DOCUMENTING FIELD CHANGES...
8. CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS...
9. CONTRACTOR SHALL INSTALL IRRIGATION VALVE AND EQUIPMENT BOXES IN PLANTING AREAS...
10. THE CONTRACTOR SHALL INSTALL 2 EXTRA CONTROL WIRES TO EACH VALVE CLUSTER...
11. MINIMUM CONTROL WIRE SIZE 14 GAUGE, MINIMUM GROUND WIRE SIZE 10 GAUGE...
12. SLEEVE QUANTITIES AND LOCATIONS ARE SCHEMATIC ONLY...
13. AT LOCATIONS WHERE MAINLINE OR LATERAL PIPE IS EXPOSED TO ULTRA VIOLET (UV) LIGHT...
14. ALL 'EXISTING TO REMAIN' LANDSCAPE AREAS SHALL BE RESTORED TO ORIGINAL OPERATION...
15. ALL SPRAY IRRIGATION SHALL BE SET BACK 24" AWAY FROM HARDSCAPE AREAS...
16. ALL BASIN BOTTOM IRRIGATION SPRAY PIPE AND HEADS SHALL BE INSTALLED AT THE TOE OF SLOPE...
17. IRRIGATION CONTROL SYSTEM IS AN UPGRADE TO FLOW MONITORING AND CONTROL THAT RETAINS THE EXISTING IRRIGATION CONVENTIONAL WIRING AND INTEGRATES NEW 2 WIRE CONTROL ZONES...

IRRIGATION CONTROL NOTES

- 1. IRRIGATION CONTROL SYSTEM IS AN UPGRADE TO FLOW MONITORING AND CONTROL THAT RETAINS THE EXISTING IRRIGATION CONVENTIONAL WIRING AND INTEGRATES NEW 2 WIRE CONTROL ZONES.
2. IRRIGATION CONTROL ASSUMES A CELLULAR CONNECTION IS AVAILABLE. VERIFY CONNECTION IS AVAILABLE AND ACTIVE FROM THE MANUFACTURER PRIOR TO ORDERING ANY CONTROL SYSTEM COMPONENTS.
3. IRRIGATION CONTROL SYSTEM REQUIRES A RADIO SURVEY PRIOR TO ORDERING CONTROL SYSTEM COMPONENTS. CONTACT CALSENSE REPRESENTATIVE ERIN HAGEN AT 760.580.1835 TO SCHEDULE SURVEY.
4. MAXIMUM 2WIRE RUN OF ALL COMBINED WIRE SPURS IS 7,000 FEET PER CONTROLLER.
5. IF AN ETHERNET CONNECTION IS USED, THE CAT 5/6 LINE SHALL BE IN CONDUIT AND BE NO MORE THAN 328 FEET TO THE NEAREST ROUTER.
6. EACH POINT OF CONNECTION REQUIRES A STATION DECODER, A POC DECODER AND GROUNDING.
7. INSTALLATION AND OPERATION OF ALL CALSENSE PRODUCTS SHALL BE INSPECTED AND CERTIFIED IN WRITING BY A CALSENSE FACTORY REPRESENTATIVE.

IRRIGATION SYMBOL LEGEND

Table listing irrigation symbols and their corresponding components, including existing irrigation points, valves, controllers, ball valves, pressure regulators, and remote control valves.

EXISTING VALVE IDENTIFICATION LEGEND:

Table for existing valve identification, showing symbols for controller stations, remote control valves, and flow rates (GPM).

NEW VALVE IDENTIFICATION LEGEND:

Table for new valve identification, showing symbols for controller stations, remote control valves, and flow rates (GPM).

PIPE SIZING LEGEND - MAXIMUM ALLOWABLE FLOW

Table showing maximum allowable flow for pipe sizes (3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4") across different pressure mainline conditions (SCH 40 and CL. 315).

MAXIMUM ALLOWABLE FLOW FOR VELOCITY BELOW 5 FEET PER SECOND DOES NOT IMPLY ASSOCIATED FRICTION / PRESSURE LOSSES ACCEPTABLE IN A GIVEN CONDITION.

IRRIGATION SYMBOL LEGEND FOR LOW PRECIP. ROTATORS

HUNTER IRRIGATION LEGEND FOR MP ROTATORS

Tables listing Hunter irrigation symbols and models for SHRUB POP-UP STRIP ROTOR, SHRUB POP-UP CORNER ROTOR, SHRUB POP-UP ROTOR - SHORT RADIUS, and LOW GROUND COVER POP-UP ROTOR.

HUNTER IRRIGATION LEGEND FOR SPRAY

Table listing Hunter irrigation symbols and models for SHRUB SPRAY HEAD, including GPM and DIL. S.L. values.

IRRIGATION SYMBOL LEGEND FOR FLOOD BUBBLERS

Table listing irrigation symbols and models for TREE BUBBLER and SHRUB BUBBLER.

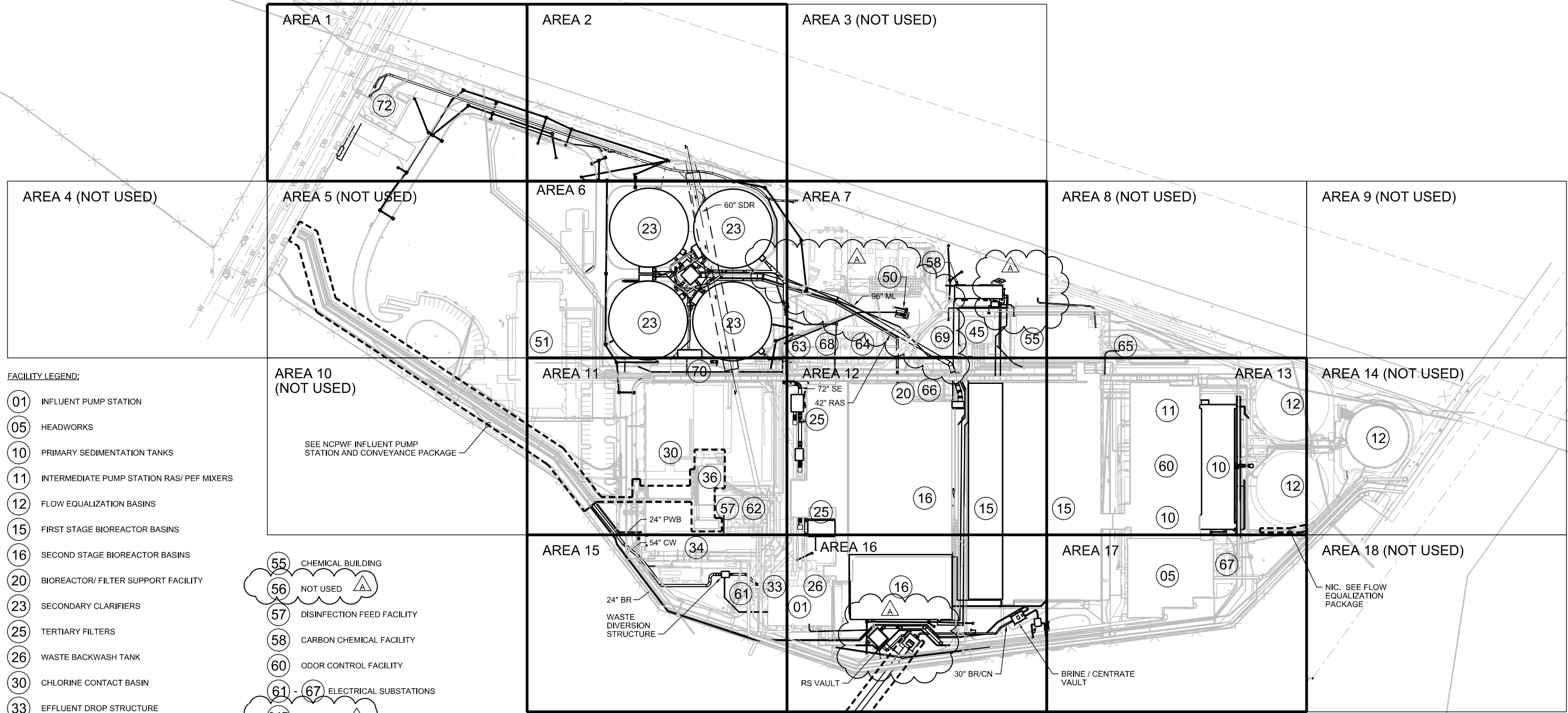
PK2-L-601

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

IRRIGATION LEGEND AND NOTES

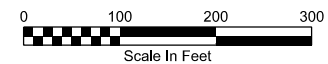
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 148 OF 1169 SHEETS. Includes project manager information, date (12/03/2020), and contractor details (STUDIO WEST).

CONSULTANT: STUDIO WEST LANDSCAPE ARCHITECTURE & PLANNING. Includes logo, address (3625 Ruffin Rd., Suite 108, San Diego, CA 92123), and contact information.



- FACILITY LEGEND:**
- (01) INFLUENT PUMP STATION
 - (05) HEADWORKS
 - (10) PRIMARY SEDIMENTATION TANKS
 - (11) INTERMEDIATE PUMP STATION RAS/ PEF MIXERS
 - (12) FLOW EQUALIZATION BASINS
 - (15) FIRST STAGE BIOREACTOR BASINS
 - (16) SECOND STAGE BIOREACTOR BASINS
 - (20) BIOREACTOR/ FILTER SUPPORT FACILITY
 - (23) SECONDARY CLARIFIERS
 - (25) TERTIARY FILTERS
 - (26) WASTE BACKWASH TANK
 - (30) CHLORINE CONTACT BASIN
 - (33) EFFLUENT DROP STRUCTURE
 - (34) EFFLUENT PUMP STATION
 - (36) NCPWF INFLUENT PUMP STATION
 - (45) BLENDED SLUDGE PUMP STATION
 - (50) STORMWATER PUMP STATION
 - (51) OPERATIONS BUILDING
 - (55) CHEMICAL BUILDING
 - (56) NOT USED
 - (57) DISINFECTION FEED FACILITY
 - (58) CARBON CHEMICAL FACILITY
 - (60) ODOR CONTROL FACILITY
 - (61 - 67) ELECTRICAL SUBSTATIONS
 - (64B) NOT USED
 - (68) ELECTRICAL MAIN PLANT SWITCHGEAR
 - (69) ELECTRICAL SWITCHGEAR SUBSTATION
 - (70) SECONDARY CLARIFIER ELECTRICAL BUILDING
 - (72) ELECTRICAL SWITCHGEAR

NOTE:
FOR FLOW STREAMS NOT IDENTIFIED ON
THE PIPE SCHEDULE G-103 AND G-104,
SEE I&C LEGEND DWG G-017.



PK2-Y-100

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION

**YARD PIPING
OVERALL PLAN**

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 155 OF 1169 SHEETS

APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020	PROJECT MANAGER MONIKA SMOCZYNSKI
PRINT DCE NAME Andrea Demich	RCE# C70321	CHECKED BY THIEN-LONG TRAN
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED <i>Andrea Demich</i>	DATE 1/15/21	FILM 260-1709
		1900-6269
		40381-2155-D

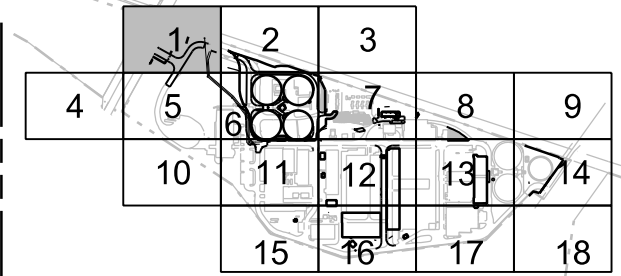
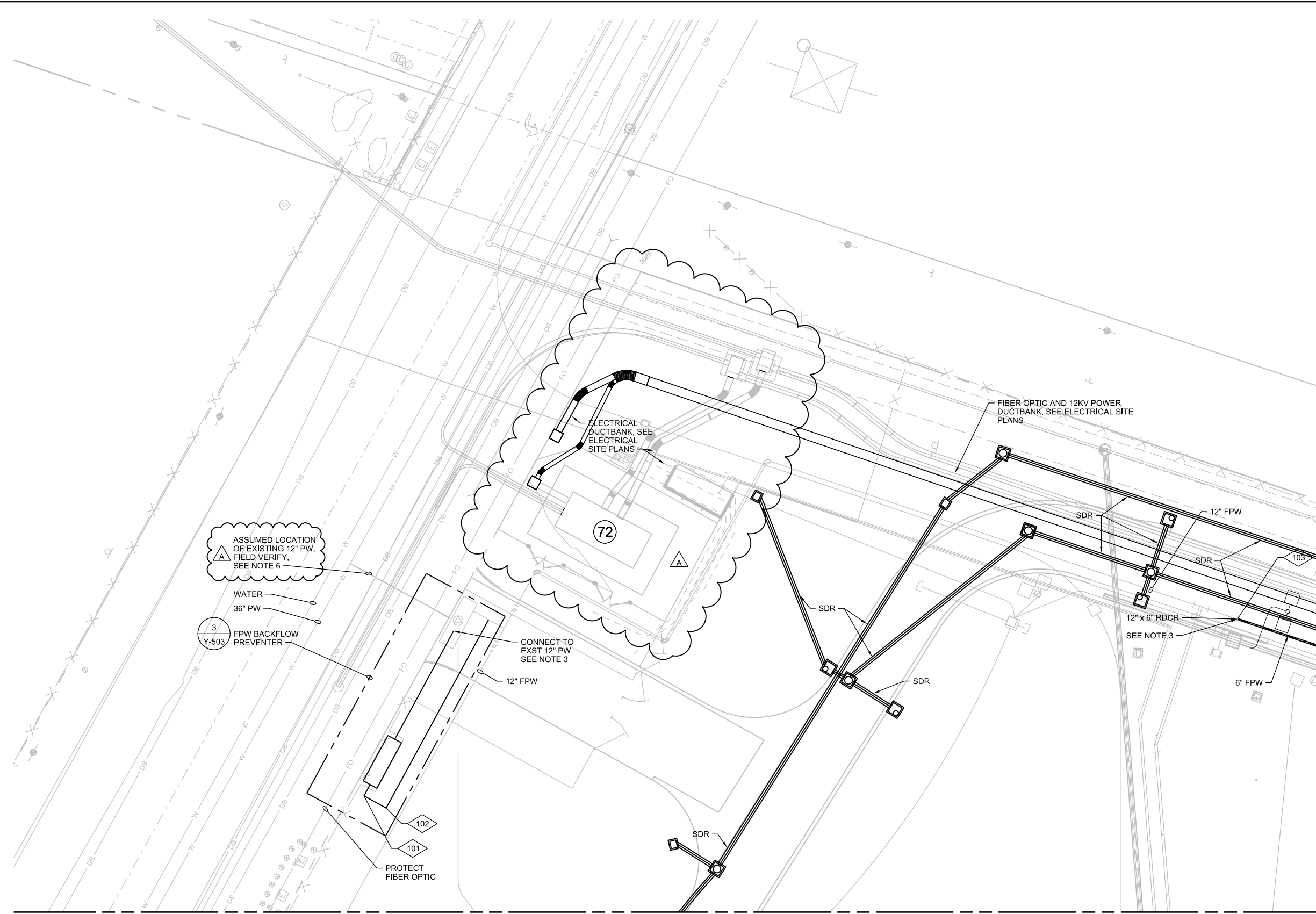
CONSULTANT

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DIGITALLY SIGNED: 01/05/2021

CONTRACTOR INSPECTOR





KEYPLAN
NTS

- NOTE:**
- FOR SDR PIPING INFORMATION, SEE DWG CG-101.
 - FOR SITE ELECTRICAL, SEE DWG ES-101.
 - CONNECT TO EXISTING FPW. REMOVE CAP AND PROVIDE RESTRAINED JOINT. FIELD VERIFY LOCATION AND DEPTH.
 - SDR SIZES NOT CALLED OUT FOR CLARITY.
 - SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.
 - CONTRACTOR TO COORDINATE WITH CITY FOR ISOLATION OF 12" FPW LINE.

PIPING COORDINATE TABLE

POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
101	12" FPW, 90° BEND	*	1901726.89	6270253.91
102	12" FPW, 90° BEND	*	1901717.45	6270256.70
103	6" FPW, CONNECTION TO EXST	334.0±	1901535.87±	6270541.84±

NOTE: * = MINIMUM COVER

MATCHLINE, SEE DWG Y-102

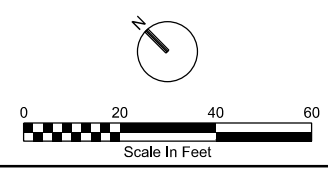
ASSUMED LOCATION OF EXISTING 12" PW. FIELD VERIFY. SEE NOTE 6

WATER
36" PW
3
Y-503
FPW BACKFLOW PREVENTER

CONNECT TO EXST 12" PW. SEE NOTE 3

PROTECT FIBER OPTIC

MATCH LINE, NOT USED



PK2-Y-101

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

YARD PIPING PLAN - AREA 1

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 156 OF 1169 SHEETS

APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER	DATE: 12/03/2020	PROJECT MANAGER: MONIKA SMOCZYNSKI
PRINT DCE NAME: Andrea Demich	RCE#: C70321	CHECKED BY: THIEN-LONG TRAN
DESCRIPTION: Addendum A	BY: CH	DATE FILM: 1/15/21
DATE STARTED: _____		DATE COMPLETED: _____

CONSULTANT

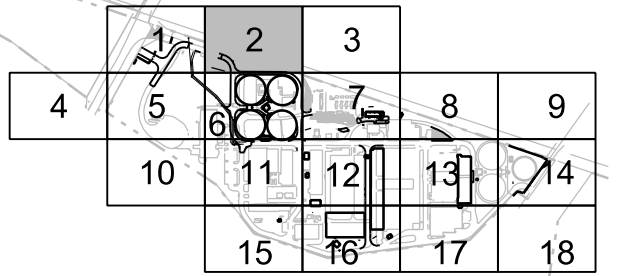
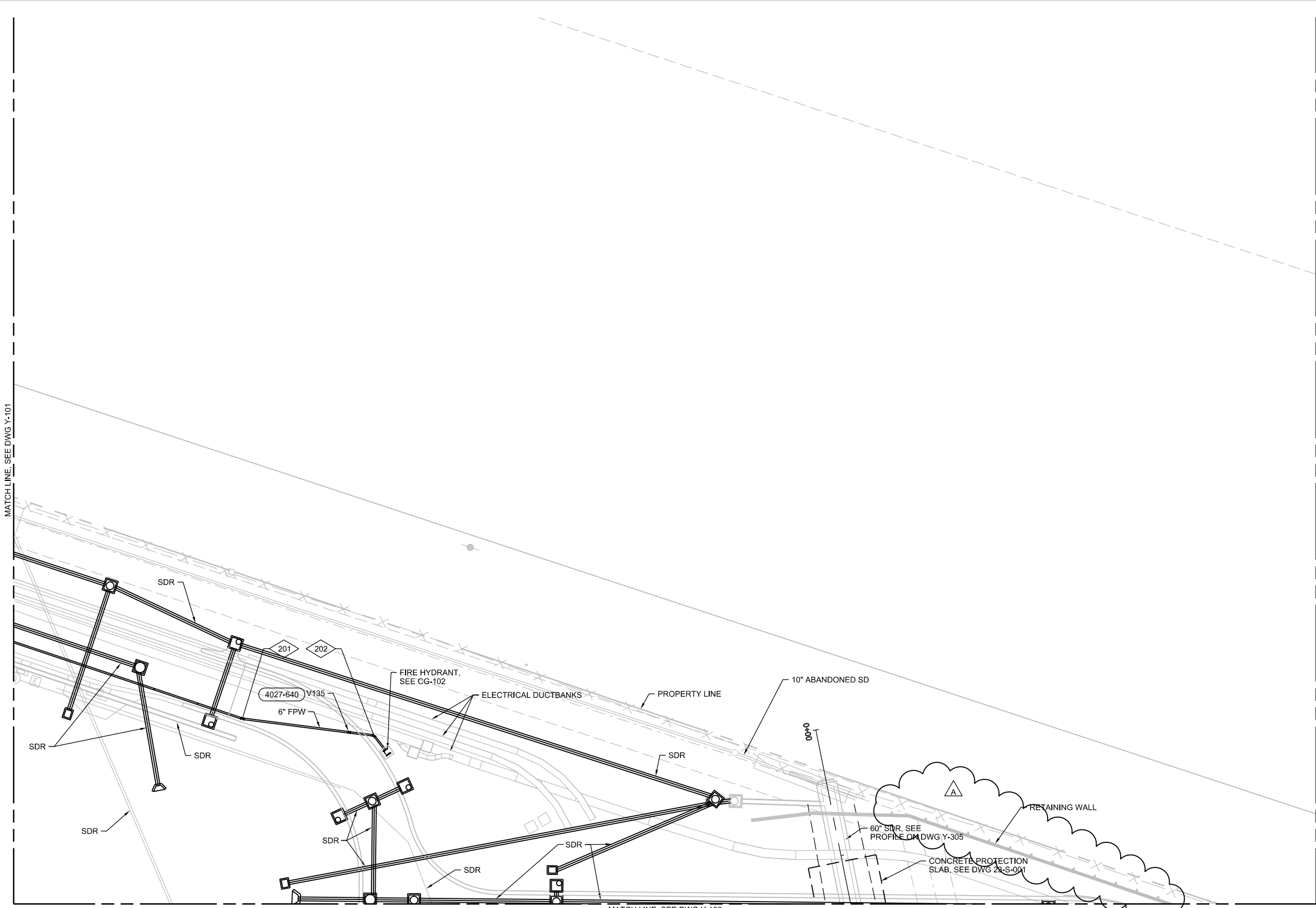
WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DIGITALLY SIGNED: 01/05/2021

CONTRACTOR INSPECTOR

MATCH LINE, SEE DWG Y-101

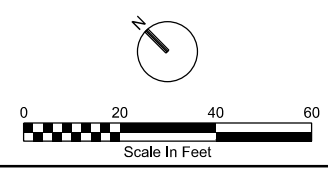
MATCH LINE, NOT USED



KEYPLAN
NTS

- NOTE:**
- FOR SDR PIPING INFORMATION, SEE DWG CG-102.
 - FOR SITE ELECTRICAL, SEE DWG ES-102.
 - SDR SIZES NOT CALLED OUT FOR CLARITY.
 - SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.

PIPING COORDINATE TABLE				
POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
201	6" FPW, 11.25° BEND	334.00	1901419.44	6270599.85
202	6" FPW, 45° BEND	334.00	1901378.46	6270631.56



PK2-Y-102

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

YARD PIPING PLAN - AREA 2

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 157 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 DATE: 07/03/21 RCE#	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
△ Addendum A	CH	<i>Andrea Demich</i>
		DATE
		1/15/21
		FIRM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
		40381-2157-D

CONSULTANT

WARNING

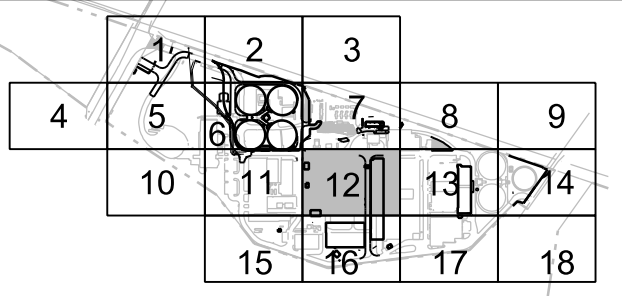
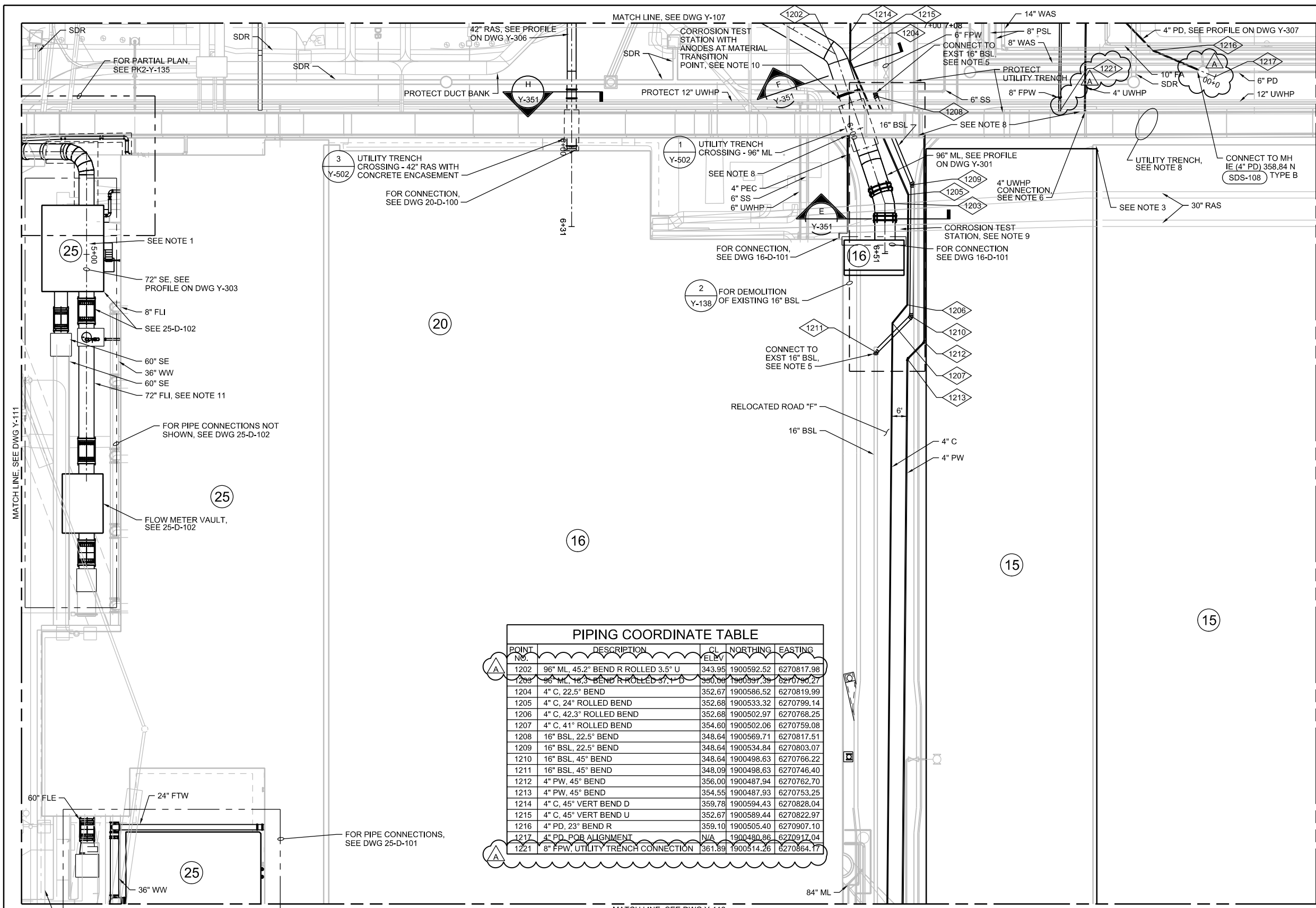
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DIGITALLY SIGNED: 01/05/2021

CONTRACTOR INSPECTOR

DATE STARTED

DATE COMPLETED

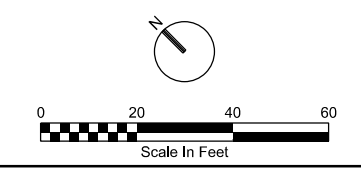


KEYPLAN
NTS

- NOTES:**
- REMOVE EXISTING SECTIONS OF 72" FLI AND 60" SE AND CONNECT TO NEW FILTER INFLUENT STRUCTURE. FOR CONTINUATION, SEE 25-D-100.
 - NOT USED.
 - FOR SITE ELECTRICAL, SEE DWG ES-112.
 - FOR SDR PIPING INFORMATION, SEE DWG CG-112.
 - CONNECT TO EXISTING PVC PIPE WITH RESTRAINED MJ FITTING OR RESTRAINED COUPLING. INSTALL IN ACCORDANCE WITH MFG RECOMMENDATIONS. PROVIDE CORROSION PROTECTION AS SPECIFIED. SEE SPECIFICATION 33 05 01.09.
 - CONNECT TO EXISTING PVC PIPE WITH 12"x4" TEE. PROVIDE RESTRAINED COUPLING AND CORROSION PROTECTION PER SPECIFICATION 33 05 01.09.
 - EXCAVATION SUPPORT PLAN REQUIRED PER SPECIFICATION 31 41 00. FINAL LOCATIONS, EXTENT OF, AND DESIGN OF SHORING TO BE DETERMINED BY THE CONTRACTOR.
 - FOR CONNECTION AND ROUTING DETAILS OF PIPES IN UTILITY TRENCH, SEE DWG Y-150.
 - INSTALL 2-WIRE TEST STATION PER DETAIL 4 ON SHEET CP-101. CONNECT STRUCTURE LEADS WITHIN 5 FEET OF BASIN WALL.
 - INSTALL 2-WIRE TEST STATION WITH 2-ANODES PER DETAIL 1 ON SHEET CP-101. FIELD LOCATE ANODES AND TEST BOX AS NEEDED TO AVOID CONFLICT WITH OTHER BURIED STRUCTURES.
 - SEE DWG 25-D-102 FOR CORROSION CONTROL REQUIREMENTS ON 72" FLI.
 - NOT USED.
 - SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.
 - FPW LOCATED INSIDE UTILITY TRENCH TO STAY IN SERVICE DURING CONSTRUCTION.

PIPING COORDINATE TABLE

POINT NO.	DESCRIPTION	CL ELEV.	NORTHING	EASTING
1202	96" ML, 45.2° BEND R ROLLED 3.5° U	343.95	1900592.52	6270817.98
1203	96" ML, 18.3° BEND R ROLLED 37.1° D	350.06	1900397.39	6270790.27
1204	4" C, 22.5° BEND	352.67	1900586.52	6270819.99
1205	4" C, 24° ROLLED BEND	352.68	1900533.32	6270799.14
1206	4" C, 42.3° ROLLED BEND	352.68	1900502.97	6270768.25
1207	4" C, 41° ROLLED BEND	354.60	1900502.06	6270759.08
1208	16" BSL, 22.5° BEND	348.64	1900569.71	6270817.51
1209	16" BSL, 22.5° BEND	348.64	1900534.84	6270803.07
1210	16" BSL, 45° BEND	348.64	1900498.63	6270766.22
1211	16" BSL, 45° BEND	348.09	1900498.63	6270746.40
1212	4" PW, 45° BEND	356.00	1900487.94	6270762.70
1213	4" PW, 45° BEND	354.55	1900487.93	6270753.25
1214	4" C, 45° VERT BEND D	359.78	1900594.43	6270828.04
1215	4" C, 45° VERT BEND U	352.67	1900589.44	6270822.97
1216	4" PD, 23° BEND R	359.10	1900505.40	6270907.10
1217	4" PD, POB ALIGNMENT	N/A	1900480.86	6270917.04
1221	8" FPW, UTILITY TRENCH CONNECTION	361.89	1900514.26	6270864.17



PK2-Y-112

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

YARD PIPING PLAN - AREA 12

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 161 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER DATE: 12/03/2020 PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C70321 RCE#	SUBMITTED BY: MONIKA SMOczynski PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION: Addendum A	BY: CH	APPROVED: <i>Andrea Demich</i>
		DATE FILM: 1/15/21
		260-1709
		1900-6269
		40381-2161-D

CONSULTANT

ch2mSM

DIGITALLY SIGNED: 01/05/2021

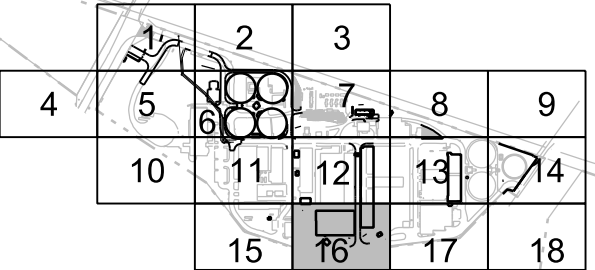
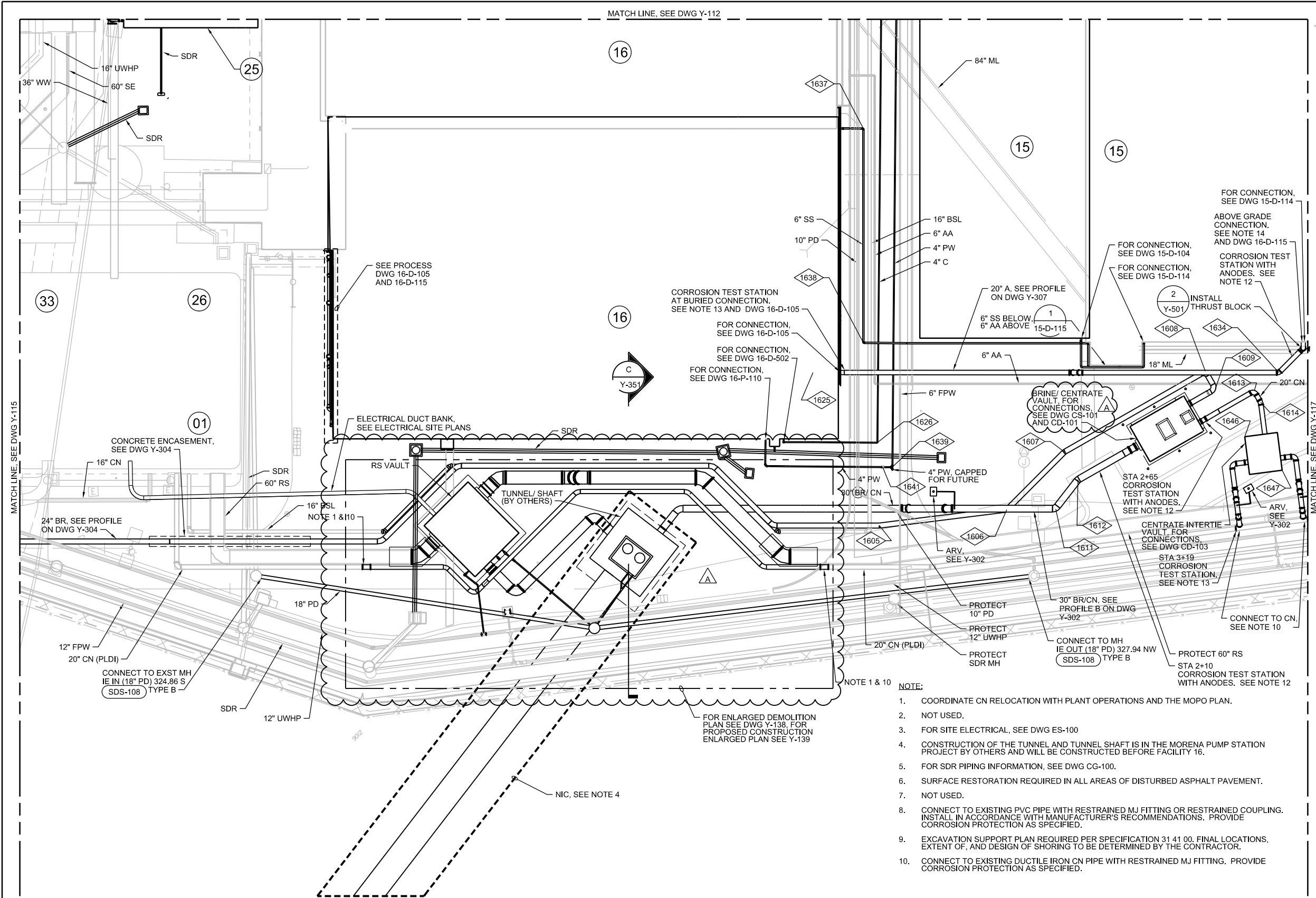
CONTRACTOR _____
INSPECTOR _____

DATE STARTED _____
DATE COMPLETED _____

WARNING

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KEYPLAN
NTS

NOTES (CONTINUED):

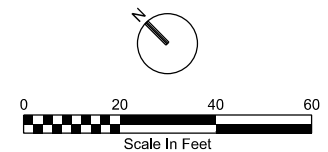
11. INSTALL 2-WIRE TEST STATION PER DETAIL 4 ON SHEET CP-101
12. INSTALL 2-WIRE TEST STATION WITH 2-ANODES PER DETAIL 1 ON SHEET CP-101
13. INSTALL FLANGE ISOLATION KIT AND 4-WIRE TEST STATION AT BURIED CONNECTION PER DETAIL 2 ON SHEET CP-101
14. INSTALL ABOVE GRADE FLANGE ISOLATION KIT AT CONNECTION POINT PER DETAIL 3 ON SHEET CP-101
15. NOT USED.
16. PIPING BY MORENA PUMP STATION TUNNEL CONTRACT NOT SHOWN FOR CLARITY.

PIPING COORDINATE TABLE

POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
1605	24" BR, 7" BEND L	348.50	1900201.33	6270454.55
1606	24" BR, 38" BEND L	350.51	1900170.22	6270494.59
1607	24" BR, 15" BEND R	352.03	1900170.23	6270526.78
1608	24" BR, 90° BEND R ROLLED 2.2" D	354.54	1900153.40	6270588.60
1609	24" BR, 90° BEND R	354.46	1900145.68	6270586.50
1611	30" BR, 52" BEND L	354.46	1900156.88	6270508.48
1612	30" BR, 22.5° BEND R	354.46	1900158.71	6270522.81
1613	30" BR/CN, 90° BEND R	354.46	1900134.25	6270596.77
1614	30" BR/CN, 22.5° BEND R	354.46	1900129.26	6270595.41
1625	20" A, POB ALIGNMENT	N/A	1900262.59	6270478.72
1626	4" C, 90° BEND	354.55	1900225.02	6270477.14
1634	20" A, 45° BEND L	360.55	1900132.49	6270608.81
1637	6" SS, 90° BEND	358.17	1900316.58	6270560.88
1638	6" SS, 90° BEND	358.00	1900256.79	6270501.09
1639	4" PW, TEE ROLLED 45° D	354.55	1900213.99	6270474.47
1641	2" PW, 45° VERT BEND U	350.69	1900216.75	6270471.77
1646	CENTRATE VAULT CORNER	365.26	1900124.15	6270581.33
1647	CENTRATE VAULT CORNER	365.26	1900104.33	6270582.43

NOTE:

1. COORDINATE CN RELOCATION WITH PLANT OPERATIONS AND THE MOPO PLAN.
2. NOT USED.
3. FOR SITE ELECTRICAL, SEE DWG ES-100
4. CONSTRUCTION OF THE TUNNEL AND TUNNEL SHAFT IS IN THE MORENA PUMP STATION PROJECT BY OTHERS AND WILL BE CONSTRUCTED BEFORE FACILITY 16.
5. FOR SDR PIPING INFORMATION, SEE DWG CG-100.
6. SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED ASPHALT PAVEMENT.
7. NOT USED.
8. CONNECT TO EXISTING PVC PIPE WITH RESTRAINED MJ FITTING OR RESTRAINED COUPLING. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE CORROSION PROTECTION AS SPECIFIED.
9. EXCAVATION SUPPORT PLAN REQUIRED PER SPECIFICATION 31 41 00. FINAL LOCATIONS, EXTENT OF, AND DESIGN OF SHORING TO BE DETERMINED BY THE CONTRACTOR.
10. CONNECT TO EXISTING DUCTILE IRON CN PIPE WITH RESTRAINED MJ FITTING. PROVIDE CORROSION PROTECTION AS SPECIFIED.

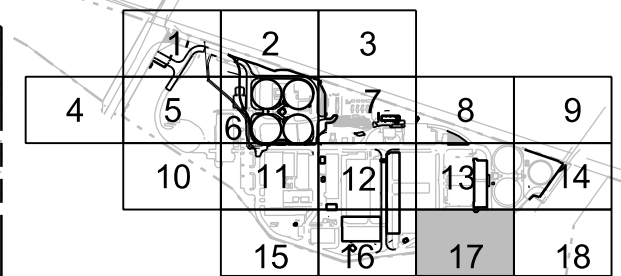
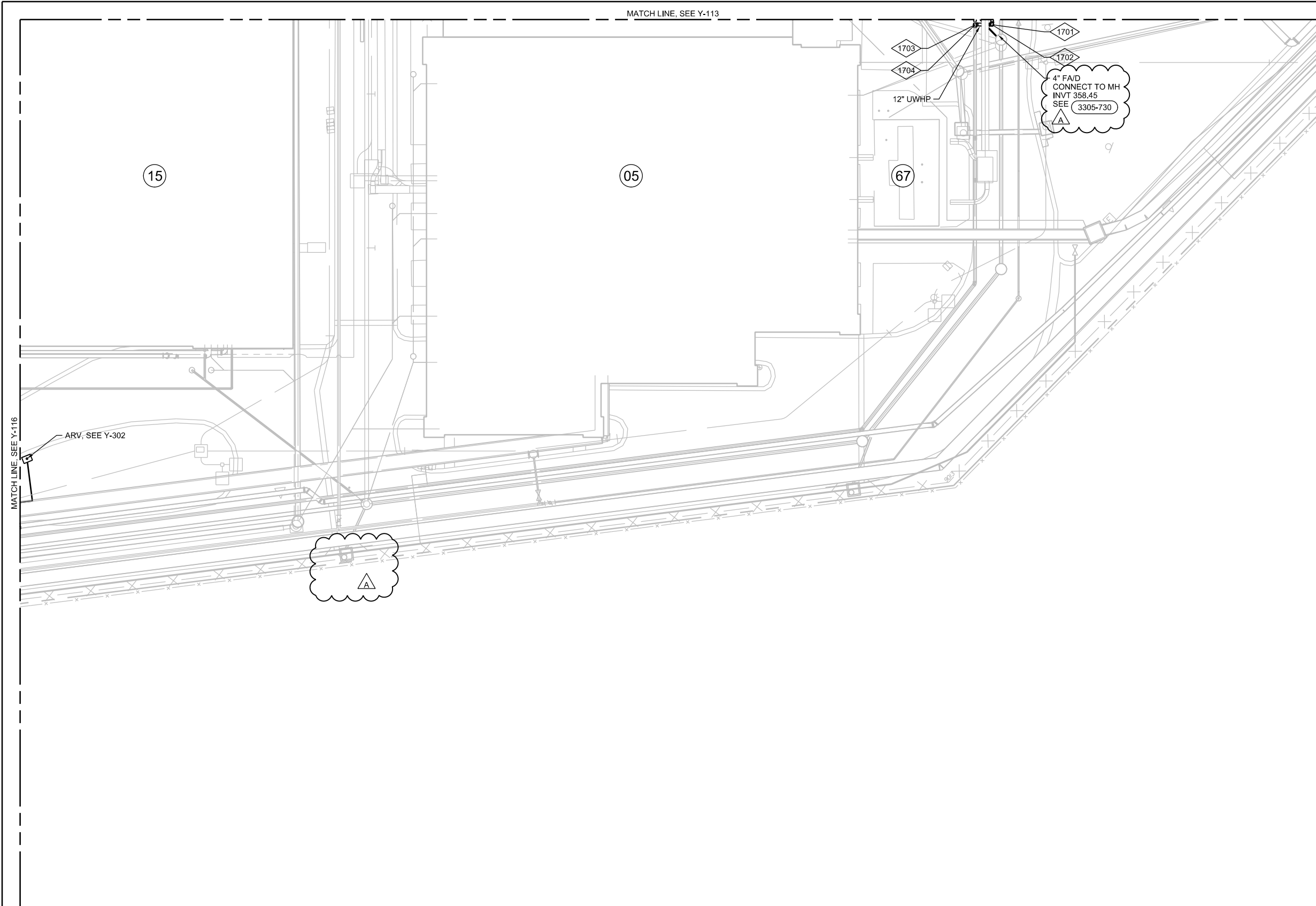


PK2-Y-116

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

YARD PIPING PLAN - AREA 16

CONSULTANT			
<p>WARNING</p> <p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE</p>		<p>CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 164 OF 1169 SHEETS</p> <p>DATE 12/03/2020 DATE C79321 RCE#</p> <p>PROJECT MANAGER: MONIKA SMOCZYNSKI PROJECT ENGINEER: THIEN-LONG TRAN</p> <p>DATE STARTED: _____ DATE COMPLETED: _____</p>	
<p>CONTRACTOR</p> <p>INSPECTOR</p>		<p>40381-2164-D</p>	



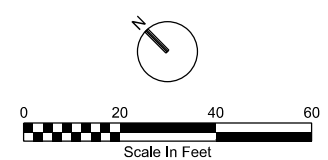
KEYPLAN
NTS

- NOTE:**
- FOR SDR PIPING INFORMATION, SEE CG -117.
 - SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.

PIPING COORDINATE TABLE				
POINT NO.	DESCRIPTION	CL. ELEV.	NORTHING	EASTING
1701	12" UWHP, 90° VERT BEND D	365.32	1899953.86	6270981.78
1702	12" UWHP, 90° VERT BEND U	361.10	1899953.86	6270981.78
1703	12" UWHP, 90° VERT BEND U	361.10	1899958.60	6270977.12
1704	12" UWHP, 90° VERT BEND D	364.18	1899958.55	6270977.07

MATCH LINE, NOT USED

MATCH LINE, SEE Y-116



PK2-Y-117

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION

**YARD PIPING
PLAN - AREA 17**

CONSULTANT

WARNING
0 1
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CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 165 OF 1169 SHEETS

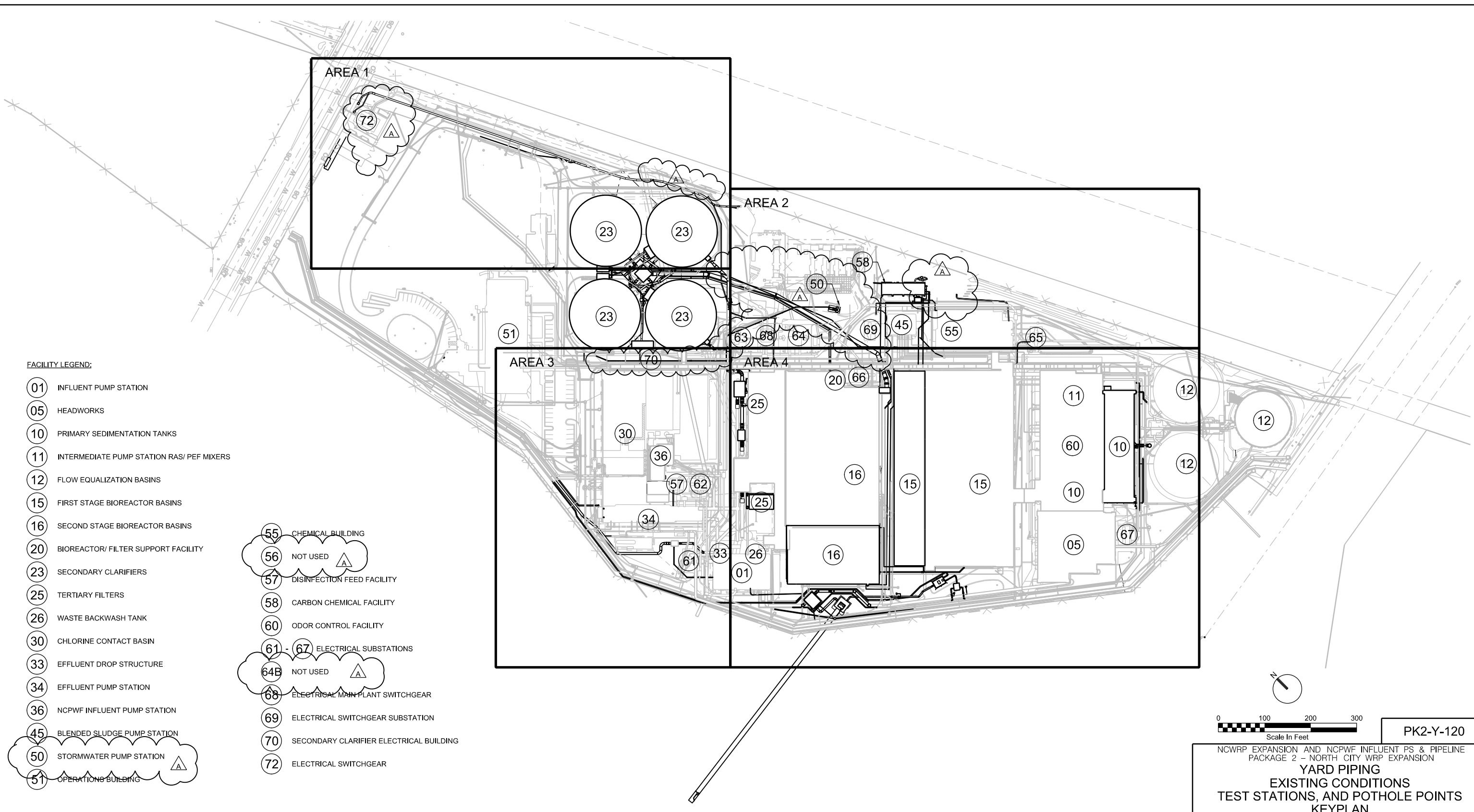
APPROVED: *Andrea Demich* DATE: 12/03/2020
FOR CITY ENGINEER: Andrea Demich DATE: C70321
PRINT DCE NAME: Andrea Demich RCE#

PROJECT MANAGER: MONIKA SMOCZYNSKI
PROJECT ENGINEER: THIEN-LONG TRAN

DESCRIPTION	BY	APPROVED	DATE	FIRM
Addendum A	CH	<i>Andrea Demich</i>	1/15/21	260-1709
				1900-6269

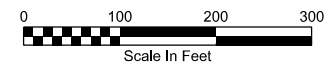
CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

40381-2165-D



FACILITY LEGEND:

- 01 INFLUENT PUMP STATION
- 05 HEADWORKS
- 10 PRIMARY SEDIMENTATION TANKS
- 11 INTERMEDIATE PUMP STATION RAS/ PEF MIXERS
- 12 FLOW EQUALIZATION BASINS
- 15 FIRST STAGE BIOREACTOR BASINS
- 16 SECOND STAGE BIOREACTOR BASINS
- 20 BIOREACTOR/ FILTER SUPPORT FACILITY
- 23 SECONDARY CLARIFIERS
- 25 TERTIARY FILTERS
- 26 WASTE BACKWASH TANK
- 30 CHLORINE CONTACT BASIN
- 33 EFFLUENT DROP STRUCTURE
- 34 EFFLUENT PUMP STATION
- 36 NCPWF INFLUENT PUMP STATION
- 45 BLENDED SLUDGE PUMP STATION
- 50 STORMWATER PUMP STATION
- 51 OPERATIONS BUILDING
- 55 CHEMICAL BUILDING
- 56 NOT USED
- 57 DISINFECTION FEED FACILITY
- 58 CARBON CHEMICAL FACILITY
- 60 ODOR CONTROL FACILITY
- 61 - 67 ELECTRICAL SUBSTATIONS
- 64B NOT USED
- 68 ELECTRICAL MAIN PLANT SWITCHGEAR
- 69 ELECTRICAL SWITCHGEAR SUBSTATION
- 70 SECONDARY CLARIFIER ELECTRICAL BUILDING
- 72 ELECTRICAL SWITCHGEAR



PK2-Y-120

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 2 - NORTH CITY WRP EXPANSION
YARD PIPING
EXISTING CONDITIONS
TEST STATIONS, AND POT HOLE POINTS
KEYPLAN

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC UTILITIES DEPARTMENT
 SHEET 166 OF 1169 SHEETS

APPROVED FOR CITY ENGINEER <i>Andrea Demich</i> DATE: 12/03/2020 PRINT DCE NAME: Andrea Demich RCE#	DATE: 12/03/2020 DATE: 1/15/21	PROJECT MANAGER MONIKA SMOCZYNSKI
DESCRIPTION Addendum A	BY CH	PROJECT ENGINEER THIEN-LONG TRAN
APPROVED <i>Andrea Demich</i>	DATE 1/15/21	260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
DATE STARTED		40381-2166-D

CONSULTANT

WARNING
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 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

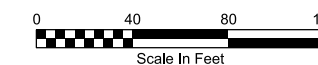
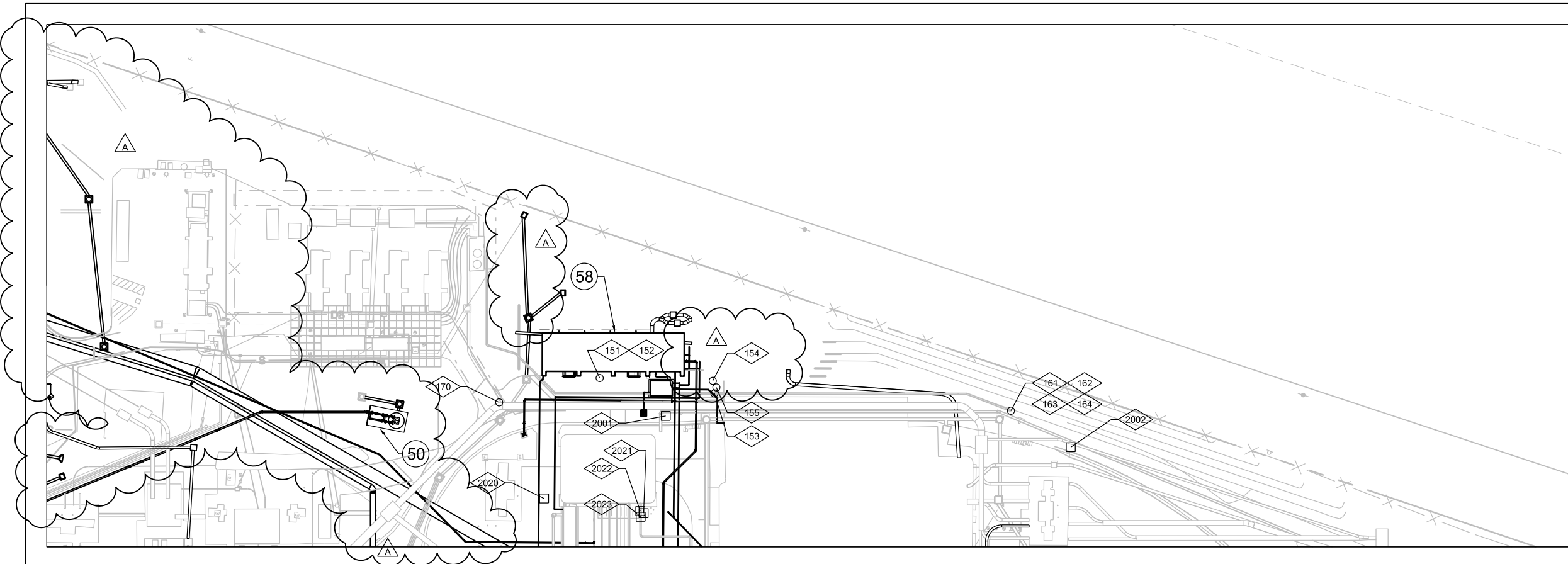
REGISTERED PROFESSIONAL ENGINEER
 JOHN J. [Signature]
 CIVIL
 STATE OF CALIFORNIA
 EXP. 01/05/2021

DIGITALLY SIGNED: 01/05/2021

CONTRACTOR INSPECTOR

NOTES:

1. SEE Y-121 FOR INFORMATION TABLES.
2. SEE POTHOLE TABLE ON Y-121.



PK2-Y-122

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 2 - NORTH CITY WRP EXPANSION
YARD PIPING
EXISTING CONDITIONS
TEST STATIONS, AND POTHOLE POINTS
PLAN - AREA 2

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC UTILITIES DEPARTMENT
 SHEET 168 OF 1169 SHEETS

B-16149, S-17012
 WBS B-15142

APPROVED FOR CITY ENGINEER <i>Andrea Demich</i> PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 DATE: C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION	BY	APPROVED
△ Addendum A	CH	<i>Andrea Demich</i>
		DATE
		1/15/21
		FIRM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
		40381-2168-D

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
 JOHN B. SMITH
 CIVIL
 STATE OF CALIFORNIA
 EXP. 01/05/2021

DIGITALLY SIGNED: 01/05/2021

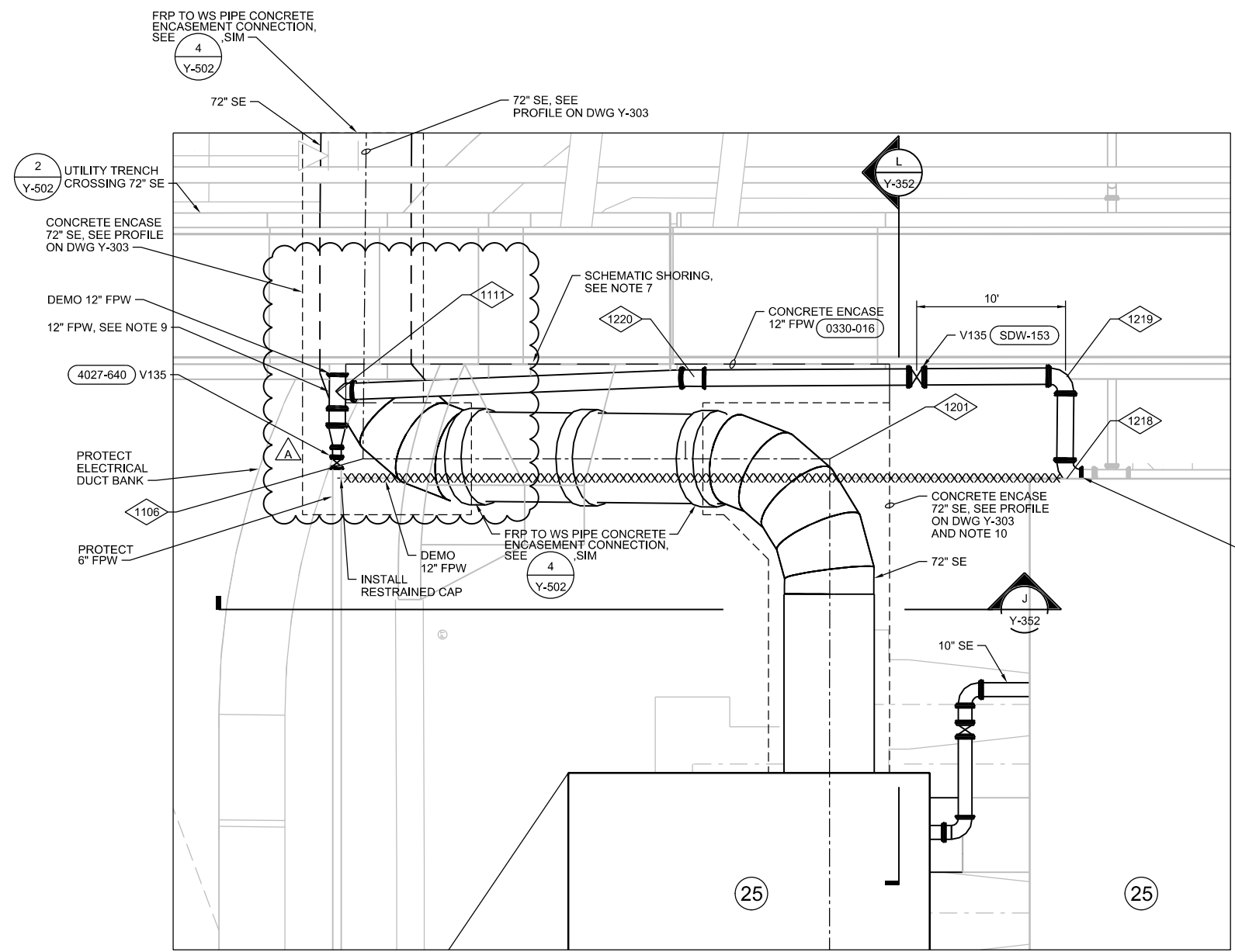
CONTRACTOR INSPECTOR

DATE STARTED

DATE COMPLETED

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- NOTES:
- FOR SDR PIPING INFORMATION, SEE DWG CG-111 AND CG-112.
 - FOR SITE ELECTRICAL, SEE DWG ES-111 AND ES-112.
 - INSTALL 2-WIRE TEST STATION WITH 2-ANODES PER DETAIL 1 ON SHEET CP-101. ATTACH STRUCTURE LEAD WIRES WITHIN 5 FEET OF TRANSITION TO NON-METALLIC PIPE.
 - COUPLING ON 48" SE CLOSEST TO CLARIFIER NO. 1 AND NO.3. SHALL BE A BAKER TYPE 216 INSULATING COUPLING. INSTALL 4-WIRE TEST STATION AT INSULATING COUPLING PER DETAIL 2 ON DWG CP-101. SECOND COUPLING SHALL BE BONDED FOR ELECTRICAL CONTINUITY PER DETAIL 3 ON DWG CP-102. SEE DWG Y-106 FOR 48" SE CORROSION CONTROL REQUIREMENTS ON CLARIFIER NO. 2 AND NO. 4.
 - INSTALL 2-WIRE TEST STATION PER DETAIL 4 ON DWG CP-101. ATTACH STRUCTURE LEAD WIRES ON END 42" RAS TEE.
 - SEE DWG 23-D-111 AND 23-D-301 FOR CORROSION CONTROL REQUIREMENTS ON BURIED 48" ML LINES.
 - NOT USED.
 - SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.
 - CONNECT TO EXISTING 12" FPW WITH NEW 12" x 12" TEE. INSTALL 12" x 6" RDCR ON SW BRANCH AND INSTALL NEW 6" FPW TO CONNECT WITH EXISTING 6" FPW.
 - THE NE AND SE FACE OF THE CONCRETE ENCASEMENT ARE INTENDED TO ACT AS A THRUST BLOCK TO RESIST JOINT PULLOUT. PROVIDE MIN BEARING AREA OF 90 SQ FT. SEE SECTION Y-352 FOR MINIMUM BEARING AREA ON SOUTH FACE.

PIPING COORDINATE TABLE				
POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
1201	72" SE, 90° BEND ROLLED 31.2" D	346.08	1900773.44	6270582.81
1106	72" SE, 90° BEND ROLLED 31.2" U	327.14	1900795.77	6270560.92
1111	12" FPW, TEE	341.54	1900799.98	6270562.70
1218	12" FPW, 90° BEND	346.27	1900761.42	6270593.16
1219	12" FPW, 90° BEND	346.27	1900766.18	6270598.01
1220	12" FPW, 11.25° VERT BEND D	346.25	1900783.88	6270580.16

1 ENLARGED PLAN
1"=5"
PK2-Y-111
PK2-Y-112

Scale In Feet: 0, 5, 10, 15

PK2-Y-135

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

YARD PIPING ENLARGED PLAN

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 171 OF 1169 SHEETS

B-16149, S-17012
WBS B-15142

APPROVED: *Andrea Demich* DATE: 12/03/2020
FOR CITY ENGINEER: Andrea Demich DATE: 07/03/21

SUBMITTED BY: **MONIKA SMO CZYNSKI**
PROJECT MANAGER

CHECKED BY: **THIEN-LONG TRAN**
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FIRM
Addendum A	CH	<i>Andrea Demich</i>	1/15/21	

260-1709
CCS27 COORDINATE: 1900-6269
CCS83 COORDINATE: 40381-2171-D

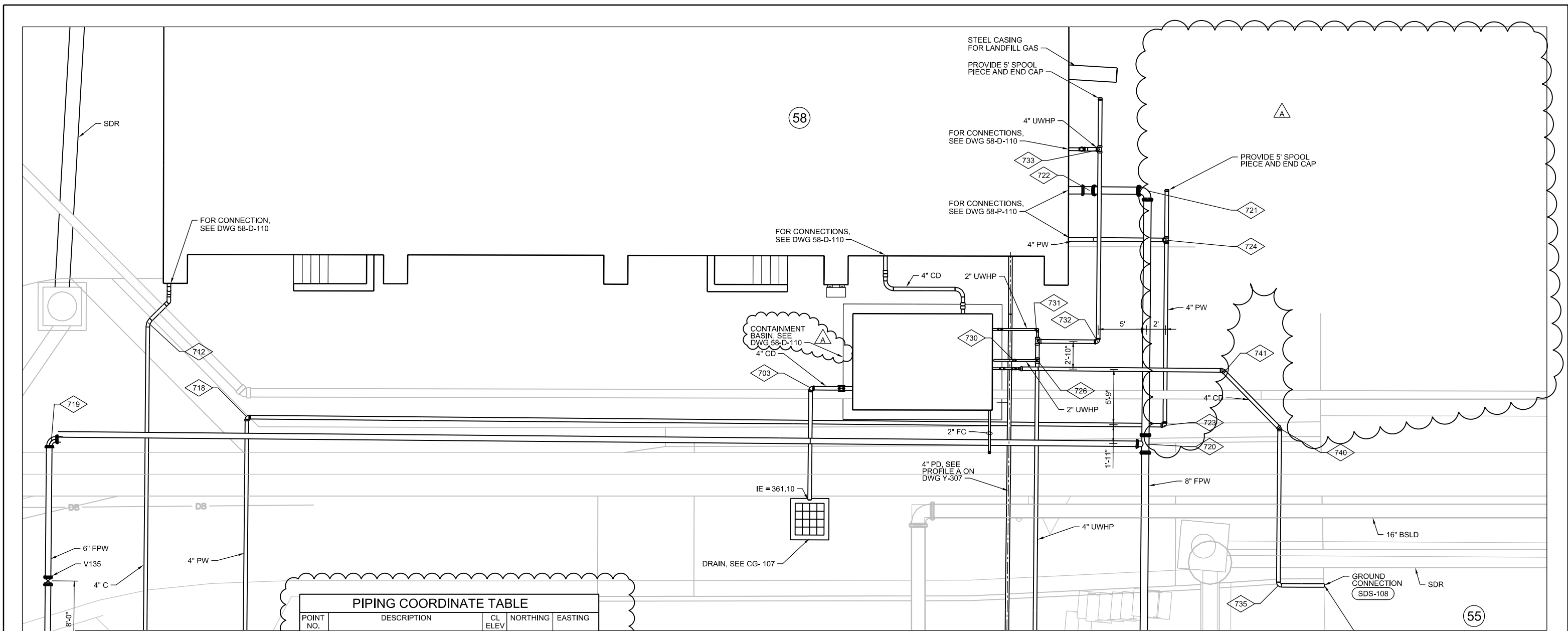
CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

CONSULTANT

ch2m

WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

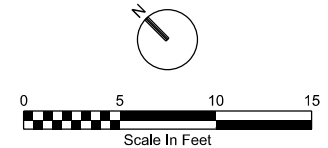
DIGITALLY SIGNED: 01/05/2021



PIPING COORDINATE TABLE

POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
703	4" D, 90° BEND	361.07	1900620.07	6270952.44
712	4" C, 45° BEND	359.78	1900673.57	6270908.58
718	4" PW, 90° BEND	359.78	1900659.33	6270908.90
719	6" FPW, 90° BEND	360.60	1900672.59	6270893.13
720	8"x6" FPW, TEE	362.66	1900591.39	6270972.93
721	8" FPW, 90° BEND ROLLED 11.25° D	362.65	1900609.81	6270991.67
722	8" FWP, 11.25° VERT BEND U	361.42	1900614.20	6270987.36
723	4" PW, 90° BEND	360.86	1900591.33	6270975.73
724	4" PW, TEE	360.86	1900604.81	6270989.45
726	4"x2" UWHP, TEE ROLLED 45° U	361.70	1900605.45	6270971.11
730	2" UWHP, 45° VERT BEND U	364.10	1900607.15	6270969.42
731	4"x4" UWHP, TEE ROLLED 11.25° U	361.69	1900606.85	6270972.54
732	4" UWHP, 90° BEND ROLLED 11.25° D	362.96	1900602.35	6270976.96
733	4" UWHP, TEE	362.96	1900616.36	6270991.21
735	4" CD, 90° BEND	363.00	1900571.24	6270972.31
740	4" CD, 45° BEND	363.10	1900582.66	6270983.93
741	4" CD, 45° BEND	363.71	1900591.10	6270984.01

- NOTE:**
- FOR SDR PIPING INFORMATION, SEE DWG CG-107.
 - NOT USED.
 - SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.



PK2-Y-137

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION

**YARD PIPING
ENLARGED PLAN**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 173 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	RCE#	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Andrea Demich</i>
		DATE
		1/15/21
		FIRM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
		40381-2173-D

CONSULTANT

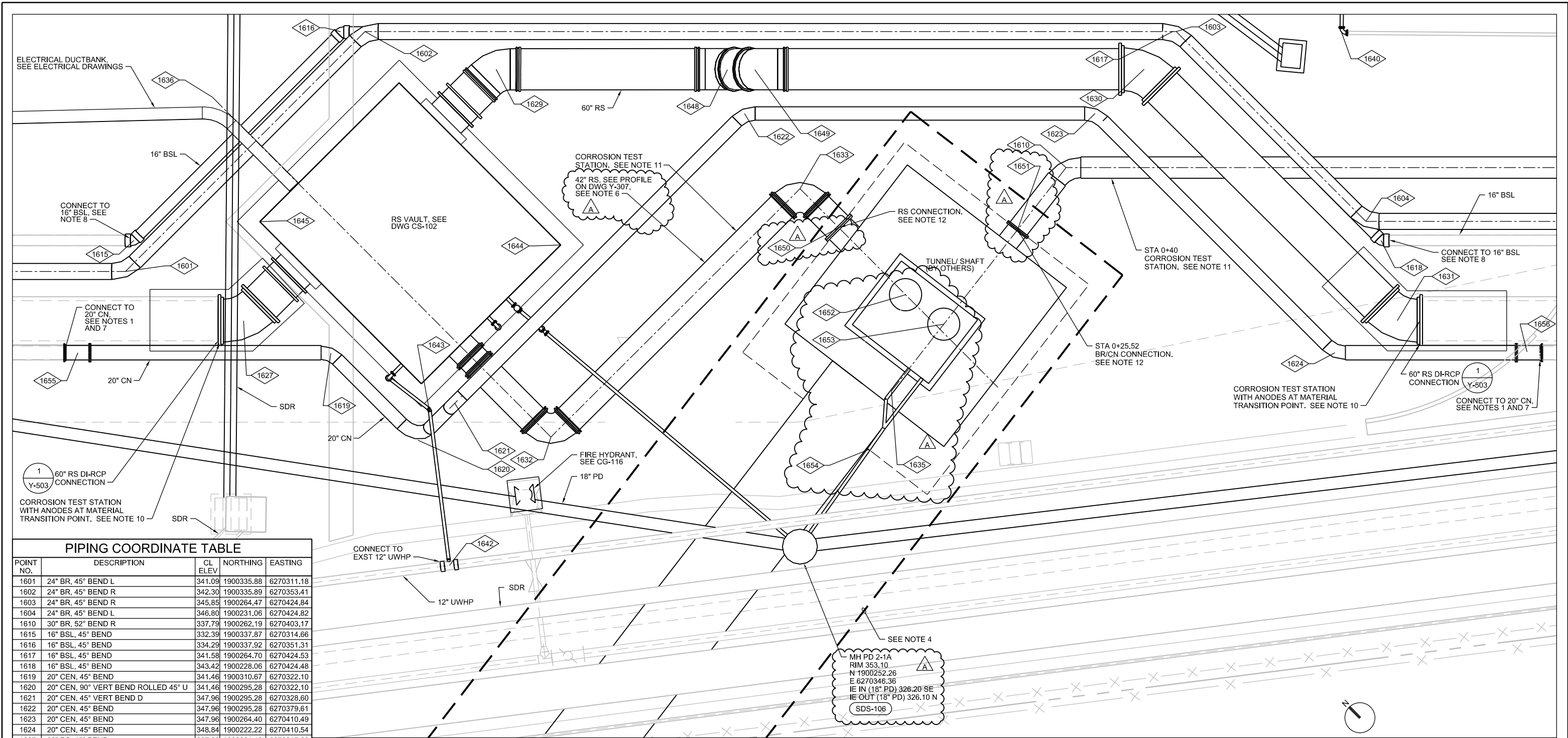
ch2m

WARNING

0 1

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DIGITALLY SIGNED: 01/05/2021



PIPING COORDINATE TABLE

POINT NO.	DESCRIPTION	CL ELEV.	NORTHING	EASTING
1601	24" BR, 45° BEND L	341.09	1900335.88	6270311.18
1602	24" BR, 45° BEND R	342.30	1900335.89	6270353.41
1603	24" BR, 45° BEND R	345.85	1900264.47	6270424.84
1604	24" BR, 45° BEND L	346.80	1900231.06	6270424.82
1610	30" BR, 52° BEND R	337.79	1900262.19	6270403.17
1615	16" BSL, 45° BEND	332.39	1900337.87	6270314.66
1616	16" BSL, 45° BEND	334.29	1900337.92	6270351.31
1617	16" BSL, 45° BEND	341.58	1900264.70	6270424.53
1618	16" BSL, 45° BEND	343.42	1900228.06	6270424.48
1619	20" CEN, 45° BEND	341.46	1900310.67	6270322.10
1620	20" CEN, 90° VERT BEND ROLLED 45° U	341.46	1900295.28	6270322.10
1621	20" CEN, 45° VERT BEND D	347.96	1900295.28	6270328.60
1622	20" CEN, 45° BEND	347.96	1900295.28	6270379.61
1623	20" CEN, 45° BEND	347.96	1900264.40	6270410.49
1624	20" CEN, 45° BEND	348.84	1900222.22	6270410.54
1627	60" RS, 45° BEND	337.36	1900321.13	6270317.26
1629	60" RS, 45° BEND	338.88	1900321.05	6270361.63
1630	60" RS, 45° BEND	342.84	1900263.97	6270418.71
1631	60" RS, 45° BEND	344.32	1900219.56	6270418.83
1632	42" RS, 90° BEND L	337.36	1900283.84	6270334.09
1633	42" RS, 90° BEND R	337.36	1900283.76	6270377.88
1635	30" BR, POB ALIGNMENT	N/A	1900257.89	6270368.11
1636	42" RS, POB ALIGNMENT	N/A	1900343.57	6270334.19
1640	2" PN, 90° BEND	358.09	1900248.39	6270439.29
1642	4"x12" UWHP TEE	345.87	1900281.46	6270313.84
1643	4" UWHP, 45° BEND	346.00	1900297.02	6270325.81
1644	RS VAULT CORNER	352.00	1900299.88	6270351.85
1645	RS VAULT CORNER	352.00	1900328.43	6270327.41
1648	60" RS, 45° VERT BEND U	337.36	1900301.38	6270381.30
1649	60" RS, 45° VERT BEND D	342.84	1900297.50	6270385.19
1650	42" RS CONNECTION *	337.36	1900276.92	6270377.86
1651	30" BR/CN CONNECTION *	337.80	1900261.00	6270393.44
1652	42" RS CL VERT PIPE IN SHAFT **	N/A	1900265.14	6270377.84
1653	30" BR/CN VERT PIPE IN SHAFT **	N/A	1900259.18	6270378.61
1654	4" D CONNECTION *	339.67	1900254.76	6270360.97
1655	20" CN CONNECTION	341.46	1900333.05	6270299.71
1656	20" CN CONNECTION	348.84	1900205.16	6270427.61

- NOTE:**
- COORDINATE SHUT DOWNS RUN RELOCATIONS WITH PLANT OPERATIONS AND THE MOPO PLAN. SEE SPECIFICATION 31.12.
 - PHASING AND COORDINATION REQUIREMENTS: CONTRACTOR SHALL RELOCATE PRESSURE AND GRAVITY PIPING, MANHOLES, AND OTHER CONFLICTING APPURTENANCES INCLUDING CONSTRUCTION OF THE RS VAULTS, OUT OF THE TUNNEL SHAFT WORK ZONE, (BY OTHERS) TO ALLOW CONSTRUCTION OF THE TUNNEL. SEE SPECIFICATION 01.31.13 PROJECT COORDINATION.
 - CONNECTION POINTS ARE THE LIMITS BETWEEN THIS CONTRACT AND WORK BY OTHERS.
 - CONSTRUCTION OF THE TUNNEL AND TUNNEL SHAFT IS NIC AND A PART OF THE MORENA PUMP STATION PROJECT AND WILL BE CONSTRUCTED PRIOR TO COMMENCING FACILITY 16 IMPROVEMENTS AFTER UTILITY RELOCATIONS AND RS VAULT CONSTRUCTION IS COMPLETE.
 - FOR SURF PIPING INFORMATION, SEE DWG CG-10.
 - FOR ALL JOINTS ON 42" RS, PROVIDE SPECIAL THRUST TIE FOR STEEL PIPE. 4005-540A
 - CONNECT TO EXISTING DUCTILE IRON PIPE WITH RESTRAINED MJ FITTING. PROVIDE CORROSION PROTECTION AS SPECIFIED.
 - CONNECT TO EXISTING PVC PIPE WITH RESTRAINED MJ FITTING OR RESTRAINED COUPLING. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE CORROSION PROTECTION AS SPECIFIED.

- SHORING LOCATION SHOWN SCHEMATICALLY ONLY. EXCAVATION SUPPORT PLAN REQUIRED PER SPECIFICATION 31.41.00. FINAL LOCATIONS, EXTENT OF, AND DESIGN OF SHORING TO BE DETERMINED BY THE CONTRACTOR.
- INSTALL 2-WIRE TEST STATION WITH 2-ANODES PER DETAIL 1 ON SHEET CP-101.
- INSTALL 2-WIRE TEST STATION PER DETAIL 4 ON SHEET CP-101.
- INSTALL BURIED FLANGE ISOLATION KIT AT CONNECTION POINT PER DETAIL 2 ON SHEET CP-101.
- COORDINATE POINTS ARE FOR REFERENCE AND SHALL BE FIELD VERIFIED AT THE COMPLETION OF WORK BY OTHERS BEFORE MAKING THE FINAL CONNECTIONS OF RS AND BR/CN.
- SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.

WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

ch2m

DIGITALLY SIGNED: 01/05/2021

Scale In Feet: 0 6 12 18

PK2-Y-139

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

YARD PIPING ENLARGED PLAN

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 175 OF 1169 SHEETS

APPROVED: *John Deitch*
FOR CITY ENGINEER
DATE: 12/03/2020
PRINT DCE NAME: Andrea Demich
RCE#: C70321

DATE STARTED: 1/15/21
DATE COMPLETED: _____

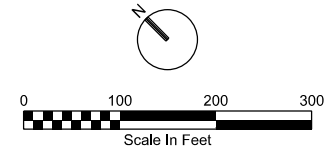
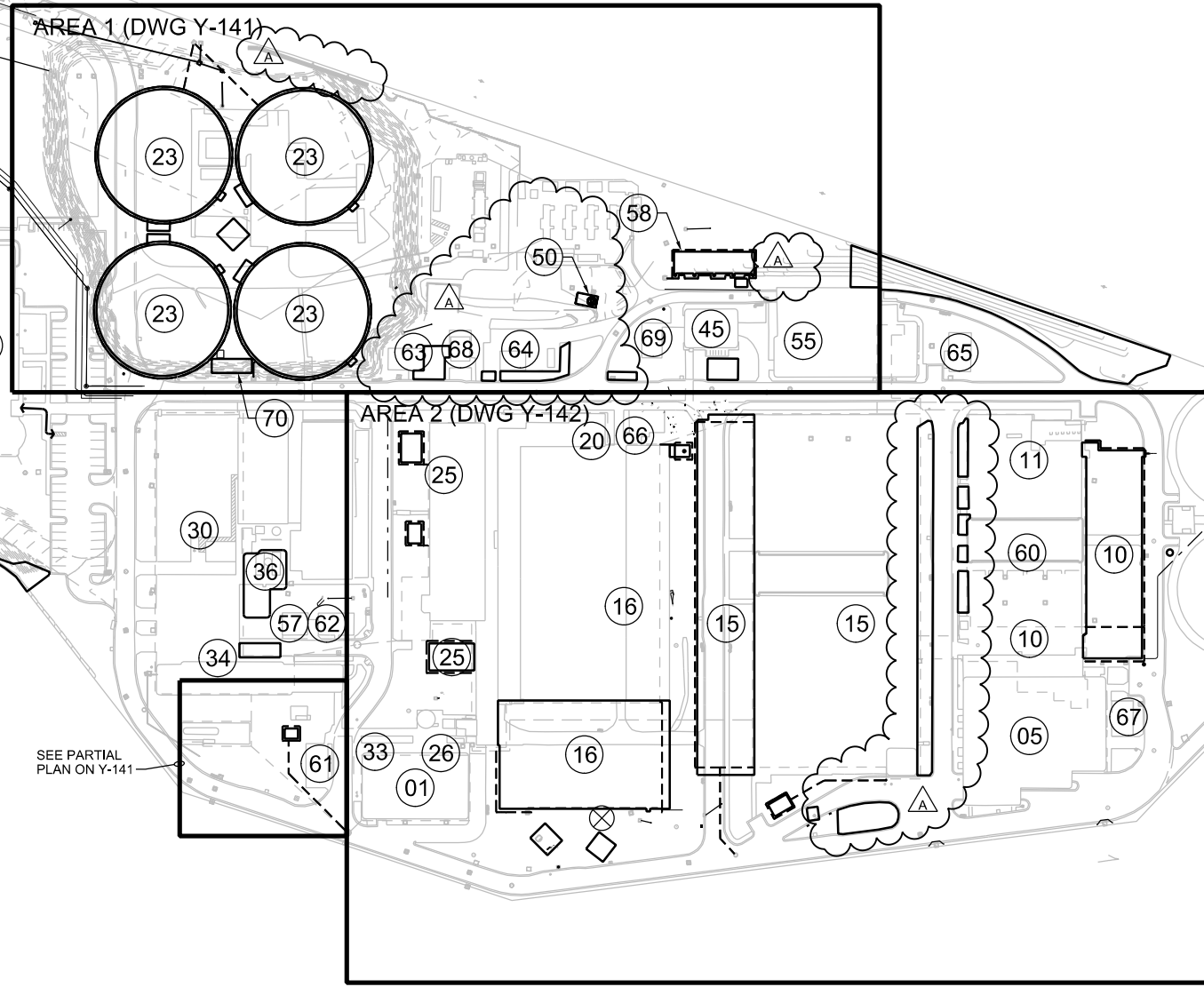
CONTRACTOR: _____
INSPECTOR: _____

PROJECT MANAGER: **MONIKA SMOCZYNSKI**
PROJECT ENGINEER: **THEN-LONG TRAN**
260-1709
1900-6269
40381-2175-D

FACILITY LEGEND:

- 01 INFLUENT PUMP STATION
- 05 HEADWORKS
- 10 PRIMARY SEDIMENTATION TANKS
- 11 INTERMEDIATE PUMP STATION RAS/ PEF MIXERS
- 12 FLOW EQUALIZATION BASINS
- 15 FIRST STAGE BIOREACTOR BASINS
- 16 SECOND STAGE BIOREACTOR BASINS
- 20 BIOREACTOR/ FILTER SUPPORT FACILITY
- 23 SECONDARY CLARIFIERS
- 25 TERTIARY FILTERS
- 26 WASTE BACKWASH TANK
- 30 CHLORINE CONTACT BASIN
- 33 EFFLUENT DROP STRUCTURE
- 34 EFFLUENT PUMP STATION
- 36 NCPWF INFLUENT PUMP STATION
- 45 BLENDED SLUDGE PUMP STATION
- 50 STORMWATER PUMP STATION
- 51 OPERATIONS BUILDING
- 55 CHEMICAL BUILDING
- 56 NOT USED
- 57 DISINFECTION FEED FACILITY
- 58 CARBON CHEMICAL FACILITY
- 60 ODOR CONTROL FACILITY
- 61 - 67 ELECTRICAL SUBSTATIONS
- 64B NOT USED
- 68 ELECTRICAL MAIN PLANT SWITCHGEAR
- 69 ELECTRICAL SWITCHGEAR SUBSTATION
- 70 SECONDARY CLARIFIER ELECTRICAL BUILDING
- 72 ELECTRICAL SWITCHGEAR

SEE PARTIAL PLAN ON Y-141



PK2-Y-140

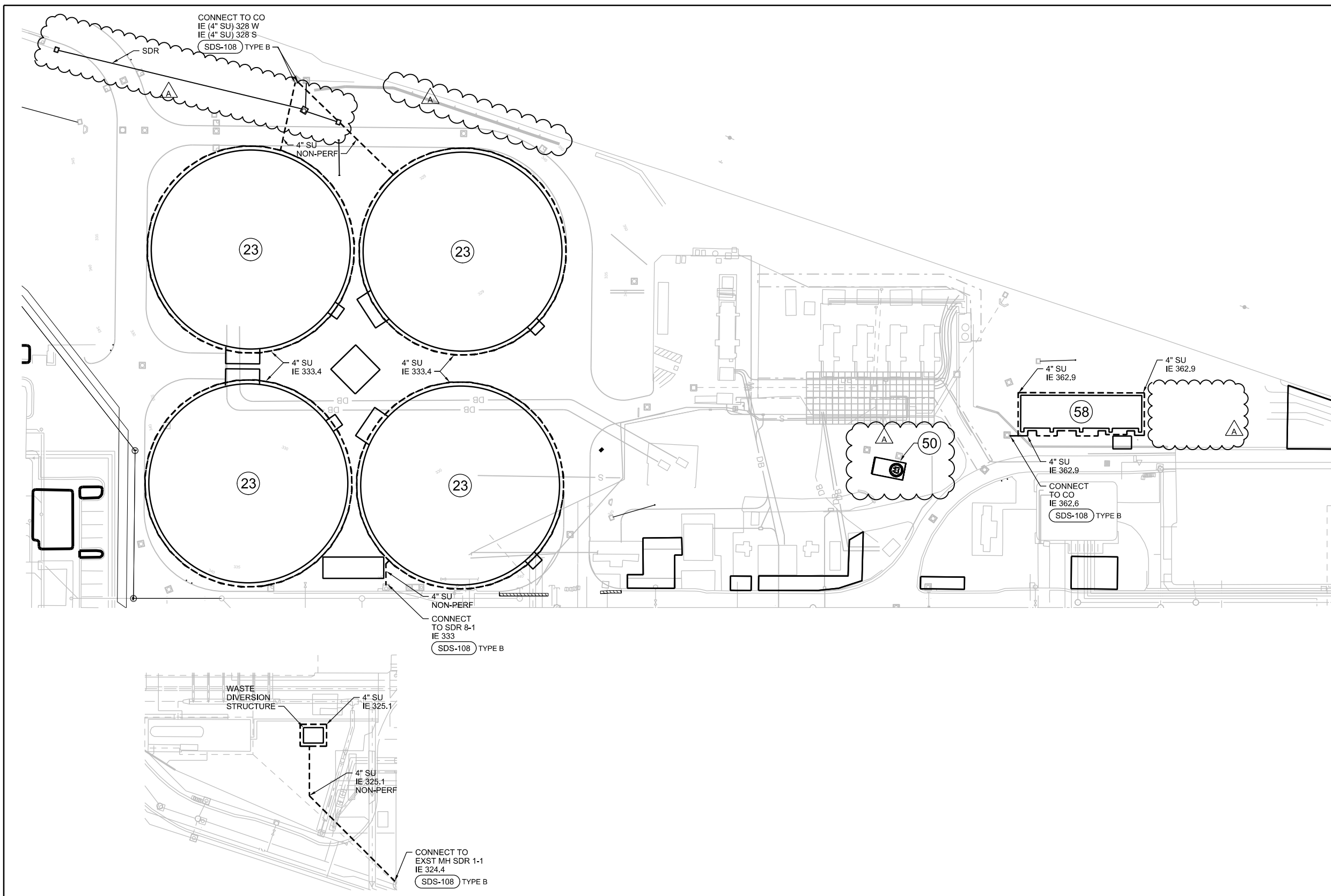
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
**YARD PIPING
PERIMETER DRAIN
OVERALL PLAN**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 176 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020	SUBMITTED BY MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME Andrea Demich	RCE# C70321	CHECKED BY THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	APPROVED [Signature]
		DATE 1/15/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-2176-D
INSPECTOR	DATE COMPLETED	

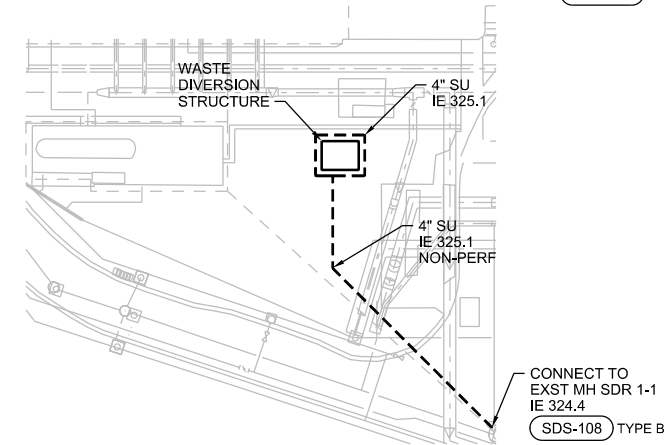
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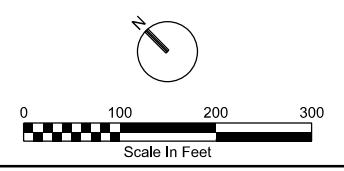
DIGITALLY SIGNED: 01/05/2021



- NOTES:**
1. ALL PERIMETER DRAIN ELEVATION ARE INVERT ELEVATIONS (IE).
 2. ALL PERIMETER DRAIN PIPE THAT IS ADJACENT TO STRUCTURE SHALL BE PERFORATED. ALL OTHER CONNECTING PERIMETER DRAIN PIPE SHALL BE NON-PERFORATED.
 3. NOT USED.
 4. FOR TYPICAL PERIMETER DRAIN DETAIL, SEE
 5. FOR CONSTRUCTION TO EXISTING 4" SU, CONNECT AS SPECIFIED.



PARTIAL PLAN



PK2-Y-141

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 2 – NORTH CITY WRP EXPANSION
**YARD PIPING
 PERIMETER DRAIN
 PLAN - AREA 1**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 177 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: FOR CITY ENGINEER DATE: 12/03/2020 PRINT DCE NAME: Andrea Demich RCE#	C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
CH		DATE
ADDENDUM A	CH	1/15/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
DATE STARTED		40381-2177-D
DATE COMPLETED		

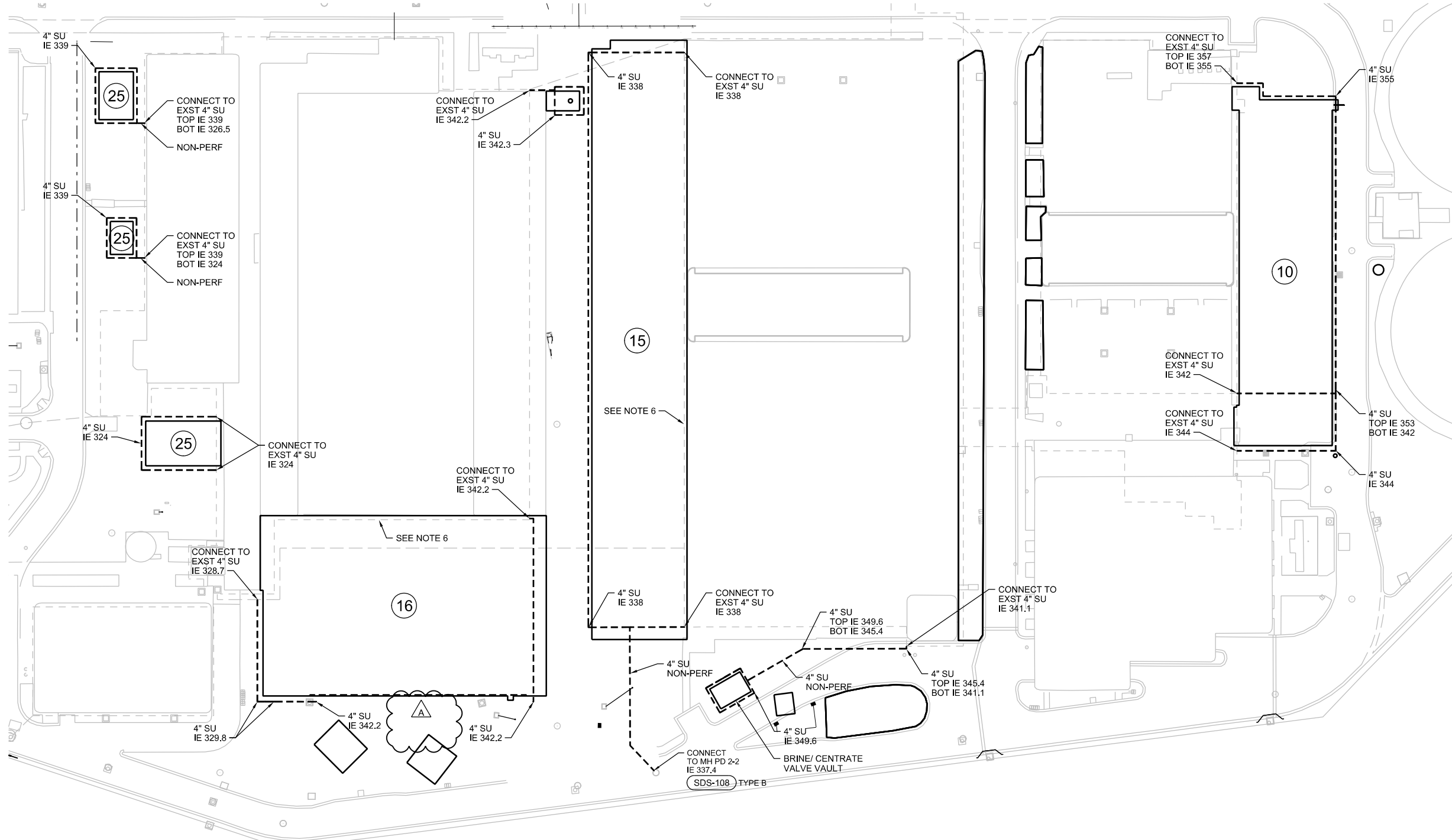
CONSULTANT



CONTRACTOR INSPECTOR

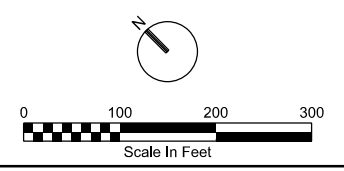
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WARNING

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- NOTES:**
1. ALL PERIMETER DRAIN ELEVATION ARE INVERT ELEVATIONS (IE).
 2. ALL PERIMETER DRAIN PIPE THAT IS ADJACENT TO STRUCTURE SHALL BE PERFORATED. ALL OTHER CONNECTING PERIMETER DRAIN PIPE SHALL BE NON-PERFORATED.
 3. TWO INVERT ELEVATIONS SHOWN AT THE SAME LOCATION INDICATE A VERTICAL RISER SECTION IS REQUIRED TO CONNECT ADJACENT PIPE SEGMENTS. SEE .
 4. FOR TYPICAL PERIMETER DRAIN DETAIL, SEE .
 5. FOR CONSTRUCTION TO EXISTING 4" SU, CONNECT AS SPECIFIED.
 6. DEMOLISH EXISTING PERIMETER DRAIN BETWEEN EXISTING FACILITY AND EXPANSION FACILITY.



PK2-Y-142

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 2 - NORTH CITY WRP EXPANSION
**YARD PIPING
 PERIMETER DRAIN
 PLAN - AREA 2**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 178 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	RCE#	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED 	DATE 1/15/21	FIRM 260-1709
		CCS27 COORDINATE 1900-6269
		CCS83 COORDINATE
CONTRACTOR INSPECTOR	DATE STARTED DATE COMPLETED	40381-2178-D

CONSULTANT

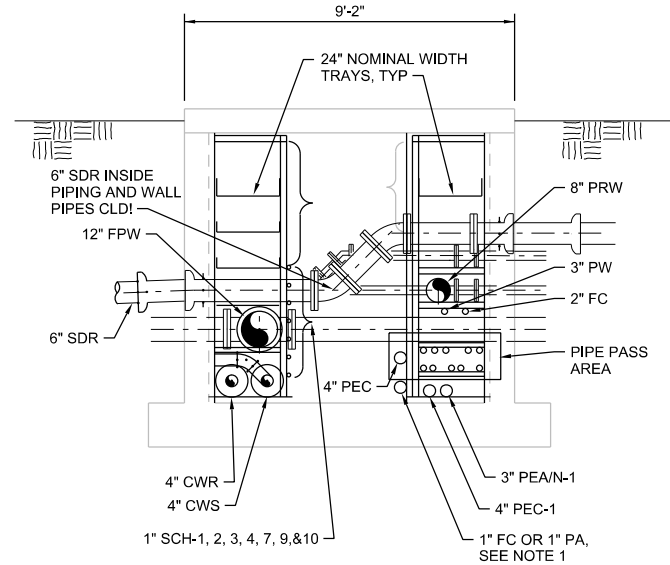
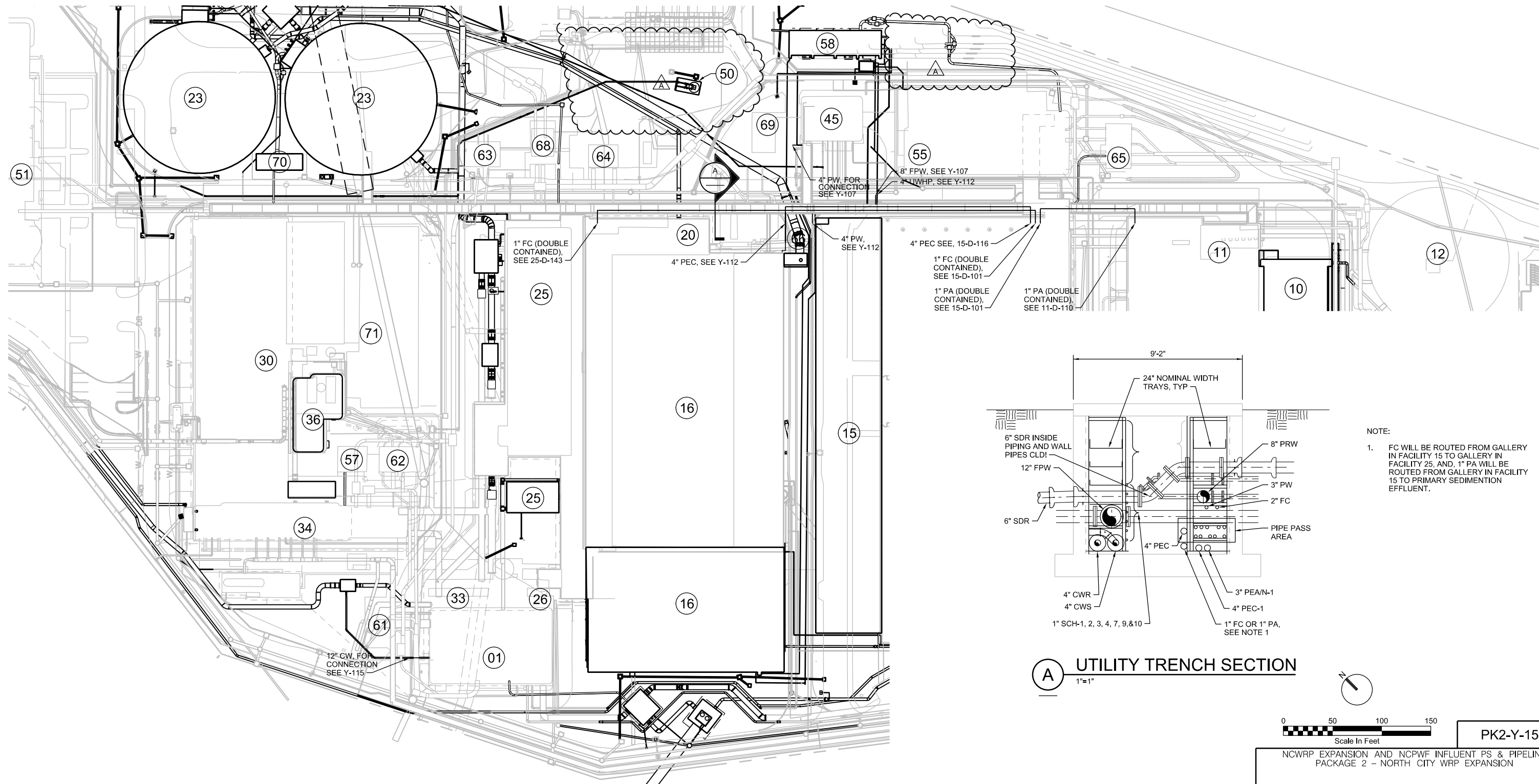


WARNING

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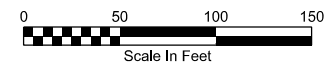
DIGITALLY SIGNED: 01/05/2021





NOTE:
 1. FC WILL BE ROUTED FROM GALLERY IN FACILITY 15 TO GALLERY IN FACILITY 25, AND, 1\"/>

A UTILITY TRENCH SECTION
 1"=1"



PK2-Y-150

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

**YARD PIPING
 UTILITY TRENCH**

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC UTILITIES DEPARTMENT
 SHEET 179 OF 1169 SHEETS

B-16149, S-17012
 WBS B-15142

APPROVED: <i>Andrea Demich</i>	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI
FOR CITY ENGINEER	DATE: C70321	PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	RCE#	CHECKED BY: THIEN-LONG TRAN
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Andrea Demich</i>
		DATE
		1/15/21
		FIRM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
		40381-2179-D

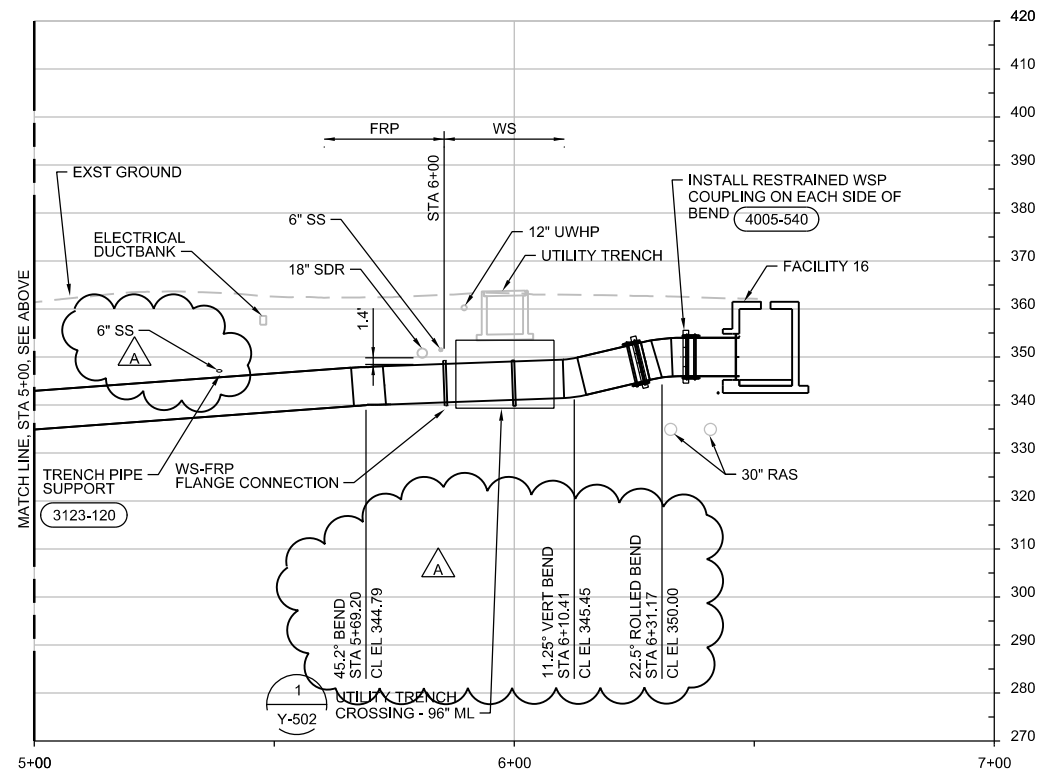
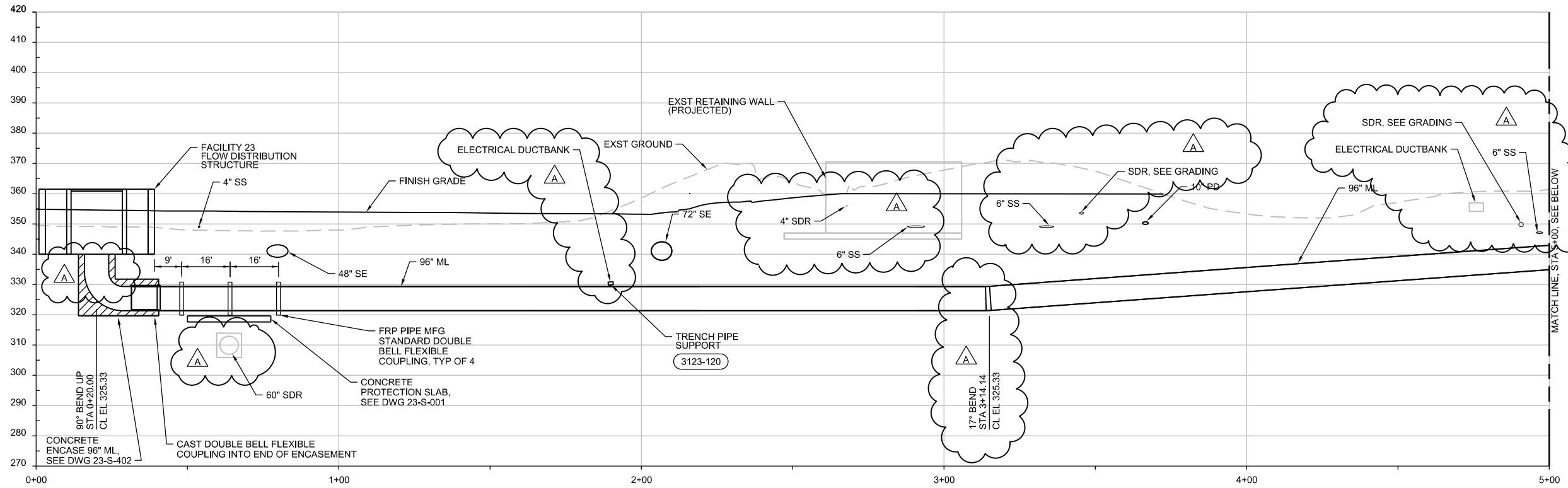


DIGITALLY SIGNED: 01/05/2021

CONTRACTOR _____ DATE STARTED _____
 INSPECTOR _____ DATE COMPLETED _____

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE





NOTES:

- CONTRACTOR TO PROVIDE A LARGE DIAMETER PIPE INSTALLATION PLAN, SEE SPECIFICATION SECTION 33 05 01.

A 96" ML PROFILE
 H: 1"=20'-0"
 V: 1"=20'-0"

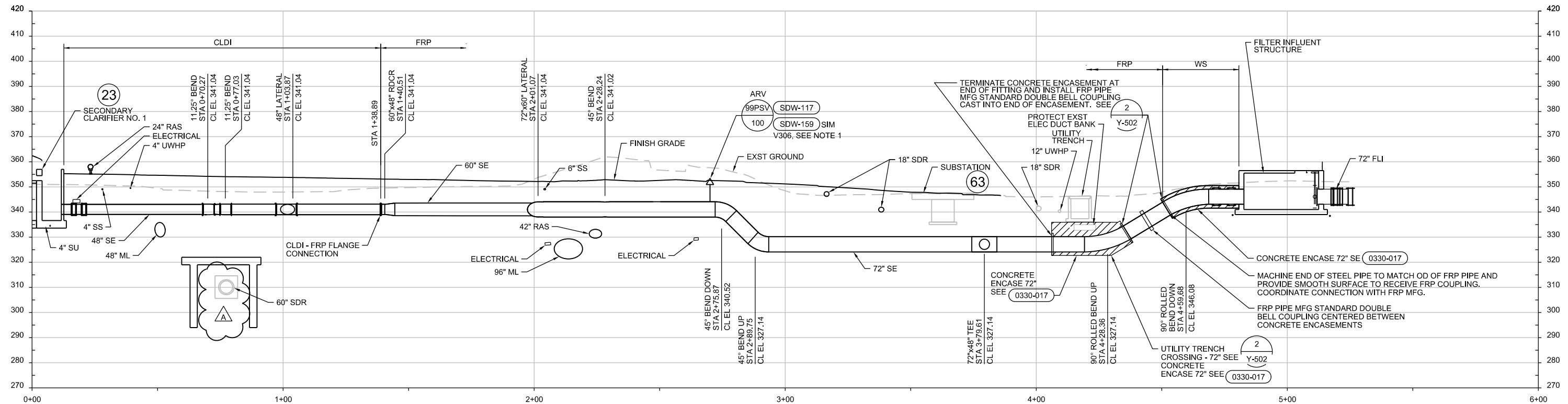
WARNING
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

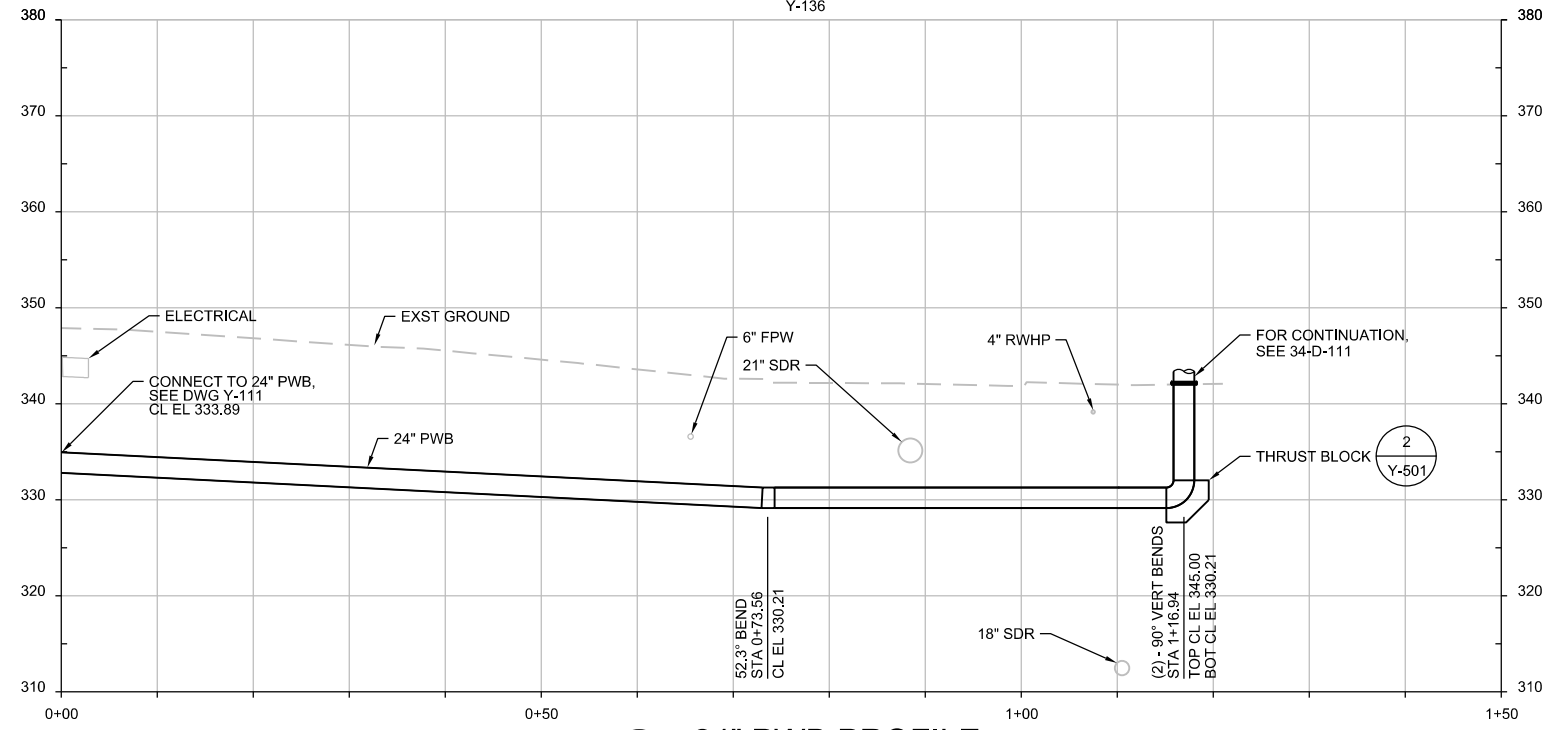


DIGITALLY SIGNED: 01/05/2021

PK2-Y-301				
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION				
CIVIL				
YARD PIPING PROFILE				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 180 OF 1169 SHEETS	B-16149, S-17012 WBS B-15142			
APPROVED: <i>John Demich</i> FOR CITY ENGINEER DATE: 12/03/2020 PRINT DCE NAME: Andrea Demich RCE#	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER			
DESCRIPTION	BY	APPROVED	DATE	FILM
Addendum A	CH	<i>John Demich</i>	1/15/21	
				260-1709
				1900-6269
				40381-2180-D
CONTRACTOR		DATE STARTED		DATE COMPLETED
INSPECTOR				



A 48" AND 72" SE PROFILE
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-106
 Y-111
 Y-112
 Y-135
 Y-136



B 24" PWB PROFILE
 H: 1"=10'-0"
 V: 1"=10'-0"
 Y-111
 Y-115

- NOTES:**
- REPLACE ALL COPPER AND BRONZE PIPING COMPONENTS SHOWN IN DETAIL SDW-159 WITH EQUIVALENT STAINLESS STEEL COMPONENTS SUCH THAT ALL SURFACES IN CONTACT WITH LIQUID FROM THE PIPE ARE STAINLESS STEEL.
 - CONTRACTOR TO PROVIDE A LARGE DIAMETER PIPE INSTALLATION PLAN FOR 48" AND 72" SE. SEE SPECIFICATION SECTION 33 05 01.

WARNING
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

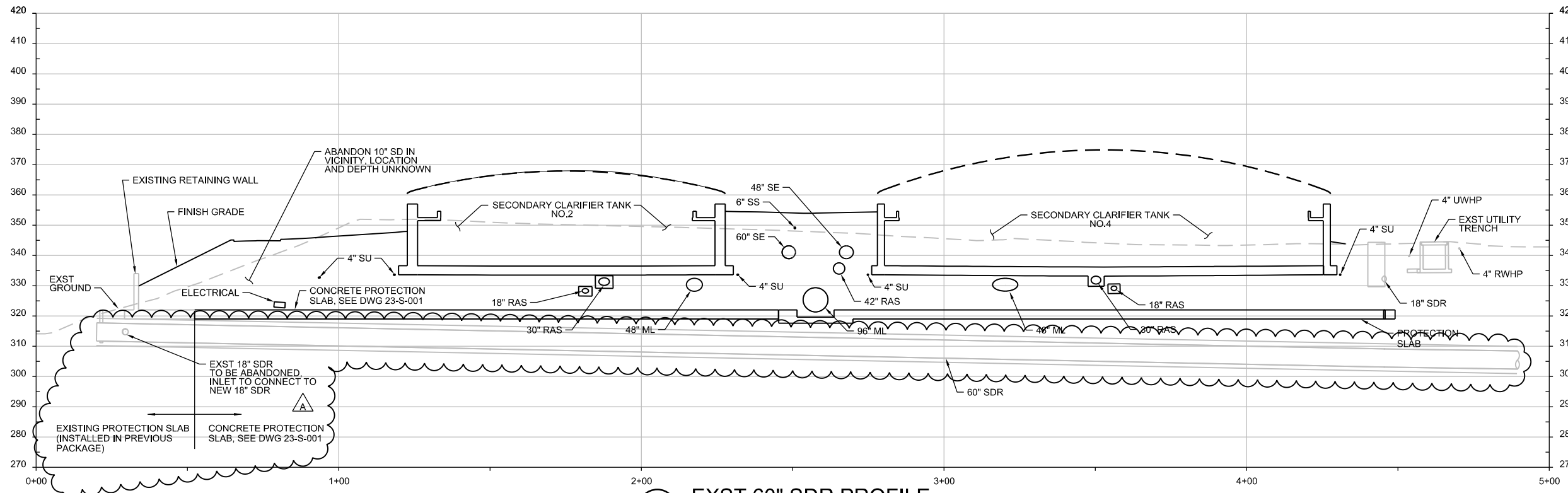
CONSULTANT



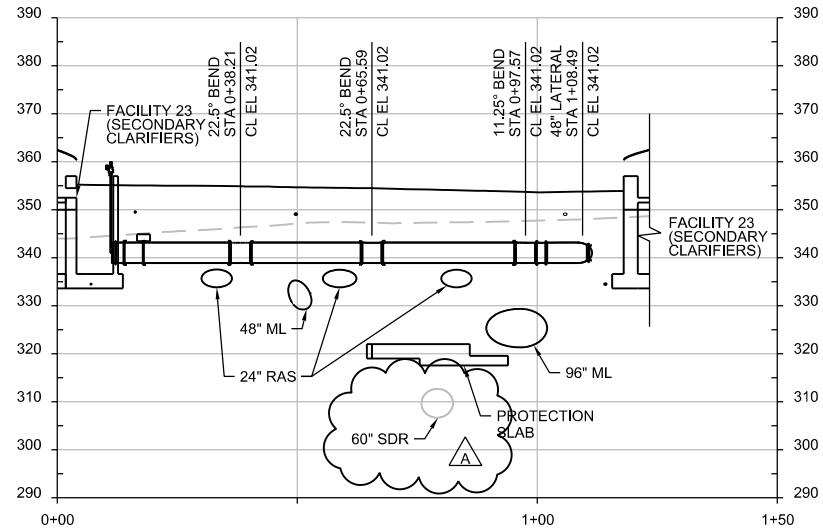
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 182 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrew Demich</i> FOR CITY ENGINEER DATE: 12/03/2020 PRINT DCE NAME: Andrew Demich RCE# C70321	DATE: 12/03/2020 DATE: 1/15/21	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER 260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
DESCRIPTION	BY	APPROVED
Addendum A	CH	<i>Andrew Demich</i>
DATE STARTED		
DATE COMPLETED		

PK2-Y-303

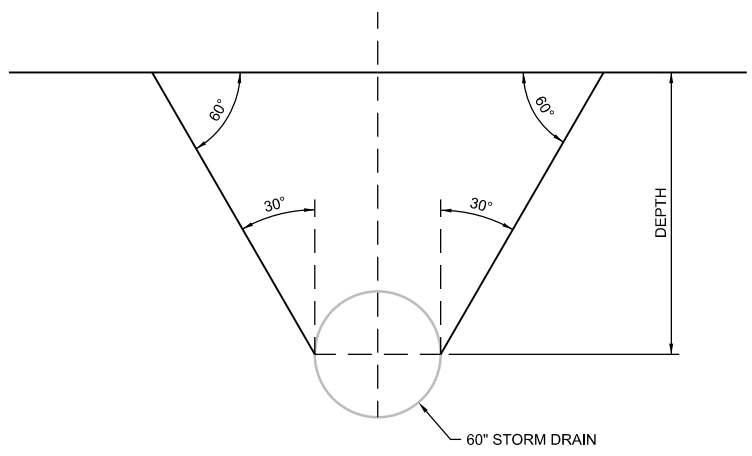
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
YARD PIPING PROFILE



A EXST 60" SDR PROFILE
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-106
 Y-111
 Y-102
 Y-136



B 48" SE PROFILE
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-136



NOTE:
 1. INFLUENCE AREA = AREA AT SURFACE FROM OUTSIDE EXTERIOR EDGE AT SPRINGLINE TO THE 60" STORM DRAIN, DRAW A LINE UPWARD AND OUTWARD AT 30° ANGLE FROM VERTICAL.

1 HEAVY EQUIPMENT RESTRICTED AREA
 NTS
 Y-106

NOTE:
 1. CONTRACTOR TO PROVIDE A LARGE DIAMETER PIPE INSTALLATION PLAN FOR 48" SE, SEE SPECIFICATION SECTION 33 05 01.

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

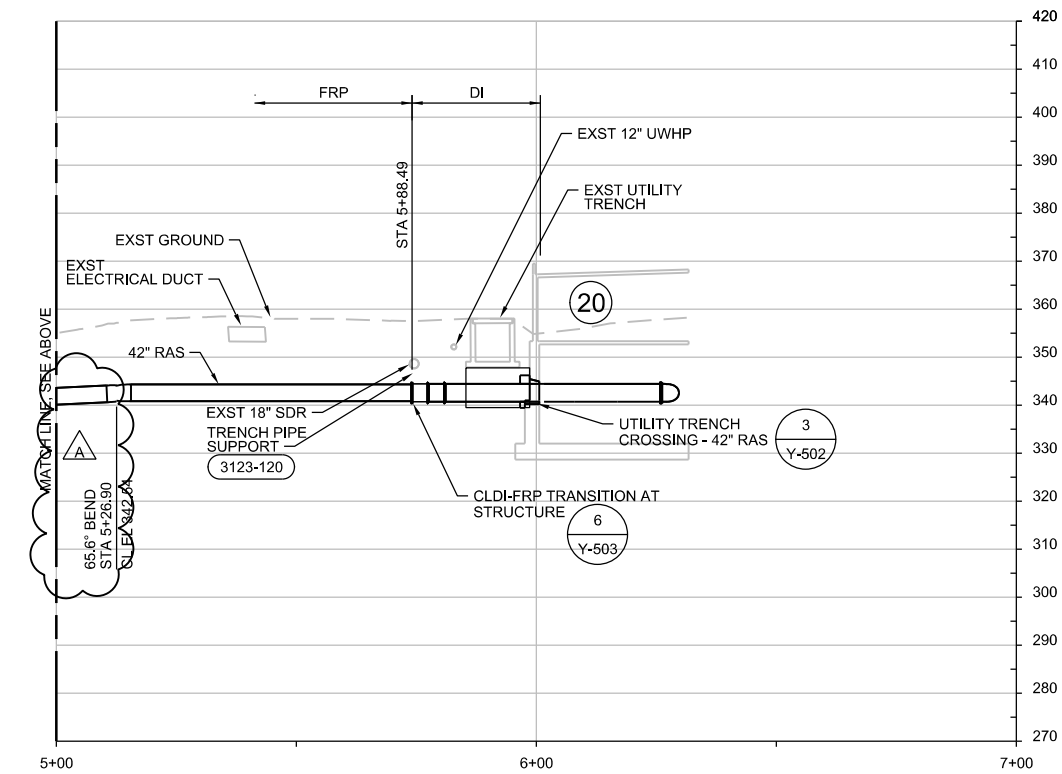
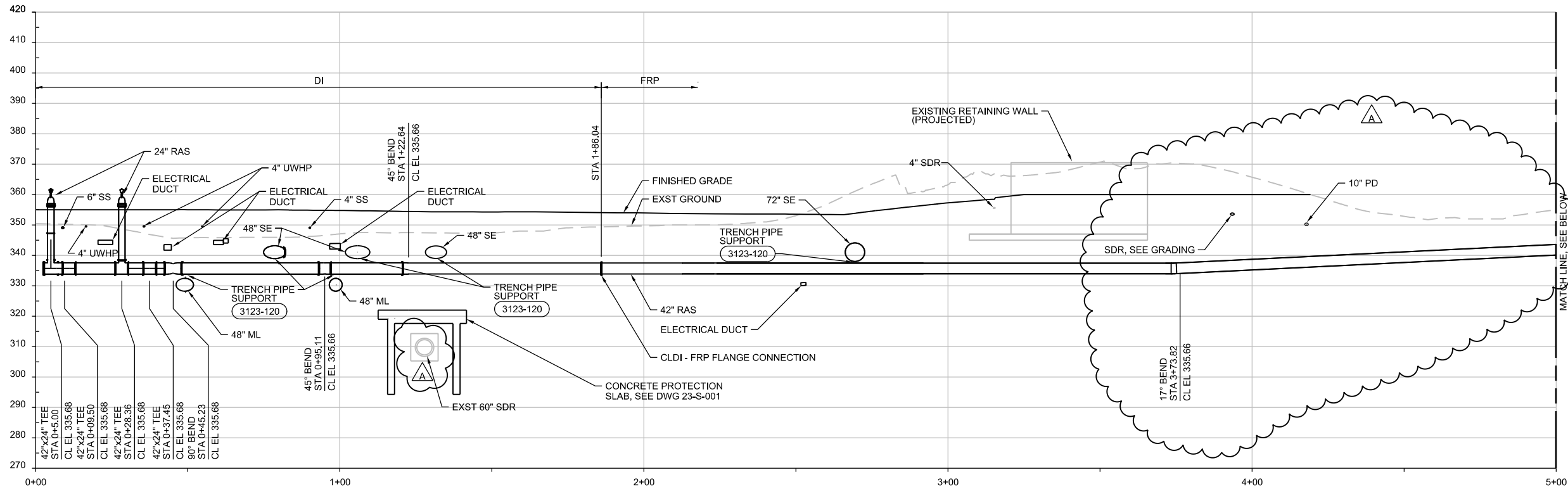
CONSULTANT



DIGITALLY SIGNED: 01/05/2021

CONTRACTOR _____ DATE STARTED _____
 INSPECTOR _____ DATE COMPLETED _____

PK2-Y-305	
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION CIVIL YARD PIPING PROFILE	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 184 OF 1169 SHEETS	B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER DATE 12/03/2020 PRINT DCE NAME: Andrea Demich RCE# C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY
ADDENDUM A	CH
APPROVED	DATE
<i>Andrea Demich</i>	1/15/21
DATE STARTED	DATE COMPLETED
	40381-2184-D



NOTE:
 1. CONTRACTOR TO PROVIDE A LARGE DIAMETER PIPE INSTALLATION PLAN, SEE SPECIFICATION SECTION 33 05 01.

A 42" RAS PROFILE
 H: 1"=20'-0"
 V: 1"=20'-0"

- Y-106
- Y-107
- Y-112
- Y-136

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

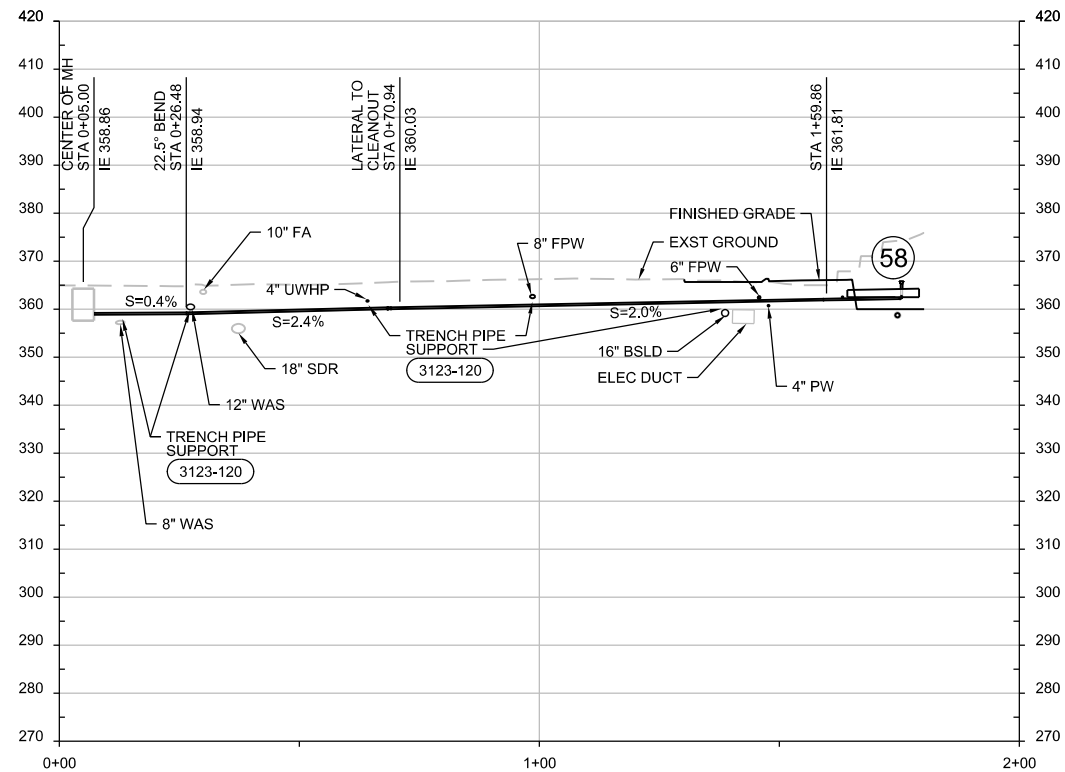
CONSULTANT



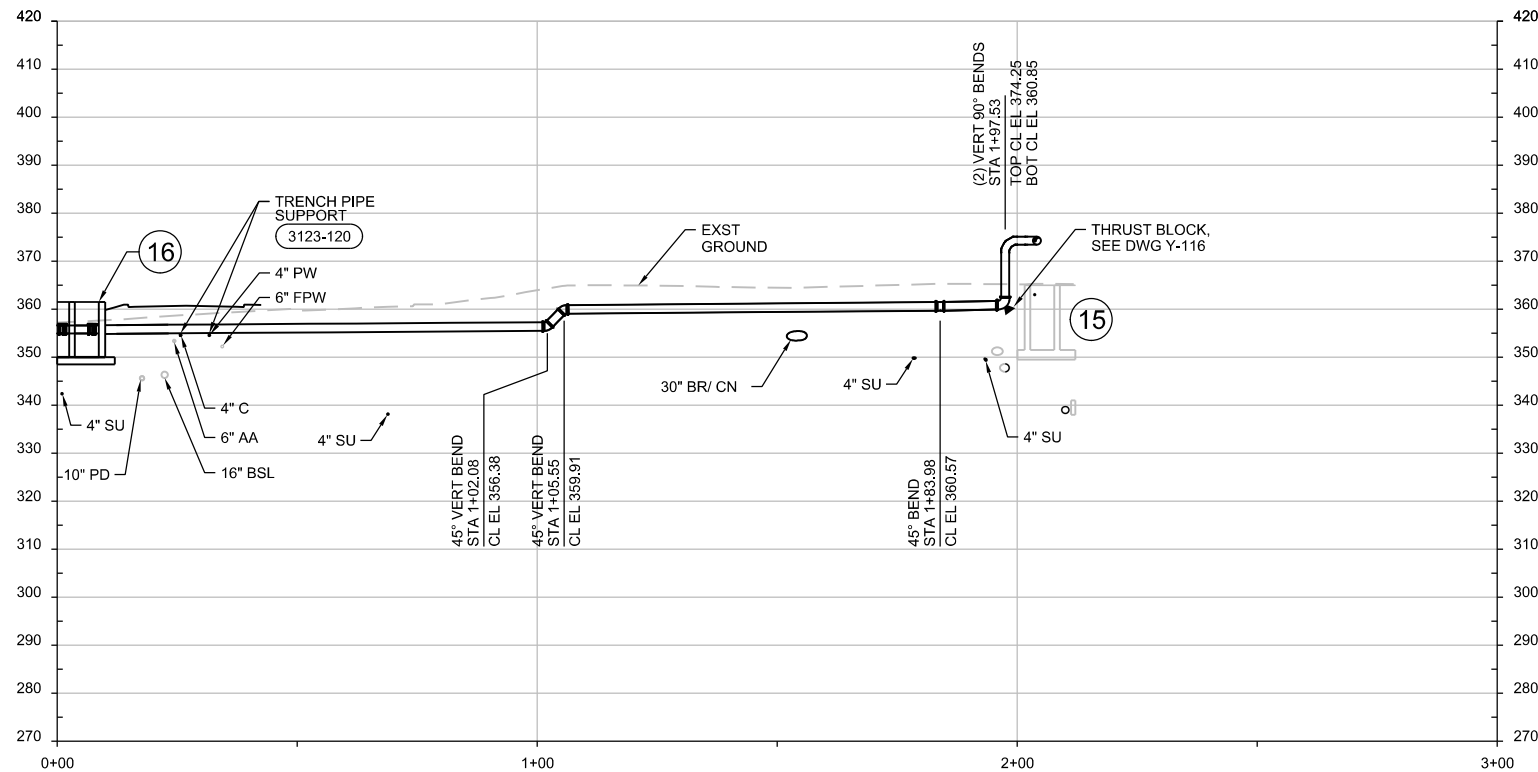
DIGITALLY SIGNED: 01/05/2021

CONTRACTOR	DATE STARTED	INSPECTOR	DATE COMPLETED
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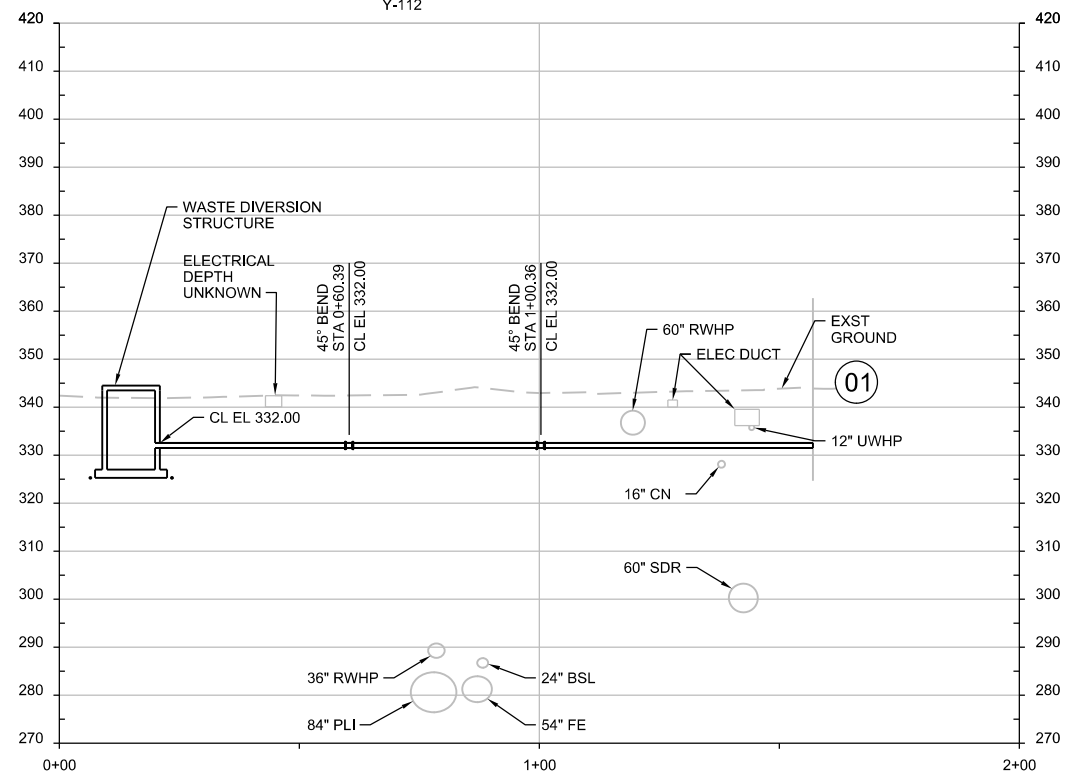
PK2-Y-306				
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION CIVIL YARD PIPING PROFILE				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 185 OF 1169 SHEETS	B-16149, S-17012 WBS B-15142			
APPROVED: <i>John Demich</i> FOR CITY ENGINEER DATE: 12/03/2020 PRINT DCE NAME: Andrea Demich RCE#	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER 260-1709 CCS27 COORDINATE: 1900-6269 CCS83 COORDINATE:			
DESCRIPTION	BY	APPROVED	DATE	FIRM
Addendum A	CH	<i>John Demich</i>	1/15/21	
DATE STARTED				40381-2185-D
DATE COMPLETED				



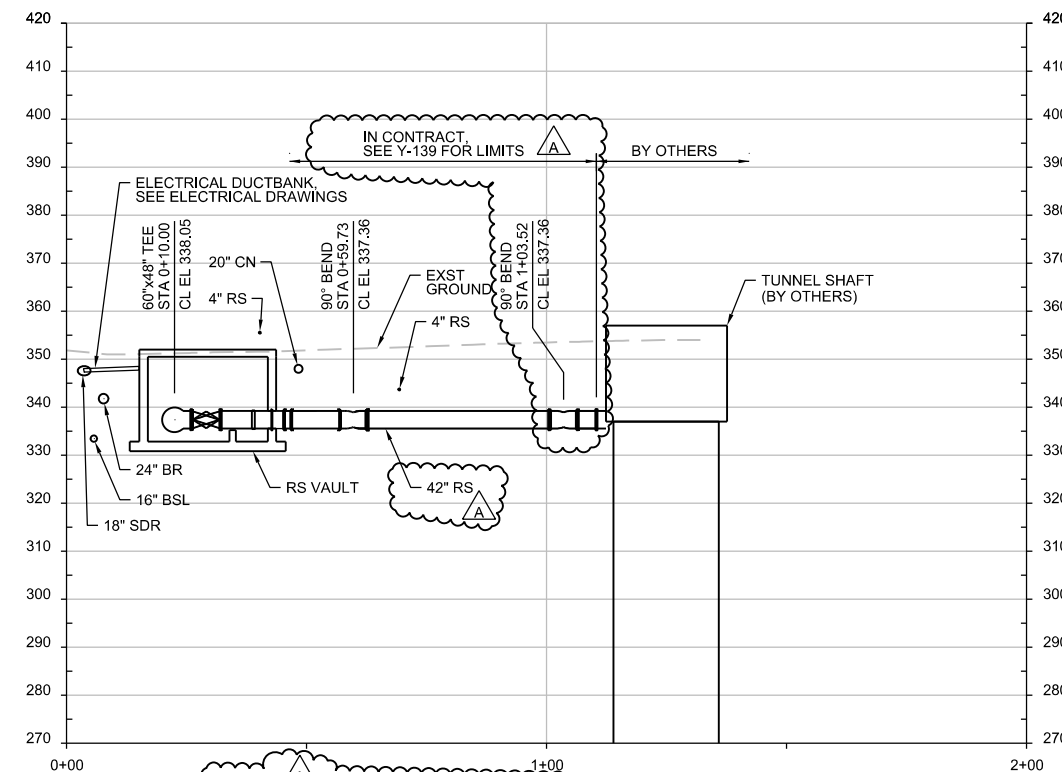
A 4" PD PROFILE
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-107
 Y-112



C 20" A PROFILE
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-116



B 12" CW PROFILE
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-115



D 42" RS PROFILE
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-116

NOTE:
 1. CONTRACTOR TO PROVIDE A LARGE DIAMETER PIPE INSTALLATION PLAN FOR 42" RS. SEE SPECIFICATION SECTION 33 05 01.

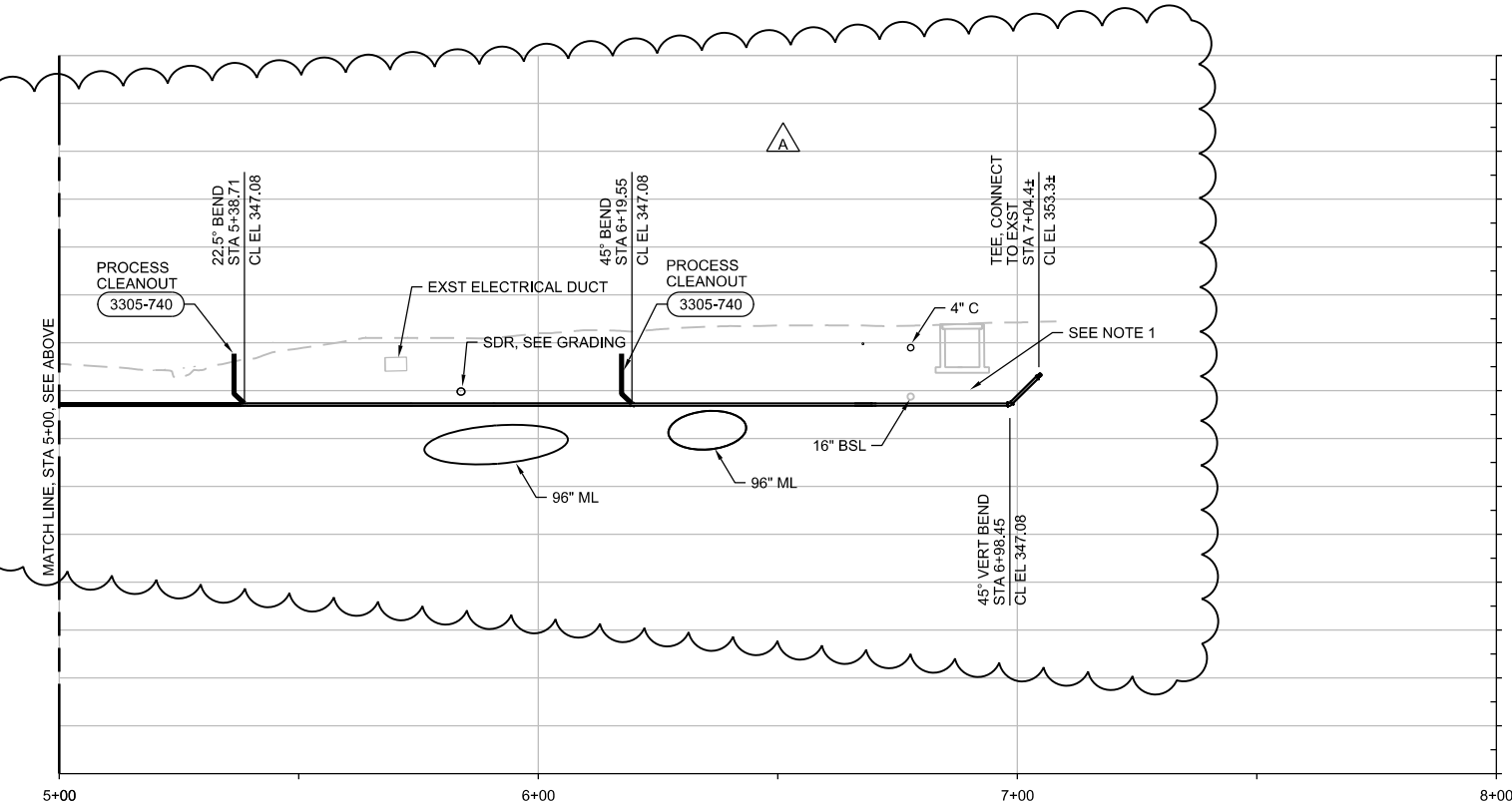
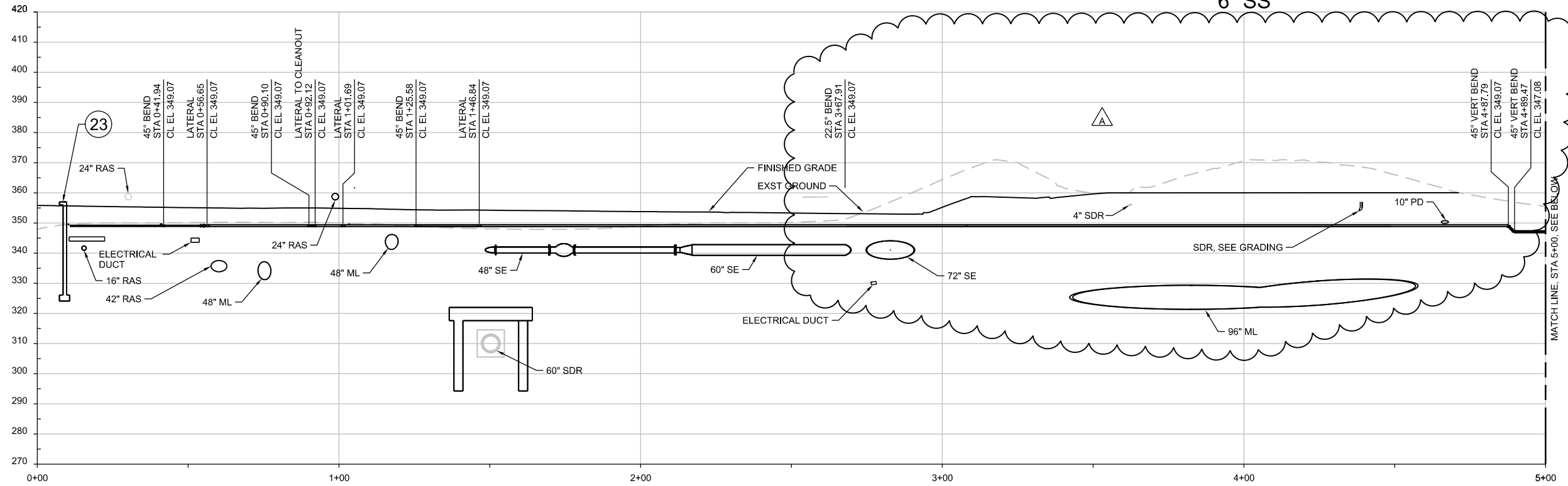
PK2-Y-307

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 186 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
CIVIL		
YARD PIPING PROFILE		
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER	DATE: 12/03/2020 C79321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	RCE#	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	APPROVED <i>Andrea Demich</i>
		DATE 1/15/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
		40381-2186-D

WARNING
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



DIGITALLY SIGNED: 01/05/2021



NOTE:
 1. EMBED AND BACKFILL 6" SS UNDER UTILITY TRENCH WITH CLSM.

A 6" SS PROFILE
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-107
 Y-112
 Y-106
 Y-136

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

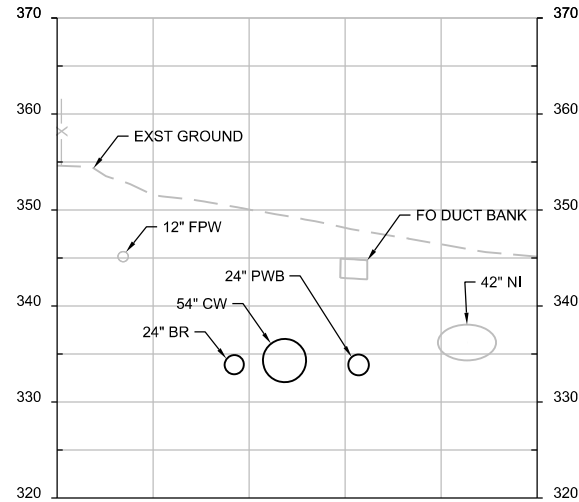


DIGITALLY SIGNED: 01/05/2021
 CONTRACTOR _____
 INSPECTOR _____

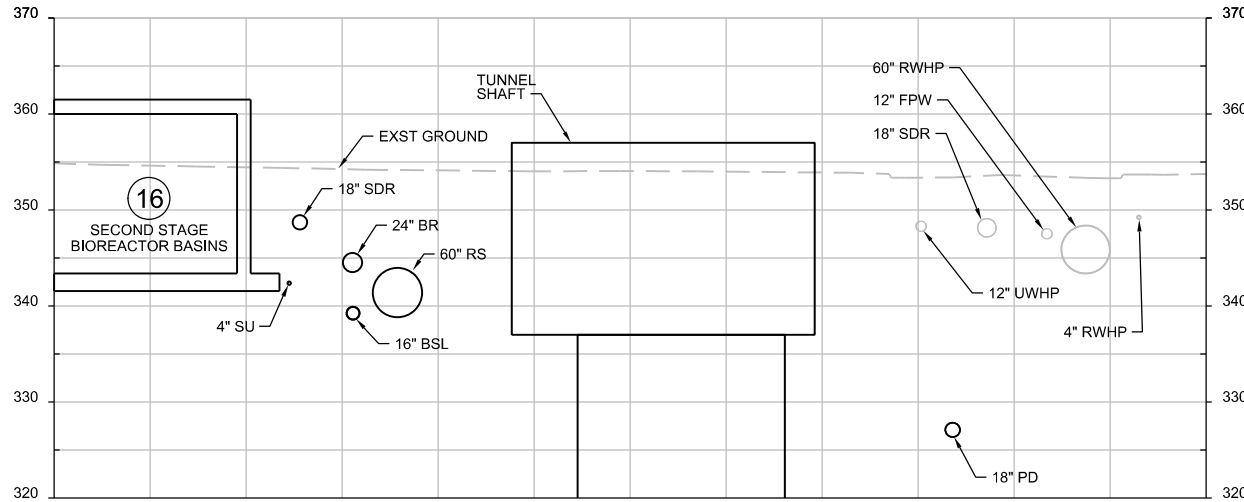
PK2-Y-308

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
YARD PIPING PROFILE

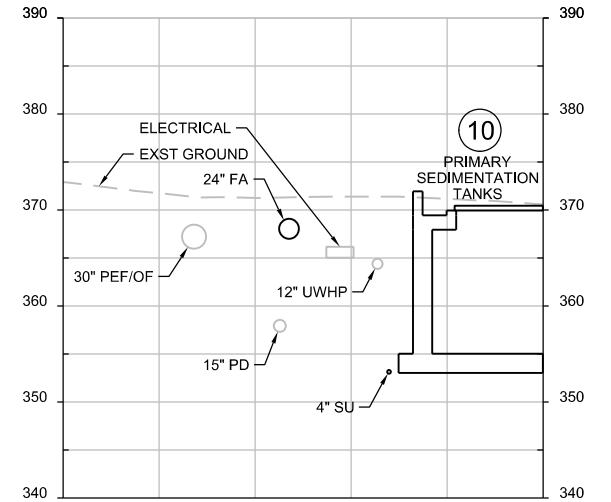
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 187 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142	
APPROVED: <i>John Demich</i>	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER	
FOR CITY ENGINEER: Andrea Demich	DATE: 07/03/21	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER	
PRINT DCE NAME: _____	RCE#: _____	PROJECT: 260-1709	
DESCRIPTION	BY	APPROVED	DATE FILM
△ Addendum A	CH	<i>John Demich</i>	1/15/21
DATE STARTED _____		DATE COMPLETED _____	
		40381-2187-D	



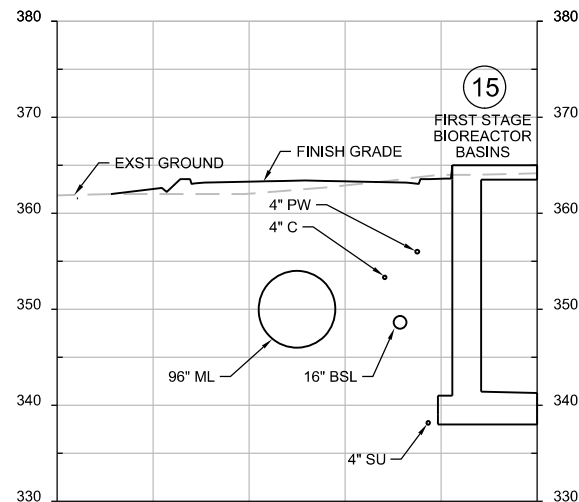
A SECTION
1"=10"
Y-111



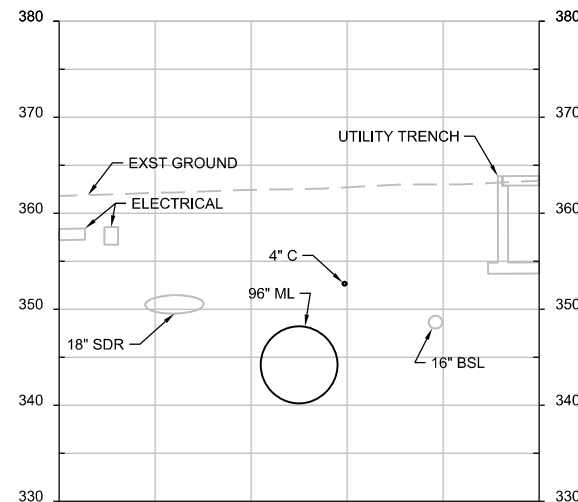
C SECTION
1"=10"
Y-116



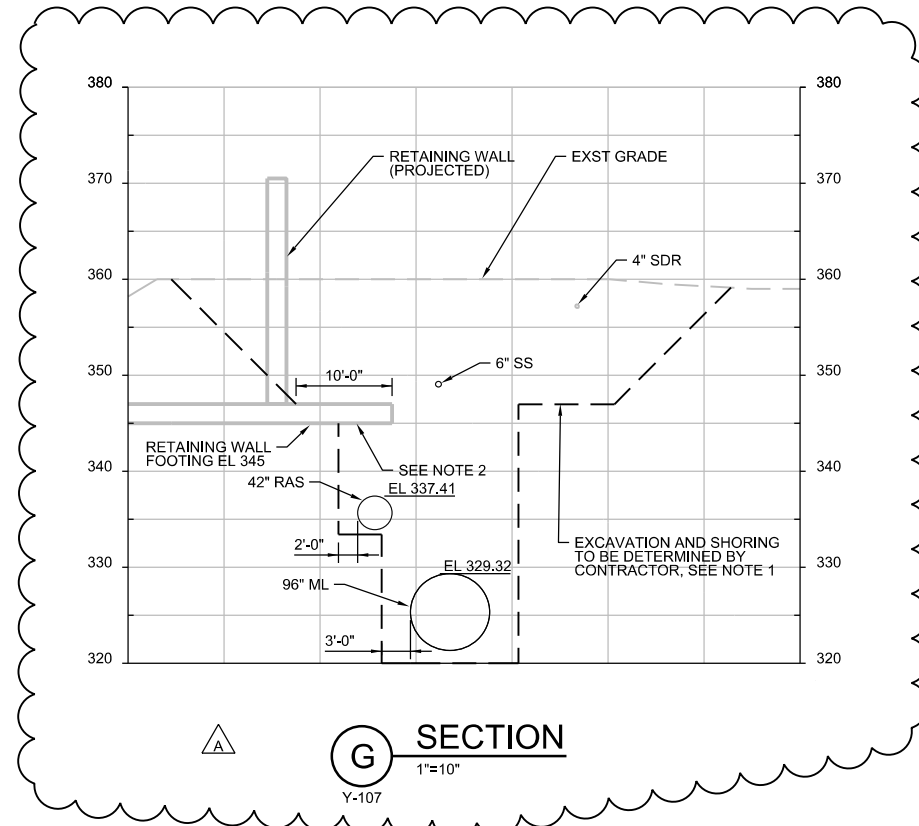
D SECTION
1"=10"
Y-113



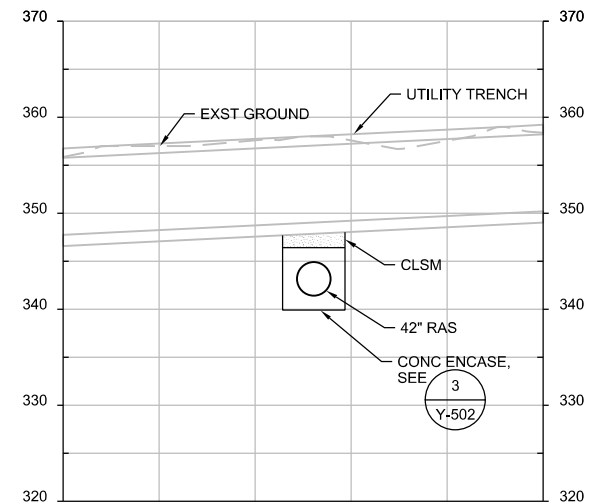
E SECTION
1"=10"
Y-112



F SECTION
1"=10"
Y-112



G SECTION
1"=10"
Y-107



H SECTION
1"=10"
Y-112

NOTE:

- SHORING LOCATION SHOWN SCHEMATICALLY ONLY. EXCAVATION SUPPORT PLAN REQUIRED PER SPECIFICATION 31 41 00. FINAL LOCATIONS, EXTENT OF, AND DESIGN OF SHORING TO BE DETERMINED BY THE CONTRACTOR.
- CONTRACTOR TO BACKFILL AND COMPACT TRENCH UNDER OVERHANGING FOOTING TO WITHIN 6 FEET OF BOTTOM OF FOOTING WITH GRANULAR MATERIAL. BACKFILL REMAINING VOID UNDER FOOTING WITH CLSM.

WARNING

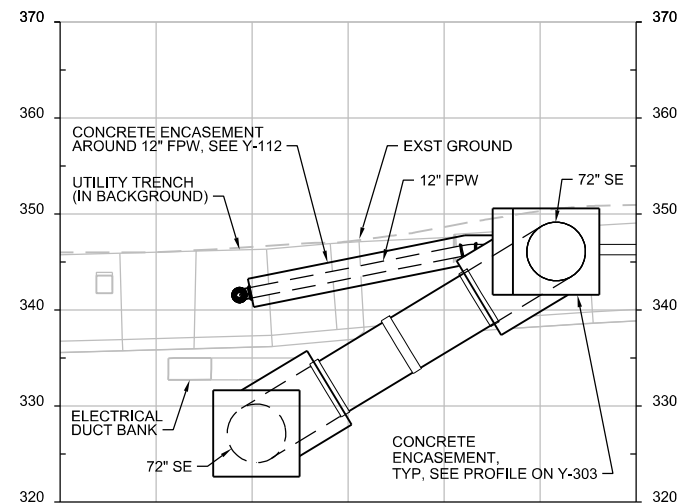
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

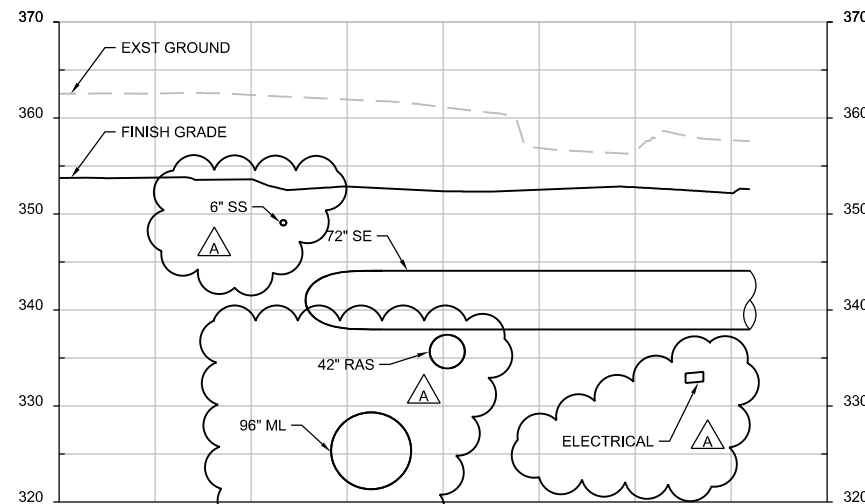
CONSULTANT

DIGITALLY SIGNED: 01/05/2021

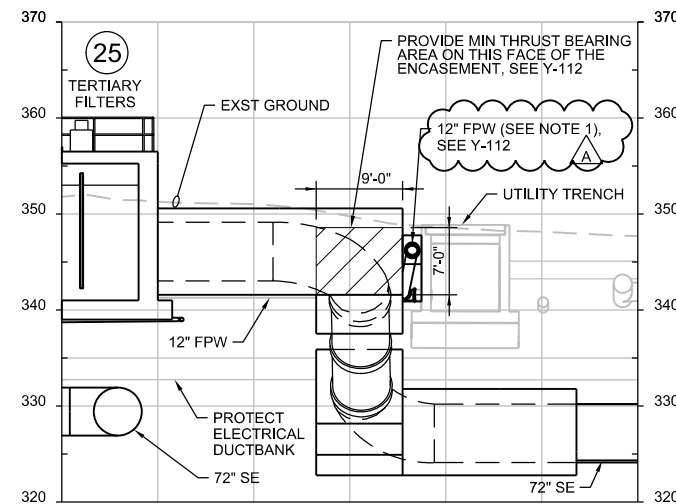
PK2-Y-351	
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION	
CIVIL	
YARD PIPING SECTIONS	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 188 OF 1169 SHEETS	B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER DATE: 12/03/2020 PRINT DCE NAME: Andrea Demich RCE#: C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY
ADDENDUM A	CH
APPROVED	DATE
<i>Andrea Demich</i>	1/15/21
FILM	
DATE STARTED	DATE COMPLETED



J SECTION
1"=10"
Y-112



K SECTION
1"=10"
Y-106



L SECTION
1"=10"
Y-112
Y-135

NOTE:
1. INCORPORATE CONCRETE ENCASEMENT FOR 12" FPW INTO 72" SE ENCASEMENT WHERE OVERLAPPING.

PK2-Y-352

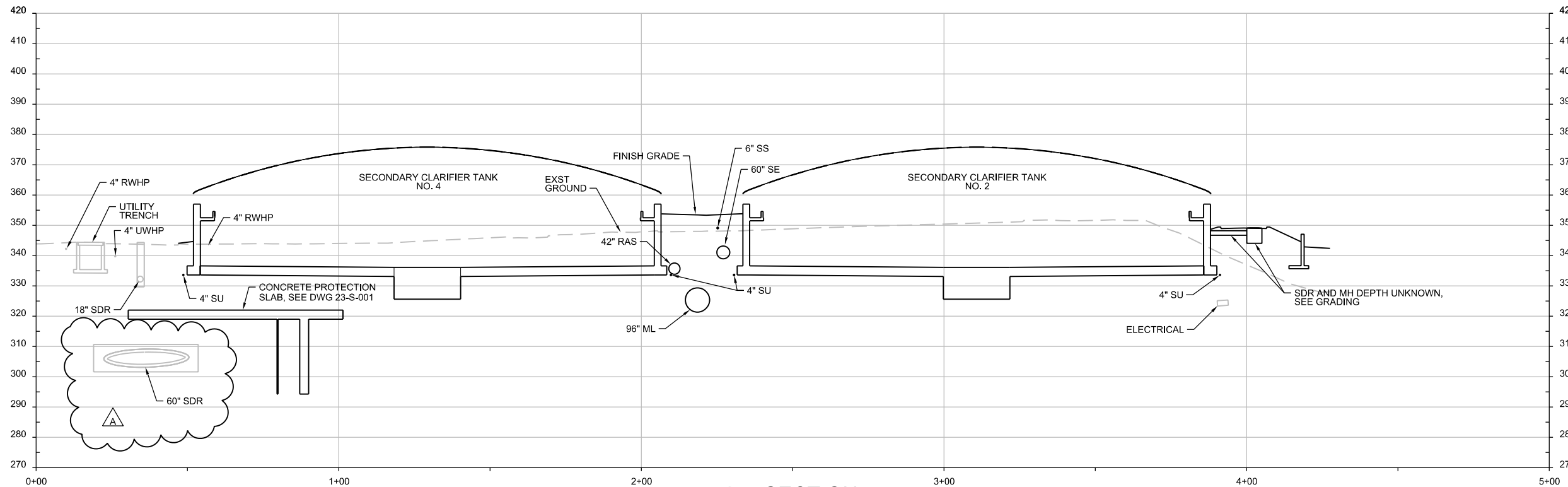
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
YARD PIPING SECTIONS

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 189 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 DATE: 07/03/21	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
△ Addendum A	CH	<i>Andrea Demich</i>
		DATE
		1/15/21
		FIRM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
		40381-2189-D

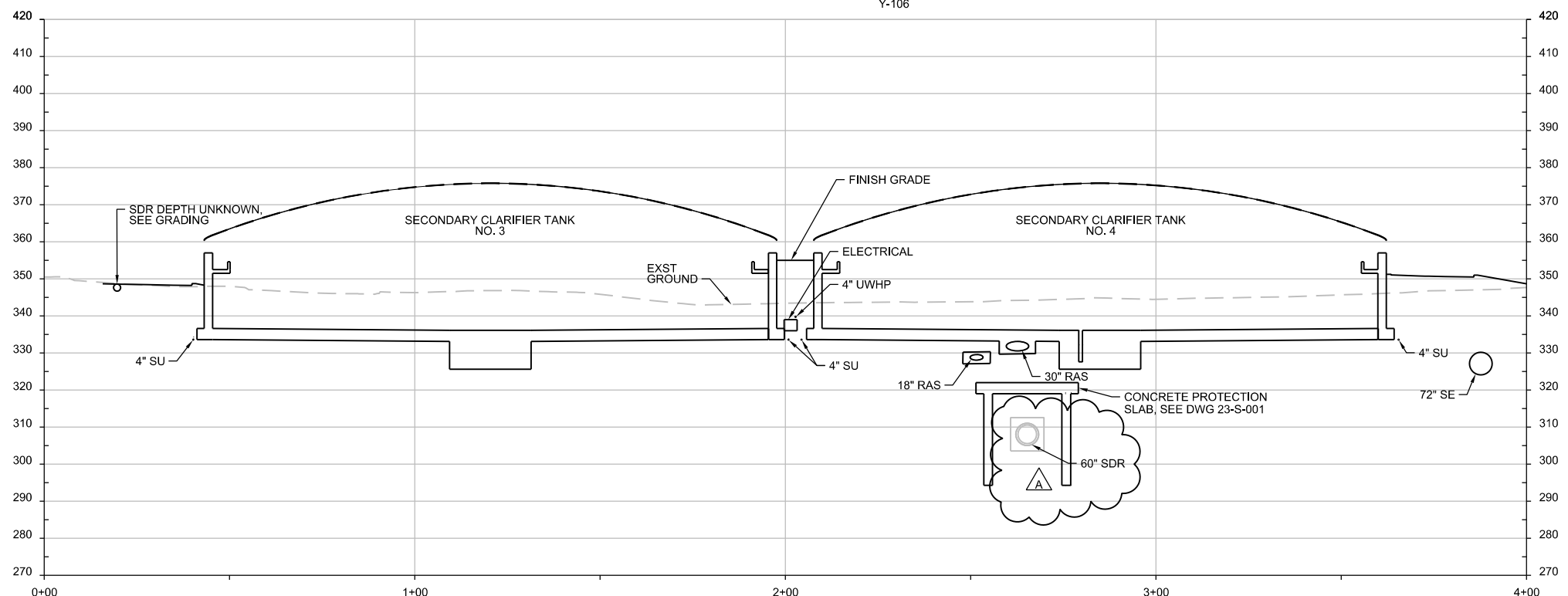
CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
CIVIL
DIGITALLY SIGNED: 01/05/2021

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



A SECTION
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-111
 Y-106



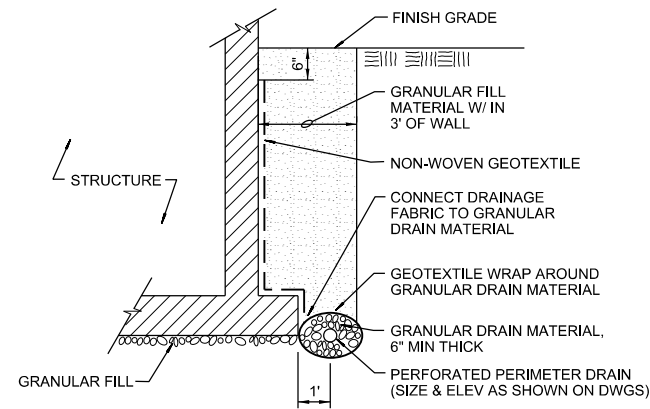
B SECTION
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-106

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

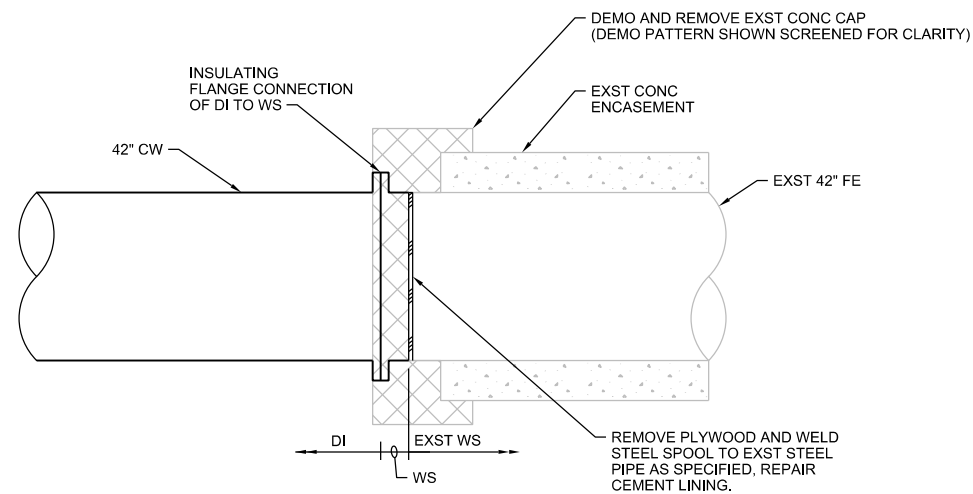
DIGITALLY SIGNED: 01/05/2021

PK2-Y-353				
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION CIVIL				
SECONDARY CLARIFIER SECTIONS				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 190 OF 1169 SHEETS	B-16149, S-17012 WBS B-15142			
APPROVED: <i>Andrew Demich</i> FOR CITY ENGINEER DATE: 12/03/2020 PRINT DCE NAME: Andrew Demich RCE#	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER			
DESCRIPTION	BY	APPROVED	DATE	FIRM
Addendum A	CH	<i>Andrew Demich</i>	1/15/21	260-1709
				1900-6269
				40381-2190-D
CONTRACTOR		DATE STARTED		
INSPECTOR		DATE COMPLETED		

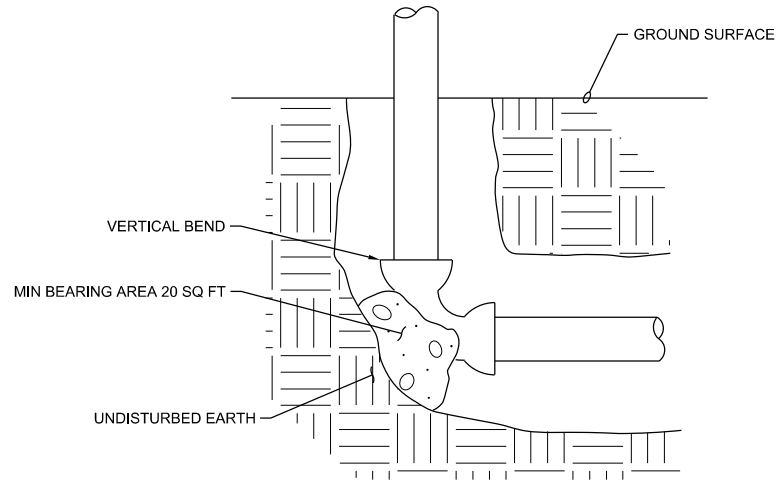


NOTE:
TYPICALLY THE PERIMETER DRAIN IS LOCATED ADJACENT TO THE FOUNDATION AS SHOWN. FOR SOME STRUCTURES HOWEVER THE PERIMETER DRAIN IS LOCATED ADJACENT TO THE WALL ABOVE THE FOUNDATION.

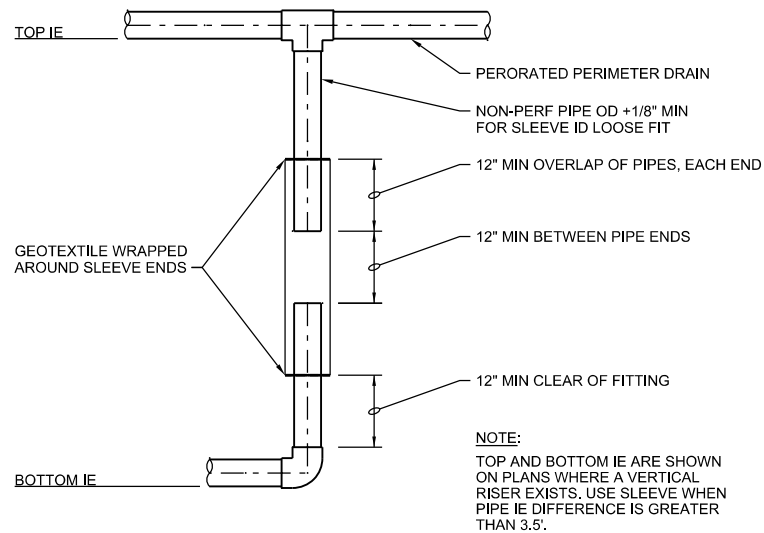
1 TYPICAL PERIMETER DRAIN DETAIL
NTS
Y-141
Y-142



4 CW-FE CONNECTION
NTS
Y-115
Y-302



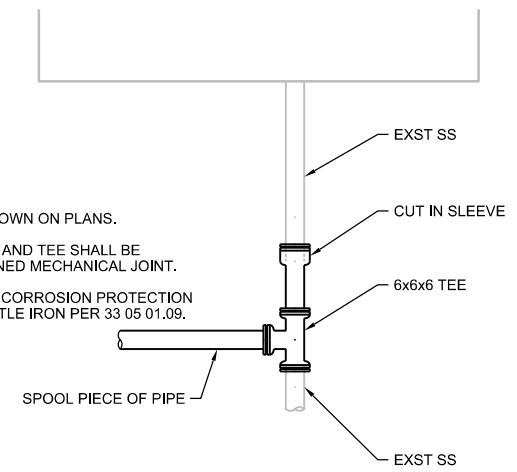
2 THRUST BLOCK
NTS
Y-116
Y-303



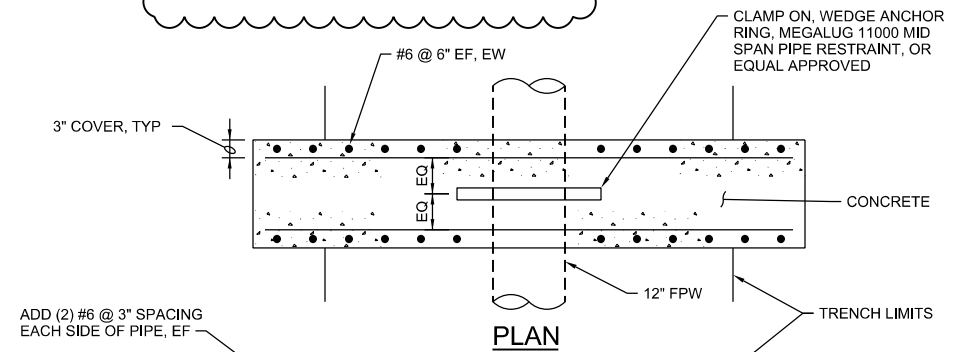
NOTE:
TOP AND BOTTOM IE ARE SHOWN ON PLANS WHERE A VERTICAL RISER EXISTS. USE SLEEVE WHEN PIPE IE DIFFERENCE IS GREATER THAN 3.5'.

5 VERTICAL RISER SLEEVE DETAIL
NTS
Y-142

- NOTES:
- SIZES SHOWN ON PLANS.
 - SLEEVES AND TEE SHALL BE RESTRAINED MECHANICAL JOINT.
 - PROVIDE CORROSION PROTECTION FOR DUCTILE IRON PER 33 05 01.09.



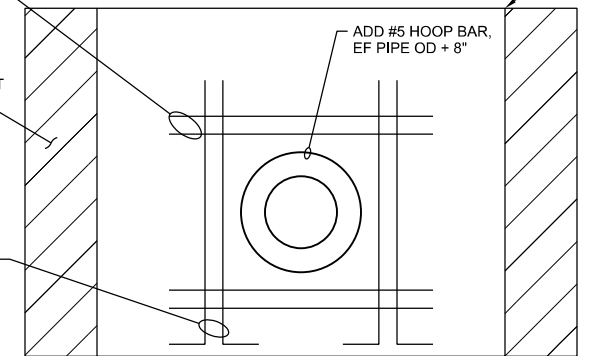
3 SS CONNECTION
NTS
Y-107



ADD (2) #6 @ 3" SPACING EACH SIDE OF PIPE, EF

MIN BEARING AREA 10 SQ FT ON UNDISTURBED SOIL

ADD (2) #6 @ 3" SPACING EACH SIDE OF PIPE, EF HOOK BARS AT BOTTOM



6 STRADDLE BLOCK
NTS
Y-503

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT



DIGITALLY SIGNED: 01/05/2021

PK2-Y-501

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
YARD PIPING DETAILS

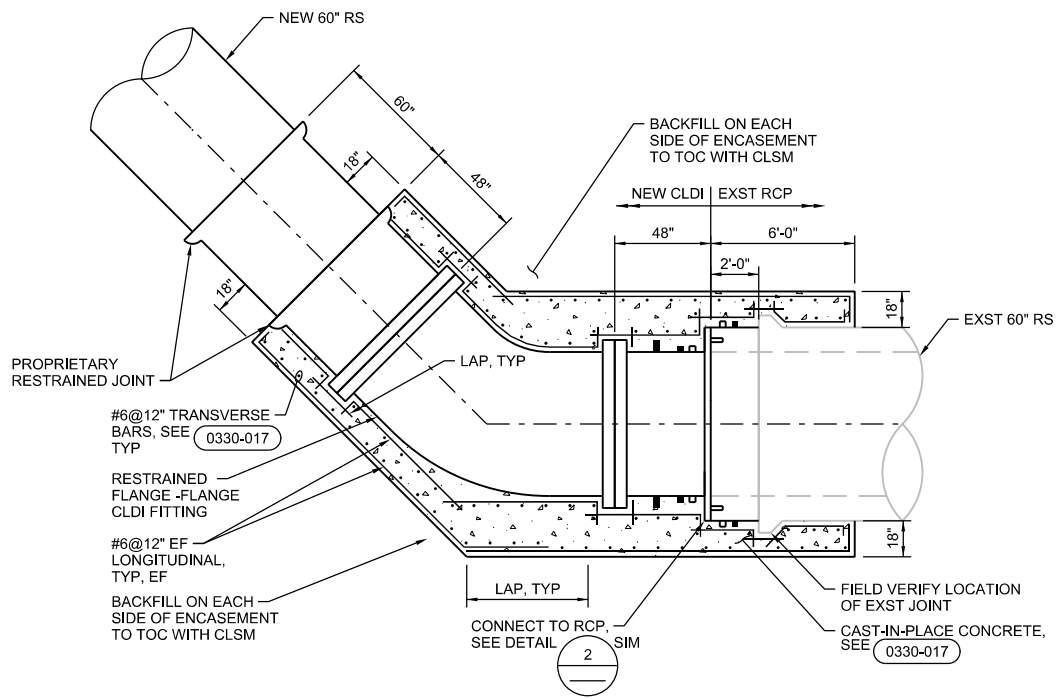
CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 193 OF 1169 SHEETS

APPROVED: *Andrea Demich* DATE: 12/03/2020
FOR CITY ENGINEER: Andrea Demich DATE: 1/15/21
PRINT DCE NAME: Andrea Demich RCE#

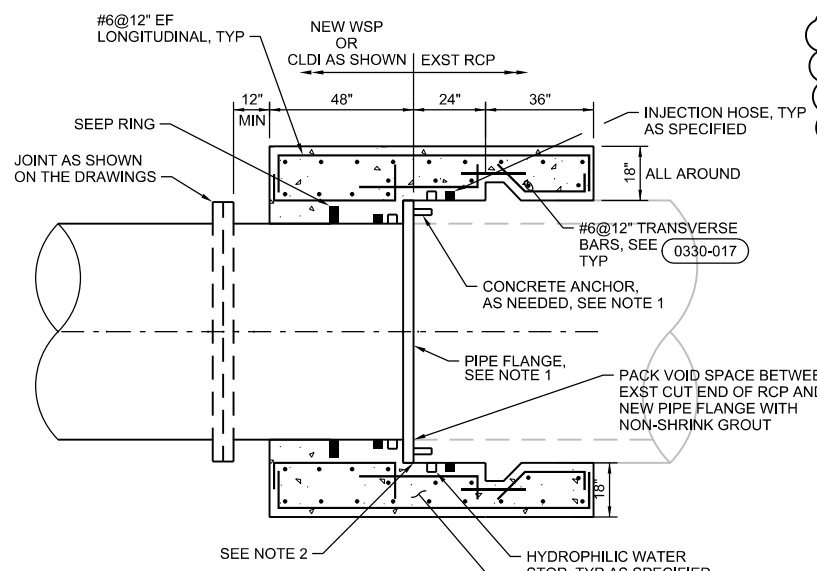
PROJECT MANAGER: MONIKA SMOCZYNSKI
PROJECT ENGINEER: THIEN-LONG TRAN
260-1709
CCS27 COORDINATE: 1900-6269
CCS83 COORDINATE: 40381-2193-D

DESCRIPTION	BY	APPROVED	DATE	FILM
Addendum A	CH	<i>Andrea Demich</i>	1/15/21	

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

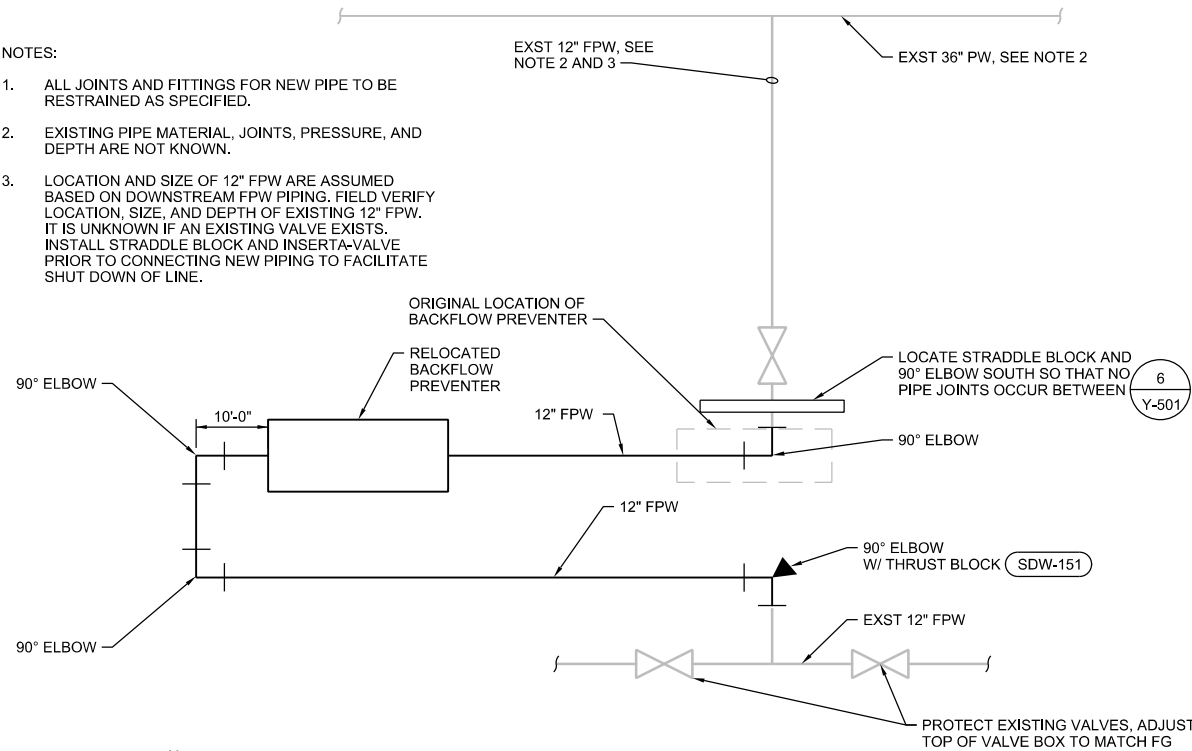


1 60" RS DI-RCP CONNECTION
NTS
Y-139

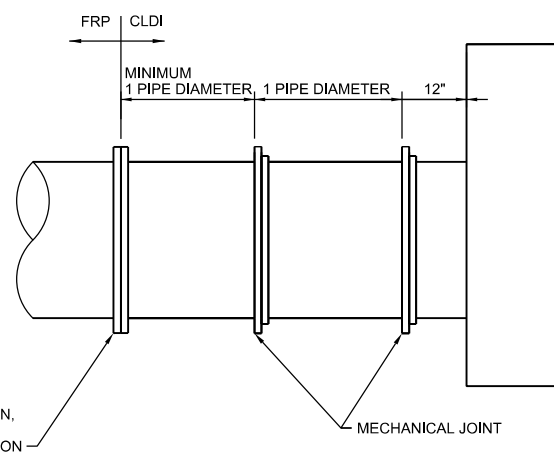


2 CONCRETE CLOSURE COLLAR (WSP-RCP)
NTS
25-D-102

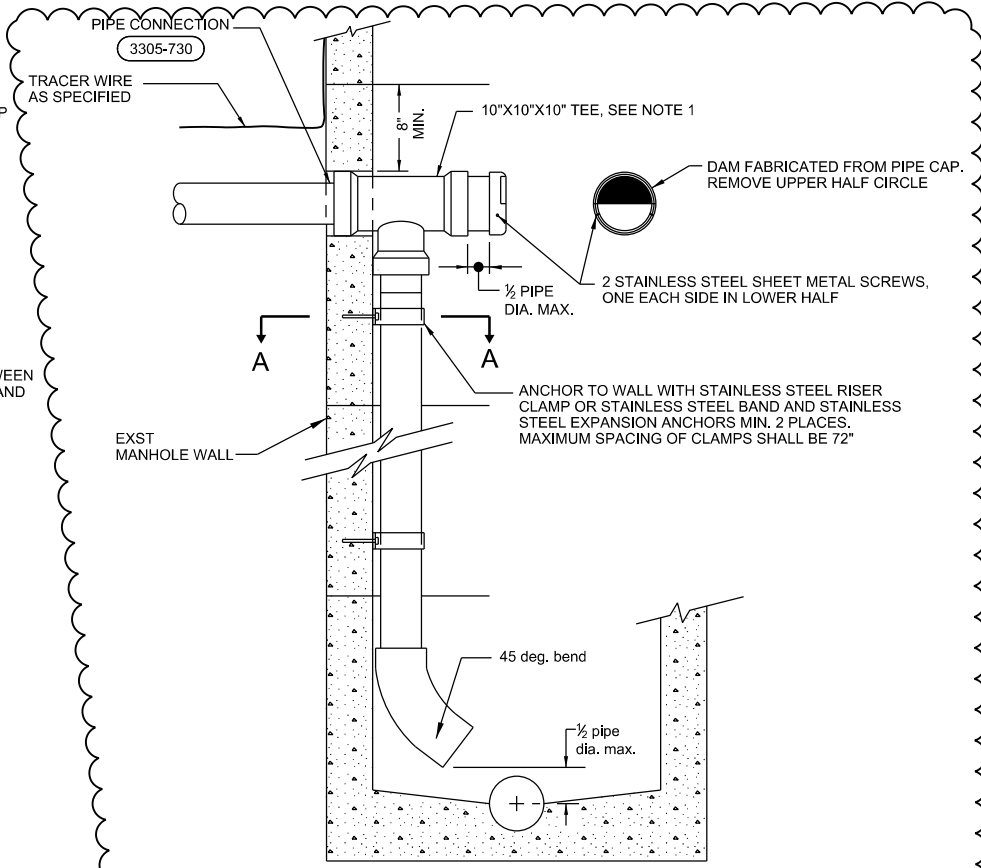
- NOTES:
1. ALL JOINTS AND FITTINGS FOR NEW PIPE TO BE RESTRAINED AS SPECIFIED.
 2. EXISTING PIPE MATERIAL, JOINTS, PRESSURE, AND DEPTH ARE NOT KNOWN.
 3. LOCATION AND SIZE OF 12" FPW ARE ASSUMED BASED ON DOWNSTREAM FPW PIPING. FIELD VERIFY LOCATION, SIZE, AND DEPTH OF EXISTING 12" FPW. IT IS UNKNOWN IF AN EXISTING VALVE EXISTS. INSTALL STRADDLE BLOCK AND INSERTA-VALVE PRIOR TO CONNECTING NEW PIPING TO FACILITATE SHUT DOWN OF LINE.



3 BACKFLOW PREVENTER RELOCATION SCHEMATIC
NTS
Y-101



6 CLDI - FRP TRANSITION AT STRUCTURES
NTS
Y-106
Y-302
Y-306



4 INTERNAL DROP ASSEMBLY
NTS
Y-309

SECTION A-A CLAMP DETAIL

NOTES:

1. CONTRACTOR MAY SUBSTITUTE FIBERGLASS DROP BOWL IN LIEU OF TEE AND MODIFIED END CAP.

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION CIVIL YARD PIPING DETAILS			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 195 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142	
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER DATE: 12/03/2020 PRINT DCE NAME: Andrea Demich RCE# C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER	
DESCRIPTION Addendum A	BY CH	APPROVED <i>Andrea Demich</i>	DATE 1/15/21
260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE		DATE STARTED DATE COMPLETED	
CONTRACTOR INSPECTOR		40381-2195-D	

CONSULTANT

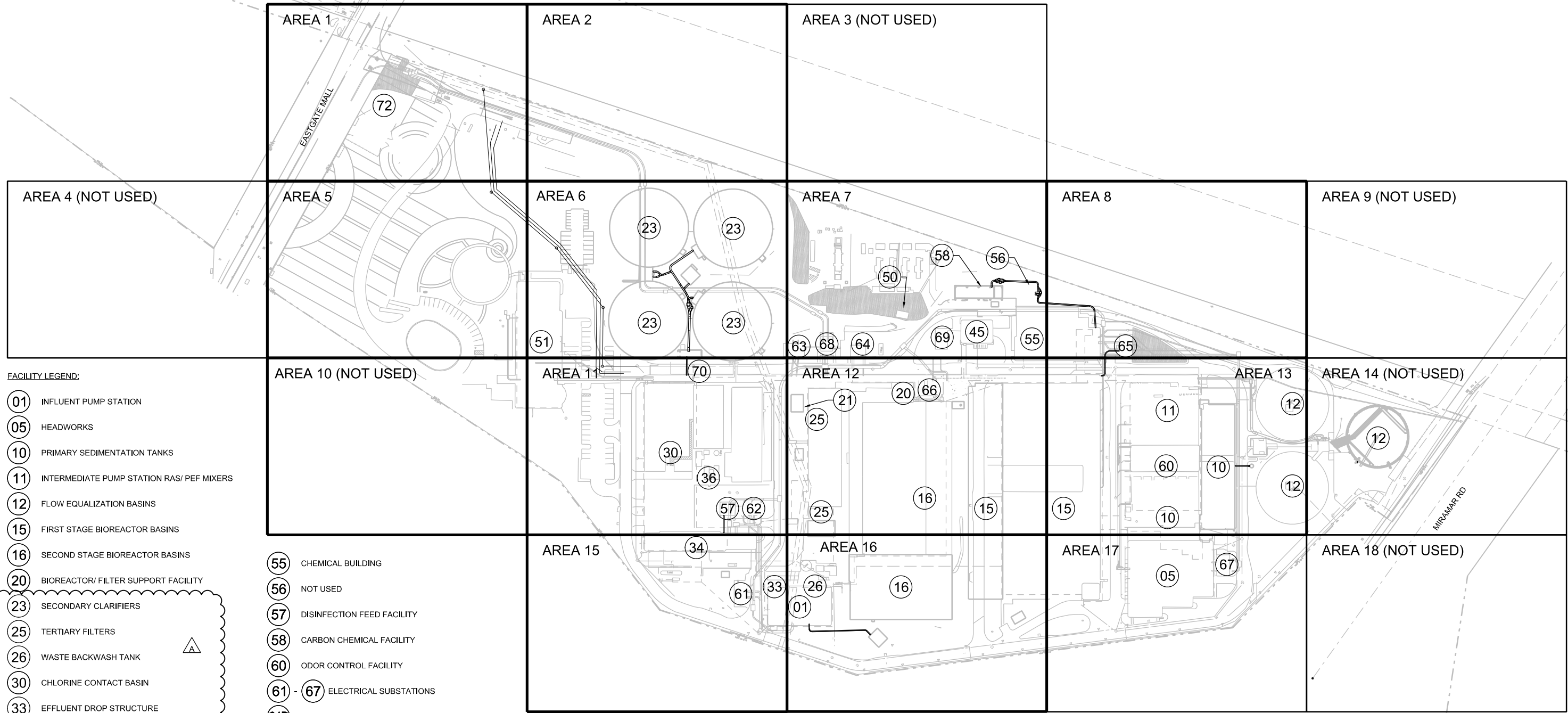
ch2m

WARNING

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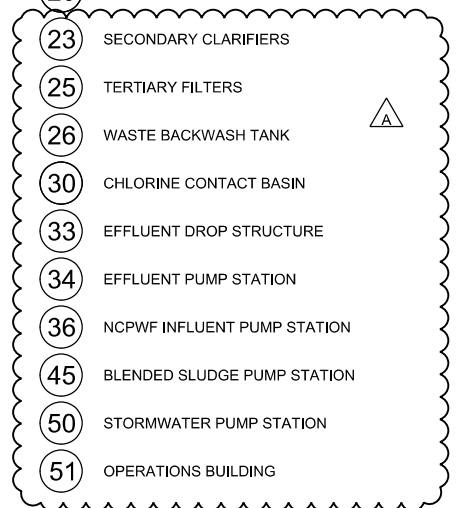
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DIGITALLY SIGNED: 01/05/2021



FACILITY LEGEND:

- (01) INFLUENT PUMP STATION
- (05) HEADWORKS
- (10) PRIMARY SEDIMENTATION TANKS
- (11) INTERMEDIATE PUMP STATION RAS/ PEF MIXERS
- (12) FLOW EQUALIZATION BASINS
- (15) FIRST STAGE BIOREACTOR BASINS
- (16) SECOND STAGE BIOREACTOR BASINS
- (20) BIOREACTOR/ FILTER SUPPORT FACILITY
- (23) SECONDARY CLARIFIERS
- (25) TERTIARY FILTERS
- (26) WASTE BACKWASH TANK
- (30) CHLORINE CONTACT BASIN
- (33) EFFLUENT DROP STRUCTURE
- (34) EFFLUENT PUMP STATION
- (36) NCPWF INFLUENT PUMP STATION
- (45) BLENDED SLUDGE PUMP STATION
- (50) STORMWATER PUMP STATION
- (51) OPERATIONS BUILDING
- (55) CHEMICAL BUILDING
- (56) NOT USED
- (57) DISINFECTION FEED FACILITY
- (58) CARBON CHEMICAL FACILITY
- (60) ODOR CONTROL FACILITY
- (61) - (67) ELECTRICAL SUBSTATIONS
- (64B) NOT USED
- (68) ELECTRICAL MAIN PLANT SWITCHGEAR
- (69) ELECTRICAL SWITCHGEAR SUBSTATION
- (70) SECONDARY CLARIFIER ELECTRICAL BUILDING
- (72) ELECTRICAL SWITCHGEAR



WARNING
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 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

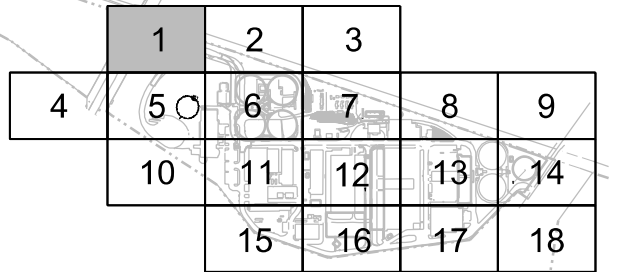
CONSULTANT



DIGITALLY SIGNED: 01/05/2021

PK2-ES-100																					
NCRWP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION ELECTRICAL SITE PLAN - OVERALL																					
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 211 OF 1169 SHEETS	B-16149, S-17012 WBS B-15142																				
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich DATE: 12/03/2020 RCE#: C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> <th>FIRM</th> </tr> </thead> <tbody> <tr> <td>▲ Addendum A</td> <td>CH</td> <td><i>Andrea Demich</i></td> <td>1/15/21</td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	DESCRIPTION	BY	APPROVED	DATE	FIRM	▲ Addendum A	CH	<i>Andrea Demich</i>	1/15/21												260-1709 <small>CCS27 COORDINATE</small> 1900-6269 <small>CCS83 COORDINATE</small>
DESCRIPTION	BY	APPROVED	DATE	FIRM																	
▲ Addendum A	CH	<i>Andrea Demich</i>	1/15/21																		
CONTRACTOR INSPECTOR	DATE STARTED DATE COMPLETED 40381-2211-D																				

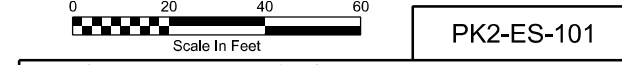
EXISTING CIRCUIT NUMBER	EXISTING CIRCUIT SIZE	EXISTING LOAD VA	NEW LOAD VA	DEMO LOAD VA	TOTAL VA	CIRCUIT FEET	VOLTAGE DROP	% VD
51DF4-2, 4, 6	1" C W/ 3#8, 1#10G	1080	348	-180	1248	970	3.92	0.81



KEYPLAN
NTS

- GENERAL NOTES:**
- A. REFER TO THE AREA CLASSIFICATION AND MATERIAL TABLE FOR HAZARDOUS AREA CLASSIFICATION EXTENTS AND MATERIAL SELECTIONS FOR CONDUIT, BOXES AND OTHER ELECTRICAL COMPONENTS, SEE DWG G-061,062.
 - B. SEE DUCTBANK SCHEDULES, DWG ES-401 THRU ES-404
 - C. SEE MANHOLE AND HANDHOLE SCHEDULE, DWG ES-501.
 - D. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700 SERIES.
 - E. SEE PANEL SCHEDULES, SEE DWG E-700 SERIES.
 - F. REFER TO CONSTRUCTION PACKAGE 4 FOR DUCT BANKS AND WORK PERFORMED IN THIS AREA PRIOR TO THE CONSTRUCTION OF PACKAGE 2 WORK.
 - G. CONTRACTOR TO POTHOLE AND FIELD VERIFY ELEVATION OF UTILITIES AND DUCT BANKS PRIOR TO CONSTRUCTION, IF CONFLICT EXISTS, CONTRACTOR IS TO NOTIFY CONSTRUCTION MANAGER.

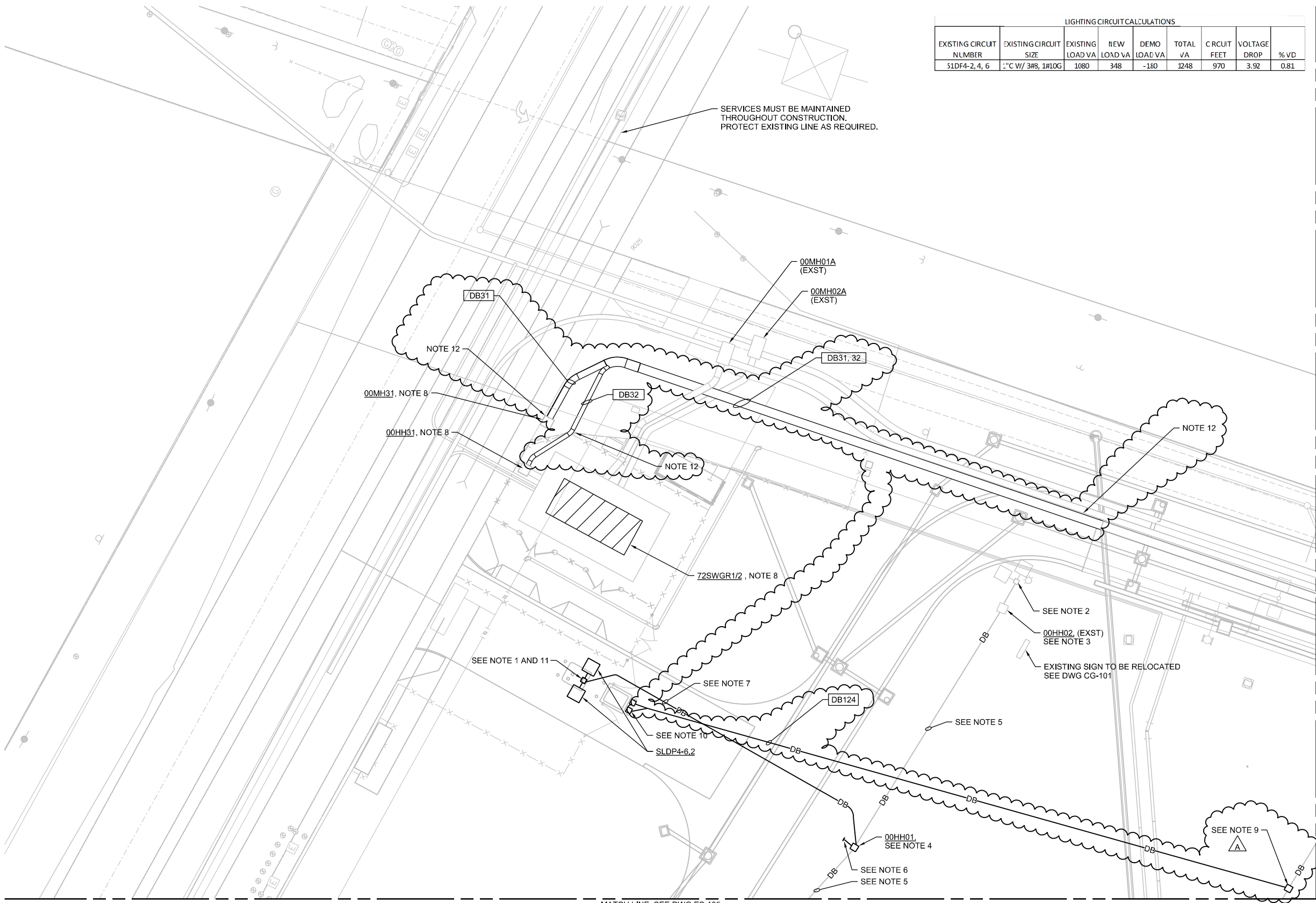
- NOTES:**
- 1. NEW FIXTURE TYPE "S2-2"
SEE STANDARD DETAIL (2699-002), SHEET SD-045.
 - 2. EXISTING POLE AND LUMINAIRE(S) TO REMAIN.
 - 3. EXISTING HANDHOLE TO REMAIN.
 - 4. INTERCEPT EXISTING CONDUIT AND INSTALL NEW HANDHOLE. TAP EXISTING CONDUCTORS AND EXTEND TO NEW POLE.
 - 5. EXISTING CONDUITS AND CONDUCTORS TO REMAIN.
 - 6. NEW 1" C CONDUIT STUBOUT AND MARK LOCATION.
 - 7. 1" CONDUIT, 2#8, 1#10G.
 - 8. EQUIPMENT INDICATED, AND ANY ASSOCIATED DUCT BANKS WERE INSTALLED AS PART OF PREVIOUS CONSTRUCTION PACKAGE AND SHOWN AS EXISTING FOR THIS PACKAGE.
 - 9. INTERCEPT EXISTING CONDUITS BETWEEN 00HH07 AND 00HH08 AND INSTALL A NEW HANDHOLE. TAP EXISTING CONDUCTORS AND EXTEND TO NEW GUARD SHACK LOCATION.
 - 10. PROVIDE NEW TRAFFIC RATED PULL BOXES AT NEW GUARD SHACK LOCATION, SIMILAR TO EXISTING, ONE BOX FOR POWER AND ONE BOX FOR COMMUNICATIONS PROVIDE NEW WIRING (PLUCED TO EXISTING WIRING AT NEW HANDHOLE) SEE NOTE 9. RETERMINATE ALL WIRING AT GUARD SHACK LOADS AS REQUIRED. FIELD VERIFICATION IS REQUIRED TO UNDERSTAND ALL WIRING SIZING AND TYPES, AND ALL TERMINATION POINTS REQUIRED. TERMINATION WILL INCLUDE AT A MINIMUM POWER PANELS, LIGHTING, RECEPTACLES, SECURITY, TELEPHONE AND COMMUNICATIONS.
 - 11. ALL EXTERIOR LIGHTING INSTALLATIONS AND LAMP TYPE SHALL COMPLY WITH CITY OF SAN DIEGO OUTDOOR LIGHTING REGULATION 142.0740.
 - 12. CONTRACTOR TO COMPLETE INSTALLATION OF DUCTBANKS 31 & 32 AFTER GUARD SHACK RELOCATION. SLEEVE NEW CONDUITS ONTO EXISTING CONDUITS AND CONCRETE ENCASE PER 2605-400. FIELD VERIFY ALIGNMENT TO AVOID CONFLICTS WITH OTHER UTILITIES.



PK2-ES-101

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL SITE PLAN AREA 1

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 212 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C70321	SUBMITTED BY MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME	RCE#	CHECKED BY THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	APPROVED DATE 1/15/21
DATE STARTED	DATE COMPLETED	40381-2212-D



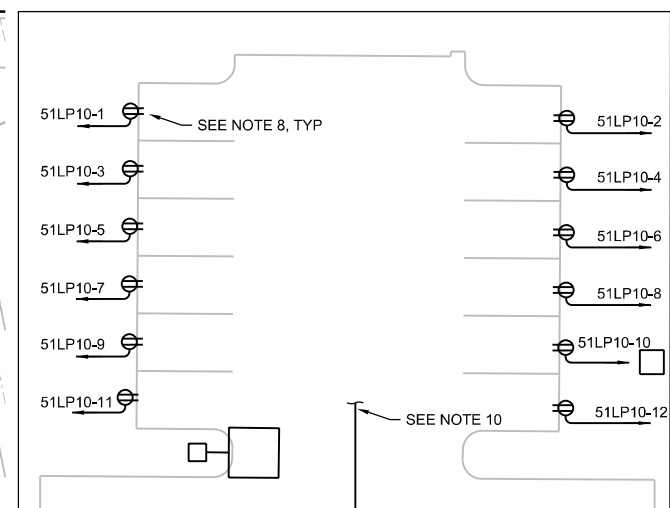
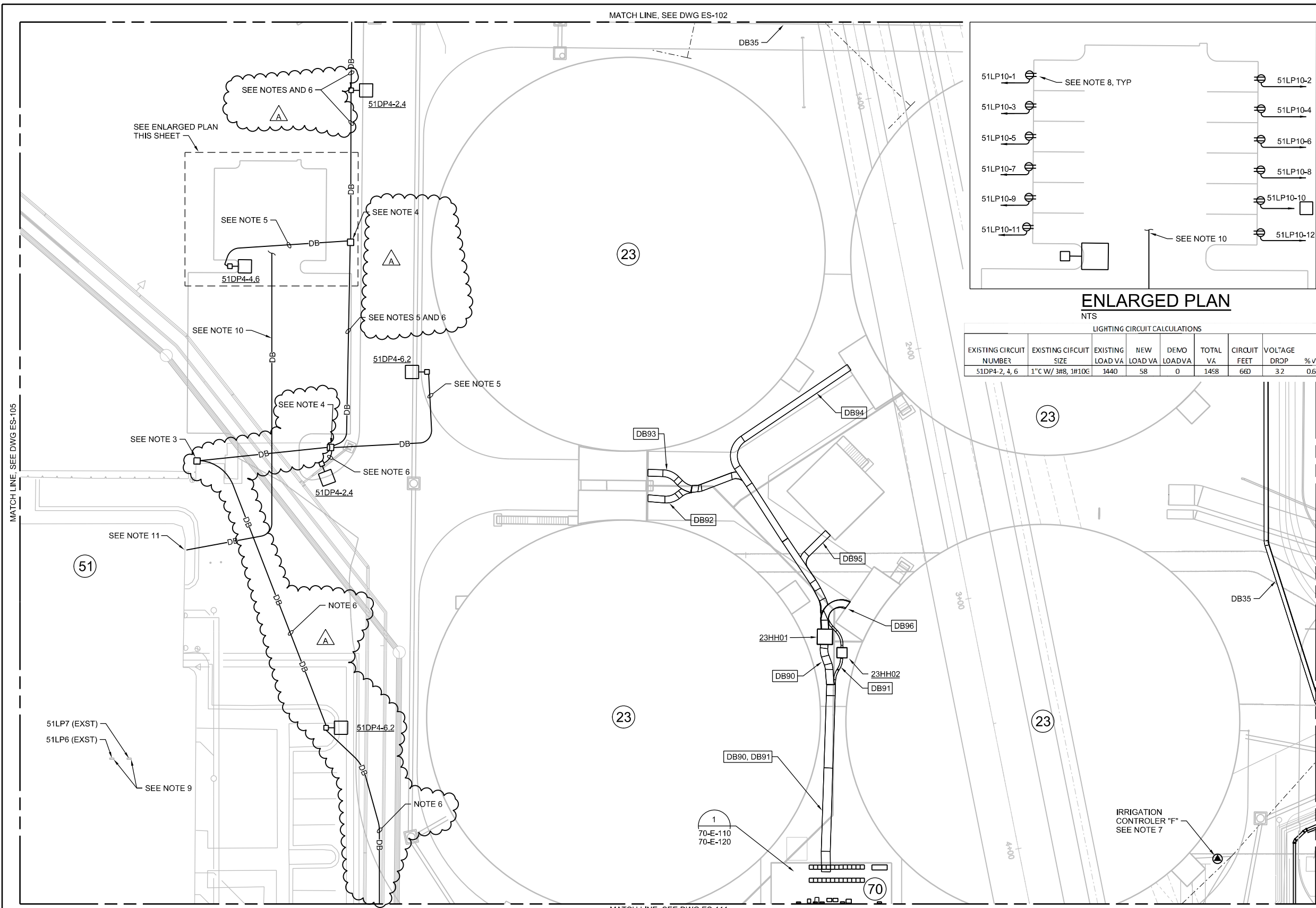
CONSULTANT

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HANSEN
No. E21673
ELECTRICAL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/05/2021

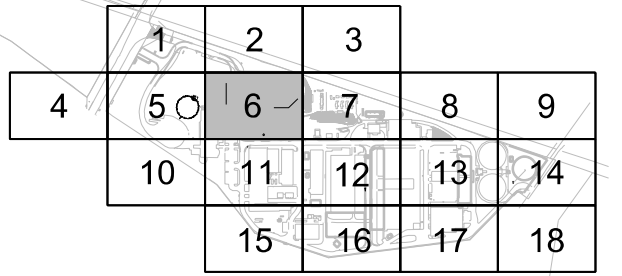
CONTRACTOR
INSPECTOR



ENLARGED PLAN
NTS

LIGHTING CIRCUIT CALCULATIONS

EXISTING CIRCUIT NUMBER	EXISTING CIRCUIT SIZE	EXISTING LOAD VA	NEW LOAD VA	DEMO LOADVA	TOTAL VA	CIRCUIT FEET	VOLTAGE DROP	% VD
51DP4-2, 4, 6	1" C W/ 3#8, 1#10G	1440	58	0	1498	660	3.2	0.67



KEYPLAN
NTS

- GENERAL NOTES:**
- REFER TO THE AREA CLASSIFICATION AND MATERIAL TABLE FOR HAZARDOUS AREA CLASSIFICATION EXTENTS AND MATERIAL SELECTIONS FOR CONDUIT, BOXES AND OTHER ELECTRICAL COMPONENTS, SEE DWG G-061,062.
 - SEE DUCTBANK SCHEDULES, DWG ES-401 THRU ES-404
 - SEE MANHOLE AND HANDHOLE SCHEDULE, DWG ES-501.
 - REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700 SERIES.
 - SEE PANEL SCHEDULES, SEE DWG E-700 SERIES.
 - REFER TO CONSTRUCTION PACKAGE 4 FOR DUCTBANKS AND WORK PERFORMED IN THIS AREA PRIOR TO THE CONSTRUCTION OF PACKAGE 2 WORK.
 - CONTRACTOR TO POTHOLE AND FIELD VERIFY ELEVATION OF UTILITIES AND DUCT BANKS PRIOR TO CONSTRUCTION. IF CONFLICT EXISTS, CONTRACTOR IS TO NOTIFY CONSTRUCTION MANAGER.

- NOTES:**
- NEW FIXTURE TYPE "S2" SEE STANDARD DETAIL (2699-002), SHEET SD-045.
 - INTERCEPT EXISTING CONDUIT AND INSTALL NEW HANDHOLE. TAP EXISTING CONDUCTORS AND EXTEND AS SHOWN.
 - EXISTING CONDUIT AND CONDUCTORS TO REMAIN. (2) 1" C, 3#8, 1#10G AND (1) 1" C, 2#8, 1#10G. LOCATE HANDHOLE AND VERIFY CIRCUITS.
 - NEW HANDHOLE.
 - 1" C, 2#8, 1#10G TO NEW POLE.
 - 1" C, 3#8, 1#10G DIRECT BURY.
 - RECONNECT EXISTING POWER WIRING TO NEW IRRIGATION CONTROLLER.
 - MOUNT VEHICLE CHARGING RECEPTACLES PER (2605-011A) LOCATE PEDESTAL AT SPECIFIC LOCATION AND HEIGHT AS DIRECTED BY OWNER'S REPRESENTATIVE. TRENCH AND REPAIR SURFACES IN ORDER TO PLACE BURIED CONDUIT. PROVIDE TRAFFIC RATED, FLUSH MOUNTED PULL BOXES AS REQUIRED FOR CONDUIT MANAGEMENT.
 - EXISTING PANELBOARDS ARE LOCATED ON THE LOWER LEVEL OF THE OPERATIONS BUILDING. FIELD VERIFY EXACT LOCATION.
 - ROUTE DIRECT BURIED CONDUITS FROM VEHICLE CHARGING STATIONS TO THE OPERATIONS BUILDING. TRENCH AND REPAIR SURFACES IN ORDER TO PLACE DIRECT BURIED CONDUIT. PROVIDE TRAFFIC RATED, FLUSH MOUNTED PULL BOXES AS REQUIRED FOR CONDUIT MANAGEMENT. VEHICLE CHARGING CIRCUITS MAY BE COMBINED INTO FEWER CONDUITS AT CONTRACTOR'S DISCRETION (NO MORE THAN THREE CIRCUITS PER CONDUIT).
 - EXISTING CART CHARGING CONDUITS FROM PANEL 51LP10 TO BUILDING EXTERIOR SHALL BE REUSED FOR NEW CART CHARGING WIRING. IF EXISTING CONDUITS CANNOT BE REUSED, THEN PENETRATE EXISTING BUILDING WALL SIMILAR TO DETAIL (2605-304) TO AND ROUTE VEHICLE CHARGING CONDUITS TO POWER SOURCES WITHIN BUILDING.
 - ALL EXTERIOR LIGHTING INSTALLATIONS AND LAMP TYPE SHALL COMPLY WITH CITY OF SAN DIEGO OUTDOOR LIGHTING REGULATION 142.0740

0 20 40 60
Scale In Feet

PK2-ES-106

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

ELECTRICAL SITE PLAN AREA 6

CONSULTANT

WARNING
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CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 215 OF 1169 SHEETS

APPROVED: *Andrea Demich* DATE: 12/03/2020
FOR CITY ENGINEER: Andrea Demich DATE: 1/15/21
PRINT DCE NAME: Andrea Demich RCE#

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HANSEN
No. E21673
ELECTRICAL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/05/2021

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

B-16149, S-17012
WBS B-15142

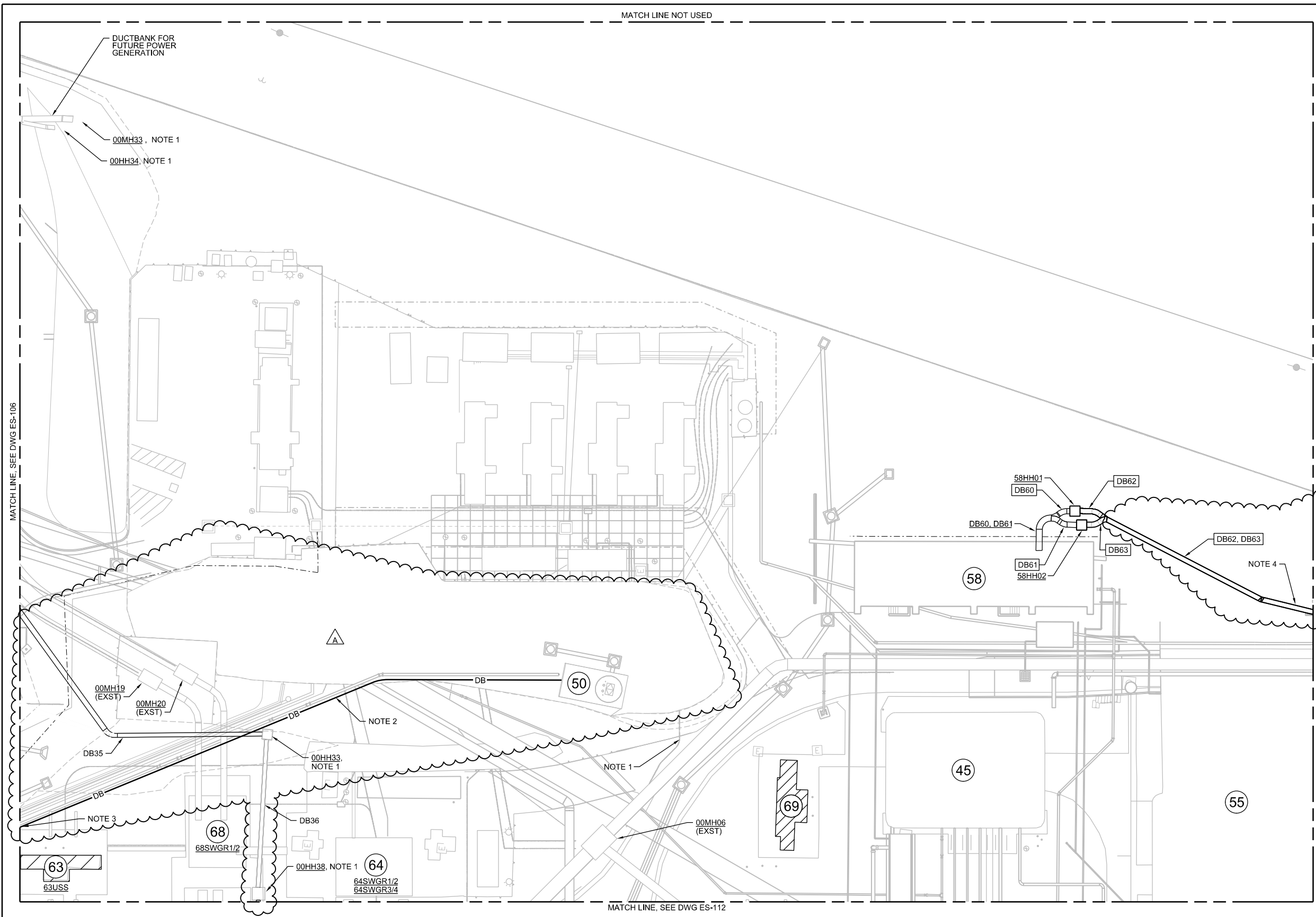
SUBMITTED BY: **MONIKA SMOCZYNSKI**
PROJECT MANAGER

CHECKED BY: **THIEN-LONG TRAN**
PROJECT ENGINEER

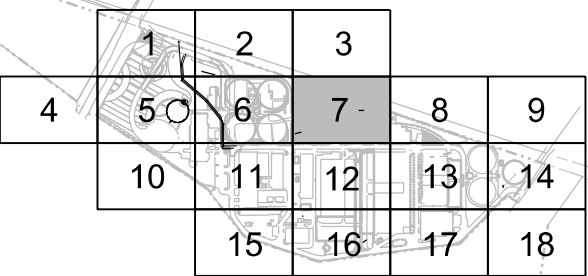
DESCRIPTION	BY	APPROVED	DATE	FIRM
Addendum A	CH	<i>Andrea Demich</i>	1/15/21	

260-1709
CCS27 COORDINATE
1900-6269
CCS83 COORDINATE

40381-2215-D



MATCH LINE NOT USED



KEYPLAN
NTS

GENERAL NOTES:

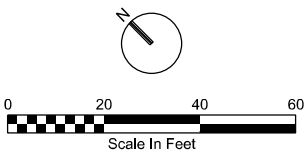
- A. REFER TO THE AREA CLASSIFICATION AND MATERIAL TABLE FOR HAZARDOUS AREA CLASSIFICATION EXTENTS AND MATERIAL SELECTIONS FOR CONDUIT, BOXES AND OTHER ELECTRICAL COMPONENTS, SEE DWG G-061,062.
- B. SEE DUCTBANK SCHEDULES, DWG ES-401 THRU ES-404
- C. SEE MANHOLE AND HANDHOLE SCHEDULE, DWG ES-501.
- D. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700 SERIES.
- E. SEE PANEL SCHEDULES, SEE DWG E-700 SERIES.
- F. REFER TO CONSTRUCTION PACKAGE 4 FOR DUCTBANKS AND WORK PERFORMED IN THIS AREA PRIOR TO THE CONSTRUCTION OF PACKAGE 2 WORK.
- G. CONTRACTOR TO POTHOLE AND FIELD VERIFY ELEVATION OF UTILITIES AND DUCT BANKS PRIOR TO CONSTRUCTION. IF CONFLICT EXISTS, CONTRACTOR IS TO NOTIFY CONSTRUCTION MANAGER.

NOTE:

1. EQUIPMENT INDICATED, AND ANY ASSOCIATED DUCTBANKS WERE INSTALLED AS PART OF PREVIOUS CONSTRUCTION PACKAGE AND SHOWN AS EXISTING FOR THIS PACKAGE.
2. 2" C, 6#10, 16#14, 1#10G 1" C (PVC COATED RGS), 3 TYPE 3.
3. ROUTE CABLES BACK TO ELECTRICAL PANELS IN SECONDARY CLARIFIER ELECTRICAL BUILDING 70.
4. ROUTE DUCTBANK ALONG TOE OF SLOPE. SEE CG-106 AND CG-107 FOR FINAL GRADE.

MATCH LINE, SEE DWG ES-106

MATCH LINE, SEE DWG ES-108



PK2-ES-107

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION
ELECTRICAL SITE PLAN AREA 7

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 216 OF 1169 SHEETS

APPROVED: <i>Andrea Demich</i>	DATE: 12/03/2020	PROJECT MANAGER: MONIKA SMO CZYNSKI		
FOR CITY ENGINEER: Andrea Demich	DATE: 07/03/21	PROJECT ENGINEER: THIEN-LONG TRAN		
PRINT DCE NAME: Andrea Demich	RCE#: C70321	260-1709		
DESCRIPTION	BY	APPROVED	DATE	FIRM
▲ Addendum A	CH	<i>Andrea Demich</i>	1/15/21	
				1900-6269
				40381-2216-D



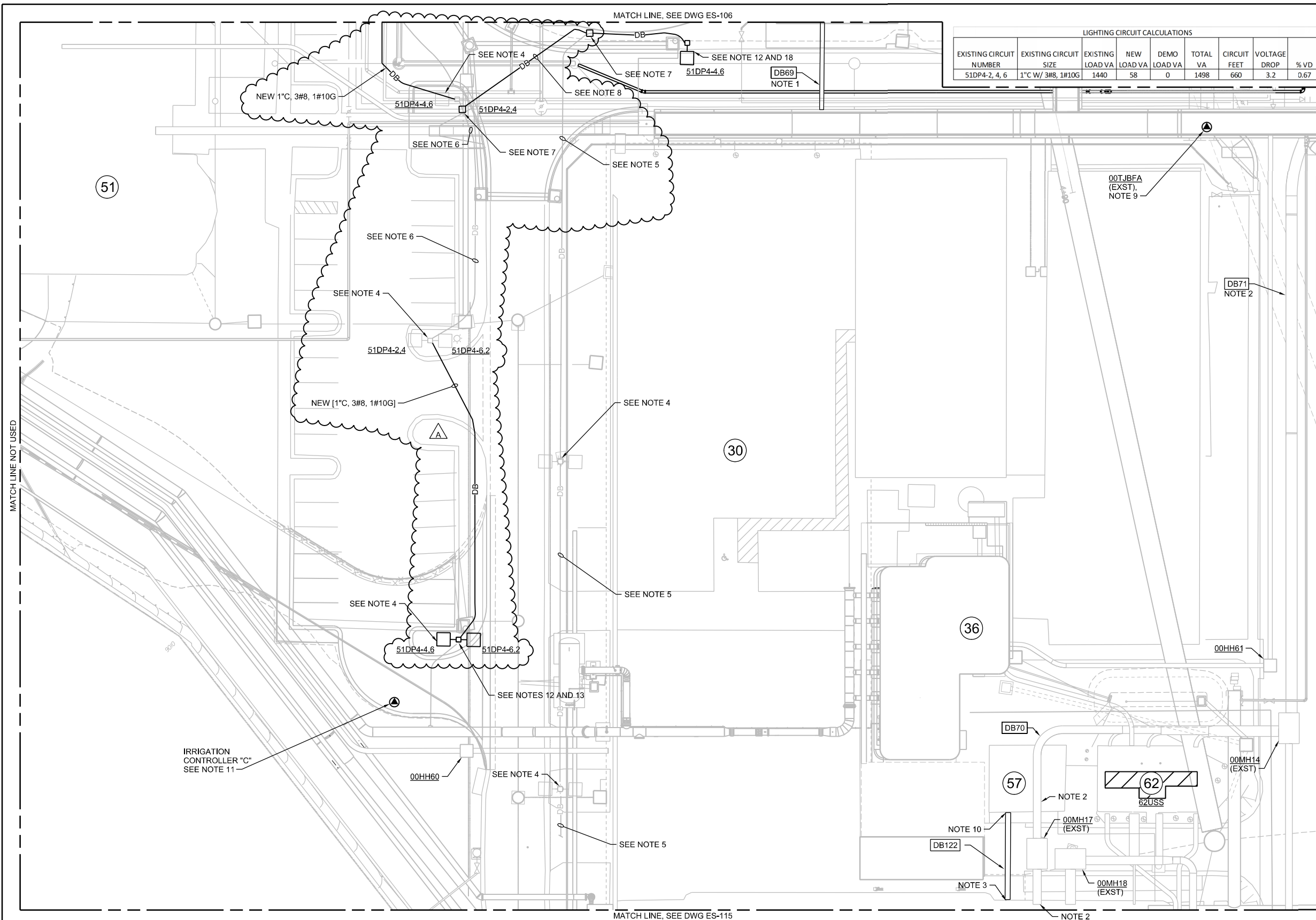
CONSULTANT

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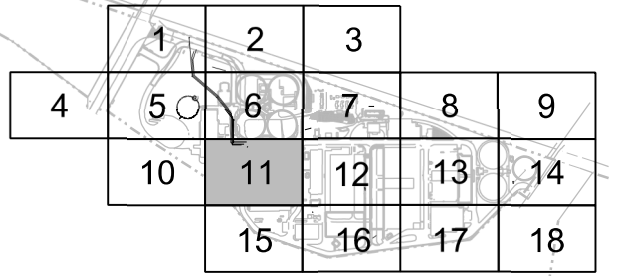
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CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____



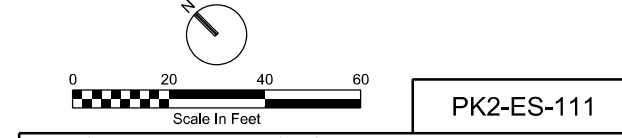
EXISTING CIRCUIT NUMBER	EXISTING CIRCUIT SIZE	EXISTING LOAD VA	NEW LOAD VA	DEMO LOAD VA	TOTAL VA	CIRCUIT FEET	VOLTAGE DROP	% VD
51DP4-2, 4, 6	1\"/>							



KEYPLAN
NTS

- GENERAL NOTES:**
- REFER TO THE AREA CLASSIFICATION AND MATERIAL TABLE FOR HAZARDOUS AREA CLASSIFICATION EXTENTS AND MATERIAL SELECTIONS FOR CONDUIT, BOXES AND OTHER ELECTRICAL COMPONENTS. SEE DWG G-061,062.
 - SEE DUCTBANK SCHEDULES, DWG ES-401 THRU ES-404
 - SEE MANHOLE AND HANDHOLE SCHEDULE, DWG ES-501.
 - REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700 SERIES.
 - SEE PANEL SCHEDULES, SEE DWG E-700 SERIES.
 - CONTRACTOR TO POTHOLE AND FIELD VERIFY ELEVATION OF UTILITIES AND DUCT BANKS PRIOR TO CONSTRUCTION. IF CONFLICT EXISTS, CONTRACTOR IS TO NOTIFY CONSTRUCTION MANAGER.

- NOTES:**
- NEW DUCTBANK FROM UTILITY TRENCH TO FACILITY 70 FOR POWER, FIBER OPTIC, AND FIRE ALARM NETWORK CONNECTIONS.
 - UTILIZE EXISTING SPARE CONDUITS IN DUCTBANK FOR NEW POWER FEEDERS TO NEW RECLAIMED WATER PUMP.
 - LOCATE NEW JUNCTION BOXES 34PC01 AND 34A01 ON EXTERIOR WALL OF PUMP STATION 34. CORE DRILL WALL FOR NEW CONDUIT PENETRATIONS INTO ELECTRICAL ROOM. FOLLOW EXISTING CONDUIT PATHWAYS IN ELECTRICAL ROOM OVERHEAD SPACE TO ROUTE CONDUITS TO CONTROL ROOM AND OTHER END POINTS AS REQUIRED.
 - EXISTING LUMINAIRE AND 30' POLE TO REMAIN.
 - EXISTING DIRECT BURY CONDUIT AND CONDUCTORS TO REMAIN. (1\"/>



PK2-ES-111

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL SITE PLAN AREA 11

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 218 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER DATE 12/03/2020 PRINT DCE NAME: Andrea Demich RCE# C70321	DATE 12/03/2020 RCE# C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CHANGED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	APPROVED <i>Andrea Demich</i>
DATE 1/15/21	FILM	260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
DATE STARTED		40381-2218-D
DATE COMPLETED		

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HARBERT
No. E21673
ELECTRICAL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/05/2021

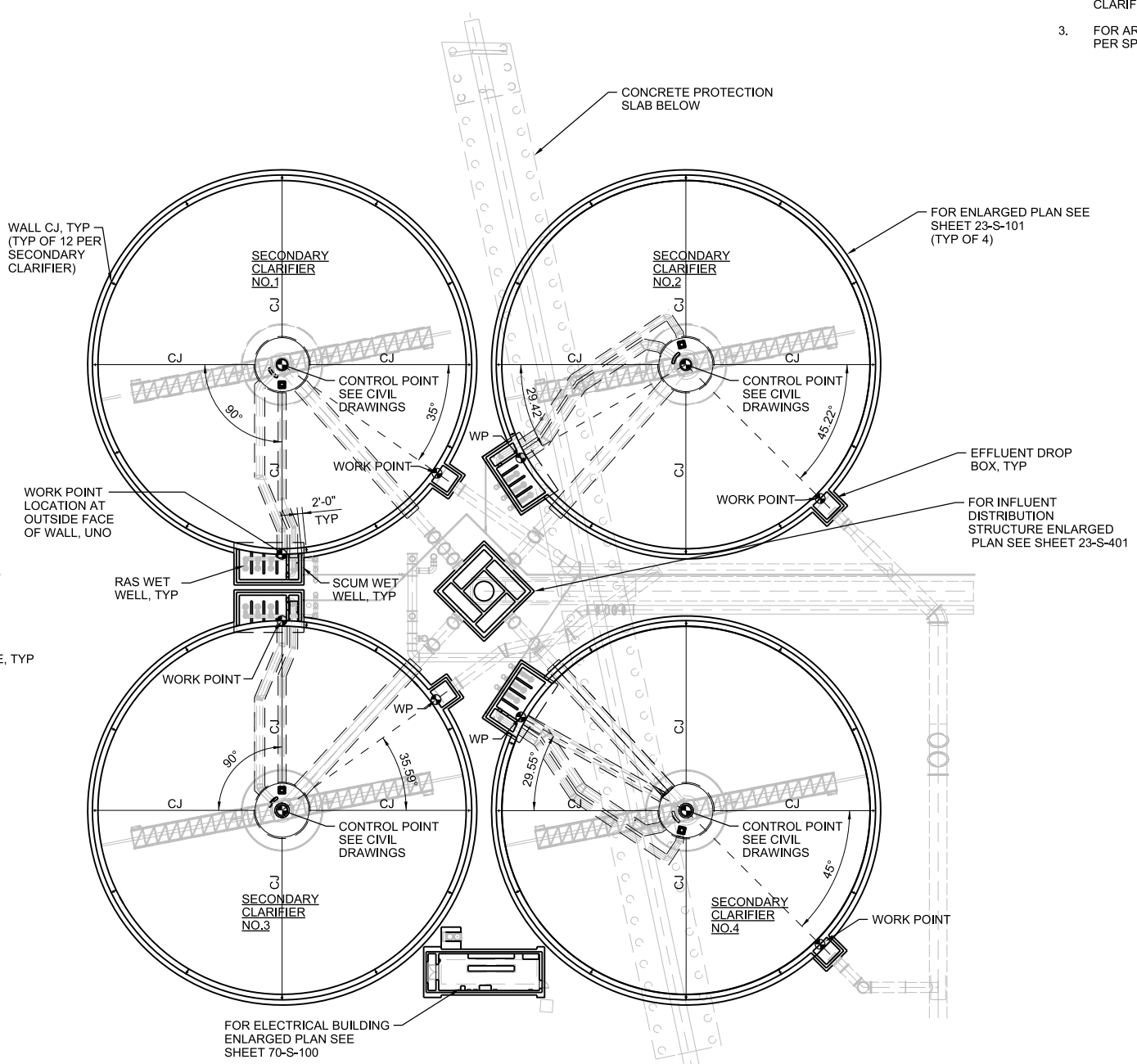
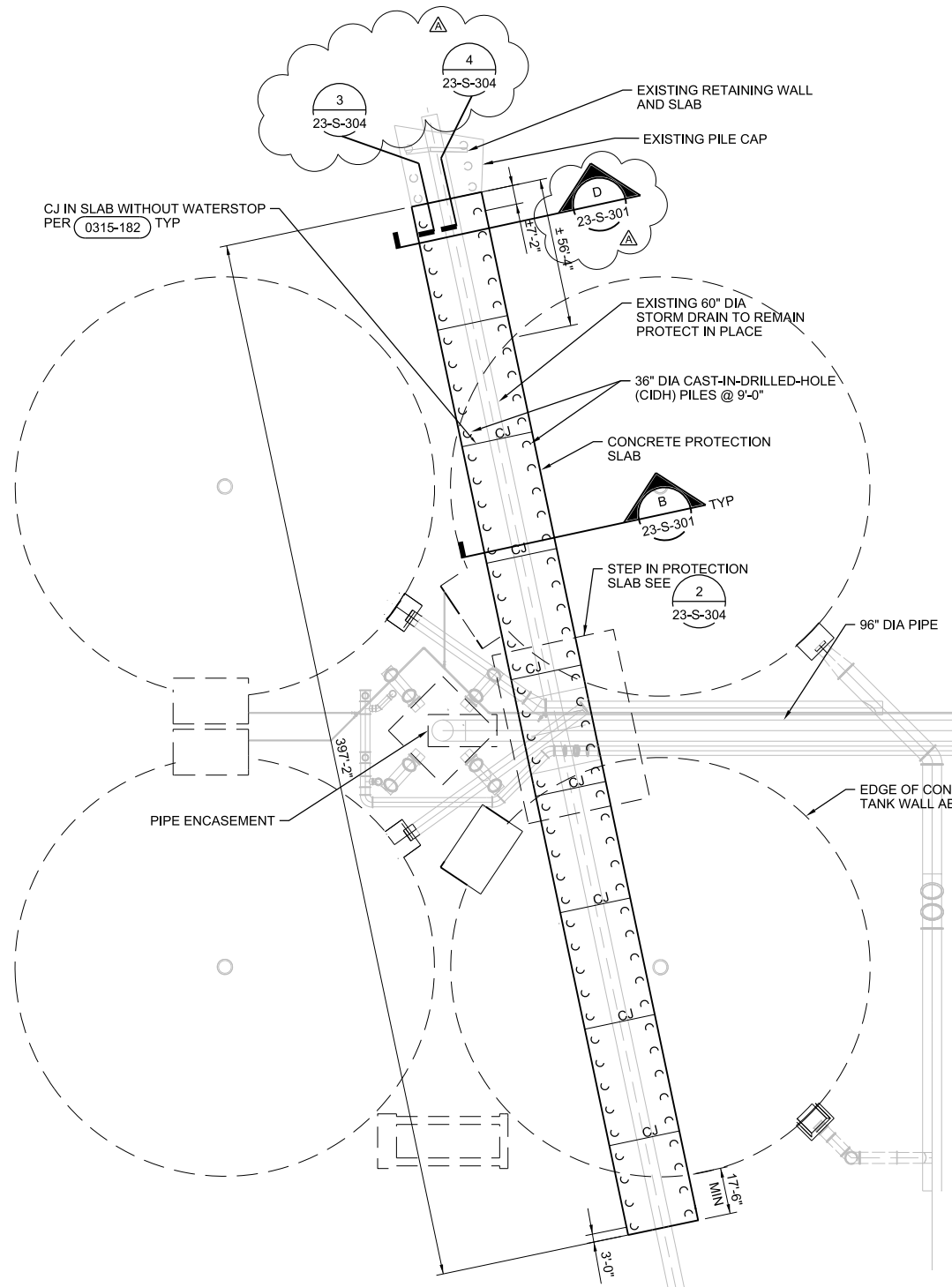
CONTRACTOR _____
INSPECTOR _____

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

OVERALL PLAN NOTES:

- SEE CIVIL DRAWINGS FOR CONTROL POINT FOR LOCATION OF EACH INDIVIDUAL STRUCTURE.
- SEE MECHANICAL DRAWINGS FOR ORIENTATION OF SECONDARY CLARIFIERS.
- FOR AREAS THAT CANNOT ACHIEVE SUFFICIENT COMPACTION, USE CLSM PER SPECIFICATION SECTION 31 23 23.



PIPE PROTECTION SLAB FOUNDATION PLAN
1/32"=1'-0"

OVERALL FOUNDATION PLAN
1/32"=1'-0"

PK2-23-S-001

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION
STRUCTURAL SECONDARY CLARIFIERS OVERALL FOUNDATION PLAN

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 695 OF 1169 SHEETS				B-16149, S-17012 WBS B-15142
APPROVED: FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER		
PRINT DCE NAME Andrea Demich	RCE# C70321	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER		
DESCRIPTION Addendum A	BY CH	APPROVED <i>Andrea Demich</i>	DATE 1/15/21	
COORDINATE			260-1709	
COORDINATE			1900-6269	
COORDINATE			40381-2695-D	

CONSULTANT

KLEINFELDER
Bright people. Right Solutions.

550 West C Street Suite : 1200 San Diego, CA 92101
Tel. (619) 831-4600 Kleinfelder.com

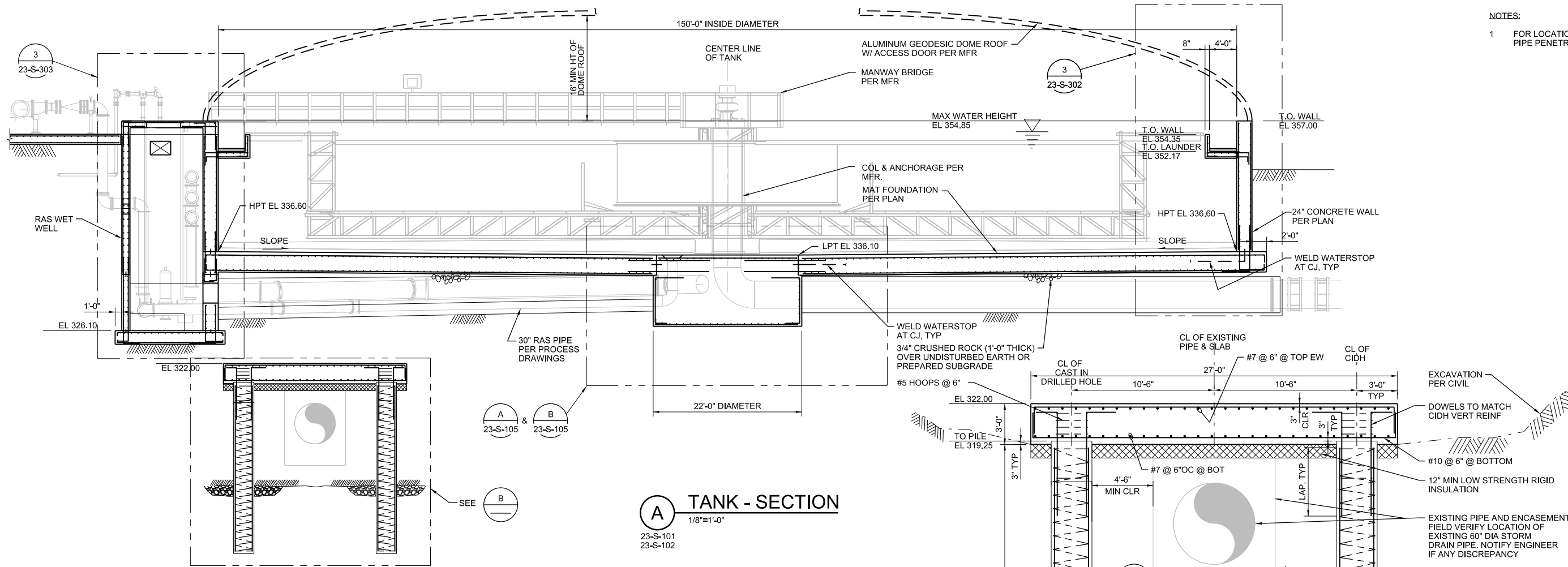
REGISTERED PROFESSIONAL ENGINEER
No. S3583
ANDREA DEMICH
STRUCTURAL ENGINEER
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/05/2021

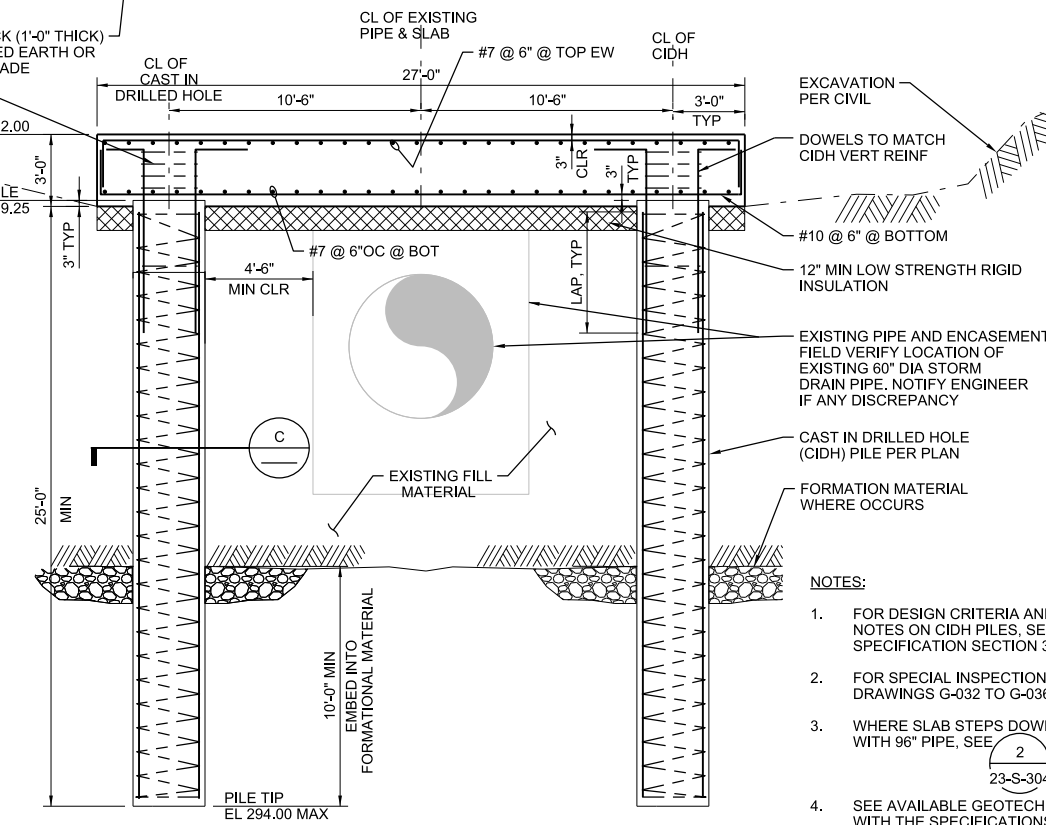
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED

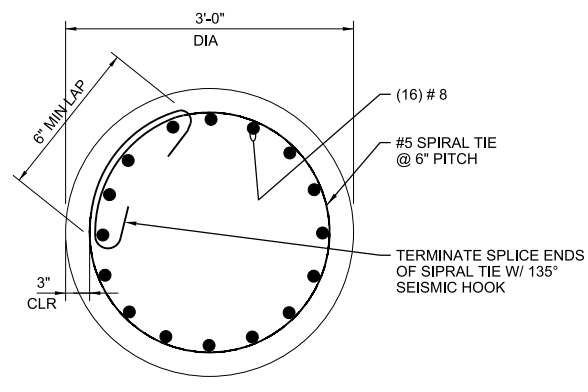
NOTES:
 1 FOR LOCATION & ELEVATION OF PIPE PENETRATIONS, SEE PROCESS DRAWING.



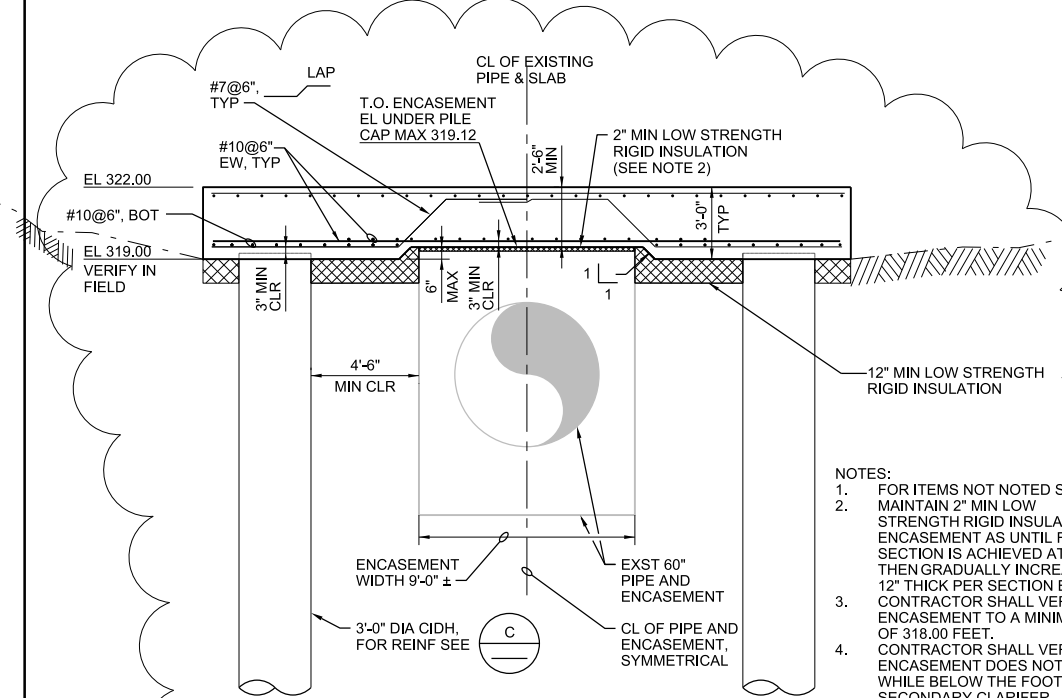
A TANK - SECTION
 1/8"=1'-0"
 23-S-101
 23-S-102



B PROTECTION SLAB - SECTION
 1/4"=1'-0"
 23-S-101
 23-S-304



C CIDH PILE - SECTION
 1"=1'-0"



D PROTECTION SLAB - AT PIPE ENCASEMENT
 1/4"=1'-0"
 23-S-101

NOTES:
 1. FOR ITEMS NOT NOTED SEE
 2. MAINTAIN 2" MIN LOW STRENGTH RIGID INSULATION ABOVE ENCASEMENT AS UNTIL FULL 3'-0" THICK SECTION IS ACHIEVED AT MIDSPAN OF SLAB. THEN GRADUALLY INCREASE INSULATION TO 12" THICK PER SECTION B.
 3. CONTRACTOR SHALL VERIFY TOP OF ENCASEMENT TO A MINIMUM ELEVATION OF 318.00 FEET.
 4. CONTRACTOR SHALL VERIFY THAT TOP OF ENCASEMENT DOES NOT EXCEED 318.00 FEET WHILE BELOW THE FOOTPRINT OF THE SECONDARY CLARIFIER.

- NOTES:
- FOR DESIGN CRITERIA AND GENERAL STRUCTURAL NOTES ON CIDH PILES, SEE DRAWINGS G-030 AND SPECIFICATION SECTION 31 63 29.
 - FOR SPECIAL INSPECTION REQUIREMENTS, SEE DRAWINGS G-032 TO G-036.
 - WHERE SLAB STEPS DOWN TO AVOID CONFLICT WITH 96" PIPE, SEE **2** 23-S-304
 - SEE AVAILABLE GEOTECHNICAL DATA INCLUDED WITH THE SPECIFICATIONS.
 - WHERE PIPE ENCASEMENT ENCLOSES INTO UNDERSIDE OF SLAB SEE **D**

PK2-23-S-301

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 702 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION STRUCTURAL SECONDARY CLARIFIERS SECTIONS		
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020	SUBMITTED BY MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME Andrea Demich	RCE# C70321	CHECKED BY THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED [Signature]	DATE 1/15/21	FIRM 260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
CONTRACTOR INSPECTOR	DATE STARTED DATE COMPLETED	40381-2702-D

CONSULTANT

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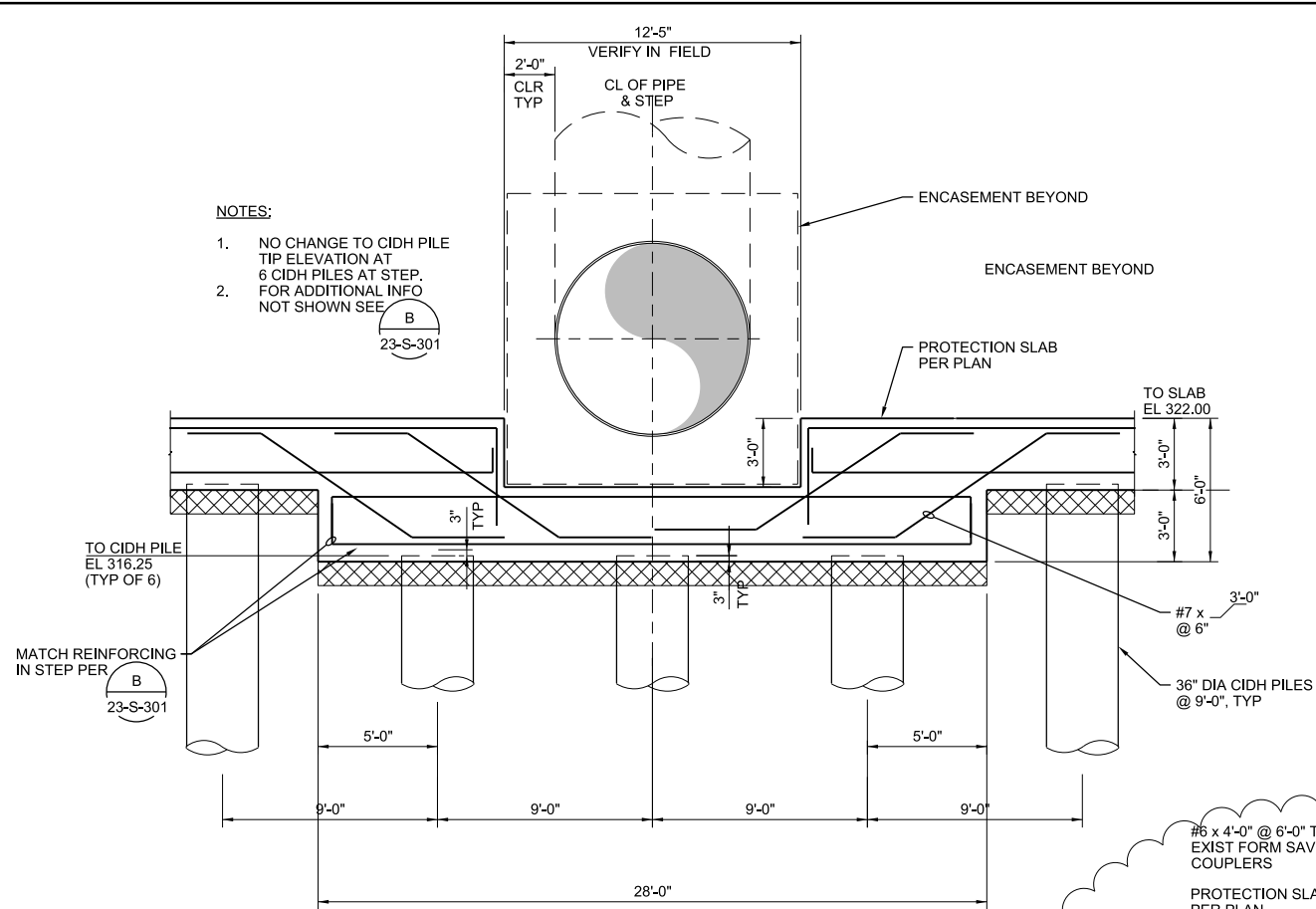
550 West C Street Suite : 1200 San Diego, CA 92101
Tel. (619) 831-4600 Kleinfelder.com

REGISTERED PROFESSIONAL ENGINEER
MARC CHIRUNG
 No. S3583
 STRUCTURAL
 STATE OF CALIFORNIA
 DIGITALLY SIGNED: 01/05/2021

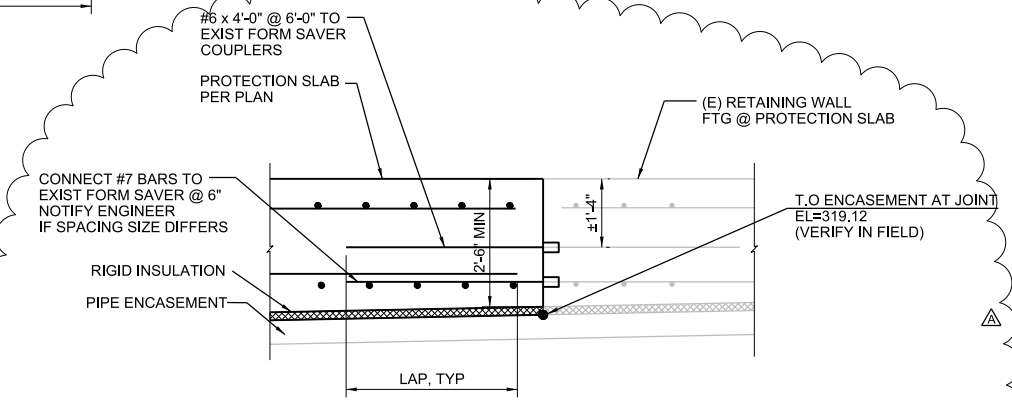
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 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

NOTES:

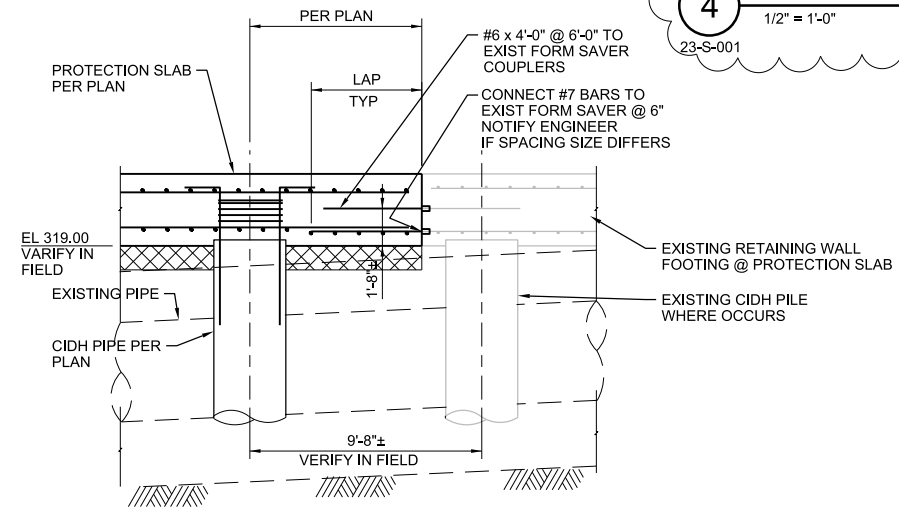
1. NO CHANGE TO CIDH PILE TIP ELEVATION AT 6 CIDH PILES AT STEP. FOR ADDITIONAL INFO NOT SHOWN SEE **(B)** 23-S-301
- 2.



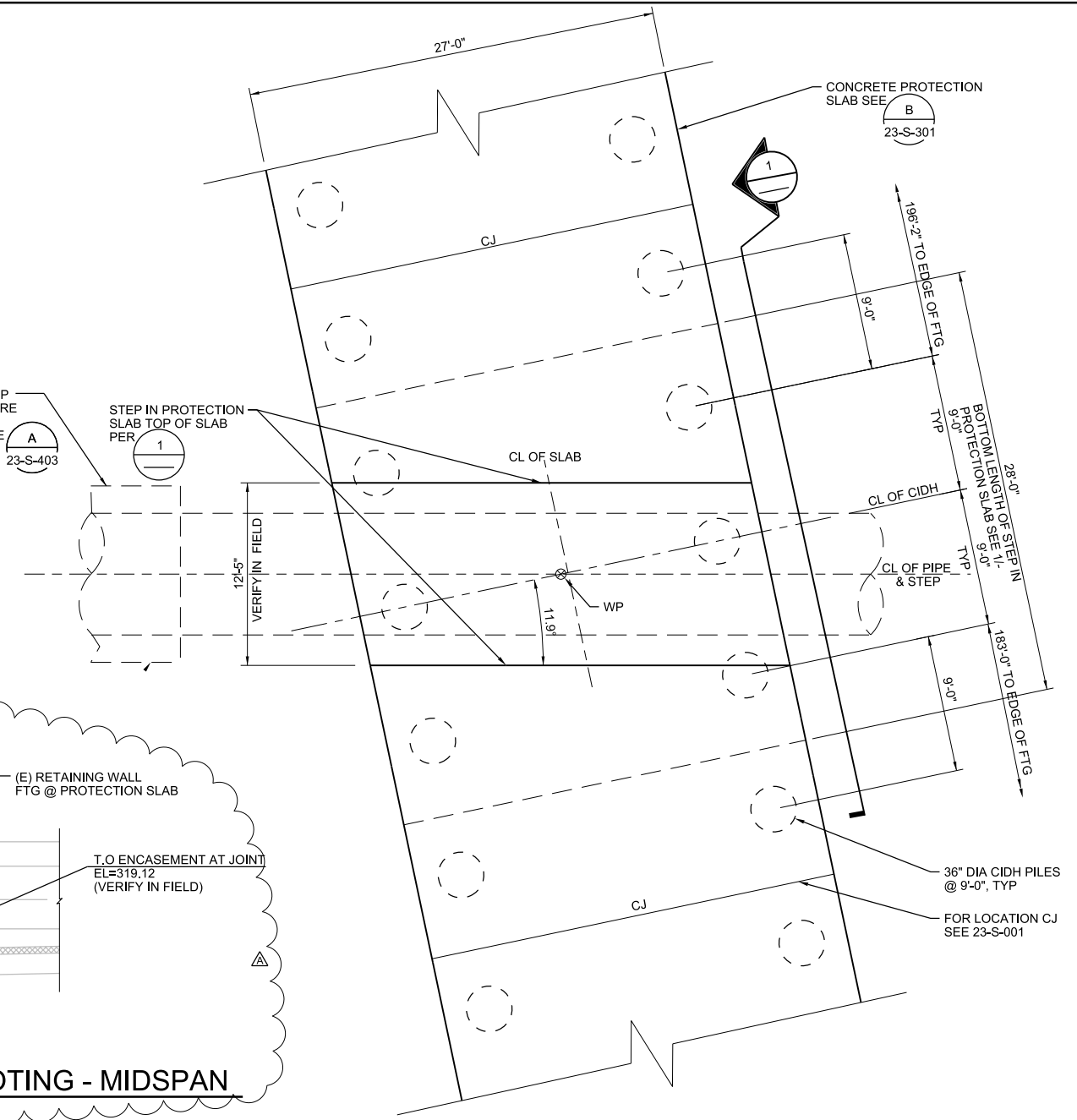
1 STEP IN PROTECTION SLAB
1/4" = 1'-0"



4 PROTECTION SLAB AT EXISTING FOOTING - MIDSPAN
1/2" = 1'-0"



3 PROTECTION SLAB AT EXISTING FOOTING
1/4" = 1'-0"



2 PARTIAL ENLARGED STEP IN PROTECTION SLAB FOUNDATION PLAN
3/16" = 1'-0"

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

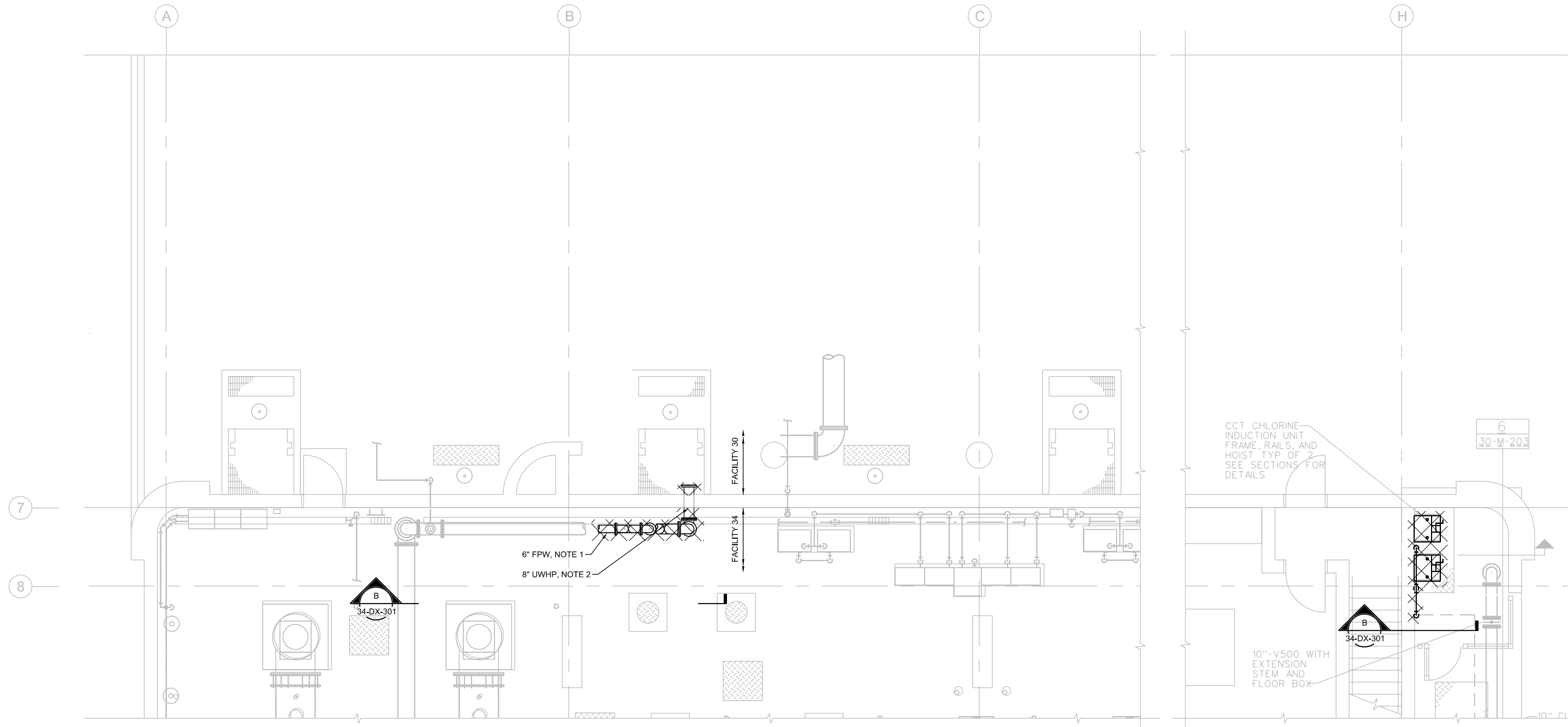


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DIGITALLY SIGNED: 01/05/2021

APPROVED: <i>Thien-Long Tran</i> FOR CITY ENGINEER PRINT DCE NAME: Thien-Long Tran DATE: 12/03/2020 RCE#: C70321		B-16149, S-17012 WBS B-15142
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 705 OF 1169 SHEETS		SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION Addendum A	BY CH	APPROVED <i>Thien-Long Tran</i>
		DATE 1/15/21
		FILM
		PROJECT ENGINEER THIEN-LONG TRAN
		260-1709 CCS27 COORDINATE
		1900-6269 CCS83 COORDINATE
CONTRACTOR INSPECTOR	DATE STARTED DATE COMPLETED	40381-2705-D



- NOTES:**
1. DE-ENERGIZE 30FV601, AND DEMOLISH WIRING BACK TO SOURCE. DEMOLISH 6"x8" REDUCER, SLEEVE VALVE, PIPE, AND FLOOR PIPE SUPPORT. DO NOT DEMOLISH WALL MOUNTED PIPE SUPPORTS. SEAL FLOOR PIPE WITH GROOVED COUPLING CAP.
 2. DEMOLISH 8" UWHP TO LIMITS SHOWN. THE 8" WALL OPENING WILL BE USED TO PASS THE 2" UWHP AND 1/2" SHC FEED LINES TO CCT SIDE OF WALL. AFTER INSTALLING PIPING, PLUG WALL OPENING PER SECTION E NOTE 2 DRAWING 34-D-301.

LEGEND:


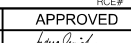
 TO BE DEMOLISHED

 **GROUND LEVEL PLAN**
3/8"=1'-0"



PK2-34-DX-112

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
PROCESS DEMOLITION
EFFLUENT PUMP STATION
GROUND LEVEL PLAN - AREA B

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 794 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED:  FOR CITY ENGINEER Andrea Demich	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	RCE#	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	
		DATE
		1/15/21
		FIRM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
		40381-2794-D

CONSULTANT



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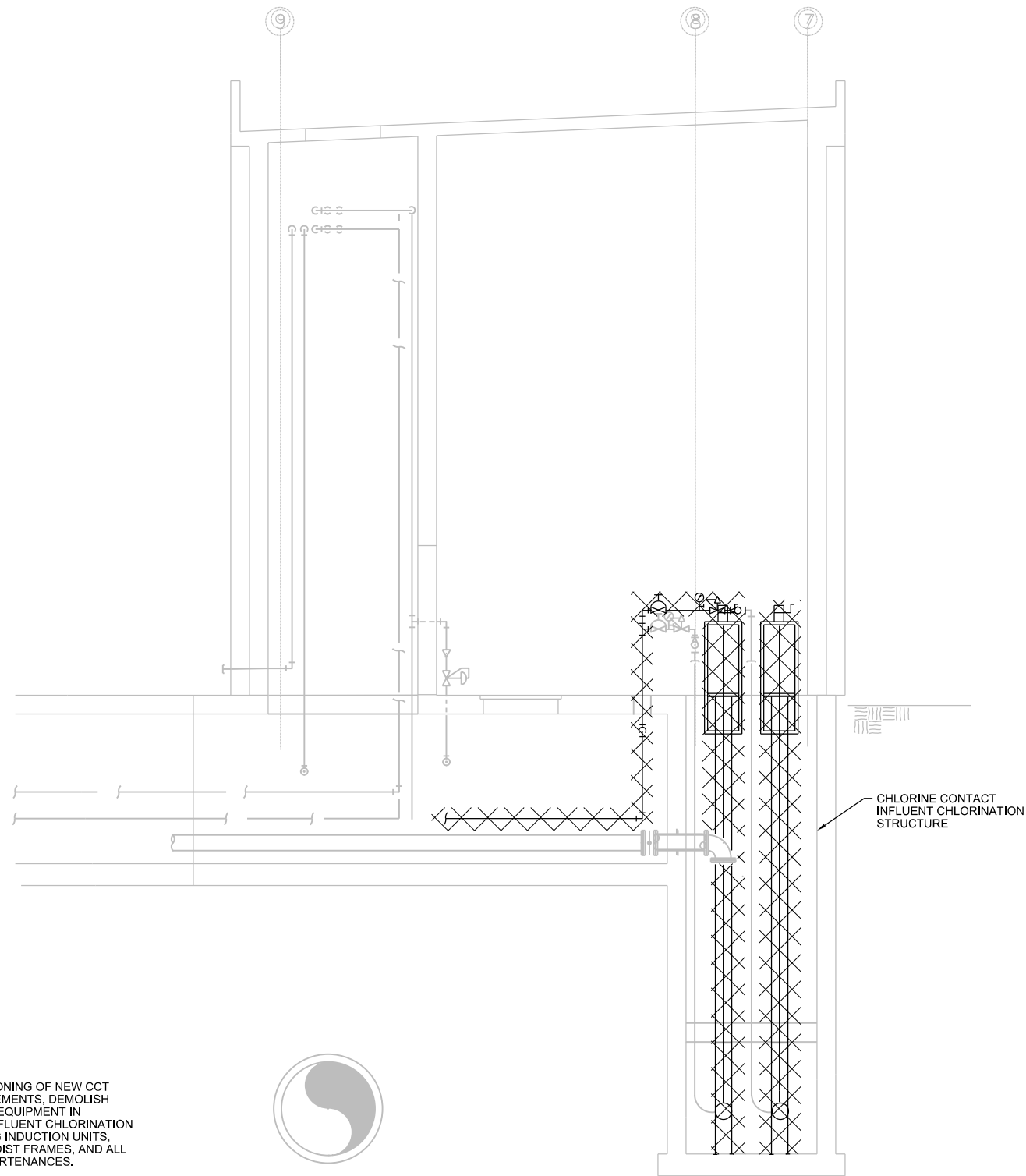
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APPROVED PROFESSIONAL ENGINEER

DIGITALLY SIGNED: 01/05/2021

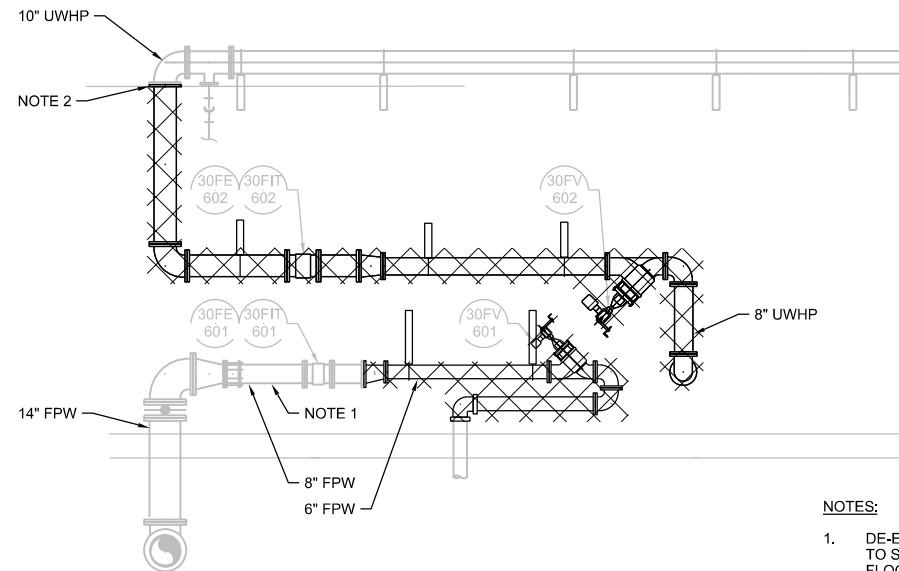
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____



NOTES:

1. FOLLOWING COMMISSIONING OF NEW CCT DISINFECTION IMPROVEMENTS, DEMOLISH SHC FEED AND MIXING EQUIPMENT IN CHLORINE CONTACT INFLUENT CHLORINATION STRUCTURE INCLUDING INDUCTION UNITS, GUIDE RAILS, HOIST, HOIST FRAMES, AND ALL FEED PIPING AND APPURTENANCES.

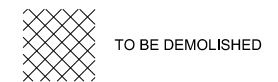
A SECTION
1/4"=1'-0"
34-DX-112



NOTES:

1. DE-ENERGIZE 30FV601, AND DEMOLISH WIRING BACK TO SOURCE. DEMOLISH 6"x8" REDUCER, PIPE, AND FLOOR PIPE SUPPORT. DO NOT DEMOLISH WALL MOUNTED PIPE SUPPORTS. SEAL FLOOR PIPE WITH GROOVED COUPLING CAP.
2. ADD BLIND FLANGE TO ISOLATE.

LEGEND:



B SECTION
1/4"=1'-0"
34-DX-112

CHLORINE CONTACT INFLUENT CHLORINATION STRUCTURE

PK2-34-DX-301

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION PROCESS DEMOLITION EFFLUENT PUMP STATION SECTIONS																							
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 795 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142																					
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER																					
<table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> <th>FILM</th> </tr> </thead> <tbody> <tr> <td>Addendum A</td> <td>CH</td> <td><i>Andrea Demich</i></td> <td>1/15/21</td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	DESCRIPTION	BY	APPROVED	DATE	FILM	Addendum A	CH	<i>Andrea Demich</i>	1/15/21												260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE		
DESCRIPTION	BY	APPROVED	DATE	FILM																			
Addendum A	CH	<i>Andrea Demich</i>	1/15/21																				
CONTRACTOR: _____ INSPECTOR: _____		DATE STARTED: _____ DATE COMPLETED: _____																					
40381-2795-D																							

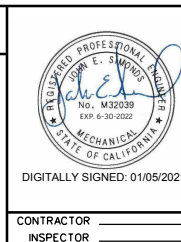
CONSULTANT

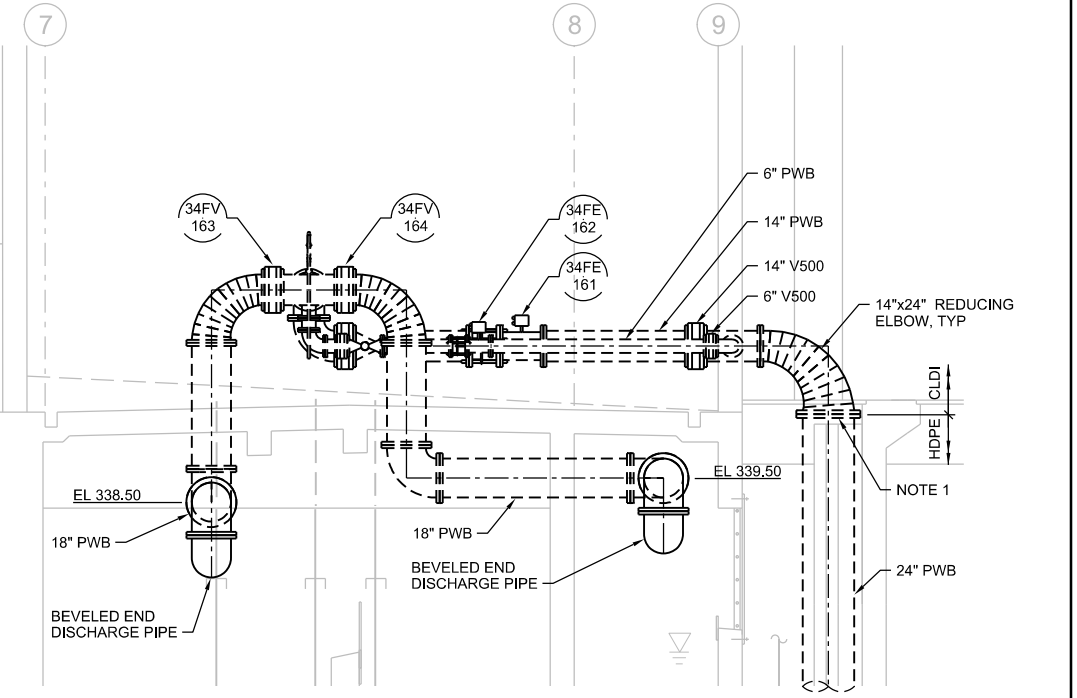
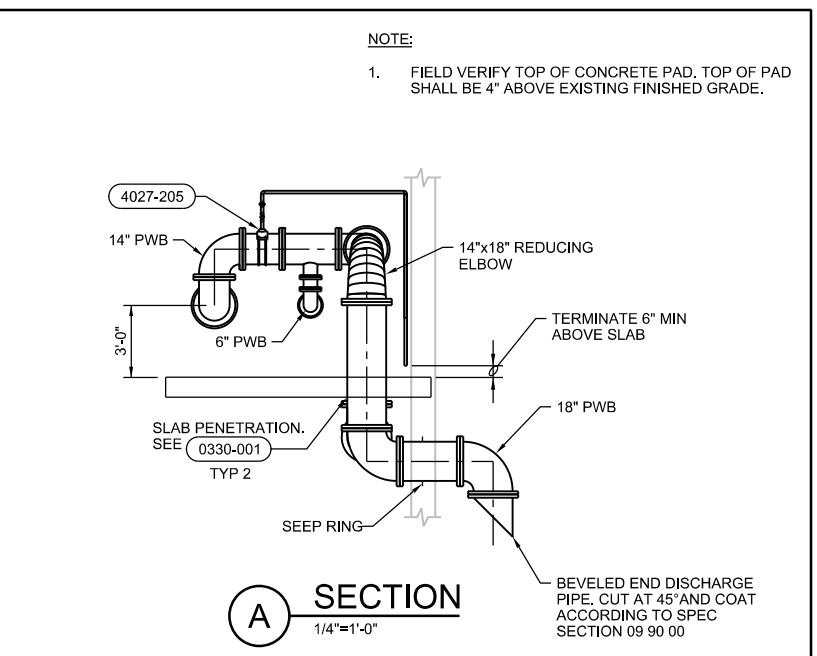
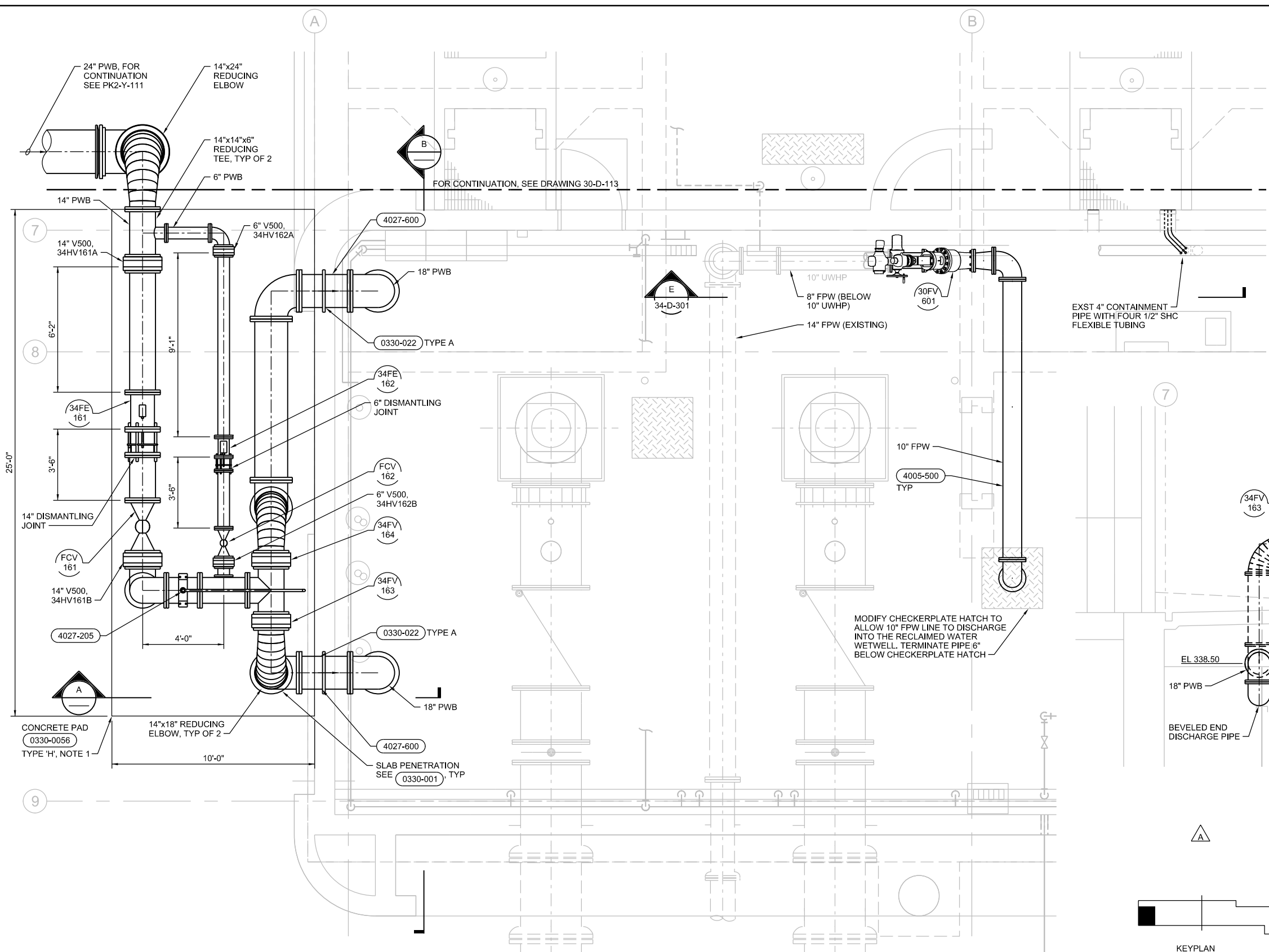
DIGITALLY SIGNED: 01/05/2021

WARNING

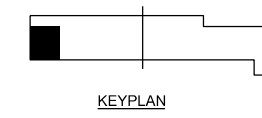
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GROUND LEVEL PLAN - AREA A
3/8"=1'-0"



PK2-34-D-111

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
PROCESS
EFFLUENT PUMP STATION
GROUND LEVEL PLAN - AREA A

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 796 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER DATE: 12/03/2020 C79321	PROJECT MANAGER MONIKA SMO CZYNSKI	
PRINT DCE NAME: <i>Andrea Demich</i> RCE#	PROJECT ENGINEER THIEN-LONG TRAN	
DESCRIPTION A	BY CH	APPROVED <i>Andrea Demich</i>
		DATE FILM 1/15/21
		260-1709
		1900-6269
		40381-2796-D

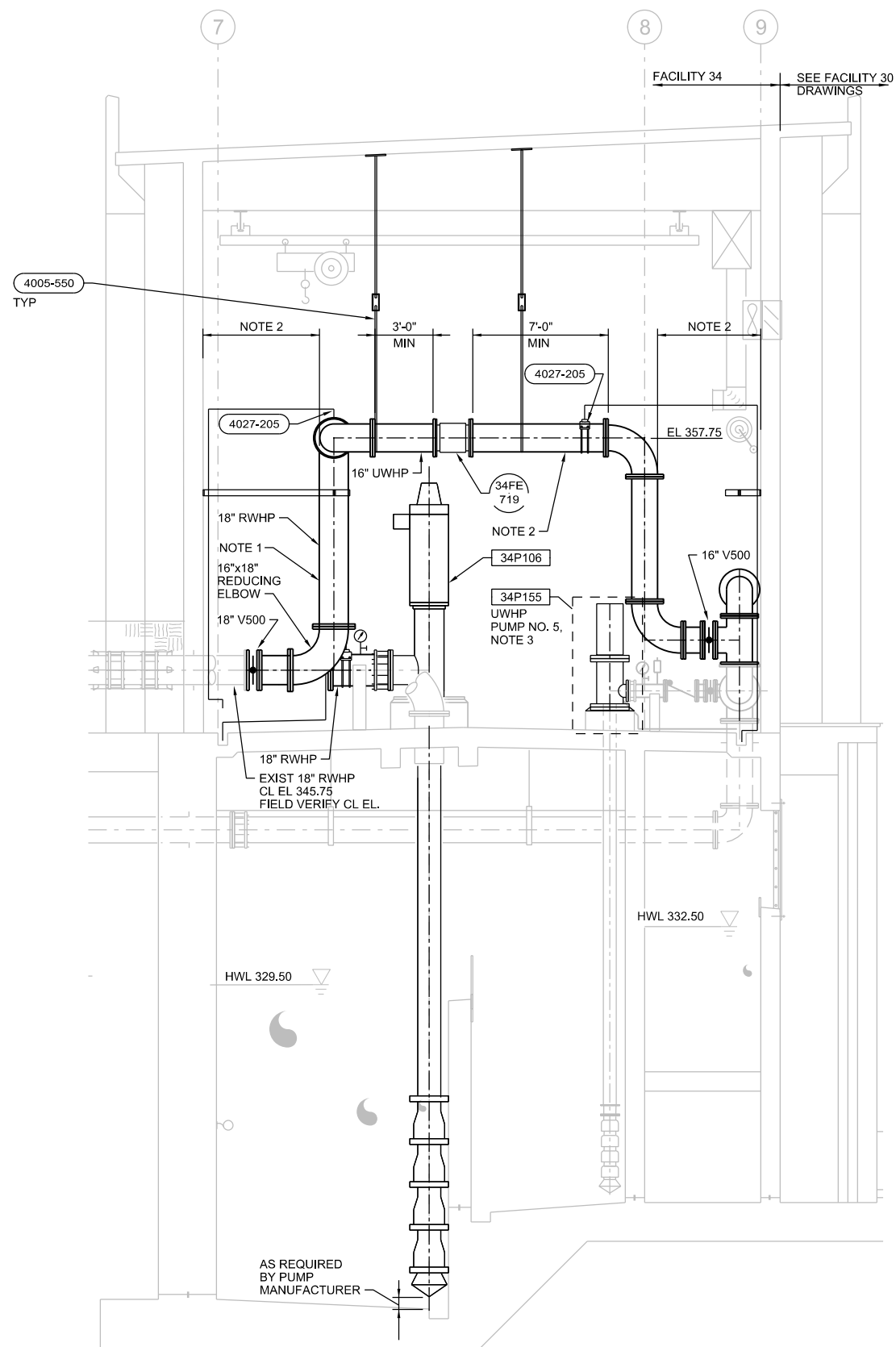
CONSULTANT

DIGITALLY SIGNED: 01/05/2021

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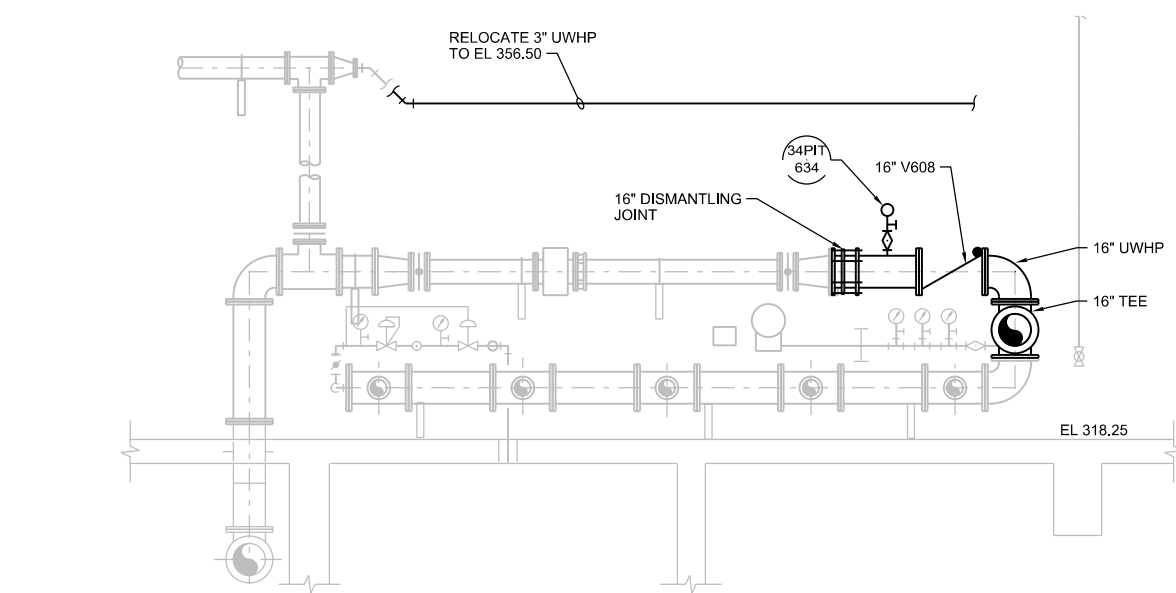
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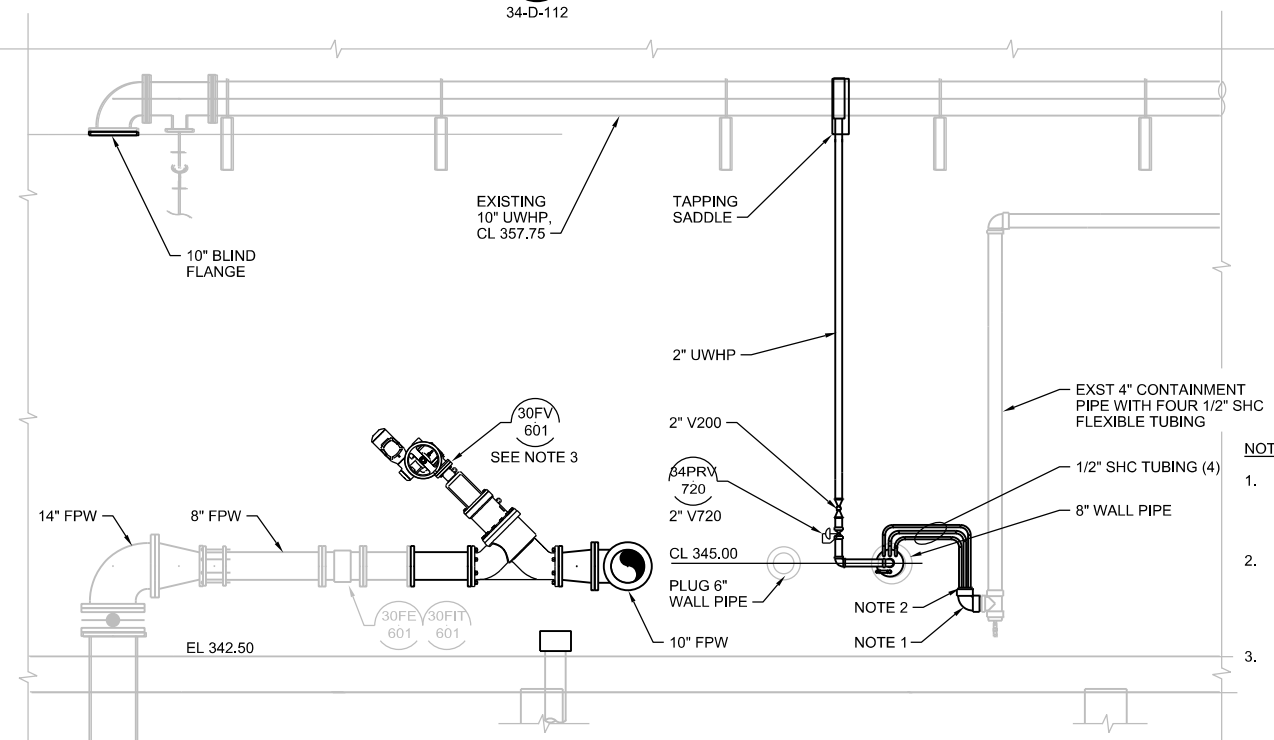


C SECTION
1/4"=1'-0"
34-D-112

- NOTES:**
- RWHP PIPING IN UWHP/ RWHP CROSS CONNECTION SHALL BE CLDI.
 - FIELD LOCATE OVERHEAD BYPASS PIPING TO ENSURE IT DOES NOT INTERFERE WITH EXISTING CONDUIT.
 - EQUIPMENT TO BE REFURBISHED. SEE SPECIFICATION SECTION 43 01 20, EQUIPMENT REHABILITATION-GENERAL.



D SECTION
1/4"=1'-0"
34-D-112



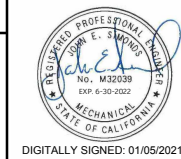
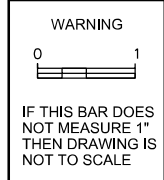
E SECTION
3/8"=1'-0"
34-D-111

- NOTES:**
- REPLACE ELBOW AND FOAM PLUG TO REMOVE ABANDONED AND INSTALL NEW FEED LINES. PROVIDE FOAM STOP BY INSERTING CARDBOARD CUT TO FIT WITHIN CONTAINMENT PIPE AND ALLOW THE INNER TUBING TO PASS THROUGH.
 - PLUG END CONTAINMENT AND WALL OPENINGS AS FOLLOWS:
 - POURABLE TWO PART, POLYURETHANE FOAM TYPE INSULATION WHICH CURES TO LOW-DENSITY RIGID POLYURETHANE INSULATION.
 - AGED K-VALUE OF 0.15 AT 77°F.
 - 1.8 TO 2.0 LBS/CU FT MINIMUM DENSITY.
 - PROVIDE 8" SLEEVE VALVE WITH 8" FLANGED CONNECTION UPSTREAM, 10" FLANGED CONNECTION DOWNSTREAM, AND MODULATING ELECTRIC ACTUATOR PER SPEC SECTION 40 27 02, PROCESS VALVES AND OPERATORS. SLEEVE VALVE SHALL BE BAILEY VALVE, MODEL B-5. 30FV601 SHALL BE CAPABLE OF CONTROLLING FLOW OVER A RANGE OF 750-4200 GPM WITH A SUPPLY PRESSURE OF 110 PSIG.

PK2-34-D-301

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
PROCESS EFFLUENT PUMP STATION SECTIONS

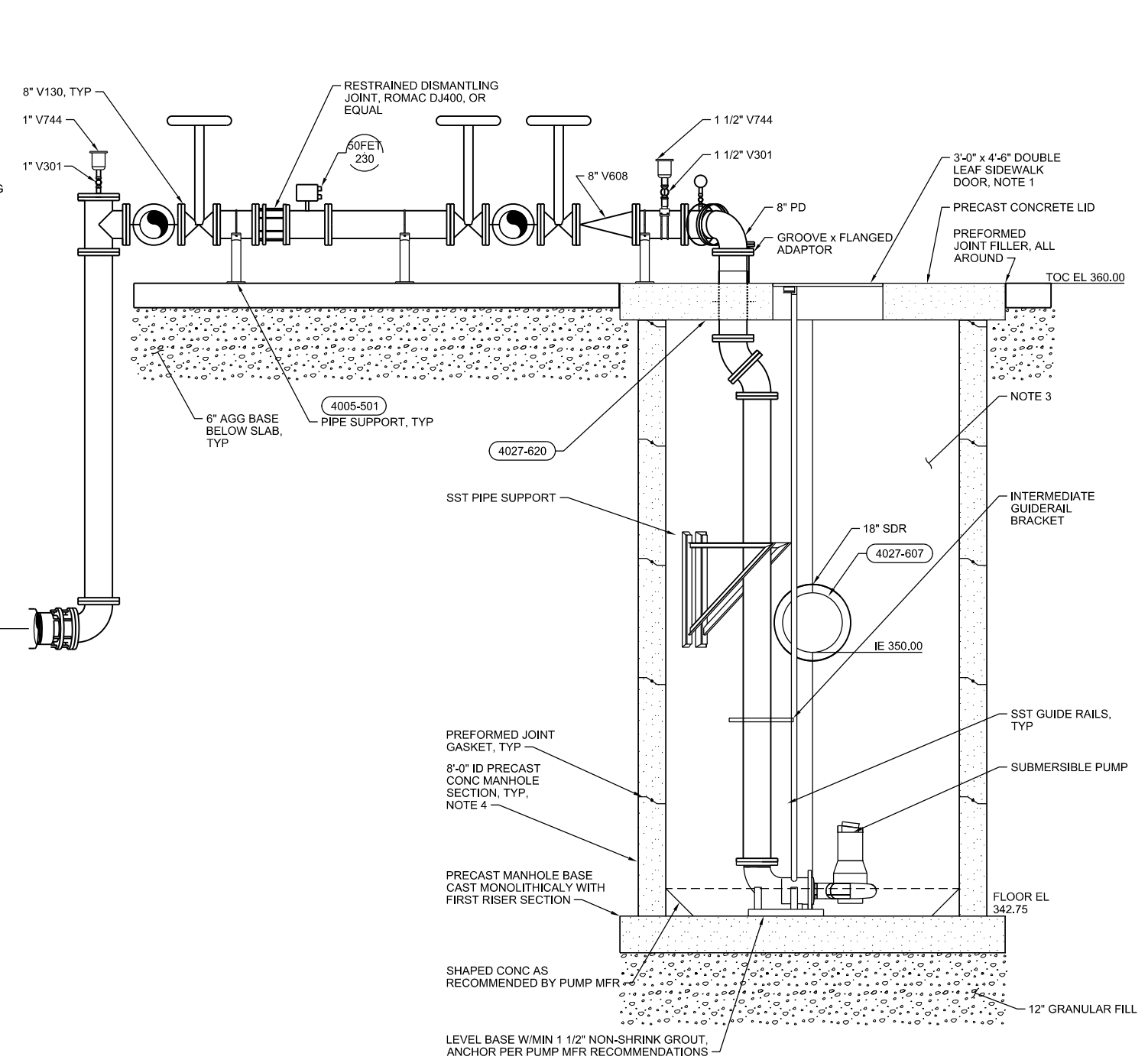
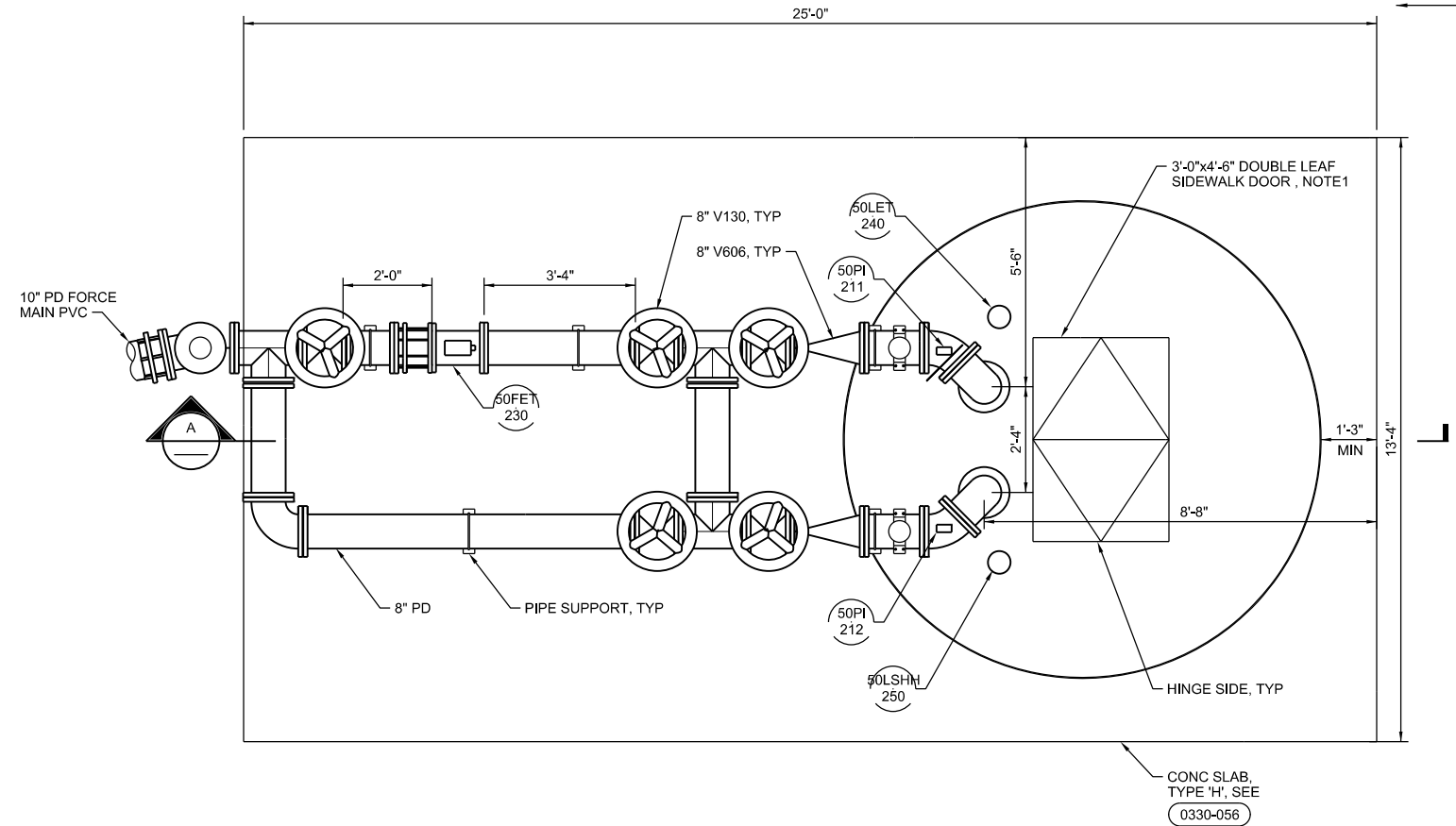
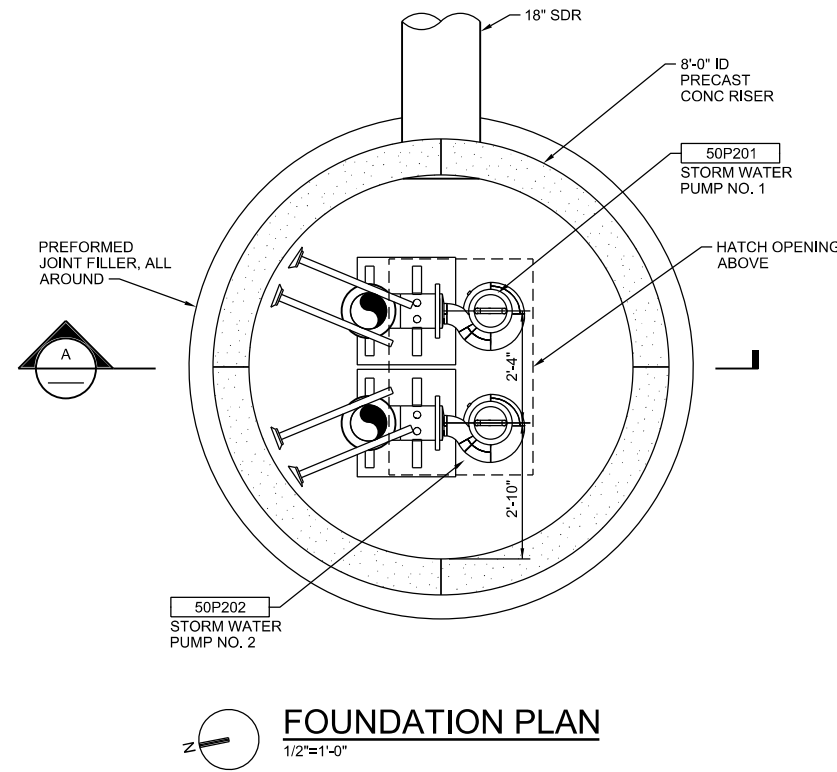
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 798 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	RCE#	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED	DATE	FIRM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-2798-D
INSPECTOR	DATE COMPLETED	



DIGITALLY SIGNED: 01/05/2021

NOTES:

- DOUBLE-LEAF ALUMINUM ACCESS DOOR WITH ALUMINUM OSHA FALL PROTECTION GRATING AND TYPE 316 HARDWARE. DESIGN FOR 300 PSF LIVE LOAD. MANUFACTURER AND PRODUCT: BILCO CO., SERIES JD-AL, OR EQUAL.
- COORDINATE HATCH LOCATION AS REQUIRED TO PERMIT INSTALLATION AND REMOVAL OF PUMPS.
- ALL CONCRETE ANCHORS WITHIN THE WETWELL SHALL BE 316 SST, ADHESIVE TYPE.
- CONCRETE MANHOLE IN ACCORDANCE WITH SPECIFICATION SECTION 33 05 13.



A SECTION
1/2"=1'-0"

PK2-50-D-100

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
PROCESS
STORM WATER PUMP STATION
PLANS AND SECTION

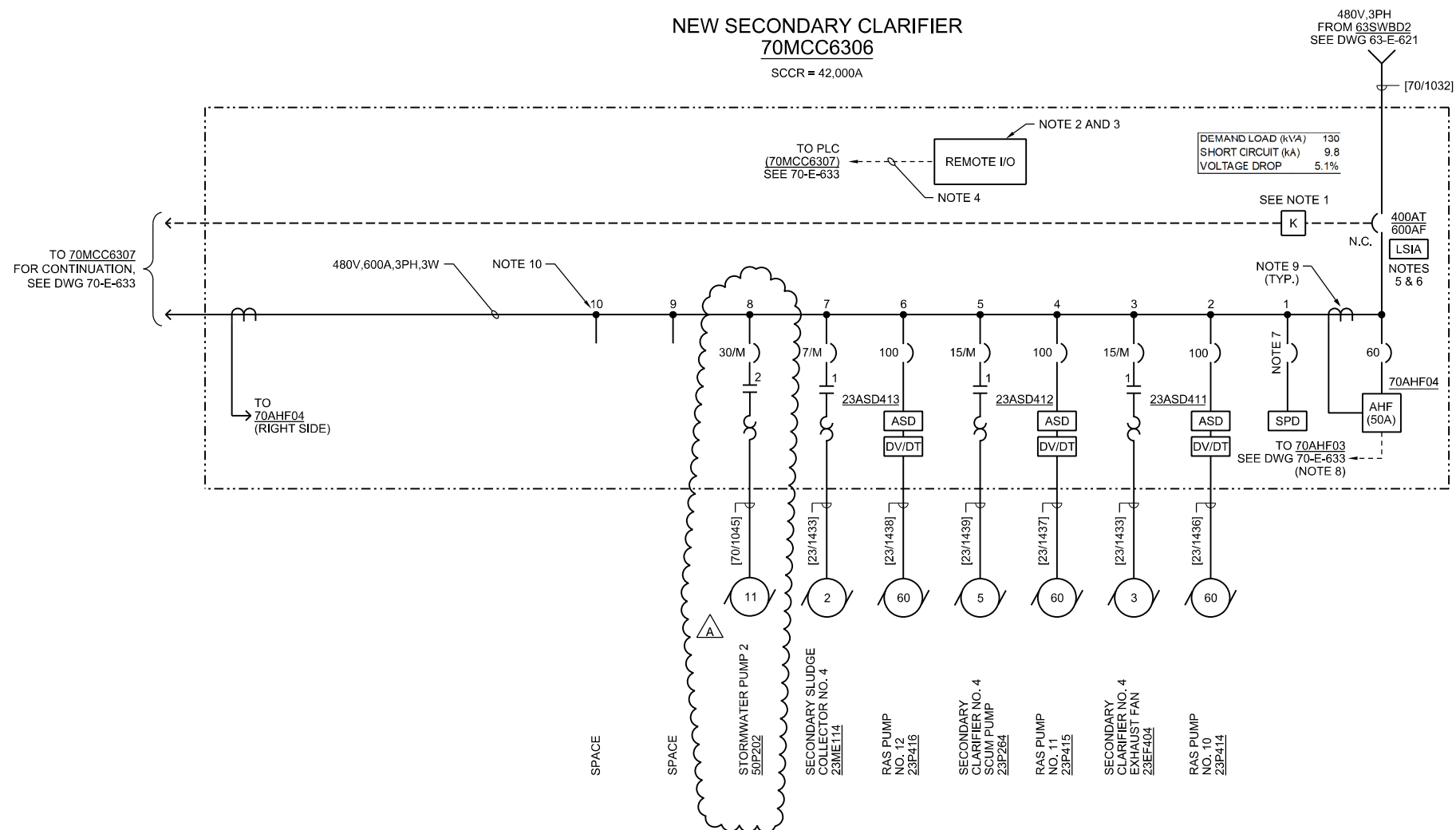
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 806A OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER <i>Andrea Demich</i> DATE 12/03/2020 C79321	PROJECT MANAGER MONIKA SMOCZYNSKI	
PRINT DCE NAME RCE#	PROJECT ENGINEER THIEN-LONG TRAN	
DESCRIPTION Addendum A	BY CH	APPROVED <i>Andrea Demich</i>
		DATE 1/15/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-2806-D
INSPECTOR	DATE COMPLETED	

CONSULTANT

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PROFESSIONAL ENGINEER
ANDREW E. SIMPSON
No. M32039
Exp. 6-30-2022
MECHANICAL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 01/05/2021

NEW SECONDARY CLARIFIER
70MCC6306
 SCCR = 42,000A



GENERAL NOTES:

- A. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS. SEE DWG (E-700 SERIES).
- B. FOR PANEL SCHEDULES, SEE DWG (E-700 SERIES).
- C. FOR MOTOR CONTROL DIAGRAMS, SEE DWG (E-800 SERIES).

NOTES:

1. KEY INTERLOCKED SO THAT ONE BREAKER MUST BE OPEN.
2. PROVIDE PLC AND RELATED NETWORK EQUIPMENT AS SPECIFIED.
3. CONNECT NETWORKED COMPONENTS VIA ETHERNET SWITCH PER SPECIFICATIONS.
4. ETHERNET IP CAT 6 CABLE.
5. POWER MONITORING DATA WILL BE OBTAINED VIA CIRCUIT BREAKER TRIP UNITS THAT WILL BE NETWORK CONNECTED TO THE DCS.
6. ETHERNET TRANSLATOR NETWORK CONNECTED TO CIRCUIT BREAKER TRIP UNITS.
7. SIZE BREAKER PER MCC MANUFACTURER'S RECOMMENDATION.
8. PROVIDE COMMUNICATIONS LINK BETWEEN ACTIVE HARMONIC FILTER UNIT (AHF) LOCATED ON THE OPPOSITE SIDE OF THE TIE BREAKER. COMMUNICATIONS SHALL ALLOW BOTH FILTERS TO OPERATE IN PARALLEL ON A COMMON BUS WHEN THE TIE IS CLOSED. PROVIDE MANUFACTURER'S RECOMMEND COMMUNICATION CABLING AND ROUTE INTERNAL TO THE MCC.
9. PROVIDE NUMBER OF CT's AS REQUIRED BY MANUFACTURER, TWO MINIMUM.
10. PROVIDE ADDITIONAL SPACES AS REQUIRED TO FILL UP AVAILABLE VERTICAL SECTION SPACE.

PK2-70-E-634

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL
NEW SECONDARY CLARIFIER MCC
ONLINE

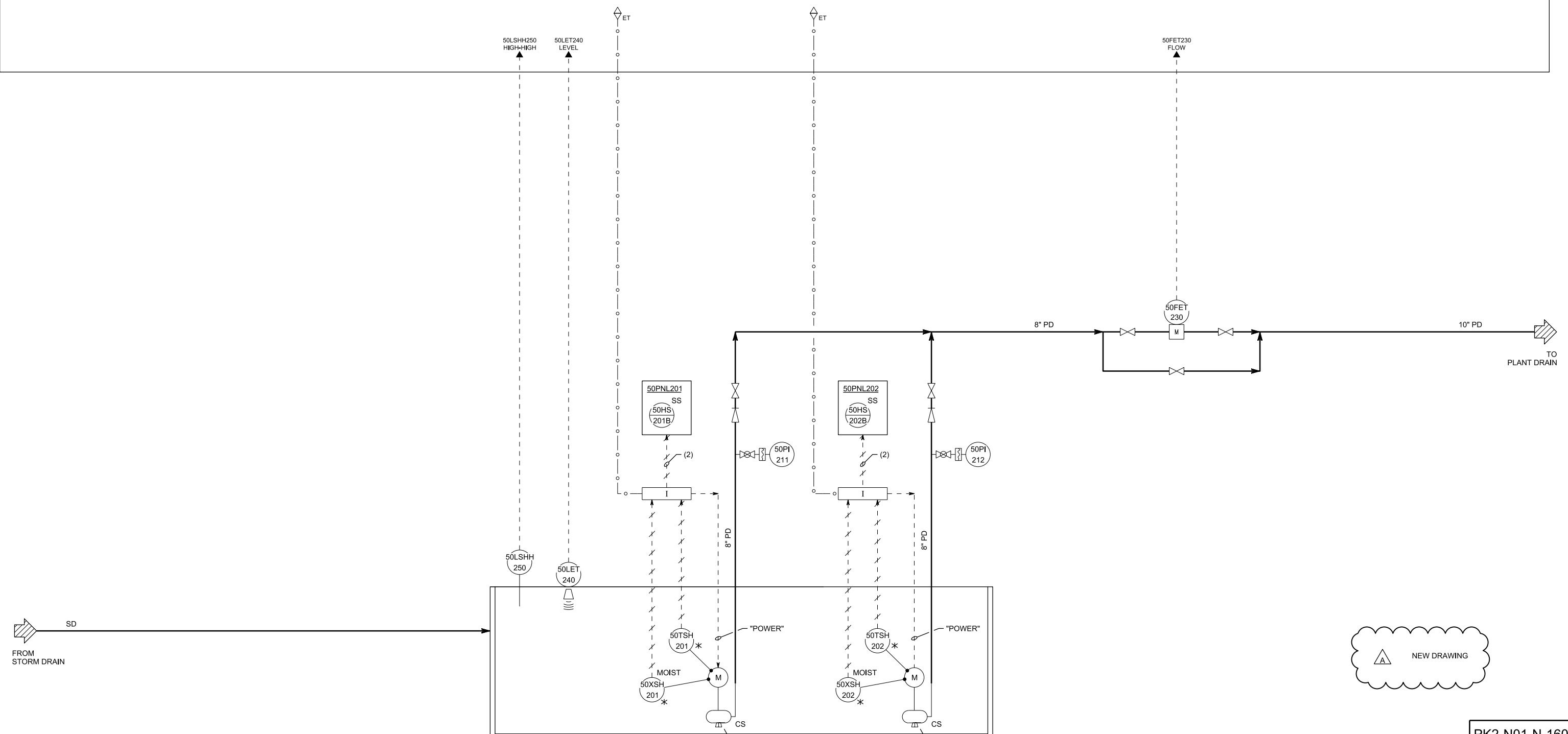
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 927 OF 1169 SHEETS			B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER	DATE 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER	
PRINT DCE NAME: Andrea Demich	RCE# C70321	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER	
DESCRIPTION	BY	APPROVED	DATE
Addendum A	CH	<i>Andrea Demich</i>	1/15/21
260-1709			1900-6269
DATE STARTED			DATE COMPLETED
CONTRACTOR			40381-2927-D
INSPECTOR			

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
 STEPHEN HANSEN
 No. E21673
 ELECTRICAL
 STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/05/2021

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



A NEW DRAWING

PK2-N01-N-160B

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 2 – NORTH CITY WRP EXPANSION
INSTRUMENTATION AND CONTROL
P&ID
STORM WATER
PUMP STATION

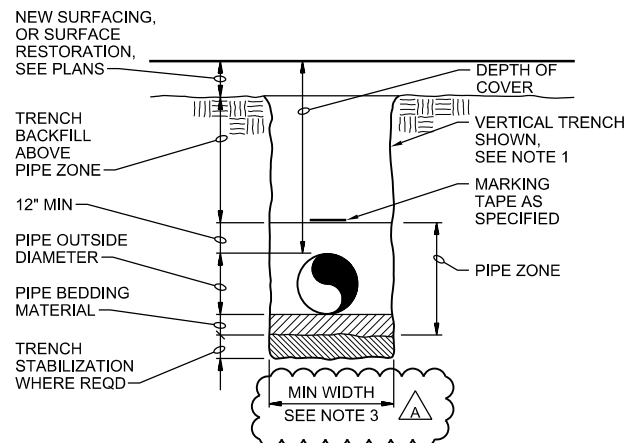
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET OF SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	RCE#	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
DATE	FILM	DATE
▲ Addendum A	CH	<i>Andrea Demich</i>
		1/15/21
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
		40381-21048-D

CONSULTANT

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



DIGITALLY SIGNED: 01/05/2021



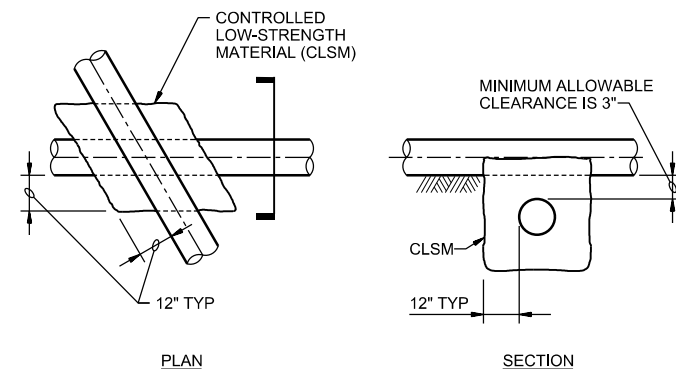
NOTES:

- CONTRACTOR SHALL SLOPE TRENCH WALLS OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS.
- DETAIL DOES NOT APPLY TO FOLLOWING BURIED PIPES:
 - FOR STORM DRAIN, SEE SDD-110
 - FOR IRRIGATION, SEE SDI-110
 - FOR SEWER, SEE SDS-110
 - FOR 1" AND 2" POTABLE WATER, SEE SDW-107
 - FOR POTABLE WATER MAINS, SEE SDW-110
 - FOR RECYCLED WATER MAINS, SEE SDRW-101
- FOR SMALLER PIPE, SEE SPECIFICATIONS FOR MINIMUM TRENCH WIDTH. FOR PIPE DIAMETERS 42-INCHES AND GREATER, MIN TRENCH WIDTH TO BE 24-INCHES EACH SIDE OF PIPE. FOR PIPE DIAMETERS 96-INCHES AND GREATER, MIN TRENCH WIDTH TO BE 36-INCHES EACH SIDE OF PIPE.

TYPICAL TRENCH

NTS

3123-110



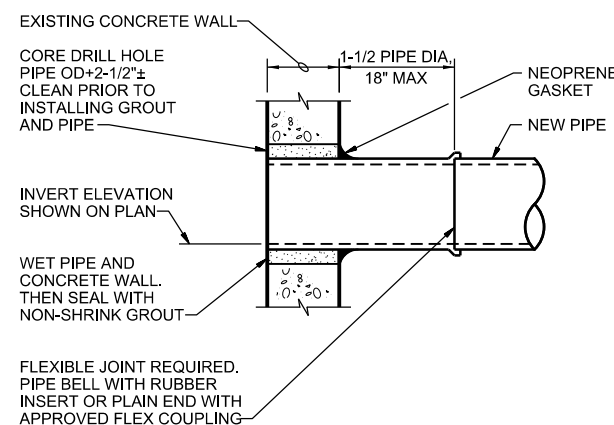
NOTES:

- CLSM SUPPORT IS REQUIRED:
- WHEN BOTH PIPELINES ARE NEW AND CLEARANCE BETWEEN THEM IS LESS THAN 12".
 - WHEN A NEW PIPELINE IS CROSSING OVER AN EXISTING PIPELINE AND THE CLEARANCE BETWEEN THEM IS LESS THAN 12".
 - AT ALL PIPE CROSSINGS WHERE A NEW PIPELINE IS CROSSING UNDER AN EXISTING PIPELINE.
 - REFER TO SPECIFICATION SECTION 31 23 23.15 FOR CLSM REQUIREMENTS.

TRENCH PIPE CROSSING

NTS

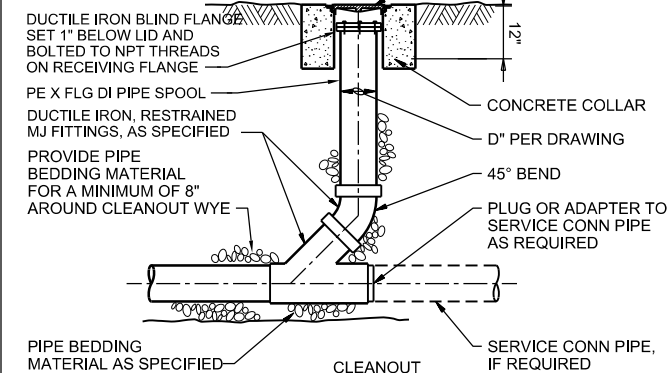
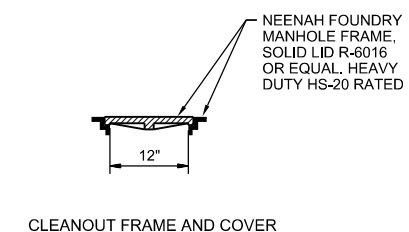
3123-120



PIPE CONNECTIONS

NTS

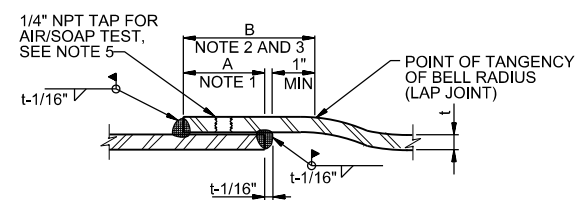
3305-730



EXTERIOR CLEANOUT

NTS

3305-740



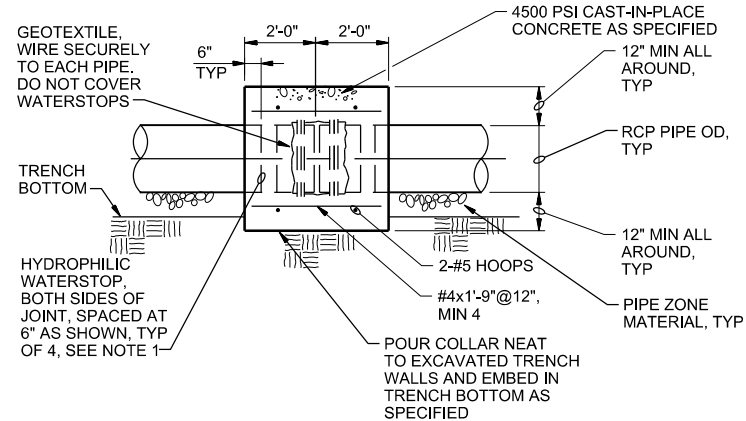
NOTES:

- DIMENSION "A" CORRESPONDS TO THE COMPLETED JOINT OVERLAP AFTER WELDING. DIMENSION "A" IS THE GREATER OF 3 INCHES OR 5L, MINIMUM FOR STANDARD JOINTS. INCREASE DIMENSION "A" FOR SPECIAL TEMPERATURE CONTROL JOINTS AS FURTHER DISCUSSED IN NOTE 3.
- PROVIDE THE MINIMUM OVERLAP DIMENSION "A" AND MAINTAIN THE INDICATED HOLDBACK FOR THE WELD AS REQUIRED FOR THE MINIMUM DIMENSION "B" FOR STANDARD JOINTS.
- INCREASE DIMENSION "B" BY 3 INCHES FOR SPECIAL TEMPERATURE CONTROL JOINTS AS FURTHER DISCUSSED. AT THE TIME OF INSTALLATION AND PRIOR TO WELDING, INSERT THE SPIGOT INTO THE LENGTHENED BELL TO PROVIDE "A" +3 INCHES MINIMUM OVERLAP. SEE SPECIFICATIONS FOR SPECIAL TEMPERATURE CONTROL JOINT WELDING REQUIREMENTS.
- CONFIGURATION FOR BELL AND SPIGOT LAP JOINTS SHOWN. CONFIGURATION ON BUTT STRAP JOINTS ARE SIMILAR.
- INSTALL TAP ON BELL. PERFORM AIR/SOAP TEST AND OTHER WELD TESTS AS REQUIRED IN ACCORDANCE WITH SPECIFICATIONS. PLUG TAP WITH WELDED PLUG AFTER COMPLETION OF SUCCESSFUL AIR/SOAP TEST.
- FABRICATE AND INSTALL JOINTS WITHIN THE TOLERANCES INDICATED. TOLERANCE REQUIREMENTS APPLY TO BOTH WELDS AND TO BOTH STRAIGHT AND DEFLECTED JOINTS.

LAP JOINT WELD

NTS

3305-903



SECTION

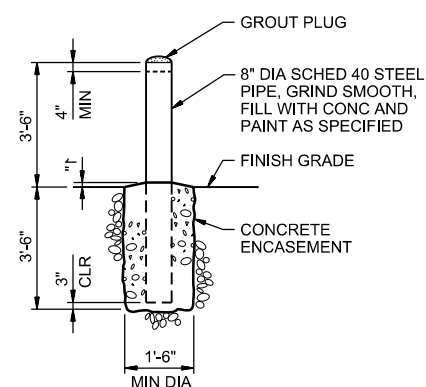
NOTES:

- SEE SPECIFICATIONS FOR HYDROPHILIC WATERSTOP REQUIREMENTS.
- FOR PIPE DIAMETER LESS THAN 48" AND NO MORE THAN 5 PSI PRESSURE.

CONCRETE CLOSURE COLLAR

NTS

3305-951



GUARD POST - EXTERIOR

NTS

3471-810

XX

XZX

XX

DSDS

XX

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



DIGITALLY SIGNED: 01/05/2021

CONTRACTOR INSPECTOR

GENERAL STANDARD DETAILS 3000 SERIES

PK2-SD-046

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 1133 OF 1169 SHEETS

APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020	PROJECT MANAGER MONIKA SMOCZYNSKI
PRINT DCE NAME Andrea Demich	RCE# C70321	CHECKED BY THIEN-LONG TRAN
DESCRIPTION Addendum A	BY CH	DATE 1/15/21
APPROVED [Signature]	DATE 1/15/21	FIRM 260-1709
		COORDINATOR 1900-6269
		COORDINATOR 40381-21133-D

DATE STARTED DATE COMPLETED

City of San Diego

CITY CONTACT: Stephen Samara, Principal Contract Specialist, Email: SSamara@sandiego.gov
Phone No. (619) 533-3619

ADDENDUM B



FOR

NORTH CITY WATER RECLAMATION PLANT EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE

BID NO.: K-21-1861-DBB-3
SAP NO. (WBS/IO/CC): B-21060, B-16140, S-17012
CLIENT DEPARTMENT: 2012
COUNCIL DISTRICT: 1
PROJECT TYPE: BO

BID DUE DATE:

**2:00 PM
MARCH 12, 2021**

CITY OF SAN DIEGO'S ELECTRONIC BIDDING SITE, PLANETBIDS

<http://www.sandiego.gov/cip/bidopps/index.shtml>

ENGINEER OF WORK

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineers:

Mark Elliott
1) Registered Engineer

2/10/2021
Date



DIGITALLY SIGNED: 2/10/2021

Andrea Demich
2) For City Engineer

2/11/2021
Date

Seal:



A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN **EXTENDED AS STATED ON THE COVER PAGE.**

B. NOTICE INVITING BIDS

1. To item 12, SUBCONTRACTING PARTICIPATION PERCENTAGES, sub-item 12.7., page 12, **DELETE** in its entirety and **SUBSTITUTE** with the following:

12.7. If the Bidder fails any of the following conditions, the Bid SHALL be declared non-responsive:

1. Submission of GFE documentation, as specified in AttachmentD.
 - a) Submit Good Faith Effort (GFE) documentation, saved in searchable Portable Document Format (PDF), demonstrating the Bidder made a good faith effort to conduct outreach to include DBE Subcontractors as required in this solicitation by 5 PM 4 Working Days after the Bid opening.
 - b) **All submittals in searchable PDF shall be submitted electronically within the prescribed time identified in the contract documents via PlanetBids by invitation to the point of contact named in the bid provided by the Contract Specialist to all bidders.**

2. Attending one of the Pre-bid Meetings.

C. BIDDER'S QUESTIONS

Q1. Page 2. Design Materials, "Bowl: ASTM A48 Class 30 Bowl Wear Rings: 400 series stainless steel" followed by "...Bowl and Suction Bell" As previously stated Bowl material is ASTM A48, Class 30, which is cast iron and so Suction Bell shall also be ASTM A48, Class 30. Please confirm.

- A1. Suction bell shall also be ASTM A48, Class 30.
- Q2. Page 2. Design and Materials, Line Shafting: Type 17-4PH SS and on the following page is Head Shaft Material: type 416SS. We can't seem to find the bowl shaft material but the NSF 61 certification of Pentair/Fairbanks is based on 416SS. Can you allow all the shaft materials to be the same? If yes, please indicate whether it's Type 17-4PH or 416SS.
- A2. Both Head Shaft and Bowl Shaft can either be Type 17-4PH SS or 416SS. See changes per this Addendum B.
- Q3. 2. Part 1.06D of section 01 31 13 Project coordination states you can not begin underground work for secondary clarifiers until grading work has been completed by the Early Sitework and Ozone BAC Relocation project. Please provide the complete date for this grading work.
- A3. The grading work by the Early Sitework and Ozone BAC Relocation project will already be completed prior to NTP for this project. This has been addressed as part of this Addendum B.
- Q4. 4. Part 1.06C of section 01 31 13 Project coordination states you can not begin construction of the new facility entrance road and landscaping until the NCPWF project completes the new roadway work for Eastgate Mall Rd. Please provide the completion date for this work.
- A4. This work item is no longer dependent on work being done as part of the NCPWF project and is reflected as part of the new Milestone 1A indicated in this addendum. This has been addressed as part of this Addendum B.
- Q5. 6. Part 2.01 of section 01 50 00, regarding construction manager's field offices. Please clarify if the contractor is to provide a field office for the construction manager and what the requirement for that office will be? If we are to take over the lease payment of an office supplied from a previous project, please provide the lease payment amount.
- A5. Field office requirements are addressed as part of this Addendum B.
- Q6. Walker Process Equipment is planning on bidding the above referenced job and in fact are one of the named manufacturers in Section 44-42-24.02 Rectangular Sedimentation Basin Mechanism. Walker has also been supplying circular collectors as specified in Section 44-42-24.03

Secondary Clarifier Mechanism for many years. We are not named in this Section, however we have a long history of supplying this equipment on jobs engineered by CH2M-Hill (now Jacobs) throughout the USA and are well qualified to supply the circular clarifiers specified on this project. I have attached a paper describing our history of supplying circular collectors to this industry. Please consider this an RFI to allow Walker Process Equipment to be on a level playing field with our competitors by making the below changes to the specification:

- A6. Substitutions (materials and/or suppliers) will need to meet the requirements of the specifications and plans, and requests for substitutions will be evaluated in accordance with SSP 4-6.
- Q7. 2.10 Bearings – Please add a sentence to the end of that paragraph stating “Wall bearings with epoxy painted cast iron housing with internal UHMW liner and grease fitting are also acceptable.”
- A7. Substitutions (materials and/or suppliers) will need to meet the requirements of the specifications and plans, and requests for substitutions will be evaluated in accordance with SSP 4-6.
- Q8. 2.01.A – Please add “Walker Process Equipment” to the list of named manufacturers.
- A8. Substitutions (materials and/or suppliers) will need to meet the requirements of the specifications and plans, and requests for substitutions will be evaluated in accordance with SSP 4-6.
- Q9. Regarding the subject project, Flow N Control is interested in getting ABS Sulzer added as an approved equal for the non-clog dry pit vertical pumps specified in section 44 42 56.09. Attached is a submittal packet which includes the product submittal form required by paragraph 4.6 of the project solicitation. Will you please confirm if we can be approved?
- A9. Substitutions (materials and/or suppliers) will need to meet the requirements of the specifications and plans, and requests for substitutions will be evaluated in accordance with SSP 4-6.
- Q10. Drawing PK2-Y-113 note 3 – references detail 2331-901; no detail was included in the bid documents

- A10. Detail should reference 2331-191. This Addendum B updates the detail callout.
- Q11. Midwestern Fabricators would like to be added to the approved manufacturers listed in section 23 31 16.16 and I have attached some documents, including past jobs in San Diego in effort to show our abilities as a manufacturer
- A11. Substitutions (materials and/or suppliers) will need to meet the requirements of the specifications and plans, and requests for substitutions will be evaluated in accordance with SSP 4-6.
- Q12. 36AVRV-052 SHT D-301, Section A (CONT) calls out for a 4" Comb air/vac with a 4" plug valve, however spec section 40 27 02 (valve schedule calls out for 6"). Please confirm size as this will also affect the operation type (non-geared vs geared) for the plug valve
- A12. 36AVRV-052 shall be 6-inches. See changes per this Addendum B.
- Q13. STD DETAIL 4027-664 FOR SEAL WATER SHOWS A 3/4" COPPER DRAIN FROM THE PUMP TO "HUB DRAIN OR SCUPPER". NO HUB DRAINS OR SCUPPERS ARE SHOWN ON ANY OF THE SERIES 10 DWG'S FOR THE NEW PRIMARY SEDIMENT TANK SLUDGE PUMPS. WHERE SHOULD THESE DRAINS BE TERMINATED?
- A13. Please clarify question. There are no primary sediment sludge pumps in Package 3.
- Q14. SHT PK3-G-105 Calls for ALL sizes to reference spec section 40 20 00.03. Should this read 40 27 00.03?
- A14. The specification reference for Carbon Steel (CS) piping (as indicated for AHP) should be Section 40 27 00.03.
- Q15. DWG PK2-G-103 PIPE SCHEDULE PROVIDES THE PIPE TYPE FOR THE "PEF" 24" AND ABOVE, BUT NOTHING FOR THE 12" & 14" SHOWN ON DWG'S 11-D-100 & 301. WHAT TYPE PIPE SHOULD THESE SIZES BE?
- A15. 12" and 14" PEF shall be CLDI pipe per Section 40 27 00.01.

- Q16. Spec section 33 05 01.01 states that this section is applicable only to materials outside of the IPS and that we must reference section 40 27 00.03 for inside the IPS. However, section 40 27 00.03 only contains information for materials up to 24". Is it acceptable to utilize spec. 33 05 01.01 for pipes larger than 24". If not, please provide applicable specification?
- A16. For steel piping larger than 24" inside the IPS, 33 05 01.01 can be applied. However, there should be no steel pipe inside the pump station that is larger than 24". The steel pipe beneath the pump station is considered as "outside" piping.
- Q17. DWG PK2 11-D-301 SHOWS A 14" V108 VALVE. THERE IS NO LISTING FOR A V108. WHAT TYPE OF VALVE SHOULD THIS BE?
- A17. Type V108 valve has been added as part of this Addendum B.
- Q18. DWG. PK2-11-D-100 SHOWS AN "EXISTING 36" FLANGED WALL PIPE". SHOULD THIS READ 30" WALL PIPE OR WILL IT BE NECESSARY TO INSTALL A SPECIAL ADAPTER FLANGE TO CONNECT THE NEW 30" PIPE?
- A18. See drawing in this Addendum B.
- Q19. DWG PK2 10-D-105 SHOWS THE DRAIN LINES AS "PSL/D" WHEREAS DWG 1-N-108D SHOWS THE DRAIN LINE LABELED "PD". SHOULD THIS LINE BE GLASS LINED SIMILAR TO THE "PSL" PIPE SCHEDULE REQUIREMENT OR CEMENT LINED AS SHEDULED FOR THE "PD" LINES?
- A19. This particular piping can be cement lined. This response should not be inferred to set a precedence of following PID flow streams over Process drawing callouts in the case of conflicts.
- Q20. PK3 SHT. P-110 shows a 1" UWHP line coming into the new Influent PS indicating this line can be found on SHT PK2-Y-111. No such line is shown on the referenced drawing. Where does this line terminate?
- A20. The connection points will be reflected in plans issued as part of Addendum C.

D. SUPPLEMENTARY SPECIAL PROVISIONS

1. To Attachment A, Scope of Work, Item 1 Scope of Work, Sub-Item B, page 27, **ADD** the following after numeral ix:
 - x. Milestone 1A: Installation of relocated entrance, entrance gate, guard house, associated access and security fixtures and utilities, and main access road.
2. To Attachment A Scope of Work, Item 3 Contract Time, page 31, **ADD** the following to table after Milestone 1:

Milestone 1A	Relocated entrance, entrance gate, guard house, associated access and security fixtures and utilities, and main access road.	203 Working Days after Notice to Proceed
-----------------	--	--

3. To Attachment A Scope of Work, Item 3 Contract Time, page 31, **DELETE** Milestone 2 in table and **SUBSTITUTE** with the following:

Milestone 2	Completion and Early Acceptance for Beneficial Use of the Headworks Facility	296 Working Days after Notice to Proceed
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4. To Attachment E, SECTION 2 – SCOPE OF THE WORK, Sub-item 2-10.2.1.1 DRB Member Selection, item 1, page 124, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 1. You and the City each nominates a DRB member candidate who is on the City’s accepted approved list. For the list, the City directs you to the following Caltrans Construction Website: <https://dot.ca.gov/programs/construction/drbinformationandcandidate-list>

5. To Attachment E Supplementary Special Provisions, Item 6-9 Liquidated Damages, numeral 3, page 163, **ADD** the following to table after Milestone 1:

Milestone 1A	Relocated entrance, entrance gate, guard house, associated access and security fixtures and utilities, and main access road.	203 Working Days after Notice to Proceed	\$8,100/Calendar Day
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6. To Attachment E Supplementary Special Provisions, page 163, Item 6-9 Liquidated Damages, numeral 3, **DELETE** Milestone 2 in table and **SUBSTITUTE** with the following:

Milestone 2	Completion and Early Acceptance for Beneficial Use of the Headworks Facility	296 Working Days after Notice to Proceed	\$1,000/Calendar Day
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7. To Technicals (PACKAGE 2), Section 01 29 00 Payment Procedures, Part 1 General, Item 1.04 Allowances, Sub-Item D, numeral 5, page 202, **DELETE** in its entirety.
8. To Technicals (PACKAGE 2), Section 01 29 00 Payment Procedures, Part 1 General, Item 1.11 Bid Items, Sub-Item B, "Package 2 – NCWRP Expansion Bid items", item 7, "Primary Treatment Facility 10", letter c, sub-item 2, page 208, **DELETE** in its entirety and **SUBSTITUTE** with:
- 2) The expansion of the primary treatment system includes three new sedimentation basins - each one identical in size as each of the six existing ones – and the extension of the primary influent channel to accommodate the new sedimentation basins with fine bubble diffusers for aeration.

9. To Technicals (PACKAGE 2), Section 01 29 00 Payment Procedures, Part 1 General, Item 1.11 Bid Items, Sub-Item B, numeral 8, letter c, page 211, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - c. Payment is made for this Item for the following:
 - 1) A new fifth pump will be required to be provided for the increase flow requirements.
 - 2) Four existing pumps and motors will be replaced with new pumps and motors.
 - 3) The flow control valve, used to drain the FEBs into the PEF/RAS mixing channel, will be required to be replaced with a larger valve.
 - 4) Payment under this Bid Item shall be made as the lump sum price named in the Bid Schedule.
10. To Technicals (PACKAGE 2), Section 01 29 00 Payment Procedures, Part 1 General, Item 1.11 Bid Items, Sub-Item B, numeral 9, letter c, numeral 1, page 211, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - 1) Primary effluent (PEF) and return activated sludge (RAS) are blended after primary clarification to create ML. The ML is distributed from an influent channel to existing and new bioreactor basins using manually adjustable weir gates. The existing influent channel will be extended to the new bioreactor basins. The existing channel will use the existing agitation air system to keep solids in suspension. The new influent channel extension will be provided to accommodate the new bioreactors and new fine bubble diffusers for aeration.
11. To Technicals (PACKAGE 2), page 213, Section 01 29 00 Payment Procedures, Part 1 General, Item 1.11 Bid Items, Sub-Item B, "Package 2 – NCWRP Expansion Bid items", item 10, "Second Stage Bioreactor Basins Facility 16", letter c, numeral 1, **DELETE** in its entirety and **SUBSTITUTE** with:
 - 1) The influent channel for the existing secondary sedimentation basins will be modified and extended to convey flow to each

second-stage bioreactor basin. The channel will use the existing agitation air system to keep solids in suspension. The new influent channel extension will be provided to accommodate the new bioreactors and new fine bubble diffusers for aeration.

12. To Technicals (PACKAGE 2), Section 01 31 13 Project Coordination, Part 1 General, Item 1.03 Related Work at Site, Sub-Item B, numeral 1, letter d, page 231, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - d. Work will be performed by San Diego Gas and Electric within the Eastgate Mall right of way from July 2021 to March 2022. See the drawings for staging area requirements and working limits for SDG&E and coordinate with the Construction Manager.
13. To Technicals (PACKAGE 2), Section 01 31 13 Project Coordination, Part 1 General, Item 1.05 Project Milestones, Sub-Item A, numeral 1, page 232, **ADD** the following after letter i:
 - j. Milestone 1A: Installation of relocated entrance, entrance gate, guard house, associated access and security fixtures and utilities, and main access road.
 - 1) Final overlay, curb, gutter, and pavement is not part of this milestone.
14. To Technicals (PACKAGE 2), Section 01 31 13 Project Coordination, Part 1 General, Item 1.06 Work Sequencing/Constraints, Sub-Item C, page 233, **DELETE** in its entirety and **SUBSTITUTE** with:
 - C. The Construction of the new facility entrance road and landscaping along Eastgate Mall shall be completed prior to the new roadway work for Eastgate Mall, by the North City Pure Water Facility (NCPWF) project.
15. To Technicals (PACKAGE 2), Section 01 31 13 Project Coordination, Part 1 General, Item 1.07 Facility Operations, Sub-Item B, page 234, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - B. The Contractor shall be solely responsible for maintaining continued and uninterrupted operation of all facilities in the project area and shall prepare all required Maintenance of Plant

Operation (MOPO) Plans for all facilities affected by its work. The MOPO Plan shall detail how, but not limited to, the following elements that will allow the water reclamation plant to function continuously with appropriate capacity during construction: sequence of construction activities, temporary works, and bypassing.

The North City Water Reclamation Plant (NCWRP) treats wastewater generated by northern San Diego communities to produce reclaimed water produced for a variety of downstream users. Impairing the operational capabilities of this treatment plant will result in serious environmental damage and monetary fines. The Contractor shall conduct work in a manner that will not impair the operational capabilities of essential elements of the treatment process or reduce the capacity of the entire treatment plant below levels sufficient to treat the quality of raw wastewater to the water quality limitations specified in the discharge permit.

The status of the treatment plant shall be defined as “operational” when it can treat the entire quantity of wastewater received to the water quality limits specified in the discharge permit. It shall also be capable of providing the quantity of reclaimed water demands at all times.

The Contractor shall include costs for compliance with specific sequencing limitations and constraints and the related general factors pertaining to such compliance including, but not limited to:

1. Reduced construction efficiency and productivity.
2. Location of site at which Work shall be performed.
3. Overtime costs for performing work outside of normal work hours, if required.
4. Work related to temporary facilities needed to maintain plant operations.
5. Preparation and revision of schedule and planned Sequence of Work.

6. Requests for clarification of details related to compliance with this Section.
16. To Technicals (PACKAGE 2), Section 01 31 13 Project Coordination, Part 1 General, Item 1.07 Facility Operations, Sub-Item C, page 234, **DELETE** in its entirety.
17. To Technicals (PACKAGE 2), Section 01 31 13 Project Coordination, Part 1 General, Item 1.07 Facility Operations Sub-Item G, page 234, **ADD** the following after Numeral 6:
 7. Maintain chemical truck access for chemical deliveries through the site to Facility 55 at all times, as well as all access required for facility maintenance and operation, and fire truck and emergency vehicle access. Access Roads A, B, C, and D shall be made accessible for deliveries and maintenance prior to the removal of the temporary access road to the west of Facility 51. The temporary access road will not be accessible during the installation of the NCPWF Influent Pipeline and other conveyance piping to the NCPWF.
18. To Technicals (PACKAGE 2), Section 01 50 00 Temporary Facilities and Controls, Part 2 Products, Item 2.01 Construction Manager Field Offices, Sub-Items A and B, page 359, **DELETE** in their entirety and **SUBSTITUTE** with the following:
 - A. The Construction Manager's field offices shall be provided by the Owner and are existing. The Contractor shall continue to provide all power and services for the field offices, including all required maintenance of field office, furniture, and equipment , until 60 days after Substantial Completion.
19. To Technicals (PACKAGE 2), Section 01 50 00 Temporary Facilities and Controls, Part 3 Execution, Item 3.01, Construction Manager's Field Office, Sub-Item A, page 359, **ADD** the following:
 - B. Maintain in good repair and appearance and provide weekly cleaning service and replenishment, as required, or paper towels, paper cups, hand soap, toilet paper, first-aid kit supplies, plastic utensils, and bottled water.

1. Maintenance of field office may include but is not limited to: plumbing leaks, ceiling tile replacement, HVAC servicing, etc.
 - C. Provide maintenance service, supplies, and paper for 1ea Sharp MX Network printer and 1ea Konica Bizhub. Ensure both devices are capable of color printings via 11" x 17" and 8-1/2" x 11".
 - D. Contractor to arrange and continue existing lease of temporary power poles/cable installed via previous contract.
 - E. Contractor to arrange and continue existing accounts for potable water and SDGE.
 - F. Field office shall remain on site for minimum 60 days after substantial completion.
20. To Technicals (PACKAGE 2), Section 01 50 00 Temporary Facilities and Controls, Part 3 Execution, Item 3.02 Temporary Utilities, Sub-Item A, Numeral 1, page 360, **DELETE** in its entirety and **SUBSTITUTE** with the following:
1. Electric power will be available at or near Site. The existing power supply for the Construction Manager Field Offices is existing and shall be retained in service. Any relocation of this power supply shall be the responsibility of the Contractor and coordinated with the Construction Manager. Determine type and amount available and make arrangements for obtaining temporary electric power service, metering equipment, and pay costs for electric power used during Contract period, except for portions of the Work designated in writing by Construction Manager as having been taken over for Beneficial Use. Coordinate with the Construction Manager for the use of existing power system for the testing of new or replaced equipment.
21. To Technicals (PACKAGE 2), Section 01 50 00 Temporary Facilities and Controls, Part 3 Execution, Item 3.04 Temporary Controls, Sub-Item D, Numeral 2, page 366, **DELETE** in its entirety and **SUBSTITUTE** with the following:
2. Cranes shall have a maximum height limit as required by the ALUC Air Space Obstruction Criteria defined in the EIR. The FAA

Notice of Determination for clearance from MCAS-Miramar is specified at an elevation limit of 408 above Mean Sea Level (MSL).

22. To Technicals (PACKAGE 2), Section 01 50 00 Temporary Facilities and Controls, Part 3 Execution, Item 3.08, "Vehicular Traffic", page 367, **ADD** the following after Sub-Item J:
 - K. Maintain access for chemical delivery trucks and fire department and emergency vehicle access throughout the course of the work. Provide access roads, suitable for use by chemical delivery trucks or the fire department, when access routes must traverse uncompleted areas.

23. To Technicals (PACKAGE 2), Section 01 77 00 Closeout Procedures, Part 3 Execution, Item 3.01 Maintenance of Record Documents, page 449, **ADD** the following after Sub-Item C:
 - D. Electronic Record Documents: The Contract Drawings will be provided to the Contractor in Portable Document Format (PDF). In addition to markups on full sized drawings, the Contractor shall annotate changes on the PDF documents using electronic markup tools within a PDF editing software (Bluebeam or equivalent).The PDF documents shall be hosted on a website accessible to Owner, Construction Manager and Design Engineer for review and comment, such as Bluebeam Studio or equivalent.

24. To Technicals (PACKAGE 2), Section 01 78 23 Operations and Maintenance Data, Part 1 General, Item 1.03 Sequencing and Scheduling, Sub-Item A, Numeral 3, page 453, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 3. Record Data: Submit final Compilation Formatted and Electronic Media Formatted data prior to Substantial Completion of Project. The record data shall include an "as-built" O&M submittal upon conclusion of Facility Acceptance Testing capturing all adjustments made during testing.

25. To Technicals (PACKAGE 2), Section 01 91 14 Testing, Integration, And Startup, Part 3 Execution, Item 3.06 Operational Readiness Test, Sub-Item B, page 492, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- B. The Operational Readiness Test shall be a coordinated effort between the Contractor, PIC System Integrator, and DCSP to confirm the PIC, including the applications software is ready for operation. This testing will be performed in two steps, one for the equipment testing prior to installing the software and the other after the application software has been installed. This testing is described in Division 40, Process Interconnections.
26. To Technicals (PACKAGE 2), Section 01 91 14 Testing, Integration, And Startup, Part 3 Execution, Item 3.12 Facility Acceptance Test, Sub-Item H, page 496, **DELETE** in its entirety.
27. To Technicals (PACKAGE 2), Section 40 27 02 Process Valves and Operators, Part 2 Products, Item 2.05 Valves, Sub-Item A, "Gate Valves", page 2080, **ADD** the following after numeral 11:
12. Type V108 Gate Valve 2 Inches to 24 Inches:
- a. Iron body, bronze mounted, flanged ends, solid wedge gate, nonrising bronze stem, Class 125 rated 125 psi SWP, 200 psi CWP for 2 inches through 12 inches and 100 psi SWP, 150 psi CWP for 14 inches through 24 inches.
- b. Manufacturers and Products:
- 1) Crane; Figure 461.
- 2) Stockham; Figure G612.
28. To Technicals (PACKAGE 2), Section 44 42 56.11 Chemical Resistant Sump Pumps, Part 2 Products, Item 2.01 General, page 4425, **ADD** the following after sub-Item C:
- D. Pump length shall be coordinated with the depth of the approved precast vault.

29. To Technicals (PACKAGE 3), Section 44 42 56.03 Vertical Turbine Pumps, Vertical Turbine Pump Data Sheet, Design and Materials, Sub-Item Head Shaft Material, page 5999, **DELETE** in its entirety and **SUBSTITUTE** with:

Type 416 stainless steel or Type 17-4PH Stainless Steel

E. PLANS

1. The following Drawing Sheets for PACKAGE 2 Plans have been modified as shown below. See pages 21 through 112 of this Addendum.

a) **DELETE** in their entirety and **REPLACE**:

40381-2001-D, No. PK2-G-001
40381-2005B-D, No. PK2-G-005B
40381-2014-D, No. PK2-G-014
40381-2019-D, No. PK2-G-020
40381-2029-D, No. PK2-G-032
40381-2042-D, No. PK2-G-100
40381-2045-D, No. PK2-G-103
40381-2057-D, No. PK2-C-001
40381-2058-D, No. PK2-CX-101
40381-2059-D, No. PK2-CX-102
40381-2060-D, No. PK2-CX-105
40381-2061-D, No. PK2-CX-106
40381-2062-D, No. PK2-CX-107
40381-2063-D, No. PK2-CX-108
40381-2064-D, No. PK2-CX-111
40381-2065-D, No. PK2-CX-112
40381-2066-D, No. PK2-CX-113
40381-2067-D, No. PK2-CX-114
40381-2068-D, No. PK2-CX-115
40381-2069-D, No. PK2-CX-116
40381-2070-D, No. PK2-CG-001
40381-2071-D, No. PK2-CG-100
40381-2072-D, No. PK2-CG-101
40381-2073-D, No. PK2-CG-103
40381-2074-D, No. PK2-CG-105
40381-2075-D, No. PK2-CG-106
40381-2077-D, No. PK2-CG-108
40381-2078-D, No. PK2-CG-111

40381-2079-D, No. PK2-CG-112
40381-2080-D, No. PK2-CG-113
40381-2081-D, No. PK2-CG-114
40381-2084-D, No. PK2-CG-117
40381-2085-D, No. PK2-CG-501
40381-2086-D, No. PK2-CG-502
40381-2088-D, No. PK2-CG-504
40381-2092-D, No. PK2-CG-508
40381-2095-D, No. PK2-CG-511
40381-2103-D, No. PK2-SW-101
40381-2104-D, No. PK2-SW-102
40381-2105-D, No. PK2-SW-103
40381-2107-D, No. PK2-SW-105
40381-2111-D, No. PK2-SW-109
40381-2112-D, No. PK2-SW-110
40381-2113-D, No. PK2-SW-111
40381-2155-D, No. PK2-Y-100
40381-2156-D, No. PK2-Y-101
40381-2157-D, No. PK2-Y-102
40381-2158-D, No. PK2-Y-106
40381-2159-D, No. PK2-Y-107
40381-2160-D, No. PK2-Y-111
40381-2161-D, No. PK2-Y-112
40381-2162-D, No. PK2-Y-113
40381-2163-D, No. PK2-Y-115
40381-2164-D, No. PK2-Y-116
40381-2166-D, No. PK2-Y-120
40381-2168-D, No. PK2-Y-122
40381-2173-D, No. PK2-Y-137
40381-2174-D, No. PK2-Y-138
40381-2175-D, No. PK2-Y-139
40381-2177-D, No. PK2-Y-141
40381-2181-D, No. PK2-Y-302
40381-2182-D, No. PK2-Y-303
40381-2183-D, No. PK2-Y-304
40381-2184-D, No. PK2-Y-305
40381-2186-D, No. PK2-Y-307
40381-2187-D, No. PK2-Y-308
40381-2190-D, No. PK2-Y-353

40381-2197-D, No. PK2-CS-102
40381-2203-D, No. PK2-CS-106
40381-2213-D, No. PK2-ES-102
40381-2215-D, No. PK2-ES-106
40381-2216-D, No. PK2-ES-107
40381-2218-D, No. PK2-ES-111
40381-2229-D, No. PK2-ESX-603
40381-2232-D, No. PK2-ES-603
40381-2695-D, No. PK2-23-S-001
40381-2746-D, No. PK2-25-S-101
40381-2749-D, No. PK2-25-S-104
40381-2750-D, No. PK2-25-S-105
40381-2867-D, No. PK2-58-D-110
40381-2868-D, No. PK2-58-D-301
40381-2870-D, No. PK2-58-P-110
40381-2872-D, No. PK2-58-E-120
40381-2885-D, No. PK2-63-EX-621
40381-21048-D, No. PK2-N01-N-143D
40381-21145-D, No. PK2-SD-058

b) **ADD** the following new drawing sheets:

40381-2187A-D, No. PK2-Y-309
40381-2192A-D, PK2-Y-356
40381-2195A-D, PK2-Y-504:
40381-2195B-D, PK2-Y-505
40381-2705A-D, PK2-23-S_305
40381-2868A-D, PK2-58-D-302

2. The following Drawing Sheets for PACKAGE 3 Plans have been modified as shown below. See pages 113 through 129 of this Addendum.

a) **DELETE** in their entirety and **REPLACE**:

40381-3031-D, PK3-G-103
40381-3045-D, PK3-SW-101
40381-3046-D, PK3-SW-102
40381-3049-D, PK3-CV-103
40381-3097-D, PK3-36-D-301

b) **ADD** the following new drawing sheets:

40381-3005B-D, PK3-G-005B

40425-01-D, G-001

40425-02-D, G-002

40425-03-D, G-003

40425-04-D, G-004

40425-05-D, G-005

40425-06-D, G-100

40425-07-D, G-400

40425-08-D, G-401

40425-09-D, D-001

40425-10-D, C-001

40425-11-D, C-002

James Nagelvoort, Director
Engineering & Capital Projects Department

Dated: *February 12, 2021*
San Diego, California

JN/RWB/mlw

NCWRP EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CITY OF SAN DIEGO, CA 92121

VOLUME 14

CONTRACT NO. XXXXX

JUNE 2020

EXISTING LEGAL DESCRIPTION

MM0036 LOT 1306*16.23 AC ML IN

SCOPE OF WORK

THE NCWRP EXPANSION PACKAGE INCLUDES WORK AT THE FOLLOWING FACILITIES AND OTHER WORK AS SHOWN WITHIN THE CONTRACT DOCUMENTS, INFLUENT PUMP STATION, HEADWORKS, GRIT BASINS, PRIMARY CLARIFIERS, INTERMEDIATE PUMP STATION, FIRST STAGE BIOREACTOR BASINS, BIOREACTOR/FILTER SUPPORT FACILITY, TERTIARY FILTERS, SECONDARY CLARIFIERS, WASTE BACKWASH TANK, CHLORINE CONTACT BASINS, EFFLUENT PUMP STATION, BLENDED SLUDGE PUMP STATION AND CHEMICAL BUILDING.

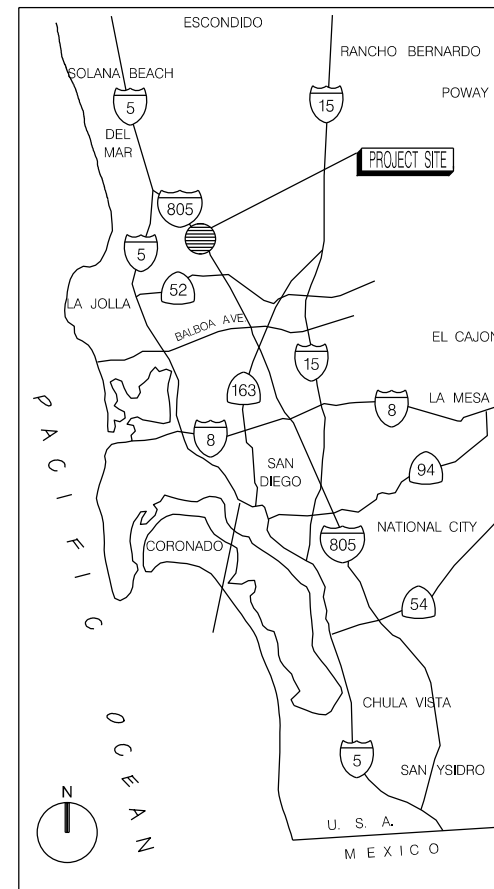
CONTRACTOR'S RESPONSIBILITIES

- PURSUANT TO SECTION 4216 OF THE GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION, YOU MUST CONTACT THE REGIONAL NOTIFICATION CENTER (E.G. UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
- NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES. (I.E., 69 KV & HIGHER)
- LOCATE AND RECONNECT ALL SEWER LATERALS AFFECTED BY CONSTRUCTION ACTIVITIES. LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. LATERAL RECORDS ARE AVAILABLE TO THE CONTRACTOR AT THE WATER DEPARTMENT, 2797 CAMINITO CHOLLAS. LOCATE THE IMPROVEMENTS THAT WILL BE AFFECTED BY LATERAL REPLACEMENTS.
- EXCAVATE AROUND WATER METER BOX (CITY PROPERTY SIDE) TO DETERMINE IN ADVANCE, THE SIZE OF EACH SERVICE BEFORE TAPPING MAIN.
- CITY FORCES, WHEN SPECIFIED OR SHOWN ON THE PLANS, WILL MAKE PERMANENT CUTS & PLUGS AND CONNECTIONS.
- KEEP EXISTING MAINS IN SERVICE IN LIEU OF HIGH-LINING, UNLESS OTHERWISE SPECIFIED SHOWN ON PLANS.
- THE LOCATIONS OF EXISTING BUILDINGS AS SHOWN ON THE PLAN ARE APPROXIMATE.
- STORM DRAIN INLETS SHALL REMAIN FUNCTIONAL AT ALL TIMES DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED AS PREVIOUSLY POTHOLED (PH), ELEVATIONS SHOWN ON THE PROFILE FOR EXISTING UTILITIES ARE BASED ON A SEARCH OF THE AVAILABLE RECORD INFORMATION ONLY AND ARE SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THE CITY DOES NOT GUARANTEE THAT IT HAS REVIEWED ALL AVAILABLE DATA. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES EITHER SHOWN ON THE PLANS OR MARKED IN THE FIELD IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 5-UTILITIES.
- EXISTING UTILITY CROSSING AS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT REPRESENTATIVE OF ACTUAL LENGTH AND LOCATION OF CONFLICT AREAS. SEE PLAN VIEW.
- ALL ADVANCE METERING INFRASTRUCTURE (AMI) DEVICES ATTACHED TO THE WATER METER OR LOCATED IN OR NEAR WATER METER BOXES, COFFINS, OR VAULTS SHALL BE PROTECTED AT ALL TIMES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

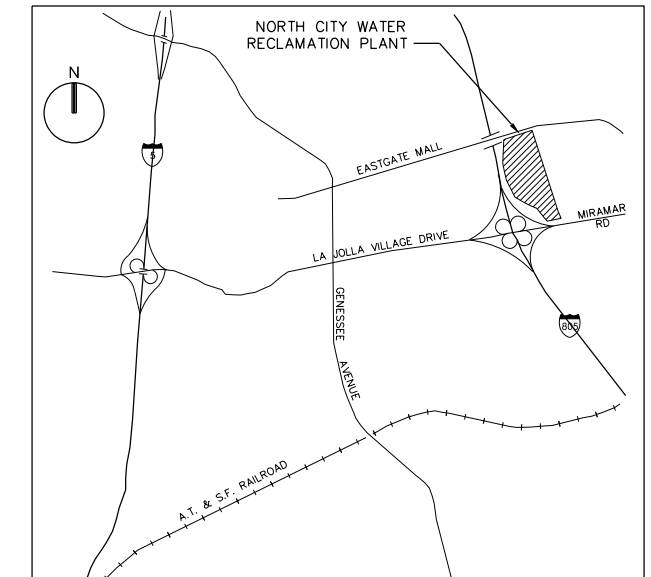
CONSTRUCTION STORM WATER PROTECTION NOTES

- TOTAL SITE DISTURBANCE AREA (ACRES): 17.72 ACRES
HYDROLOGIC UNIT/ WATERSHED: MISSION BAY WATERSHED
HYDROLOGIC SUBAREA NAME & NO.: MIRAMAR HA 906.40
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE
 - WPCP
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100
 - SWPPP
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100 AND CONSTRUCTION GENERAL PERMIT ORDER 2009-0009-DWQ AS AMENDED BY ORDER 2010-0014-DWQ AND 2012-0006-DWQ

TRADITIONAL: RISK LEVEL 1 2 3
LUP: RISK TYPE 1 2 3
- CONSTRUCTION SITE PRIORITY
 - ASBS HIGH MEDIUM LOW



VICINITY MAP



LOCATION MAP

DECLARATION OF RESPONSIBLE CHARGE

* I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

Mark Elliott
(MARK ELLIOTT) 12/08/2020

PK2-G-001

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION			
GENERAL COVER SHEET AND VICINITY MAP			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 1 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142	
APPROVED: <i>Mark Elliott</i> FOR CITY ENGINEER PRINT DCE NAME: Mark Elliott RCE#	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOczynski PROJECT MANAGER	
DESCRIPTION	BY	APPROVED	DATE
▲ Addendum A	CH	<i>Mark Elliott</i>	1/15/21
▲ Addendum B	CH	<i>Mark Elliott</i>	2/3/21
		PROJECT ENGINEER	
		260-1709	
		CCS27 COORDINATE	
		1900-6269	
		CCS83 COORDINATE	
CONTRACTOR		DATE STARTED	40381-2001-D
INSPECTOR		DATE COMPLETED	

CONSULTANT

WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DIGITALLY SIGNED: 1/25/2021

**Table 10-5
Mitigation Measures – North City Pure Water Facility Influent Pump Station**

Mitigation Measure	Timing of Mitigation			Responsible Person	Location/Notes
	Pre Const.	During Const.	Post Const.		
MM-AQ-1 (construction BMPs)		X		Construction Manager	Entire site
MM-AQ-2 (construction NO _x)		X		Construction Manager	Entire site
MM-BIO-4 (Coastal California Gnatcatcher)	X	X		City of San Diego	Coastal sage scrub within the facility within MCAS Miramar and within the MHPA south of Miramar Road.
MM-BIO-9a (Qualified biologist)	X			Owner/permittee	Entire site
MM-BIO-9b (preconstruction meeting)	X			City of San Diego	Entire site
MM-BIO-9c (documentation)	X	X	X	Owner/Permittee	Entire site
MM-BIO-9d (biological construction mitigation/monitoring exhibit)	X			City of San Diego	Entire site
MM-BIO-9e (construction fencing)	X			City of San Diego	Entire site
MM-BIO-9f (on-site education)	X			City of San Diego	Entire site
MM-BIO-9g (biological monitoring)		X		City of San Diego	Entire site
MM-BIO-9j (BMPs/erosion/runoff)	X	X	X	City of San Diego	Entire site
MM-BIO-9k (toxics/project staging areas/equipment storage)		X	X	Construction Manager/owner	Entire site
MM-HAZ-2 (hazardous material reporting form)			X	City of San Diego	Entire site
MM-HIS-3 (archaeological monitoring)	X	X	X	Principal Investigator (Archaeologist)	Entire site
MM-NOI-4 (noise and vibration study)	X			Construction Contractor	Entire site
MM-PALEO-1 (paleontological monitoring)	X	X	X	Principal Investigator (Paleontologist)	Entire site

April 2017 10-35 9420-04

PK2-G-005B

CONSTRUCTION CHANGE /ADDENDUM			
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.
ADDENDUM A	01/21	6, 15, 45, 58-59, 61-62, 65, 74-75, 77, 84, 91, 94, 96-97, 100, 106, 108, 114A-157, 161, 164-166, 168, 171, 173, 175-180, 182, 184-190, 193, 195, 211-212, 215-216, 218, 695, 702, 705, 794-796, 798, 806A, 927, 1054A, 1133	
ADDENDUM B	01/27	1, 5B, 14, 19, 29, 41-42, 45, 57-88, 92, 95, 103-105, 107-114, 155-164, 166, 168, 173-175, 177, 181-184, 186-187A, 190, 192A, 195A-195B, 197, 203, 213, 215-216, 218, 229, 232, 695, 705A, 746, 749-750, 867-868A, 870, 872, 885, 904-905, 1048, 1145	

WARNING
0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT



FOR REFERENCE ONLY

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 5B OF 1169 SHEETS				B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: <i>[Signature]</i>		DATE: 12/03/2020 C/70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER	
DESCRIPTION	BY	APPROVED	DATE	FIRM
ADDENDUM A	CH	<i>[Signature]</i>	1/15/21	260-1709
ADDENDUM B	CH	<i>[Signature]</i>	2/3/21	1900-6269
DATE STARTED				40381-2005B-D
DATE COMPLETED				

SECTION / DETAIL DESIGNATIONS

SECTION (LETTER) OR DETAIL (NUMERAL) DESIGNATION
ON DRAWING WHERE SECTION OR DETAIL IS TAKEN:



DRAWING NUMBER WHERE SHOWN
10-D-100

DRAWING NUMBER (REPLACED WITH A LINE IF TAKEN AND SHOWN ON SAME SHEET)



SECTION

SCALE
10-S-301

ON DRAWING WHERE SECTION IS SHOWN:

DRAWING NUMBER(S) WHERE TAKEN



DETAIL

SCALE
20-M-501

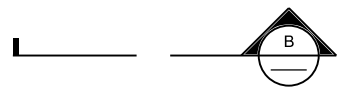
ON DRAWING WHERE DETAIL IS SHOWN:

DRAWING NUMBER(S) WHERE TAKEN

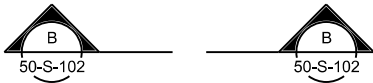
DRAWING TITLE

SCALE

ON DRAWING WHERE ONLY A TITLE IS REQUIRED WITH NO REFERENCE (eg: ELEVATIONS)



SECTION CALLOUT WHERE SECTION IS ON THE SAME SHEET, AND CUT EXTENDS TO A FIXED LIMIT



SECTION CALLOUT WHERE SECTION IS ON ANOTHER SHEET, AND CUT EXTENDS THROUGHOUT ENTIRE SHEET



GRID LINE INDICATOR



KEYNOTE NUMBER



REVISION / ADDENDA NUMBER



NORTH ARROW: CAN BE MODIFIED TO INCLUDE MAGNETIC NORTH ALONG WITH PROJECT NORTH

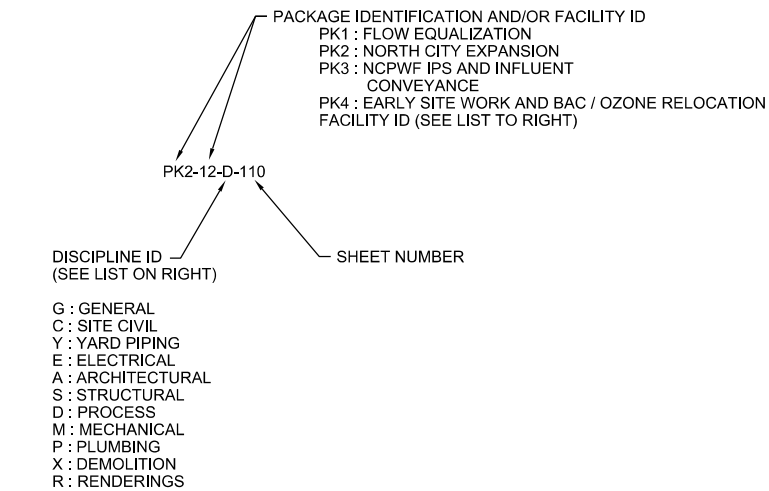
DESIGN DETAIL DESIGNATION

DESIGN DETAIL DESIGNATION (NUMERAL)
SHOWN ON DESIGN DETAIL DRAWING(S)
(1234-567)

NOTES:

1. ALL DESIGN DETAILS ARE TYPICAL AND MUST BE USED IF DESIGN DETAIL DESIGNATION IS NOT SHOWN
2. THE TERM STANDARD DETAIL, OR A FORM OF IT, IS SYNONOMOUS WITH DESIGN DETAIL. THE DESIGN DETAILS REPRESENT THE CHARACTER AND NATURE OF THE WORK REQUIRED THROUGHOUT THE PROJECT. ALL ASSOCIATED WORK SHALL BE IN ACCORDANCE WITH THE DESIGN DETAILS SHOWN WHETHER THE DETAILS ARE SPECIFICALLY REFERENCED OR NOT.

SHEET NUMBER DESIGNATIONS



DRAWING NUMBER DESIGNATION

FACILITY ID	SECOND LEVEL ID	DESCRIPTION
G		GENERAL
C	SITE CIVIL	CX = SITE CIVIL DEMO
		CE = CIVIL EROSION
		CL = CIVIL LOCATION
		CM = CIVIL MASS EXCAVATION
		CG = CIVIL GRADING
		CS = SITE STRUCTURES
		CP = CATHODIC PROTECTION
GT		GEOTECHNICAL
SW		SITE STORM DRAINAGE
L		LANDSCAPING
Y	YARD PIPING	YX = YARD PIPING DEMO
		YU = YARD PIPING UTILITIES RELOCATION
ES	ELECTRICAL SITE	EX = ELECTRICAL SITE DEMO
		EU = ELECTRICAL SITE UTILITIES RELOCATION
E		GENERAL ELECTRICAL
FACILITY ID	FACILITY	
01	INFLUENT PUMP STATION	
05	HEADWORKS	
10	PRIMARY SEDIMENTATION TANKS	
11	INTERMEDIATE PUMP STATION RAS PE MIXING	
12	FLOW EQUALIZATION BASINS	
15	FIRST STAGE BIOREACTOR BASINS	
16	SECOND STAGE BIOREACTOR BASINS	
20	BIOREACTOR/FILTER SUPPORT FACILITY	
23	SECONDARY CLARIFIERS	
25	TERTIARY FILTERS	
30	CHLORINE CONTACT BASIN	
33	EFFLUENT DROP STRUCTURE	
34	EFFLUENT PUMP STATION	
45	BLENDED SLUDGE PUMP STATION	
55	CHEMICAL BUILDING	
57	DISINFECTION FEED FACILITY	
58	CARBON CHEMICAL FACILITY	
61-69	ELECTRICAL SUBSTATIONS - AREAS 61-69	
70	SECONDARY CLARIFIER ELECTRICAL BUILDING	
N	I&C	
SD	STANDARD DETAILS	

PK2-G-014

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

GENERAL GENERAL LEGEND AND SYMBOLS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 14 OF 1169 SHEETS

B-16149, S-17012
WBS B-15142

APPROVED: FOR CITY ENGINEER	DATE 12/03/2020	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER
PRINT DCE NAME Andria Demich	RCE# C79321	PROJECT ENGINEER THIEN-LONG TRAN
DESCRIPTION	BY	APPROVED
▲ Addendum B	CH	<i>[Signature]</i>
		DATE FILM
		2/3/21
DATE STARTED		
DATE COMPLETED		

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

DIGITALLY SIGNED: 01/26/2021

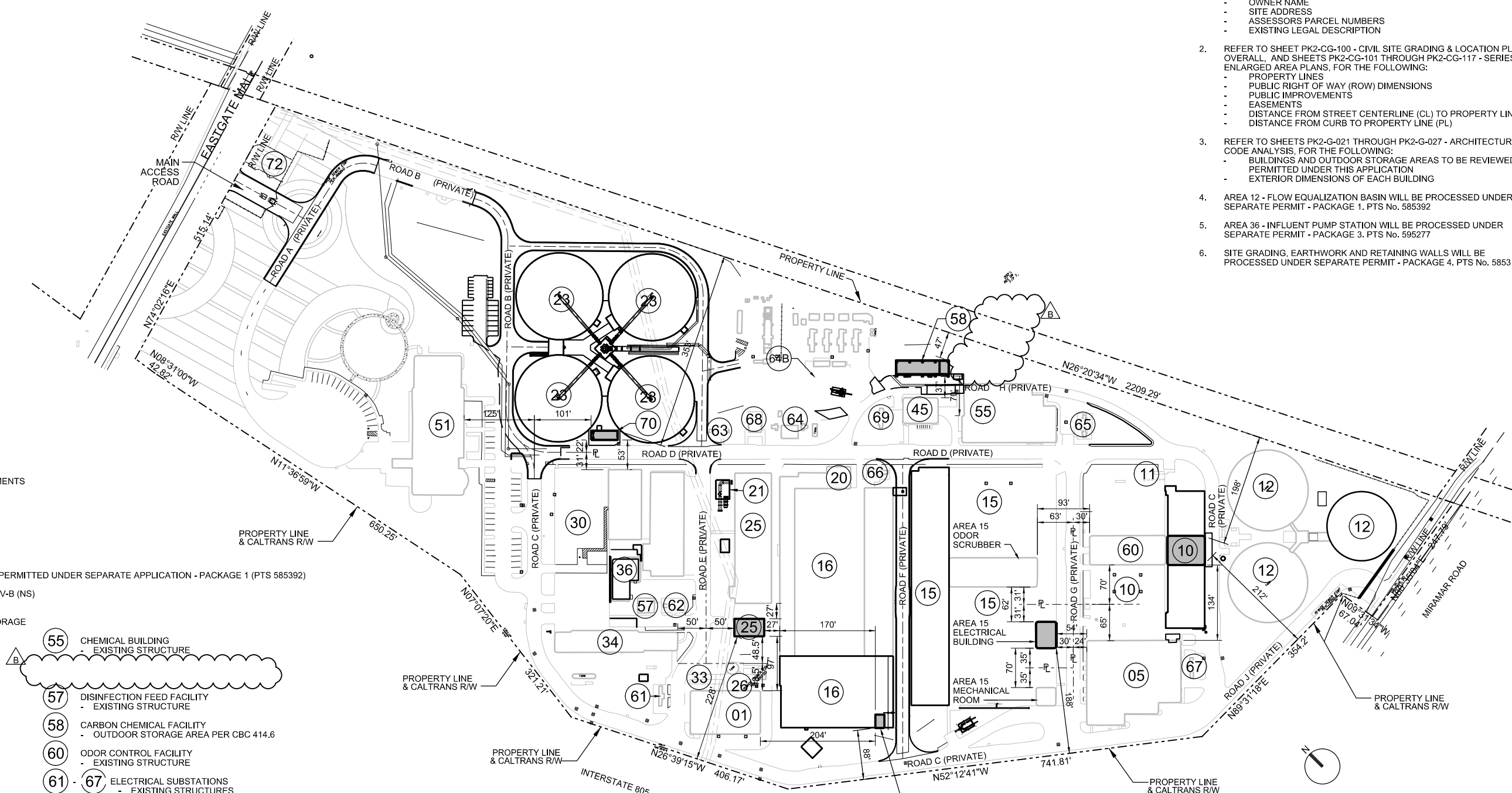
CONTRACTOR _____
INSPECTOR _____

GENERAL NOTES:

- REFER TO SHEET PK2-CG-001 - CIVIL GRADING COVER SHEET, FOR THE FOLLOWING:
 - OWNER NAME
 - SITE ADDRESS
 - ASSESSORS PARCEL NUMBERS
 - EXISTING LEGAL DESCRIPTION
- REFER TO SHEET PK2-CG-100 - CIVIL SITE GRADING & LOCATION PLAN OVERALL, AND SHEETS PK2-CG-101 THROUGH PK2-CG-117 - SERIES OF ENLARGED AREA PLANS, FOR THE FOLLOWING:
 - PROPERTY LINES
 - PUBLIC RIGHT OF WAY (ROW) DIMENSIONS
 - PUBLIC IMPROVEMENTS
 - EASEMENTS
 - DISTANCE FROM STREET CENTERLINE (CL) TO PROPERTY LINE (PL)
 - DISTANCE FROM CURB TO PROPERTY LINE (PL)
- REFER TO SHEETS PK2-G-021 THROUGH PK2-G-027 - ARCHITECTURAL CODE ANALYSIS, FOR THE FOLLOWING:
 - BUILDINGS AND OUTDOOR STORAGE AREAS TO BE REVIEWED AND PERMITTED UNDER THIS APPLICATION
 - EXTERIOR DIMENSIONS OF EACH BUILDING
- AREA 12 - FLOW EQUALIZATION BASIN WILL BE PROCESSED UNDER SEPARATE PERMIT - PACKAGE 1. PTS No. 585392
- AREA 36 - INFLUENT PUMP STATION WILL BE PROCESSED UNDER SEPARATE PERMIT - PACKAGE 3. PTS No. 595277
- SITE GRADING, EARTHWORK AND RETAINING WALLS WILL BE PROCESSED UNDER SEPARATE PERMIT - PACKAGE 4. PTS No. 585315

FACILITY LEGEND:

- 01 INFLUENT PUMP STATION
- EXISTING STRUCTURE
- 05 HEADWORKS
- EXISTING STRUCTURE, PROCESS IMPROVEMENTS
- 10 PRIMARY SEDIMENTATION TANKS
- 10,624 GSF, F-2, TYPE II-B (NS)
- 11 INTERMEDIATE PUMP STATION RAS PE MIXERS
- EXISTING STRUCTURE
- 12 FLOW EQUALIZATION BASINS
- NEW SITE ENTRANCE SCREEN WALL
- REMAINDER OF IMPROVEMENTS THIS AREA PERMITTED UNDER SEPARATE APPLICATION - PACKAGE 1 (PTS 585392)
- 15 FIRST STAGE BIOREACTOR BASINS
- ELECTRICAL BUILDING: 1,594 GSF, F-2, TYPE V-B (NS)
- 16 SECOND STAGE BIOREACTOR BASINS
- CARBON FEED SYSTEM IS AN OUTDOOR STORAGE
- AREA PER CBC 414.6
- 20 BIOREACTOR/FILTER SUPPORT FACILITY
- EXISTING STRUCTURE
- 21 FILTER INFLUENT STRUCTURE
- PROCESS STRUCTURE
- 23 SECONDARY CLARIFIERS
- PROCESS BASINS
- 25 TERTIARY FILTERS
- FILTER 7: 1,657 GSF, F-2, TYPE II-B (NS)
- 26 WASTE BACKWASH TANK
- EXISTING STRUCTURE
- 30 CHLORINE CONTACT BASIN
- EXISTING STRUCTURE
- 33 EFFLUENT DROP STRUCTURE
- EXISTING STRUCTURE
- 34 EFFLUENT PUMP STATION
- EXISTING STRUCTURE
- 36 NCPWF INFLUENT PUMP STATION
- PERMITTED UNDER SEPARATE APPLICATION
- PACKAGE 3 (PTS 595277)
- 45 BLENDED SLUDGE PUMP STATION
- EXISTING STRUCTURE
- 51 OPERATIONS BUILDING
- EXISTING STRUCTURE
- 55 CHEMICAL BUILDING
- EXISTING STRUCTURE
- 57 DISINFECTION FEED FACILITY
- EXISTING STRUCTURE
- 58 CARBON CHEMICAL FACILITY
- OUTDOOR STORAGE AREA PER CBC 414.6
- 60 ODOR CONTROL FACILITY
- EXISTING STRUCTURE
- 61 ELECTRICAL SUBSTATIONS
- EXISTING STRUCTURES
- 64B POWER GENERATION FACILITY
- EXISTING STRUCTURE
- 68 ELECTRICAL MAIN PLANT SWITCHGEAR
- EXISTING STRUCTURE
- 69 ELECTRICAL SWITCHGEAR SUBSTATION
- EXISTING STRUCTURE
- 70 SECONDARY CLARIFIER ELECTRICAL BUILDING
- 677 GSF, F-2, TYPE II-B (NS)
- 72 ELECTRICAL SWITCHGEAR
- PERMITTED UNDER SEPARATE APPLICATION
- PACKAGE 4



ARCHITECTURAL SITE DIAGRAM
NO SCALE

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



CONSULTANT
MANUEL ONCINA ARCHITECTS INC.
ARCHITECTURE PLANNING INTERIORS
5711 La Jolla Blvd
La Jolla, CA 92037
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DIGITALLY SIGNED: 01/26/2021

PK2-G-020	
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION	
GENERAL ARCHITECTURAL SITE DIAGRAM	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 19 OF 1169 SHEETS	
APPROVED: <i>Juan Oncina</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demuth	DATE: 12/03/2020 C/70321 RCE#
PROJECT MANAGER: MONIKA SMOCZYNSKI	PROJECT ENGINEER: THIEN-LONG TRAN
DESCRIPTION: Addendum B	BY: CH
APPROVED: <i>Juan Oncina</i>	DATE: 2/3/21
DATE STARTED:	DATE COMPLETED:
40381-2019-D	

STATEMENT OF SPECIAL INSPECTIONS

NOTICE TO THE APPLICANT / OWNER / OWNER'S AGENT / ARCHITECT OR ENGINEER OF RECORD

- BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION / INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.

NOTICE TO THE CONTRACTOR / BUILDER / INSTALLER / SUB-CONTRACTOR / OWNER - BUILDER

- BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION / INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF, THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF THE SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.

GENERAL NOTES

- THE STATEMENT OF SPECIAL INSPECTIONS DRAWINGS PROVIDE PROJECT COMPLIANCE WITH THE PROVISIONS OF THE CALIFORNIA BUILDING CODE (CBC) CHAPTER 17 FOR SPECIAL INSPECTION, STRUCTURAL OBSERVATION, AND TESTING FOR WIND AND SEISMIC RESISTANCE AS APPLICABLE, EXCEPT WHERE OTHERWISE NOTED, THIS INSPECTION IS OWNER FURNISHED.
- STANDARD SPECIAL INSPECTION REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS ARE CONTAINED IN TABLE 1 ON DRAWING PK2-G-033.
- STANDARD SPECIAL INSPECTION REQUIREMENTS FOR STRUCTURAL COMPONENTS, REGARDLESS OF WIND OR SEISMIC DESIGN CATEGORIES, ARE CONTAINED IN TABLE 2 ON DRAWINGS PK2-G-033, PK2-G-034 AND PK2-G-035. STANDARD TESTING REQUIREMENTS FOR STRUCTURAL COMPONENTS ARE CONTAINED IN TABLE 3 ON DRAWING PK2-G-035.
- PROJECT SPECIFIC REQUIREMENTS FOR STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORIES C, D, E, OR F ARE CONTAINED IN TABLE 4 ON DRAWING PK2-G-035 AND PK2-G-036. ADDITIONAL TESTING REQUIREMENTS FOR STRUCTURAL RESISTANCE ARE CONTAINED IN TABLE 6 ON DRAWING PK2-G-036.
- PROJECT SPECIFIC REQUIREMENTS FOR STRUCTURES SUBJECT TO NOMINAL DESIGN WIND SPEEDS IN EXCESS OF 100 MPH (ALLOWABLE STRESS DESIGN) ARE CONTAINED IN TABLE 5 ON DRAWING PK2-G-036.
- FOR ADDITIONAL REQUIREMENTS, REFER TO SPECIFICATION SECTION 01 45 33, SPECIAL INSPECTION, OBSERVATION AND TESTING. THESE INCLUDE:
 - CONTRACTOR'S REQUIREMENTS TO PROVIDE ACCESS TO THE WORK FOR REQUIRED INSPECTIONS, AND TO PROVIDE NOTICE OF REQUIRED INSPECTIONS AND STRUCTURAL OBSERVATION.
 - CONTRACTOR'S STATEMENT OF RESPONSIBILITY FOR WORK TO BE PERFORMED ON SYSTEMS DESIGNATED UNDER THE STATEMENT OF SPECIAL INSPECTIONS PLAN FOR WIND OR SEISMIC RESISTANCE.
 - DEFINITIONS AND TERMINOLOGY USED IN THIS STATEMENT OF SPECIAL INSPECTIONS.

SPECIAL INSPECTION

- SPECIAL INSPECTION WILL BE IN ACCORDANCE WITH CBC SECTIONS 1704 AND 1705 TOGETHER WITH LOCAL AND STATE AMENDMENTS. REFER TO THE TABLES CONTAINED ON THESE GENERAL SHEETS FOR PROJECT SPECIFIC INSPECTION TYPES AND FREQUENCIES.
- SPECIAL INSPECTIONS WILL BE PROVIDED BY A CERTIFIED OR QUALIFIED INSPECTOR AND ASSOCIATED TESTING WILL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY. THE OWNER WILL SECURE AND PAY FOR THE SERVICES OF THE AGENCY TO PERFORM ALL SPECIAL INSPECTION AND ASSOCIATED TESTS. INSPECTORS FOR EACH SYSTEM AND MATERIAL WILL BE INTERNATIONAL CODE COUNCIL (ICC) CERTIFIED OR OTHERWISE APPROVED BY THE BUILDING OFFICIAL.
- THE SPECIAL INSPECTOR WILL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONTRACT DOCUMENTS AND SUBMIT RECORDS OF INSPECTION. ALL DISCREPANCIES WILL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
- SPECIAL INSPECTION AND ASSOCIATED TESTING REPORTS WILL BE SUBMITTED TO THE ENGINEER, CONTRACTOR, BUILDING OFFICIAL, AND OWNER WITHIN ONE WEEK OF INSPECTION OR WITHIN ONE WEEK OF TEST COMPLETION. INSPECTIONS FOR WHICH REPORTING WILL BE REQUIRED ARE NOTED IN THE TABLES CONTAINED ON THIS STATEMENT OF SPECIAL INSPECTIONS.
- AT THE CONCLUSION OF CONSTRUCTION, A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF PREVIOUSLY NOTED DISCREPANCIES WILL BE SUBMITTED.
- THE SPECIAL INSPECTOR MUST BE CERTIFIED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.
- THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND EQUIPMENT.
- FABRICATOR MUST BE APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, FOR THE FABRICATION OF MEMBERS AND ASSEMBLIES ON THE PREMISES OF THE FABRICATOR'S SHOP.
- FABRICATOR SHALL SUBMIT AN 'APPLICATION TO PERFORM OFF-SITE FABRICATION' TO THE INSPECTION SERVICES DIVISION FOR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION.
- FABRICATOR SHALL SUBMIT A 'CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION' TO THE INSPECTION SERVICES DIVISION PRIOR TO ERECTION OF FABRICATED ITEMS AND ASSEMBLIES.
- THE SPECIAL INSPECTIONS IDENTIFIED ON PLANS ARE IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A CITY'S BUILDING INSPECTOR.

GEOTECHNICAL OBSERVATION

- ALL FOUNDATION BEARING SURFACES SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA PRIOR TO PLACEMENT OF REINFORCING STEEL. ADDITIONAL SPECIAL INSPECTION REQUIREMENTS ARE LISTED IN TABLE 1 ON DRAWING PK2-G-033.
- GEOTECHNICAL TESTING REQUIREMENTS ARE LISTED IN TABLE 3 ON DRAWING PK2-G-035.

STRUCTURAL OBSERVATION

- STRUCTURAL OBSERVATION WILL BE IN ACCORDANCE WITH CBC SECTION 1704.5 TOGETHER WITH LOCAL AND STATE AMENDMENTS. REFER TO PROJECT SPECIFIC NOTES ON THIS SHEET.
- ON-SITE STRUCTURAL OBSERVATION WILL BE PERFORMED FOR EACH IDENTIFIED SEISMIC FORCE- OR WIND FORCE-RESISTING SYSTEM, INCLUDING FOUNDATIONS AND CONNECTIONS. REFER TO THE GENERAL STRUCTURAL NOTES DRAWING FOR THE BASIC SEISMIC AND WIND FORCE-RESISTING SYSTEMS FOR THE STRUCTURES INCLUDED IN THE WORK.
- STRUCTURAL OBSERVATION WILL BE PERFORMED BY A REGISTERED DESIGN PROFESSIONAL REGISTERED/LICENSED IN THE STATE OF CALIFORNIA FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR ANY REQUIRED SPECIAL INSPECTIONS OR INSPECTIONS BY THE BUILDING OFFICIAL.
- STRUCTURAL OBSERVATION REPORTS, NOTING ANY DEFICIENCIES IN OBSERVED CONSTRUCTION, WILL BE DELIVERED TO THE CONTRACTOR, BUILDING OFFICIAL, AND OWNER FOLLOWING EACH OBSERVATION. THE CONTRACTOR WILL BE NOTIFIED ON-SITE OR BY PHONE OR EMAIL WITHIN 24 HOURS UPON FINDING DEFICIENCIES.
- AT THE CONCLUSION OF CONSTRUCTION, A WRITTEN STATEMENT WILL BE PROVIDED TO VERIFY THAT THE STRUCTURAL OBSERVATION SITE VISITS WERE MADE AND WHETHER THERE REMAIN ANY STRUCTURAL DEFICIENCIES THAT HAVE NOT BEEN RESOLVED.
- STRUCTURAL OBSERVATION WILL INCLUDE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM FOR EACH STRUCTURE CONTAINED IN THE WORK. THE CONTRACTOR SHALL SCHEDULE AND FACILITATE STRUCTURAL OBSERVATION INCLUDING THE ITEMS SHOWN IN THE STRUCTURAL OBSERVATION TABLE.
- THE STRUCTURAL OBSERVER SHALL BE EMPLOYED BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT AND NOT THE CONTRACTOR/BUILDER.

TABLE 1 - STRUCTURAL OBSERVATION STAGES & ITEMS				
	SYSTEM FOR EACH FACILITY AS APPLICABLE	STAGE	ITEMS	COMMENTS
1.	FOUNDATION OF STRUCTURE	PRIOR TO CONCRETE PLACEMENT OF SECTION WHEN ITEMS CAN STILL BE REVISED. SEE COMMENT.	REINFORCING STEEL, CONCRETE AND MASONRY WALL DOWELS, WATERSTOPS, EMBEDS, AND SIMILAR ITEMS	NOTE 1, FREQUENCY, SEE TABLE 2
2.	CONCRETE WALLS OF EACH STRUCTURE	PRIOR TO CONCRETE PLACEMENT OF SECTION WHEN ITEMS CAN STILL BE REVISED. SEE COMMENT.	REINFORCING STEEL, WALL DOWELS, WATERSTOPS, EMBEDS, AND SIMILAR ITEMS	NOTE 1, FREQUENCY, SEE TABLE 2
3.	WALL TO FOUNDATION CONNECTIONS PRIOR TO FORM CLOSURE	PRIOR TO CONCRETE PLACEMENT OF SECTION WHEN ITEMS CAN STILL BE REVISED. SEE COMMENT.		NOTE 1, FREQUENCY, SEE TABLE 2
4.	ELEVATED CONCRETE SLABS AND BEAMS PRIOR TO CONCRETE PLACEMENT	PRIOR TO CONCRETE PLACEMENT OF SECTION WHEN ITEMS CAN STILL BE REVISED. SEE COMMENT.	REINFORCING STEEL, WALL DOWELS, WATERSTOPS, EMBEDS, AND SIMILAR ITEMS	NOTE 1, FREQUENCY, SEE TABLE 2
5.	CONCRETE WALL TO FLOOR AND ROOF CONNECTIONS	PRIOR TO FORM CLOSURE OR CLADDING INSTALLATION OR OTHER COVER. MAY OCCUR AT SAME TIME AS CONCRETE WALL OBSERVATIONS		NOTE 1, FREQUENCY, SEE TABLE 2
6.	CONCRETE STRUCTURES	AT COMPLETION OF PLACEMENT OF ALL CONCRETE COMPONENTS FOR THE LIQUID HOLDING STRUCTURE	CONCRETE TOLERANCES, FINISHING, LIQUID TIGHTNESS, AND SIMILAR ITEMS	NOTE 1
7.	SYSTEM CONNECTION EMBEDS	PRIOR TO GROUT OR CONCRETE PLACEMENT. MAY OCCUR AT SAME TIME AS CONCRETE WALL OBSERVATIONS		NOTE 1
8.	STRUCTURAL STEEL FRAMING	DURING INITIAL CONSTRUCTION OF STEEL FRAMING AT EACH STEEL FRAMED BUILDING PRIOR TO ENCLOSURE OF FRAMING BEHND FINAL FINISHES	MEMBER LOCATIONS AND CONFIGURATIONS, BOLTED AND WELDED CONNECTIONS, AND SIMILAR ITEMS	NOTE 1

NOTES:

- STRUCTURAL OBSERVER TO DISCUSS ITEMS AND SITE SPECIFIC CONDITIONS WITH SPECIAL INSPECTOR AND FIELD INSPECTION STAFF DURING OBSERVATION.
- FOR OBSERVATION FREQUENCY OF DIFFERENT FACILITIES, SEE TABLE 2.

SPECIAL INSPECTIONS FOR WIND RESISTANCE

- SPECIAL INSPECTIONS REQUIREMENTS FOR WIND RESISTANCE IN ACCORDANCE WITH CBC SECTION 1705.10 ARE NOT APPLICABLE TO THIS PROJECT.

SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

- SPECIAL INSPECTIONS REQUIREMENTS FOR SEISMIC RESISTANCE WILL BE IN ACCORDANCE WITH CBC SECTION 1705.12 TOGETHER WITH LOCAL AND STATE AMENDMENTS.
- SPECIAL INSPECTIONS REQUIREMENTS FOR SEISMIC RESISTANCE SHALL APPLY TO THE SYSTEMS AND COMPONENTS LISTED IN TABLE 4 ON DRAWING PK2-G-036.
- MAIN SYSTEMS REQUIRED TO BE COVERED UNDER PROJECT SPECIAL INSPECTION REQUIREMENTS INCLUDE THE FOLLOWING TOGETHER WITH THEIR CONNECTIONS. REFER TO SPECIFICATION 01 45 33, SPECIAL INSPECTION, OBSERVATION AND TESTING.
 - A. CENTRATE VAULT
 - B. 01 - INFLUENT PUMP STATION
 - C. 10 - PRIMARY SEDIMENTATION TANKS AND CONCRETE BUILDING
 - D. 15 - FIRST STAGE BIOREACTOR BASINS AND ELECTRICAL BUILDING
 - E. 16 - SECOND STAGE BIOREACTOR BASINS AND CHEMICAL STORAGE CANOPY
 - F. 23 - SECONDARY CLARIFIERS INCLUDING PROTECTION SLAB AND CIDH PILES
 - G. 25 - TERTIARY FILTERS, METER VAULT, FILTER INFLUENT STRUCTURE AND BUILDING
 - H. 55 - CHEMICAL BUILDING
 - J. 58 - CARBON CHEMICAL FACILITY
 - K. 70 - SECONDARY CLARIFIER ELECTRICAL BUILDING

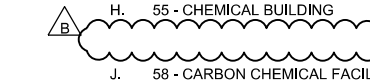


TABLE 2 - NUMBER OF STRUCTURAL OBSERVATIONS FOR DIFFERENT FACILITIES						
FACILITY NAME & NUMBER	FOUNDATION OF STRUCTURE	WALL/FOUNDATION CONNECTION PRIOR TO FORM CLOSE	CONCRETE WALL	WALL/ELEVATED SLAB CONNECTION PRIOR TO FORM CLOSE	ELEVATED SLAB & BEAM	ABOVE GRADE BUILDING STRUCTURE
#10 - PRIMARY SEDIMENTATION TANKS & CONCRETE BUILDING	2	2	4	2	3	2
#15 - FIRST STAGE BIOREACTOR BASINS & ELECTRICAL BUILDING	2	2	4	2	3	2
#16 - SECONDARY STAGE BIOREACTOR BASINS & CONCRETE CANOPY	2	2	4	2	3	1
#23 - PROTECTION SLAB	2 VISITS FOR PILE REINFORCING	N/A	N/A	N/A	2	N/A
#23 - SECONDARY CLARIFIERS & RAS PUMP STATION	4	—	8, INCLUDING 2 EXTERIOR RAS WALLS	—	2	—
#23 - INFLUENT DISTRIBUTION STRUCTURE	1	—	1	—	—	—
#25 - TERTIARY FILTERS & CONCRETE BUILDING, METER VAULT & FILTER INFLUENT BASIN	4	2	4	2	2	2
ALL OTHER STRUCTURES - FOR EACH FACILITY	1	1	1	1	1	
ALL STRUCTURES	SEE NOTES 2 & 3					

NOTES:

- FOR OBSERVATION STAGES AND ITEMS SEE TABLE 1.
- AT ADDITIONAL TIMES DURING CONSTRUCTION AT WHICH THE ENGINEER OF RECORD OR OWNER DEEM THE NEED FOR ADDITIONAL STRUCTURAL OBSERVATION
- AT SUBSTANTIAL COMPLETION OF PRIMARY STRUCTURAL SYSTEM FOR DETERMINATION OF FINAL CONDITION OF STRUCTURE

PK2-G-032

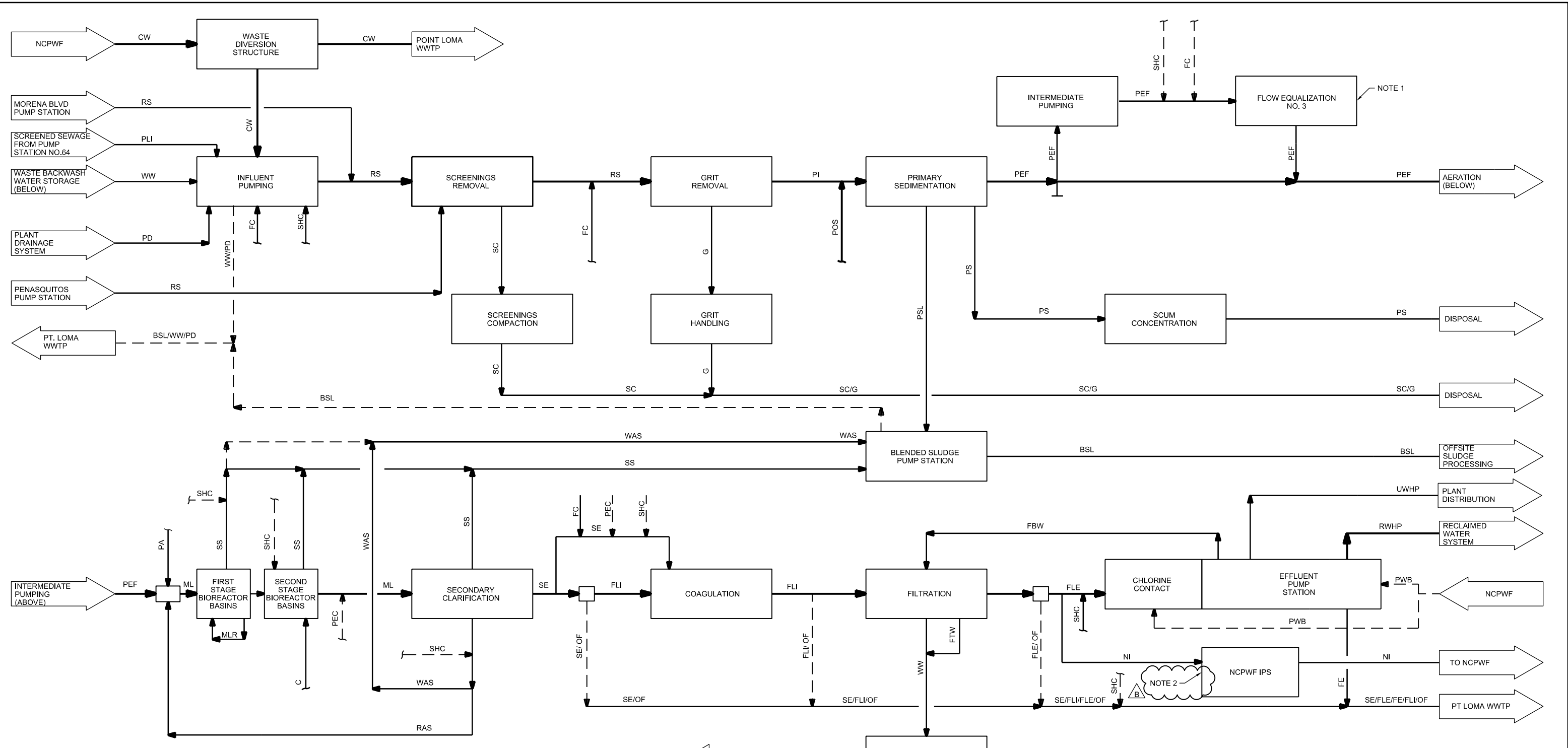
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION GENERAL STRUCTURAL STATEMENT OF SPECIAL INSPECTIONS - 1		CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 29 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>John Smith</i> FOR CITY ENGINEER	DATE: 12/03/2020 C70321	PROJECT MANAGER: MONIKA SMO CZYNSKI		
PRINT DCE NAME: Andrea Demich	RCE#: _____	PROJECT ENGINEER: THIEN-LONG TRAN		
DESCRIPTION Addendum B	BY CH	APPROVED <i>John Smith</i>	DATE 2/3/21	
PROJECT ENGINEER: 260-1709 CCS27 COORDINATE: 1900-6269 CCS83 COORDINATE: _____		DATE STARTED: _____ DATE COMPLETED: _____		
CONTRACTOR: _____		INSPECTOR: _____		

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

DIGITALLY SIGNED: 01/26/2021



- NOTE:
- 1. AREA OF WORK FOR PACKAGE 1.
 - 2. AREA OF WORK FOR PACKAGE 3.

WARNING
 0 1
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CONSULTANT



DIGITALLY SIGNED: 01/26/2021

NCRWP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION PROCESS GENERAL PROCESS FLOW DIAGRAM		PK2-G-100
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 42 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Diemlich	DATE: 12/03/2020 RCE#: C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION Addendum B	BY CH	APPROVED <i>[Signature]</i>
		DATE 2/3/21
		FILM
		PROJECT ENGINEER THIEN-LONG TRAN
		260-1709 CCS27 COORDINATE
		1900-6269 CCS83 COORDINATE
CONTRACTOR INSPECTOR	DATE STARTED DATE COMPLETED	40381-2042-D

PACKAGE 2 - PIPING SCHEDULE

Table with columns: LEGEND (NOTE 1), SERVICE, SIZE (NOTE 2), SPEC SECTION, MATERIAL (NOTE 3), INSTALLATION, TEST PRESSURE/TYPE (NOTE 4), MAXIMUM OPERATING PRESSURE, LINING (NOTE 5), COATING SYSTEM (NOTE 6), COLOR CODE, REMARKS. Contains multiple rows of piping specifications.

Handwritten note: B 12", 14", AND 24"

PK2-G-103

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION PROCESS GENERAL PIPING SCHEDULE - 1

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 45 OF 1169 SHEETS

Approval table with columns: DESCRIPTION, BY, APPROVED, DATE, FILM. Includes entries for Addendum A and B.

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CONTRACTOR INSPECTOR DATE STARTED DATE COMPLETED 40381-2045-D

THE CONTRACTOR SHALL MONITOR MOVEMENTS OF CRITICAL STRUCTURES AND FACILITIES WITHIN 100 FEET OF EXCAVATION. THE CONTRACTOR SHALL DESIGN, PROVIDE, AND MAINTAIN SHORING, SHEETING, AND BRACING AS NECESSARY TO SUPPORT THE SIDES OF EXCAVATIONS AND TO PREVENT DETRIMENTAL SETTLEMENT AND LATERAL MOVEMENT OF EXISTING FACILITIES, ADJACENT PROPERTY, AND COMPLETED WORK. THE EXCAVATION SUPPORT SHALL BE CARRIED OUT IN SUCH A MANNER AS TO PREVENT UNDERMINING OR DISTURBING FOUNDATIONS OF EXISTING STRUCTURES OF WORK ONGOING OR PREVIOUSLY COMPLETED. THE CONTRACTOR SHALL REMAIN RESPONSIBLE FOR THE ADEQUACY AND SAFETY OF THE MEANS, METHODS, AND SEQUENCING OF CONSTRUCTION.

SEE SECTION 01 31 13 OF THE PROJECT SPECIFICATIONS FOR PROJECT COORDINATION AND CONSTRUCTION SEQUENCING

FACILITY LEGEND:




- 01 INFLUENT PUMP STATION
- 05 HEADWORKS
- 10 PRIMARY SEDIMENTATION TANKS
- 11 INTERMEDIATE PUMP STATION RAS PE MIXERS
- 12 FLOW EQUALIZATION BASINS
- 15 FIRST STAGE BIOREACTOR BASINS
- 16 SECOND STAGE BIOREACTOR BASINS
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- 21 FILTER INFLUENT STRUCTURE
- 23 SECONDARY CLARIFIERS
- 25 TERTIARY FILTERS
- 26 WASTE BACKWASH TANK
- 30 CHLORINE CONTACT BASIN
- 33 EFFLUENT DROP STRUCTURE
- 34 EFFLUENT PUMP STATION
- 36 NCPWF INFLUENT PUMP STATION
- 45 BLENDED SLUDGE PUMP STATION
- 50 STORMWATER PUMP STATION
- 51 OPERATIONS BUILDING

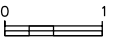
- 55 CHEMICAL BUILDING
- 56 NOT USED
- 57 DISINFECTION FEED FACILITY
- 58 CARBON CHEMICAL FACILITY
- 60 ODOR CONTROL FACILITY
- 61 - 67 ELECTRICAL SUBSTATIONS
- 64B POWER GENERATION FACILITY
- 68 ELECTRICAL MAIN PLANT SWITCHGEAR
- 69 ELECTRICAL SWITCHGEAR SUBSTATION
- 70 SECONDARY CLARIFIER ELECTRICAL BUILDING
- 72 ELECTRICAL SWITCHGEAR

TREE AND VEGETATION PRESERVATION NOTES:

PROTECTION FOR EXISTING TREES AND VEGETATION TO REMAIN ON SITE SHALL BE PROVIDED AS FOLLOWS:

- TO PROTECT EXISTING TREES WITHIN THE TREE PRESERVATION AREA INDICATED ON THE DRAWINGS, INSTALL STURDY METAL CONSTRUCTION FENCING (5' HIGH MINIMUM) AROUND THE DRIP LINE OF THE ENTIRE CLUSTER OF TREES TO BE PRESERVED. TO PROTECT EXISTING VEGETATION IN OTHER AREAS (NOT IMPACTED BY CONSTRUCTION), INSTALL ORANGE TEMPORARY FENCING AROUND DRIP LINE OF ENTIRE VEGETATION CLUSTER.
- THE FOLLOWING ACTIVITIES ARE FULLY RESTRICTED WITHIN THE FENCED PROTECTION AREAS: STOCKPILING, TOPSOIL DISTURBANCE, DIGGING OR EXCAVATION, FLOODING OR EROSION, EXCESSIVE WETTING OR DRYING, CHEMICAL SPILLS, VEHICULAR USE, FOOT TRAFFIC, AND STORAGE OF ANY KIND, INCLUDING CONSTRUCTION MATERIALS.
- MAINTAIN THE EXISTING GRADE WITHIN THE DRIP LINE OF ALL TREES DESIGNATED FOR PRESERVATION.
- PRUNING OF TREE CANOPY OR TREE ROOTS SHALL NOT BE PERMITTED WITHOUT WRITTEN RECOMMENDATION OF A CERTIFIED CONSULTING ARBORIST, SUBMITTED AND APPROVED BY THE CITY ENGINEER.
- MAINTAIN AND DOCUMENT ADEQUATE WATERING SCHEDULE DURING ALL STAGES OF CONSTRUCTION FOR EXISTING TREE PROTECTION AREAS AND LANDSCAPE AREAS.
- FAILURE TO PROPERLY PROTECT THE IDENTIFIED TREES WILL RESULT IN CHARGES TO THE CONTRACTOR BASED UPON THE DEGREE OF DAMAGE AS ASSESSED BY THE CERTIFIED CONSULTING ARBORIST. TREES THAT HAVE BEEN SEVERELY DAMAGED SHALL BE REPLACED WITH TREE OF IDENTICAL SPECIES AND CALIPER SIZE OR 6" MINIMUM CALIPER SIZED TREE OF THE SAME SPECIES.
- DAMAGED OR DEAD SHRUBS AND GROUND COVER SHALL BE REPLACED WITH THE SAME SPECIES AND SIZES AS COORDINATED WITH THE PROJECT LANDSCAPE ARCHITECT.
- SEE WHITEBOOK AND TREE PROTECTION SPECIFICATIONS SECTION 01 56 39 FOR ADDITIONAL INFORMATION.
- EXISTING IRRIGATION SYSTEMS SHALL REMAIN OPERATIONAL ON ALL TREES WITHIN PRESERVATION AREAS, AS WELL AS OTHER MATURE VEGETATION IN OTHER AREAS OF THE SITE NOT IMPACTED BY CONSTRUCTION. IN ORDER TO REMAIN OPERATIONAL, SYSTEM COMPONENTS SHALL BE RELOCATED AND/OR REPAIRED AS NECESSARY TO PROVIDE ADEQUATE WATER FOR THE ON-GOING HEALTH AND VIGOR OF ALL PROTECTED PLANTINGS, DURING ALL STAGES OF CONSTRUCTION.
- ENSURE EXISTING IRRIGATION CONTROL ZONES ARE FUNCTIONAL, OPERATING PROPERLY IN REGARD TO NOZZLE PERFORMANCE, HEAD TO HEAD COVERAGE, AND ARE SCHEDULED TO RUN ACCORDING TO SEASONAL WATER DEMAND.

-  ANY PARKING SPACES LOST DUE TO CONSTRUCTION IMPACTS SHALL BE REPLACED AT A 1:1 RATIO IN THE AREAS IDENTIFIED AS "ALTERNATIVE PARKING AREAS"
-  TREE PRESERVATION AREAS
-  MATURE VEGETATION PROTECTION AREAS

WARNING

 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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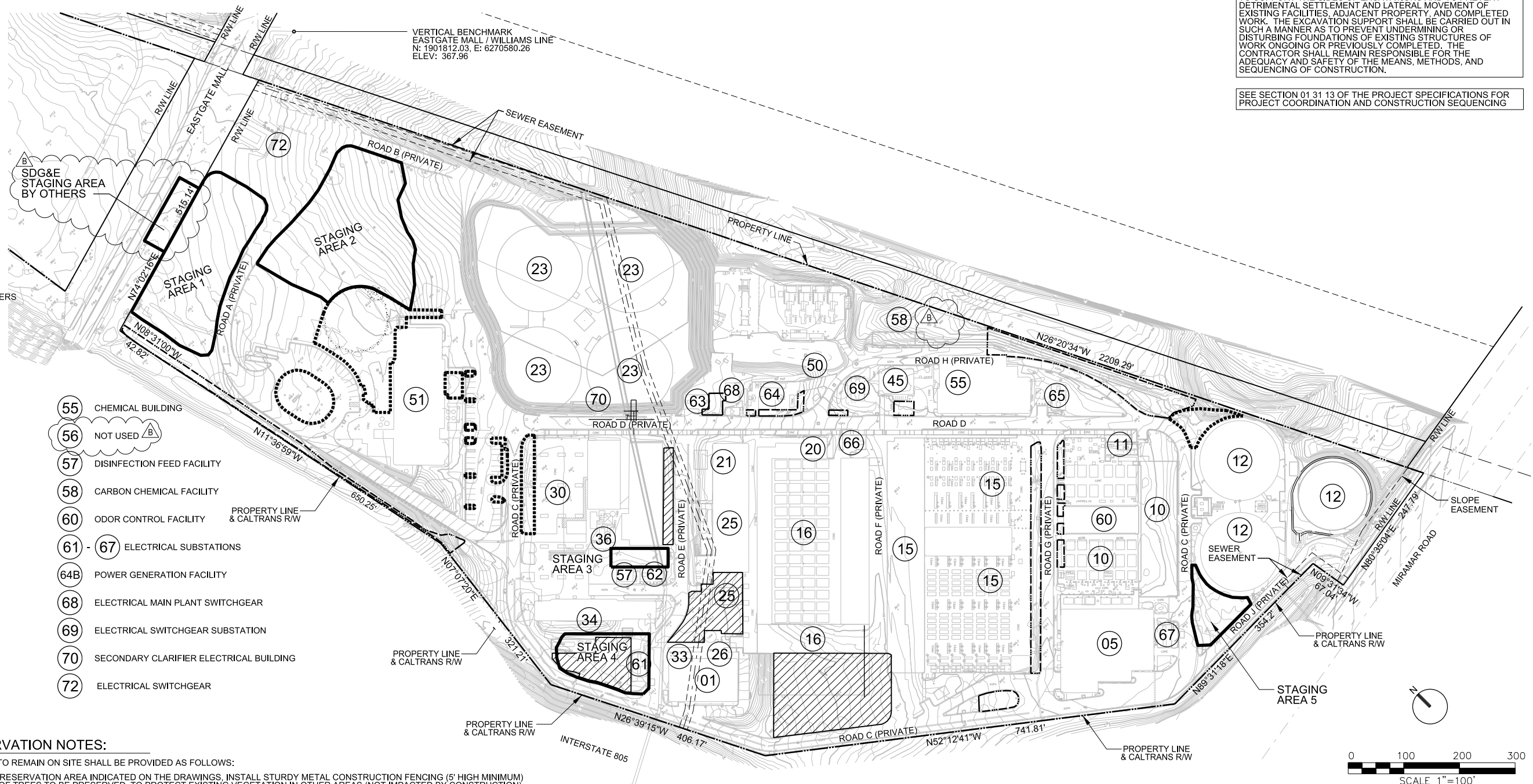
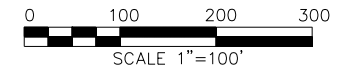


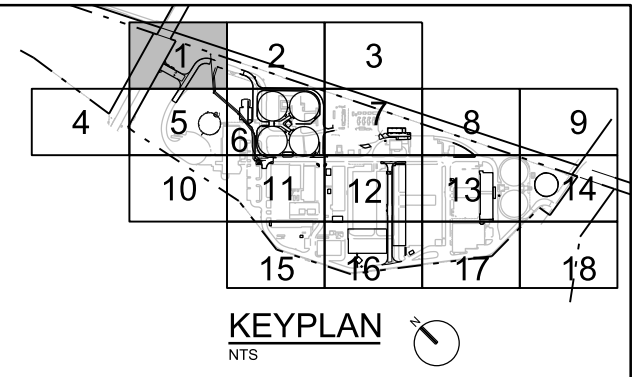
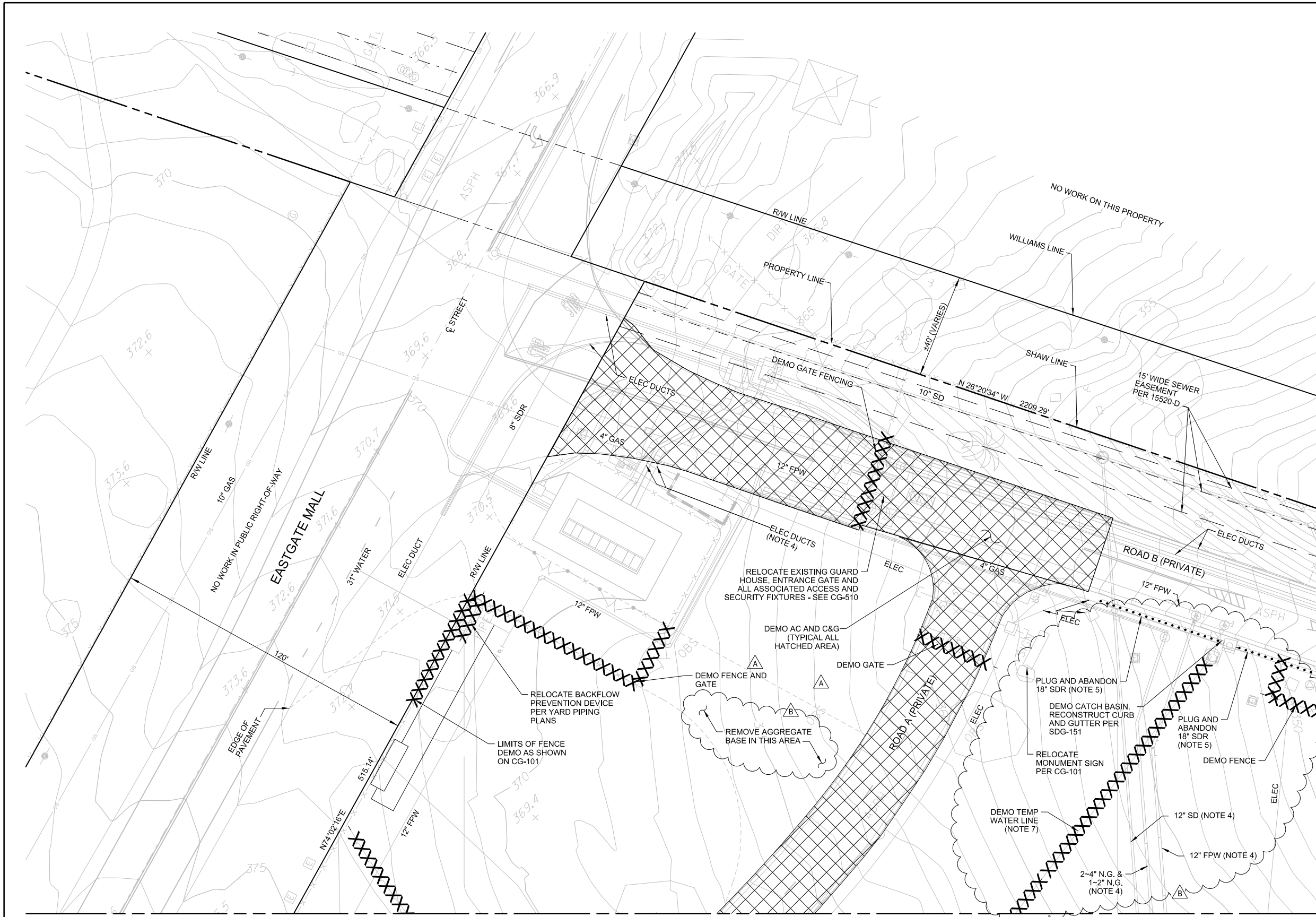
DIGITALLY SIGNED: 01/27/2021

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 57 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich DATE: 12/03/2020 C/0321 RCE#	DATE: 12/03/2020 C/0321 RCE#	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER PROJECT ENGINEER: THIEN-LONG TRAN
DESCRIPTION	BY	APPROVED
▲ Addendum B	CH	<i>[Signature]</i>
		DATE
		2/3/21
		FIRM
		260-1709
		1900-6269
		CCS83 COORDINATE
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED

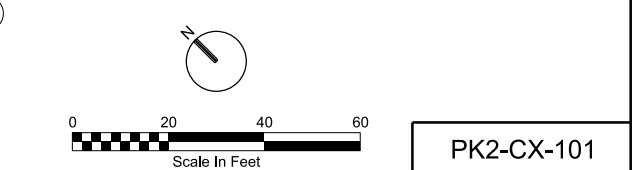
PK2-C-001

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL SITE STAGING PLAN





- NOTES:**
- SEE DWG Y-101 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - PRIOR TO ABANDONMENT, CONTRACTOR TO DETERMINE IF THERE ARE ANY UPSTREAM CONNECTIONS TO EXISTING STORM DRAIN. IF UPSTREAM CONNECTIONS ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF WORK IMMEDIATELY.
 - EXISTING IRRIGATION PIPING NOT SHOWN. IF EXISTING PIPING IS DAMAGED, REPLACE IN KIND, REFER TO NCWRP RECORD DRAWINGS FOR EXISTING IRRIGATION PIPING.
 - TEMP TRAILER, PARKING LOT, AND UTILITIES SHALL BE MAINTAINED DURING CONSTRUCTION AND DEMO'D UPON COMPLETION OF PROJECT



PK2-CX-101

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
**CIVIL
SITE DEMOLITION
PLAN - AREA 1**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 58 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER	DATE 12/03/2020 C/20321	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	RCE#	CREATED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Andrea Demich</i>
▲ Addendum B	CH	<i>Andrea Demich</i>
		DATE
		1/15/21
		2/3/21
		DATE STARTED
		DATE COMPLETED

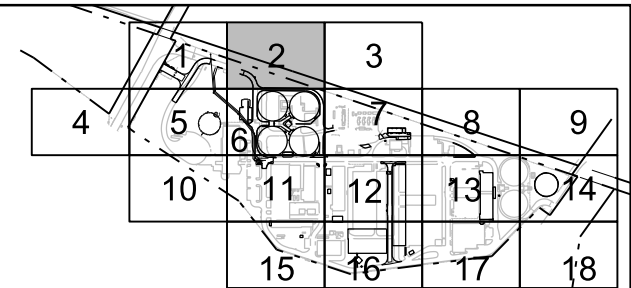
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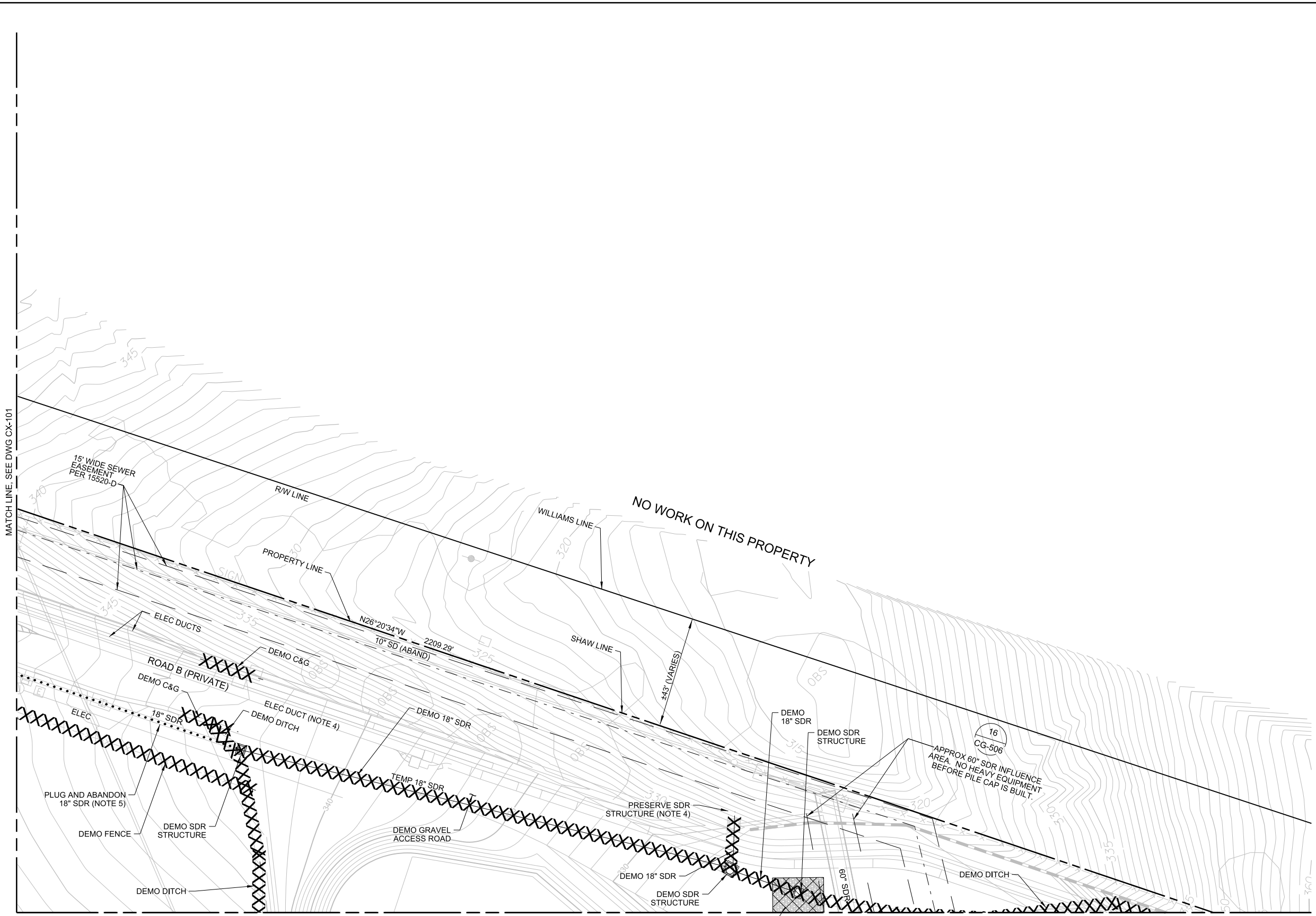
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Surveying

DIGITALLY SIGNED: 01/27/2021

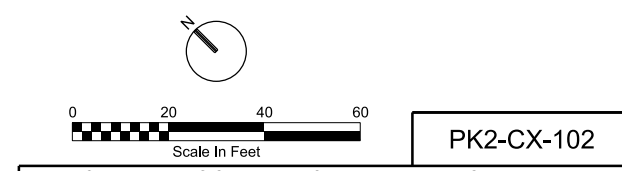
CONTRACTOR _____
INSPECTOR _____



KEYPLAN
NTS



- NOTES:
- SEE DWG Y-102 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - CONTRACTOR TO DETERMINE IF THERE ARE ANY UPSTREAM CONNECTIONS TO EXISTING STORM DRAIN TO BE ABANDONED. IF UPSTREAM CONNECTIONS ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF WORK IMMEDIATELY.
 - EXISTING IRRIGATION PIPING NOT SHOWN. IF EXISTING PIPING IS DAMAGED, REPLACE IN KIND. REFER TO NCWRP RECORD DRAWINGS FOR EXISTING IRRIGATION PIPING.



PK2-CX-102

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL SITE DEMOLITION PLAN - AREA 2

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 59 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: FOR CITY ENGINEER PRINT DCE NAME ANDREA DIEMICH	DATE 12/03/2020 C70321	SUBMITTED BY MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Andrea Diemich</i>
▲ Addendum B	CH	<i>Andrea Diemich</i>
		DATE
		1/15/21
		2/3/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
		40381-2059-D

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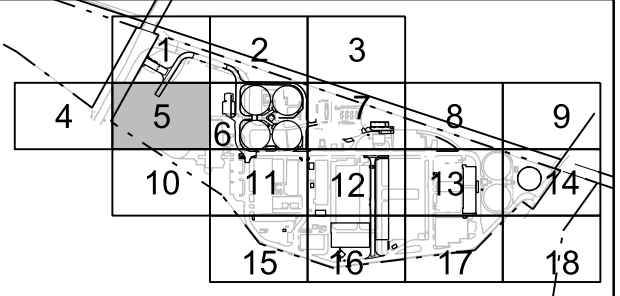
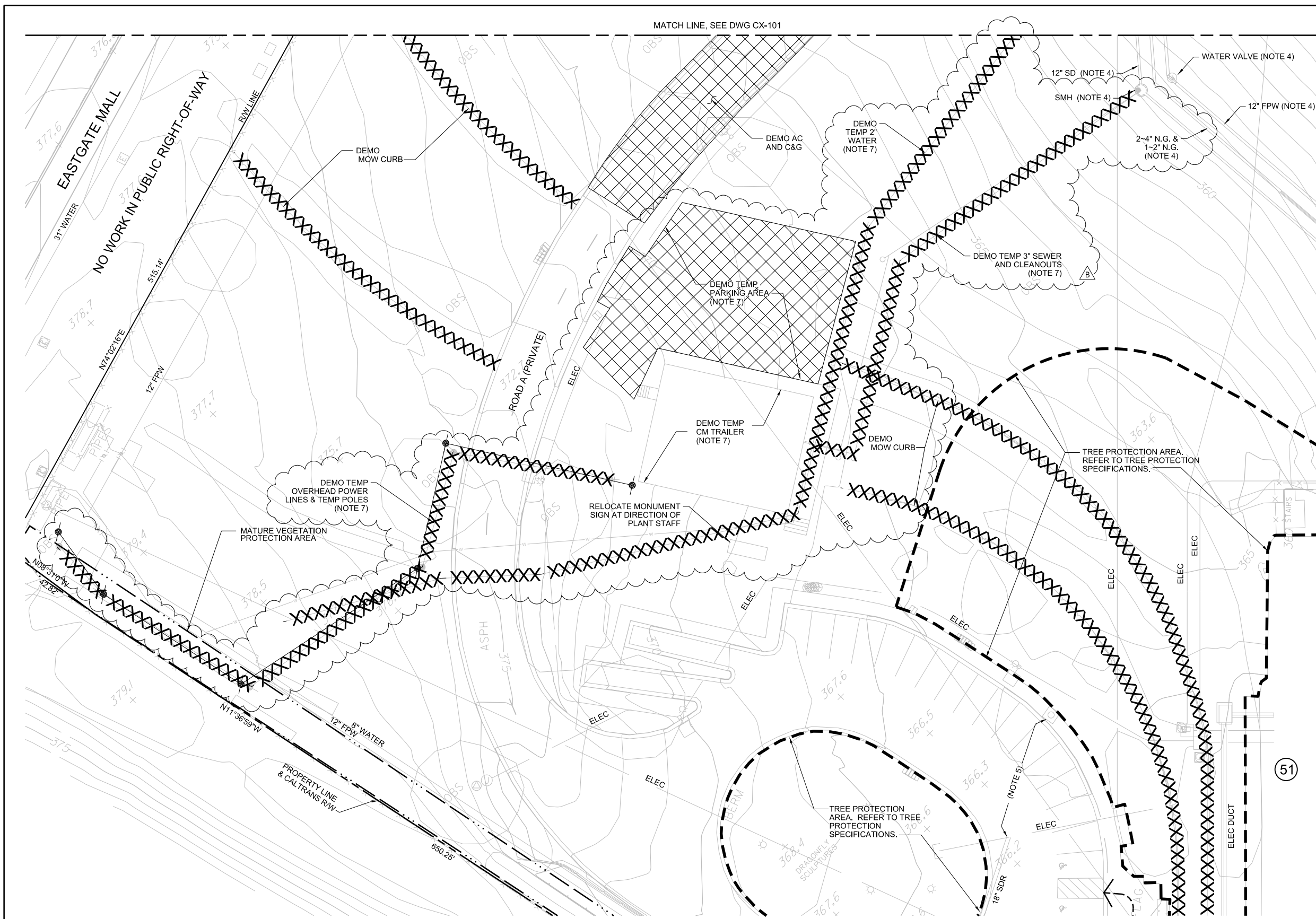
Civil Engineering
Planning
Processing
Surveying

REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSON
NO. 60223
SIP 6-30-2002
CIVIL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 01/27/2021

CONTRACTOR
INSPECTOR

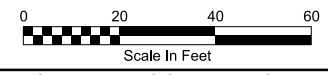
DATE STARTED
DATE COMPLETED

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



- NOTES:**
1. SEE DWG Y-105 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 2. COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 3. SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 4. EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 5. 18" SDR TO BE DEMOLISHED AND REPLACED DURING NCPWF INFLUENT PUMP STATION AND CONVEYANCE PROJECT.
 6. EXISTING IRRIGATION PIPING NOT SHOWN. IF EXISTING PIPING IS DAMAGED, REPLACE IN KIND. REFER TO NCWRP RECORD DRAWINGS FOR EXISTING IRRIGATION PIPING.
 7. TEMP TRAILER, PARKING LOT, AND UTILITIES SHALL BE MAINTAINED DURING CONSTRUCTION AND DEMO'D UPON COMPLETION OF PROJECT

- MATURE VEGETATION PROTECTION AREAS:**
1. INSTALL PROTECTION FENCING AROUND MATURE SHRUBS TO LIMIT TOPSOIL DISTURBANCE, ROOT DAMAGE OR FOLIAGE DAMAGE.
 2. MAINTAIN EXISTING GRADE WITHIN THESE DESIGNATED PROTECTION AREAS.
 3. IRRIGATION IN THESE AREAS SHALL BE MAINTAINED OR ESTABLISHED TO KEEP VEGETATION IN HEALTHY CONDITION DURING ALL STAGES OF CONSTRUCTION. SUBMIT LANDSCAPE WATERING SCHEDULE PRIOR TO BEGINNING ANY SITE WORK.
 4. VEHICLE USE, FOOT TRAFFIC, AND STORAGE OF ANY KIND IS PROHIBITED WITHIN PROTECTED LANDSCAPE AREAS.
 5. AREAS SHALL BE PROTECTED FROM FLOODING, EROSION, CHEMICAL SPILLS, AND EXCESSIVE WETTING AND DRYING.
 6. CONTRACTOR SHALL REPLACE VEGETATION THAT HAS DIED WITH NEW CONTAINER PLANTS OF SIMILAR TYPE, SIZE AND CHARACTER TO BE COORDINATED WITH CITY STAFF AND LANDSCAPE ARCHITECT.



PK2-CX-105

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
**CIVIL
 SITE DEMOLITION
 PLAN - AREA 5**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 60 OF 1169 SHEETS				B-16149, S-17012 WBS B-15142
APPROVED: <i>Janice</i>	DATE: 12/03/2020	FOR CITY ENGINEER: Andrea Demuth	PRINT DCE NAME: Janice	PROJECT ENGINEER: MONIKA SMOCZYNSKI
DESCRIPTION	BY	APPROVED	DATE	FIRM
▲ Addendum B	CH	<i>Janice</i>	2/3/21	260-1709
				1900-6269
				40381-2060-D
CONTRACTOR			DATE STARTED	INSPECTOR
			DATE COMPLETED	

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REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
No. 60223
Exp. 6-30-2022
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

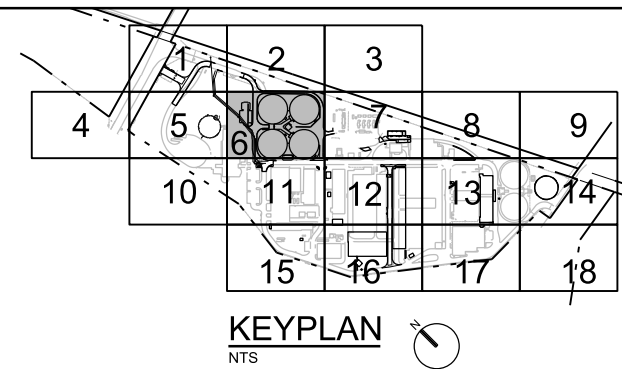
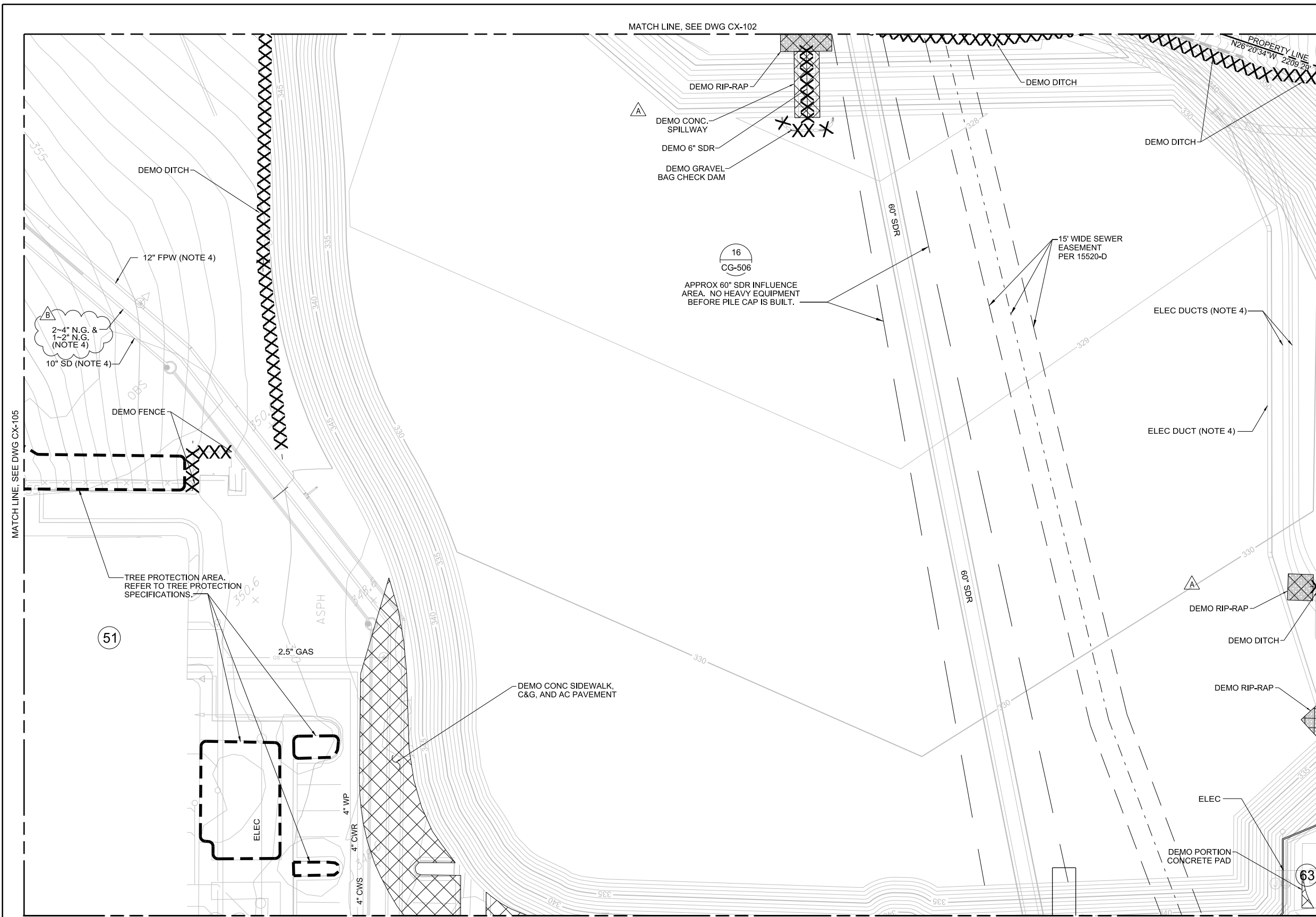
CONTRACTOR

INSPECTOR

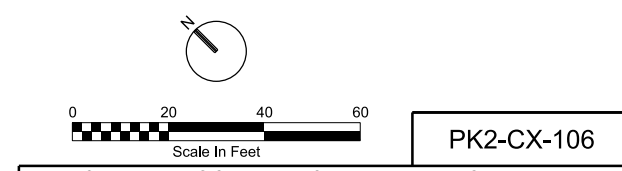
WARNING

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



- NOTES:**
- SEE DWG Y-106 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - EXISTING IRRIGATION PIPING NOT SHOWN. IF EXISTING PIPING IS DAMAGED, REPLACE IN KIND. REFER TO NCWRP RECORD DRAWINGS FOR EXISTING IRRIGATION PIPING.



PK2-CX-106
 NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 2 - NORTH CITY WRP EXPANSION
**CIVIL
 SITE DEMOLITION
 PLAN - AREA 6**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 61 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142		
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 DATE: 1/15/21 DATE: 2/3/21	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CREATED BY: THIEN-LONG TRAN PROJECT ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FILM
▲ Addendum A	CH	<i>[Signature]</i>	1/15/21	260-1709
▲ Addendum B	CH	<i>[Signature]</i>	2/3/21	1900-6269
CONTRACTOR: _____ DATE STARTED: _____ INSPECTOR: _____ DATE COMPLETED: _____				

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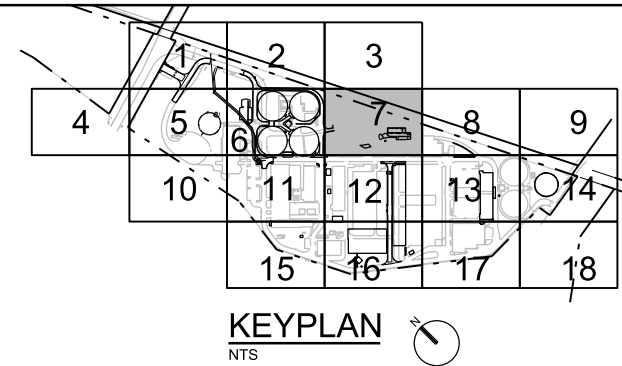
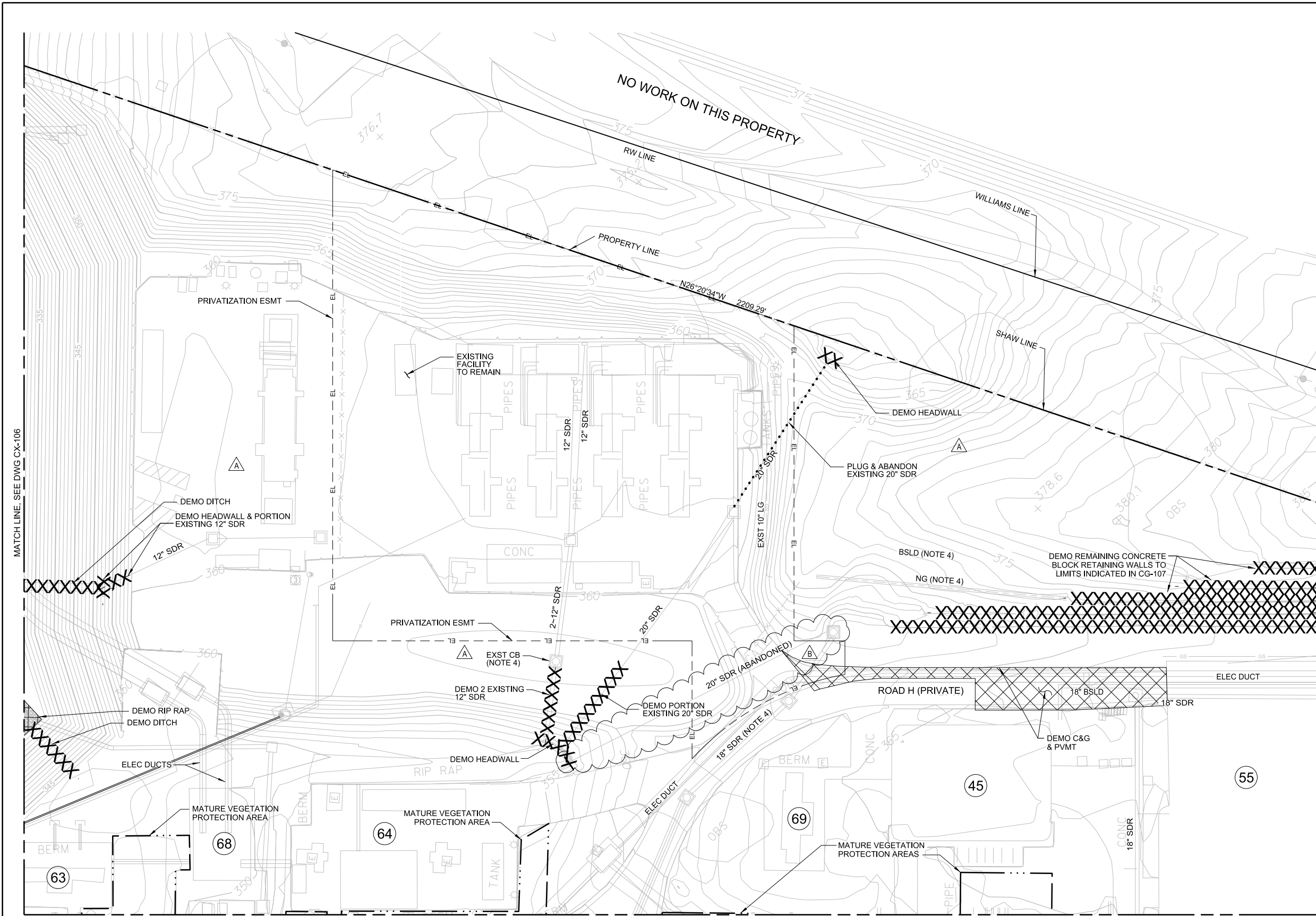
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REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 NO. 60223
 EXP. 6-30-2023
 CIVIL
 DIGITALLY SIGNED: 01/27/2021

WARNING

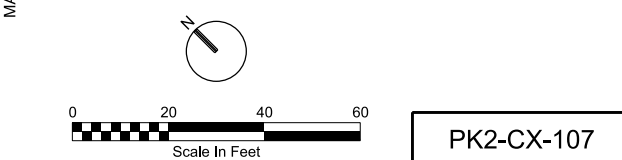
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



- NOTES:**
- SEE DWG Y-107 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - EXISTING IRRIGATION PIPING NOT SHOWN. IF EXISTING PIPING IS DAMAGED, REPLACE IN KIND. REFER TO NCWRP RECORD DRAWINGS FOR EXISTING IRRIGATION PIPING.

- MATURE VEGETATION PROTECTION AREAS:**
- INSTALL PROTECTION FENCING AROUND MATURE SHRUBS TO LIMIT TOPSOIL DISTURBANCE, ROOT DAMAGE OR FOLIAGE DAMAGE.
 - MAINTAIN EXISTING GRADE WITHIN THESE DESIGNATED PROTECTION AREAS.
 - IRRIGATION IN THESE AREAS SHALL BE MAINTAINED OR ESTABLISHED TO KEEP VEGETATION IN HEALTHY CONDITION DURING ALL STAGES OF CONSTRUCTION. SUBMIT LANDSCAPE WATERING SCHEDULE PRIOR TO BEGINNING ANY SITE WORK.
 - VEHICLE USE, FOOT TRAFFIC, AND STORAGE OF ANY KIND IS PROHIBITED WITHIN PROTECTED LANDSCAPE AREAS.
 - AREAS SHALL BE PROTECTED FROM FLOODING, EROSION, CHEMICAL SPILLS, AND EXCESSIVE WETTING AND DRYING.
 - CONTRACTOR SHALL REPLACE VEGETATION THAT HAS DIED WITH NEW CONTAINER PLANTS OF SIMILAR TYPE, SIZE AND CHARACTER TO BE COORDINATED WITH CITY STAFF AND LANDSCAPE ARCHITECT.



PK2-CX-107
 NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL SITE DEMOLITION PLAN - AREA 7

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 62 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>[Signature]</i>
▲ Addendum B	CH	<i>[Signature]</i>
		DATE
		1/15/21
		2/3/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
		40381-2062-D

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REGISTERED PROFESSIONAL ENGINEER
KETH W. HANSEN
NO. 60223
Exp. 6-30-2022
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

CONTRACTOR _____
INSPECTOR _____

DATE STARTED _____
DATE COMPLETED _____

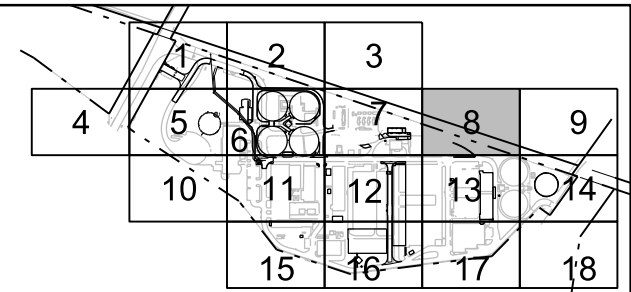
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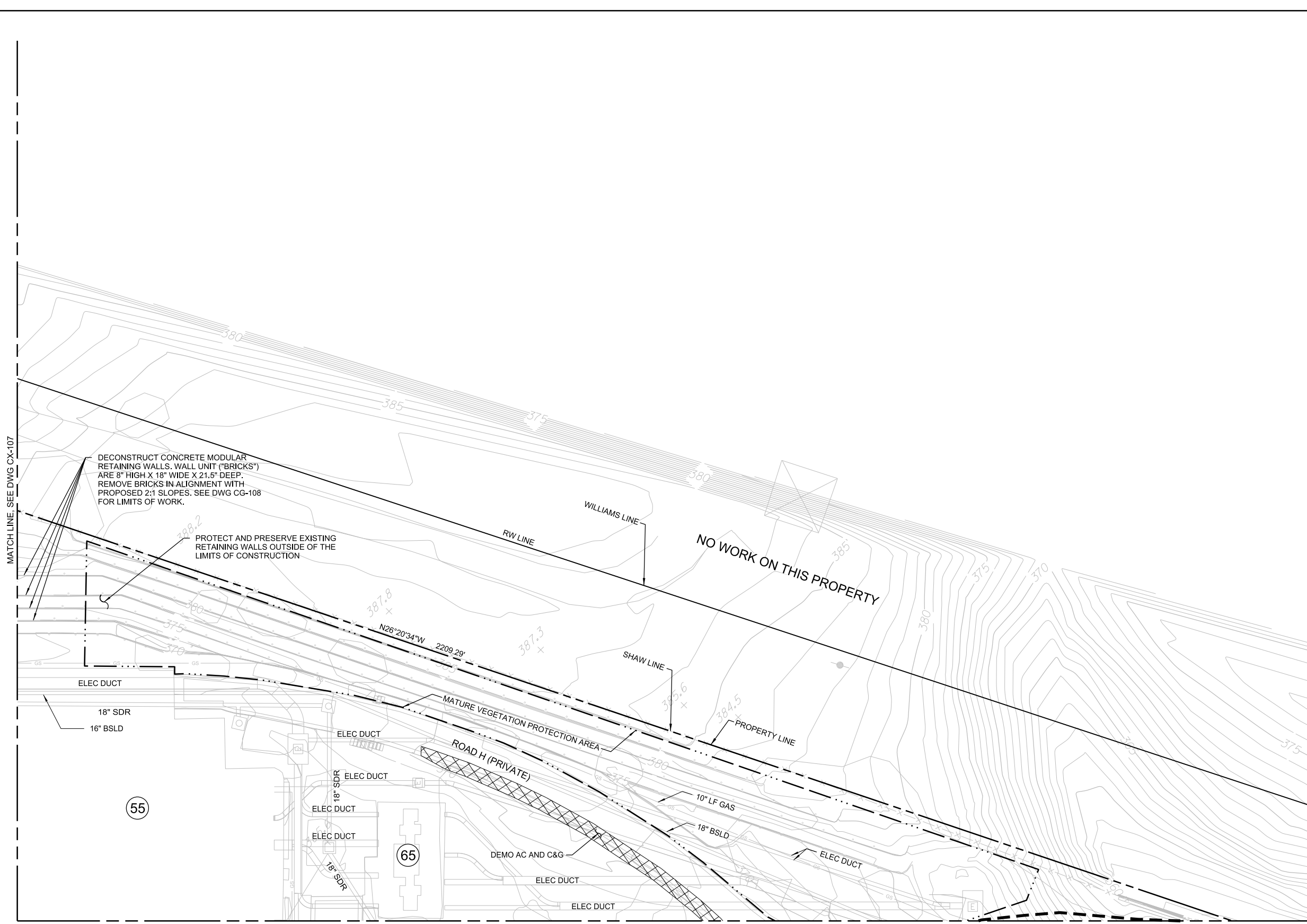
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MATCH LINE, SEE DWG CX-106

MATCH LINE, SEE DWG CX-112

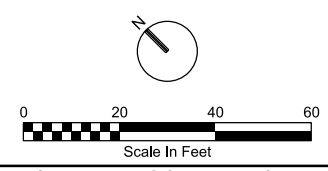


KEYPLAN
NTS



- NOTES:**
- SEE DWG Y-108 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EXISTING IRRIGATION PIPING NOT SHOWN. IF EXISTING PIPING IS DAMAGED, REPLACE IN KIND. REFER TO NCWRP RECORD DRAWINGS FOR EXISTING IRRIGATION PIPING.

- MATURE VEGETATION PROTECTION AREAS:**
- INSTALL PROTECTION FENCING AROUND MATURE SHRUBS TO LIMIT TOPSOIL DISTURBANCE, ROOT DAMAGE OR FOLIAGE DAMAGE.
 - MAINTAIN EXISTING GRADE WITHIN THESE DESIGNATED PROTECTION AREAS.
 - IRRIGATION IN THESE AREAS SHALL BE MAINTAINED OR ESTABLISHED TO KEEP VEGETATION IN HEALTHY CONDITION DURING ALL STAGES OF CONSTRUCTION. SUBMIT LANDSCAPE WATERING SCHEDULE PRIOR TO BEGINNING ANY SITE WORK. VEHICLE USE, FOOT TRAFFIC, AND STORAGE OF ANY KIND IS PROHIBITED WITHIN PROTECTED LANDSCAPE AREAS.
 - AREAS SHALL BE PROTECTED FROM FLOODING, EROSION, CHEMICAL SPILLS, AND EXCESSIVE WETTING AND DRYING. CONTRACTOR SHALL REPLACE VEGETATION THAT HAS DIED WITH NEW CONTAINER PLANTS OF SIMILAR TYPE, SIZE AND CHARACTER TO BE COORDINATED WITH CITY STAFF AND LANDSCAPE ARCHITECT.



PK2-CX-108

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION
CIVIL SITE DEMOLITION PLAN - AREA 8

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 63 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESIGNER: <i>[Signature]</i> THIEN-LONG TRAN PROJECT ENGINEER	DATE: 2/3/21	PROJECT NO: 260-1709
DESCRIPTION: Addendum B	BY: CH	COORDINATE: CCS27 COORDINATE: 1900-6269 CCS83 COORDINATE:
CONTRACTOR	DATE STARTED	40381-2063-D
INSPECTOR	DATE COMPLETED	

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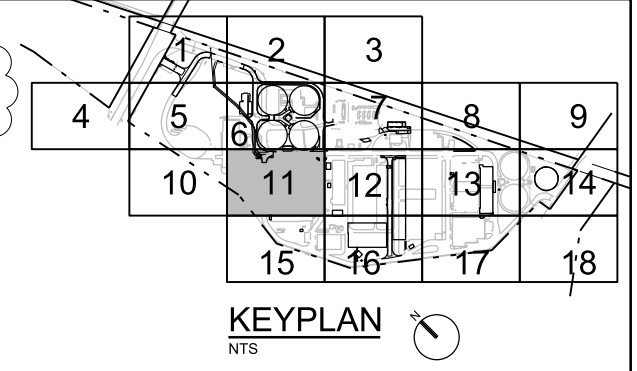
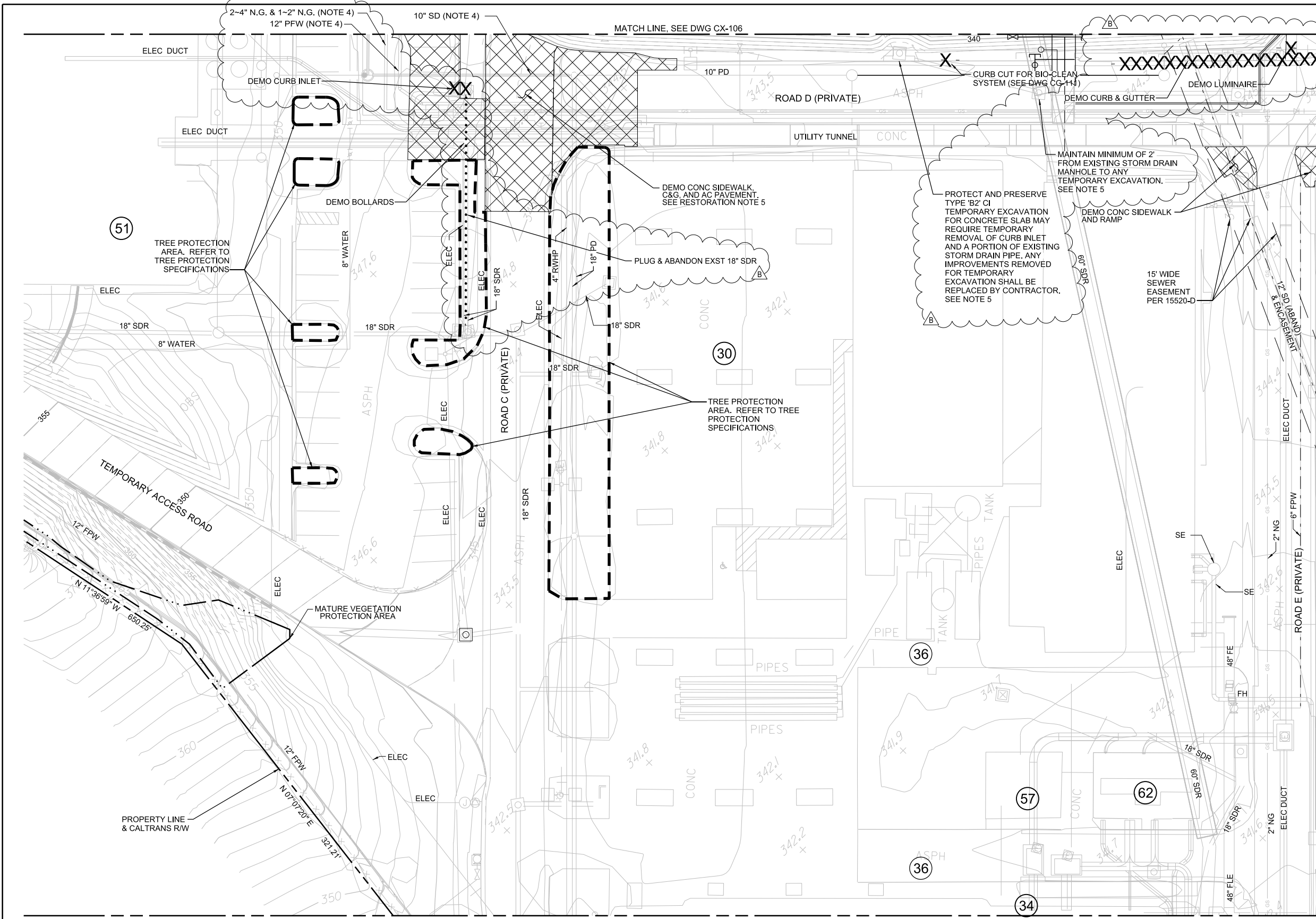
REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSON
NO. 60223
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

WARNING

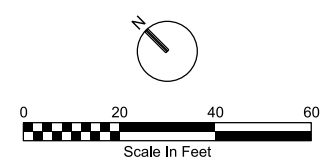
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



- NOTES:**
- SEE DWG Y-111 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE SECTION 400 "PROTECTION AND RESTORATION" AND SECTION 401 "REMOVAL" OF THE 2018 GREEN BOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS MODIFIED BY THE CITY OF SAN DIEGO SUPPLEMENTAL WHITEBOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
 - EXISTING IRRIGATION PIPING NOT SHOWN. IF EXISTING PIPING IS DAMAGED, REPLACE IN KIND. REFER TO NCRWP RECORD DRAWINGS FOR EXISTING IRRIGATION PIPING.

- MATURE VEGETATION PROTECTION AREAS:**
- INSTALL PROTECTION FENCING AROUND MATURE SHRUBS TO LIMIT TOPSOIL DISTURBANCE, ROOT DAMAGE OR FOLIAGE DAMAGE.
 - MAINTAIN EXISTING GRADE WITHIN THESE DESIGNATED PROTECTION AREAS.
 - IRRIGATION IN THESE AREAS SHALL BE MAINTAINED OR ESTABLISHED TO KEEP VEGETATION IN HEALTHY CONDITION DURING ALL STAGES OF CONSTRUCTION. SUBMIT LANDSCAPE WATERING SCHEDULE PRIOR TO BEGINNING ANY SITE WORK. VEHICLE USE, FOOT TRAFFIC, AND STORAGE OF ANY KIND IS PROHIBITED WITHIN PROTECTED LANDSCAPE AREAS.
 - AREAS SHALL BE PROTECTED FROM FLOODING, EROSION, CHEMICAL SPILLS, AND EXCESSIVE WETTING AND DRYING. CONTRACTOR SHALL REPLACE VEGETATION THAT HAS DIED WITH NEW CONTAINER PLANTS OF SIMILAR TYPE, SIZE AND CHARACTER TO BE COORDINATED WITH CITY STAFF AND LANDSCAPE ARCHITECT.



PK2-CX-111

**CIVIL
SITE DEMOLITION
PLAN - AREA 11**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 64 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: FOR CITY ENGINEER PRINT DCE NAME DATE RCE#	12/03/2020 C/70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CREATED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum B	CH	[Signature]
DATE	FILM	DATE STARTED
2/3/21	[]	DATE COMPLETED
260-1709	[]	[]
CCS27 COORDINATE	[]	[]
1900-6269	[]	[]
CCS83 COORDINATE	[]	[]
[]	[]	[]
CONTRACTOR		INSPECTOR
[]		[]

CONSULTANT

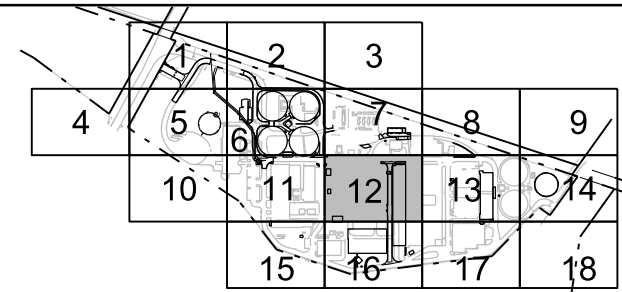
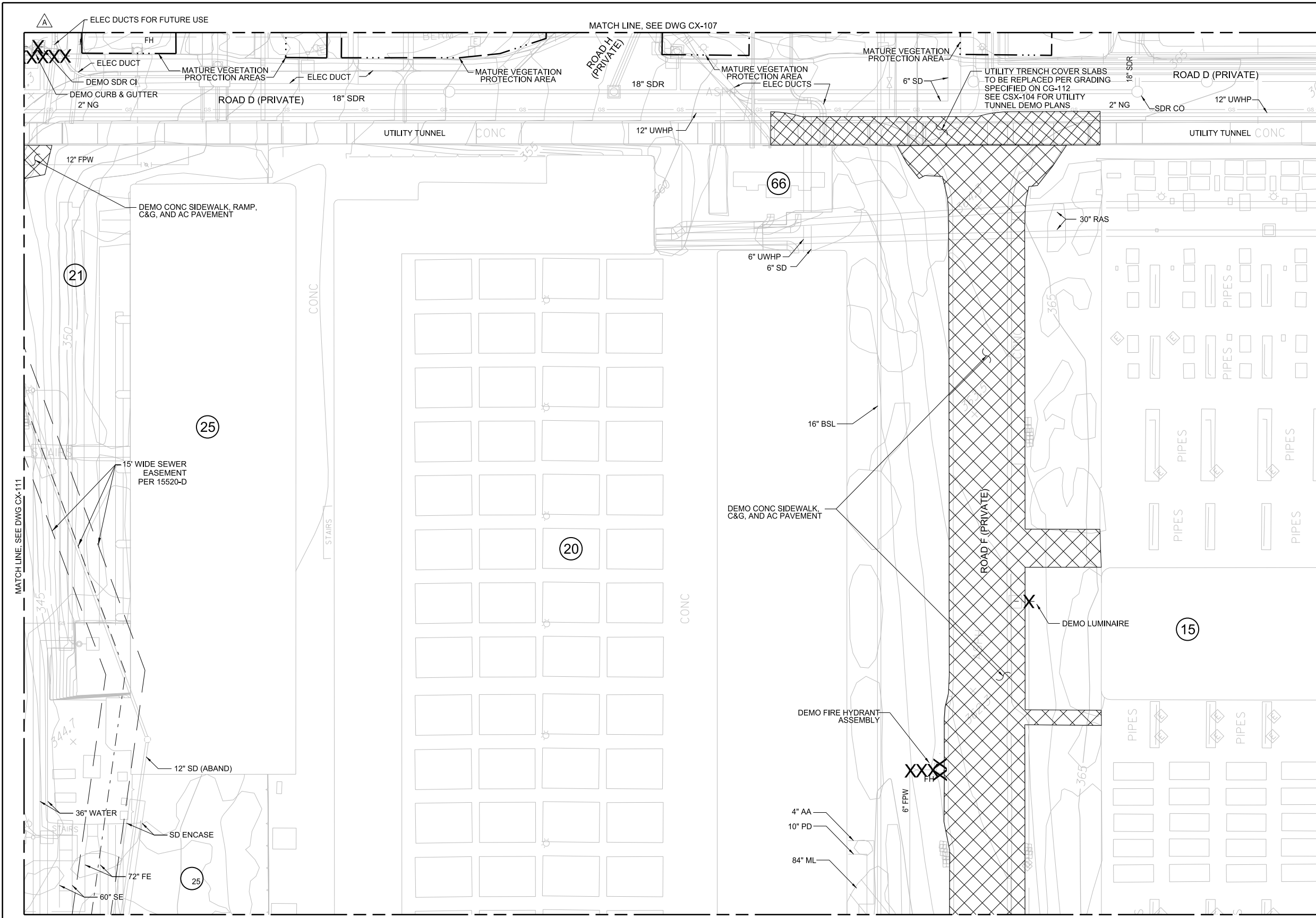
2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
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WARNING

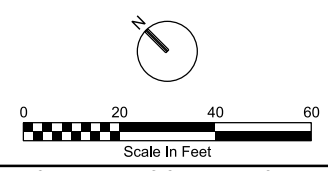
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



KEYPLAN
NTS

- NOTES:**
- SEE DWG Y-112 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EXISTING IRRIGATION PIPING NOT SHOWN. IF EXISTING PIPING IS DAMAGED, REPLACE IN KIND. REFER TO NCWRP RECORD DRAWINGS FOR EXISTING IRRIGATION PIPING.

- MATURE VEGETATION PROTECTION AREAS:**
- INSTALL PROTECTION FENCING AROUND MATURE SHRUBS TO LIMIT TOPSOIL DISTURBANCE, ROOT DAMAGE OR FOLIAGE DAMAGE.
 - MAINTAIN EXISTING GRADE WITHIN THESE DESIGNATED PROTECTION AREAS.
 - IRRIGATION IN THESE AREAS SHALL BE MAINTAINED OR ESTABLISHED TO KEEP VEGETATION IN HEALTHY CONDITION DURING ALL STAGES OF CONSTRUCTION. SUBMIT LANDSCAPE WATERING SCHEDULE PRIOR TO BEGINNING ANY SITE WORK. VEHICLE USE, FOOT TRAFFIC, AND STORAGE OF ANY KIND IS PROHIBITED WITHIN PROTECTED LANDSCAPE AREAS.
 - AREAS SHALL BE PROTECTED FROM FLOODING, EROSION, CHEMICAL SPILLS, AND EXCESSIVE WETTING AND DRYING. CONTRACTOR SHALL REPLACE VEGETATION THAT HAS DIED WITH NEW CONTAINER PLANTS OF SIMILAR TYPE, SIZE AND CHARACTER TO BE COORDINATED WITH CITY STAFF AND LANDSCAPE ARCHITECT.



PK2-CX-112

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL SITE DEMOLITION PLAN - AREA 12

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 65 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Keith W. Hansen</i> FOR CITY ENGINEER PRINT DCE NAME: Keith W. Hansen	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Keith W. Hansen</i>
▲ Addendum B	CH	<i>Keith W. Hansen</i>
		DATE
		1/15/21
		2/3/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
		40381-2065-D

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REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
NO. 60223
Exp. 6-30-2022
CIVIL
STATE OF CALIFORNIA

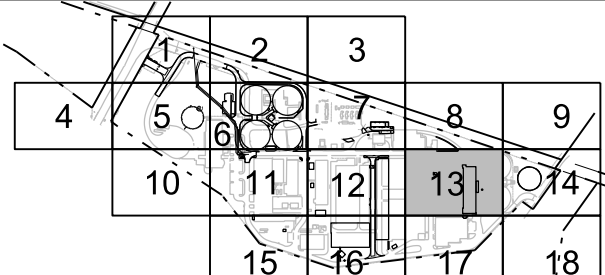
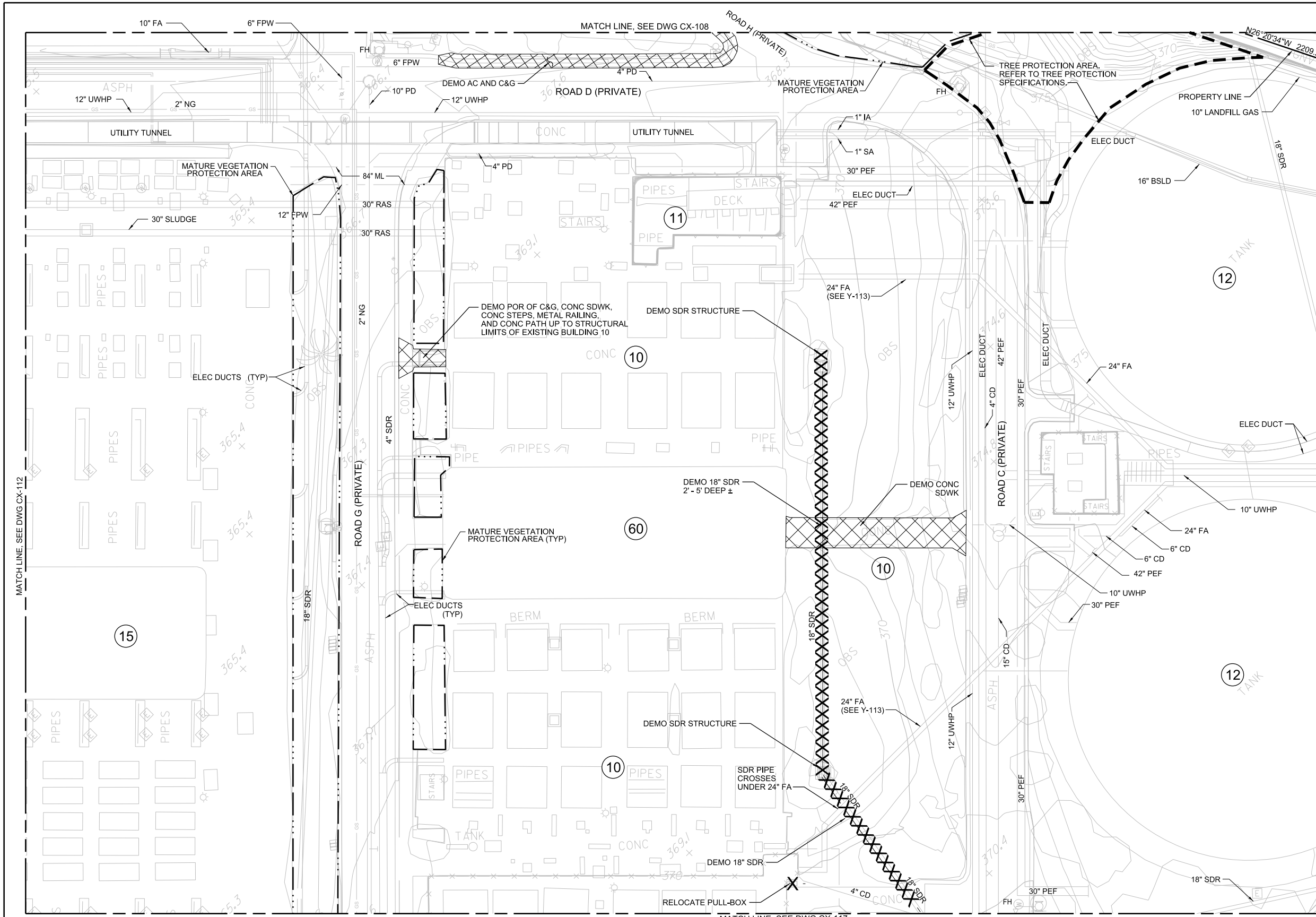
DIGITALLY SIGNED: 01/27/2021

CONTRACTOR _____
INSPECTOR _____

DATE STARTED _____
DATE COMPLETED _____

WARNING

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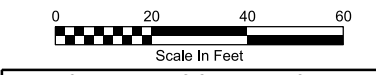
KEYPLAN
NTS

NOTES:

- SEE DWG Y-113 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
- COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
- SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
- EXISTING IRRIGATION PIPING NOT SHOWN. IF EXISTING PIPING IS DAMAGED, REPLACE IN KIND. REFER TO NCRWP RECORD DRAWINGS FOR EXISTING IRRIGATION PIPING.

MATURE VEGETATION PROTECTION AREAS:

- INSTALL PROTECTION FENCING AROUND MATURE SHRUBS TO LIMIT TOPSOIL DISTURBANCE, ROOT DAMAGE OR FOLIAGE DAMAGE.
- MAINTAIN EXISTING GRADE WITHIN THESE DESIGNATED PROTECTION AREAS.
- IRRIGATION IN THESE AREAS SHALL BE MAINTAINED OR ESTABLISHED TO KEEP VEGETATION IN HEALTHY CONDITION DURING ALL STAGES OF CONSTRUCTION. SUBMIT LANDSCAPE WATERING SCHEDULE PRIOR TO BEGINNING ANY SITE WORK.
- VEHICLE USE, FOOT TRAFFIC, AND STORAGE OF ANY KIND IS PROHIBITED WITHIN PROTECTED LANDSCAPE AREAS.
- AREAS SHALL BE PROTECTED FROM FLOODING, EROSION, CHEMICAL SPILLS, AND EXCESSIVE WETTING AND DRYING. CONTRACTOR SHALL REPLACE VEGETATION THAT HAS DIED WITH NEW CONTAINER PLANTS OF SIMILAR TYPE, SIZE AND CHARACTER TO BE COORDINATED WITH CITY STAFF AND LANDSCAPE ARCHITECT.



PK2-CX-113

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL SITE DEMOLITION PLAN - AREA 13

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 66 OF 1169 SHEETS					B-16149, S-17012 WBS B-15142	
APPROVED: [Signature]	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER		CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER		
FOR CITY ENGINEER: Andrea Demich	DATE: C70321	PRINT DCE NAME: [Signature]		RCE#		
DESCRIPTION	BY	APPROVED	DATE	FIRM	PROJECT NUMBER	
▲ Addendum B	CH	[Signature]	2/3/21		260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE	
CONTRACTOR: _____			DATE STARTED: _____			40381-2066-D
INSPECTOR: _____			DATE COMPLETED: _____			

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REGISTERED PROFESSIONAL ENGINEER
KETH W. HANSEN
NO. 60223
EXPIRES 06-30-2023
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

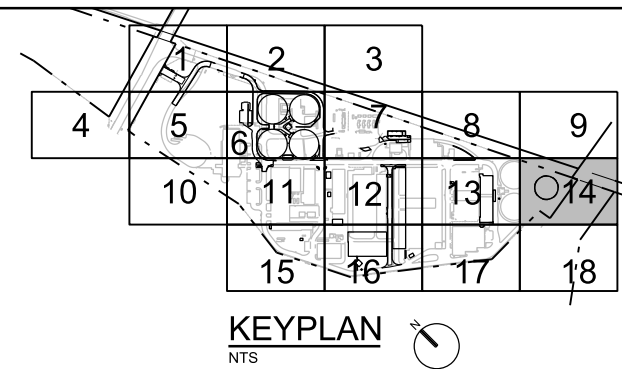
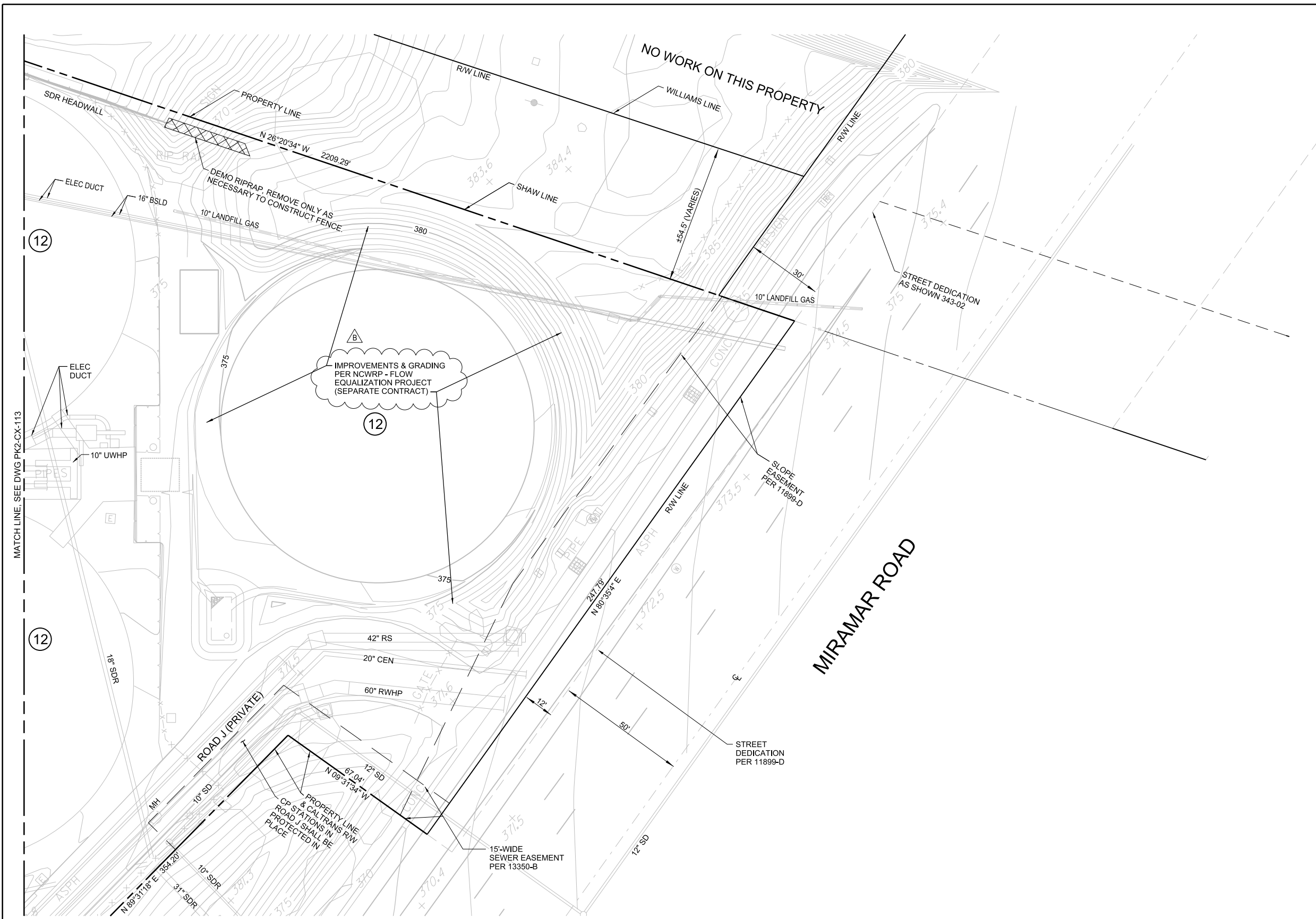
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

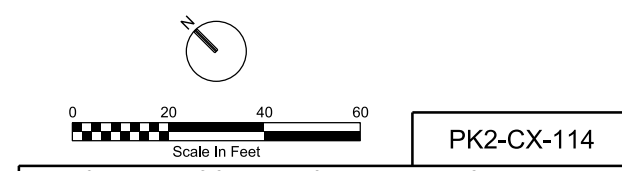
MATCH LINE, SEE DWG CX-108

MATCH LINE, SEE DWG CX-114

MATCH LINE, SEE DWG CX-117



- NOTES:**
- SEE DWG Y-114 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EXISTING IRRIGATION PIPING NOT SHOWN. IF EXISTING PIPING IS DAMAGED, REPLACE IN KIND. REFER TO NCWRP RECORD DRAWINGS FOR EXISTING IRRIGATION PIPING.



PK2-CX-114

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
**CIVIL
SITE DEMOLITION
PLAN - AREA 14**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 67 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i>	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
FOR CITY ENGINEER: Andrea Demich	DATE: C7/03/21	PROJECT ENGINEER: THIEN-LONG TRAN
PRINT DCE NAME: <i>[Signature]</i>	RCE#	PROJECT ENGINEER: 260-1709
DESCRIPTION	BY	APPROVED
▲ Addendum B	CH	<i>[Signature]</i>
		DATE: 2/3/21
		FILM
		1900-6269
		CCS27 COORDINATE
		CCS83 COORDINATE
CONTRACTOR: _____		DATE STARTED: _____
INSPECTOR: _____		DATE COMPLETED: _____

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DIGITALLY SIGNED: 01/27/2021

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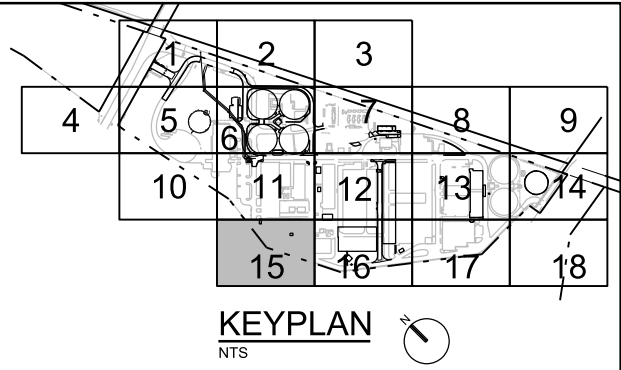
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONTRACTOR: _____

INSPECTOR: _____

MATCH LINE, SEE DWG PK2-CX-111

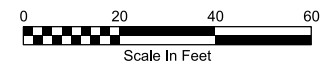
RELOCATE CATCH BASIN
AND DEMO PORTION OF
SDR PIPE



MATCH LINE, SEE DWG PK2-CX-116

NOTES:

- SEE DWG Y-115 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
- COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
- SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
- EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
- EXISTING IRRIGATION PIPING NOT SHOWN. IF EXISTING PIPING IS DAMAGED, REPLACE IN KIND. REFER TO NCPWR RECORD DRAWINGS FOR EXISTING IRRIGATION PIPING.



PK2-CX-115

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
SITE DEMOLITION
PLAN - AREA 15

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REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
NO. 60223
CIVIL
STATE OF CALIFORNIA

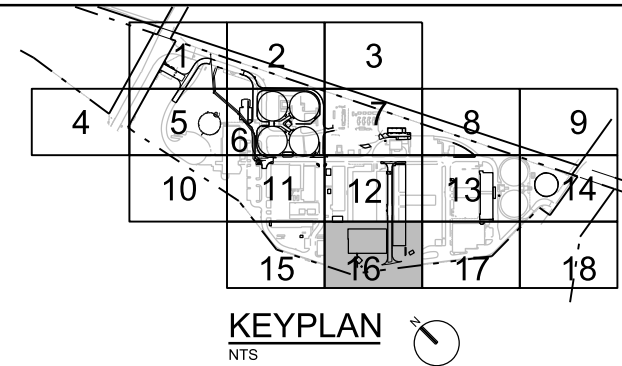
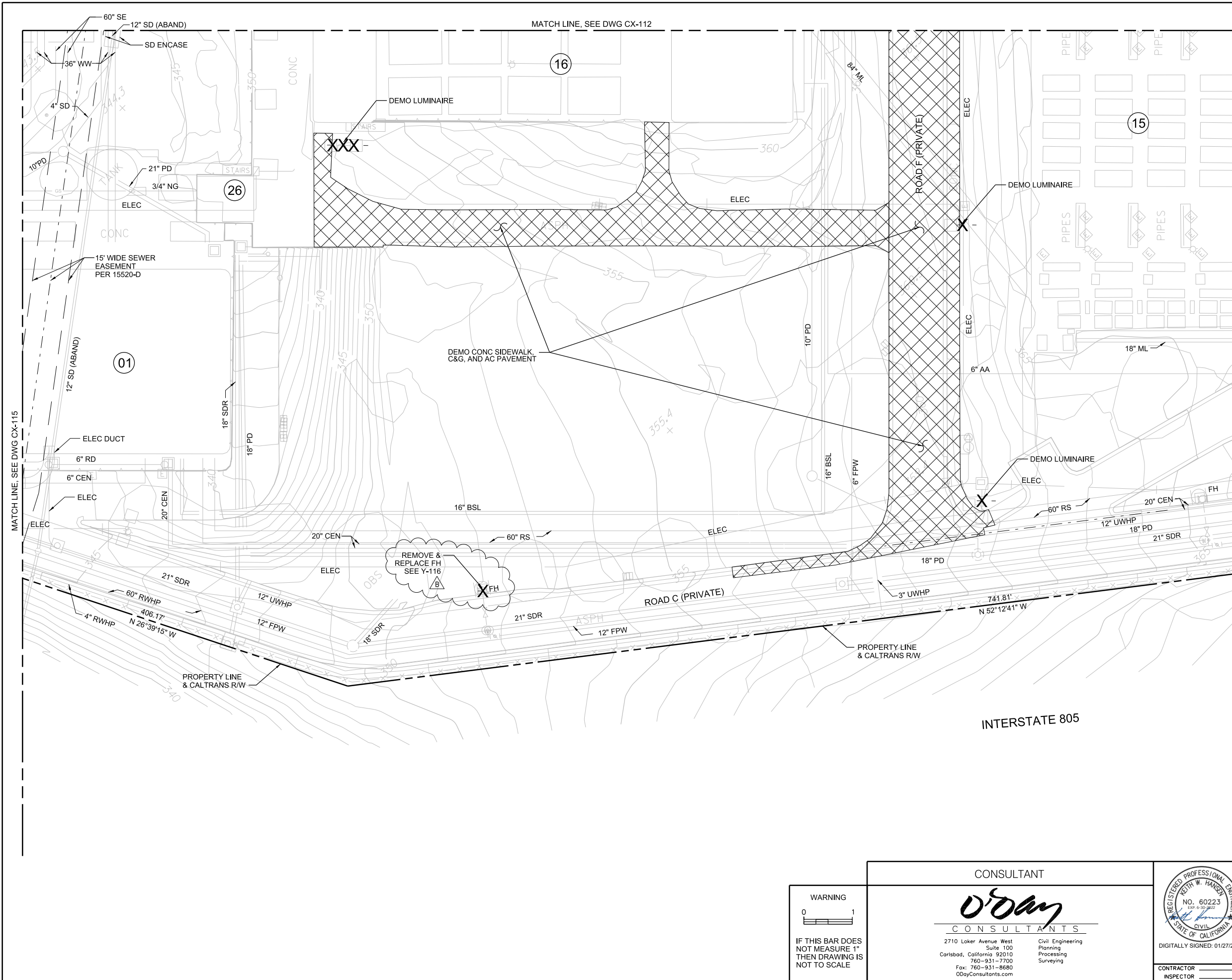
DIGITALLY SIGNED: 01/27/2021

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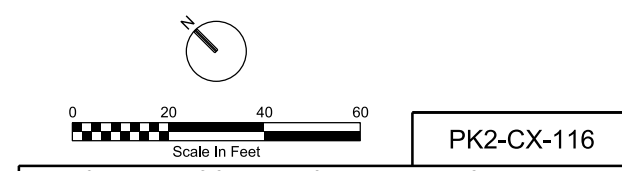
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CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 68 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: FOR CITY ENGINEER PRINT DCE NAME Andria Demich	DATE 12/03/2020 C70321	SUBMITTED BY MONIKA SMO CZYNSKI PROJECT MANAGER
DESCRIPTION Addendum B	BY CH	THIEN-LONG TRAN PROJECT ENGINEER
APPROVED [Signature]	DATE 2/3/21	260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-2068-D
INSPECTOR	DATE COMPLETED	



- NOTES:**
- SEE DWG Y-116 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EXISTING IRRIGATION PIPING NOT SHOWN. IF EXISTING PIPING IS DAMAGED, REPLACE IN KIND. REFER TO NCRWP RECORD DRAWINGS FOR EXISTING IRRIGATION PIPING.



PK2-CX-116

NCRWP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
**CIVIL
SITE DEMOLITION
PLAN - AREA 16**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 69 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C70321 RCE#	SUBMITTED BY: MONIKA SMOczynski PROJECT MANAGER THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum B	BY CH	APPROVED <i>[Signature]</i>
		DATE 2/3/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
		40381-2069-D

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GENERAL NOTES

- 1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS UNLESS APPROVED BY TRAFFIC CONTROL PERMIT FROM THE DEVELOPMENT SERVICES DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF SAN DIEGO DOES NOT AUTHORIZE THE PERMIT HOLDER OR OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.
4. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER ISSUED BEFORE A 'PERMIT TO EXCAVATE' WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE (800) 422-4133, TWO DAYS BEFORE YOU DIG.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING AND LOCATING ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE WHILE MAINTAINING A 1 FOOT VERTICAL CLEARANCE.
6. 'PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE.' IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT ISSUING AUTHORITY.
7. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE RESIDENT ENGINEER.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPPING DAMAGED DURING CONSTRUCTION.
9. PRIOR TO SITE DISTURBANCE, CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRECONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO, CONSTRUCTION MANAGEMENT AND FIELD ENGINEERING DIVISION (658) 627-3200.
10. CONTRACTOR SHALL ONLY PERFORM SITE SURVEY AND UTILITY MARK OUT SERVICES PRIOR TO THE PRECONSTRUCTION MEETING.
11. CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
12. CONTRACTOR SHALL HAVE EMERGENCY MATERIAL AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHERE FLOW MAY GENERATE EROSION AND SEDIMENT POLLUTION.
13. AN AS-GRADED GEOTECHNICAL REPORT AND SET OF THE REDLINE 'AS-BUILT' GRADING PLANS SHALL BE SUBMITTED TO AREA 3 ON THE THIRD FLOOR OF DEVELOPMENT SERVICES WITHIN 30 CALENDAR DAYS OF THE COMPLETION OF GRADING. AN ADDITIONAL SET SHALL BE PROVIDED TO THE RESIDENT ENGINEER OF THE CONSTRUCTION MANAGEMENT & FIELD SERVICES DIVISION AT 9573 CHESAPEAKE DRIVE, SAN DIEGO, CA 92123.
14. 'AS-BUILT' DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF SAN DIEGO.
15. MANHOLES AND PULL BOX COVER SHALL BE LABELED WITH NAME OF COMPANY.
16. CONTRACTOR SHALL PROVIDE RED-LINES DRAWINGS IN ACCORDANCE WITH 2-5.4, 'RED-LINES AND RECORD DOCUMENTS.'
17. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 1 FOOT VERTICAL SEPARATION TO ALL UTILITIES UNLESS OTHERWISE SPECIFIED ON THE PLANS.
18. CONTRACTOR SHALL REMOVE AND REPLACE ALL UTILITY BOXES SERVING AS HANDHOLES THAT ARE NOT IN 'AS-NEW' CONDITION IN PROPOSED SIDEWALK, DAMAGED BOXES, OR THOSE THAT ARE NOT IN COMPLIANCE WITH CURRENT CODE SHALL BE REMOVED AND REPLACED WITH NEW BOXES, INCLUDING WATER, SEWER, TRAFFIC SIGNALS, STREET LIGHTS, DRY UTILITIES-SD&E, COX, ETC. ALL NEW METAL LIDS SHALL BE SLIP RESISTANT AND INSTALLED FLUSH WITH PROPOSED SIDEWALK GRADE. IF A SLIP RESISTANT METAL LID IS NOT COMMERCIALY AVAILABLE FOR THAT USE, NEW BOXES AND LIDS SHALL BE INSTALLED.
19. THE AREA WHICH IS DEFINED AS A NON GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO START OF THE WORK. THE PERMIT APPLICANT AND ALL OF THEIR REPRESENTATIVES OR CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY. ISSUANCE OF THE CITY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CALIFORNIA DEPARTMENT OF FISH AND GAME. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.
20. PRIOR TO CONSTRUCTION, SURVEY MONUMENTS (HORIZONTAL AND VERTICAL) THAT ARE LOCATED IN THE CONSTRUCTION AREA SHALL BE TIED-OUT AND REFERENCED BY A LAND SURVEYOR.
21. UPON COMPLETION OF CONSTRUCTION, ALL DESTROYED SURVEY MONUMENTS ARE REQUIRED TO BE REPLACED, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE PREPARED AND FILED WITH THE COUNTY SURVEYOR AS REQUIRED BY THE PROFESSIONAL LAND SURVEYOR ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA.
22. MONUMENT PRESERVATION CERTIFICATION
THE PERMITEE SHALL BE RESPONSIBLE FOR THE COST OF REPLACING ALL SURVEY MONUMENTS DESTROYED BY CONSTRUCTION. IF A VERTICAL CONTROL MONUMENT IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION. PRIOR TO PERMIT ISSUANCE THE PROFESSIONAL LAND SURVEYOR OR CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING WILL BE RESPONSIBLE FOR MONUMENT PRESERVATION AND SHALL PROVIDE A CORNER RECORD OR RECORD OF SURVEY TO THE COUNTY SURVEYOR AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA, IF APPLICABLE.
NO SURVEY MONUMENTS EXIST NEAR THE AREA OF CONSTRUCTION
SURVEY MONUMENTS EXISTING IN OR NEAR CONSTRUCTION WILL BE PROTECTED IN PLACE
PRECONSTRUCTION CORNER RECORD FOR SURVEY MONUMENTS TO BE DESTROYED DURING CONSTRUCTION
CORNER RECORD # _____ OR RECORD OF SURVEY # _____
POST CONSTRUCTION CORNER RECORD FOR SURVEY MONUMENTS DESTROYED DURING CONSTRUCTION AND REPLACED AFTER CONSTRUCTION.
CORNER RECORD # _____ OR RECORD OF SURVEY # _____
23. UNLESS OTHERWISE NOTED OR SPECIFIED, SURFACE IMPROVEMENTS DAMAGED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE RECONSTRUCTED BY THE CONTRACTOR TO THE SAME DIMENSIONS AND WITH THE SAME TYPE OF MATERIAL.

POLLUTANT CONTROL BMP OPERATION & MAINTENANCE PROCEDURE

Table with 7 columns: BMP DESCRIPTION, INSPECTION FREQUENCY, MAINTENANCE FREQUENCY, MAINTENANCE INDICATORS, MAINTENANCE ACTIONS, QUANTITY, INCLUDED IN O&M MANUAL, SHEET NUMBER(S). Contains rows for BMP 1 through BMP 9.

OWNER/APPLICANT

CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT

GRADING PLANS FOR: NCWRP EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION GRADING + GEOTECHNICAL SPECIFICATIONS

1. ALL GRADING SHALL BE CONDUCTED UNDER THE OBSERVATION AND TESTING BY A QUALIFIED PROFESSIONAL ENGINEER AND, IF REQUIRED, A QUALIFIED PROFESSIONAL GEOLGIST. ALL GRADING MUST BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY ORDINANCE AND THE RECOMMENDATIONS AND SPECIFICATIONS SET FORTH IN THE PRELIMINARY GEOTECHNICAL INVESTIGATION REPORT(S) ENTITLED:
REPORT OF GEOTECHNICAL INVESTIGATION, NORTH CITY WATER RECLAMATION PLANT EXPANSION, CITY OF SAN DIEGO, PROJECT NO. 44F1 BY: ALLIED GEOTECHNICAL ENGINEERS, INC., 9500 CUYAMACA STREET, SUITE 102, SANTEE, CALIFORNIA 92071-2685, JANUARY 17, 2018.

THESE DOCUMENTS WILL BE FILED IN THE RECORDS SECTION OF DEVELOPMENT SERVICES UNDER THE PROJECT NUMBER INDICATED IN THE TITLE BLOCK OF THESE PLANS.

2. ALL FILL SOIL SHALL BE COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MOST RECENT VERSION OF A.S.T.M. D-1557 OR AN APPROVED ALTERNATIVE STANDARD.
3. AT THE COMPLETION OF THE GRADING OPERATIONS FOR THE EARTHWORK SHOWN ON THIS PLAN, AN AS-GRADED GEOTECHNICAL REPORT SHALL BE PREPARED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE CITY OF SAN DIEGO GUIDELINES FOR GEOTECHNICAL REPORTS. THE FINAL 'AS-GRADED' GEOTECHNICAL REPORT SHALL BE SUBMITTED IN ACCORDANCE WITH THE GENERAL NOTES ON THESE PLANS WITHIN 30 DAYS OF THE COMPLETION OF GRADING. WHERE GEOLOGIC INSPECTION IS INDICATED IN THE PERMIT, PLANS, SPECIFICATIONS, OR GEOTECHNICAL REPORT(S), THE FINAL 'AS-GRADED' GEOTECHNICAL REPORT MUST ALSO BE REVIEWED AND SIGNED BY A QUALIFIED PROFESSIONAL GEOLGIST.

4. THE COMPANY OR COMPANIES REPRESENTED BY THE INDIVIDUALS SIGNING ITEM NO. 5 OF THIS CERTIFICATE IS/ARE THE GEOTECHNICAL CONSULTANT(S) OF RECORD. IF THE GEOTECHNICAL CONSULTANT OF RECORD IS CHANGED FOR THE PROJECT, THE WORK SHALL BE STOPPED UNTIL THE REPLACEMENT HAS SUBMITTED AN ACCEPTABLE TRANSFER OF GEOTECHNICAL CONSULTANT OF RECORD DECLARATION PREPARED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE CITY OF SAN DIEGO GUIDELINES FOR GEOTECHNICAL REPORTS. IT SHALL BE THE DUTY OF THE PERMITEE TO NOTIFY THE RESIDENT ENGINEER AND THE GEOLOGY SECTION OF DEVELOPMENT SERVICES IN WRITING OF SUCH CHANGE PRIOR TO THE RECOMMENCEMENT OF GRADING.

5. THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN THE REFERENCED GEOTECHNICAL REPORT(S) PREPARED FOR THIS PROJECT.

JOSEPH GOLDHAMMER G.E. DATE ALLIED GEOTECHNICAL ENGINEERS, INC. 9500 CUYAMACA STREET, SUITE 102 SANTEE, CA 92071-2685 TEL: (619) 449-5900
NICHOLAS E. BARNES C.E.G. DATE

REFERENCE DRAWINGS

Table listing drawings: STREET DEDICATION (343-02), SEWER EASEMENT (1350-B), SLOPE EASEMENT (11899-D), NCWRP RECORD DRAWINGS (MARCH 1997) (26982), NORTH CITY COGENERATION FACILITY (AUGUST 1999) (28737)

WORK TO BE DONE

AS PART OF THE CITY OF SAN DIEGO PURE WATER PROGRAM IMPLEMENTATION, THE NORTH CITY WATER RECLAMATION PLANT (NCWRP) WILL UNDERGO AN EXPANSION OF SEVERAL PROCESSES WHICH WILL ALLOW THE PLANT TO TREAT UP TO 52 MILLION OF GALLONS PER DAY (MGD). THIS EXPANSION PROJECT WILL REQUIRE A MULTI-PHASE CONSTRUCTION SEQUENCE. PACKAGE 2 - NORTH CITY WATER RECLAMATION PLANT EXPANSION, INCLUDES CONSTRUCTION OF ADDITIONAL SEDIMENTATION TANKS, BIOREACTOR FACILITIES, CLARIFIER TANKS, CHEMICAL STORAGE FACILITIES, FILTERING STRUCTURES, SEVERAL BUILDINGS, ROADWAY REALIGNMENTS, STORMWATER DETENTION SYSTEMS, BELOW GRADE VAULTS, ASSOCIATED ELECTRICAL SYSTEMS, UNDERGROUND PIPING, FENCING, SAFETY AND OTHER RELATED EQUIPMENT.

THE PUBLIC IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE CONSTRUCTED ACCORDING TO THE FOLLOWING STANDARD SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

Table with 2 columns: DOCUMENT NO. and DESCRIPTION. Includes references to Standard Specifications for Public Works Construction and City of San Diego Standard Specifications for Public Works Construction.

STANDARD DRAWINGS:

Table with 2 columns: DOCUMENT NO. and DESCRIPTION. Includes reference to City of San Diego Standard Drawings for Public Works Construction.

GRADING QUANTITIES

Table showing quantities: GRADED AREA (16.4 ACRES), CUT QUANTITIES (65,000 CYD), FILL QUANTITIES (61,000 CYD), EXPORT (2,000 CYD), MAX. CUT DEPTH (35 FT), MAX CUT SLOPE RATIO (2:1MAX), MAX. FILL DEPTH (28 FT), MAX FILL SLOPE RATIO (2:1MAX).

THIS PROJECT PROPOSES TO EXPORT 4,000 CUBIC YARDS OF MATERIAL FROM THIS SITE. ALL EXPORT MATERIAL SHALL BE DISCHARGED TO A LEGAL DISPOSAL SITE. THE APPROVAL OF THIS PROJECT DOES NOT ALLOW PROCESSING AND SALE OF THE MATERIAL. ALL SUCH ACTIVITIES REQUIRE A SEPARATE CONDITIONAL USE PERMIT.

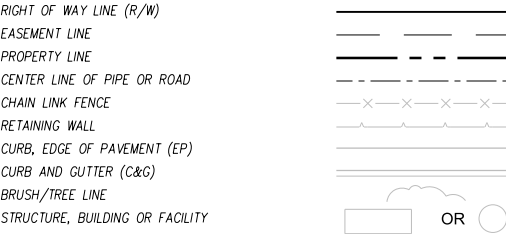
NOTE: THESE QUANTITIES DO NOT INCLUDE SHRINKAGE, BULKING, OR REMEDIAL GRADING. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES REQUIRED FOR CONSTRUCTION.

CONSTRUCTION STORM WATER PROTECTION NOTES

- 1. TOTAL SITE DISTURBANCE AREA (ACRES) 16.4 AC. HYDROLOGIC UNIT / WATERSHED HYDROLOGIC: PENASQUITOS/MISSION BAY WATERSHED. HYDRAULIC SUB AREA NAME AND NUMBER: MIRAMAR HA 906.40
2. THE PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF THE WPCP AND SWPPP. THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NUMBER R9-2013-0001 AND SUBSEQUENT AMENDMENTS. THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NUMBER R9-2013-0001 AND CONSTRUCTION GENERAL PERMIT ORDER NUMBER 2009-009-DWO AS AMENDED BY ORDER 2010-0014 DWO AND 2012-0006-DWO. TRADITIONAL: RISK LEVEL 1 2 3. LUP RISK LEVEL 1 2 3.

DISCRETIONARY PERMIT NO: PTS 585316

EXISTING IMPROVEMENTS (Cont.)



LEGEND

PROPOSED IMPROVEMENTS

Table mapping symbols to proposed improvements: SPOT ELEVATION (158.5), MAJOR CONTOUR LINE (155), MINOR CONTOUR LINE, TOP OF SLOPE, GRADING LIMITS, SLOPE INDICATOR, TOE OF SLOPE, BROW OR TERRACE DITCH (SDD-106), VEGETATED SWALE, RIP-RAP (SDD-104), RCP STORM DRAIN, PVC SU PIPE (HOLES DOWN), CATCH BASIN (TYPE '1') (D-29), CATCH BASIN (TYPE 'F') (SDD-119), MOD. CATCH BASIN (TYPE 'F') (SEE DWG CG-501), CLEAN OUT (TYPE 'A') (D-09), DVS-48S DUAL VORTEX SEPARATOR, CURB INLET (TYPE 'B') (SDD-116), WING-TYPE HEADWALL (D-34), MINOR HEADWALL (SEE DWG CG-511), BMP CO (SEE DWG CG-501), SIGN, CENTER LINE OF ROAD, STAGING OR WORK AREA LIMITS, CHAIN LINK FENCE, DEMOLITION (PIPE OR AREA LIMITS), ABANDON PIPE, FIRE HYDRANT (SDD-116), SE ARV (SDW-159).

Table mapping symbols to existing improvements: STRUCTURE, BUILDING OR FACILITY (OR), CONCRETE PAVEMENT, ASPHALT CONCRETE PAVEMENT (AC), DECOMPOSED GRANITE, ASPHALT CONCRETE RESTORATION, SAWCUT LINE, CURB, EDGE OF PAVEMENT (EP) (SDG-150), CURB AND GUTTER (C&G) (SDG-151), ROLLED CURB (SDRSO G-4A), LANDSCAPE HEADER CURB (CENTERLINE), RETAINING WALL, DOUBLE SWING GATE (SDM-114).

EXISTING IMPROVEMENTS

Table mapping symbols to existing improvements: SPOT ELEVATION (157.7), MAJOR CONTOUR LINE (155), MINOR CONTOUR LINE, DRAINAGEWAY OR DITCH, CATCH BASIN OR INLET, CLEANOUT OR MANHOLE, PROTECTED POST, SIGN, LUMINAIRE (LIGHT POLE), FIRE HYDRANT.

SITE ADDRESS

4949 EASTGATE MALL, SAN DIEGO, CA 92121

TOPOGRAPHY SOURCE

TOWILL, INC., 8799 BALBOA AVENUE, SUITE 140, SAN DIEGO, CA 92123-1537, AERIAL TOPOGRAPHY, DATE OF PHOTOGRAPHY WAS MAY 11, 2015. AERIAL TOPOGRAPHY IS IN THE CALIFORNIA COORDINATE SYSTEM, ZONE 6, NAD83, VERTICAL DATUM OF 1929. SUPPLEMENTAL SURVEY HAS BEEN PROVIDED BY O'DAY ENGINEERING IN OCTOBER 2017.

BENCHMARK

EASTGATE MALL WILLIAMS LINE N:2614 E:17091 367.962. * BP IN FOOTING OF NE CORNER HIGH VOLTAGE TOWER. SEE SHEET C-001 FOR LOCATION.

ASSESSORS PARCEL NUMBER

APN 343-122-08, 343-122-09, 345-021-01

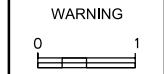
EXISTING LEGAL DESCRIPTION

PORTIONS OF PARCEL 18, PARCEL 19, AND PARCEL 20 ON RECORD OF SURVEY NO. 4234

DECLARATION OF RESPONSIBLE CHARGE

ENGINEER OF WORK FOR THE GRADING AND DRAINAGE ONLY. I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT. THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

KEITH HANSEN R.C.E. NO. 60223 EXP. DATE



IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT O'Day CONSULTANTS 2710 Loker Avenue West Suite 100 Carlsbad, California 92010 760-931-7700 760-931-8680 ODayConsultants.com



DIGITALLY SIGNED: 01/27/2021

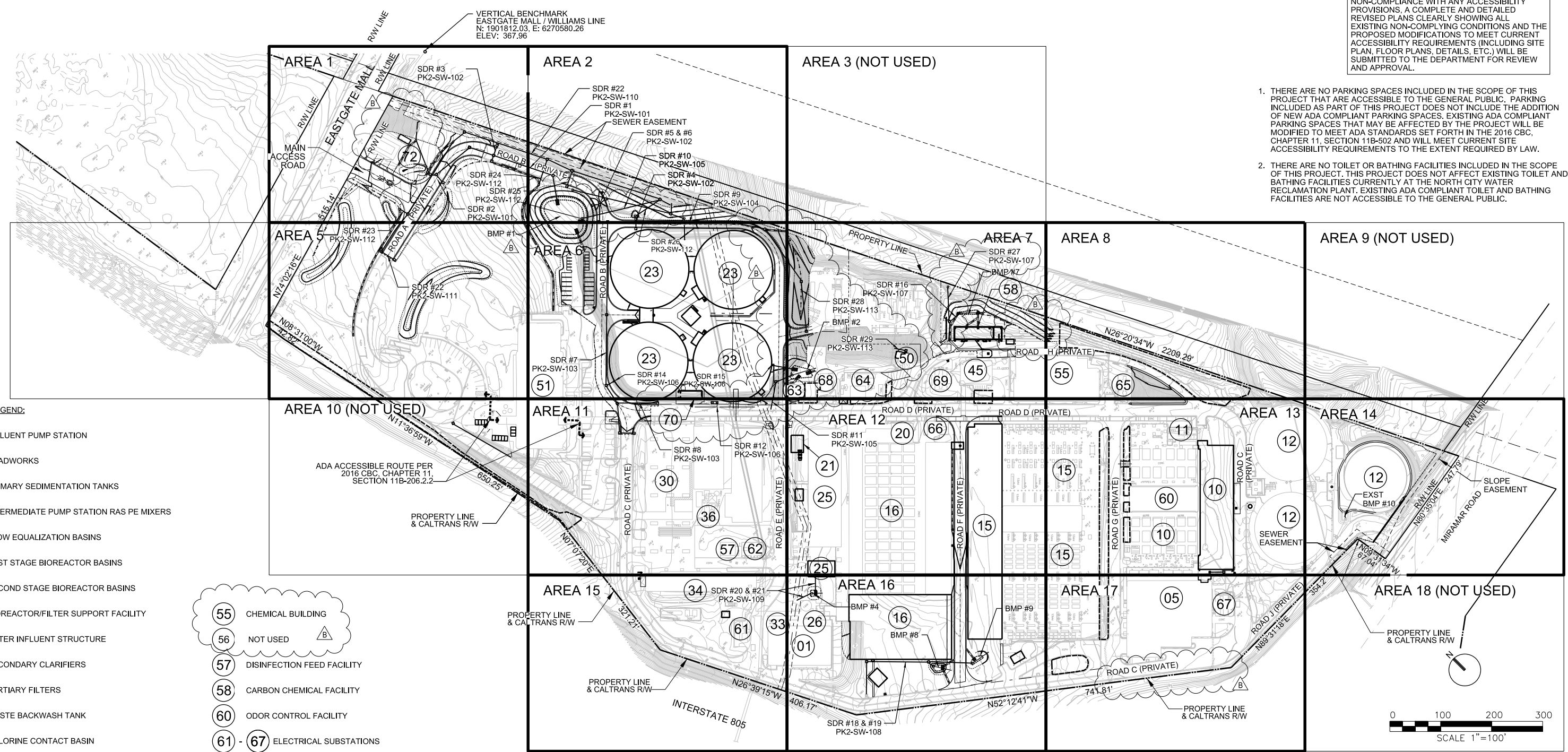
CONTRACTOR INSPECTOR DATE STARTED DATE COMPLETED

PK2-CG-001

CIVIL SITE GRADING GRADING COVER SHEET CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 70 OF 1169 SHEETS. APPROVED: Keith Hansen, DATE: 12/03/2020, PROJECT MANAGER: MONIKA SMOCZYNSKI, PROJECT ENGINEER: THIEN-LONG TRAN. ADDENDUM B 40381-2070-D

IF THE CITY BUILDING INSPECTOR DETERMINES NON-COMPLIANCE WITH ANY ACCESSIBILITY PROVISIONS, A COMPLETE AND DETAILED REVISED PLANS CLEARLY SHOWING ALL EXISTING NON-COMPLYING CONDITIONS AND THE PROPOSED MODIFICATIONS TO MEET CURRENT ACCESSIBILITY REQUIREMENTS (INCLUDING SITE PLAN, FLOOR PLANS, DETAILS, ETC.) WILL BE SUBMITTED TO THE DEPARTMENT FOR REVIEW AND APPROVAL.

1. THERE ARE NO PARKING SPACES INCLUDED IN THE SCOPE OF THIS PROJECT THAT ARE ACCESSIBLE TO THE GENERAL PUBLIC. PARKING INCLUDED AS PART OF THIS PROJECT DOES NOT INCLUDE THE ADDITION OF NEW ADA COMPLIANT PARKING SPACES. EXISTING ADA COMPLIANT PARKING SPACES THAT MAY BE AFFECTED BY THE PROJECT WILL BE MODIFIED TO MEET ADA STANDARDS SET FORTH IN THE 2016 CBC, CHAPTER 11, SECTION 11B-502 AND WILL MEET CURRENT SITE ACCESSIBILITY REQUIREMENTS TO THE EXTENT REQUIRED BY LAW.
2. THERE ARE NO TOILET OR BATHING FACILITIES INCLUDED IN THE SCOPE OF THIS PROJECT. THIS PROJECT DOES NOT AFFECT EXISTING TOILET AND BATHING FACILITIES CURRENTLY AT THE NORTH CITY WATER RECLAMATION PLANT. EXISTING ADA COMPLIANT TOILET AND BATHING FACILITIES ARE NOT ACCESSIBLE TO THE GENERAL PUBLIC.



FACILITY LEGEND:

- 01 INFLUENT PUMP STATION
- 05 HEADWORKS
- 10 PRIMARY SEDIMENTATION TANKS
- 11 INTERMEDIATE PUMP STATION RAS PE MIXERS
- 12 FLOW EQUALIZATION BASINS
- 15 FIRST STAGE BIOREACTOR BASINS
- 16 SECOND STAGE BIOREACTOR BASINS
- 20 BIOREACTOR/FILTER SUPPORT FACILITY
- 21 FILTER INFLUENT STRUCTURE
- 23 SECONDARY CLARIFIERS
- 25 TERTIARY FILTERS
- 26 WASTE BACKWASH TANK
- 30 CHLORINE CONTACT BASIN
- 33 EFFLUENT DROP STRUCTURE
- 34 EFFLUENT PUMP STATION
- 36 NCPWF INFLUENT PUMP STATION
- 45 BLENDED SLUDGE PUMP STATION
- 50 STORMWATER PUMP STATION
- 51 OPERATIONS BUILDING
- 55 CHEMICAL BUILDING
- 56 NOT USED
- 57 DISINFECTION FEED FACILITY
- 58 CARBON CHEMICAL FACILITY
- 60 ODOR CONTROL FACILITY
- 61 - 67 ELECTRICAL SUBSTATIONS
- 64B NOT USED
- 68 ELECTRICAL MAIN PLANT SWITCHGEAR
- 69 ELECTRICAL SWITCHGEAR SUBSTATION
- 70 SECONDARY CLARIFIER ELECTRICAL BUILDING
- 72 ELECTRICAL SWITCHGEAR

PK2-CG-100

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
SITE GRADING & LOCATION
PLAN - OVERALL

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 71 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich DATE: 12/03/2020 C/70321	NO. 60223 DATE: 6-30-2021 CIVIL	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CREATED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum B	CH	<i>[Signature]</i>
		DATE
		2/3/21
		FIRM
		260-1709
		1900-6269
		CCS27 COORDINATE
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-2071-D
INSPECTOR	DATE COMPLETED	

CONSULTANT

O'Day
CONSULTANTS

2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
Fax: 760-931-8680
O'DayConsultants.com

Civil Engineering
Planning
Processing
Surveying

REGISTERED PROFESSIONAL ENGINEER
KETH W. HANSEN
NO. 60223
DATE: 6-30-2021
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

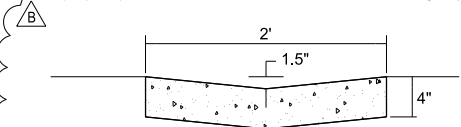
CONTRACTOR: _____
INSPECTOR: _____

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

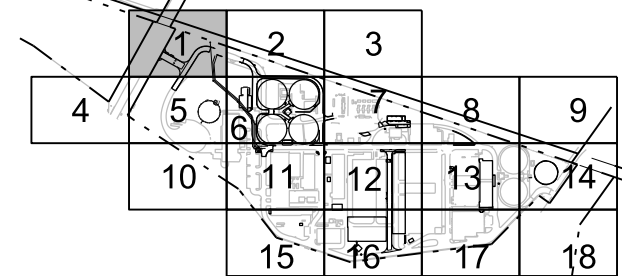
HEADER CURB CENTERLINE COORDINATE TABLE					
NO	NORTHING	EASTING	NO	NORTHING	EASTING
119	1901794.58	6270473.33	128	1901693.96	6270265.24
120	1901716.57	6270466.17	129	1901619.75	6270523.33
121	1901709.99	6270443.16	130	1901640.37	6270487.97
122	1901740.29	6270283.93	131	1901642.49	6270462.46
123	1901728.87	6270243.02	132	1901615.13	6270461.52
124	1901724.15	6270227.11	133	1901602.78	6270459.91
125	1901717.82	6270204.98			
126	1901730.72	6270281.68			
127	1901709.38	6270231.28			

SEE LANDSCAPE PLANS FOR DETAILS.



DETAIL - CONCRETE SWALE
NOT TO SCALE

COORDINATE TABLE (CONT.)			
NO	DESCRIPTION	NORTHING	EASTING
134	SDGE ACCESS RD NE CORNER	1901773.15	6270482.97
135	HEADER CURB CENTERLINE END AT SDGE ACCESS RD	1901772.22	6270479.72
142	HEADER CURB CENTERLINE END AT SDGE ACCESS RD	1901760.20	6270483.16
143	SDGE ACCESS RD SE CORNER	1901760.62	6270484.63

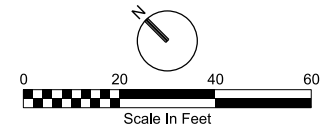
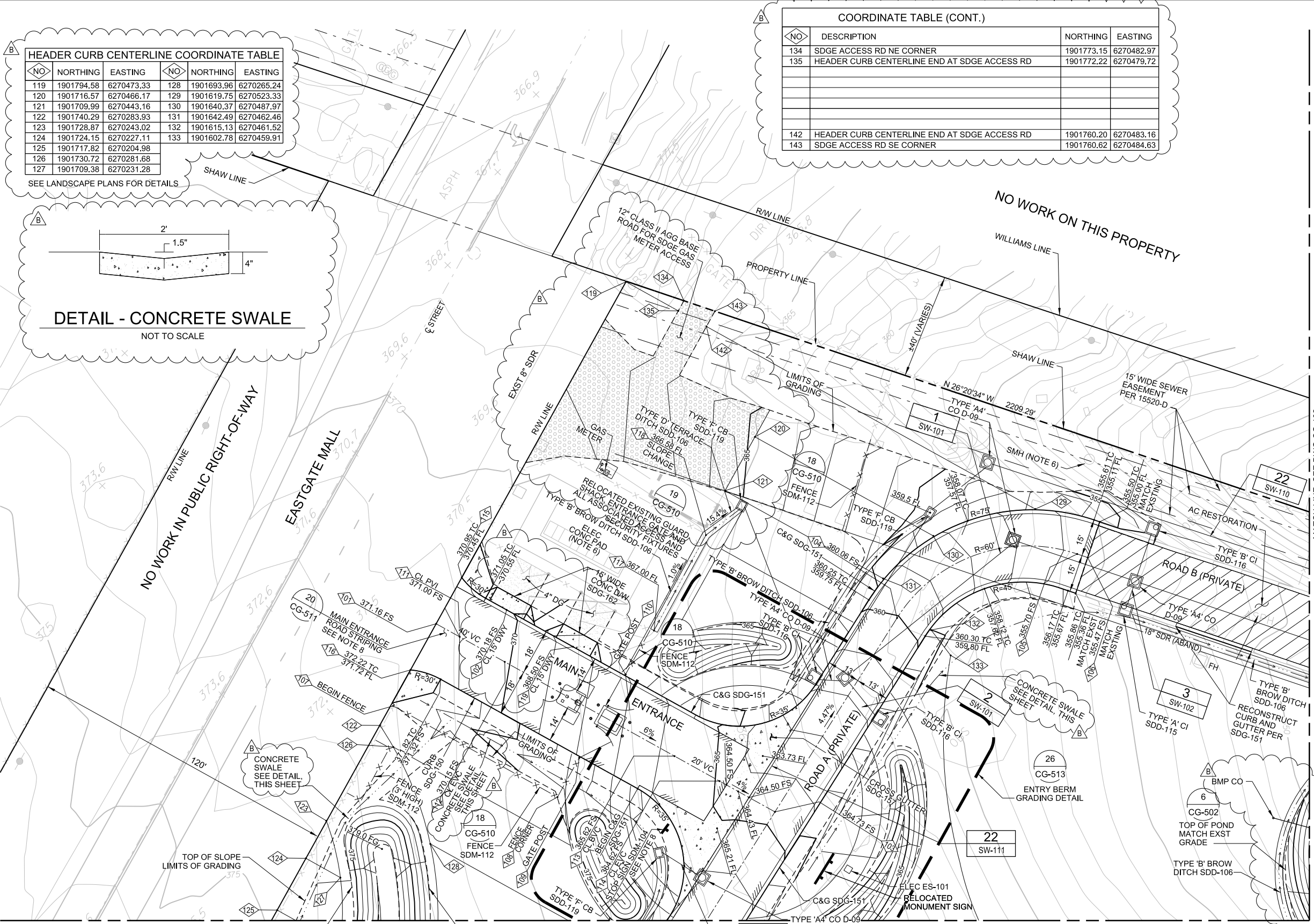


KEYPLAN
NTS

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	CL @ RW LINE	1901752.80	6270327.28
102	CL 15' WIDE DWY	1901737.26	6270350.45
103	CL INTERSECTION	1901608.08	6270368.68
104	BC CL	1901627.79	6270455.45
105	EC CL	1901595.90	6270522.51
106	END CL-MATCH EXST	1901592.04	6270524.41
107	BEGIN FENCE	1901742.05	6270292.94
108	CORNER OF FENCE	1901671.89	6270313.01
109	GATE POST	1901676.69	6270329.81
110	GATE POST	1901686.87	6270365.39
111	CL PVI	1901742.71	6270330.17
112	CL EVC	1901723.48	6270335.67
113	CL BVC	1901650.97	6270356.41
114	CL EVC	1901631.74	6270361.91
115	PC CURB RETURN	1901758.44	6270347.00
116	PC CURB RETURN	1901747.16	6270307.57
117	BEGIN TYPE 'B' BROW DITCH	1901691.13	6270385.26
118	ANGLE POINT BROW DITCH	1901703.05	6270425.74
119	CL 15' WIDE DWY	1901708.89	6270358.57

- NOTES:**
- SEE DWG Y-101 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
 - GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
 - THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DEMOLITION DETAILS ON DWG CX-101.
 - SEE SIGNING & STRIPING PLANS ON DWG CG-511.
 - SEE DWG DWG L-101 FOR LANDSCAPING PLANS.

MATCH LINE, SEE DWG CG-102



PK2-CG-101

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL SITE GRADING & LOCATION PLAN - AREA 1

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 72 OF 1169 SHEETS

APPROVED BY: <i>Janice</i>	DATE: 12/03/2020	PROJECT MANAGER: MONIKA SMOczynski
FOR CITY ENGINEER: Andrea Demich	DATE: 03/21	PROJECT ENGINEER: THIEN-LONG TRAN
PRINT DCE NAME: <i>Janice</i>	RCE#:	PROJECT ENGINEER: 260-1709
Addendum B	BY: <i>Janice</i>	APPROVED: <i>Janice</i>
	DATE: 2/3/21	FILM: 1900-6269
		COORDINATE: CCS83
		COORDINATE: 40381-2072-D

CONSULTANT

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CONSULTANTS

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Carlsbad, California 92010
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760-931-8680
OdayConsultants.com

Civil Engineering
Planning
Processing
Surveying

REGISTERED PROFESSIONAL ENGINEER
No. 60223
DATE: 6-30-2022
CIVIL
STATE OF CALIFORNIA

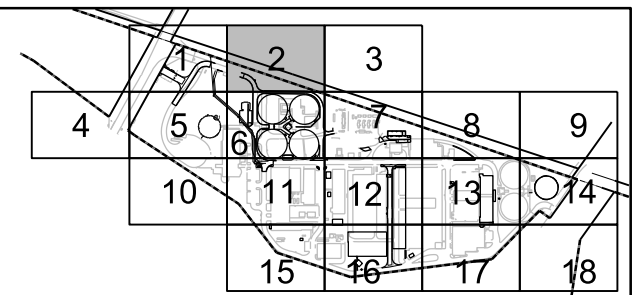
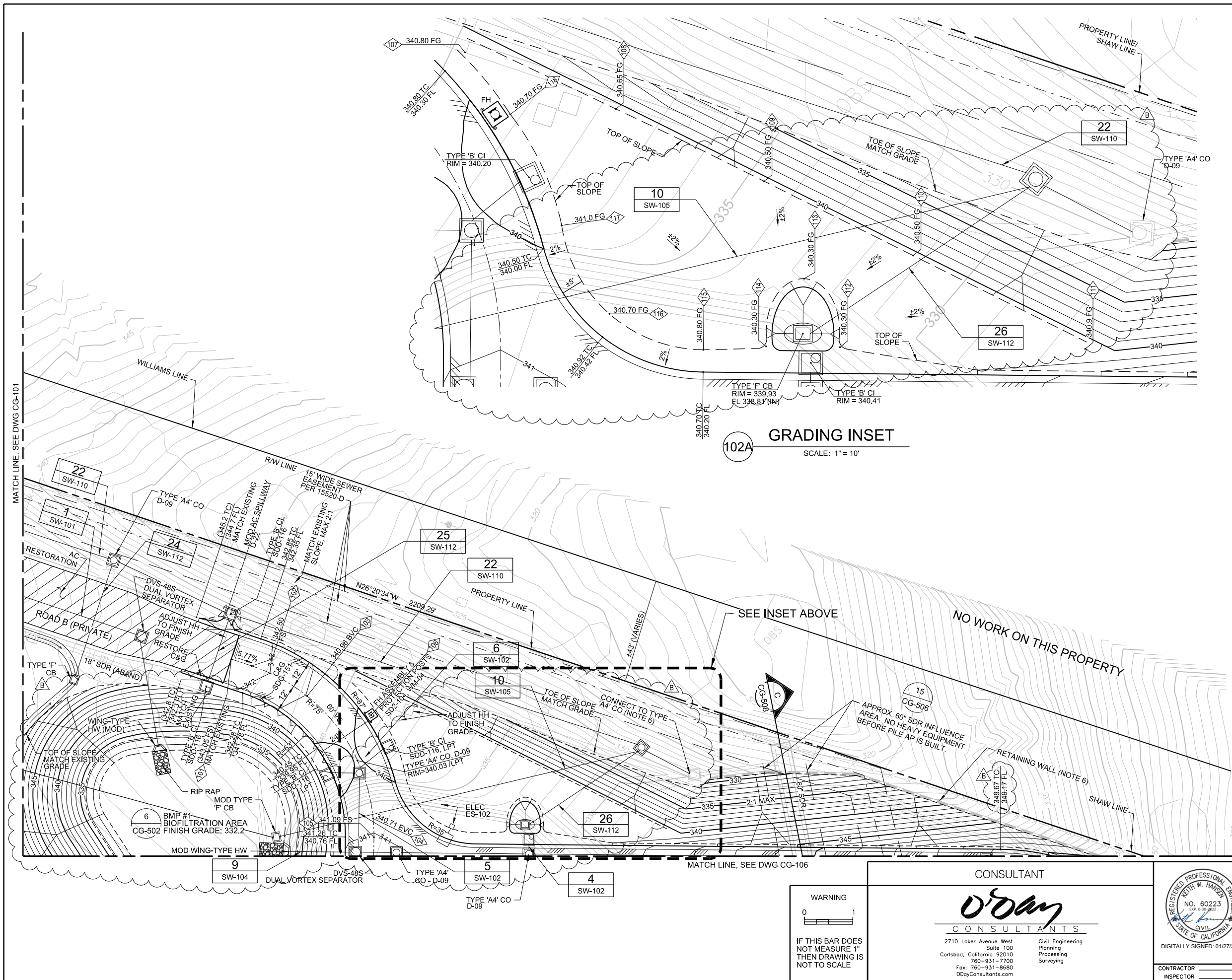
DIGITALLY SIGNED: 01/27/2021

CONTRACTOR: _____
INSPECTOR: _____

WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

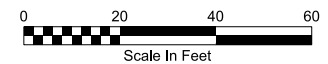


KEYPLAN
NTS

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	BEGIN CL	1901428.43	6270605.63
102	BC CL	1901420.34	6270609.67
103	CL BVC	1901394.98	6270617.14
104	CL EVC	1901339.02	6270600.39
105	EC CL	1901333.23	6270595.07
106	INSTALL FH ASSEMBLY	1901370.33	6270630.53
107	FINISH GRADE	1901383.97	6270635.25
108	TOP OF SLOPE	1901353.22	6270649.25
109	TOP OF SLOPE	1901320.49	6270660.51
110	TOP OF SLOPE	1901287.36	6270671.59
111	FINISH GRADE	1901247.98	6270683.25
112	FINISH GRADE	1901284.62	6270647.13
113	TOP OF SLOPE	1901300.10	6270651.98
114	FINISH GRADE	1901295.67	6270636.30
115	TOP OF SLOPE	1901304.49	6270626.48
116	TOP OF SLOPE	1901323.77	6270617.88
117	TOP OF SLOPE	1901343.98	6270623.93
118	TOP OF SLOPE	1901368.07	6270632.78

102A GRADING INSET
SCALE: 1" = 10'

- NOTES:**
- SEE DWG Y-102 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
 - GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
 - THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DEMOLITION DETAILS ON DWG CX-102.



PK2-CG-102

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
SITE GRADING & LOCATION
PLAN - AREA 2

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 73 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142										
APPROVED: <i>Janet</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demuth	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER THIEN-LONG TRAN PROJECT ENGINEER										
<table border="1"> <thead> <tr><th>DESCRIPTION</th><th>BY</th><th>APPROVED</th><th>DATE</th><th>FIRM</th></tr> </thead> <tbody> <tr><td>▲ Addendum B</td><td>CH</td><td><i>Janet</i></td><td>2/3/21</td><td></td></tr> </tbody> </table>	DESCRIPTION	BY	APPROVED	DATE	FIRM	▲ Addendum B	CH	<i>Janet</i>	2/3/21			260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
DESCRIPTION	BY	APPROVED	DATE	FIRM								
▲ Addendum B	CH	<i>Janet</i>	2/3/21									
CONTRACTOR	DATE STARTED	40381-2073-D										
INSPECTOR	DATE COMPLETED											

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

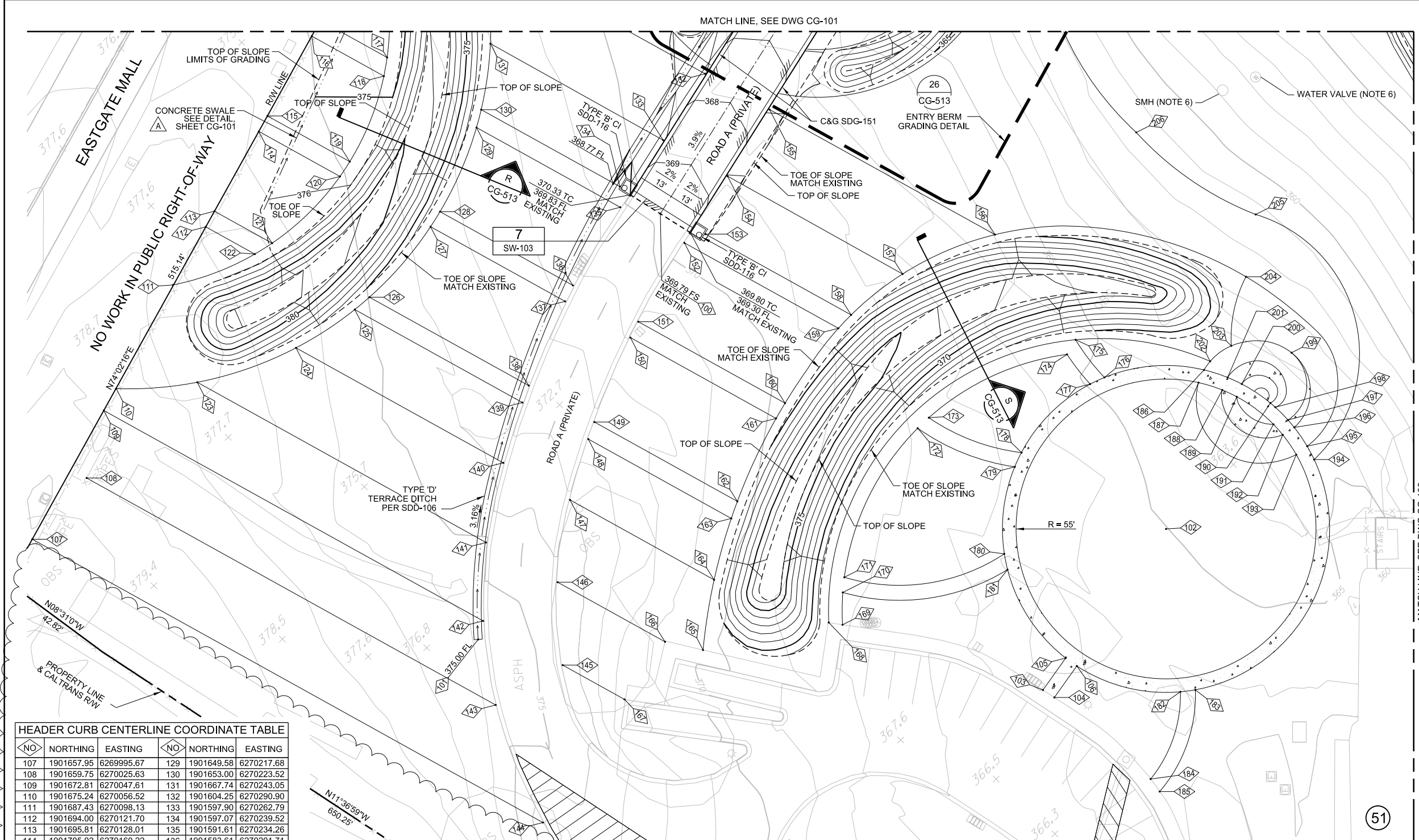
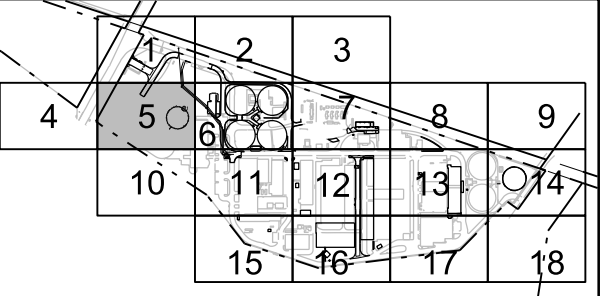
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O'Day CONSULTANTS
2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
760-931-8680
O'DayConsultants.com

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DIGITALLY SIGNED: 01/27/2021

MATCH LINE, SEE DWG CG-101



COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
100	END CL. MATCH EXISTING	1901579.54	6270242.97
101	BEGIN TYPE 'D' TERRACE DITCH	1901579.54	6270242.97
102	CENTER OF 5' WIDTH SIDEWALK CIRCLE	1901366.83	6270292.32
103	EDGE OF SIDEWALK	1901356.76	6270218.61
104	EDGE OF SIDEWALK	1901351.86	6270219.65
105	EDGE OF SIDEWALK	1901359.14	6270232.79
106	EDGE OF SIDEWALK	1901354.21	6270233.62

HEADER CURB CENTERLINE COORDINATE TABLE					
NO	NORTHING	EASTING	NO	NORTHING	EASTING
187	1901396.17	6270338.72	197	1901363.25	6270352.23
188	1901388.09	6270342.96	198	1901369.85	6270352.24
189	1901382.55	6270344.97	199	1901379.80	6270370.59
190	1901372.23	6270352.06	200	1901384.59	6270349.57
191	1901365.90	6270347.32	201	1901389.97	6270347.60
192	1901360.80	6270347.01	202	1901398.67	6270347.26
193	1901352.14	6270345.38	203	1901397.21	6270356.74
194	1901346.22	6270348.75	204	1901411.34	6270378.48
195	1901351.50	6270350.39	205	1901424.97	6270397.16
196	1901359.71	6270351.92	206	1901477.21	6270387.49

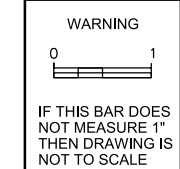
- NOTES:
- SEE DWG Y-105 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
 - GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
 - THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DEMOLITION DETAILS ON DWG CX-105.
 - SEE DWG L-105 FOR LANDSCAPING PLANS.

HEADER CURB CENTERLINE COORDINATE TABLE					
NO	NORTHING	EASTING	NO	NORTHING	EASTING
107	1901657.95	6269995.67	129	1901649.58	6270217.68
108	1901659.75	6270025.63	130	1901653.00	6270223.52
109	1901672.81	6270047.61	131	1901667.74	6270243.05
110	1901675.24	6270056.52	132	1901604.25	6270290.90
111	1901687.43	6270098.13	133	1901597.90	6270262.79
112	1901694.00	6270121.70	134	1901597.07	6270239.52
113	1901695.81	6270128.01	135	1901591.61	6270234.26
114	1901705.02	6270160.22	136	1901583.61	6270201.71
115	1901706.80	6270166.47	137	1901581.50	6270195.55
116	1901716.02	6270198.68	138	1901569.09	6270164.26
117	1901690.94	6270212.67	139	1901566.32	6270158.22
118	1901686.94	6270206.99	140	1901555.65	6270137.61
119	1901673.59	6270175.97	141	1901539.45	6270112.48
120	1901672.28	6270169.58	142	1901519.86	6270091.36
121	1901672.57	6270134.66	143	1901494.77	6270072.82
122	1901674.23	6270127.36	144	1901452.04	6270054.57
123	1901655.89	6270079.18	145	1901487.76	6270100.54
124	1901639.22	6270113.71	146	1901510.57	6270120.74
125	1901633.91	6270138.89	147	1901528.72	6270145.31
126	1901633.32	6270145.88	148	1901539.74	6270165.83
127	1901635.76	6270180.03	149	1901542.60	6270171.83
128	1901637.21	6270186.37	150	1901555.16	6270203.08

NO	NORTHING	EASTING	NO	NORTHING	EASTING
151	1901557.23	6270209.25	163	1901482.09	6270182.32
152	1901565.74	6270241.66	164	1901470.61	6270161.94
153	1901562.56	6270249.39	165	1901455.27	6270140.84
154	1901571.86	6270270.15	166	1901467.25	6270133.13
155	1901578.25	6270298.33	167	1901462.82	6270107.67
156	1901487.34	6270324.34	168	1901429.80	6270180.59
157	1901501.10	6270290.16	169	1901425.65	6270183.57
158	1901503.81	6270266.20	170	1901433.97	6270192.03
159	1901503.65	6270259.42	171	1901437.50	6270196.37
160	1901498.06	6270226.18	172	1901457.15	6270254.07
161	1901496.42	6270219.88	173	1901457.00	6270259.68
162	1901484.94	6270188.32	174	1901437.57	6270311.95

HEADER CURB CENTERLINE COORDINATE TABLE					
NO	NORTHING	EASTING	NO	NORTHING	EASTING
175	1901439.18	6270317.96	181	1901397.18	6270240.69
176	1901421.90	6270315.66	182	1901320.65	6270253.80
177	1901423.89	6270310.23	183	1901317.26	6270258.16
178	1901423.88	6270274.67	184	1901305.75	6270222.44
179	1901421.94	6270269.23	185	1901300.14	6270222.55
180	1901402.10	6270243.93	186	1901398.03	6270343.45

SEE LANDSCAPE PLANS FOR DETAILS



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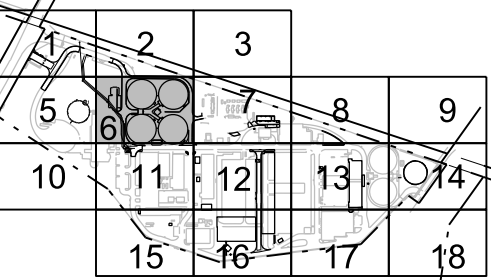
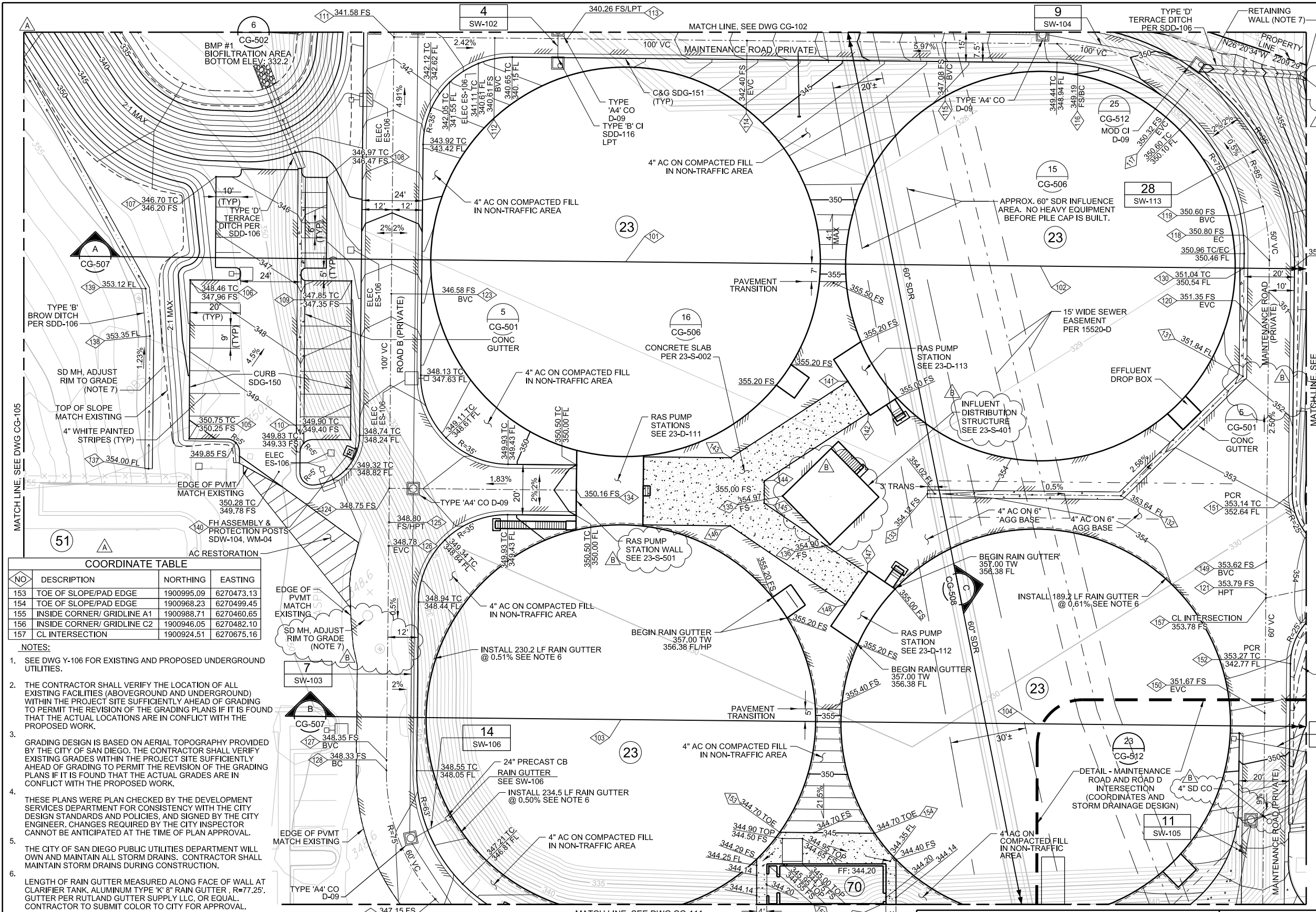
 O'Day CONSULTANTS
 2710 Loker Avenue West
 Suite 100
 Carlsbad, California 92010
 760-931-7700
 Fax: 760-931-8680
 ODayConsultants.com
 Civil Engineering
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PK2-CG-105
 NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
SITE GRADING & LOCATION
PLAN - AREA 5

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 74 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142		
APPROVED: DATE: 12/03/2020	FOR CITY ENGINEER: Andrea Demuth DATE: 07/02/21	SUBMITTED BY: PROJECT MANAGER: MONIKA SMOCZYNSKI	CREATED BY: THIEN-LONG TRAN PROJECT ENGINEER	
DESCRIPTION	BY	APPROVED	DATE	FILM
▲ Addendum A	CH		1/15/21	260-1709
▲ Addendum B	CH		2/3/21	CCS27 COORDINATE
				1900-6269
				CCS83 COORDINATE

CONTRACTOR: _____ DATE STARTED: _____
 INSPECTOR: _____ DATE COMPLETED: _____



KEYPLAN
NTS

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	TANK CENTER (150' I.D.)	1901198.33	6270589.91
102	TANK CENTER (150' I.D.)	1901080.82	6270705.03
103	TANK CENTER (150' I.D.)	1901071.25	6270460.21
104	TANK CENTER (150' I.D.)	1900953.75	6270575.33
105	PARKING LOT CURB	1901271.06	6270417.92
106	PARKING LOT CURB	1901315.33	6270462.75
107	PARKING LOT CURB	1901337.02	6270498.95
108	PARKING LOT CURB	1901305.71	6270529.86
109	PARKING LOT CURB	1901269.79	6270507.72
110	PARKING LOT CURB	1901225.52	1901225.52
111	CL INTERSECTION	1901326.34	6270588.04
112	CL BVC	1901297.77	6270616.03
113	CL LOW POINT	1901277.26	6270636.12
114	CL EVC	1901226.34	6270686.02
115	CL BVC	1901170.06	6270741.16
116	CL BC	1901138.48	6270772.10
117	CL EVC	1901089.07	6270795.78
118	CL EC	1901018.27	6270770.87
119	CL BVC	1901035.11	6270784.18
120	CL EVC	1900998.34	6270750.52
121	CL HIGH POINT	1900925.43	6270676.10
122	CL FS	1900913.15	6270677.85
123	CL BVC	1901255.06	6270515.28
124	CL INTERSECTION	1901201.04	6270460.15
125	CL HIGH POINT	1901191.58	6270450.49
126	CL EVC	1901185.07	6270443.85
127	CL BVC	1901125.59	6270383.14
128	BC CL ROAD B	1901122.74	6270380.23
129	CL EVC	1901072.91	6270357.81
130	END CONC SWALE BEGIN C&G	1901023.14	6270761.55
131	CONC SWALE	1900993.13	6270730.91
132	CONC SWALE	1900993.82	6270663.17
133	END CONC SWALE	1901048.63	6270609.48
134	CL FS AT RS PUMP STA. WALL	1901148.06	6270512.06
135	STRUCTURE CORNER	1901088.61	6270568.22
136	STRUCTURE CORNER	1901061.61	6270567.94
137	BEGIN TYPE 'B' BROW DITCH	1901274.04	6270398.15
138	ANGLE POINT BROW DITCH	1901310.87	6270435.75
139	ANGLE POINT BROW DITCH	1901325.35	6270447.85
140	INSTALL FH ASSEMBLY	1901222.28	6270459.21
141	CORNER CONC SLAB 23-S-002	1901102.50	6270618.73
142	CORNER CONC SLAB 23-S-002	1901087.82	6270615.65
143	CORNER CONC SLAB 23-S-002	1901113.87	6270564.47
144	CORNER CONC SLAB 23-S-002	1901097.94	6270567.35
145	CORNER CONC SLAB 23-S-002	1901091.79	6270561.07
146	CORNER CONC SLAB 23-S-002	1901094.94	6270545.21
147	CORNER CONC SLAB 23-S-002	1901043.29	6270570.20
148	CORNER CONC SLAB 23-S-002	1901040.51	6270555.46
149	CL BVC	1900934.54	6270685.40
150	CL EVC	1900892.55	6270642.55
151	PCR C&G	1900946.54	6270711.93
152	PCR C&G	1900899.20	6270663.61

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
153	TOE OF SLOPE/PAD EDGE	1900995.09	6270473.13
154	TOE OF SLOPE/PAD EDGE	1900968.23	6270499.45
155	INSIDE CORNER/ GRIDLINE A1	1900988.71	6270460.65
156	INSIDE CORNER/ GRIDLINE C2	1900946.05	6270482.10
157	CL INTERSECTION	1900924.51	6270675.16

- NOTES:**
- SEE DWG Y-106 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
 - GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
 - THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - LENGTH OF RAIN GUTTER MEASURED ALONG FACE OF WALL AT CLARIFIER TANK, ALUMINUM TYPE 'K' 8" RAIN GUTTER, R=7.25'. GUTTER PER FRTL AND GUTTER SUPPLY LLC. OR EQUAL. CONTRACTOR TO SUBMIT COLOR TO CITY FOR APPROVAL.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DEMOLITION DETAILS ON DWG CX-106.



PK2-CG-106

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL SITE GRADING & LOCATION PLAN - AREA 6

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 75 OF 1169 SHEETS



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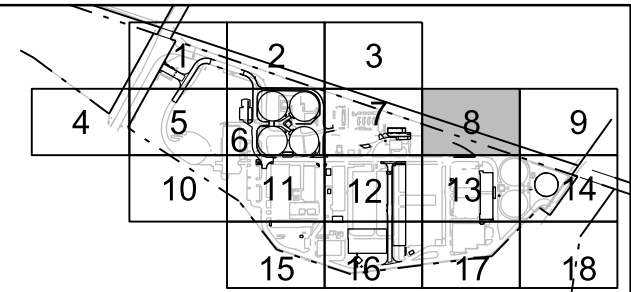
2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
Fax: 760-931-8680
O'DayConsultants.com

Civil Engineering
Planning
Processing
Surveying

DATE STARTED: 12/03/2020
DATE COMPLETED: 1/15/21

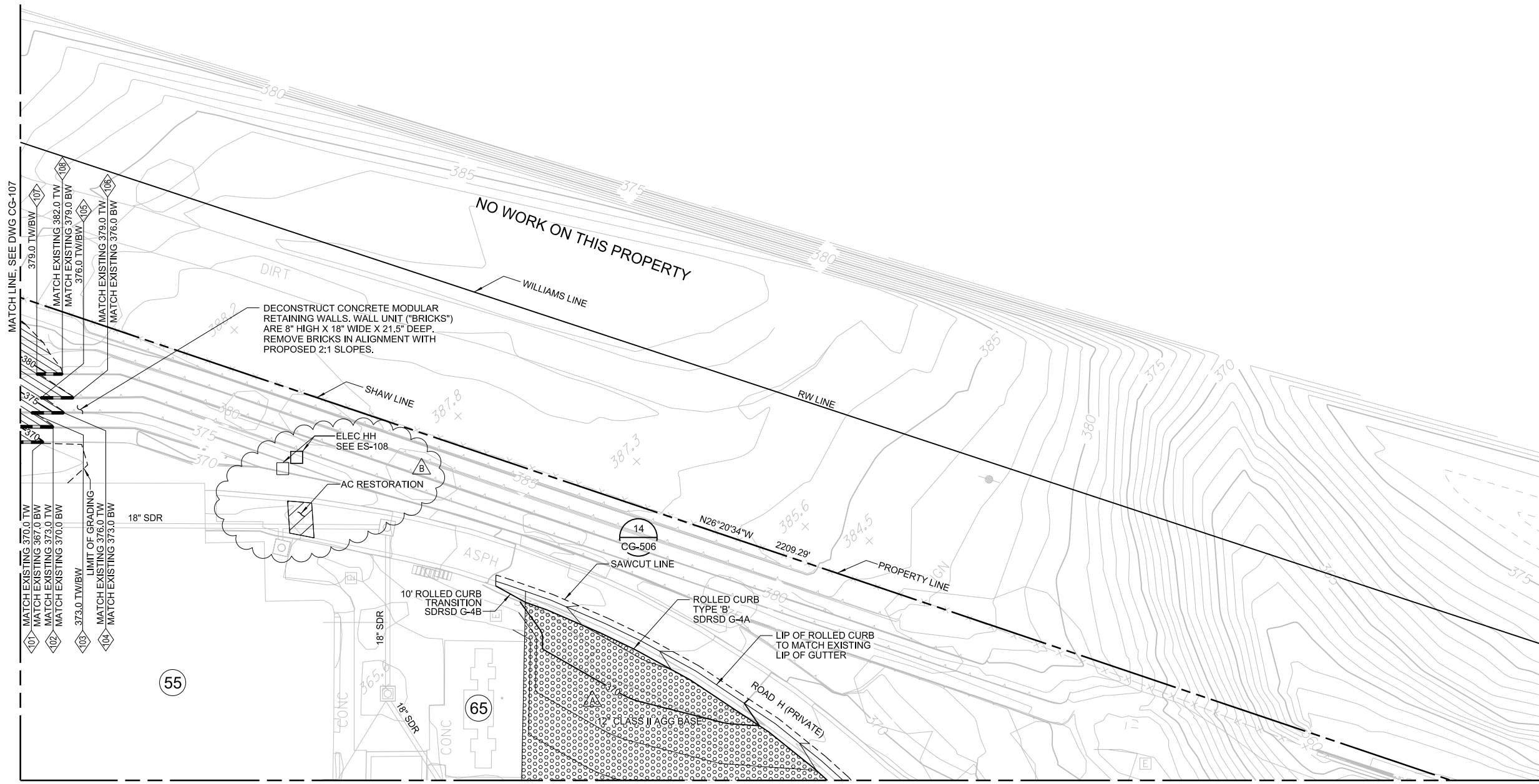
CONTRACTOR: _____
INSPECTOR: _____

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



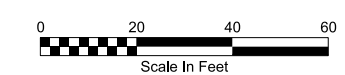
KEYPLAN
NTS

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	BEGIN WALL - MATCH EXISTING	1900542.20	6271045.38
102	END WALL - MATCH EXISTING	1900543.44	6271051.31
103	BEGIN WALL	1900551.84	6271049.59
104	END WALL - MATCH EXISTING	1900544.28	6271057.17
105	BEGIN WALL	1900553.21	6271055.30
106	END WALL - MATCH EXISTING	1900545.60	6271062.95
107	BEGIN WALL	1900559.81	6271059.93
108	END WALL - MATCH EXISTING	1900553.76	6271066.00



NOTES:

- SEE DWG Y-108 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
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- THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
- SEE DEMOLITION DETAILS ON DWG CX-108.



PK2-CG-108

**CIVIL
SITE GRADING & LOCATION
PLAN - AREA 8**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 77 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: [Signature] FOR CITY ENGINEER	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andrea Demuth	RCE#: C70321	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	[Signature] 1/15/21
▲ Addendum B	CH	[Signature] 2/3/21
DATE STARTED		DATE COMPLETED
		40381-2077-D

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2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
Fax: 760-931-8680
O'DayConsultants.com

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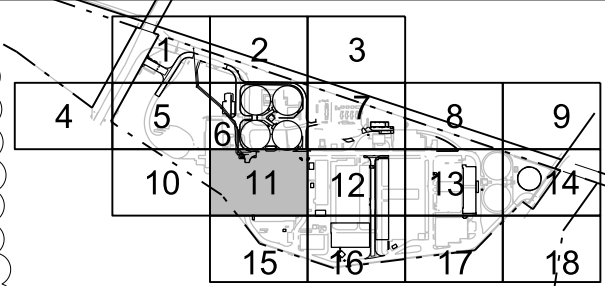
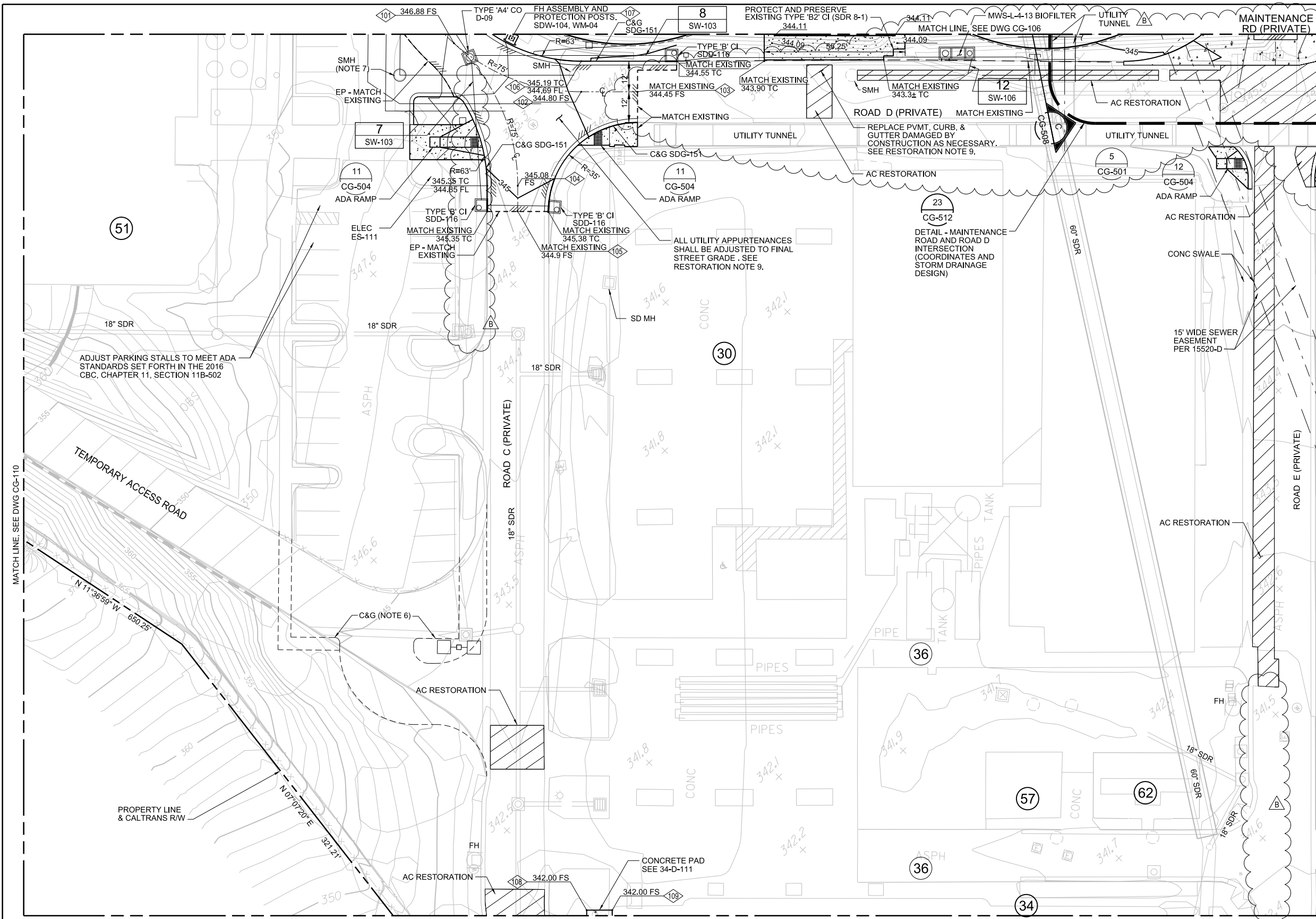
REGISTERED PROFESSIONAL ENGINEER
KATH W. HANSEN
NO. 60223
DATE 6-20-2021
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

WARNING

0 1

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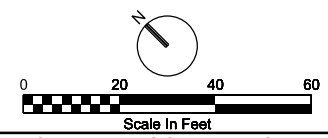


KEYPLAN
NTS

COORDINATE TABLE

NO	DESCRIPTION	NORTHING	EASTING
101	BC CL ROAD C/ROAD D	1901064.93	6270357.83
102	EC CL ROAD D	1901016.14	6270379.67
103	END CL	1901000.51	6270395.30
104	EC CL ROAD C	1901007.66	6270335.97
105	END CL-MATCH EXISTING	1901000.55	6270328.86
106	EC C&G	1901024.62	6270388.16
107	FH ASSEMBLY	1901050.27	6270375.24
108	CORNER CONC PAD	1900787.48	6270154.03
109	CORNER CONC PAD	1900780.39	6270161.14

- NOTES:**
- SEE DWG Y-111 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
 - GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
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 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - NCPWF INFLUENT PUMP STATION AND CONVEYANCE CONTRACT.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DEMOLITION DETAILS ON DWG CX-111.
 - SEE SECTION 400 "PROTECTION AND RESTORATION" AND SECTION 401 "REMOVAL" OF THE 2018 GREEN BOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS MODIFIED BY THE CITY OF SAN DIEGO SUPPLEMENTAL WHITEBOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



PK2-CG-111

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
SITE GRADING & LOCATION
PLAN - AREA 11

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 78 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Janice</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION: Addendum B	BY: CH	PROJECT ENGINEER: THIEN-LONG TRAN
APPROVED: <i>Janice</i>	DATE: 2/3/21	260-1709
		1900-6269
		40381-2078-D
CONTRACTOR	DATE STARTED	DATE COMPLETED
INSPECTOR		

CONSULTANT

O'Day
CONSULTANTS

2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
Fax: 760-931-8680
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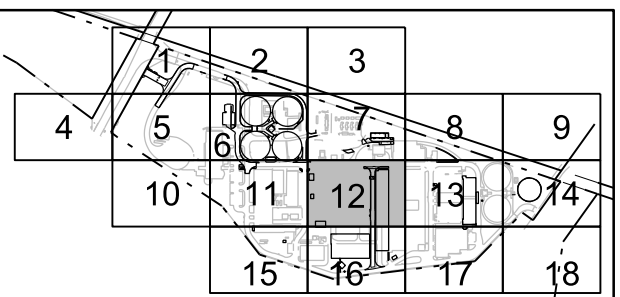
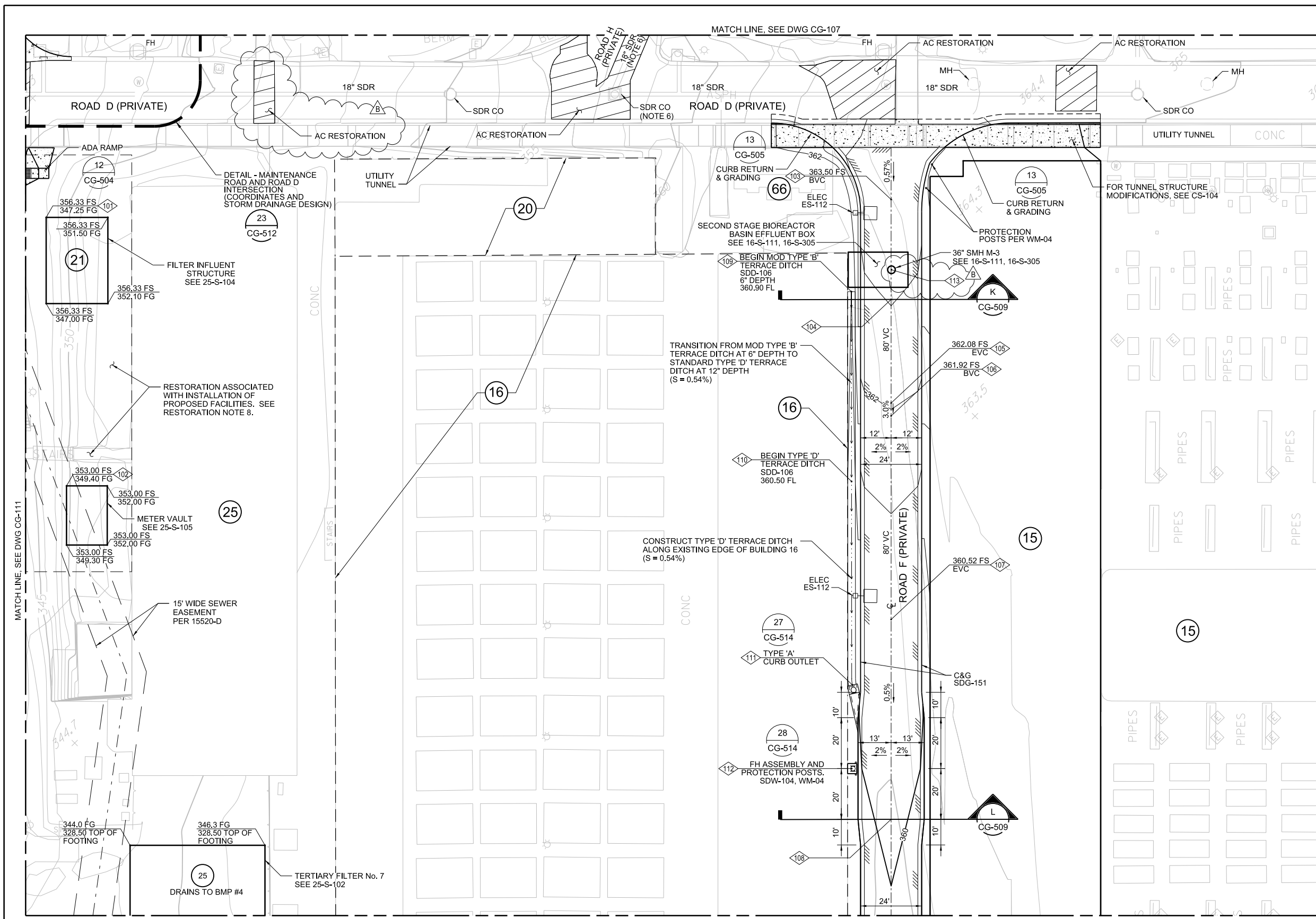
Civil Engineering
Planning
Processing
Surveying

REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
NO. 60223
DATE 6-30-2022
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

WARNING

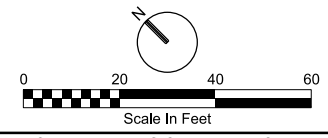
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



KEYPLAN
NTS

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	FILTER INFLUENT STRUCTURE	1900770.95	6270555.57
102	METER VAULT	1900690.69	6270486.63
103	BEGIN VERTICAL CURVE	1900541.19	6270795.29
104	CL ROAD F - SECTION K	1900513.42	6270767.52
105	END VERTICAL CURVE	1900484.62	6270738.72
106	BEGIN VERTICAL CURVE	1900481.05	6270735.14
107	END VERTICAL CURVE	1900424.48	6270678.57
108	CL ROAD F - SECTION L	1900368.96	6270623.06
109	BEGIN MOD TERRACE DITCH	1900526.63	6270758.64
110	END MOD TERRACE DITCH	1900473.83	6270705.94
111	TYPE 'A' CURB OUTLET	1900417.03	6270649.64
112	FIRE HYDRANT ASSEMBLY	1900394.01	6270626.19
113	SMH	1900521.57	6270775.87

- NOTES:**
- SEE DWG Y-112 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
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 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DEMOLITION DETAILS ON DWG CX-112.
 - SEE SECTION 400 "PROTECTION AND RESTORATION" AND SECTION 401 "REMOVAL" OF THE 2018 GREEN BOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS MODIFIED BY THE CITY OF SAN DIEGO SUPPLEMENTAL WHITEBOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



PK2-CG-112

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
SITE GRADING & LOCATION
PLAN - AREA 12

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 79 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: FOR CITY ENGINEER PRINT DCE NAME DATE C70321 RCE#	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER THIEN-LONG TRAN PROJECT ENGINEER	
DESCRIPTION Addendum B	BY CH	APPROVED DATE 2/3/21 FILM
DATE STARTED		40381-2079-D
DATE COMPLETED		

CONSULTANT

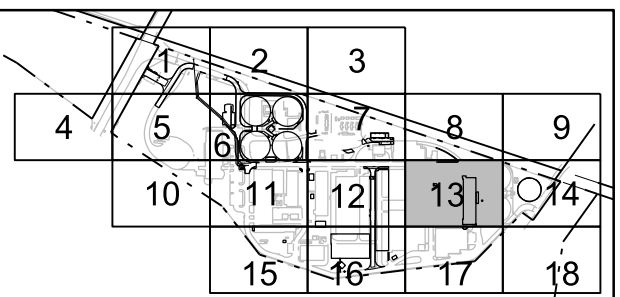
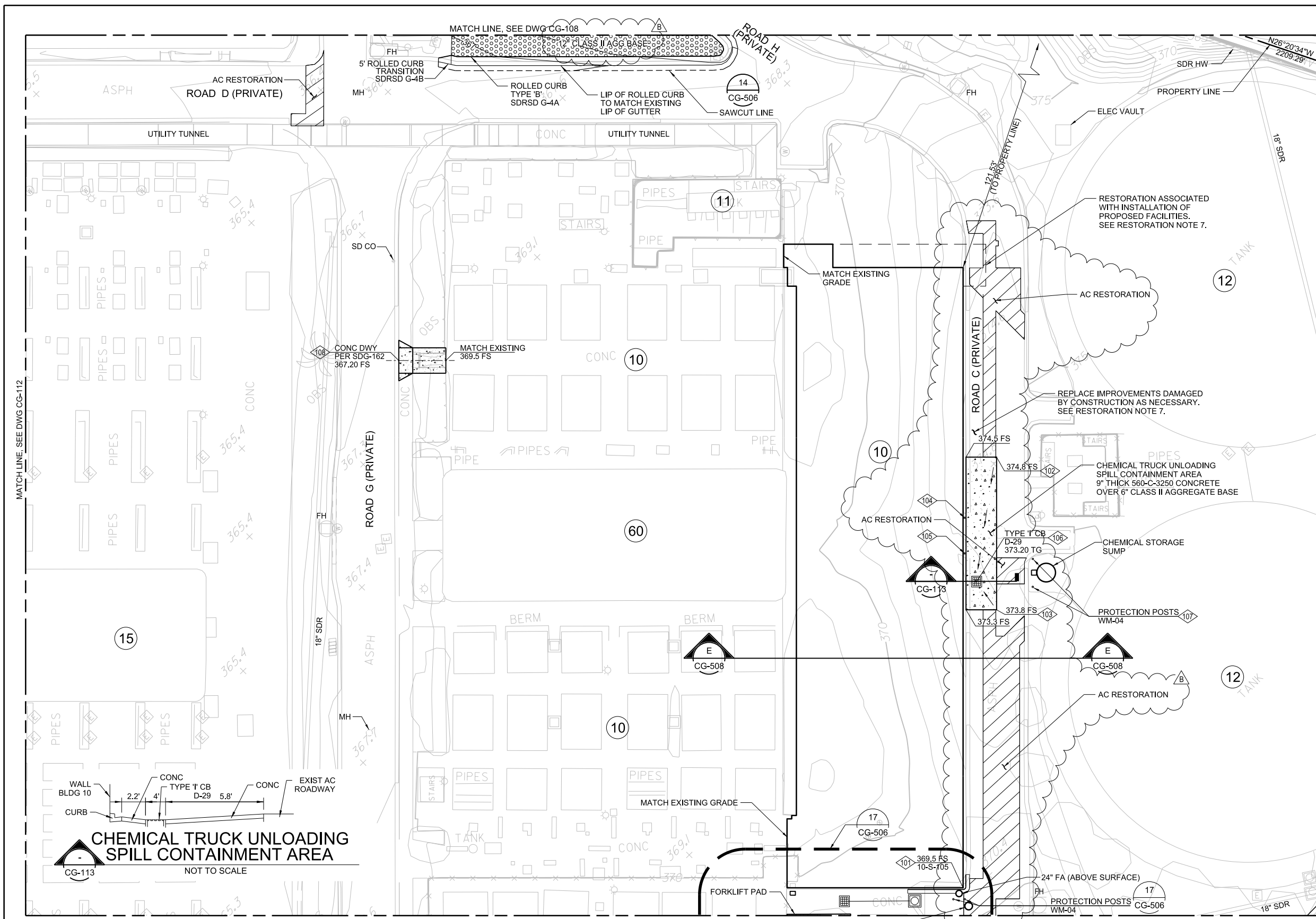
O'Day
CONSULTANTS

2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
Fax: 760-931-8680
O'DayConsultants.com

Civil Engineering
Planning
Processing
Surveying

REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
No. 60223
Exp. 6-30-2022
CIVIL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 01/27/2021

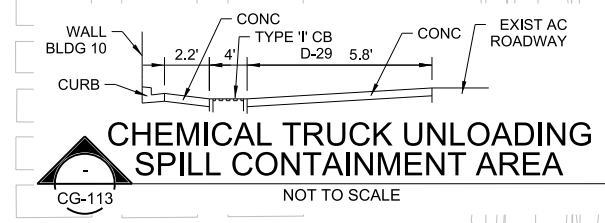
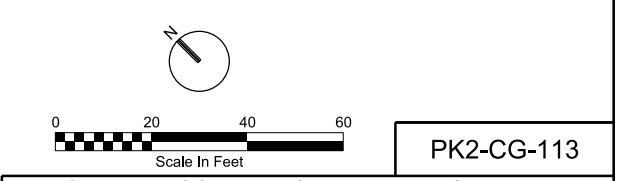
WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



COORDINATE TABLE

NO	DESCRIPTION	NORTHING	EASTING
101	BLDG CORNER	1899970.32	6270983.58
102	CONC PAD CORNER	1900080.68	6271112.56
103	CONC PAD CORNER	1900038.26	6271070.14
104	PROTECTION POST WM-04	1900072.71	6271086.82
105	PROTECTION POST WM-04	1900062.81	6271076.92
106	TYPE 'I' CB	1900051.62	6271072.42
107	PROTECTION POSTS WM-04	1900042.34	6271094.34
		1900034.59	6271086.56
108	CL 10' WIDE DRIVEWAY	1900273.61	6271018.32

- NOTES:**
- SEE DWG Y-113 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
 - GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
 - THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - SEE DEMOLITION DETAILS ON DWG CX-113.
 - SEE SECTION 400 "PROTECTION AND RESTORATION" AND SECTION 401 "REMOVAL" OF THE 2018 GREEN BOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS MODIFIED BY THE CITY OF SAN DIEGO SUPPLEMENTAL WHITEBOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



PK2-CG-113
 NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL SITE GRADING & LOCATION PLAN - AREA 13

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 80 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demichis	DATE: 12/03/2020 C7/0321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION: Addendum B	BY: CH	THIEN-LONG TRAN PROJECT ENGINEER
APPROVED: <i>[Signature]</i>	DATE: 2/3/21	260-1709 CCS27 COORDINATE
		1900-6269 CCS83 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____	40381-2080-D
INSPECTOR: _____	DATE COMPLETED: _____	

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O'Day CONSULTANTS

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Suite 100
Carlsbad, California 92010
760-931-7700
760-931-8680
Fax: 760-931-8680
OdayConsultants.com

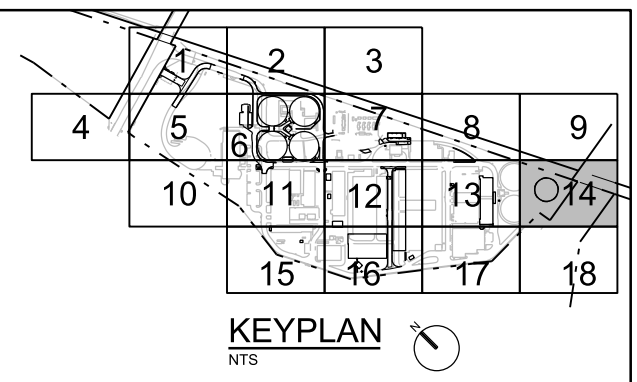
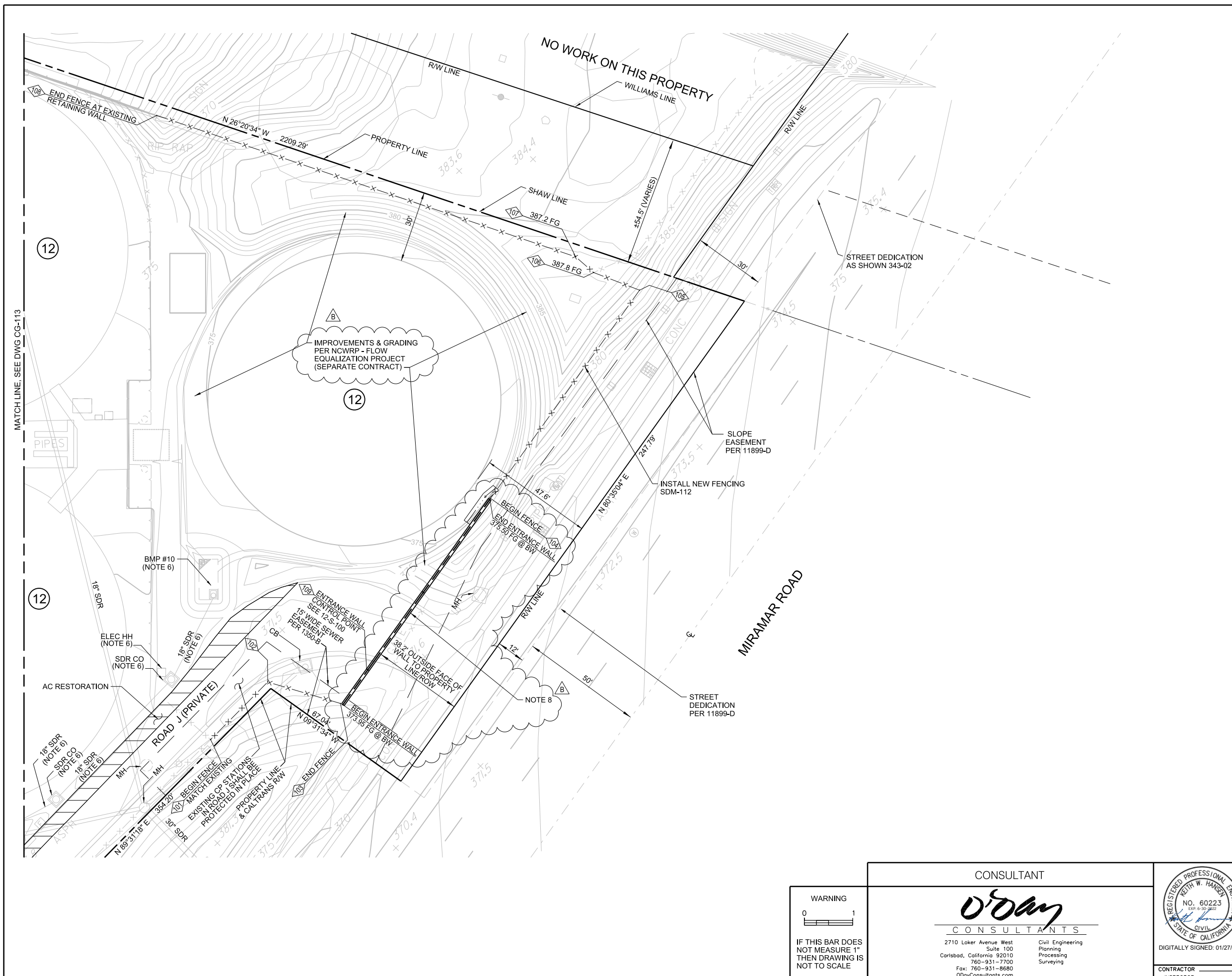
Civil Engineering
Planning
Processing
Surveying

REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
NO. 60223
DATE 6-20-2003
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

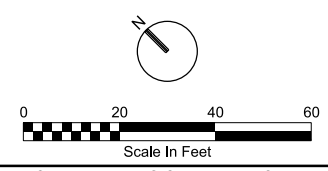
WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	BEGIN FENCE	1899843.03	6271165.34
102	FENCE CORNER	1899843.20	6271199.36
103	END FENCE	1899815.26	6271214.60
104	BEGIN FENCE	1899831.58	6271320.02
105	FENCE CORNER	1899849.16	6271426.03
106	FENCE CORNER	1899868.04	6271417.64
107	FENCE CORNER	1899878.02	6271416.98
108	END FENCE @ RETAINING WALL	1900044.32	6271334.63
109	ENTRANCE WALL CONTROL POINT	1899817.76	6271232.60

- NOTES:**
- SEE DWG Y-114 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
 - GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
 - THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - FLOW EQUALIZATION CONTRACT.
 - SEE DEMOLITION DETAILS ON DWG CX-114.
 - WALL & GATE SHALL BE CONSTRUCTED UPON COMPLETION OF NCWRP - FLOW EQUALIZATION PROJECT. NCWRP - FLOW EQUALIZATION PROJECT IS BY SEPARATE CONTRACT.



PK2-CG-114

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
SITE GRADING & LOCATION
PLAN - AREA 14

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 81 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER
DESIGNER: THIEN-LONG TRAN PROJECT ENGINEER	DATE: 2/3/21	PROJECT NO: 260-1709
DESCRIPTION: Addendum B	BY: CH	COORDINATE: 1900-6269
CONTRACTOR: _____		COORDINATE: 40381-2081-D
INSPECTOR: _____		DATE STARTED: _____
DATE COMPLETED: _____		

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Suite 100
Carlsbad, California 92010
760-931-7700
760-931-8680
OdayConsultants.com

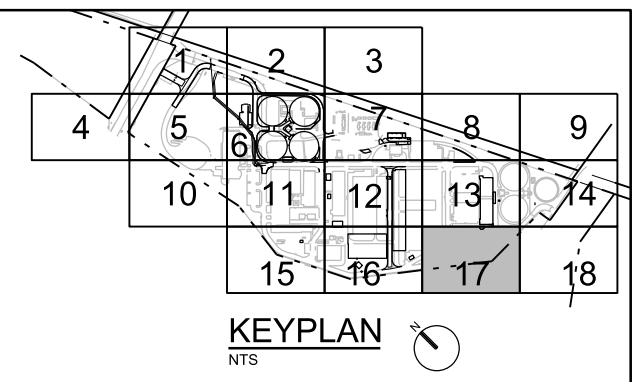
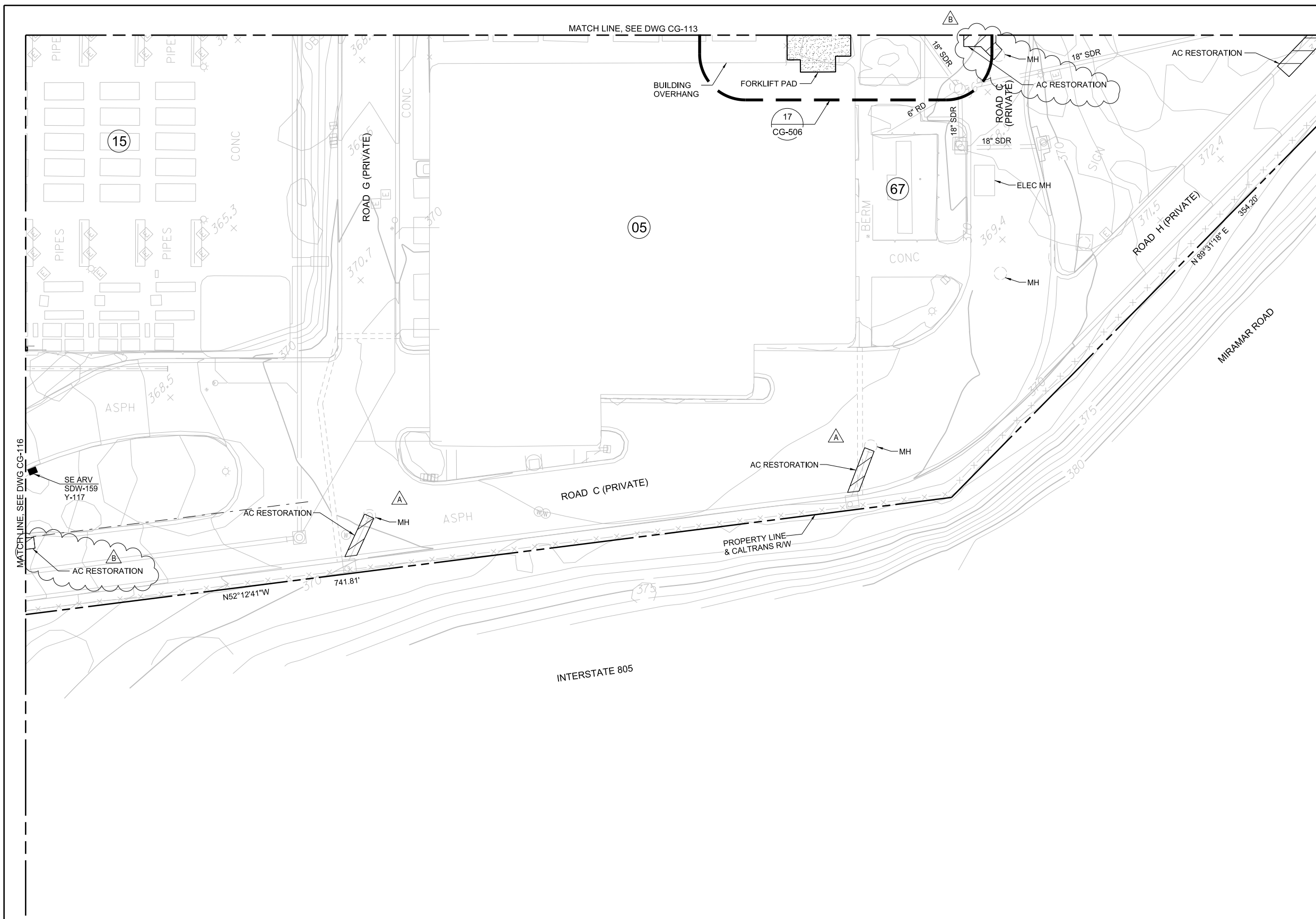
Civil Engineering
Planning
Processing
Surveying

REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
 NO. 60223
 EXP. 6-30-2022
 CIVIL
 STATE OF CALIFORNIA

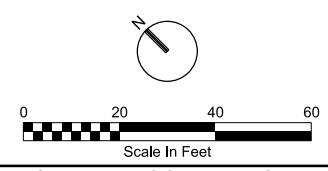
DIGITALLY SIGNED: 01/27/2021

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



- NOTES:**
- SEE DWG Y-117 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
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 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.



PK2-CG-117

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
SITE GRADING & LOCATION
PLAN - AREA 17

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 84 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 DATE: 07/03/21 RCE#	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>[Signature]</i>
▲ Addendum B	CH	<i>[Signature]</i>
		DATE
		1/15/21
		2/3/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
		40381-2084-D

CONSULTANT

O'Day
CONSULTANTS

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Carlsbad, California 92010
760-931-7700
Fax: 760-931-8680
OdayConsultants.com

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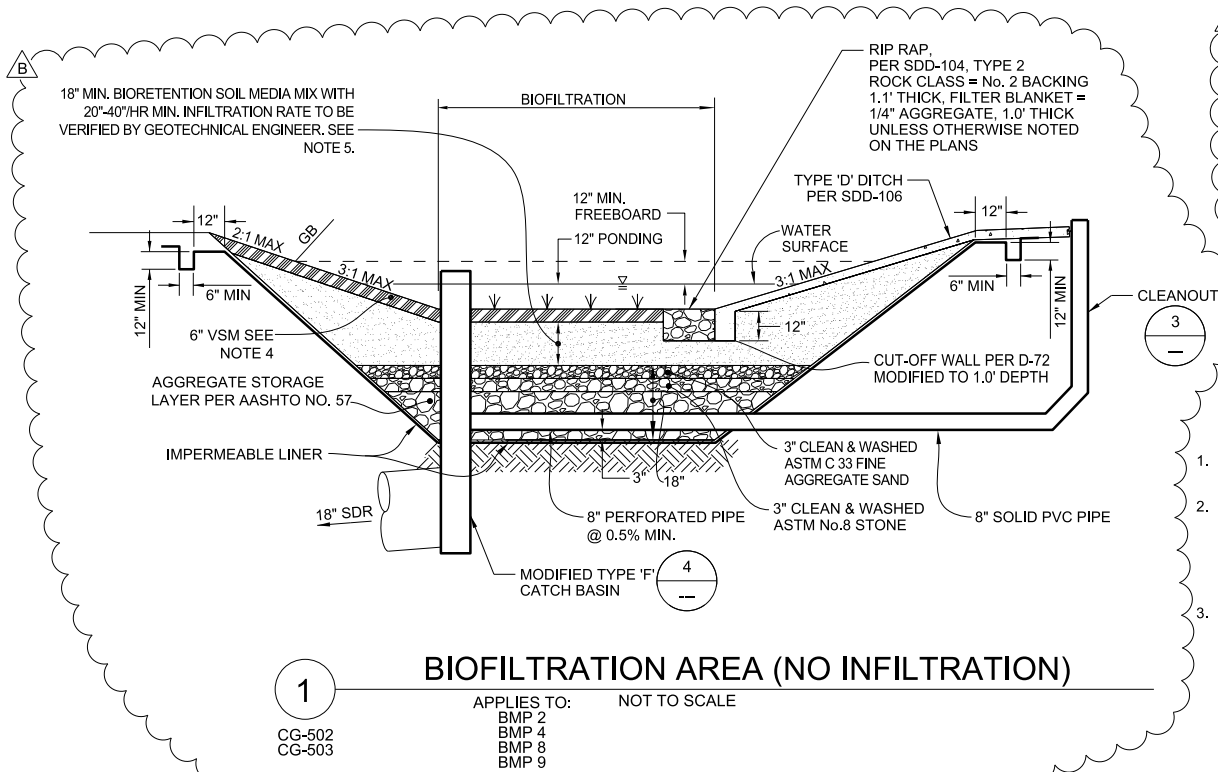
REGISTERED PROFESSIONAL ENGINEER
 KEITH W. HANSEN
 NO. 60223
 EXP. 6-30-2020
 CIVIL
 STATE OF CALIFORNIA
 DIGITALLY SIGNED: 01/27/2021

WARNING

0 1

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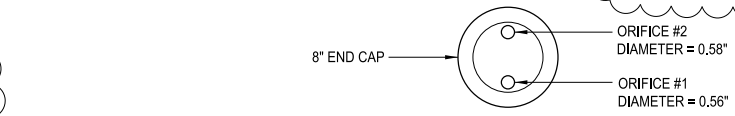
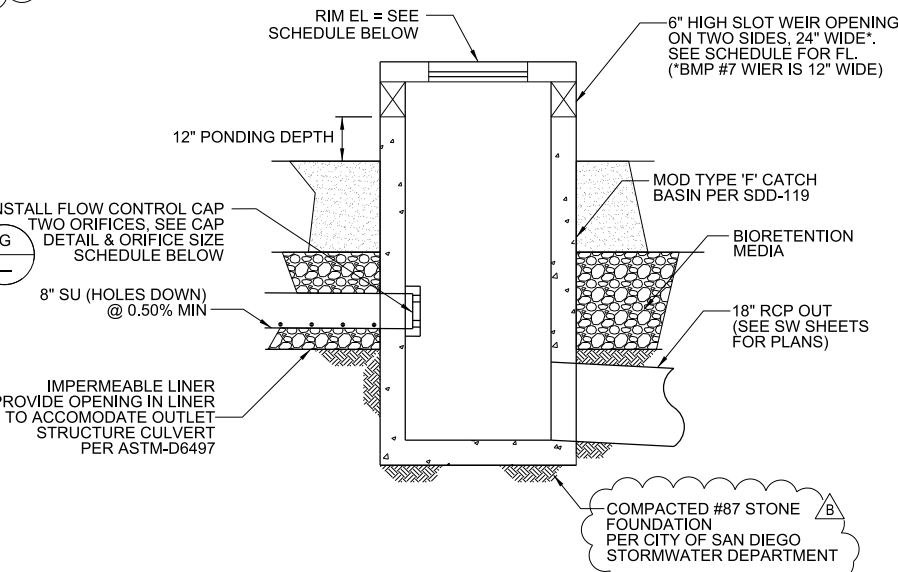
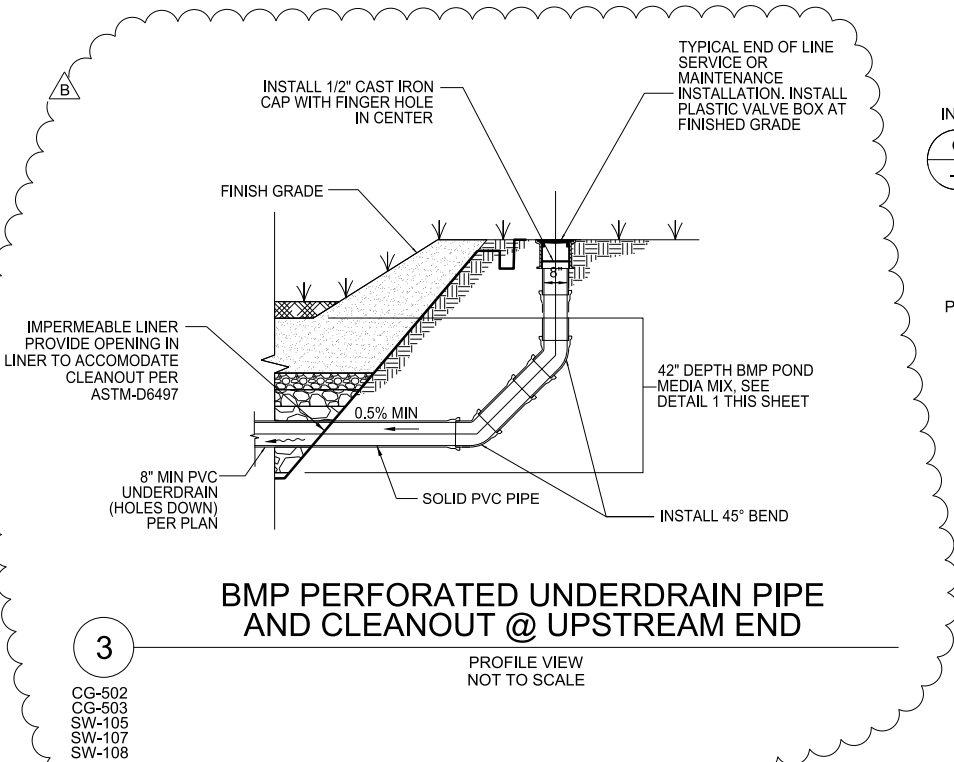
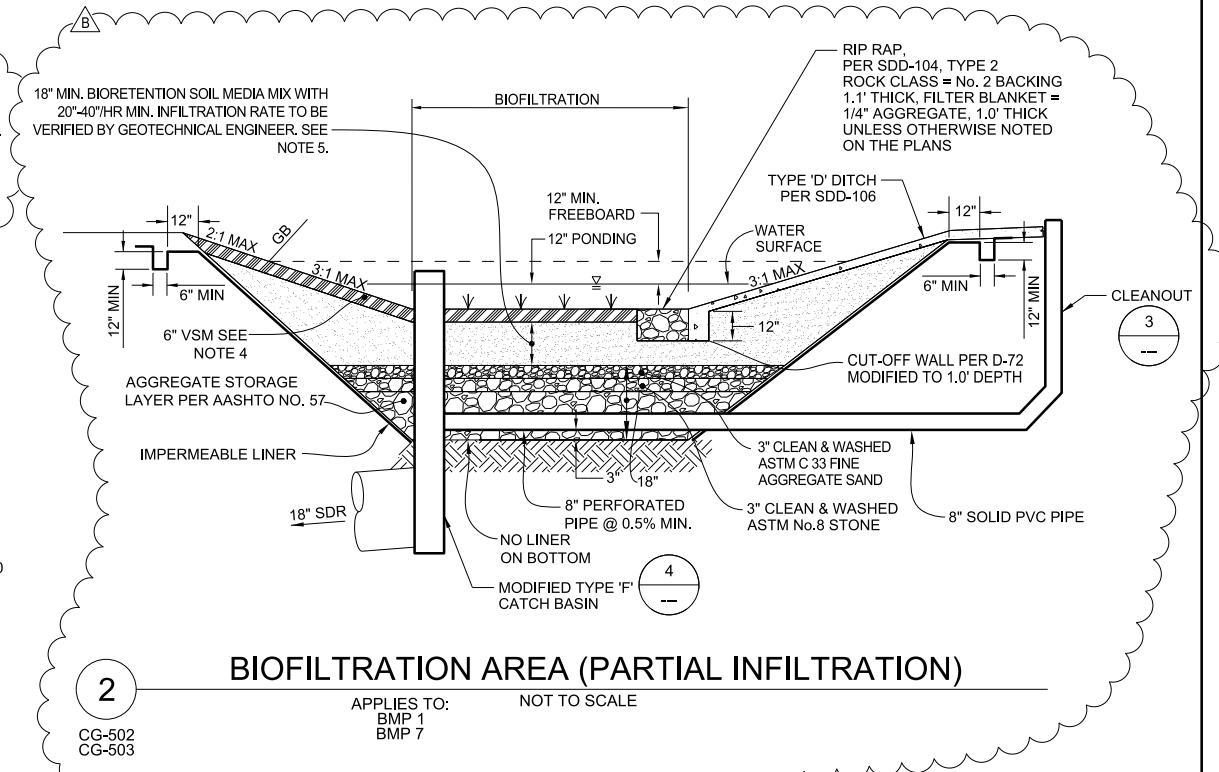
CONTRACTOR _____ DATE STARTED _____
 INSPECTOR _____ DATE COMPLETED _____



- NOTES:**
1. BMP TO COMPLY WITH CITY OF SAN DIEGO 2018 STORMWATER STANDARDS
 2. BMP SHALL BE REVIEWED AND APPROVED BY GEOTECHNICAL ENGINEER.
 3. SELECTED PLANTS TO BE SUITABLE FOR CLIMATE AND EXPECTED PONDING DEPTH.
 4. VEGETATIVE SUPPORT MATERIAL (VSM) PER SECTION 2.14 OF SPEC 31 23 23.
 5. BIORETENTION SOIL MEDIA SHALL COMPLY WITH SECTION 2.11 OF SPEC 31 23 23.
 6. BMPs SHOULD ADHERE TO APPENDIX E.19 BF-2 NUTRIENT SENSITIVE MEDIA DESIGN OF THE CITY OF SAN DIEGO 2018 STORMWATER STANDARDS.

STORM WATER REQUIREMENTS:

1. THIS PROJECT IS SUBJECT TO MUNICIPAL CODE SECTION 4303 AND ORDER NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100.
2. ALL WORK RELATED TO POST-CONSTRUCTION STORMWATER QUALITY SHALL BE IN ACCORDANCE WITH THE STORM WATER QUALITY MANAGEMENT PLAN ENTITLED: PROJECT NAME: NORTH CITY WATER RECLAMATION PLANT EXPANSION SWQMP PROJECT ADDRESS: 4949 EASTGATE MALL, SAN DIEGO, CA 92121 PREPARED BY: O'DAY CONSULTANTS, 2710 LOKER AVE W # 100, CARLSBAD, CA 92010 DATE PREPARED: MAY 22, 2020
3. POST-CONSTRUCTION BMPs ARE REQUIRED, SEE SHEETS: PK2-CG-502, PK2-CG-503



POST CONSTRUCTION BMP CERTIFICATION

AS THE PROFESSIONAL IN RESPONSIBLE CHARGE FOR THE DESIGN OF THIS PROJECT, I CERTIFY THAT I HAVE INSPECTED ALL CONSTRUCTED LOW IMPACT DEVELOPMENT (LID) SITE DESIGN, SOURCE CONTROL, HYDROMODIFICATION MANAGEMENT, AND TREATMENT CONTROL BMPs REQUIRED PER THE STORM WATER STANDARDS MANUAL AND CONTRACT REQUIREMENTS AND THAT SAID BMPs HAVE BEEN CONSTRUCTED IN COMPLIANCE WITH THE APPROVED PLANS AND ALL APPLICABLE SPECIFICATION, PERMITS, ORDINANCES AND SAN DIEGO REGIONAL MS4 PERMIT.

I UNDERSTAND THAT THIS BMP CERTIFICATION STATEMENT DOES NOT CONSTITUTE AN OPERATION AND MAINTENANCE VERIFICATION.

SIGNATURE: _____
 DATE OF SIGNATURE: _____
 PRINTED NAME: _____
 TITLE: _____
 PHONE NUMBER: _____

	ORIFICE #1	ORIFICE #2	RIM ELEV	FL ELEV OF OPENING
BMP 1	2.62"	2.73"	334.33	333.20
BMP 2	0.93"	0.97"	347.43	346.30
BMP 4	0.37"	0.39"	344.43	343.30
BMP 7	0.56"	0.58"	363.13	362.00
BMP 8	0.56"	0.58"	356.03	354.90
BMP 9	0.56"	0.58"	358.63	357.50

WARNING

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 760-931-7700
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Civil Engineering
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REGISTERED PROFESSIONAL ENGINEER
 KEITH W. HANSEN
 No. 60223
 Exp. 6-30-2022
 CIVIL
 STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

CONTRACTOR _____
 INSPECTOR _____

PK2-CG-501

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CIVIL SITE GRADING PLAN - DETAILS

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC UTILITIES DEPARTMENT
 SHEET 85 OF 1169 SHEETS

APPROVED: *Janice* DATE: 12/03/2020
 FOR CITY ENGINEER: Andrea Demich DATE: C/0321

PRINT DCE NAME: RCE#

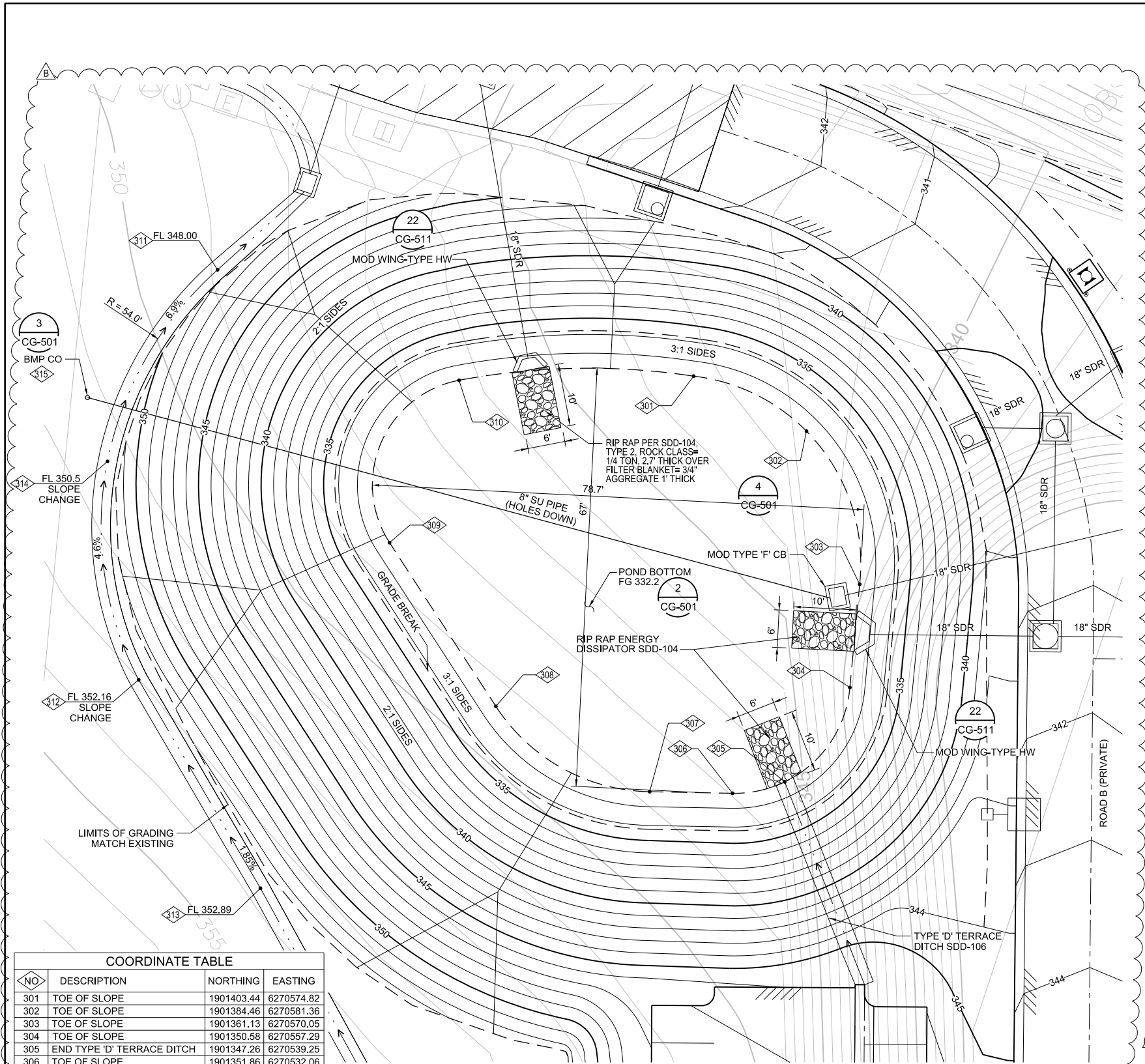
DESIGNED BY: *Janice*
 CHECKED BY: *Janice*
 APPROVED: *Janice* DATE: 2/3/21

PROJECT MANAGER: **MONIKA SMOCZYNSKI**
 PROJECT ENGINEER: **THIEN-LONG TRAN**

260-1709
 1900-6269

DATE STARTED _____
 DATE COMPLETED _____

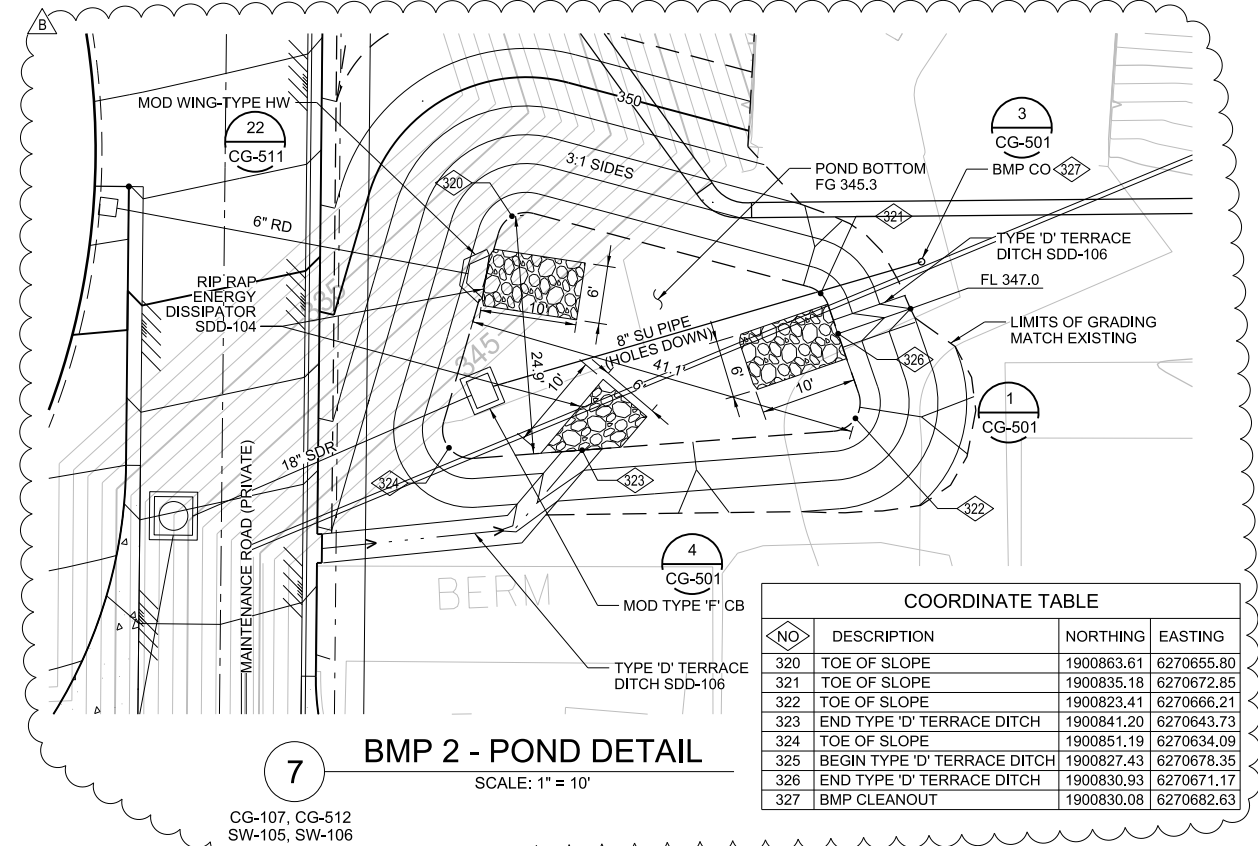
40381-2085-D



6 **BMP 1 - POND DETAIL**
SCALE: 1" = 10'

CG-101, CG-102, CG-106
SW-101, SW-102, SW-104, SW-105

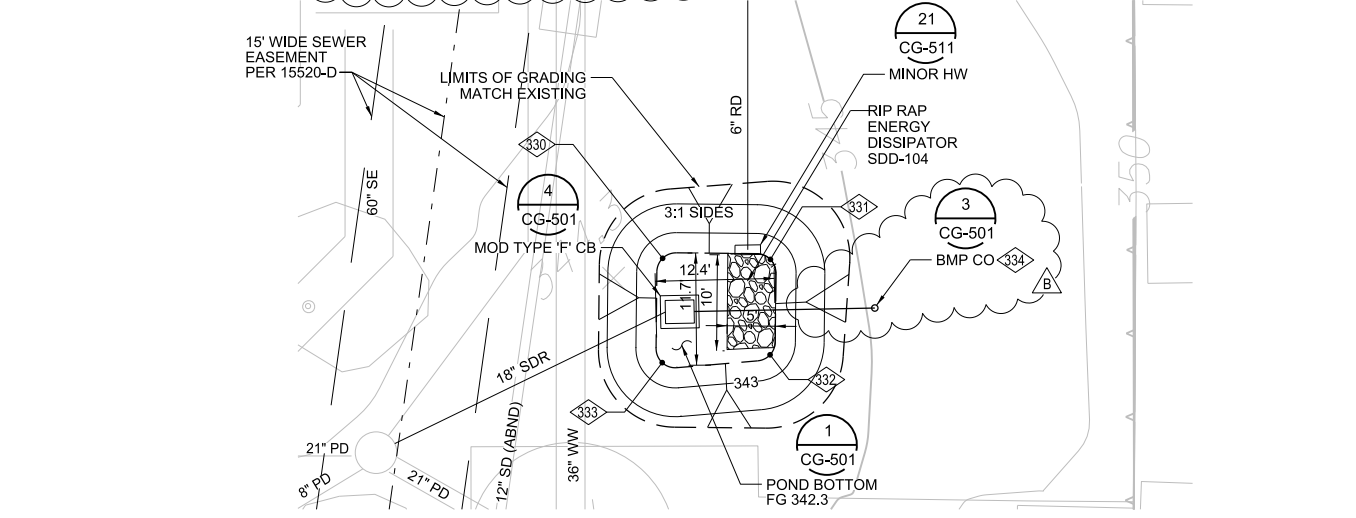
NO	DESCRIPTION	NORTHING	EASTING
301	TOE OF SLOPE	1901403.44	6270574.82
302	TOE OF SLOPE	1901384.46	6270581.36
303	TOE OF SLOPE	1901361.13	6270570.05
304	TOE OF SLOPE	1901350.58	6270557.29
305	END TYPE 'D' TERRACE DITCH	1901347.26	6270539.25
306	TOE OF SLOPE	1901351.86	6270532.06
307	TOE OF SLOPE	1901361.42	6270522.86
308	TOE OF SLOPE	1901388.46	6270515.13
309	TOE OF SLOPE	1901418.99	6270521.62
310	TOE OF SLOPE	1901429.49	6270547.83
311	ANGLE POINT - DITCH FL	1901469.29	6270533.03
312	ANGLE POINT - DITCH FL	1901431.86	6270477.75
313	ANGLE POINT - DITCH FL	1901394.51	6270467.94
314	POC - DITCH FL	1901460.07	6270498.92
315	BMP CLEANOUT	1901469.55	6270503.88



7 **BMP 2 - POND DETAIL**
SCALE: 1" = 10'

CG-107, CG-512
SW-105, SW-106

NO	DESCRIPTION	NORTHING	EASTING
320	TOE OF SLOPE	1900863.61	6270655.80
321	TOE OF SLOPE	1900835.18	6270672.85
322	TOE OF SLOPE	1900841.21	6270666.21
323	END TYPE 'D' TERRACE DITCH	1900841.20	6270643.73
324	TOE OF SLOPE	1900851.19	6270634.09
325	BEGIN TYPE 'D' TERRACE DITCH	1900827.43	6270678.35
326	END TYPE 'D' TERRACE DITCH	1900830.93	6270671.17
327	BMP CLEANOUT	1900830.08	6270682.63



8 **BMP 4 - POND DETAIL**
SCALE: 1" = 10'

CG-116
SW-109

NO	DESCRIPTION	NORTHING	EASTING
330	TOE OF SLOPE	1900527.90	6270367.55
331	TOE OF SLOPE	1900519.87	6270375.41
332	TOE OF SLOPE	1900512.87	6270368.36
333	TOE OF SLOPE	1900520.24	6270359.83
334	BMP CLEANOUT	1900508.60	6270379.52

WARNING
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PK2-CG-502

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CIVIL SITE GRADING PLAN - DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 86 OF 1169 SHEETS

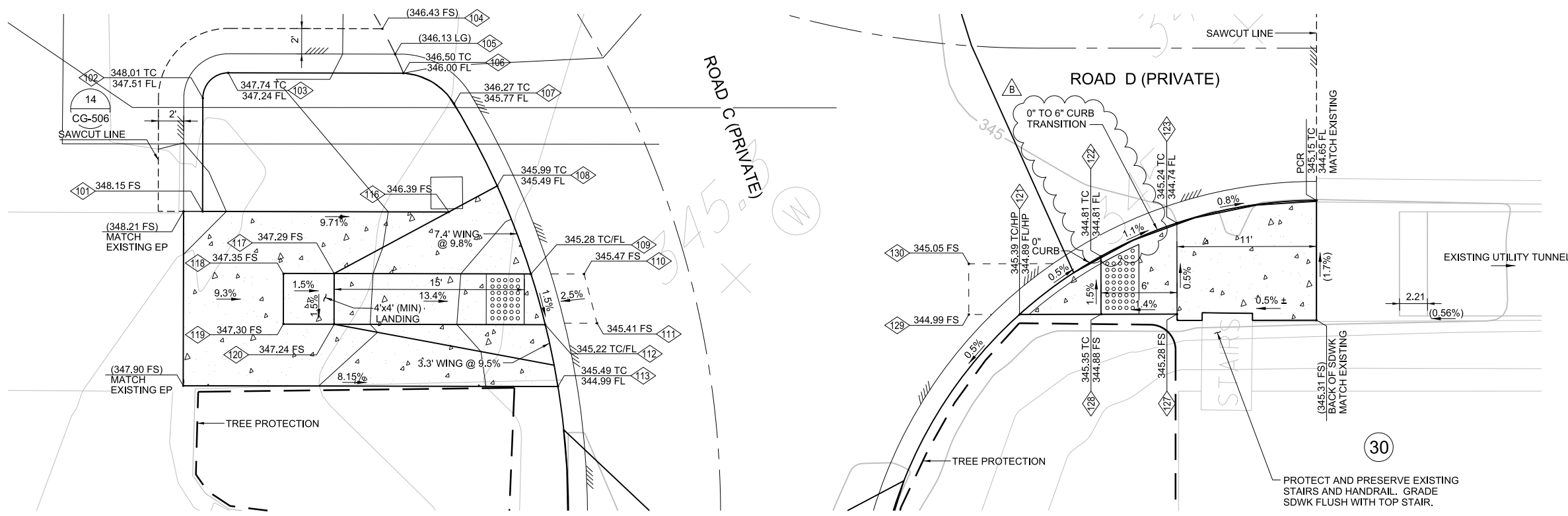
APPROVED: *Janice L...* DATE: 12/03/2020
FOR CITY ENGINEER: Andrea Demich DATE: C/7/3/21
PRINT DCE NAME: RCE#

PROJECT MANAGER: **MONIKA SMOCZYNSKI**
PROJECT ENGINEER: **THIEN-LONG TRAN**

DESCRIPTION	BY	APPROVED	DATE	FIRM
Addendum B	CH	<i>Janice L...</i>	2/3/21	260-1709

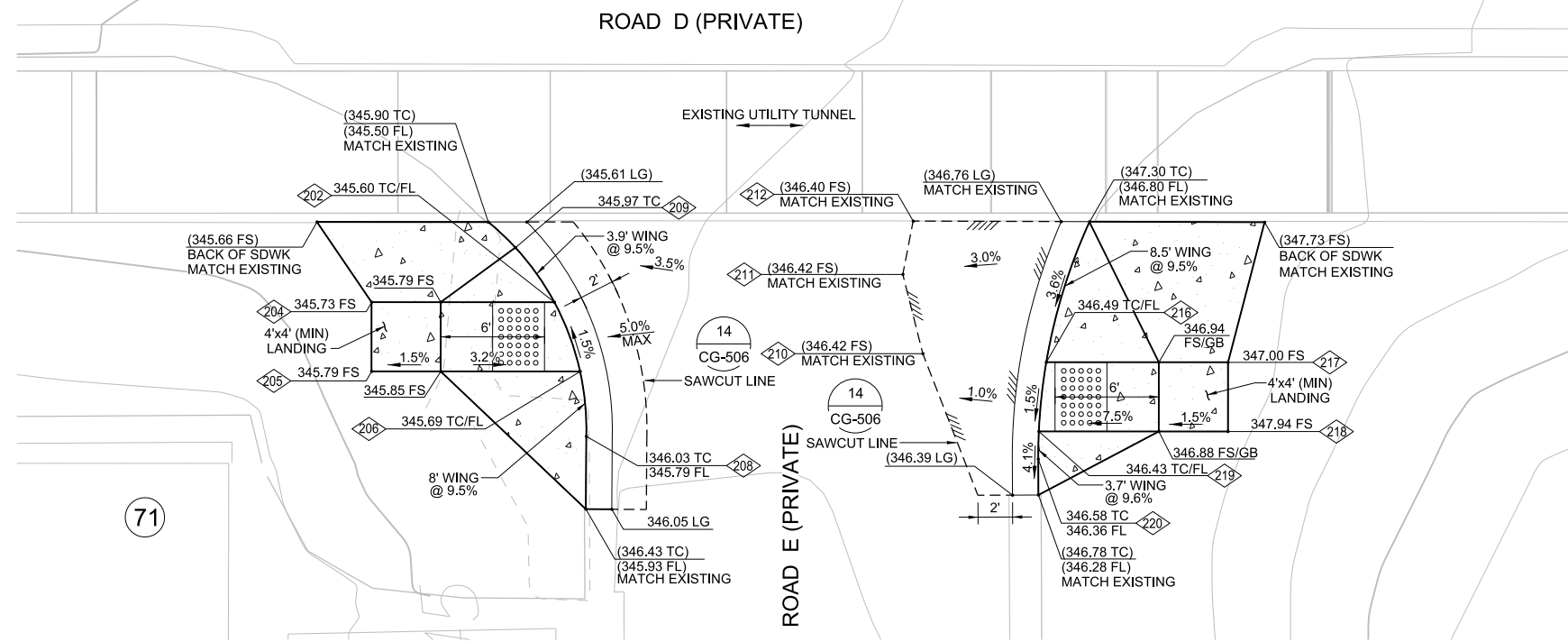
260-1709
CCS27 COORDINATE: 1900-6269
CCS83 COORDINATE: 40381-2086-D

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____



11 ROAD C - ADA RAMP DETAILS
 PER SDG-133, 135, 136
 SCALE: 1" = 5'
 CG-111

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	TOP OF CURB	1901053.54	6270324.06
102	TOP OF 6" CURB - PCR	1901059.84	6270330.40
103	TOP OF 6" CURB - PCR	1901059.84	6270333.22
104	FINISH SURFACE AT SAWCUT	1901053.70	6270344.28
105	LIP OF GUTTER	1901051.57	6270343.57
106	TOP OF 6" CURB - PCR	1901050.04	6270342.98
107	TOP OF 6" CURB - PCR	1901045.52	6270344.09
108	TOP OF 6" CURB	1901038.53	6270341.92
109	TOP OF 0" CURB	1901031.74	6270338.90
110	FINISH SURFACE AT ADA LANDING	1901028.77	6270341.85
111	FINISH SURFACE AT ADA LANDING	1901025.30	6270339.83
112	TOP OF 0" CURB	1901028.11	6270336.86
113	TOP OF 6" CURB	1901023.96	6270334.12
114	NOT USED		
115	NOT USED		
116	EDGE OF PVMT AT 7' WING	1901039.78	6270337.77
117	FINISH SURFACE/GB	1901042.74	6270327.94
118	FINISH SURFACE AT LANDING	1901045.57	6270325.12
119	FINISH SURFACE AT LANDING	1901042.75	6270322.29
120	FINISH SURFACE/GB	1901039.92	6270325.11
121	TOP OF 6" CURB	1901002.23	6270363.89
122	TOP OF 0" CURB	1901000.93	6270371.67
123	TOP OF 6" CURB/GB	1900998.56	6270377.77
124	NOT USED		
125	NOT USED		
126	NOT USED		
127	TOP OF ADA RAMP/GB	1900993.46	6270372.69
128	TOP OF 6" CURB	1900997.69	6270368.44
129	FINISH SURFACE AT ADA LANDING	1901005.05	6270361.05
130	FINISH SURFACE AT ADA LANDING	1901007.89	6270363.88



12 ROAD E - ADA RAMP DETAILS
 PER SDG-133
 SCALE: 1" = 5'
 CG-111, CG-112

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
201	NOT USED		
202	TOP OF 0" CURB	1900813.84	6270544.90
203	NOT USED		
204	BACK OF SIDEWALK	1900821.31	6270537.42
205	BACK OF SIDEWALK	1900818.49	6270534.60
206	TOP OF 0" CURB	1900809.96	6270543.12
207	NOT USED		
208	TOP OF 6" CURB - PCR	1900807.05	6270540.72
209	TOP OF 6" CURB	1900817.66	6270545.53
210	EDGE OF PVMT - MATCH EXISTING	1900796.68	6270557.86
211	EDGE OF PVMT - MATCH EXISTING	1900800.73	6270560.28
212	EDGE OF PVMT - MATCH EXISTING	1900802.49	6270562.87
213	NOT USED		
214	NOT USED		
215	NOT USED		
216	TOP OF 0" CURB	1900791.28	6270562.55
217	BACK OF SIDEWALK	1900783.85	6270569.98
218	BACK OF SIDEWALK	1900781.02	6270567.15
219	TOP OF 0" CURB	1900788.76	6270559.42
220	TOP OF 6" CURB - PCR	1900787.64	6270558.26

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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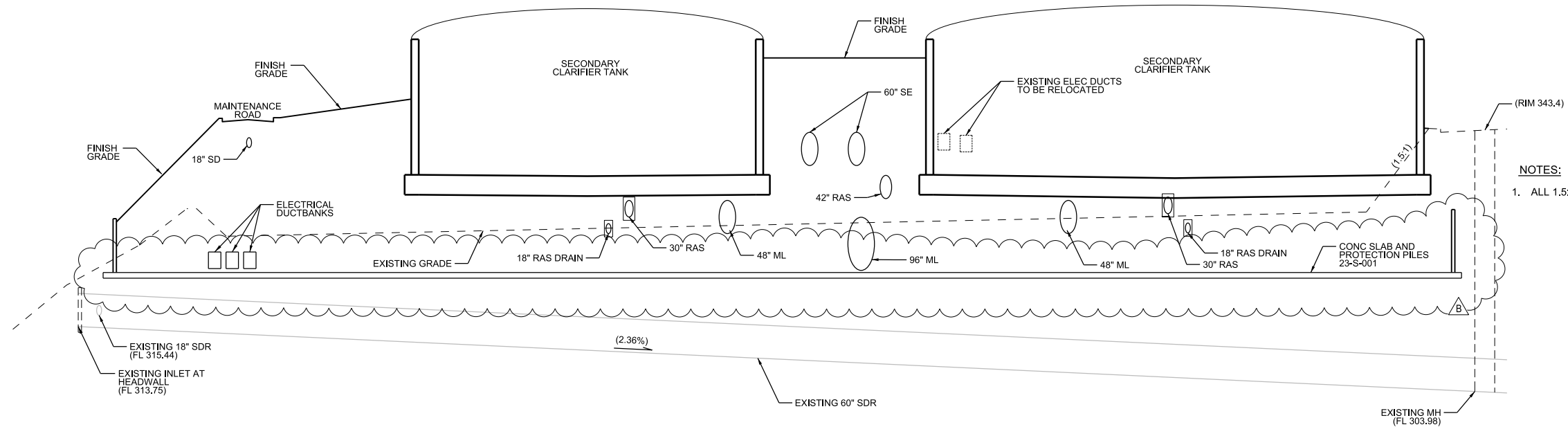
PK2-CG-504

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 2 - NORTH CITY WRP EXPANSION

**CIVIL
 SITE GRADING
 PLAN - DETAILS**

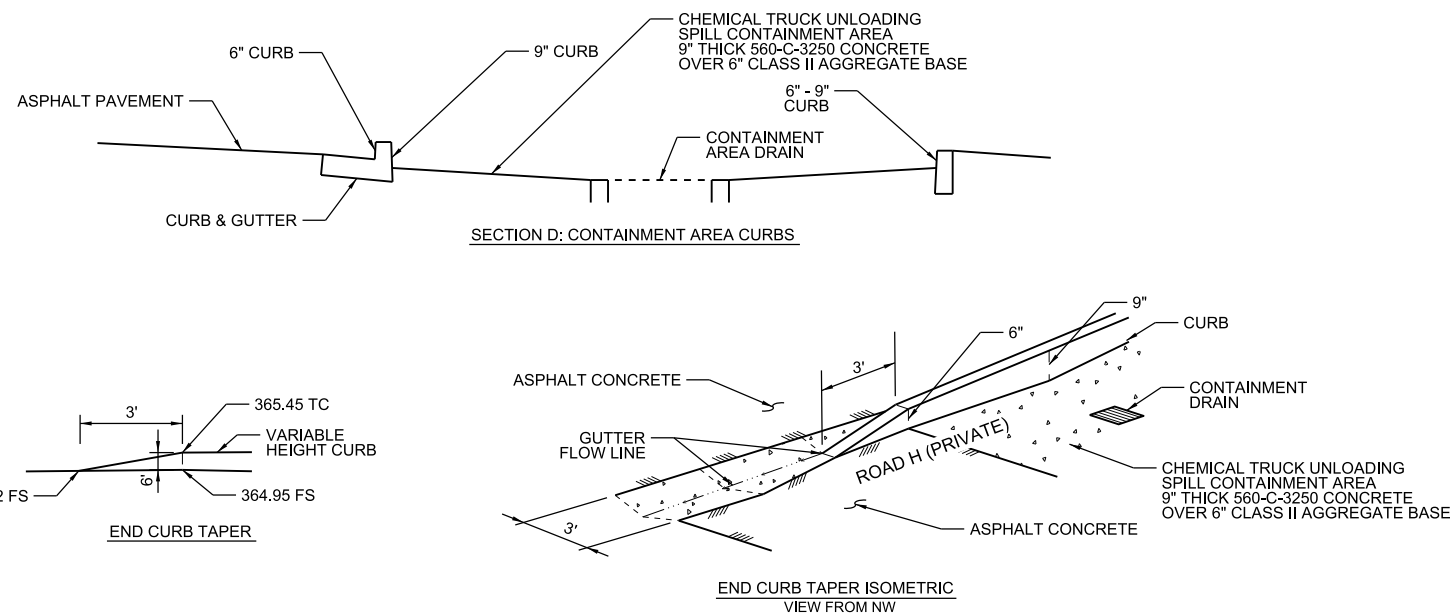
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 88 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Janice</i> FOR CITY ENGINEER	DATE: 12/03/2020 C7/0321	SUBMITTED BY: MONIKA SMOczynski PROJECT MANAGER
PRINT DCE NAME: <i>Janice</i>	RCE#	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum B	CH	<i>Janice</i>
		DATE
		2/3/21
		FIRM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
		40381-2088-D

CONTRACTOR: _____ DATE STARTED: _____
 INSPECTOR: _____ DATE COMPLETED: _____

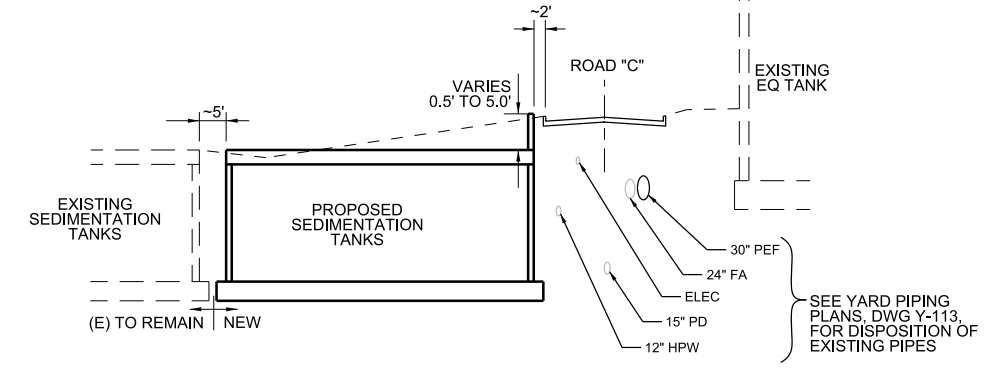


NOTES:
1. ALL 1.5:1 SLOPES ARE TEMPORARY.

C SECTION: CLARIFIER TANK CONSTRUCTION PAD
SCALE H: 1" = 20'
V: 1" = 10'
CG-102
CG-106
CG-111



D CHEMICAL TRUCK UNLOADING SPILL CONTAINMENT AREA - CURB DETAILS
NOT TO SCALE
CG-107



E SECTION: SEDIMENTATION TANK
SCALE H: 1" = 20'
V: 1" = 10'
CG-113

PK2-CG-508

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION		B-16149, S-17012	
CIVIL SITE GRADING PLAN - DETAILS		WBS B-15142	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 92 OF 1169 SHEETS		APPROVED: <i>[Signature]</i> DATE: 12/03/2020 FOR CITY ENGINEER: Andrea Demich RCE# C70321	
SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER		CREATED BY: THIEN-LONG TRAN PROJECT ENGINEER	
DESCRIPTION	BY	APPROVED	DATE
Addendum B	CH	<i>[Signature]</i>	2/3/21
260-1709		CCS27 COORDINATE	
1900-6269		CCS83 COORDINATE	
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	

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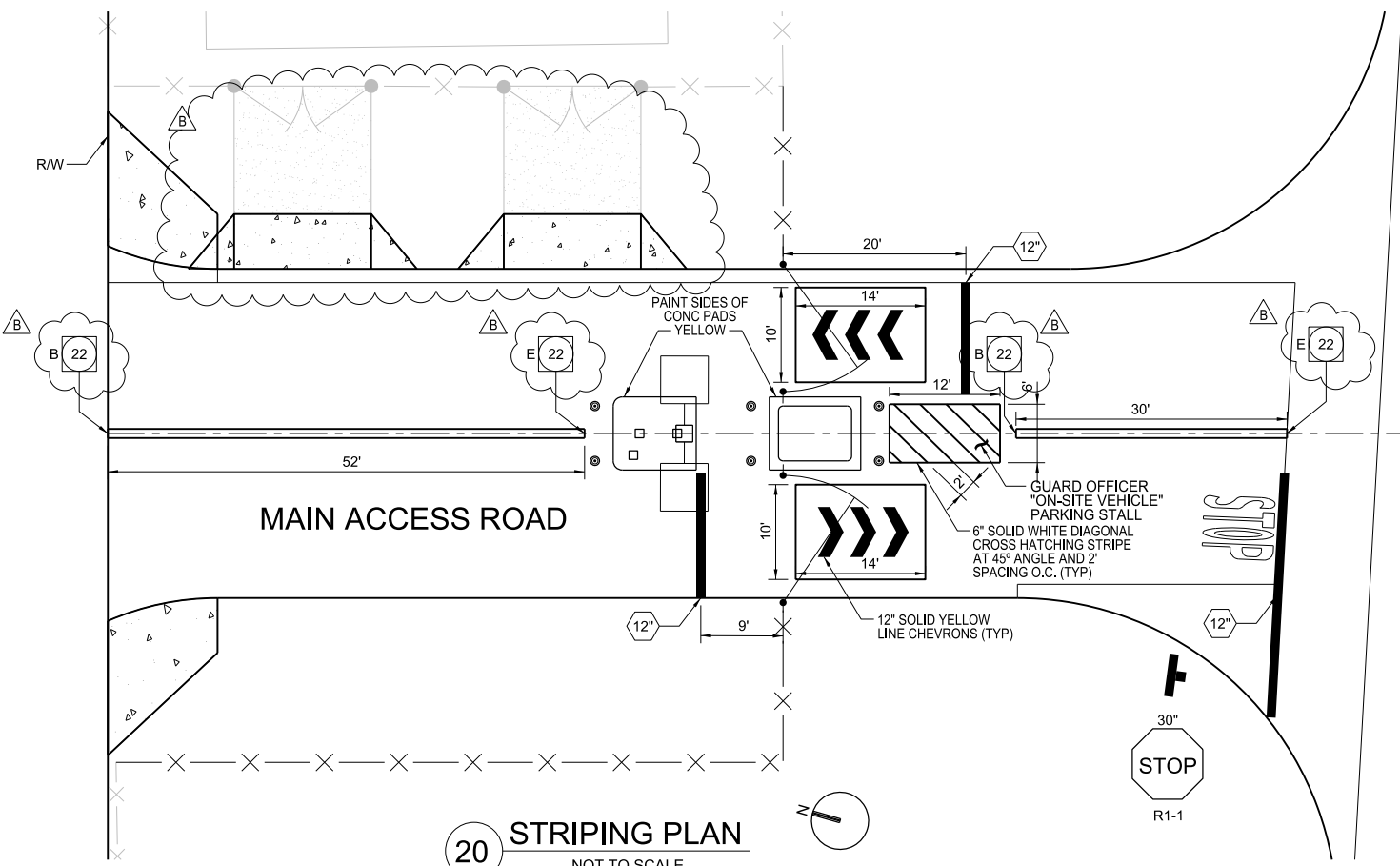
REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
No. 60223
Exp. 6-30-2022
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

WARNING
0 1
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EASTGATE MALL

ROAD A (PRIVATE)



20 STRIPING PLAN
NOT TO SCALE
CG-101

LEGEND:

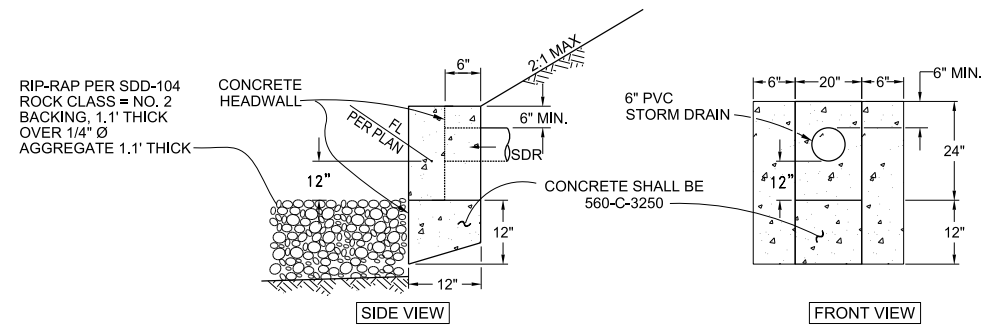
- = SIGN
- 12" = 12" SOLID WHITE LINE (LIMIT LINE) PER CALTRANS STANDARD PLANS. (THERMOPLASTIC)
- B XX = BEGIN DETAIL PER CALTRANS STANDARD PLANS.
- E XX = END DETAIL PER CALTRANS STANDARD PLANS.

STRIPING AND SIGNING GENERAL NOTES

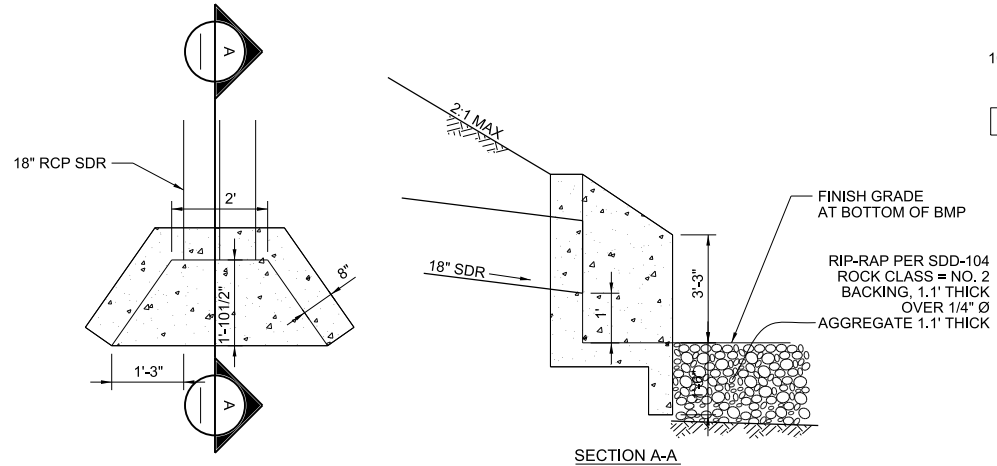
1. INSTALLATION OF ALL STRIPING, SIGNS AND PAVEMENT MARKERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ALL STRIPING AND SIGNING SHALL CONFORM TO THE MOST RECENTLY ADOPTED EDITION OF THE FOLLOWING MANUALS:

DESCRIPTION	EDITION	DOCUMENT NO.
STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "GREEN BOOK")	2018	PWPI070116-01
CITY OF SAN DIEGO STANDARD DRAWINGS	2018	PWPI070116-03
CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL CONTROL DEVICES (CA MUTCD)	2014	PWPI092816-07
3. ALL SIGNING AND STRIPING IS SUBJECT TO THE APPROVAL OF THE CITY ENGINEER PRIOR TO INSTALLATION AND/OR REMOVAL.
4. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING STRIPING, PAVEMENT MARKINGS AND LEGENDS BY SANDBLASTING AND/OR GRINDING WITH THE SEAL. ANY DEBRIS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
5. SIGN POSTS SHALL BE INSTALLED WITH SQUARE PERFORATED STEEL TUBING WITH BREAKAWAY BASE PER CITY OF SAN DIEGO STANDARD DRAWINGS M-45.
6. ALL RAISED MEDIAN NOSES SHALL BE PAINTED YELLOW.
7. ALL SIGNS SHOWN ON THE STRIPING PLANS SHALL BE NEW SIGNS PROVIDED AND INSTALLED BY THE CONTRACTOR, EXCEPT FOR EXISTING SIGNS SPECIALLY INDICATED TO BE RELOCATED OR TO REMAIN.
8. STRIPED CROSSWALKS SHALL HAVE AN INSIDE DIMENSION OF 10 FEET UNLESS INDICATED OTHERWISE.
9. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, ARROWS (EXCEPT WITHIN BIKE LANES) SHALL BE THERMOPLASTIC.
10. THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT (858) 495-4741 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO AND UPON COMPLETION OF STRIPING AND SIGNING.

THIS PLAN SHEET IS ACCURATE FOR STRIPING AND SIGNING WORK ONLY



21 MINOR HEADWALL
NOT TO SCALE
CG-116
CG-502
SW-109



22 MODIFIED WING-TYPE HEADWALL
NOT TO SCALE
SEE SDRSD D-34 FOR ADDITIONAL SPECIFICATIONS
CG-102 SW-101
CG-107 SW-104
CG-502 SW-106

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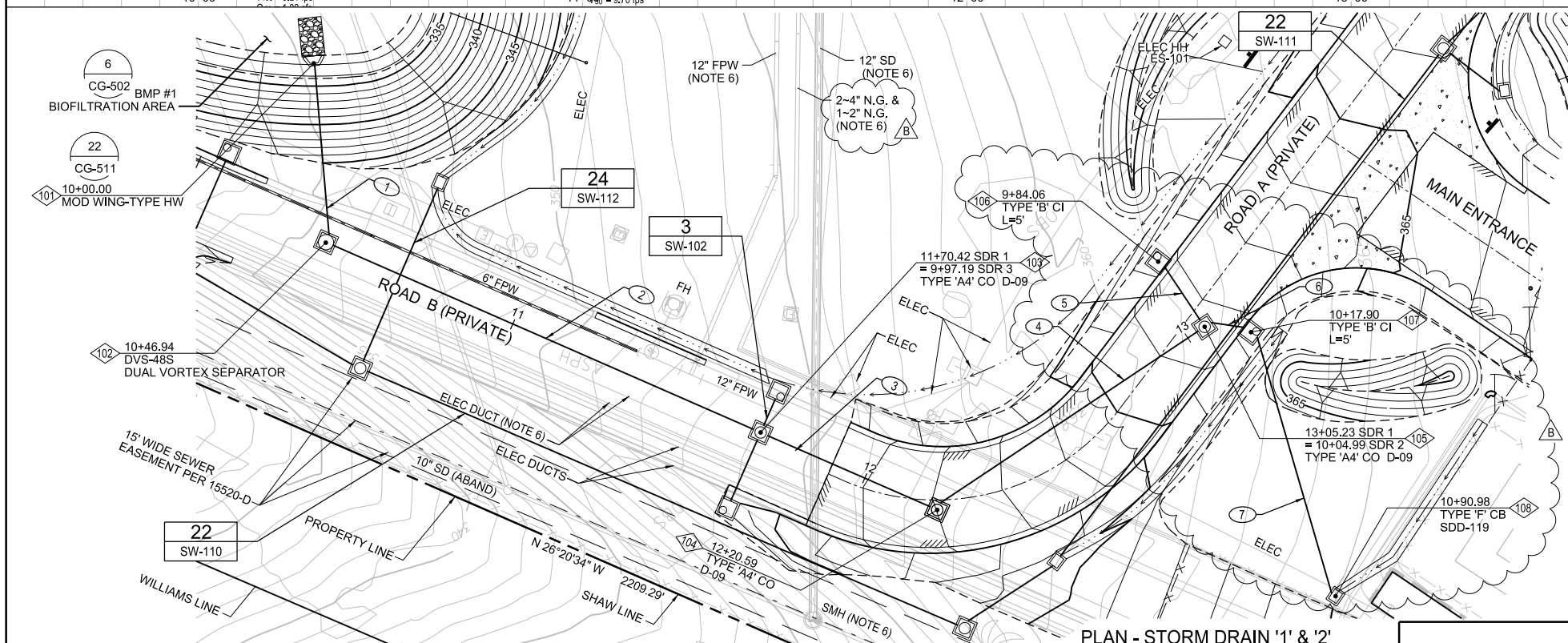
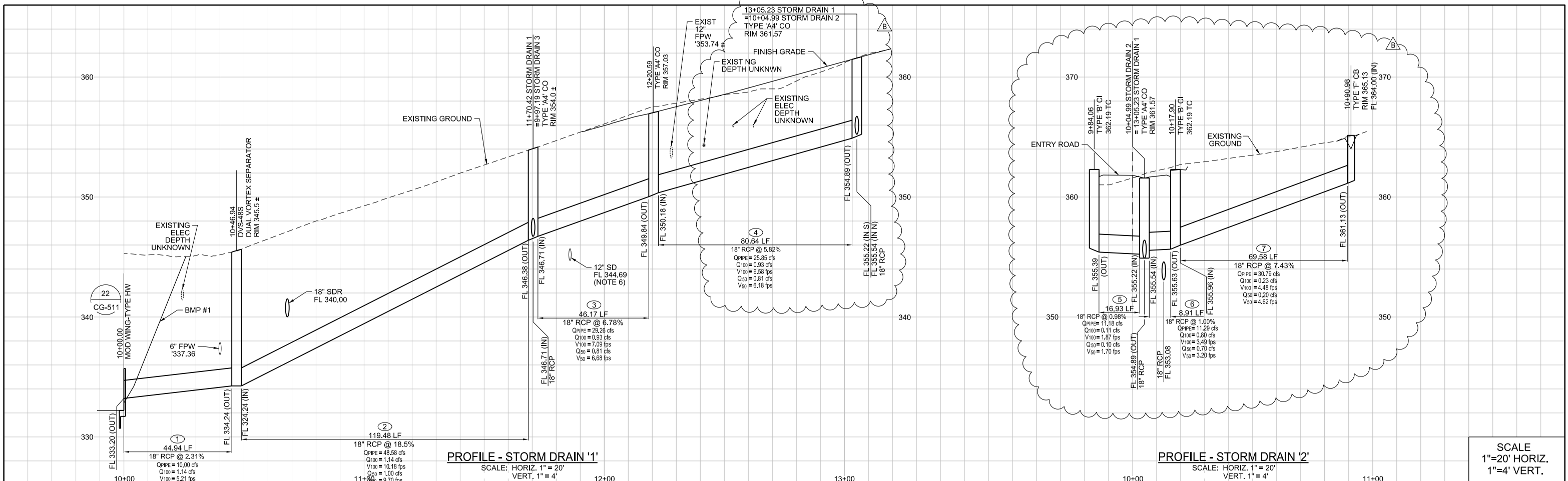
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PK2-CG-511	
NCRWP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION	
CIVIL SITE GRADING PLAN - DETAILS	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 95 OF 1169 SHEETS	B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich DATE: 12/03/2020 RCE#: C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CREATED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY
▲ Addendum B	CH
APPROVED	DATE
<i>[Signature]</i>	2/3/21
FILM	
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED
	40381-2095-D



STORM DRAIN PIPE DATA

NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 35°09'19\"/>			

NO	DESCRIPTION	NORTHING	EASTING
101	WING TYPE HEADWALL	1901424.18	6270558.12
102	DVS-48S	1901461.81	6270585.78
103	TYPE 'A4' CO	1901572.46	6270530.97
104	TYPE 'A4' CO	1901817.43	6270508.74
105	TYPE 'A4' CO	1901625.66	6270424.79
106	TYPE 'B' CI	1901604.90	6270423.16
107	TYPE 'B' CI	1901634.48	6270416.44
108	TYPE 'F' CB	1901701.26	6270443.74

- NOTES:**
- SEE DWGS Y-101 AND Y-102 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
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 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DWGS CG-101 AND CG-102 FOR GRADING PLANS.

WARNING

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CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 103 OF 1169 SHEETS

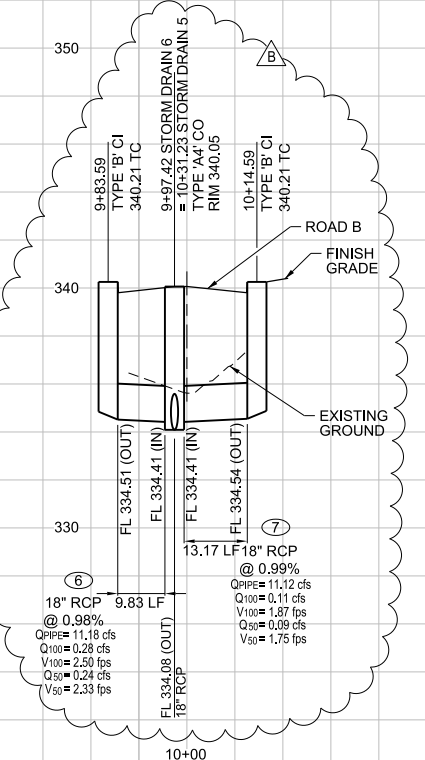
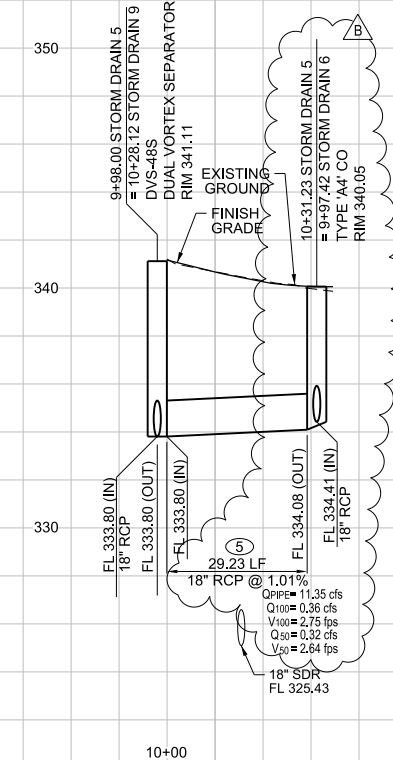
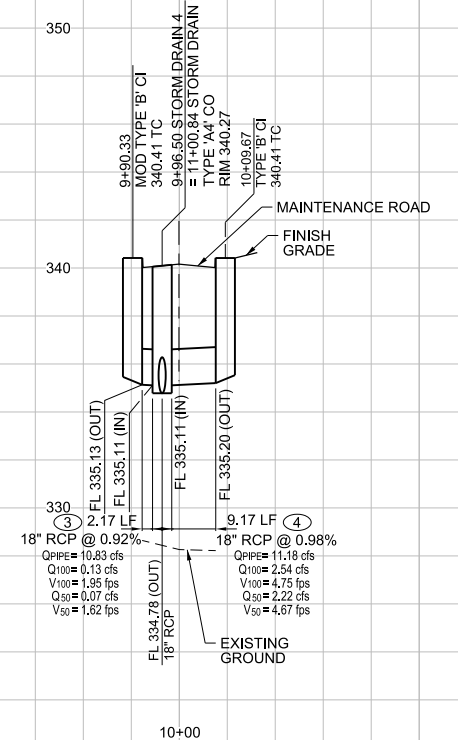
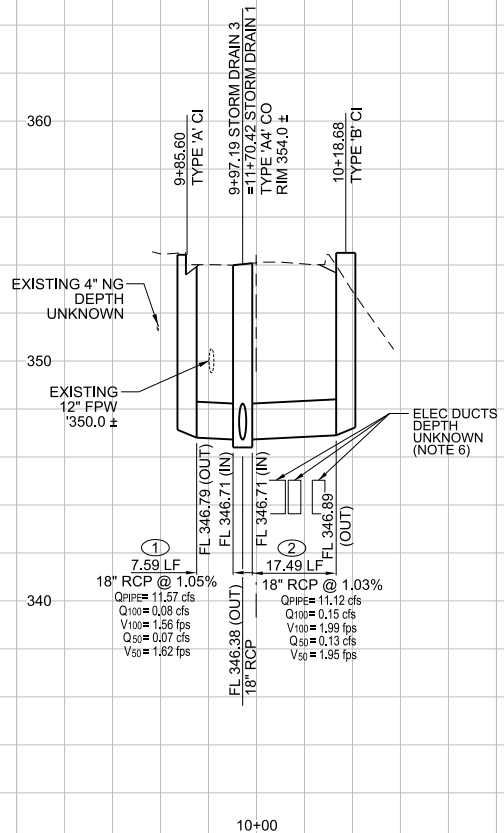
APPROVED: *Janice* DATE: 12/03/2020
FOR CITY ENGINEER: Andrea Demich DATE: 07/03/21

PRINT DCE NAME: RCE#

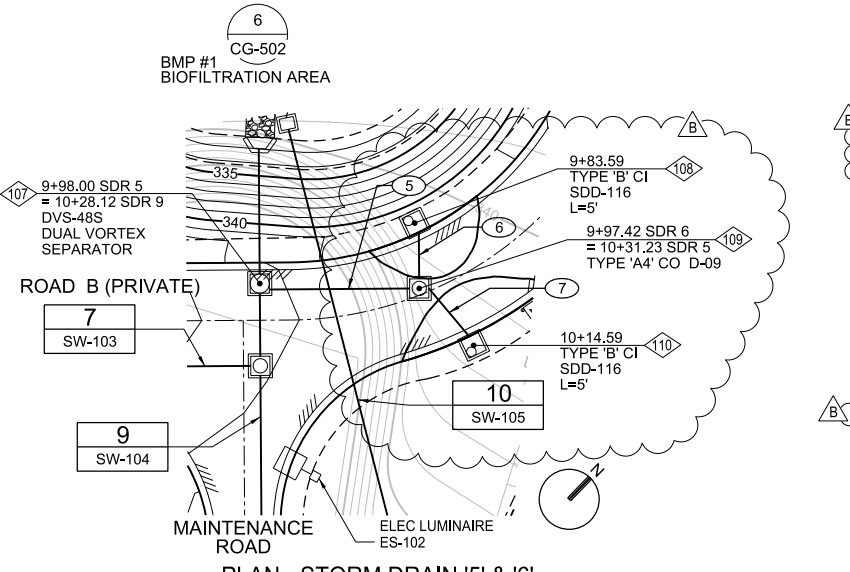
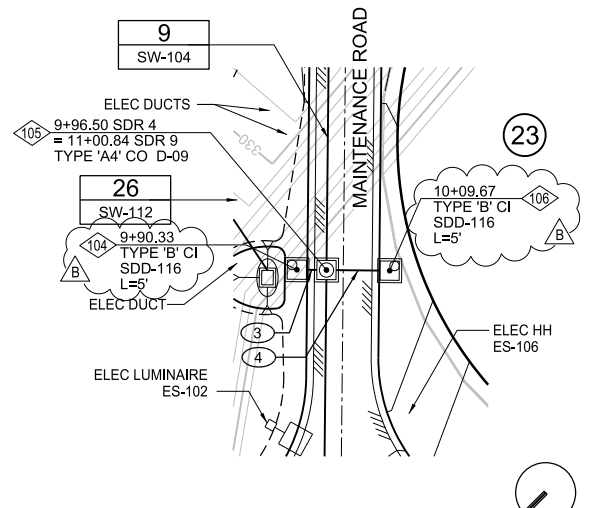
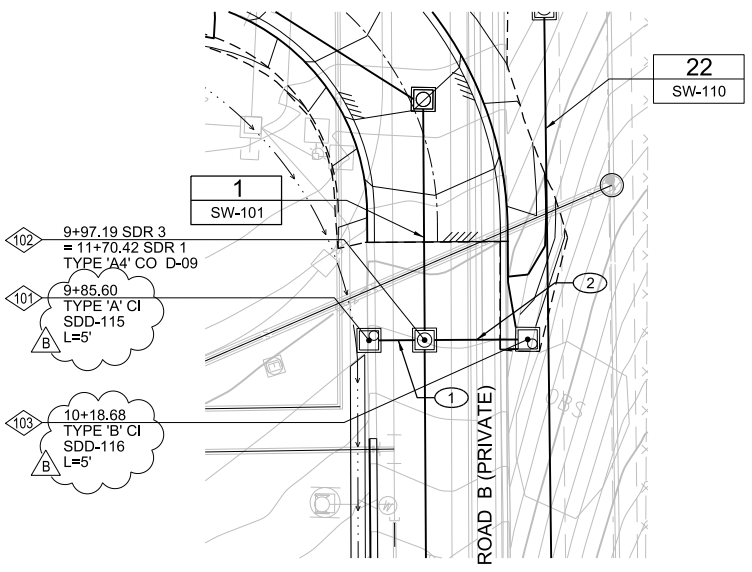
DESCRIPTION	BY	APPROVED	DATE	FIRM
▲ Addendum B	CH	<i>Janice</i>	2/3/21	

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

- NOTES:**
- SEE DWGS Y-101, Y-102 AND Y-106 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
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 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DWGS CG-101, CG-102 AND CG-106 FOR GRADING PLANS.



SCALE
1"=20' HORIZ.
1"=4' VERT.



NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 63°38'54" E		7.59'	18" RCP - D-1350
2	N 63°38'54" E		17.49'	" " "
3	N 45°35'10" E		2.17'	" " "
4	N 45°35'10" E		9.37'	" " "
5	N 45°35'10" E		29.23'	" " "
6	N 44°24'50" W		9.83'	" " "
7	N 84°02'46" W		13.17'	" " "

NO	DESCRIPTION	NORTHING	EASTING
101	TYPE 'A' CI	1901567.32	6270520.59
102	TYPE 'A4' CO	1901572.46	6270530.97
103	TYPE 'B' CI	1901582.01	6270550.22
104	TYPE 'B' CI	1901286.62	6270640.49
105	TYPE 'A4' CO	1901282.30	6270636.08
106	TYPE 'B' CI	1901273.08	6270626.68
107	DVS-48S	1901334.24	6270585.20
108	TYPE 'B' CI	1901364.99	6270601.69
109	TYPE 'A4' CO	1901356.60	6270609.81
110	TYPE 'B' CI	1901356.70	6270624.17

PK2-SW-102

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CIVIL STORM DRAINAGE PLAN AND PROFILE

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 104 OF 1169 SHEETS

APPROVED: [Signature] DATE: 12/03/2020
FOR CITY ENGINEER: Andrea Demich DATE: 07/03/21

PRINT DCE NAME: [Signature] RCE#

DESCRIPTION	BY	APPROVED	DATE	FIRM
Addendum B	CH	[Signature]	2/3/21	

DATE STARTED: DATE COMPLETED:

CONTRACTOR: INSPECTOR:

MONIKA SMOczynski
PROJECT MANAGER

THIEN-LONG TRAN
PROJECT ENGINEER

260-1709
CCS27 COORDINATE

1900-6269
CCS83 COORDINATE

40381-2104-D

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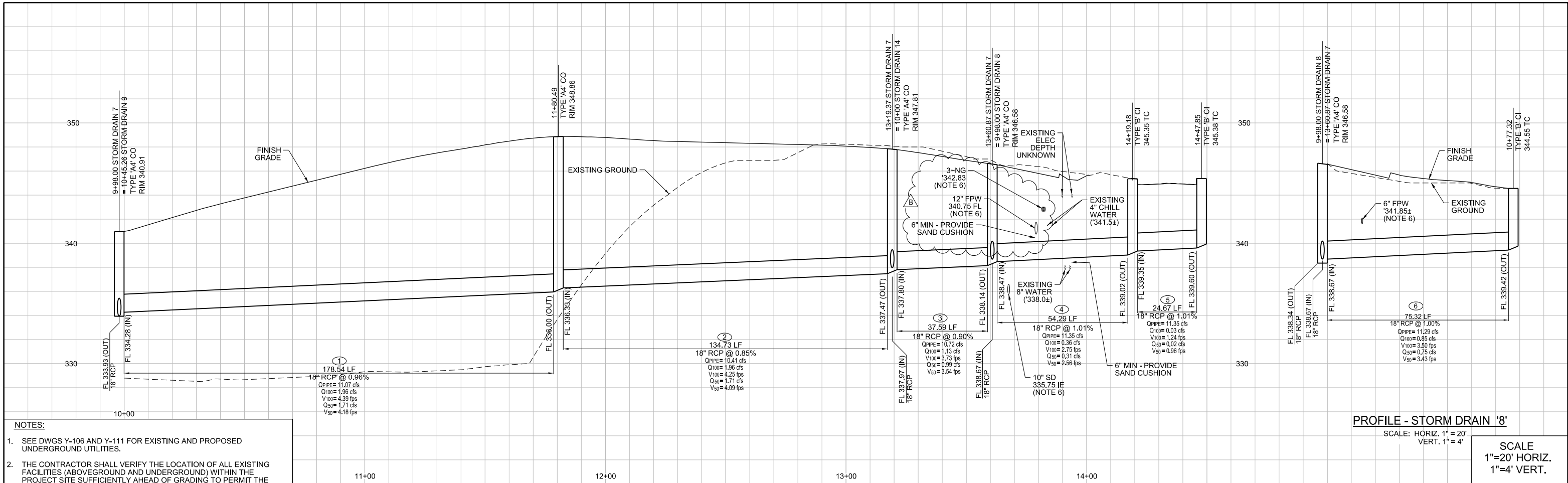
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REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
No. 60223
Exp. 6/30/2022
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

Scale In Feet
0 20 40 60



- NOTES:**
- SEE DWGS Y-106 AND Y-111 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
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 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DWGS CG-106 AND CG-111 FOR GRADING PLANS.

PROFILE - STORM DRAIN '7'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

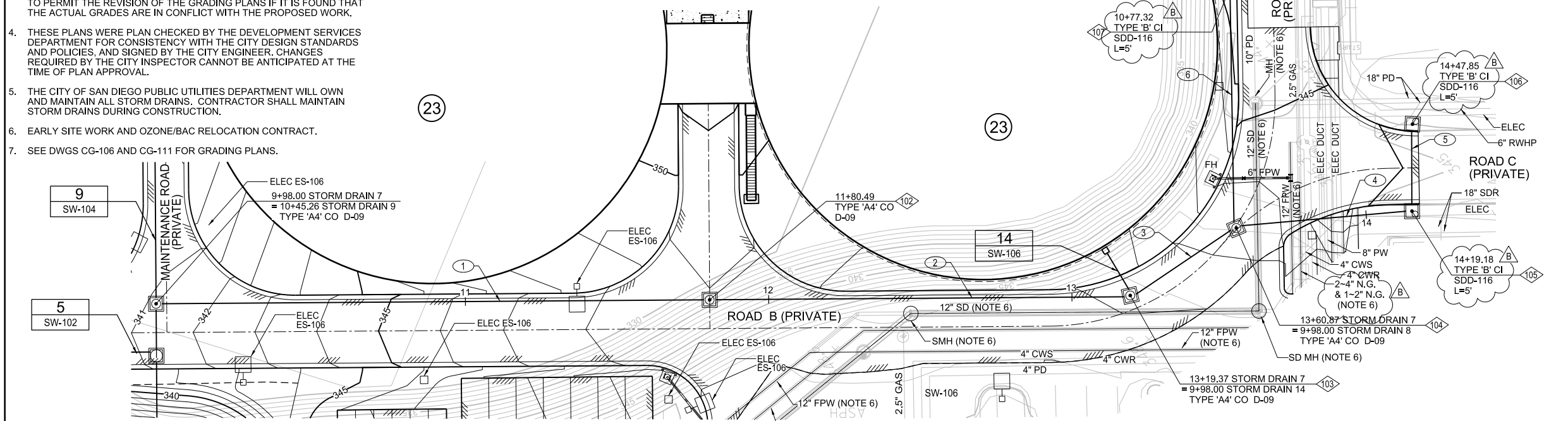
PROFILE - STORM DRAIN '8'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

STORM DRAIN PIPE DATA

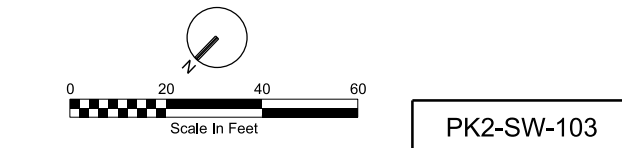
NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 45°35'10" E	---	178.54'	18" RCP - D-1350
2	N 45°35'10" E	---	134.73'	" " "
3	N 11°59'30" E	---	37.60'	" " "
4	N 40°57'37" E	---	54.29'	" " "
5	N 44°10'24" W	---	24.67'	" " "
6	N 44°59'17" W	---	75.32'	" " "

COORDINATE TABLE

NO	DESCRIPTION	NORTHING	EASTING
101	NOT USED		
102	TYPE 'A4' CO	1901194.25	6270466.80
103	TYPE 'A4' CO	1901096.90	6270368.03
104	TYPE 'A4' CO	1901056.61	6270358.32
105	TYPE 'B' CI	1901010.77	6270322.11
106	TYPE 'B' CI	1900993.51	6270338.88
107	TYPE 'B' CI	1900999.55	6270413.23



PLAN - STORM DRAIN '7' & '8'
SCALE: 1" = 20'



PK2-SW-103

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL STORM DRAINAGE PLAN AND PROFILE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 105 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C7/0321	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER
DESIGNER: <i>[Signature]</i> PROJECT ENGINEER	DATE: 2/3/21	PROJECT NO: THIEN-LONG TRAN
DESCRIPTION: Addendum B	BY: CH	PROJECT ENGINEER
APPROVED: <i>[Signature]</i>	DATE: 2/3/21	260-1709
FILM		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-2105-D
INSPECTOR	DATE COMPLETED	

WARNING
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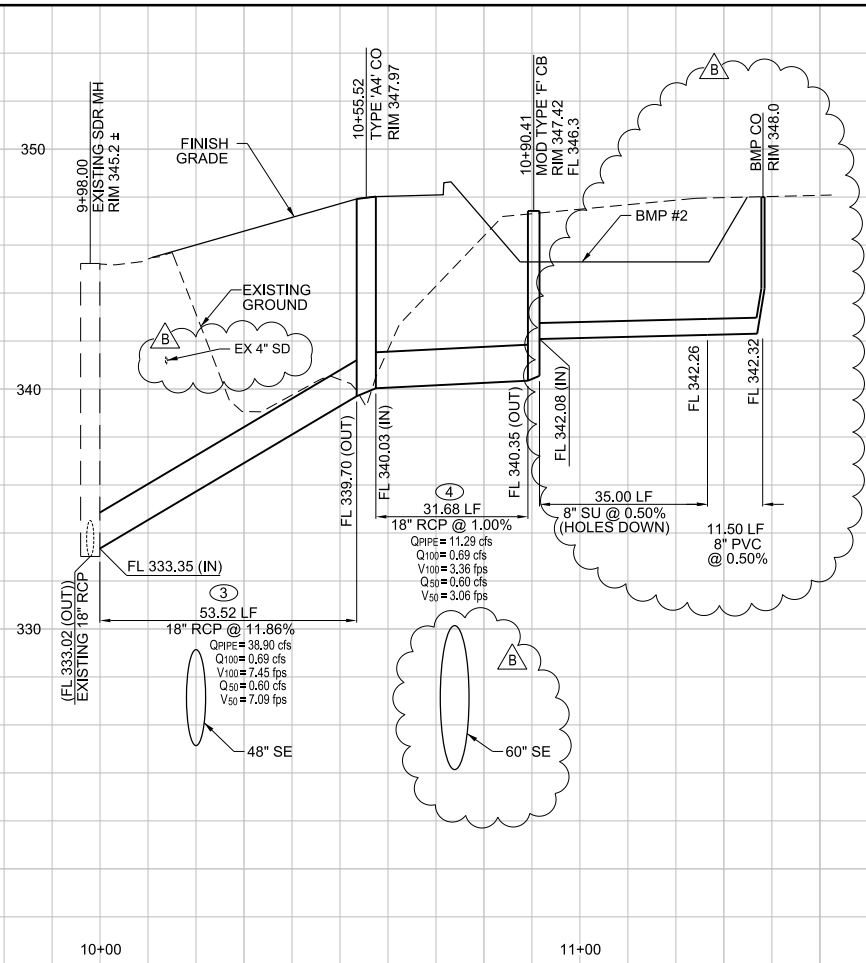
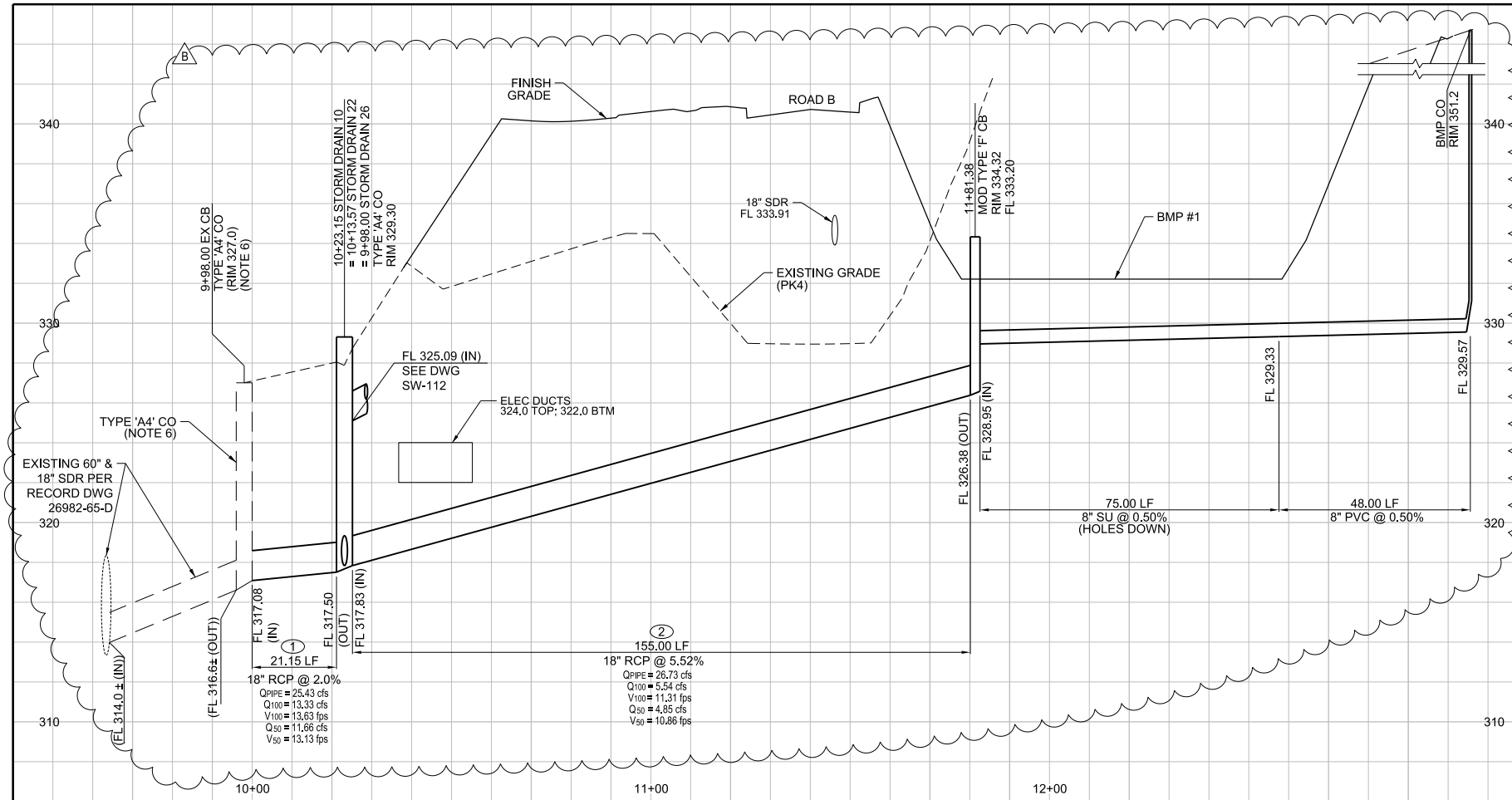
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REGISTERED PROFESSIONAL ENGINEER
KETH W. HANSEN
NO. 60223
DATE: 08-19-2002
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021



- NOTES:**
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 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DWGS CG-102, CG-106 AND CG-107 FOR GRADING PLANS.

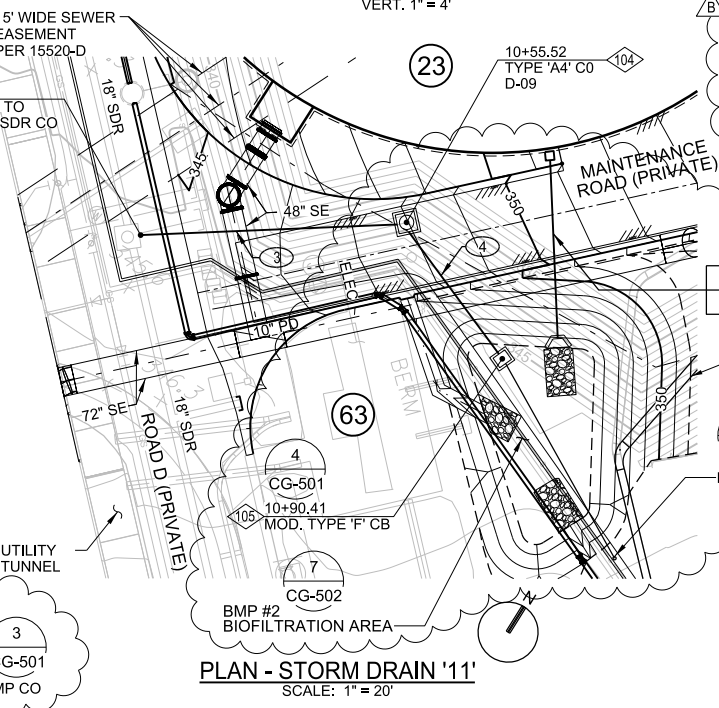
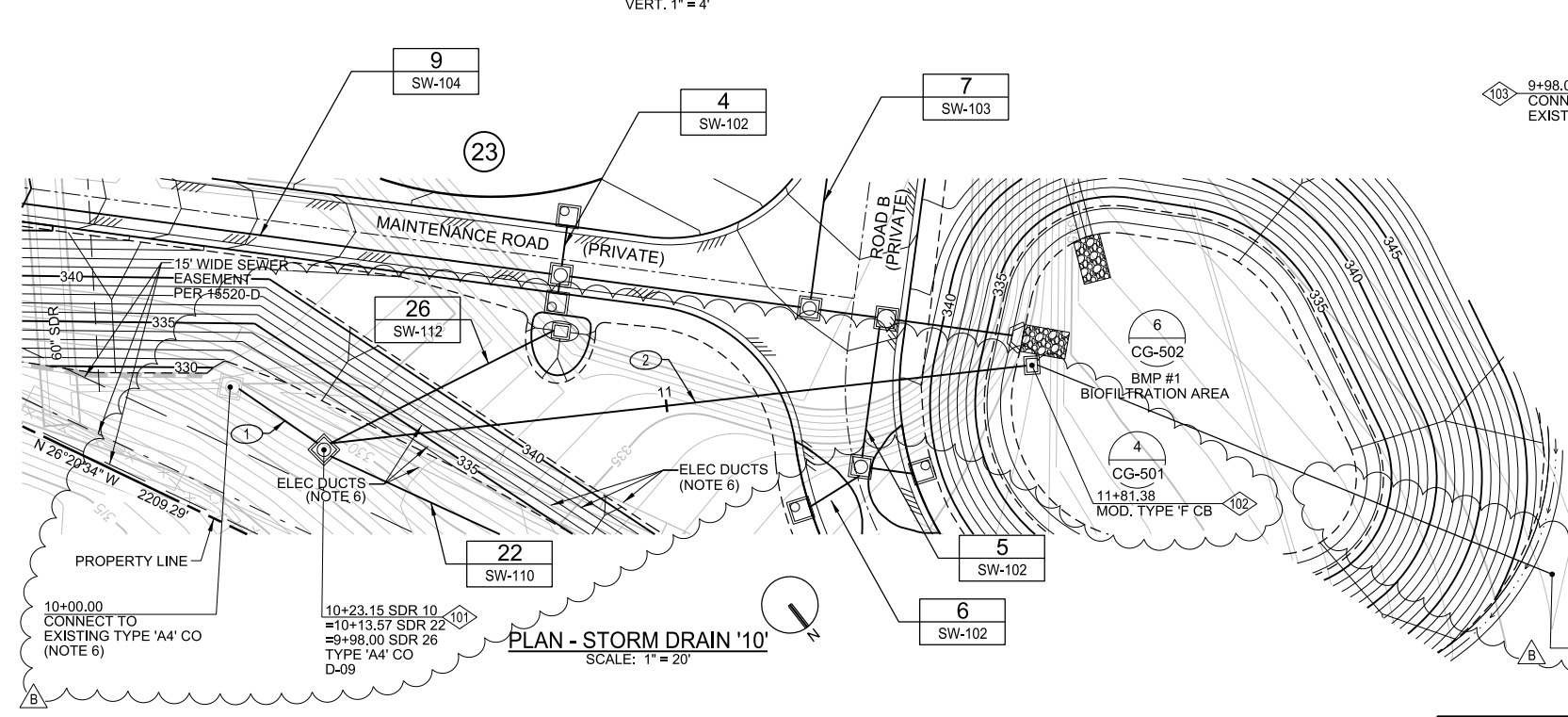
SCALE
1"=20' HORIZ.
1"=4' VERT.

PROFILE - STORM DRAIN '10'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

PROFILE - STORM DRAIN '11'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

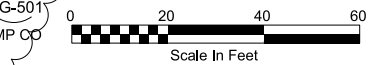
STORM DRAIN PIPE DATA				
NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 17°16'56"W	---	21.15'	18" RCP - D-1350
2	N 58°21'48"W	---	155.00'	18" RCP - D-1450
3	N 55°37'42" E	---	53.52'	18" RCP - D-1350
4	N 68°26'02" W	---	31.68'	"

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	TYPE 'A4' CO	1901280.50	6270701.14
102	TYPE 'F' CB	1901366.55	6270569.94
103	NOT USED		
104	TYPE 'A4' CO	1900866.47	6270608.78
105	TYPE 'F' CB	1900852.93	6270640.75



PLAN - STORM DRAIN '10'
SCALE: 1" = 20'

PLAN - STORM DRAIN '11'
SCALE: 1" = 20'



PK2-SW-105

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CIVIL STORM DRAINAGE PLAN AND PROFILE

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 107 OF 1169 SHEETS

APPROVED: *Janice* DATE: 12/03/2020
FOR CITY ENGINEER: Andrea Demich DATE: 07/03/21
PRINT DCE NAME: RCE#

DESIGNED BY: *Janice* APPROVED: *Janice* DATE: 2/3/21
DESCRIPTION: Addendum B BY: CH

PROJECT MANAGER: MONIKA SMOCZYNSKI
PROJECT ENGINEER: THIEN-LONG TRAN
260-1709
1900-6269
CCS27 COORDINATE
CCS83 COORDINATE

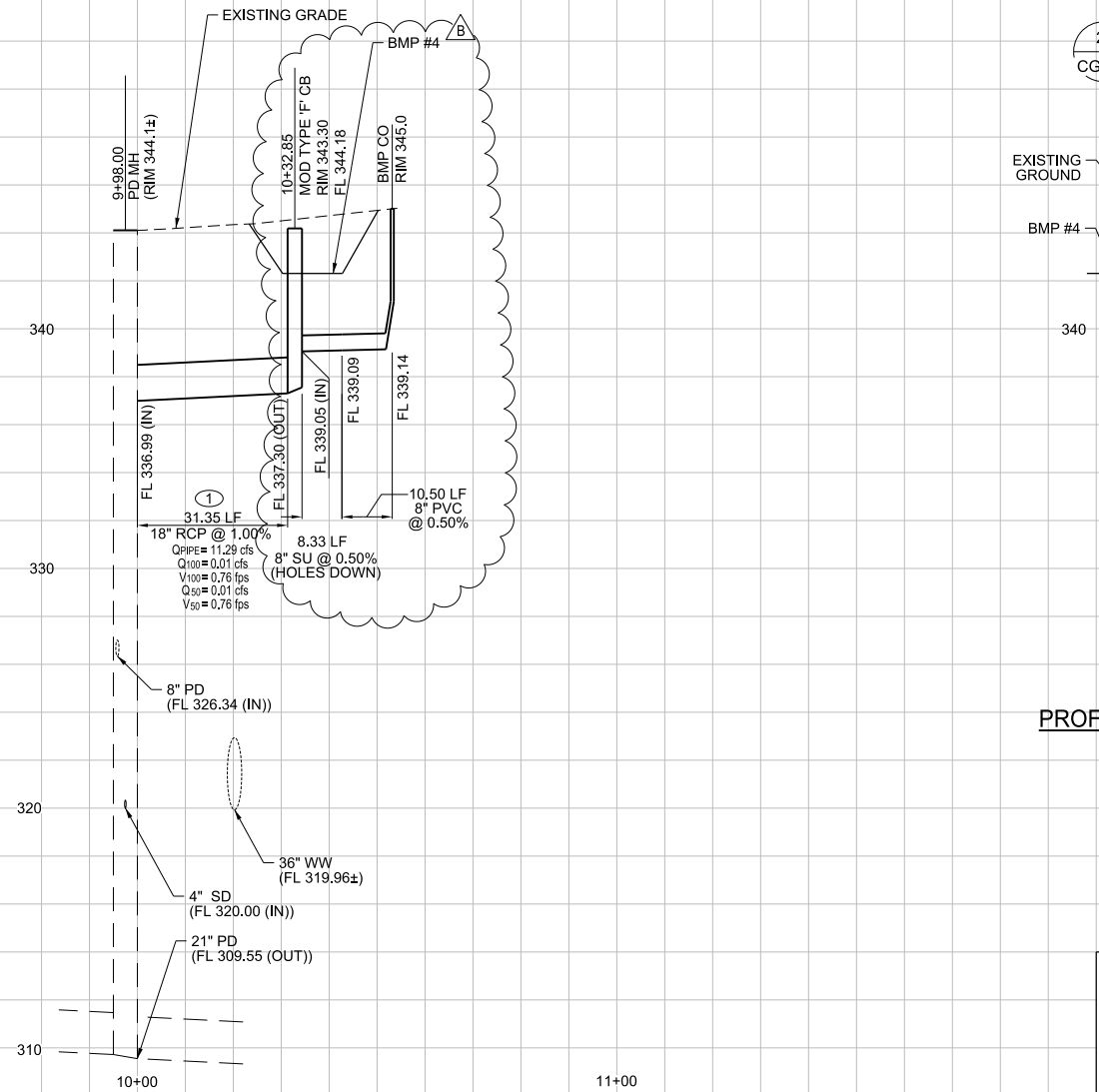
DATE STARTED: DATE COMPLETED: 40381-2107-D

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

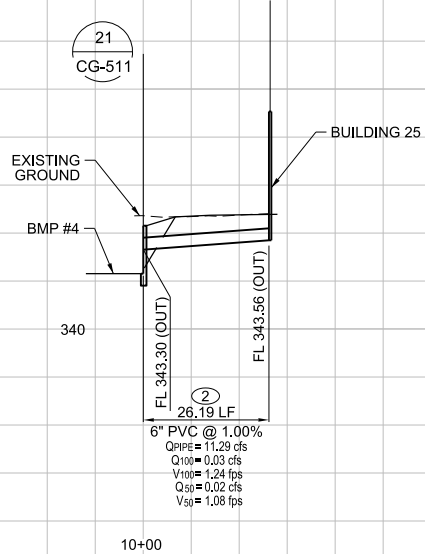
CONSULTANT
O'Day
CONSULTANTS
2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
760-931-8680
Fax: 760-931-8680
O'DayConsultants.com

Civil Engineering
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REGISTERED PROFESSIONAL ENGINEER
KETH W. HANSEN
NO. 60223
DATE 6-30-2022
CIVIL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 01/27/2021

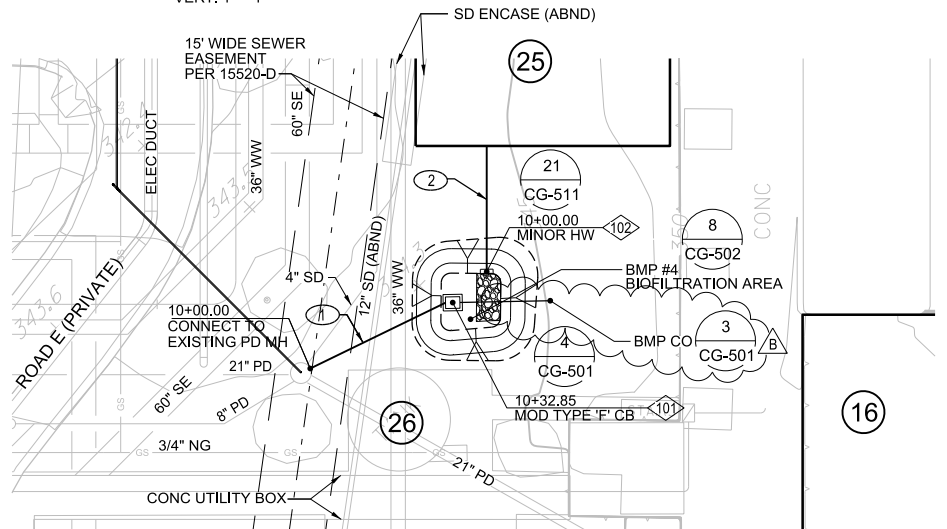


PROFILE - STORM DRAIN '20'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'



PROFILE - STORM DRAIN '21'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

SCALE
1"=20' HORIZ.
1"=4' VERT.



PLAN - STORM DRAIN '20' & '21'
SCALE: 1" = 20'

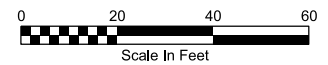
NOTES:

- SEE DWG Y-116 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
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- THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
- SEE DWG CG-116 FOR GRADING PLANS.

STORM DRAIN PIPE DATA

NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 70°55'39" W		31.35'	18" RCP - D-1350
2	N 44°59'56" E		26.19'	6" PVC SDR

NO	DESCRIPTION	NORTHING	EASTING
101	MOD TYPE 'F' CB	1900522.69	6270364.87
102	WING-TYPE HEADWALL	1900522.25	6270374.45



PK2-SW-109

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
**CIVIL
STORM DRAINAGE
PLAN AND PROFILE**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 111 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER <i>Andrea Demich</i> DATE 12/03/2020 C/20321	PROJECT MANAGER MONIKA SMOCZYNSKI	
PRINT DCE NAME <i>Andrea Demich</i>	RCE#	THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION Addendum B	BY CH	DATE 2/3/21
APPROVED <i>Andrea Demich</i>	FILM	260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-2111-D
INSPECTOR	DATE COMPLETED	

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O'Day CONSULTANTS

2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
760-931-8680
O'DayConsultants.com

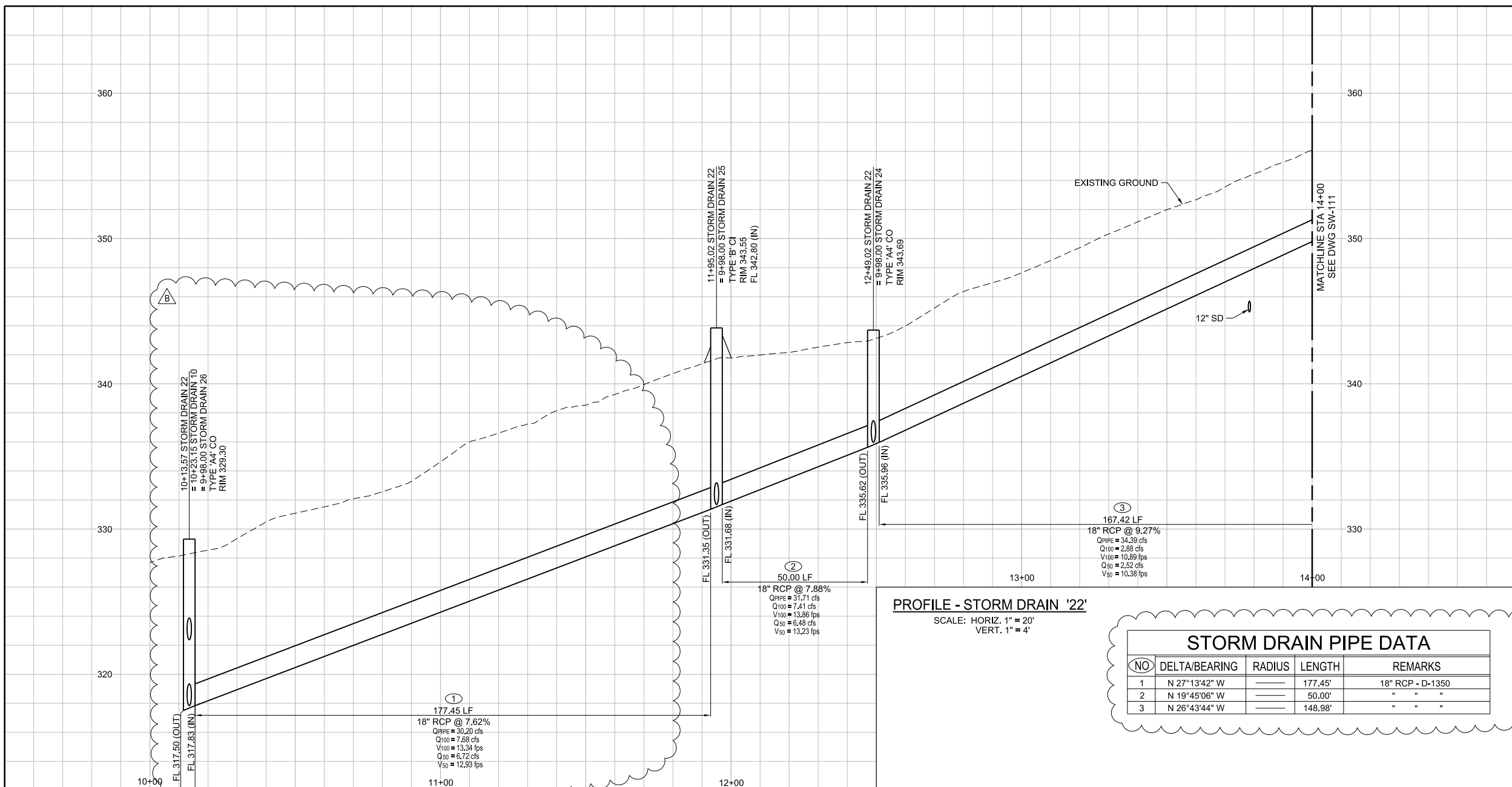
Civil Engineering
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Surveying

REGISTERED PROFESSIONAL ENGINEER
KETH W. HANSON
NO. 60223
DATE 6-26-2002
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

- NOTES:**
- SEE DWGS Y-106 AND Y-111 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
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 - SEE DWGS CG-106 AND CG-111 FOR GRADING PLANS.

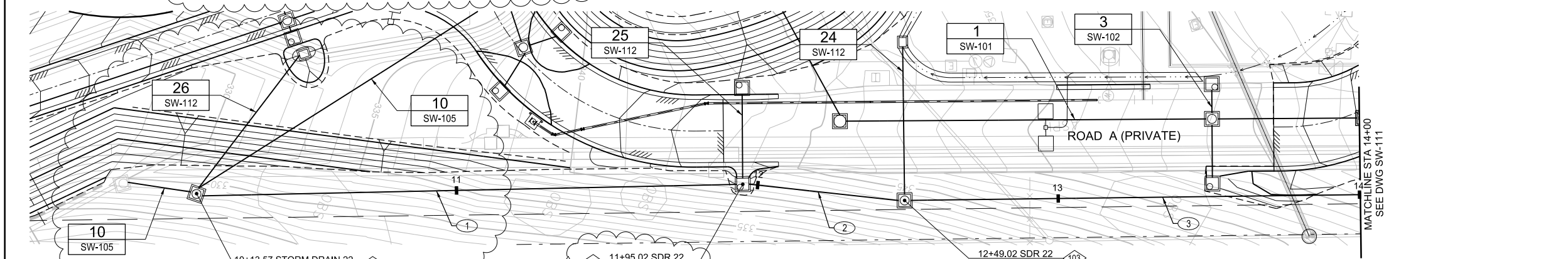


SCALE
1"=20' HORIZ.
1"=4' VERT.

PROFILE - STORM DRAIN '22'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

STORM DRAIN PIPE DATA				
NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 27°13'42" W	---	177.45'	18" RCP - D-1350
2	N 19°45'06" W	---	50.00'	" " "
3	N 26°43'44" W	---	148.98'	" " "

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	TYPE 'A4' CO	1901280.50	6270701.14
102	TYPE 'A4' CO	1901442.03	6270618.76
103	TYPE 'A4' CO	1901492.66	6270600.05



PLAN - STORM DRAIN '22'
SCALE: 1" = 20'

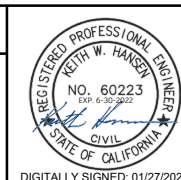
WARNING
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PK2-SW-110

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CIVIL STORM DRAINAGE PLAN AND PROFILE

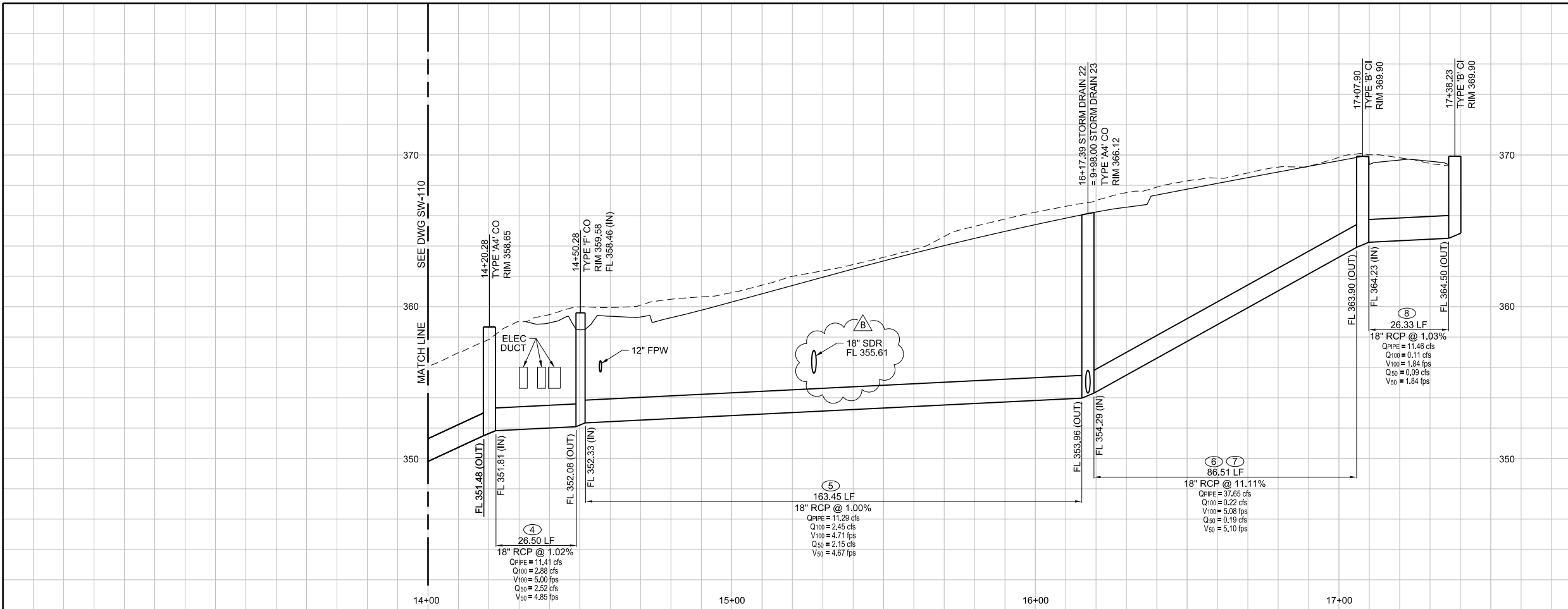
CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 112 OF 1169 SHEETS

APPROVED: [Signature] DATE: 12/03/2020
FOR CITY ENGINEER: Andrea Demich DATE: 12/03/2020
PRINT DCE NAME: [Signature] RCE#

PROJECT MANAGER: MONIKA SMOCZYNSKI
PROJECT ENGINEER: THIEN-LONG TRAN

DESCRIPTION	BY	APPROVED	DATE	FIRM
Addendum B	CH	[Signature]	2/3/21	260-1709
				1900-6269
				40381-2112-D

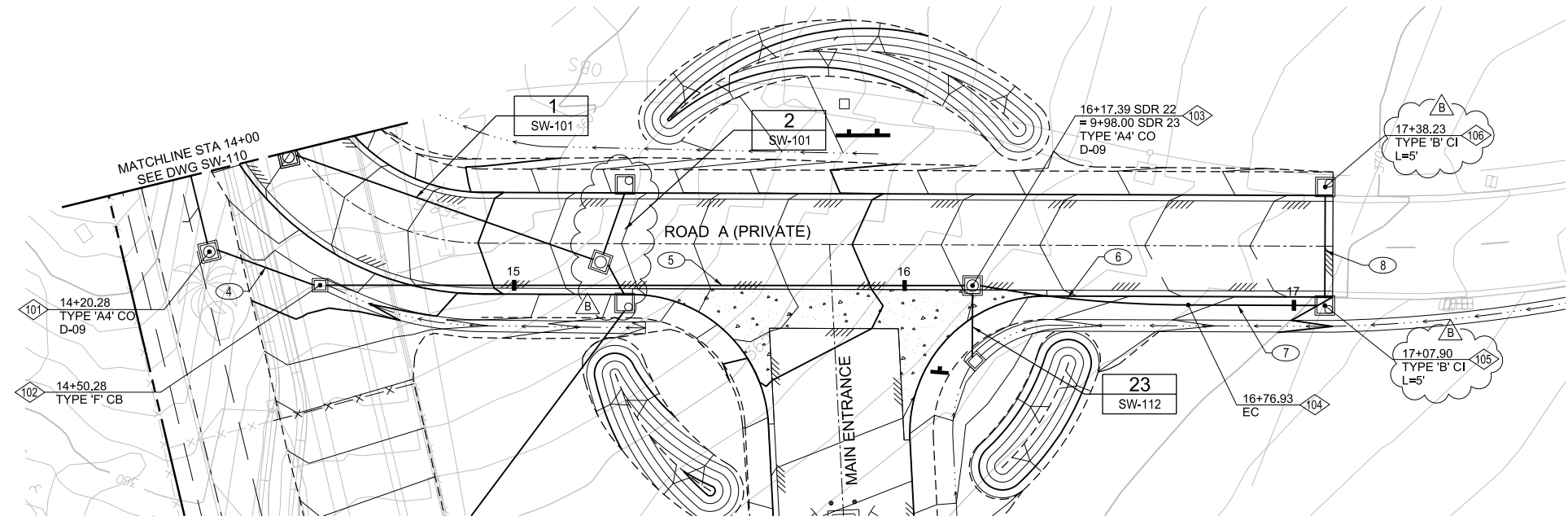
CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____



- NOTES:**
- SEE DWGS Y-106 AND Y-111 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
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 - SEE DWGS CG-106 AND CG-111 FOR GRADING PLANS.

SCALE
1"=20' HORIZ.
1"=4' VERT.

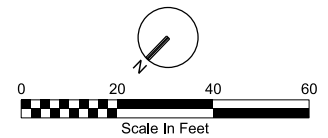
PROFILE - STORM DRAIN '22'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'



PLAN - STORM DRAIN '22'
SCALE: 1" = 20'

NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
4	N 26°43'44" W	—	18.28'	18" RCP - D-1350
5	N 83°02'54" W	—	26.50'	" " "
6	N 77°01'49" E	—	163.61'	" " "
7	Δ = 10°13'33"	300.00'	53.54'	" " "
8	N 77°12'25" E	—	32.97'	" " "
9	N 12°47'35" W	—	26.33'	" " "

NO	DESCRIPTION	NORTHING	EASTING
101	TYPE 'A4' CO	1901645.62	6270523.02
102	TYPE 'F' CB	1901647.60	6270493.46
103	TYPE 'A4' CO	1901610.11	6270330.61
104	END CURVE	1901602.52	6270275.67
105	TYPE 'B' CI	1901594.77	6270241.57
106	TYPE 'B' CI	1901565.19	6270248.28



PK2-SW-111

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 – NORTH CITY WRP EXPANSION
**CIVIL
STORM DRAINAGE
PLAN AND PROFILE**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 113 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142		
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich DATE: 12/03/2020 RCE#: C70321	NO. 60223 ISS. 6-29-2002 REGISTERED PROFESSIONAL ENGINEER CIVIL STATE OF CALIFORNIA DIGITALLY SIGNED: 01/27/2021	SUBMITTED BY: MONIKA SMOczynski PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FIRM
▲ Addendum B	CH	<i>[Signature]</i>	2/3/21	260-1709
				CCS27 COORDINATE
				1900-6269
				CCS83 COORDINATE
				40381-2113-D
CONTRACTOR		DATE STARTED		
INSPECTOR		DATE COMPLETED		

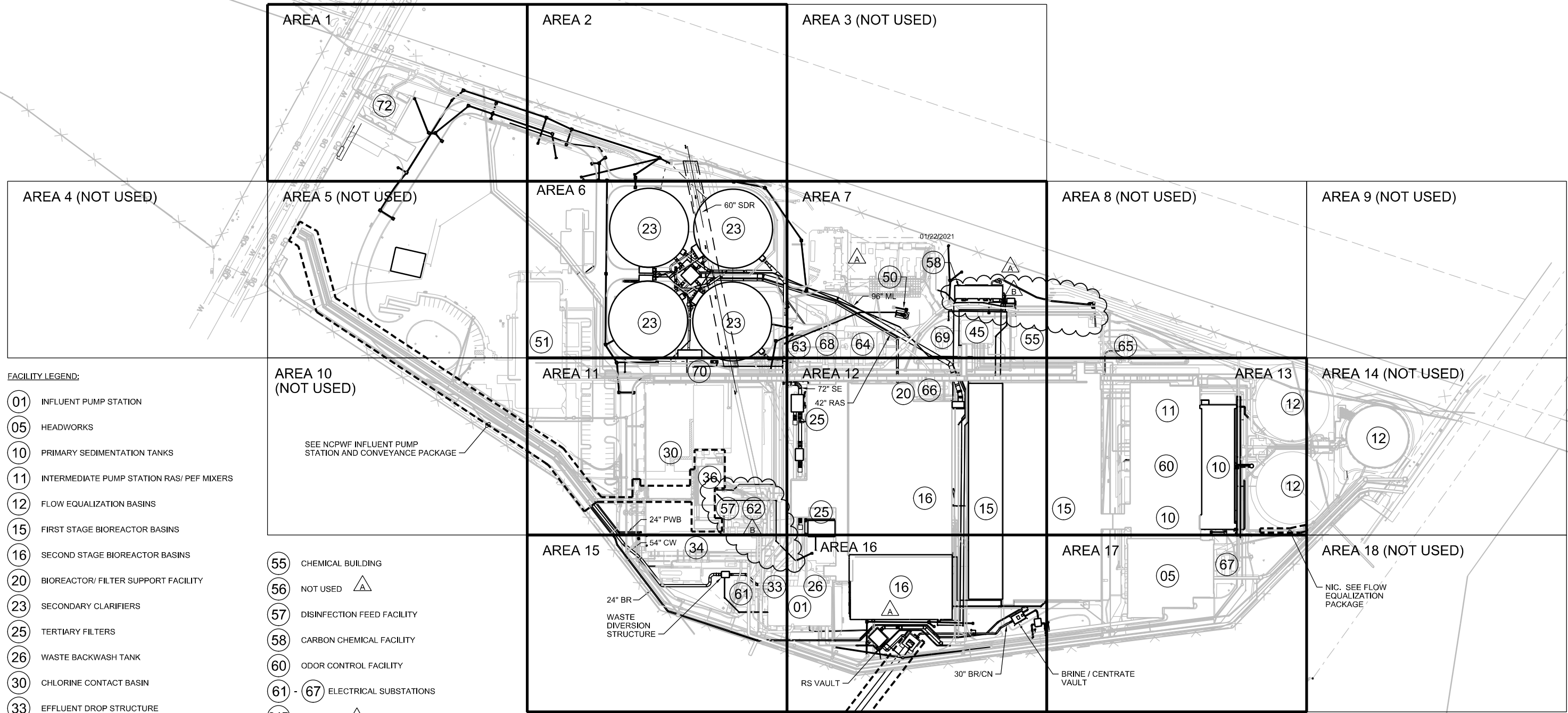
CONSULTANT

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Suite 100
Carlsbad, California 92010
760-931-7700
760-931-8680
Fax: 760-931-8680
OdayConsultants.com

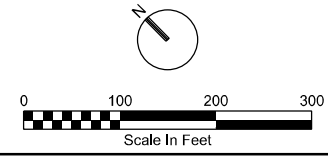
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WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



- FACILITY LEGEND:**
- 01 INFLUENT PUMP STATION
 - 05 HEADWORKS
 - 10 PRIMARY SEDIMENTATION TANKS
 - 11 INTERMEDIATE PUMP STATION RAS/ PEF MIXERS
 - 12 FLOW EQUALIZATION BASINS
 - 15 FIRST STAGE BIOREACTOR BASINS
 - 16 SECOND STAGE BIOREACTOR BASINS
 - 20 BIOREACTOR/ FILTER SUPPORT FACILITY
 - 23 SECONDARY CLARIFIERS
 - 25 TERTIARY FILTERS
 - 26 WASTE BACKWASH TANK
 - 30 CHLORINE CONTACT BASIN
 - 33 EFFLUENT DROP STRUCTURE
 - 34 EFFLUENT PUMP STATION
 - 36 NCPWF INFLUENT PUMP STATION
 - 45 BLENDED SLUDGE PUMP STATION
 - 50 STORMWATER PUMP STATION
 - 51 OPERATIONS BUILDING
 - 55 CHEMICAL BUILDING
 - 56 NOT USED
 - 57 DISINFECTION FEED FACILITY
 - 58 CARBON CHEMICAL FACILITY
 - 60 ODOR CONTROL FACILITY
 - 61 - 67 ELECTRICAL SUBSTATIONS
 - 64B NOT USED
 - 68 ELECTRICAL MAIN PLANT SWITCHGEAR
 - 69 ELECTRICAL SWITCHGEAR SUBSTATION
 - 70 SECONDARY CLARIFIER ELECTRICAL BUILDING
 - 72 ELECTRICAL SWITCHGEAR

NOTE:
FOR FLOW STREAMS NOT IDENTIFIED ON
THE PIPE SCHEDULE G-103 AND G-104,
SEE I&C LEGEND DWG G-017.



PK2-Y-100

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION

**YARD PIPING
OVERALL PLAN**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 155 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: <i>[Signature]</i>	DATE: 12/03/2020 DATE: 07/03/21 RCE#	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>[Signature]</i> 1/15/21
▲ Addendum B	CH	<i>[Signature]</i> 2/3/21
		DATE FILM
		1900-6269 CCS27 COORDINATE CCS83 COORDINATE
DATE STARTED		40381-2155-D
DATE COMPLETED		

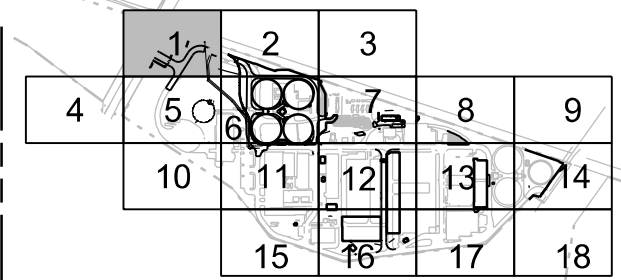
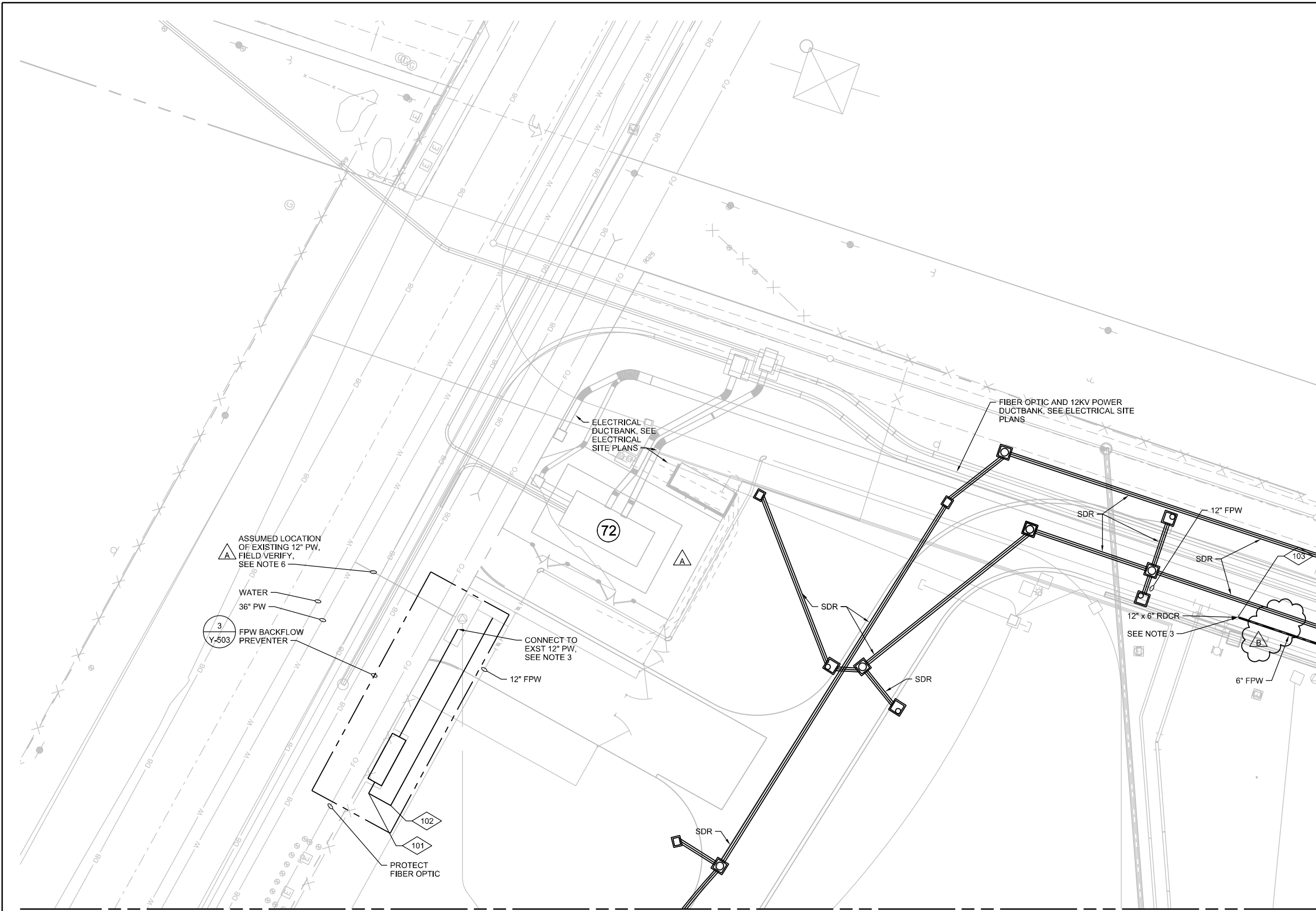
CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
MATTHEW JOHN BALDWIN
CIVIL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 01/27/2021

CONTRACTOR
INSPECTOR

DATE STARTED
DATE COMPLETED

WARNING
0 1
IF THIS BAR DOES
NOT MEASURE 1"
THEN DRAWING IS
NOT TO SCALE



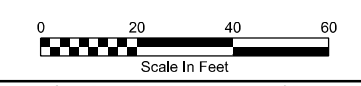
KEYPLAN
NTS

- NOTE:**
- FOR SDR PIPING INFORMATION, SEE DWG CG-101.
 - FOR SITE ELECTRICAL, SEE DWG ES-101.
 - CONNECT TO EXISTING FPW. REMOVE CAP AND PROVIDE RESTRAINED JOINT. FIELD VERIFY LOCATION AND DEPTH.
 - SDR SIZES NOT CALLED OUT FOR CLARITY.
 - SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.
 - CONTRACTOR TO COORDINATE WITH CITY FOR ISOLATION OF 12" FPW LINE.

PIPING COORDINATE TABLE				
POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
101	12" FPW, 90° BEND	*	1901726.89	6270253.91
102	12" FPW, 90° BEND	*	1901717.45	6270256.70
103	6" FPW, CONNECTION TO EXST	334.0±	1901535.87±	6270541.84±

NOTE: * = MINIMUM COVER ▲

MATCH LINE, SEE DWG Y-102



PK2-Y-101

YARD PIPING PLAN - AREA 1

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 156 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: <i>[Signature]</i>	DATE: 12/03/2020 DATE: 1/15/21 DATE: 2/3/21	PROJECT MANAGER: MONIKA SMO CZYNSKI PROJECT ENGINEER: THIEN-LONG TRAN
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>[Signature]</i>
▲ Addendum B	CH	<i>[Signature]</i>
		DATE STARTED
		DATE COMPLETED

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
MATTHEW JOHN BLOWIN
C 7181
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

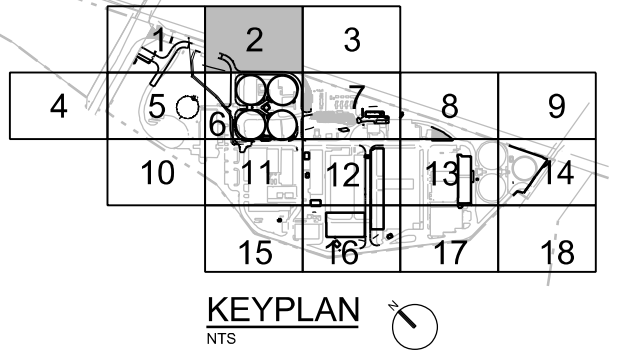
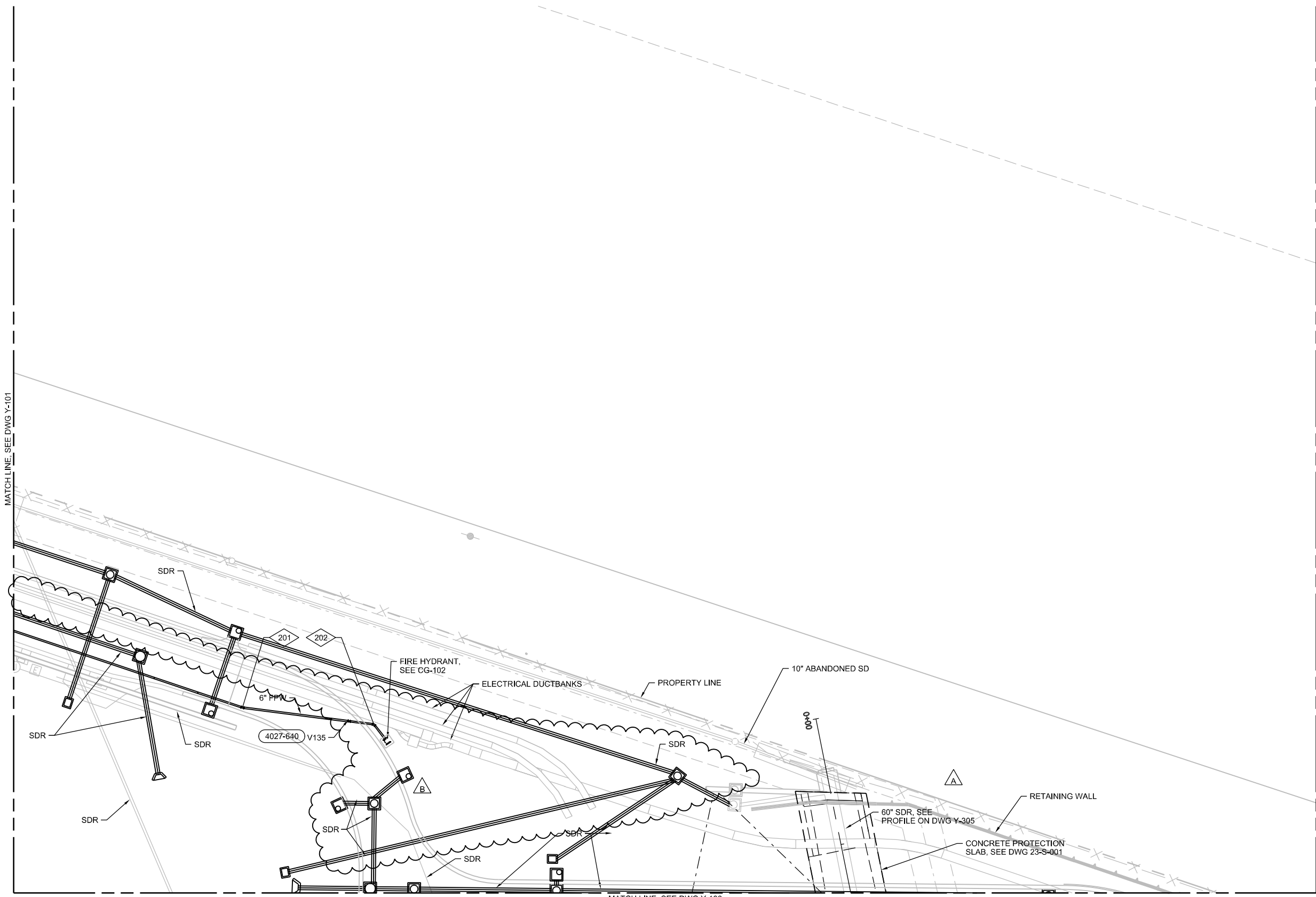
CONTRACTOR _____
INSPECTOR _____

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

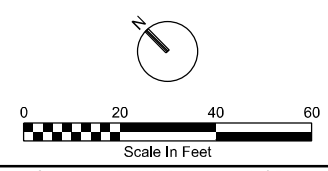
MATCH LINE, SEE DWG Y-101

MATCH LINE, NOT USED



- NOTE:
- FOR SDR PIPING INFORMATION, SEE DWG CG-102.
 - FOR SITE ELECTRICAL, SEE DWG ES-102.
 - SDR SIZES NOT CALLED OUT FOR CLARITY.
 - SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.

POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
201	6" FPW, 11.25° BEND	334.00	1901419.44	6270599.85
202	6" FPW, 45° BEND	334.00	1901378.46	6270631.56



PK2-Y-102

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
YARD PIPING PLAN - AREA 2

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 157 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142	
APPROVED: <i>Matthew John Balwin</i> FOR CITY ENGINEER PRINT DCE NAME: Matthew John Balwin DATE: 12/03/2020 RCE# C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER		PROJECT ENGINEER: THIEN-LONG TRAN
DESCRIPTION	BY	APPROVED	DATE
▲ Addendum A	CH	<i>Matthew John Balwin</i>	1/15/21
▲ Addendum B	CH	<i>Matthew John Balwin</i>	2/3/21
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	

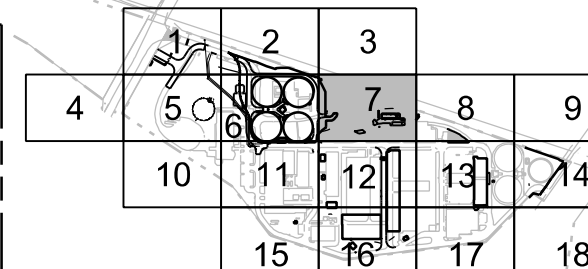
CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
 MATTHEW JOHN BALWIN
 CIVIL
 STATE OF CALIFORNIA
 C 7181
 DIGITALLY SIGNED: 01/27/2021

WARNING

 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MATCH LINE, NOT USED

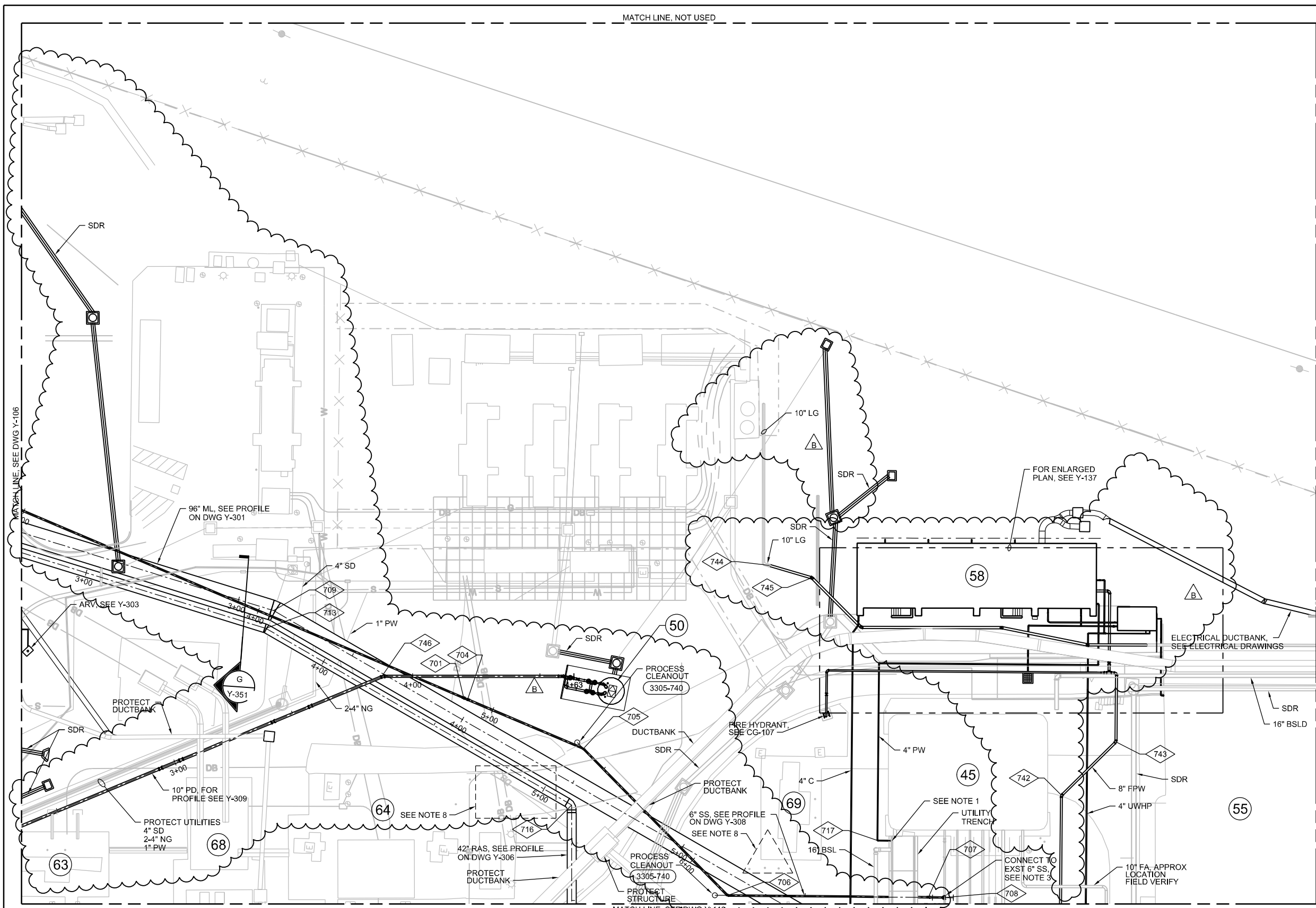


KEYPLAN
NTS

NOTE:

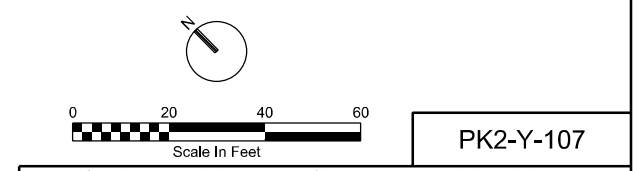
- 4" PW TO BE CONNECTED TO THE 4" PW LOCATED IN THE UTILITY TRENCH.
- FOR SDR PIPING INFORMATION, SEE DWG CG-107.
- INSTALL TEE ONTO EXISTING 6" SS. 3
Y-501
- EXCAVATION SUPPORT PLAN REQUIRED PER SPECIFICATION 31 41 00. FINAL LOCATIONS, EXTENT OF, AND DESIGN OF SHORING TO BE DETERMINED BY THE CONTRACTOR.
- FOR SITE ELECTRICAL, SEE DWG ES-107.
- SDR SIZES NOT CALLED OUT FOR CLARITY.
- SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.
- MAINTAIN OPERATION OF FACILITY DURING CONSTRUCTION FOLLOW APPROVED MOPO PLAN.
- CONTRACTOR SHALL SUPPORT OR TEMPORARILY RELOCATE UTILITIES CROSSING 96-INCH AND 42-INCH LINES DURING TRENCH EXCAVATION. UTILITIES SHALL BE RESTORED TO MATCH EXISTING POST TRENCH EXCAVATION.

MATCH LINE, NOT USED



PIPING COORDINATE TABLE				
POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
701	6" SS, VERT 45° BEND D	349.07	1900761.72	6270780.51
704	6" SS, VERT 45° BEND U	347.08	1900759.88	6270781.25
705	6" SS, 22.5° BEND	347.08	1900714.37	6270799.64
706	6" SS, 45° BEND	347.08	1900633.50	6270798.93
707	6" SS, 45° VERT BEND U	347.08	1900577.20	6270854.25
708	6" SS, TEE	353.30	1900572.67	6270858.59
709	96" ML, 17" BEND R ROLLED 4.2" U	325.33	1900838.73	6270751.96
713	42" RAS, 17" BEND R ROLLED 2.8" U	335.66	1900835.95	6270744.83
716	42" RAS, 65.6° BEND R ROLLED 5.6" D	342.44	1900701.93	6270780.76
717	4" PW, 90° BEND	359.78	1900607.15	6270855.80
727	NOT USED			
728	NOT USED			
729	NOT USED			
742	8" FPW, 45° BEND	362.59	1900568.56	6270919.43
743	8" FPW, 45° BEND	362.65	1900568.30	6270949.43
744	10" LG, CONNECT TO EXST	356.72	1900713.40	6270902.32
745	10" LG, 45° BEND	357.33	1900698.35	6270910.58
746	10" PD, 22.5° BEND	SP	1900790.11	6270764.04

SP = SEE PROFILE



PK2-Y-107

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
YARD PIPING PLAN - AREA 7

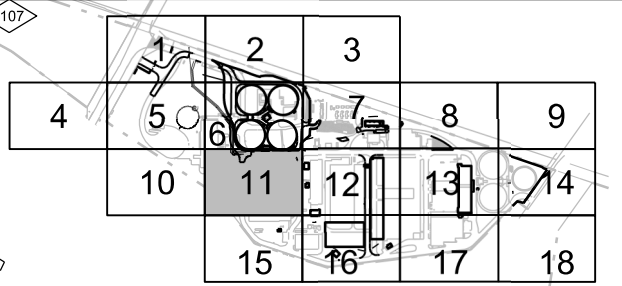
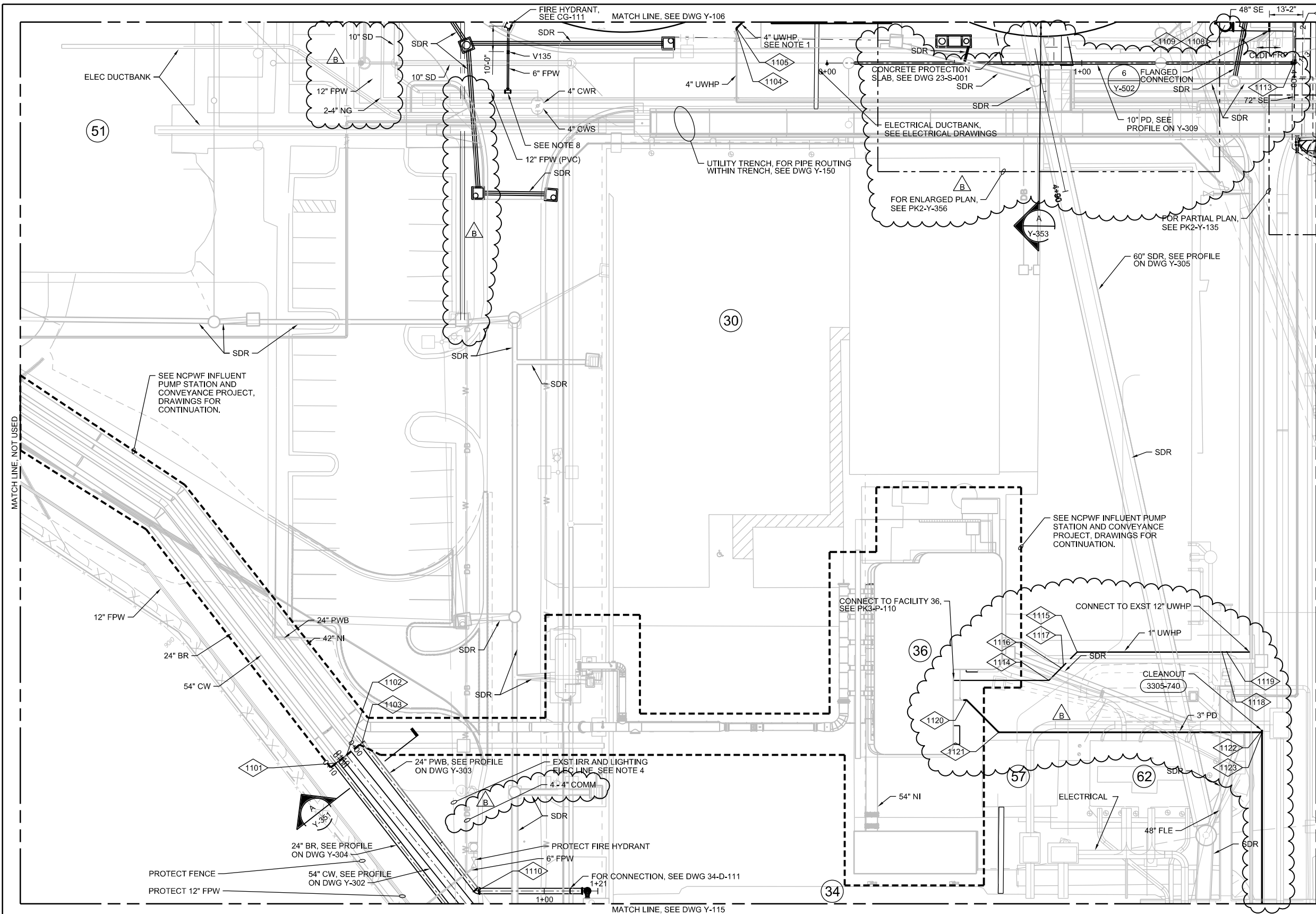
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 159 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrew Demuth</i> FOR CITY ENGINEER PRINT DCE NAME: Andrew Demuth	DATE: 12/03/2020 C70321	PROJECT MANAGER: MONIKA SMOczynski
PROJECT ENGINEER: THIEN-LONG TRAN	DATE STARTED: 2/3/21	DATE COMPLETED:
DESCRIPTION: Addendum B	BY: CH	APPROVED: <i>Andrew</i>
260-1709	CCS27 COORDINATE	1900-6269
CCS33 COORDINATE	40381-2159-D	

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
C 7181
MATTHEW JOHN BALDWIN
CIVIL
DIGITALLY SIGNED: 01/27/2021

CONTRACTOR INSPECTOR

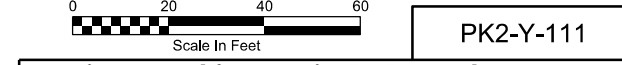
WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



KEYPLAN
NTS

- NOTE:**
- CONNECT TO EXISTING PVC PIPE PER SPECIFICATION 33 05 01.09.
 - FOR SDR PIPING INFORMATION, SEE DWG CG-111.
 - EXCAVATION SUPPORT PLAN REQUIRED PER SPECIFICATION 31 41 00. FINAL LOCATIONS, EXTENT OF, AND DESIGN OF SHORING TO BE DETERMINED BY THE CONTRACTOR.
 - PROTECT EXISTING ELECTRICAL LINE OR TEMPORARILY REMOVE AND REPLACE TO MATCH EXISTING DURING INSTALLATION OF NEW YARD PIPING. COORDINATE WITH OWNER FOR ALLOWABLE SHUTDOWN PERIOD OF ELECTRICAL LINE AND RECONNECT ELECTRICAL AS SPECIFIED.
 - FOR SITE ELECTRICAL, SEE DWG ES-111
 - SDR SIZES NOT CALLED OUT FOR CLARITY.
 - SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.
 - CONNECT TO EXST 12" FPW WITH 12" x 6" TAPPING SLEEVE, ROMAC FTS 420 OR EQUAL AS LISTED ON CITY OF SAN DIEGO APPROVED MATERIALS LIST. FIELD VERIFY LOCATION AND DEPTH.

PIPING COORDINATE TABLE				
POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
1101	24" BR, POB ALIGNMENT	333.86	1900893.62	6270122.97
1102	54" CW, POB ALIGNMENT	334.34	1900892.98	6270128.15
1103	24" PWB, POB ALIGNMENT	333.89	1900892.02	6270135.81
1104	4" UWHP, CONNECT TO EXST	339.75	1900985.87	6270437.43
1105	4" UWHP, 45° BEND	339.75	1900986.41	6270437.98
1107	72"x48" SE, TEE	327.14	1900829.87	6270595.72
1106	48" SE, 90° VERT BEND L	327.14	1900851.69	6270574.34
1109	48" SE, 90° VERT BEND D	341.02	1900851.69	6270574.34
1110	24" PWB, 52° BEND L ROLLED 3.6" U	330.18	1900819.05	6270126.53
1113	10" PD, 90° BEND	SP	1900821.92	6270583.07
1114	1" UWHP, 45° BEND	339.47	1900718.78	6270343.68
1115	1" UWHP, 45° BEND	338.23	1900718.78	6270359.36
1116	1" UWHP, 45° VERT BEND	339.47	1900718.78	6270350.51
1117	1" UWHP, 45° VERT BEND	338.23	1900718.78	6270351.75
1118	1" UWHP, 45° VERT BEND	338.22	1900678.58	6270399.57
1119	1" UWHP, 45° VERT BEND	336.39	1900677.29	6270400.87
1120	3" PD, 45° BEND	341.16	1900736.17	6270315.35
1121	3" PD, 45° BEND	340.29	1900718.29	6270315.36
1122	3" PD, 45° BEND	339.24	1900645.24	6270388.40
1123	3" PD, CLEANOUT	-	1900645.65	6270388.82



PK2-Y-111

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

YARD PIPING PLAN - AREA 11

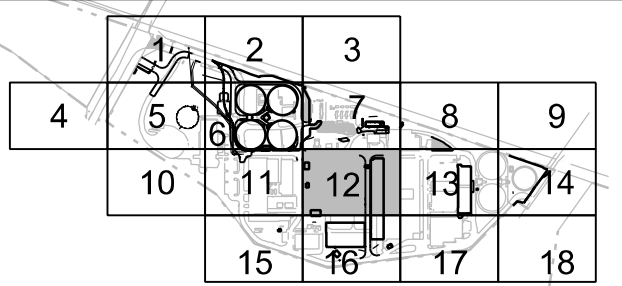
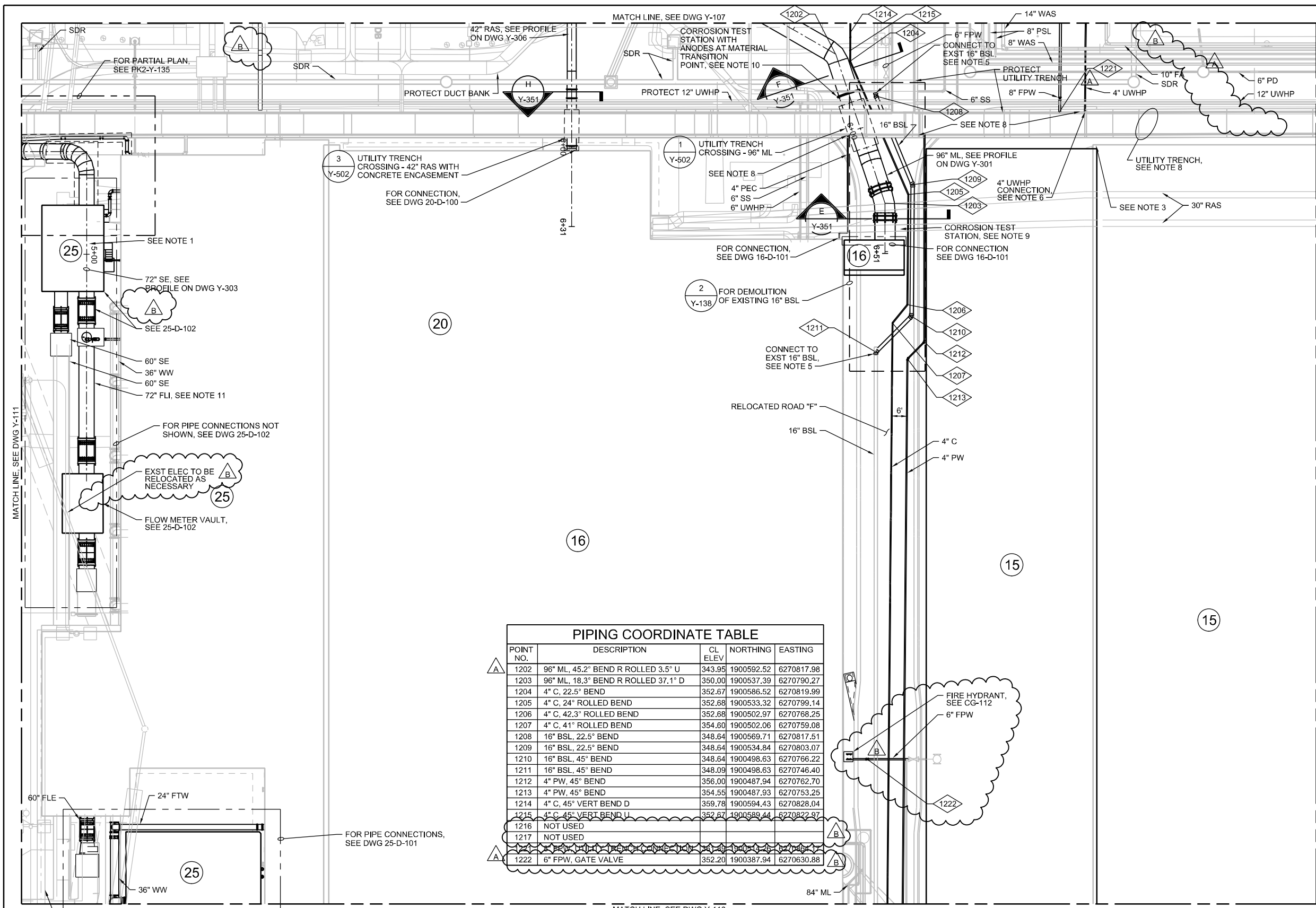
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 160 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER ANDREA DEMUTH PRINT DCE NAME	DATE 12/03/2020 C70321 RCE#	SUBMITTED BY MONIKA SMOczynski PROJECT MANAGER
DESCRIPTION Addendum B	BY CH	CHECKED BY THIEN-LONG TRAN PROJECT ENGINEER
APPROVED [Signature]	DATE 2/3/21	FILM 260-1709
		CCS27 COORDINATE 1900-6269
		CCS83 COORDINATE 40381-2160-D
CONTRACTOR	DATE STARTED	DATE COMPLETED
INSPECTOR		

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
C 7181
MATTHEW JOHN BALDWIN
CIVIL

DIGITALLY SIGNED: 01/27/2021

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

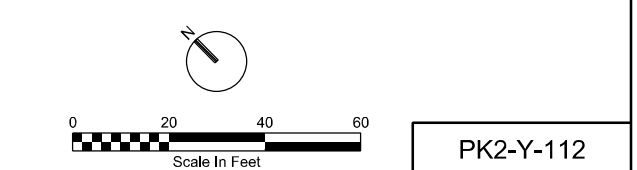


KEYPLAN
NTS

- NOTES:**
- REMOVE EXISTING SECTIONS OF 72" FLI AND 60" SE AND CONNECT TO NEW FILTER INFLUENT STRUCTURE. FOR CONTINUATION, SEE 25-D-100.
 - NOT USED.
 - FOR SITE ELECTRICAL, SEE DWG ES-112.
 - FOR SDR PIPING INFORMATION, SEE DWG CG-112.
 - CONNECT TO EXISTING PVC PIPE WITH RESTRAINED MJ FITTING OR RESTRAINED COUPLING. INSTALL IN ACCORDANCE WITH MFG RECOMMENDATIONS. PROVIDE CORROSION PROTECTION AS SPECIFIED. SEE SPECIFICATION 33 05 01.09.
 - CONNECT TO EXISTING PVC PIPE WITH 12"x4" TEE. PROVIDE RESTRAINED COUPLING AND CORROSION PROTECTION PER SPECIFICATION 33 05 01.09.
 - EXCAVATION SUPPORT PLAN REQUIRED PER SPECIFICATION 31 41 00. FINAL LOCATIONS, EXTENT OF, AND DESIGN OF SHORING TO BE DETERMINED BY THE CONTRACTOR.
 - FOR CONNECTION AND ROUTING DETAILS OF PIPES IN UTILITY TRENCH, SEE DWG Y-150.
 - INSTALL 2-WIRE TEST STATION PER DETAIL 4 ON SHEET CP-101. CONNECT STRUCTURE LEADS WITHIN 5 FEET OF BASIN WALL.
 - INSTALL 2-WIRE TEST STATION WITH 2-ANODES PER DETAIL 1 ON SHEET CP-101. FIELD LOCATE ANODES AND TEST BOX AS NEEDED TO AVOID CONFLICT WITH OTHER BURIED STRUCTURES.
 - SEE DWG 25-D-102 FOR CORROSION CONTROL REQUIREMENTS ON 72" FLI.
 - NOT USED.
 - SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.
 - FPW LOCATED INSIDE UTILITY TRENCH TO STAY IN SERVICE DURING CONSTRUCTION.

PIPING COORDINATE TABLE

POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
1202	96" ML, 45.2° BEND R ROLLED 3.5° U	343.95	1900592.52	6270817.98
1203	96" ML, 18.3° BEND R ROLLED 37.1° D	350.00	1900537.39	6270790.27
1204	4" C, 22.5° BEND	352.67	1900586.52	6270819.99
1205	4" C, 24° ROLLED BEND	352.68	1900533.32	6270799.14
1206	4" C, 42.3° ROLLED BEND	352.68	1900502.97	6270768.25
1207	4" C, 41° ROLLED BEND	354.60	1900502.06	6270759.08
1208	16" BSL, 22.5° BEND	348.64	1900569.71	6270817.51
1209	16" BSL, 22.5° BEND	348.64	1900534.84	6270803.07
1210	16" BSL, 45° BEND	348.64	1900498.63	6270766.22
1211	16" BSL, 45° BEND	348.09	1900498.63	6270746.40
1212	4" PW, 45° BEND	356.00	1900487.94	6270762.70
1213	4" PW, 45° BEND	354.55	1900487.93	6270753.25
1214	4" C, 45° VERT BEND D	359.78	1900594.43	6270828.04
1215	4" C, 45° VERT BEND U	352.67	1900589.44	6270822.97
1216	NOT USED			
1217	NOT USED			
1222	6" FPW, GATE VALVE	352.20	1900387.94	6270630.88



PK2-Y-112

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

YARD PIPING PLAN - AREA 12

CONSULTANT

ch2m

WARNING
0 1
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CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 161 OF 1169 SHEETS

B-16149, S-17012
WBS B-15142

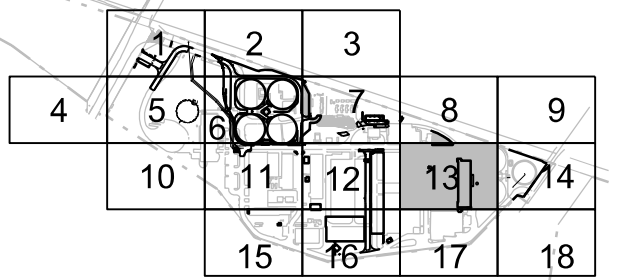
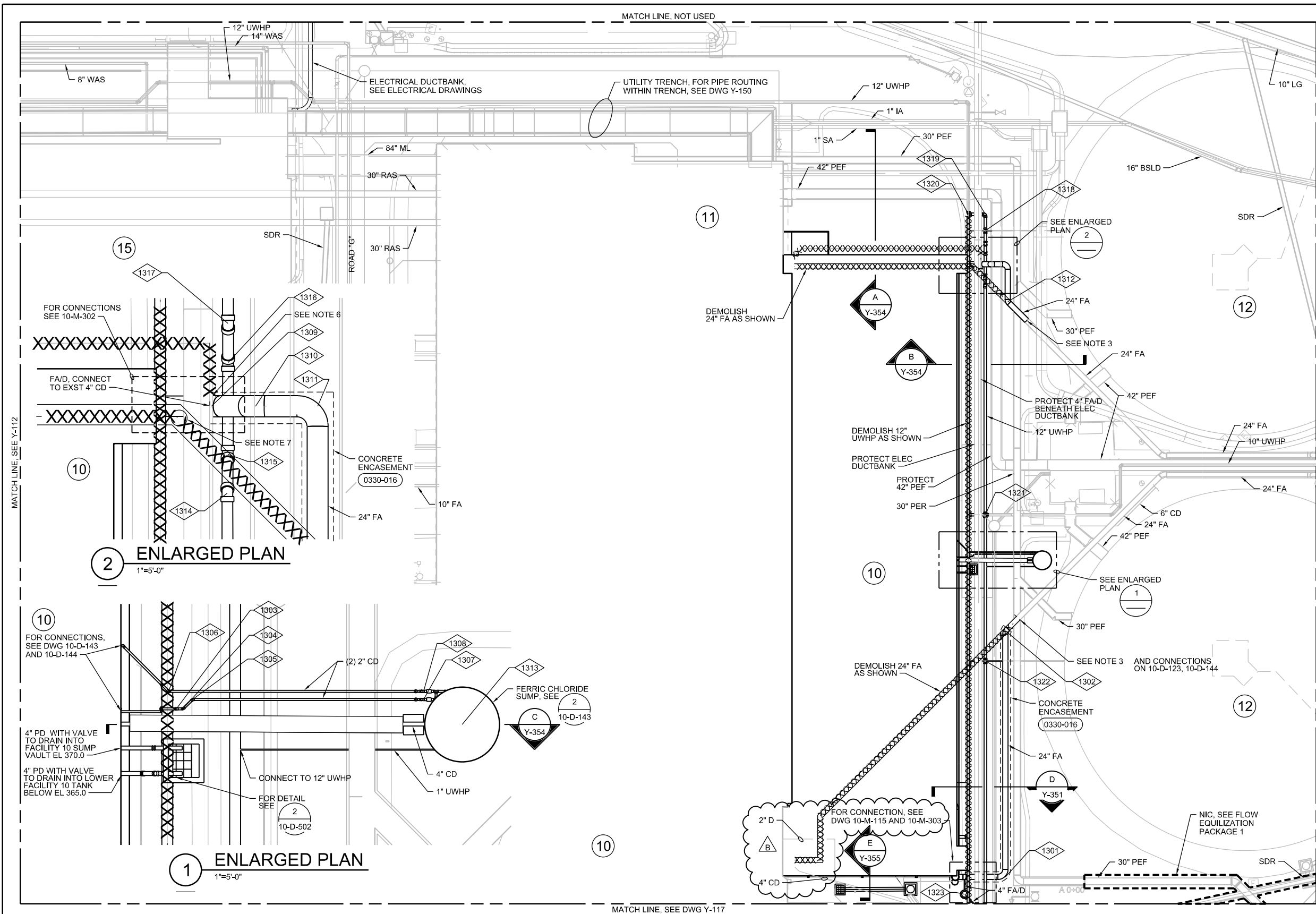
APPROVED: *[Signature]* DATE: 12/03/2020
FOR CITY ENGINEER: Andrea Demich C70321
PRINT DCE NAME: RCE#

PROJECT MANAGER: **MONIKA SMOczynski**
PROJECT ENGINEER: **THIEN-LONG TRAN**

DESCRIPTION	BY	APPROVED	DATE	FIRM
Addendum A	CH	<i>[Signature]</i>	1/15/21	260-1709
Addendum B	CH	<i>[Signature]</i>	2/3/21	CC327 COORDINATE
				1900-6269
				CC383 COORDINATE

DATE STARTED: _____ DATE COMPLETED: _____

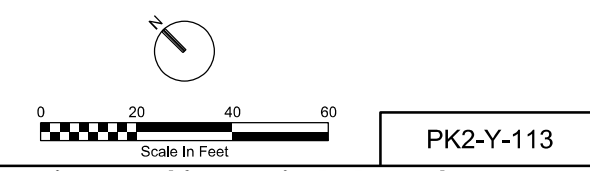
40381-2161-D



KEYPLAN
NTS

- NOTES:**
1. SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.
 2. FOR SITE ELECTRICAL, SEE DWG ES-100.
 3. CONNECT NEW 24" FA TO EXISTING 24" FA. (2331-191)
 4. FOR SDR PIPING INFORMATION, SEE DWG CG-100.
 5. NOT USED.
 6. 4" FA/D LOCATED UNDERNEATH 24" FA. SEE 11-D-100 FOR DETAILS.
 7. CONNECT TO EXISTING 4" FA/D IN YARD WITH CLEANOUT (SC-01) FIELD VERIFY LOCATION AND DEPTH AND PROVIDE MIN 2% SLOPE AWAY FROM FACILITY 10.

PIPING COORDINATE TABLE				
POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
1301	24" FA, 90° BEND	362.70	1899957.17	6270996.23
1302	24" FA, 45° BEND	368.34	1900025.41	6271064.46
1303	2" FC/D, 45° VERT BEND D	373.55	1900055.72	6271075.52
1304	2" FC/D, 45° BEND	373.55	1900055.26	6271075.99
1305	2" FC/D, 45° BEND	373.55	1900055.26	6271077.28
1306	2" FC/D, 45° BEND	373.55	1900057.49	6271076.19
1307	2" FC/D, 90° VERT BEND U	373.55	1900039.24	6271093.30
1308	2" FC/D, 90° VERT BEND U	373.55	1900039.81	6271093.87
1309	24" FA, 45° VERT BAND U	364.00	1900133.90	6271159.54
1310	24" FA, 45° VERT BAND D	368.30	1900130.84	6271162.58
1311	24" FA, 90° BEND	368.79	1900126.53	6271166.89
1312	24" FA, 45° BEND	369.26	1900116.14	6271156.50
1313	FERRIC CHLORIDE SUMP	N/A	1900034.82	6271094.26
1314	12" UWHP, 45° VERT BEND D	365.35	1900126.77	6271154.62
1315	12" UWHP, 45° VERT BEND U	361.55	1900129.44	6271157.33
1316	12" UWHP, 45° VERT BEND U	361.55	1900135.77	6271163.72
1317	12" UWHP, 45° VERT BEND D	365.32	1900138.50	6271166.42
1318	12"x2" UWHP, TEE	365.32	1900142.05	6271169.98
1319	12" UWHP, 90° BEND	365.32	1900146.58	6271174.50
1320	12" UWHP, 90° BEND	365.32	1900151.28	6271169.80
1321	12" UWHP, TEE	365.32	1900063.21	6271091.14
1322	12"x2" UWHP, TEE	365.32	1900022.64	6271050.57
1323	CONDENSATE MANHOLE	N/A	1899963.68	6270980.07



PK2-Y-113
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
YARD PIPING PLAN - AREA 13

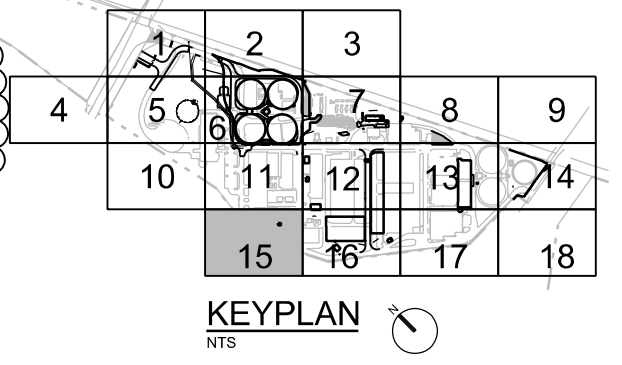
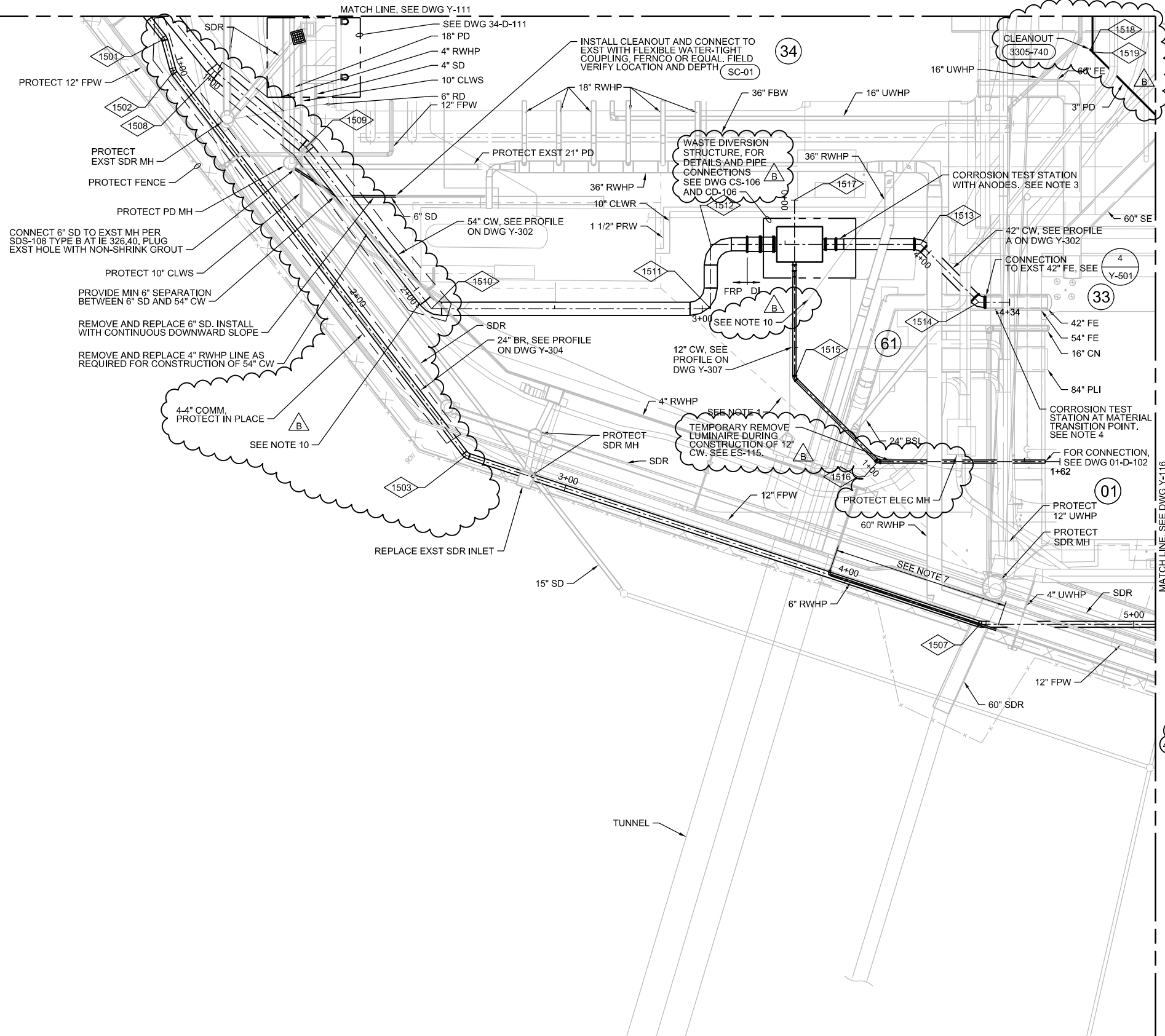
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 162 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142		
APPROVED: <i>Andrew Demich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrew Demich	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOczynski PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FIRM
▲ Addendum B	CH	<i>Andrew Demich</i>	2/3/21	260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
CONTRACTOR		DATE STARTED	DATE COMPLETED	
INSPECTOR			40381-2162-D	

CONSULTANT

ch2m

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
C 7181
MATTHEW JOHN BALDWIN
DIGITALLY SIGNED: 01/27/2021

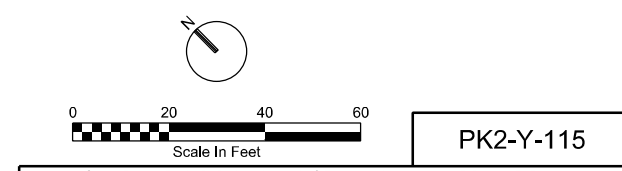
WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



- NOTE:**
- FOR SDR PIPING INFORMATION, SEE DWG CG-100.
 - EXCAVATION SUPPORT PLAN REQUIRED PER SPECIFICATION 31 41 00. FINAL LOCATIONS, EXTENT OF, AND DESIGN OF SHORING TO BE DETERMINED BY THE CONTRACTOR.
 - FOR SITE ELECTRICAL, SEE DWG ES-100.
 - INSTALL 2-WIRE TEST STATION PER DETAIL 4 ON SHEET CP-101.
 - INSTALL 2-WIRE TEST STATION WITH 2-ANODES PER DETAIL 1 ON SHEET CP-101. CONNECT STRUCTURE LEADS WITHIN 5 FEET OF DIVERSION STRUCTURE WALL. FIELD LOCATE ANODES AND TEST BOX AS NEEDED TO AVOID CONFLICT WITH OTHER BURIED STRUCTURES.
 - NOT USED.
 - PROVIDE TEMPORARY BYPASS FOR 4" RWHP DURING TRENCHING AND INSTALLATION OF 24" BR. REPLACE RWHP AS SPECIFIED AND MATCH EXISTING LOCATION AND DEPTH.
 - NOT USED.
 - SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.
 - ELECTRICAL TO BE TEMPORARY RELOCATED AS NECESSARY DURING CONSTRUCTION.

PIPING COORDINATE TABLE

POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
1501	24" BR, 22.5° BEND R	334.01	1900814.60	6270113.13
1502	24" BR, 22.5° BEND L	333.96	1900804.44	6270107.33
1503	24" BR, 35° BEND L	332.40	1900642.39	6270085.54
1507	24" BR, 18.2° BEND L ROLLED 9.4° U	332.40	1900478.92	6270168.14
1508	54" CW, 11.25° BEND L ROLLED 12" U	330.24	1900794.80	6270117.42
1509	54" CW, 11.25° BEND R	330.25	1900754.60	6270120.95
1510	54" CW, 52° BEND L	330.25	1900685.85	6270112.39
1511	54" CW, 45° BEND L	330.25	1900619.02	6270179.22
1512	54" CW, 45° BEND R	330.25	1900634.49	6270194.69
1513	42" CW, 45° BEND R ROLLED 8.6° U	330.00	1900584.22	6270244.96
1514	42" CW, 45° BEND L ROLLED 8.6° D	332.78	1900556.37	6270245.01
1515	12" CW, 45° BEND L	332.00	1900582.31	6270182.67
1516	12" CW, 45° BEND L	332.00	1900542.35	6270182.67
1517	12" CW, 45° BEND L	N/A	1900625.82	6270225.37
1518	3" PD, 45 BEND	N/A	1900590.14	6270332.23
1519	3" PD, CLENOT	338.06	1900589.06	6270332.23



PK2-Y-115

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION

**YARD PIPING
PLAN - AREA 15**

CONSULTANT

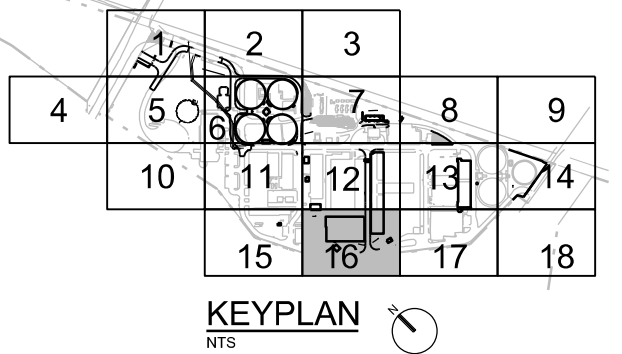
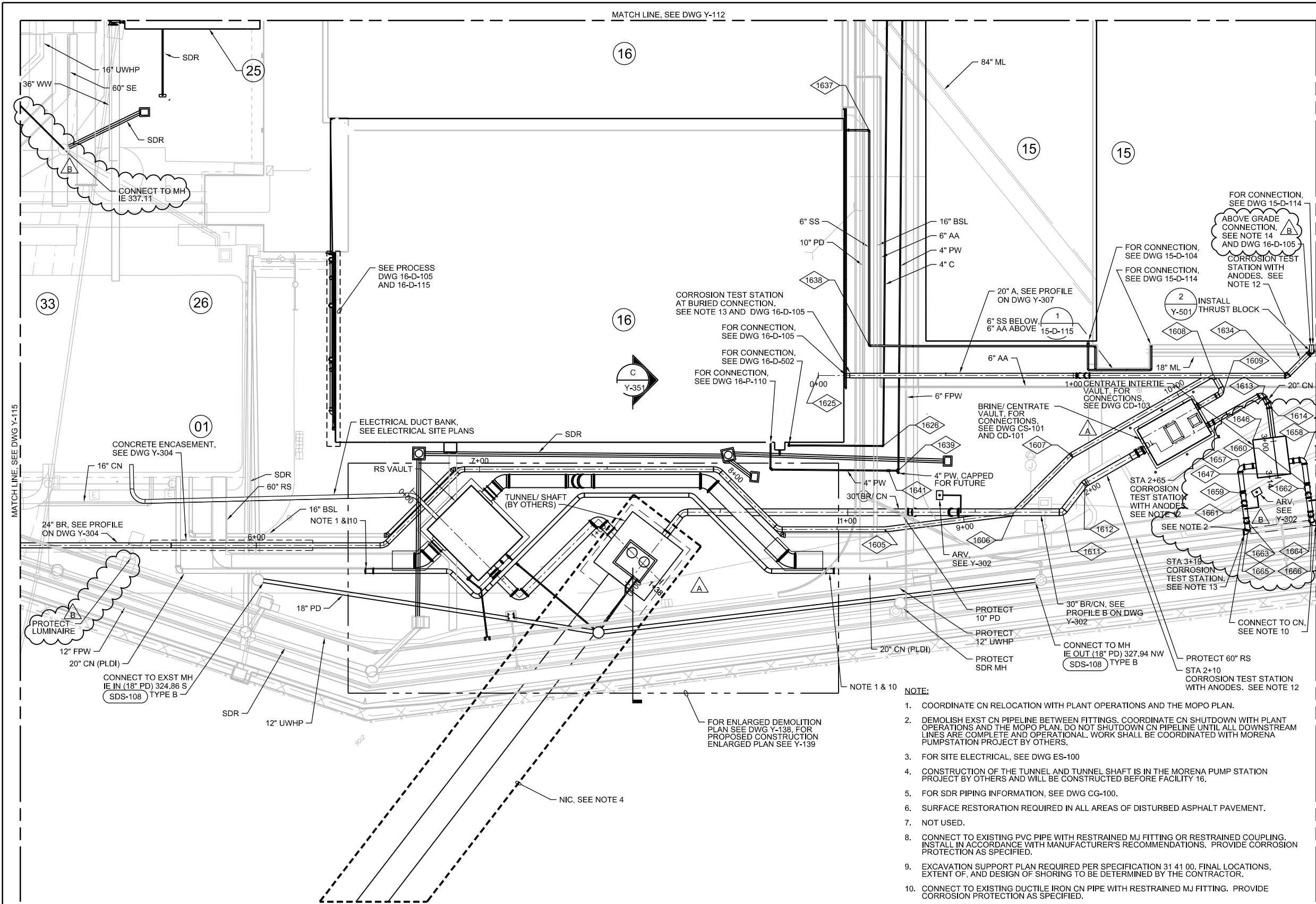
REGISTERED PROFESSIONAL ENGINEER
MATTHEW JOHN BALDWIN
C 7181
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

CONTRACTOR _____
INSPECTOR _____

DATE STARTED _____
DATE COMPLETED _____

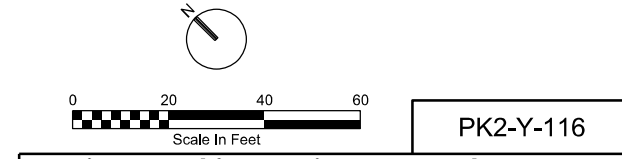
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 163 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andria Demich	DATE: 12/03/2020 C70321	PROJECT MANAGER: MONIKA SMOCCZYNSKI
DESCRIPTION: Addendum B	BY: CH	PROJECT ENGINEER: THIEN-LONG TRAN
APPROVED: <i>[Signature]</i>	DATE: 2/3/21	260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
		40381-2163-D



- NOTES (CONTINUED):
- INSTALL 2-WIRE TEST STATION PER DETAIL 4 ON SHEET CP-101
 - INSTALL 2-WIRE TEST STATION WITH 2-ANODES PER DETAIL 1 ON SHEET CP-101
 - INSTALL FLANGE ISOLATION KIT AND 4-WIRE TEST STATION AT BURIED CONNECTION PER DETAIL 2 ON SHEET CP-101
 - INSTALL ABOVE GRADE FLANGE ISOLATION KIT AT CONNECTION POINT PER DETAIL 3 ON SHEET CP-101
 - NOT USED.
 - PIPING BY MORENA PUMP STATION TUNNEL CONTRACT NOT SHOWN FOR CLARITY.

PIPING COORDINATE TABLE				
POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
1605	24" BR, 7° BEND L	348.50	1900201.33	6270454.55
1606	24" BR, 38° BEND L	350.51	1900170.22	6270494.59
1607	24" BR, 15° BEND R	352.03	1900170.23	6270526.78
1608	24" BR, 90° BEND R ROLLED 2.2° D	354.54	1900153.40	6270588.60
1609	24" BR, 90° BEND R	354.46	1900145.88	6270586.50
1611	30" BR, 52° BEND L	354.46	1900156.88	6270508.48
1612	30" BR, 22.5° BEND R	354.46	1900134.21	6270522.81
1613	30" BR/ CN, 90° BEND R	354.46	1900134.25	6270596.77
1614	30" BR/ CN, 22.5° BEND R	354.46	1900129.26	6270595.41
1625	20" A, POB ALIGNMENT	N/A	1900262.59	6270478.72
1626	4" C, 90° BEND	354.55	1900225.02	6270477.14
1634	20" A, 45° BEND L	360.55	1900132.49	6270608.81
1637	6" SS, 90° BEND	358.17	1900316.58	6270560.88
1638	6" SS, 90° BEND	358.00	1900256.79	6270501.09
1639	4" PW, TEE ROLLED 45° D	354.55	1900213.99	6270474.47
1641	2" PW, 45° VERT BEND	350.69	1900216.75	6270471.77
1646	CENTRATE VAULT CORNER	365.26	1900124.15	6270581.33
1647	CENTRATE VAULT CORNER	365.26	1900104.33	6270582.43
1657	20" CN, 90 BEND	354.45	1900120.10	6270570.07
1658	20" CN, 90 BEND	354.45	1900104.58	6270590.11
1659	20" CN, 45° VERT BEND U	354.45	1900112.03	6270563.82
1660	20" CN, 45° VERT BEND U	354.45	1900096.50	6270583.85
1661	20" CN, 45° VERT BEND	358.57	1900108.77	6270561.30
1662	20" CN, 45° VERT BEND	358.57	1900093.24	6270581.33
1663	20" CN, 45° VERT BEND D	358.57	1900103.66	6270557.34
1664	20" CN, 45° VERT BEND D	358.57	1900087.63	6270576.99
1665	20" CN, 90 BEND	353.96	1900100.01	6270554.51
1666	20" CN, 90 BEND	354.53	1900084.44	6270574.51

- NOTE:
- COORDINATE CN RELOCATION WITH PLANT OPERATIONS AND THE MOPO PLAN.
 - DEMOLISH EXST CN PIPELINE BETWEEN FITTINGS. COORDINATE CN SHUTDOWN WITH PLANT OPERATIONS AND THE MOPO PLAN. DO NOT SHUTDOWN CN PIPELINE UNTIL ALL DOWNSTREAM LINES ARE COMPLETE AND OPERATIONAL. WORK SHALL BE COORDINATED WITH MORENA PUMPSTATION PROJECT BY OTHERS.
 - FOR SITE ELECTRICAL, SEE DWG ES-100
 - CONSTRUCTION OF THE TUNNEL AND TUNNEL SHAFT IS IN THE MORENA PUMP STATION PROJECT BY OTHERS AND WILL BE CONSTRUCTED BEFORE FACILITY 16.
 - FOR SDR PIPING INFORMATION, SEE DWG CG-100.
 - SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED ASPHALT PAVEMENT.
 - NOT USED.
 - CONNECT TO EXISTING PVC PIPE WITH RESTRAINED MJ FITTING OR RESTRAINED COUPLING. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE CORROSION PROTECTION AS SPECIFIED.
 - EXCAVATION SUPPORT PLAN REQUIRED PER SPECIFICATION 31 41 00. FINAL LOCATIONS, EXTENT OF, AND DESIGN OF SHORING TO BE DETERMINED BY THE CONTRACTOR.
 - CONNECT TO EXISTING DUCTILE IRON CN PIPE WITH RESTRAINED MJ FITTING. PROVIDE CORROSION PROTECTION AS SPECIFIED.



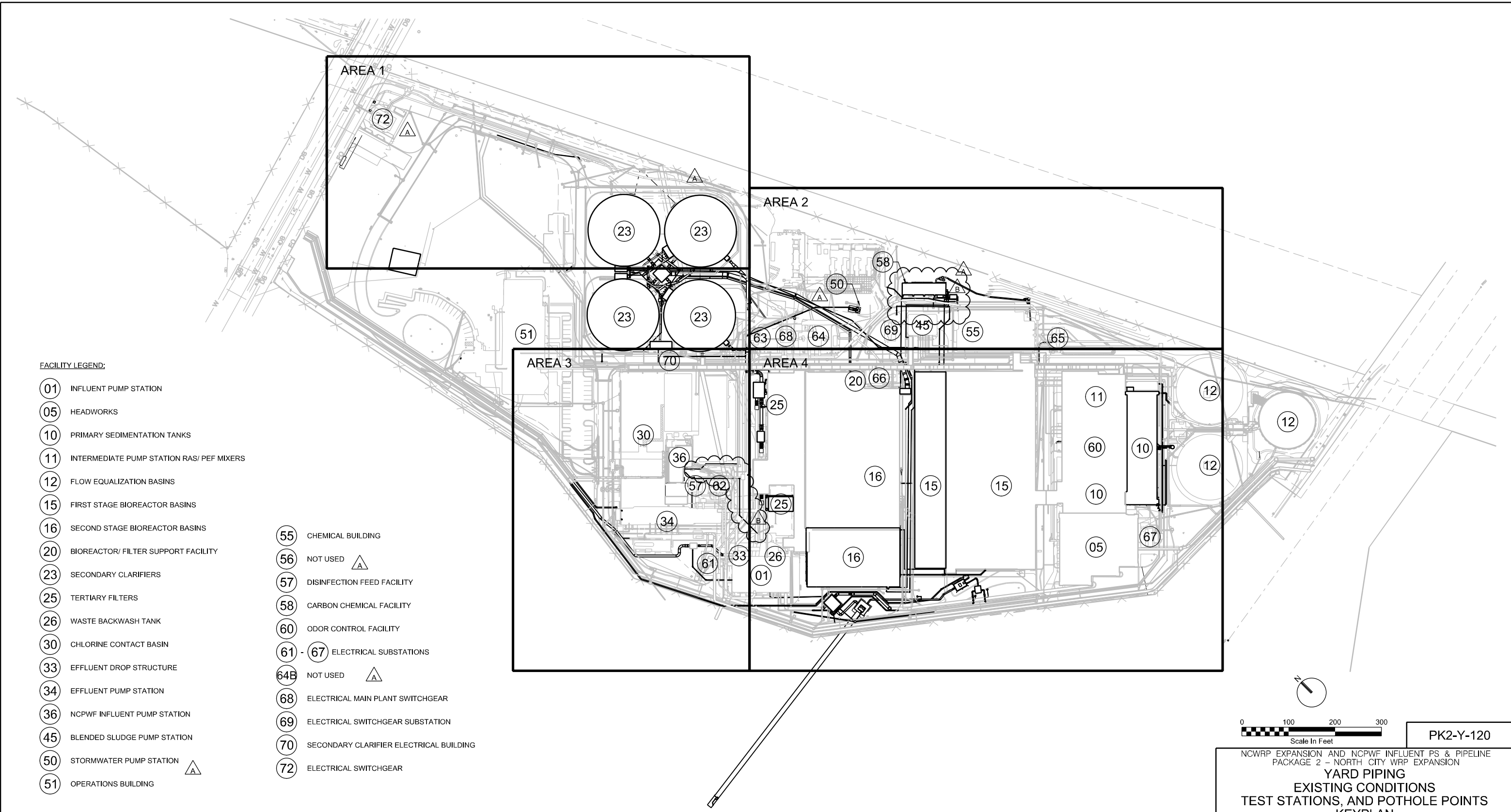
YARD PIPING PLAN - AREA 16

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 164 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142		
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich DATE: 12/03/2020 C/0321	DESIGNED BY: <i>[Signature]</i> APPROVED: <i>[Signature]</i> DATE: 1/15/21 FILM: 260-1709	SUBMITTED BY: MONIKA SMOczynski PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FILM
▲ Addendum A	CH	<i>[Signature]</i>	1/15/21	
▲ Addendum B	CH	<i>[Signature]</i>	2/3/21	
DATE STARTED: 1900-6269 DATE COMPLETED: CC327 COORDINATE CC383 COORDINATE				

CONSULTANT

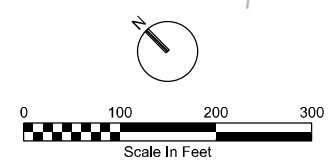
REGISTERED PROFESSIONAL ENGINEER
C 7181
STATE OF CALIFORNIA
DIGITALLY SIGNED: 01/27/2021

CONTRACTOR: _____
INSPECTOR: _____



FACILITY LEGEND:

- (01) INFLUENT PUMP STATION
- (05) HEADWORKS
- (10) PRIMARY SEDIMENTATION TANKS
- (11) INTERMEDIATE PUMP STATION RAS/ PEF MIXERS
- (12) FLOW EQUALIZATION BASINS
- (15) FIRST STAGE BIOREACTOR BASINS
- (16) SECOND STAGE BIOREACTOR BASINS
- (20) BIOREACTOR/ FILTER SUPPORT FACILITY
- (23) SECONDARY CLARIFIERS
- (25) TERTIARY FILTERS
- (26) WASTE BACKWASH TANK
- (30) CHLORINE CONTACT BASIN
- (33) EFFLUENT DROP STRUCTURE
- (34) EFFLUENT PUMP STATION
- (36) NCPWF INFLUENT PUMP STATION
- (45) BLENDED SLUDGE PUMP STATION
- (50) STORMWATER PUMP STATION
- (51) OPERATIONS BUILDING
- (55) CHEMICAL BUILDING
- (56) NOT USED (A)
- (57) DISINFECTION FEED FACILITY
- (58) CARBON CHEMICAL FACILITY
- (60) ODOR CONTROL FACILITY
- (61) - (67) ELECTRICAL SUBSTATIONS
- (64B) NOT USED (A)
- (68) ELECTRICAL MAIN PLANT SWITCHGEAR
- (69) ELECTRICAL SWITCHGEAR SUBSTATION
- (70) SECONDARY CLARIFIER ELECTRICAL BUILDING
- (72) ELECTRICAL SWITCHGEAR



PK2-Y-120

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
YARD PIPING
EXISTING CONDITIONS
TEST STATIONS, AND POTHOLE POINTS
KEYPLAN

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 166 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Matthew John Balow</i>	DATE: 12/03/2020	PROJECT MANAGER: MONIKA SMOCZYNSKI
FOR CITY ENGINEER: <i>Andrea Diemich</i>	DATE: 2/3/21	PROJECT ENGINEER: THIEN-LONG TRAN
PRINT DCE NAME: <i>Matthew John Balow</i>	RCE#	PROJECT ENGINEER: 260-1709
DESCRIPTION	BY	APPROVED
(A) Addendum A	CH	<i>Matthew John Balow</i>
(A) Addendum B	CH	<i>Matthew John Balow</i>
		DATE
		1/15/21
		2/3/21
		FILM
		DATE STARTED
		DATE COMPLETED

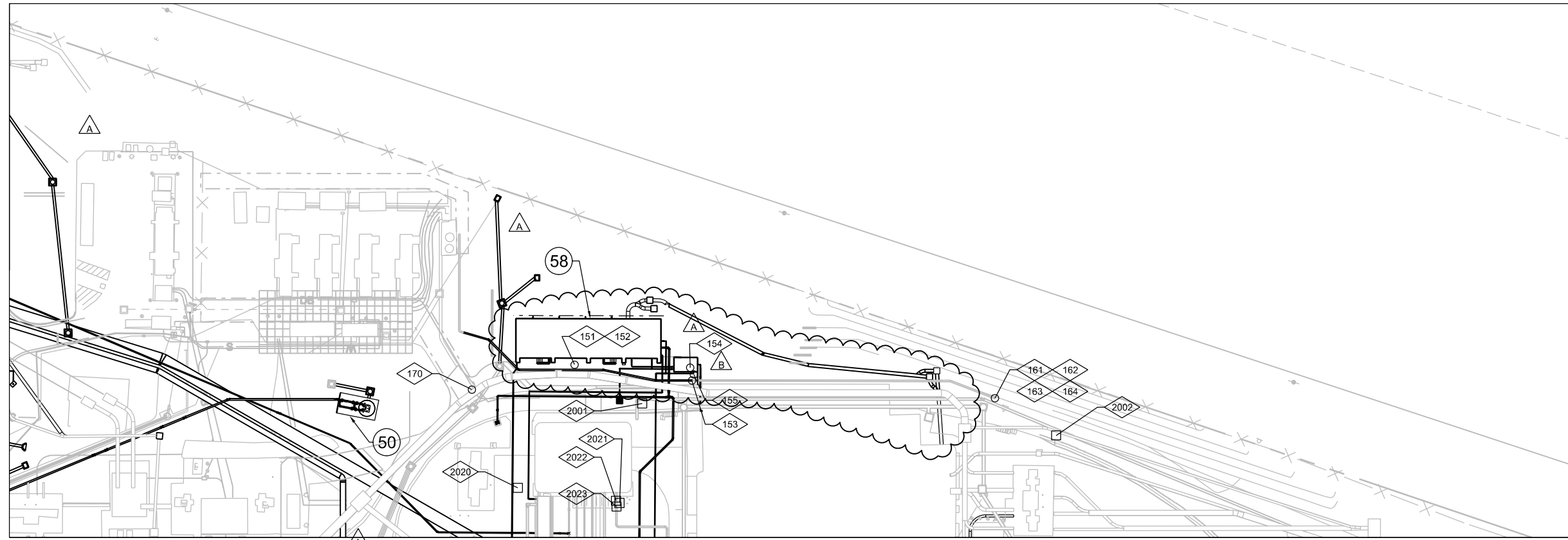
CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
MATTHEW JOHN BALOW
CIVIL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 01/27/2021

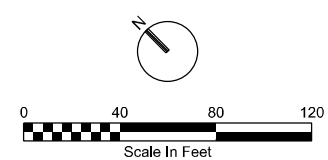
WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



- NOTES:**
1. SEE Y-121 FOR INFORMATION TABLES.
 2. SEE POTHOLE TABLE ON Y-121.



PK2-Y-122

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 2 - NORTH CITY WRP EXPANSION
YARD PIPING
EXISTING CONDITIONS
TEST STATIONS, AND POTHOLE POINTS
PLAN - AREA 2

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC UTILITIES DEPARTMENT
 SHEET 168 OF 1169 SHEETS

B-16149, S-17012
 WBS B-15142

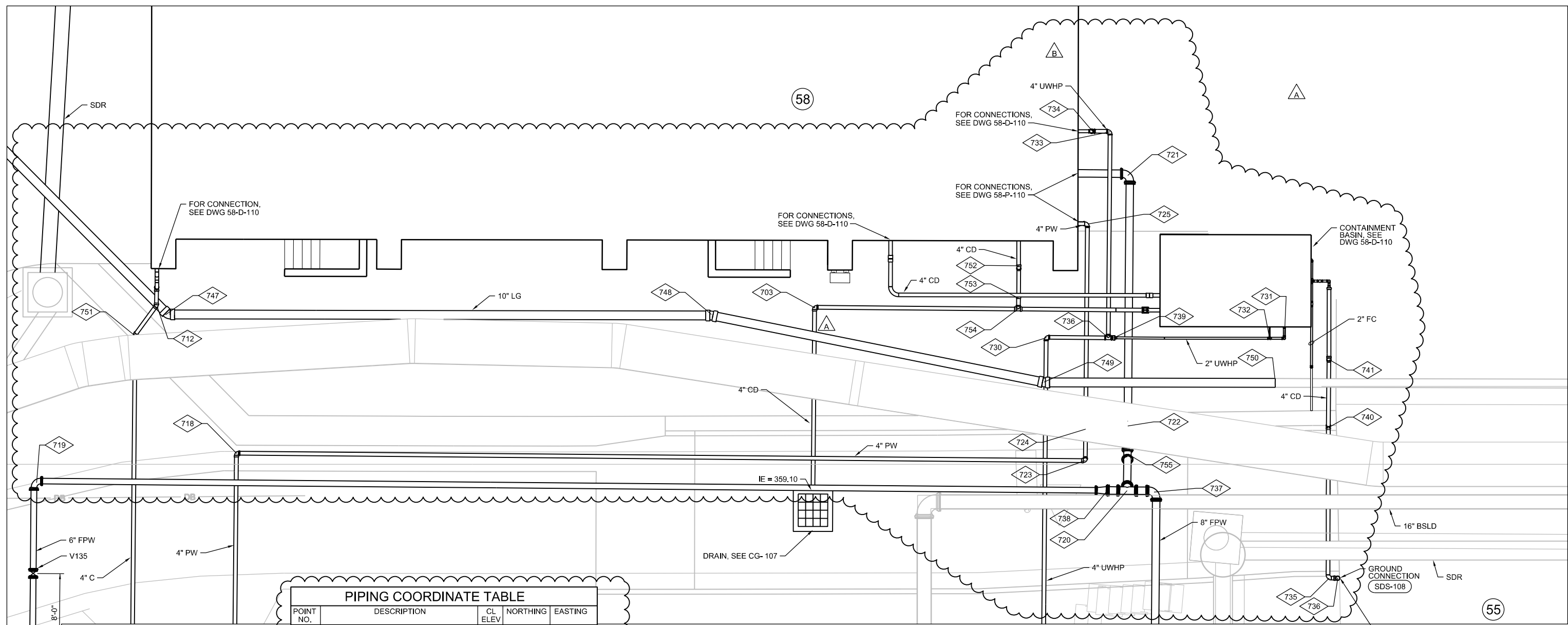
APPROVED: <i>Andrea Diemlich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Diemlich	DATE: 12/03/2020 C70321	PROJECT MANAGER: MONIKA SMO CZYNSKI		
DESIGNER: <i>Thien-Long Tran</i> PRINT DCE NAME: Thien-Long Tran	RCE#	PROJECT ENGINEER: THIEN-LONG TRAN		
DESCRIPTION	BY	APPROVED	DATE	FILM
▲ Addendum A	CH	<i>Thien-Long Tran</i>	1/15/21	
▲ Addendum B	CH	<i>Thien-Long Tran</i>	2/3/21	
260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE				
40381-2168-D				

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
 MATTHEW JOHN BALDWIN
 CIVIL
 STATE OF CALIFORNIA
 C 7181
 DIGITALLY SIGNED: 01/27/2021

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

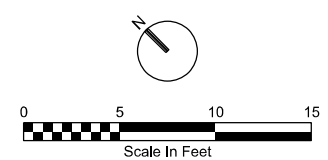
CONTRACTOR _____ DATE STARTED _____
 INSPECTOR _____ DATE COMPLETED _____



PIPING COORDINATE TABLE

POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
703	4" D, 90° BEND	358.94	1900624.95	6270957.41
712	4" C, 45° BEND	360.09	1900672.28	6270910.32
718	4" PW, 90° BEND	359.78	1900655.97	6270905.48
719	6" FPW, 90° BEND	360.59	1900668.49	6270888.96
720	8" FPW, TEE	362.65	1900589.39	6270966.69
721	8" FPW, 90° BEND	356.86	1900611.90	6270989.60
722	8" FPW, 11.25° VERT BEND	356.82	1900593.99	6270971.36
723	4" PW, 90° BEND	360.77	1900594.55	6270965.84
724	4" PW, 45° VERT BEND	357.59	1900596.78	6270968.11
725	4" PW, 90° BEND	357.59	1900611.37	6270982.97
726	4" UWHP, TEE	357.95	1900601.70	6270976.28
730	4" UWHP, 90° BEND	357.95	1900606.19	6270971.87
731	4" UWHP, 90° BEND U	357.95	1900589.03	6270988.88
732	4"x2" UWHP, TEE	367.00	1900590.09	6270987.82
733	4" UWHP, 90° BEND	357.95	1900616.36	6270991.21
734	4" UWHP, 90° BEND U	357.95	1900617.70	6270989.90
735	4" CD, 90° BEND	355.12	1900568.71	6270974.82
736	4" CD, 90° BEND	355.12	1900568.01	6270975.51
737	8" FPW, 90° BEND	362.65	1900587.29	6270968.76
738	FPW, 8"x6" RDCR	362.65	1900590.81	6270965.30
739	UWHP, 4"x2" RDCR	357.95	1900601.30	6270976.68
740	4" CD, 45° VERT BEND	355.30	1900579.54	6270985.69
741	4" CD, 45° BEND	362.17	1900584.34	6270990.58
747	10" LG, 45° BEND	357.93	1900670.83	6270910.51
748	10" LG, 11.25° BEND	359.75	1900631.76	6270949.42
749	10" LG, 11.25° BEND	360.88	1900603.10	6270968.48
750	10" LG, CONNECT TO EXST	361.66	1900586.48	6270985.04
751	4" C, 45° BEND	358.02	1900671.72	6270906.70
752	4" CD, 45° VERT BEND	361.67	1900613.11	6270974.83
753	4" CD, 45° VERT BEND	358.66	1900611.13	6270972.85
754	4" CD, TEE	358.63	1900610.20	6270971.90
755	8" FPW, 45° VERT BEND	357.42	1900591.85	6270969.19

- NOTE:**
- FOR SDR PIPING INFORMATION, SEE DWG CG-107.
 - NOT USED.
 - SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.



WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

ch2mSM

DIGITALLY SIGNED: 01/27/2021



PK2-Y-137

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

YARD PIPING ENLARGED PLAN

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 173 OF 1169 SHEETS

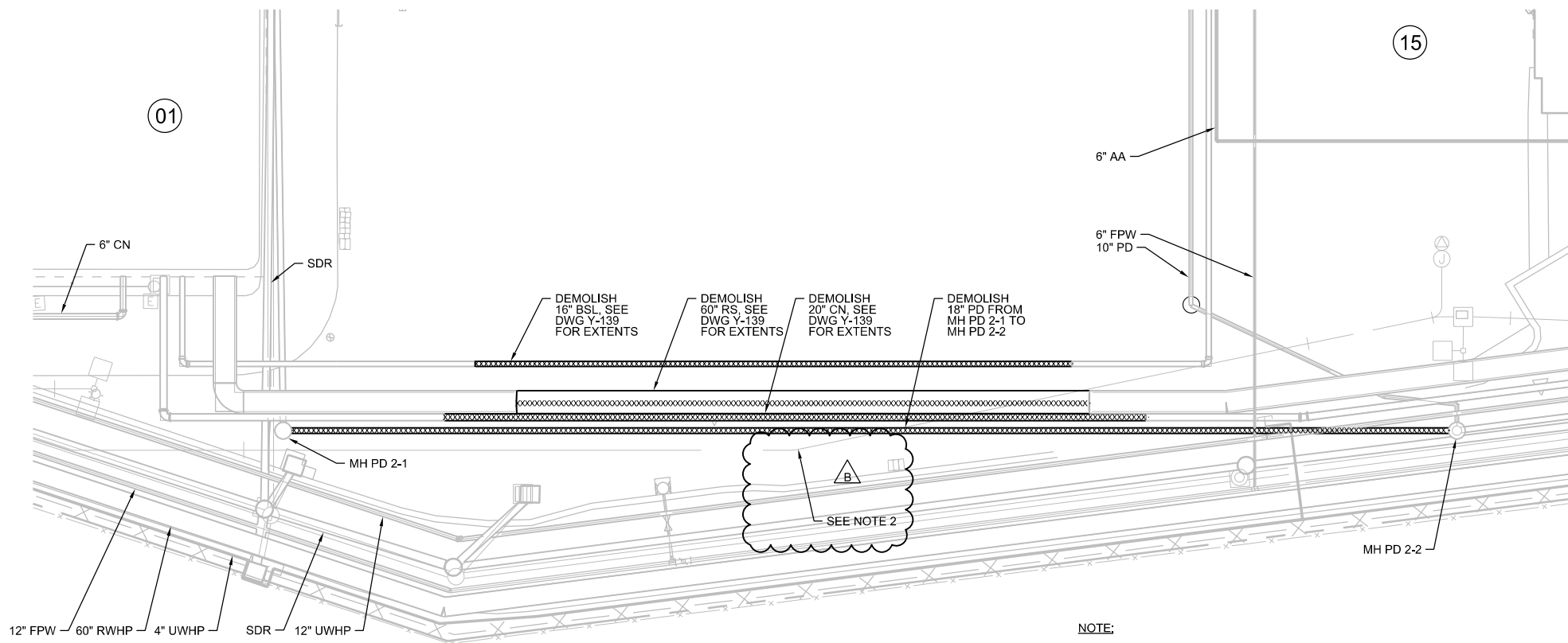
B-16149, S-17012
WBS B-15142

APPROVED: <i>Andrea Demich</i>	DATE: 12/03/2020	FOR CITY ENGINEER	DATE: 07/03/21	PROJECT MANAGER
PRINT DCE NAME: <i>Andrea Demich</i>	RCE#			PROJECT ENGINEER
DESCRIPTION	BY	APPROVED	DATE	FILM
▲ Addendum A	CH	<i>Andrea Demich</i>	1/15/21	
▲ Addendum B	CH	<i>Andrea Demich</i>	2/3/21	

THIEN-LONG TRAN
PROJECT ENGINEER
260-1709
CCS27 COORDINATE
1900-6269
CCS83 COORDINATE

CONTRACTOR INSPECTOR _____ DATE STARTED _____ DATE COMPLETED _____

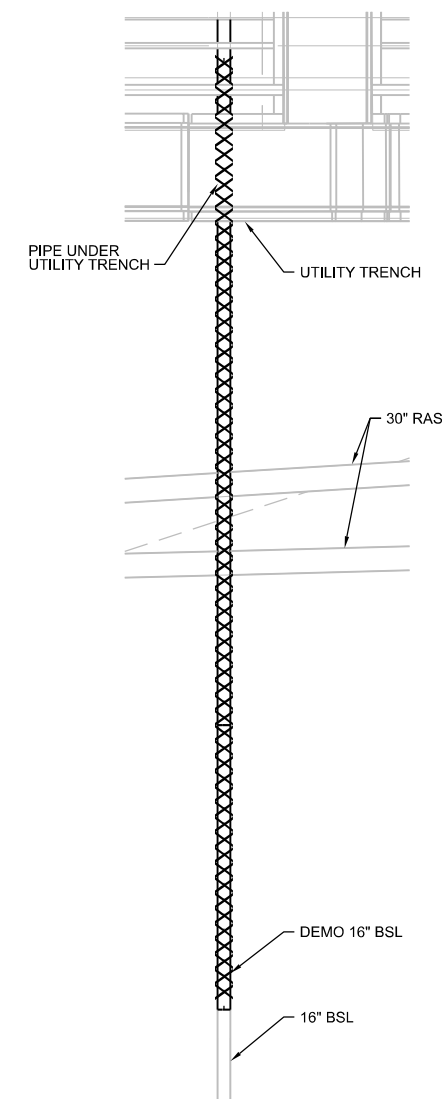
40381-2173-D



1 ENLARGED PLAN
1"=20'
Y-116

NOTE:

1. PROPOSED PIPEWORKS NOT SHOWN FOR CLARITY. SEE ENLARGED PLAN ON DWG Y-139 FOR PROPOSED PIPEWORKS LOCATIONS.
2. RELOCATE ELECTRICAL AND IRRIGATION AS REQUIRED FROM MPS TUNNEL PORTAL (BY OTHERS).



2 ENLARGED PLAN
1"=10'
Y-112

PK2-Y-138

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION											
YARD PIPING ENLARGED PLAN											
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 174 OF 1169 SHEETS	B-16149, S-17012 WBS B-15142										
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: <i>[Signature]</i> DATE: 12/03/2020 RCE#: C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER 260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE										
<table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> <th>FIRM</th> </tr> </thead> <tbody> <tr> <td>Addendum B</td> <td>CH</td> <td><i>[Signature]</i></td> <td>2/3/21</td> <td></td> </tr> </tbody> </table>	DESCRIPTION	BY	APPROVED	DATE	FIRM	Addendum B	CH	<i>[Signature]</i>	2/3/21		CONTRACTOR: _____ INSPECTOR: _____ DATE STARTED: _____ DATE COMPLETED: _____
DESCRIPTION	BY	APPROVED	DATE	FIRM							
Addendum B	CH	<i>[Signature]</i>	2/3/21								

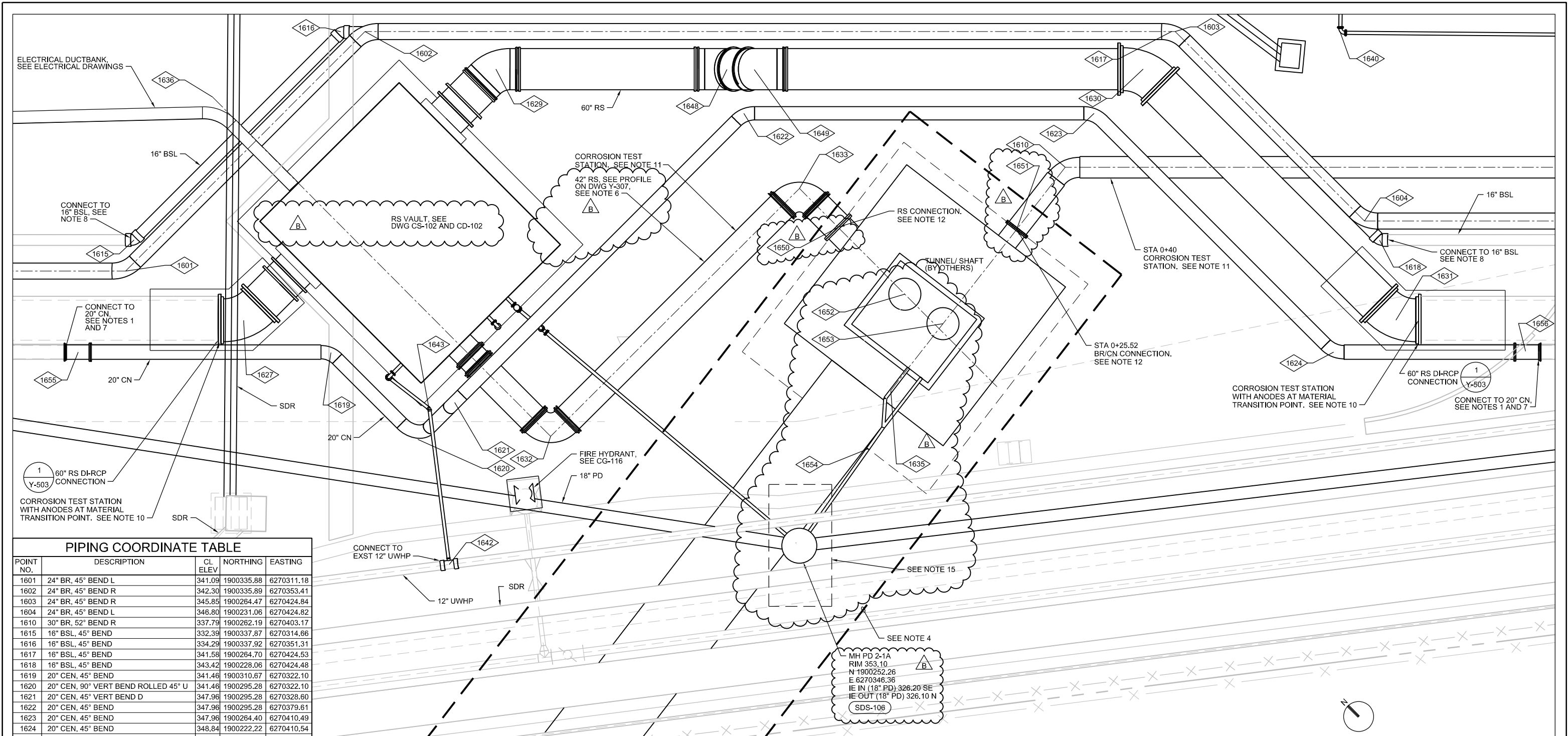
CONSULTANT

ch2mSM

DIGITALLY SIGNED: 01/27/2021

REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 CIVIL
 C 7181
 MATTHEW JOHN BALDWIN

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



PIPING COORDINATE TABLE

POINT NO.	DESCRIPTION	CL ELEV.	NORTHING	EASTING
1601	24" BR, 45° BEND L	341.09	1900335.88	6270311.18
1602	24" BR, 45° BEND R	342.30	1900335.89	6270353.41
1603	24" BR, 45° BEND R	345.85	1900264.47	6270424.84
1604	24" BR, 45° BEND L	346.80	1900231.06	6270424.82
1610	30" BR, 52° BEND R	337.79	1900262.19	6270403.17
1615	16" BSL, 45° BEND	332.39	1900337.87	6270314.66
1616	16" BSL, 45° BEND	334.29	1900337.92	6270351.31
1617	16" BSL, 45° BEND	341.58	1900264.70	6270424.53
1618	16" BSL, 45° BEND	343.42	1900228.06	6270424.48
1619	20" CEN, 45° BEND	341.46	1900310.67	6270322.10
1620	20" CEN, 90° VERT BEND ROLLED 45° U	341.46	1900295.28	6270322.10
1621	20" CEN, 45° VERT BEND D	347.96	1900295.28	6270328.60
1622	20" CEN, 45° BEND	347.96	1900295.28	6270379.61
1623	20" CEN, 45° BEND	347.96	1900264.40	6270410.49
1624	20" CEN, 45° BEND	348.84	1900222.22	6270410.54
1627	60" RS, 45° BEND	337.36	1900321.13	6270317.26
1629	60" RS, 45° BEND	338.88	1900321.05	6270361.83
1630	60" RS, 45° BEND	342.84	1900263.97	6270418.71
1631	60" RS, 45° BEND	344.32	1900219.56	6270418.83
1632	42" RS, 90° BEND L	337.36	1900283.84	6270334.09
1633	42" RS, 90° BEND R	337.36	1900283.76	6270377.88
1635	30" BR, POB ALIGNMENT	N/A	1900257.89	6270368.11
1636	42" RS, POB ALIGNMENT	N/A	1900343.57	6270334.19
1640	2" CW, 90° BEND	359.09	1900248.36	6270439.23
1642	4"x12" UWHP TEE	345.87	1900281.46	6270313.84
1643	4" UWHP, 90° BEND	346.00	1900297.92	6270425.61
1644	NOT USED			
1645	NOT USED			
1648	60" RS, 45° VERT BEND U	337.36	1900301.36	6270384.30
1649	60" RS, 45° VERT BEND D	342.84	1900297.50	6270385.18
1650	42" RS CONNECTION *	337.36	1900276.92	6270377.86
1651	30" BR/CN CONNECTION *	337.80	1900261.00	6270393.44
1652	42" RS CL VERT PIPE IN SHAFT **	N/A	1900265.14	6270377.84
1653	30" BR/CN VERT PIPE IN SHAFT **	N/A	1900259.18	6270378.61
1654	4" D CONNECTION *	339.67	1900254.76	6270360.97
1655	20" CN CONNECTION	341.46	1900333.05	6270299.71
1656	20" CN CONNECTION	348.84	1900205.16	6270427.61

* SEE NOTE 1
 ** SEE NOTE 13

NOTE:

- COORDINATE SHUT DOWNS RUN RELOCATIONS WITH PLANT OPERATIONS AND THE MOPO PLAN. SEE SPECIFICATION 01 21 16.
- PHASING AND COORDINATION REQUIREMENTS: CONTRACTOR SHALL RELOCATE PRESSURE AND GRAVITY PIPING, MANHOLES, AND OTHER CONFLICTING APPURTENANCES INCLUDING CONSTRUCTION OF THE RS VAULTS, OUT OF THE TUNNEL SHAFT WORK ZONE, (BY OTHERS) TO ALLOW CONSTRUCTION OF THE TUNNEL. SEE SPECIFICATION 01 31 13 PROJECT COORDINATION.
- CONNECTION POINTS ARE THE LIMITS BETWEEN THIS CONTRACT AND WORK BY OTHERS.
- CONSTRUCTION OF THE TUNNEL AND TUNNEL SHAFT IS NIC AND A PART OF THE MORENA PUMP STATION PROJECT AND WILL BE CONSTRUCTED PRIOR TO COMMENCING FACILITY 16 IMPROVEMENTS AFTER UTILITY RELOCATIONS AND RS VAULT CONSTRUCTION IS COMPLETE.
- FOR SUR PIPING INFORMATION, SEE DWG CG-100.
- FOR ALL JOINTS ON 42" RS, PROVIDE SPECIAL THRUST TIE FOR STEEL PIPE. 4005-540A
- CONNECT TO EXISTING DUCTILE IRON PIPE WITH RESTRAINED MJ FITTING. PROVIDE CORROSION PROTECTION AS SPECIFIED.
- CONNECT TO EXISTING PVC PIPE WITH RESTRAINED MJ FITTING OR RESTRAINED COUPLING. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE CORROSION PROTECTION AS SPECIFIED.
- SHORING LOCATION SHOWN SCHEMATICALLY ONLY. EXCAVATION SUPPORT PLAN REQUIRED PER SPECIFICATION 31 41 00. FINAL LOCATIONS, EXTENT OF, AND DESIGN OF SHORING TO BE DETERMINED BY THE CONTRACTOR.
- INSTALL 2-WIRE TEST STATION WITH 2-ANODES PER DETAIL 1 ON SHEET CP-101.

- INSTALL 2-WIRE TEST STATION PER DETAIL 4 ON SHEET CP-101.
- INSTALL BURIED FLANGE ISOLATION KIT AT CONNECTION POINT PER DETAIL 2 ON SHEET CP-101.
- COORDINATE POINTS ARE FOR REFERENCE AND SHALL BE FIELD VERIFIED AT THE COMPLETION OF WORK BY OTHERS BEFORE MAKING THE FINAL CONNECTIONS OF RS AND BR/CN.
- SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.
- CONTRACTOR MAY TEMPORARILY RELOCATE UWHP DURING CONSTRUCTION OF MANHOLE PD 2-1A. PROVIDE ABOVE GROUND PIPING AS REQUIRED FOR TEMPORARY RELOCATION. SDR MAY BE TEMPORARILY TAKEN OUT OF SERVICE. CONTRACTOR SHALL PROVIDE PLUG AT UPSTREAM MANHOLE AND BYPASS PUMPING SYSTEM AROUND WORK AREA.

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

DIGITALLY SIGNED: 01/27/2021

REGISTERED PROFESSIONAL ENGINEER
 ANDREW DEMUTH
 CIVIL
 STATE OF CALIFORNIA

Scale In Feet: 0 6 12 18

PK2-Y-139

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

YARD PIPING ENLARGED PLAN

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC UTILITIES DEPARTMENT
 SHEET 175 OF 1169 SHEETS

APPROVED: *Andrew Demuth* DATE: 12/03/2020
 FOR CITY ENGINEER: *Andrew Demuth* DATE: 07/03/21
 PRINT DCE NAME: *Andrew Demuth* RCE#

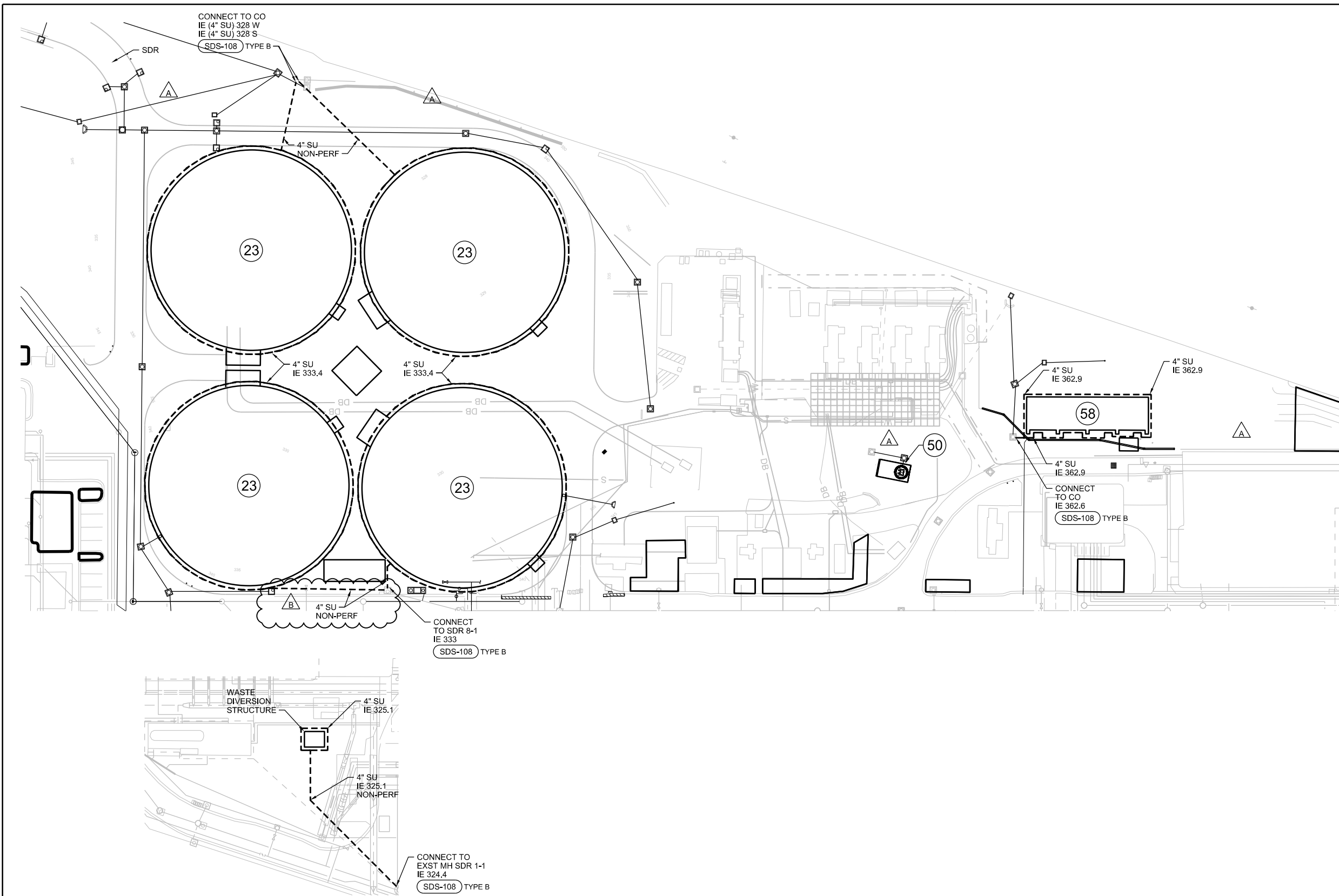
ISSUED BY: **MONIKA SMOczynski** PROJECT MANAGER
 CHECKED BY: **THIEN-LONG TRAN** PROJECT ENGINEER
 260-1709
 CCS27 COORDINATE
 1900-6269
 CCS83 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FIRM
Addendum B	CH	<i>Andrew Demuth</i>	2/3/21	

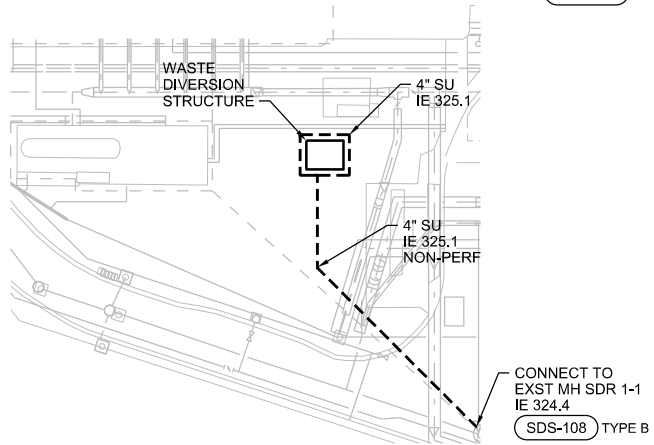
DATE STARTED: _____ DATE COMPLETED: _____

CONTRACTOR: _____ INSPECTOR: _____

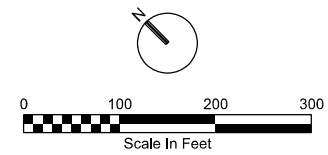
40381-2175-D



- NOTES:
1. ALL PERIMETER DRAIN ELEVATION ARE INVERT ELEVATIONS (IE).
 2. ALL PERIMETER DRAIN PIPE THAT IS ADJACENT TO STRUCTURE SHALL BE PERFORATED. ALL OTHER CONNECTING PERIMETER DRAIN PIPE SHALL BE NON-PERFORATED.
 3. NOT USED.
 4. FOR TYPICAL PERIMETER DRAIN DETAIL, SEE
 5. FOR CONSTRUCTION TO EXISTING 4" SU, CONNECT AS SPECIFIED.



PARTIAL PLAN



PK2-Y-141

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 2 - NORTH CITY WRP EXPANSION
**YARD PIPING
 PERIMETER DRAIN
 PLAN - AREA 1**

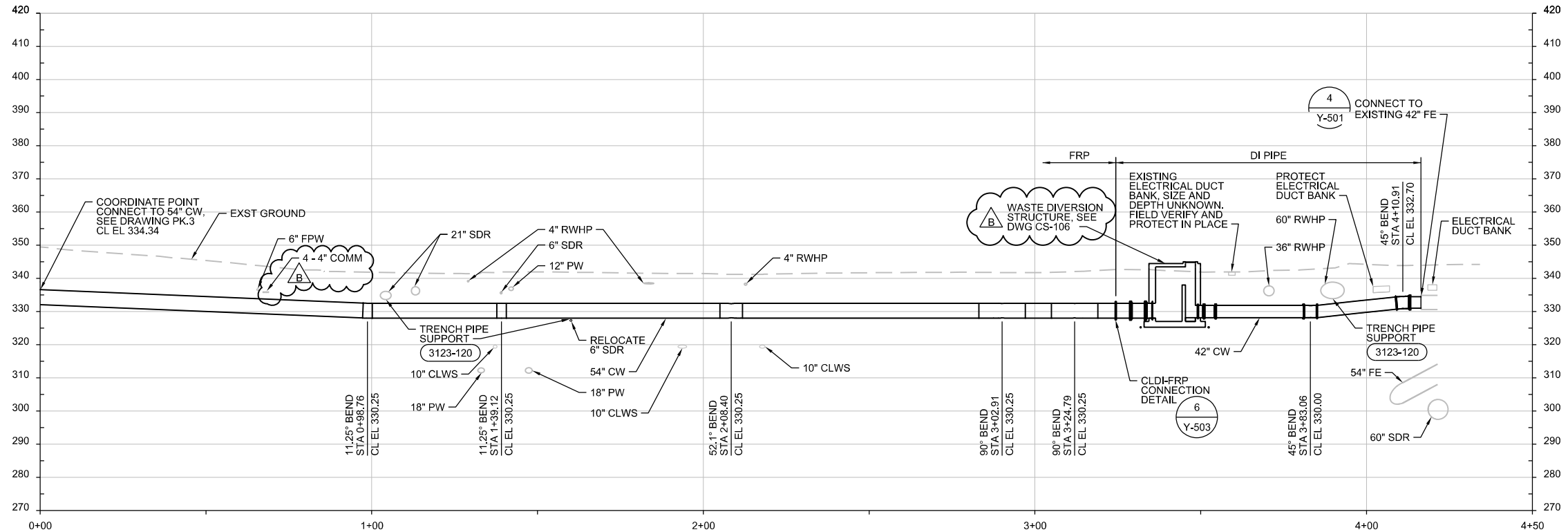
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 177 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142		
APPROVED: FOR CITY ENGINEER PRINT DCE NAME: Matthew John Baldwin DATE: 12/03/2020 RCE#: C70321	CHECKED BY: PROJECT ENGINEER DATE: 1/15/21 FILM: 260-1709 CCS27 COORDINATE: 1900-6269 CCS83 COORDINATE: 40381-2177-D	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER		
DESCRIPTION	BY	APPROVED	DATE	FILM
▲ Addendum A	CH		1/15/21	
▲ Addendum B	CH		2/3/21	
CONTRACTOR		DATE STARTED		INSPECTOR
		DATE COMPLETED		

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
 MATTHEW JOHN BALDWIN
 CIVIL
 STATE OF CALIFORNIA
 C 7181
 DIGITALLY SIGNED: 01/27/2021

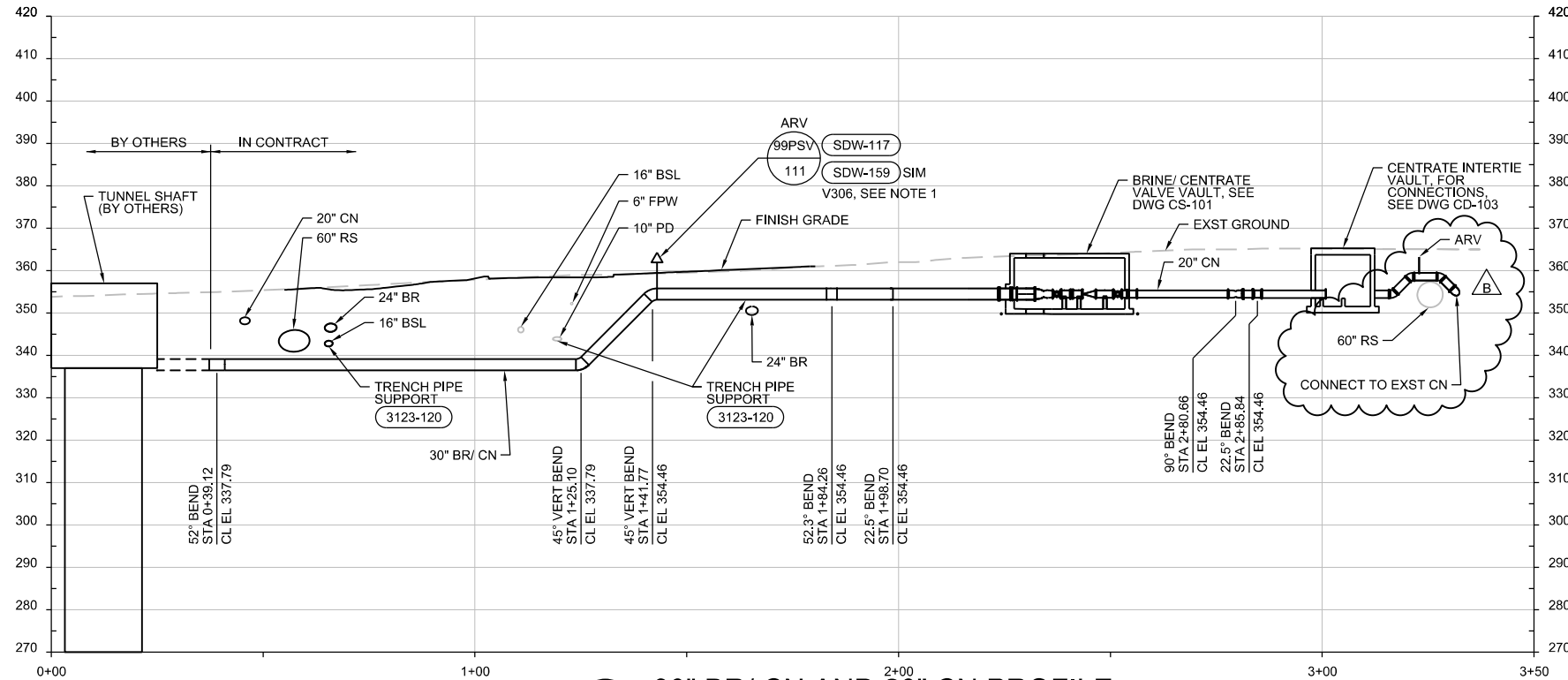
WARNING

 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



(A) 54" CW AND 42" CW PROFILE

H: 1"=20'-0"
V: 1"=20'-0"
Y-111
Y-115



(B) 30" BR/CN AND 20" CN PROFILE

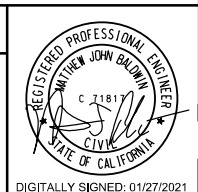
H: 1"=20'-0"
V: 1"=20'-0"
Y-116

NOTES:

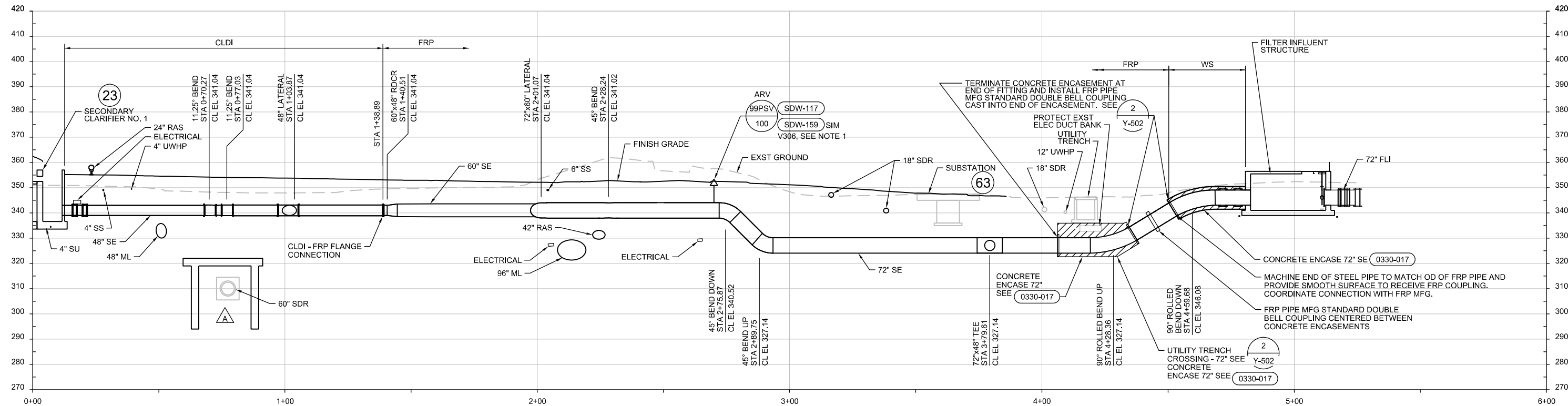
- REPLACE ALL COPPER AND BRONZE PIPING COMPONENTS SHOWN IN DETAIL SDW-159 WITH EQUIVALENT STAINLESS STEEL COMPONENTS SUCH THAT ALL SURFACES IN CONTACT WITH LIQUID FROM THE PIPE ARE STAINLESS STEEL.

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

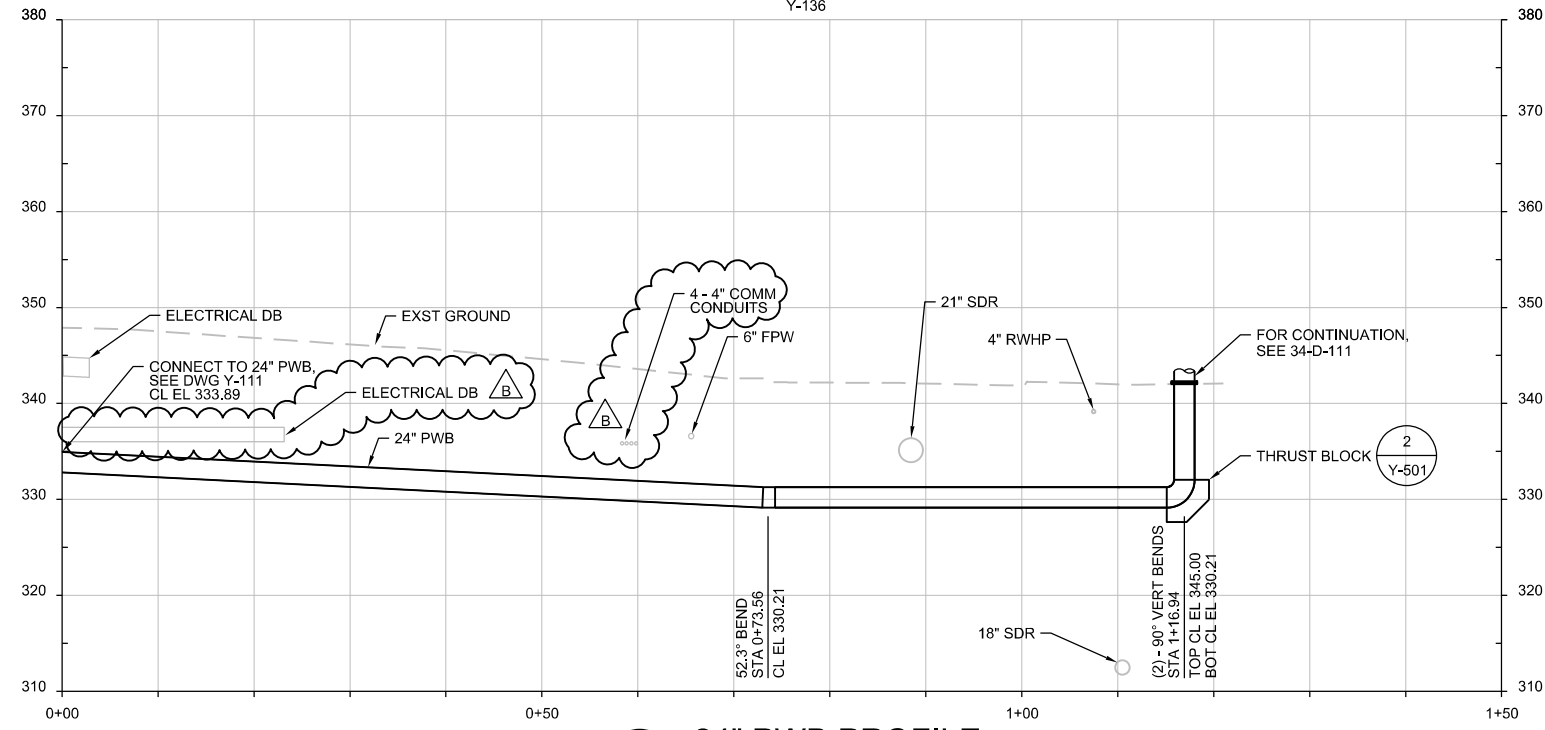
CONSULTANT



PK2-Y-302		B-16149, S-17012 WBS B-15142	
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION CIVIL YARD PIPING PROFILE			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 181 OF 1169 SHEETS		APPROVED BY: <i>[Signature]</i> DATE: 12/03/2020 FOR CITY ENGINEER: Andrea Diemich DATE: C70321 PRINT DCE NAME: RCE#	
SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER		CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER	
DESCRIPTION	BY	APPROVED	DATE
Addendum B	CH	<i>[Signature]</i>	2/3/21
260-1709		1900-6269	
DATE STARTED		DATE COMPLETED	
CONTRACTOR		INSPECTOR	
40381-2181-D			



A 48" AND 72" SE PROFILE
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-106
 Y-111
 Y-112
 Y-135
 Y-136



B 24" PWB PROFILE
 H: 1"=10'-0"
 V: 1"=10'-0"
 Y-111
 Y-115

NOTES:

- REPLACE ALL COPPER AND BRONZE PIPING COMPONENTS SHOWN IN DETAIL SDW-159 WITH EQUIVALENT STAINLESS STEEL COMPONENTS SUCH THAT ALL SURFACES IN CONTACT WITH LIQUID FROM THE PIPE ARE STAINLESS STEEL.
- CONTRACTOR TO PROVIDE A LARGE DIAMETER PIPE INSTALLATION PLAN FOR 48" AND 72" SE. SEE SPECIFICATION SECTION 33 05 01.



CONSULTANT

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DIGITALLY SIGNED: 01/27/2021

PK2-Y-303

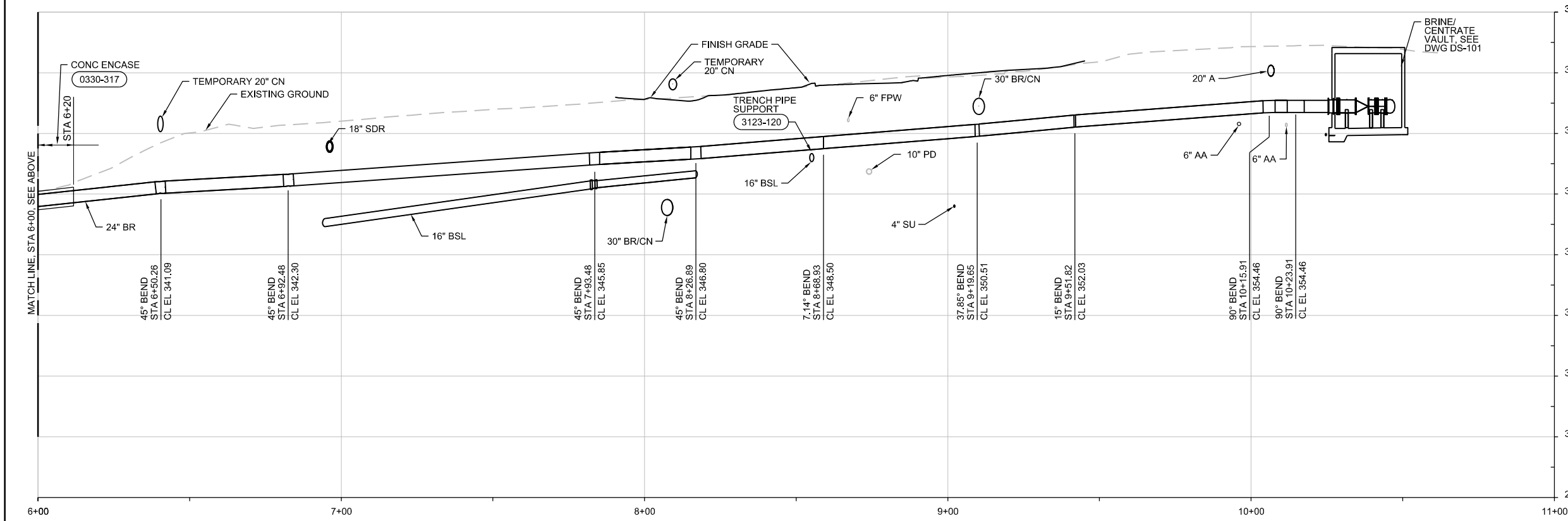
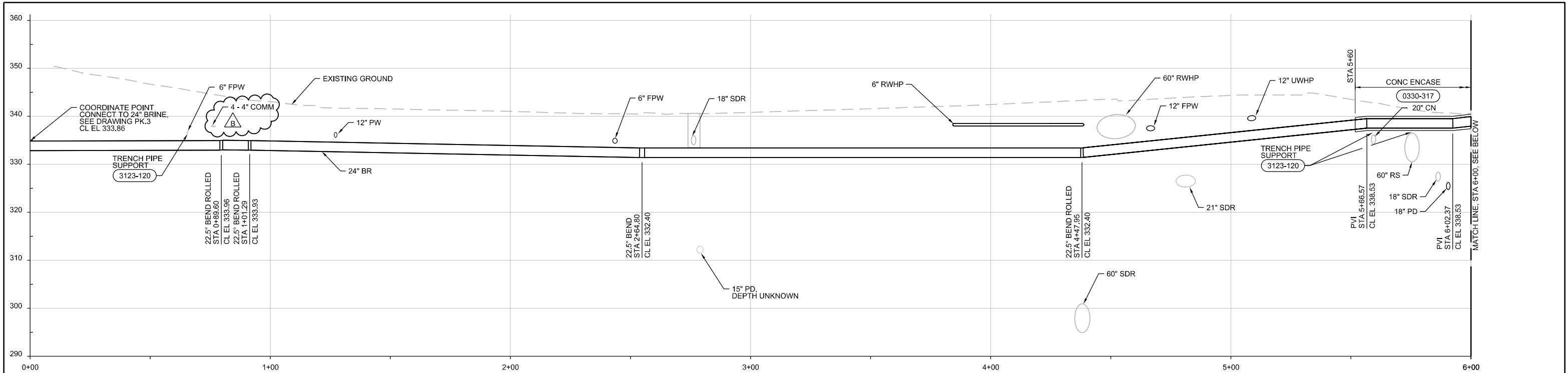
NCRWP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
YARD PIPING PROFILE

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC UTILITIES DEPARTMENT
 SHEET 182 OF 1169 SHEETS

APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C70321	PROJECT NO: B-16149, S-17012 WBS: B-15142		
PROJECT MANAGER: MONIKA SMOCZYNSKI	PROJECT ENGINEER: THIEN-LONG TRAN			
DESCRIPTION	BY	APPROVED	DATE	FIRM
Addendum A	CH	<i>[Signature]</i>	1/15/21	260-1709
Addendum B	CH	<i>[Signature]</i>	2/3/21	1900-6269
DATE STARTED: _____ DATE COMPLETED: _____				

CONTRACTOR: _____ INSPECTOR: _____

40381-2182-D



A 24" BR PROFILE

H: 1"=20'-0"
V: 1"=10'-0"

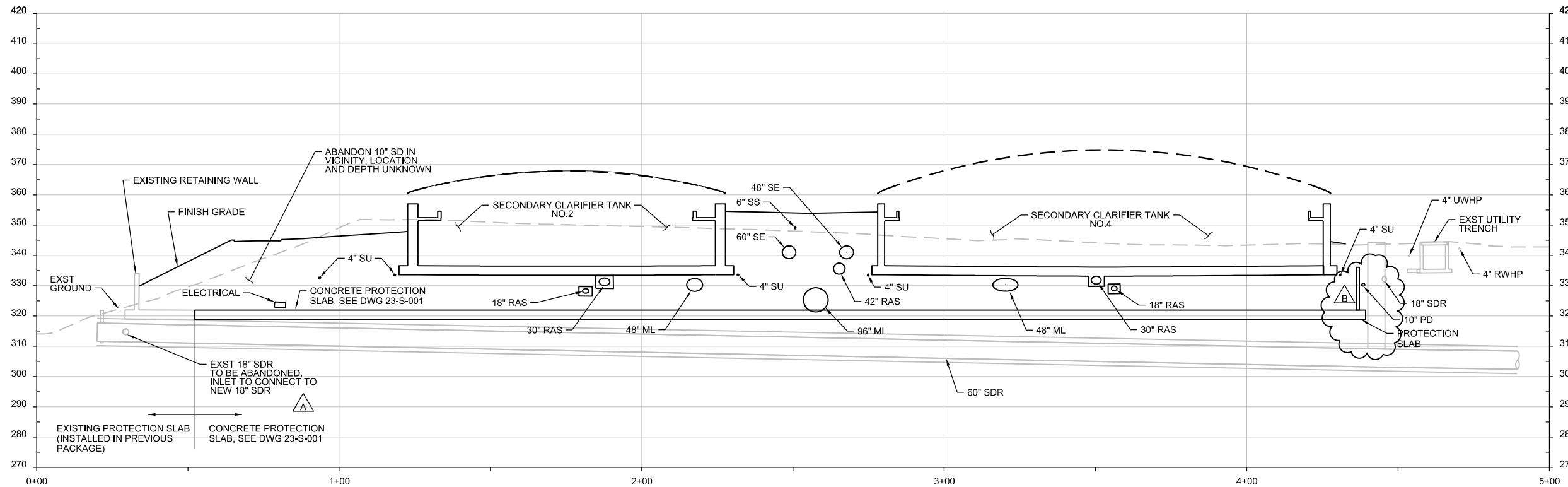
Y-111
Y-115
Y-116

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

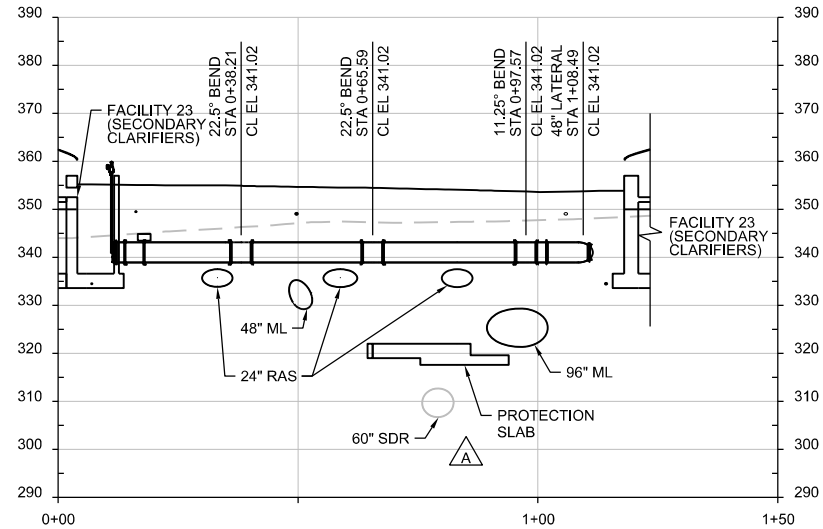
CONSULTANT

DIGITALLY SIGNED: 01/27/2021

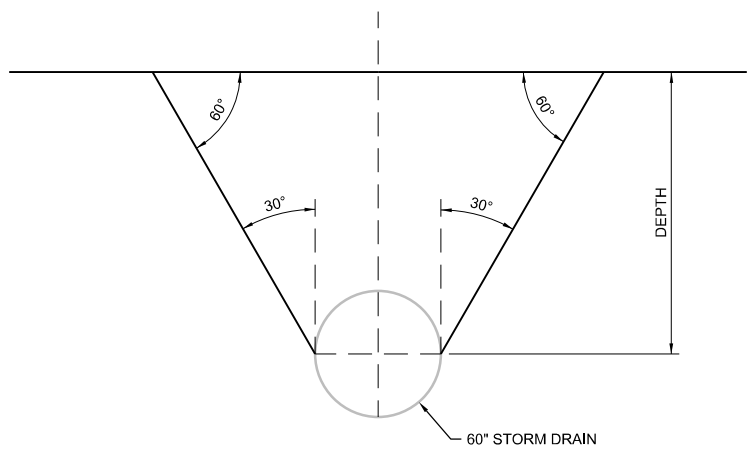
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NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION	
CIVIL	
YARD PIPING PROFILE	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 183 OF 1169 SHEETS	B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER
DESCRIPTION: Addendum B	BY: CH
APPROVED: <i>[Signature]</i>	DATE: 2/3/21
DATE STARTED:	DATE COMPLETED:
1900-6269	40381-2183-D



A EXST 60" SDR PROFILE
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-106
 Y-111
 Y-102
 Y-136



B 48" SE PROFILE
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-136

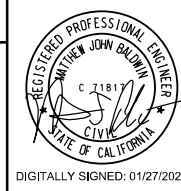


NOTE:
 1. INFLUENCE AREA = AREA AT SURFACE FROM OUTSIDE EXTERIOR EDGE AT SPRINGLINE TO THE 60" STORM DRAIN, DRAW A LINE UPWARD AND OUTWARD AT 30° ANGLE FROM VERTICAL.

1 HEAVY EQUIPMENT RESTRICTED AREA
 NTS
 Y-106

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

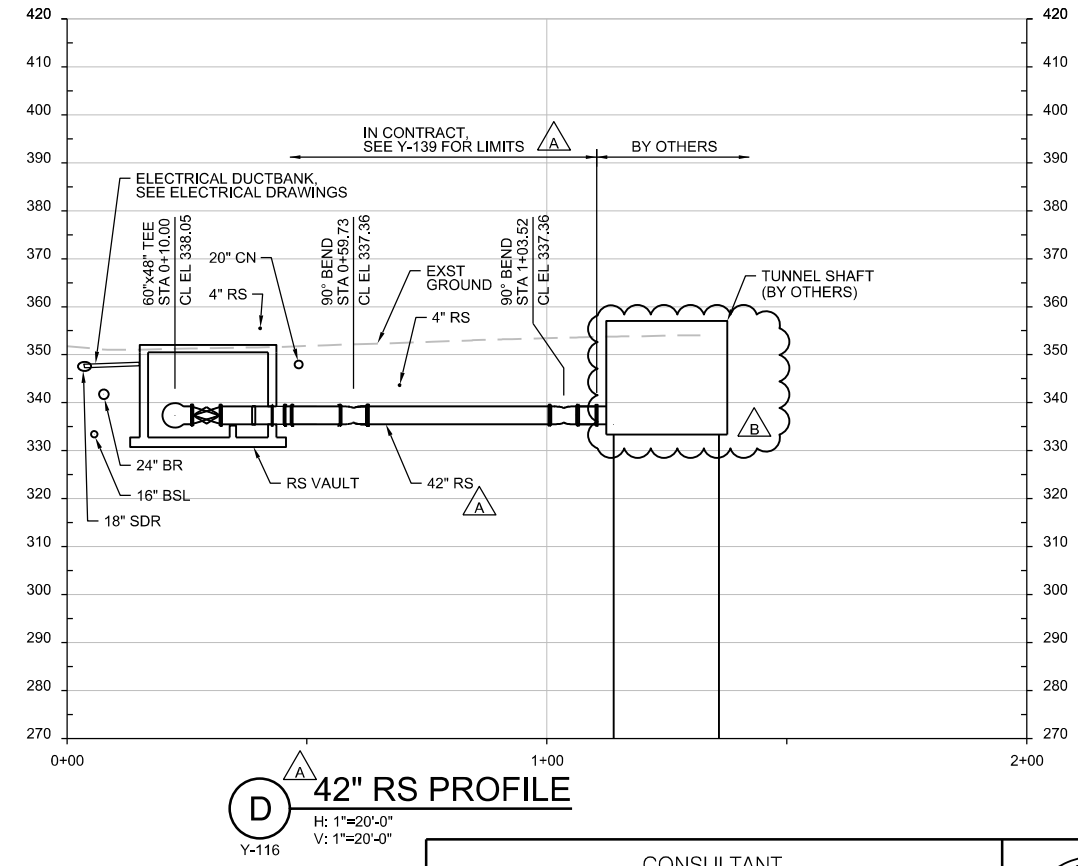
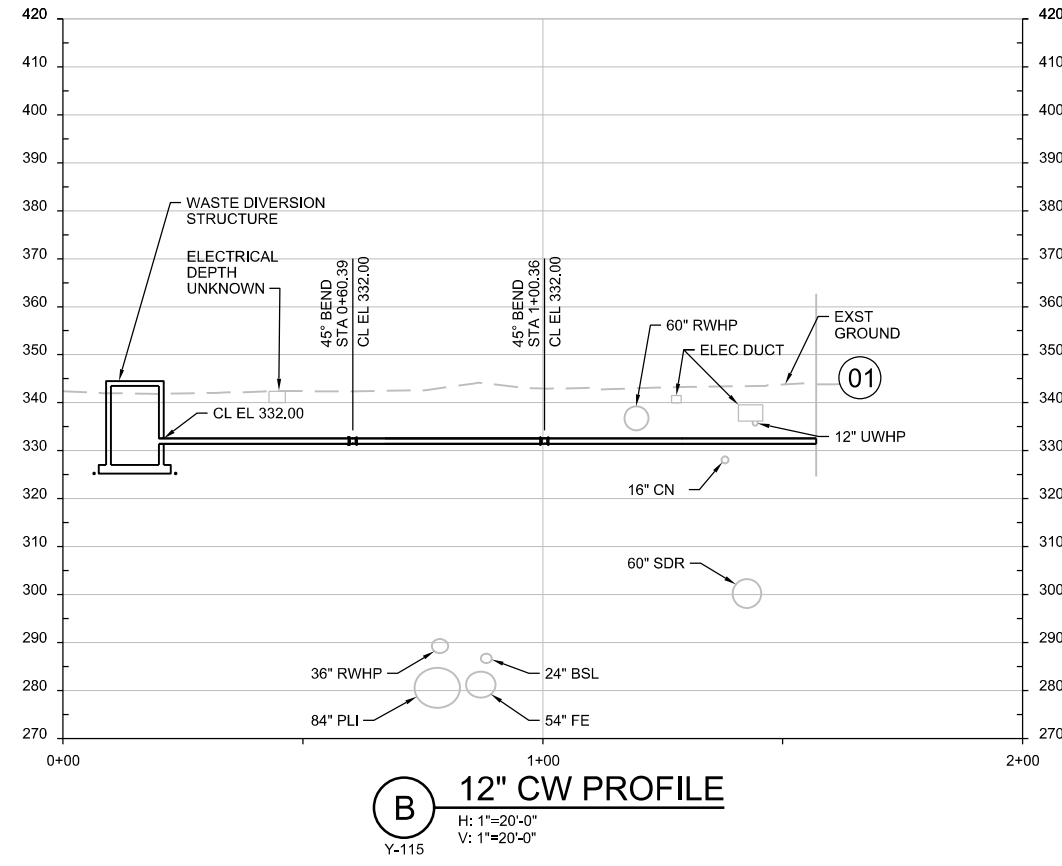
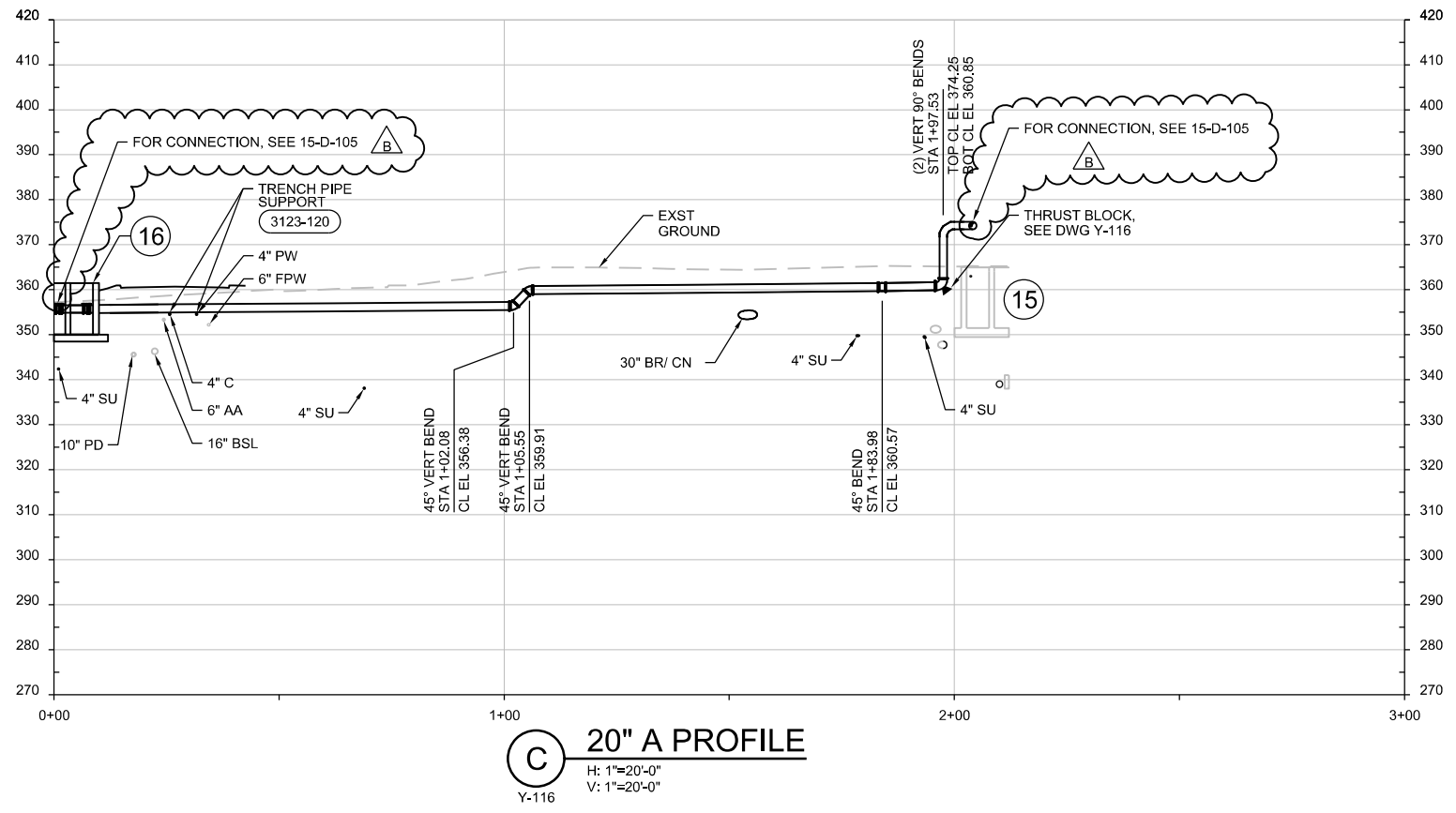
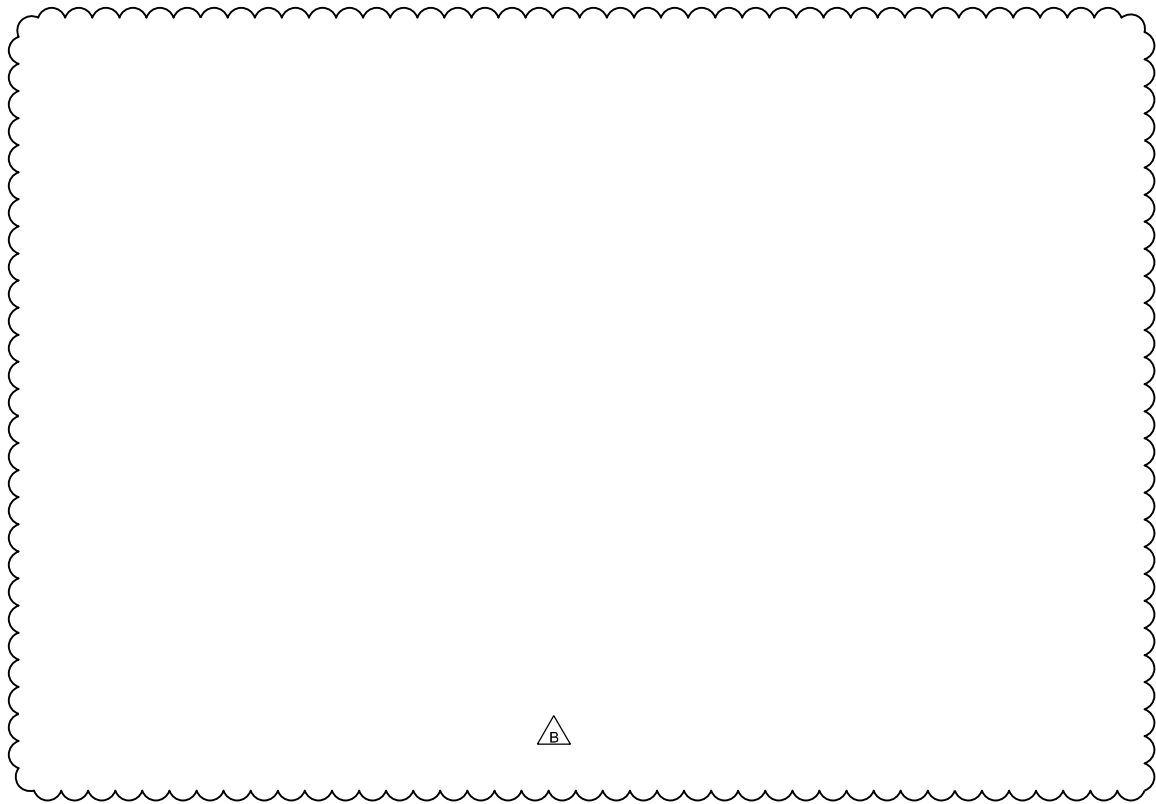
CONSULTANT



DIGITALLY SIGNED: 01/27/2021

CONTRACTOR _____
 INSPECTOR _____

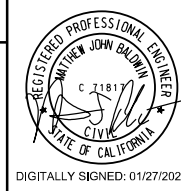
PK2-Y-305		CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 184 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142	
NCRWP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION CIVIL YARD PIPING PROFILE		APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich DATE: 12/03/2020 RCE#: C70321		SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER	
DESCRIPTION	BY	APPROVED	DATE	FILM	
▲ Addendum A	CH	<i>[Signature]</i>	1/15/21		260-1709
▲ Addendum B	CH	<i>[Signature]</i>	2/3/21		1900-6269
					CCS27 COORDINATE
					CCS83 COORDINATE
					40381-2184-D



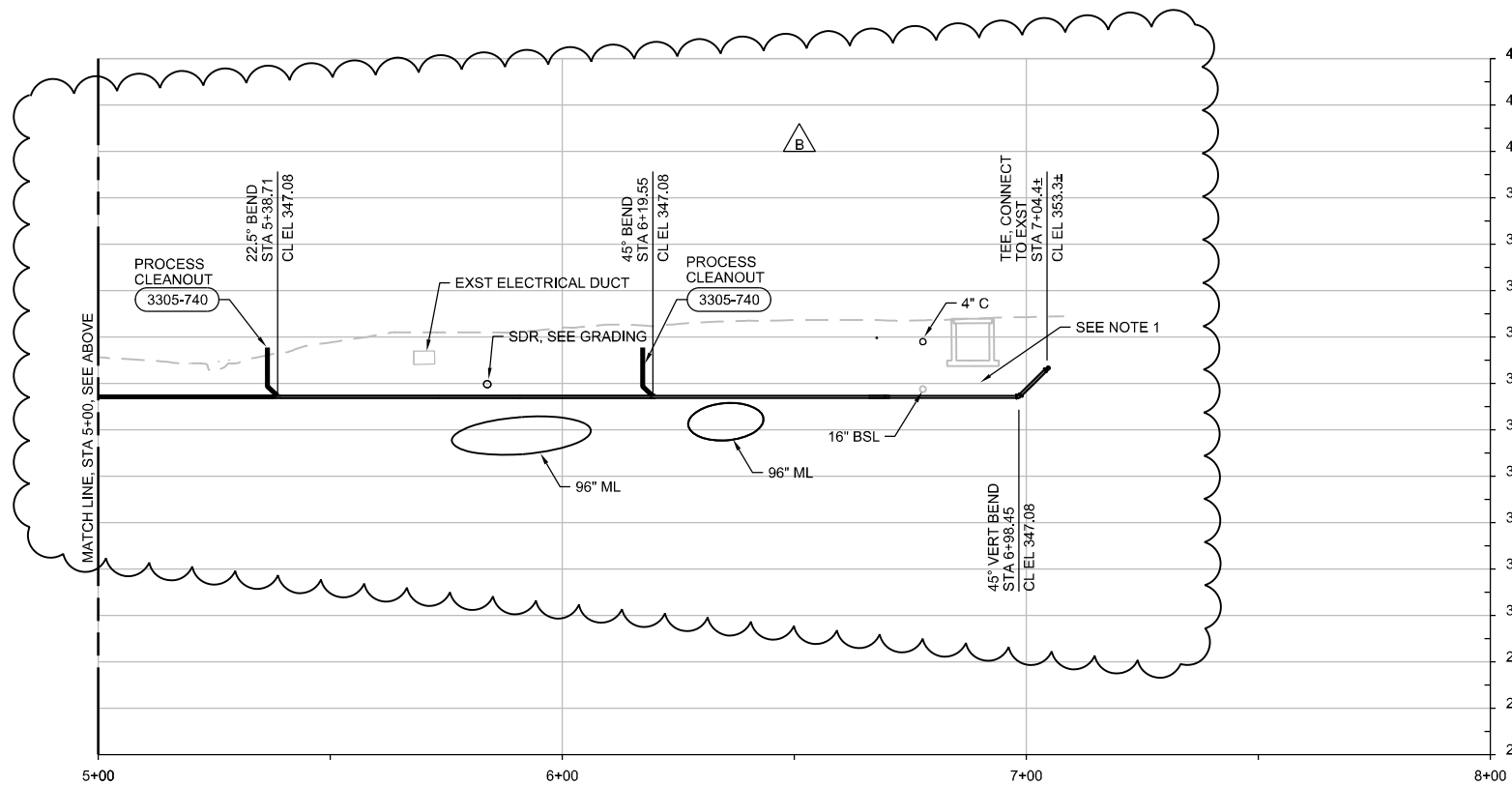
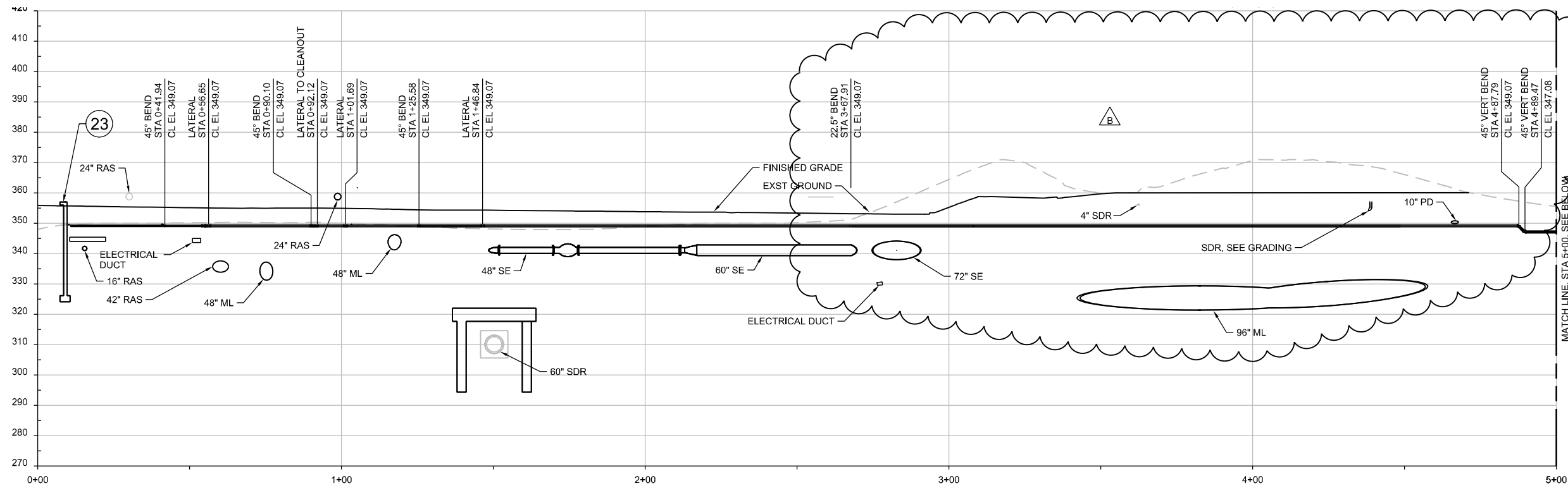
NOTE:
 1. CONTRACTOR TO PROVIDE A LARGE DIAMETER PIPE INSTALLATION PLAN FOR 42" RS, SEE SPECIFICATION SECTION 33 05 01.

PK2-Y-307																
NCRWP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION CIVIL YARD PIPING PROFILE																
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 186 OF 1169 SHEETS	B-16149, S-17012 WBS B-15142															
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: <i>[Name]</i>	DATE: 12/03/2020 C70321 RCE#															
SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER															
<table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> <th>FIRM</th> </tr> </thead> <tbody> <tr> <td>▲ Addendum A</td> <td>CH</td> <td><i>[Signature]</i></td> <td>1/15/21</td> <td>260-1709</td> </tr> <tr> <td>▲ Addendum B</td> <td>CH</td> <td><i>[Signature]</i></td> <td>2/3/21</td> <td>1900-6269</td> </tr> </tbody> </table>	DESCRIPTION	BY	APPROVED	DATE	FIRM	▲ Addendum A	CH	<i>[Signature]</i>	1/15/21	260-1709	▲ Addendum B	CH	<i>[Signature]</i>	2/3/21	1900-6269	CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
DESCRIPTION	BY	APPROVED	DATE	FIRM												
▲ Addendum A	CH	<i>[Signature]</i>	1/15/21	260-1709												
▲ Addendum B	CH	<i>[Signature]</i>	2/3/21	1900-6269												
CONTRACTOR INSPECTOR	DATE STARTED DATE COMPLETED															

WARNING
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



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A 6" SS PROFILE
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-107
 Y-112
 Y-106
 Y-136

NOTE:
 1. EMBED AND BACKFILL 6" SS UNDER UTILITY TRENCH WITH CLSM.

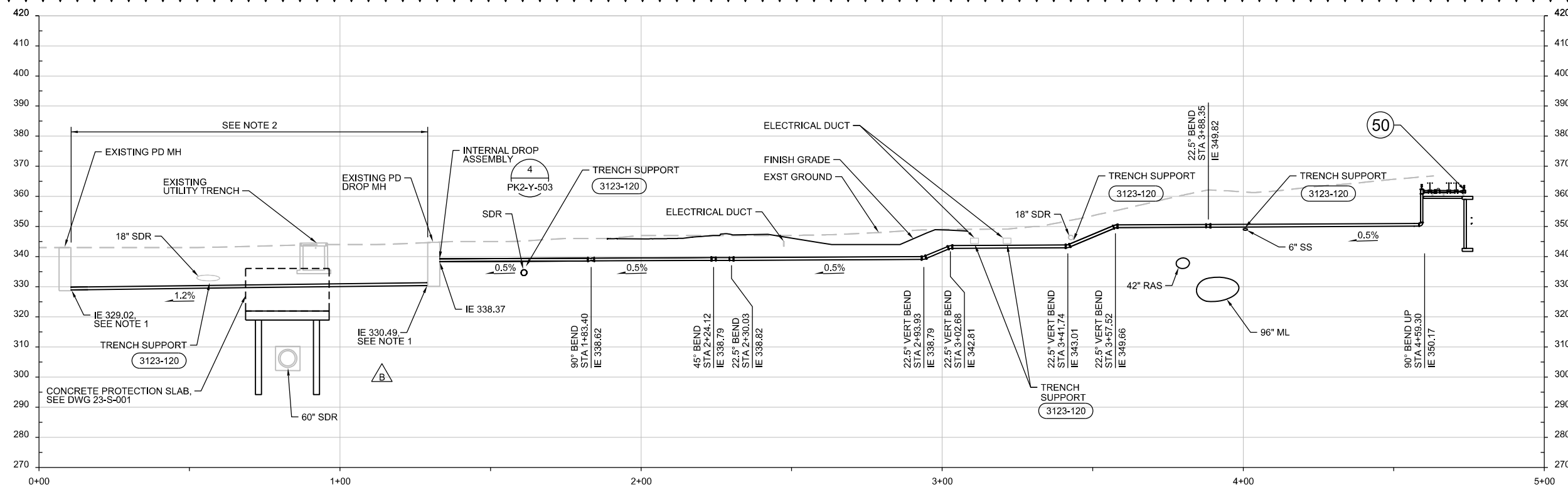
WARNING
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

DIGITALLY SIGNED: 01/27/2021

PK2-Y-308	
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION CIVIL YARD PIPING PROFILE	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 187 OF 1169 SHEETS	WBS B-16149, S-17012 B-15142
APPROVED: <i>John Smith</i> FOR CITY ENGINEER PRINT DCE NAME: Andrew Demich DATE: 12/03/2020 C70321 RCE#	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER PROJECT ENGINEER: THIEN-LONG TRAN 260-1709 CCS27 COORDINATE: 1900-6269 CCS33 COORDINATE: 40381-2187-D
DESCRIPTION: Addendum B	BY: CH
APPROVED: <i>John Smith</i>	DATE: 2/3/21
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED



A 10" PD PROFILE
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-106
 Y-107
 Y-111

- NOTES:**
- FOR PIPE CONNECTION, SEE (3305-730).
 - REMOVE EXISTING SEGMENT OF 6" PD BETWEEN MANHOLES AND CAP ENDS AT EACH MANHOLE TO ALLOW FOR INSTALLATION OF CONCRETE PROTECTION SLAB. CONTRACTOR TO INSTALL 10" PD BETWEEN MANHOLES FOLLOWING CONCRETE PROTECTION SLAB INSTALLATION.

PK2-Y-309

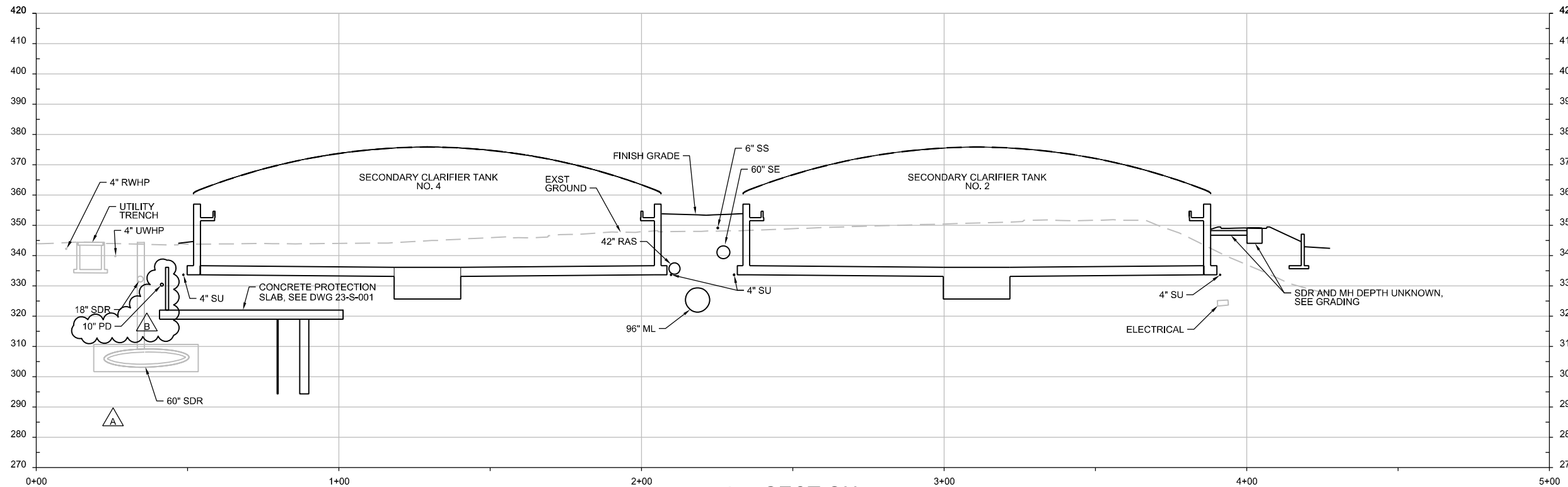
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION CIVIL YARD PIPING PROFILE											
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 187a OF 1169 SHEETS	B-16149, S-17012 WBS B-15142										
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER: <i>[Signature]</i> PRINT DCE NAME: <i>[Signature]</i>	DATE: 12/03/2020 DATE: 07/03/21 RCE#:										
SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER										
<table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> <th>FIRM</th> </tr> </thead> <tbody> <tr> <td>Addendum B</td> <td>CH</td> <td><i>[Signature]</i></td> <td>2/3/21</td> <td></td> </tr> </tbody> </table>	DESCRIPTION	BY	APPROVED	DATE	FIRM	Addendum B	CH	<i>[Signature]</i>	2/3/21		260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
DESCRIPTION	BY	APPROVED	DATE	FIRM							
Addendum B	CH	<i>[Signature]</i>	2/3/21								
CONTRACTOR: _____ INSPECTOR: _____	DATE STARTED: _____ DATE COMPLETED: _____										
40381-2187A-D											

CONSULTANT

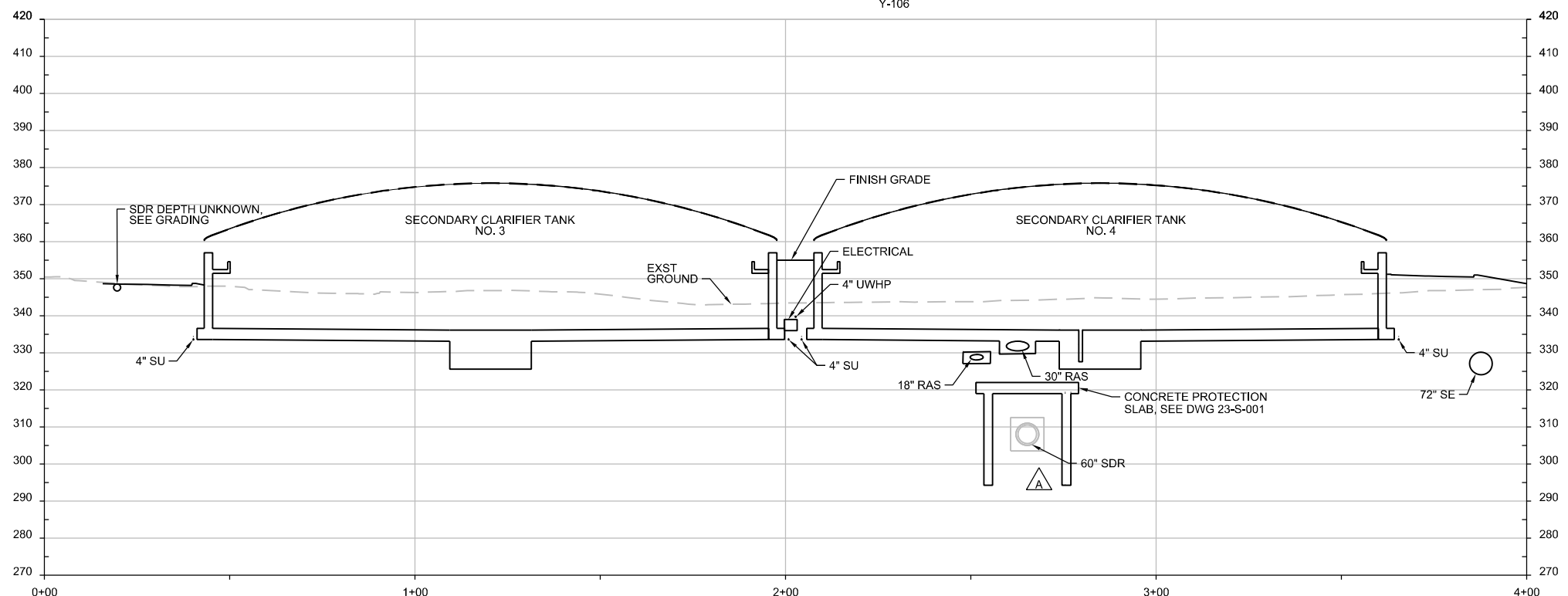
ch2mSM

REGISTERED PROFESSIONAL ENGINEER
 MATTHEW JOHN BALDWIN
 CIVIL
 STATE OF CALIFORNIA
 C 7181
 DIGITALLY SIGNED: 01/27/2021

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

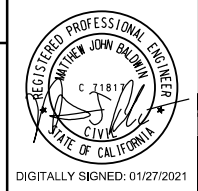


A SECTION
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-111
 Y-106



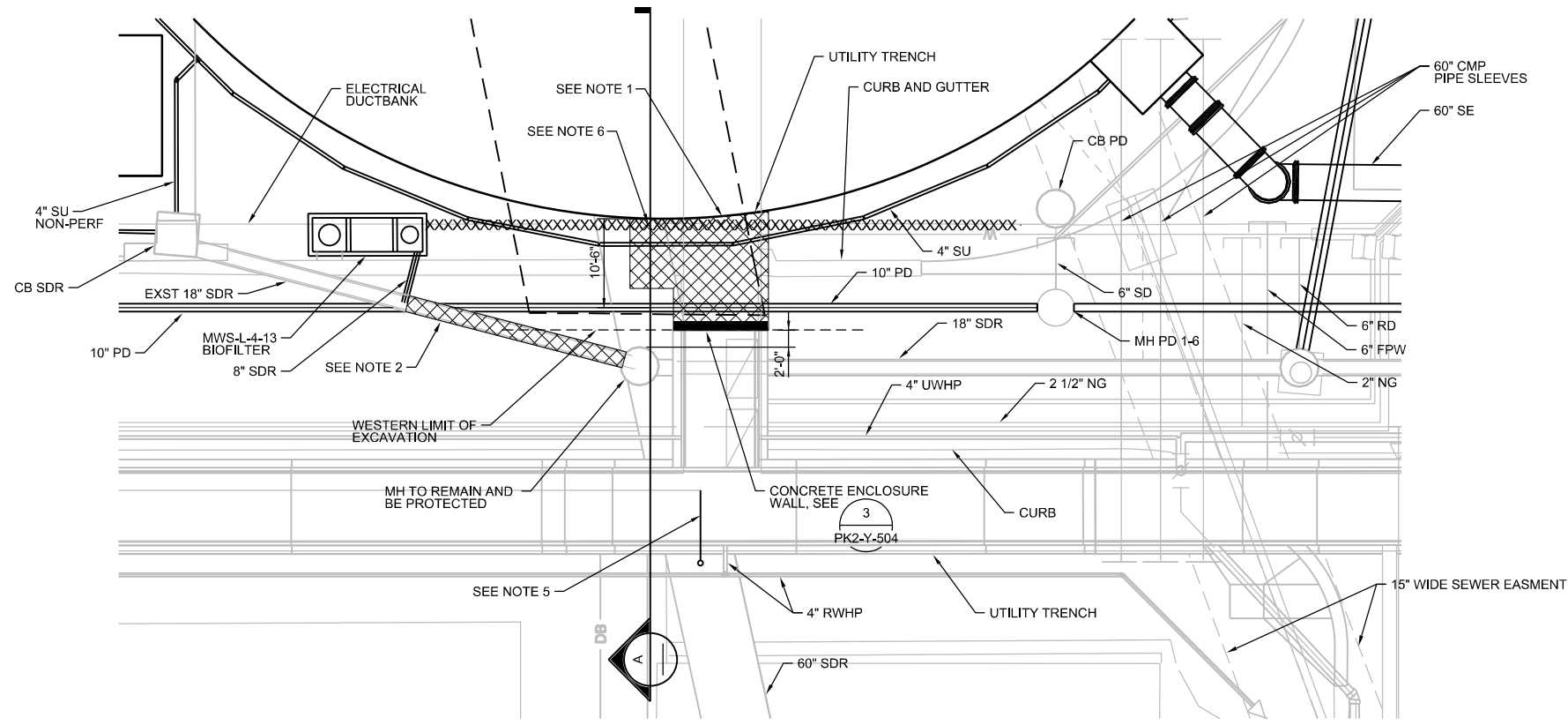
B SECTION
 H: 1"=20'-0"
 V: 1"=20'-0"
 Y-106


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 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



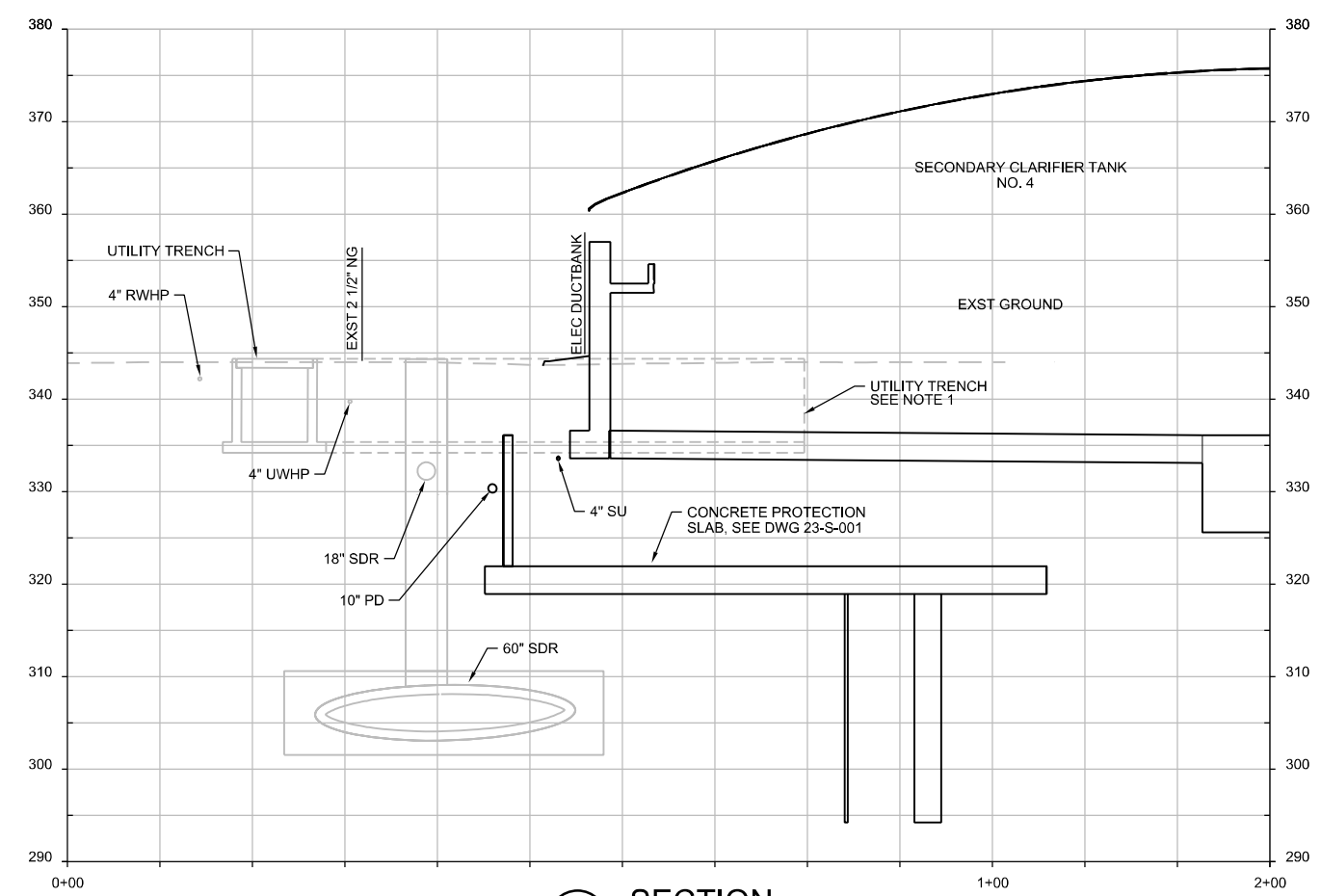
DIGITALLY SIGNED: 01/27/2021

PK2-Y-353				
NCRWP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION CIVIL				
SECONDARY CLARIFIER SECTIONS				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 190 OF 1169 SHEETS	B-16149, S-17012 WBS B-15142			
APPROVED: <i>Matthew Baldwin</i> FOR CITY ENGINEER PRINT DCE NAME: Matthew Baldwin DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER THIEN-LONG TRAN PROJECT ENGINEER			
DESCRIPTION	BY	APPROVED	DATE	FIRM
▲ Addendum A	CH	<i>Matthew Baldwin</i>	1/15/21	260-1709
▲ Addendum B	CH	<i>Matthew Baldwin</i>	2/3/21	CCS27 COORDINATE 1900-6269 CCS33 COORDINATE
CONTRACTOR				DATE STARTED
INSPECTOR				DATE COMPLETED
40381-2190-D				




- NOTE:
1. DEMOLISH THE UTILITY TRENCH TO AFTER THE FIRST PANEL POINT FROM THE EAST SIDE OF THE ROAD. CUT PIPES INSIDE AND CAP 2 FEET INTO ROAD FROM CURB. PROVIDE CONCRETE ENCLOSURE WALL TO PREVENT SOIL FROM ENTERING TRENCH, SEE 
 2. CONTRACTOR TO DEMOLISH 18" SDR AS NEEDED FOR THE PILE CAP INSTALL UNTIL NEAREST JOINT THAT DOES NOT EXTEND FURTHER THEN THE NEW 8" SDR CONNECTION. CONTRACTOR RESPONSIBLE FOR TEMPORARY STORMWATER RUNOFF.
 3. DEMOLITION SHALL BE IN ACCORDANCE WITH SECTION 306 OF THE WHITE BOOK AND GREEN BOOK.
 4. SEE PK2-CX-111 FOR CURB AND GUTTER DEMOLITION.
 5. CONNECT TO EXISTING 4" SVT. ROUTE PIPE INSIDE UTILITY TRENCH TO WEST WALL OF THE MAIN UTILITY TRENCH. INSTALL PIPE THROUGH CORED HOLE AND SEAL WITH NONSHRINK GROUT. PROVIDE STAND PIPE EXTENDING 3' ABOVE GRADE AND VENT CAP.
 6. DEENERGIZE POWER CIRCUITS. DISCONNECT AND REMOVE CONDUCTORS FROM CONDUIT ACROSS EXCAVATION, COIL AND PROTECT CONDUCTORS FOR REUSE LATER. DEMOLISH CONDUITS WHERE NEEDED AND REROUTE NEW DIRECT BURIED 1" CONDUITS TO RECONNECT THE RACEWAYS AFTER PILE CAP WALL CONSTRUCTION. INSTALL COILED CONDUCTORS TO RECONNECT THE CIRCUITS. REENERGIZE AND TEST.

 **ENLARGED PLAN**
1"=10'



A SECTION
1"=10'

NEW DRAWING 

PK2-Y-356

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION


YARD PIPING ENLARGED PLAN AND SECTION

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 192A OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED:  FOR CITY ENGINEER	DATE: 12/03/2020 C/70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME:  ANDREA DIEMICH	RCE#	PROJECT ENG: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
 Addendum B	CH	
		DATE
		2/3/21
		FIRM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS33 COORDINATE
		40381-2192A-D

WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

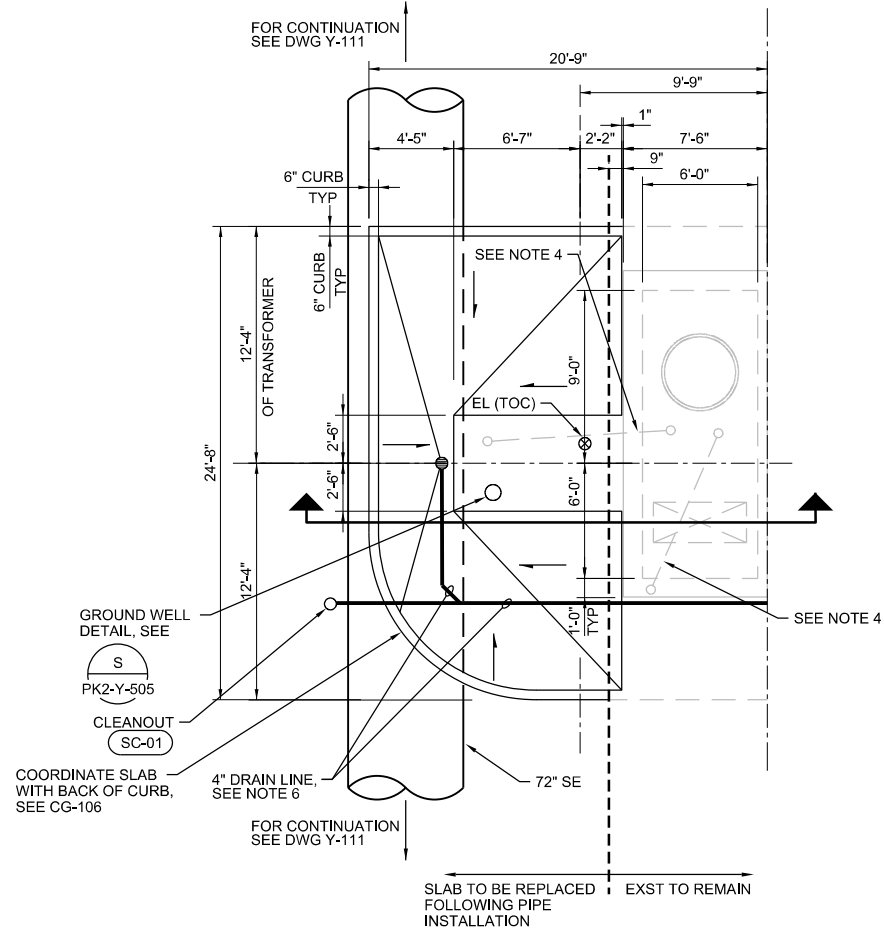
CONSULTANT



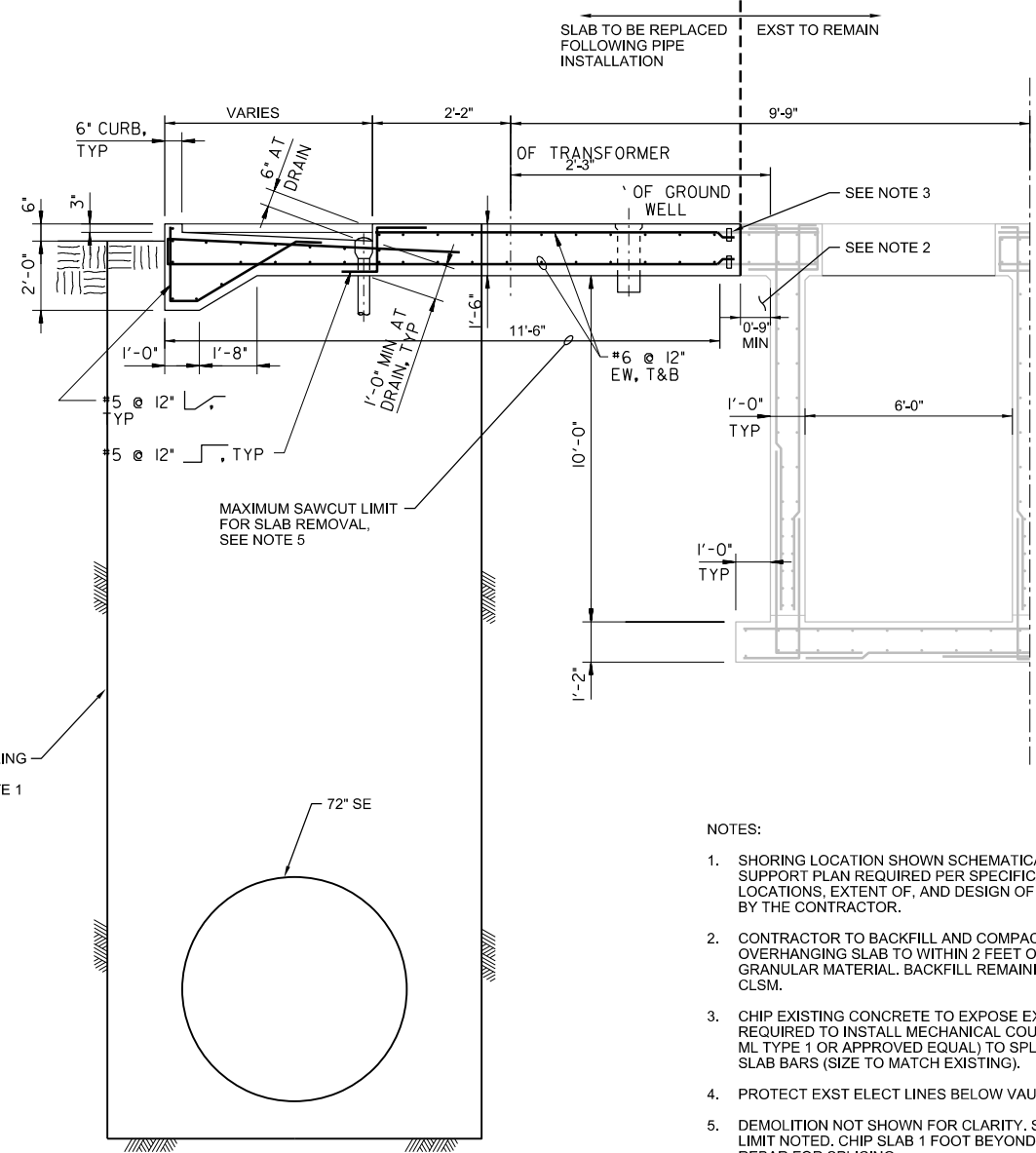

DIGITALLY SIGNED: 01/27/2021

CONTRACTOR
INSPECTOR

DATE STARTED
DATE COMPLETED

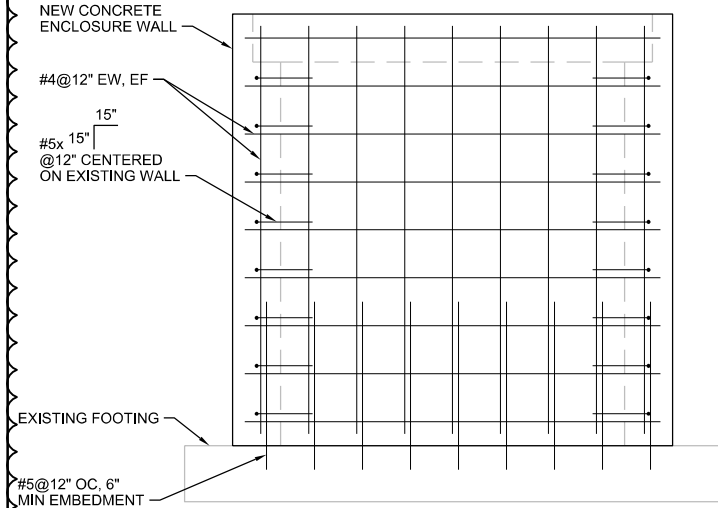


FACILITY 63 STRUCTURAL PLAN
1"=5'-0"

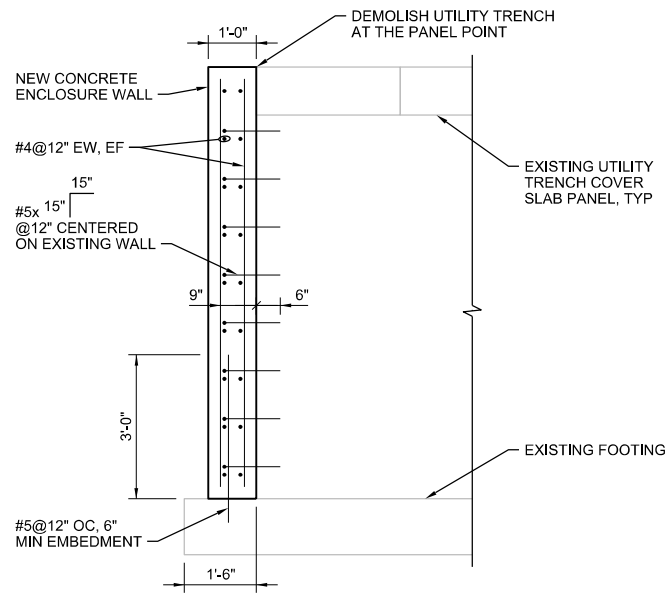


- NOTES:
- SHORING LOCATION SHOWN SCHEMATICALLY ONLY. EXCAVATION SUPPORT PLAN REQUIRED PER SPECIFICATION 31 41 00. FINAL LOCATIONS, EXTENT OF, AND DESIGN OF SHORING TO BE DETERMINED BY THE CONTRACTOR.
 - CONTRACTOR TO BACKFILL AND COMPACT TRENCH UNDER OVERHANGING SLAB TO WITHIN 2 FEET OF BOTTOM OF SLAB WITH GRANULAR MATERIAL. BACKFILL REMAINING VOID UNDER FOOTING WITH CLSM.
 - CHIP EXISTING CONCRETE TO EXPOSE EXISTING SLAB REINFORCING AS REQUIRED TO INSTALL MECHANICAL COUPLER (LENTON QUICK WEDGE ML TYPE 1 OR APPROVED EQUAL) TO SPLICE NEW TOP AND BOTTOM SLAB BARS (SIZE TO MATCH EXISTING).
 - PROTECT EXST ELECT LINES BELOW VAULT.
 - DEMOLITION NOT SHOWN FOR CLARITY. SAW CUT AND DEMO SLAB TO LIMIT NOTED. CHIP SLAB 1 FOOT BEYOND CUT LIMIT AND EXPOSE EXST REBAR FOR SPLICING.
 - REPLACE 4-INCH DRAIN LINE AND DRAIN COVER. MATCH MATERIAL TYPE.

FACILITY 63 STRUCTURAL SECTION
NTS



ELEVATION



SECTION

3 DETAIL
1/2"=1'-0"

PK2-CY-356

WARNING

0 1

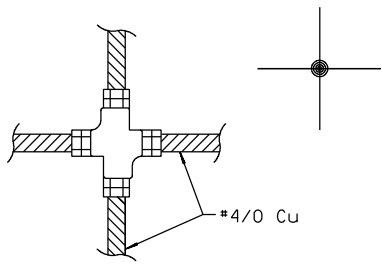
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CONSULTANT

ch2mSM

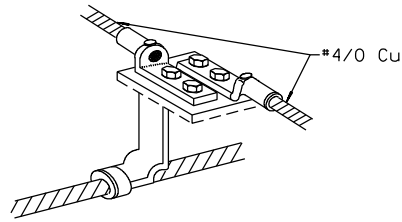


PK2-Y-504		NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION	
STRUCTURAL		DETAILS	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 195A OF 1169 SHEETS		B-16149, S-17012 WBS B-15142	
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER	
DESCRIPTION: Addendum B	BY: CH	APPROVED: <i>Andrea Demich</i>	DATE: 2/3/21
CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER		260-1709 CCS27 COORDINATE	
CONTRACTOR: _____		1900-6269 CCS83 COORDINATE	
INSPECTOR: _____		DATE STARTED: _____ DATE COMPLETED: _____	
		40381-2195A-D	



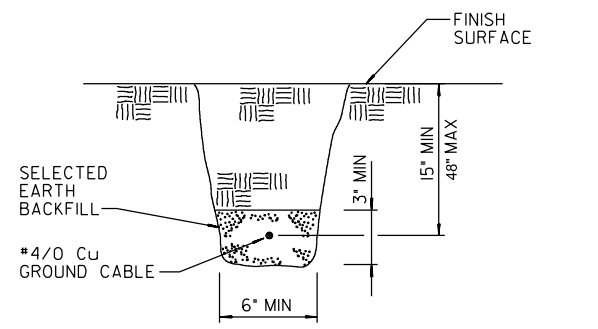
COMPRESSION GROUND GRID CONNECTOR CABLE TO CABLE CROSS CONNECTION

DETAIL A
CH2M



FLUSH GROUNDING CONNECTION

DETAIL E
CH2M

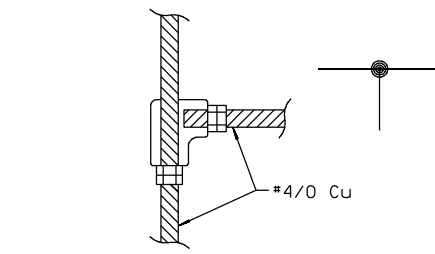


DETAIL I
CH2M

GROUNDING LEGEND

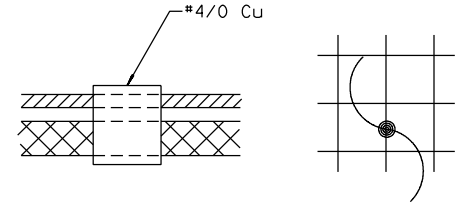
- GROUND ROD AND WELL
- #4/0 GROUND WIRE, 7 STRAND, BARE, SOFT DRAW
- COMPRESSION CABLE-TO-CABLE CROSS CONNECTION
- COMPRESSION CABLE TEE CROSS CONNECTION
- COMPRESSION CABLE-TO-GROUND ROD CROSS CONNECTION
- COMPRESSION CABLE-TO-TOP OF GROUND ROD
- COMPRESSION CABLE-TO-REBAR CONNECTION
- 3/4" x 10'-0" COPPER/COPPERWELD GROUND ROD PER SPECIFICATIONS
- EQUIPMENT GROUND PAD
P = PAD
N = NEUTRAL
GB = GROUND BUS

- NOTES:
- ALL EXPOSED BARE COPPER, WIRE, LUGS, ETC. SHALL BE TIN-PLATED.
 - CONNECT TO EXISTING GROUND GRID AND SLOPE TO MAXIMUM DEPTH AT SLAB LIMIT.



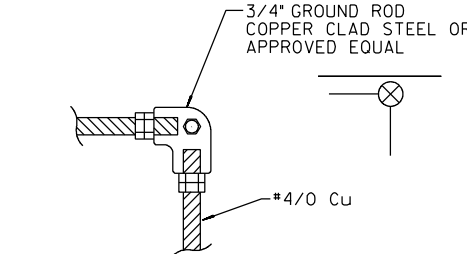
COMPRESSION GROUND GRID CONNECTOR CABLE TO CABLE TEE CONNECTION

DETAIL B
CH2M



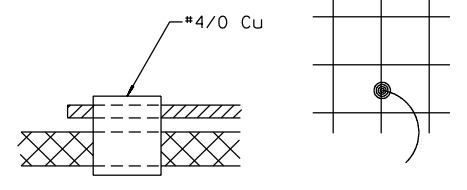
COMPRESSION GROUND GRID CONNECTOR THRU CABLE TO LOWER REBAR CONNECTION

DETAIL F
CH2M



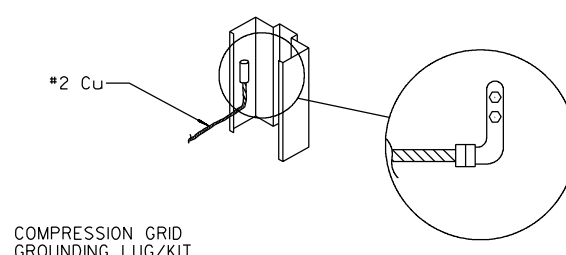
COMPRESSION GROUND GRID CONNECTOR CABLE TO GROUND ROD TEE CONNECTION

DETAIL C
CH2M



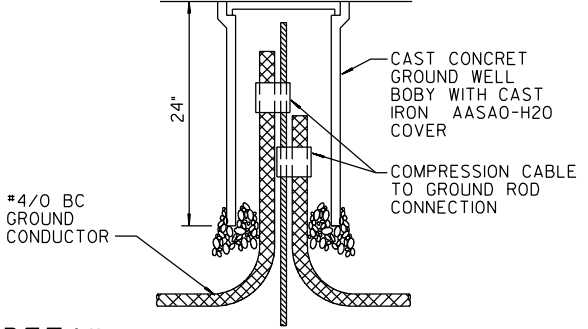
COMPRESSION GROUND GRID CONNECTION END CABLE TO UPPER REBAR CONNECTION

DETAIL G
CH2M



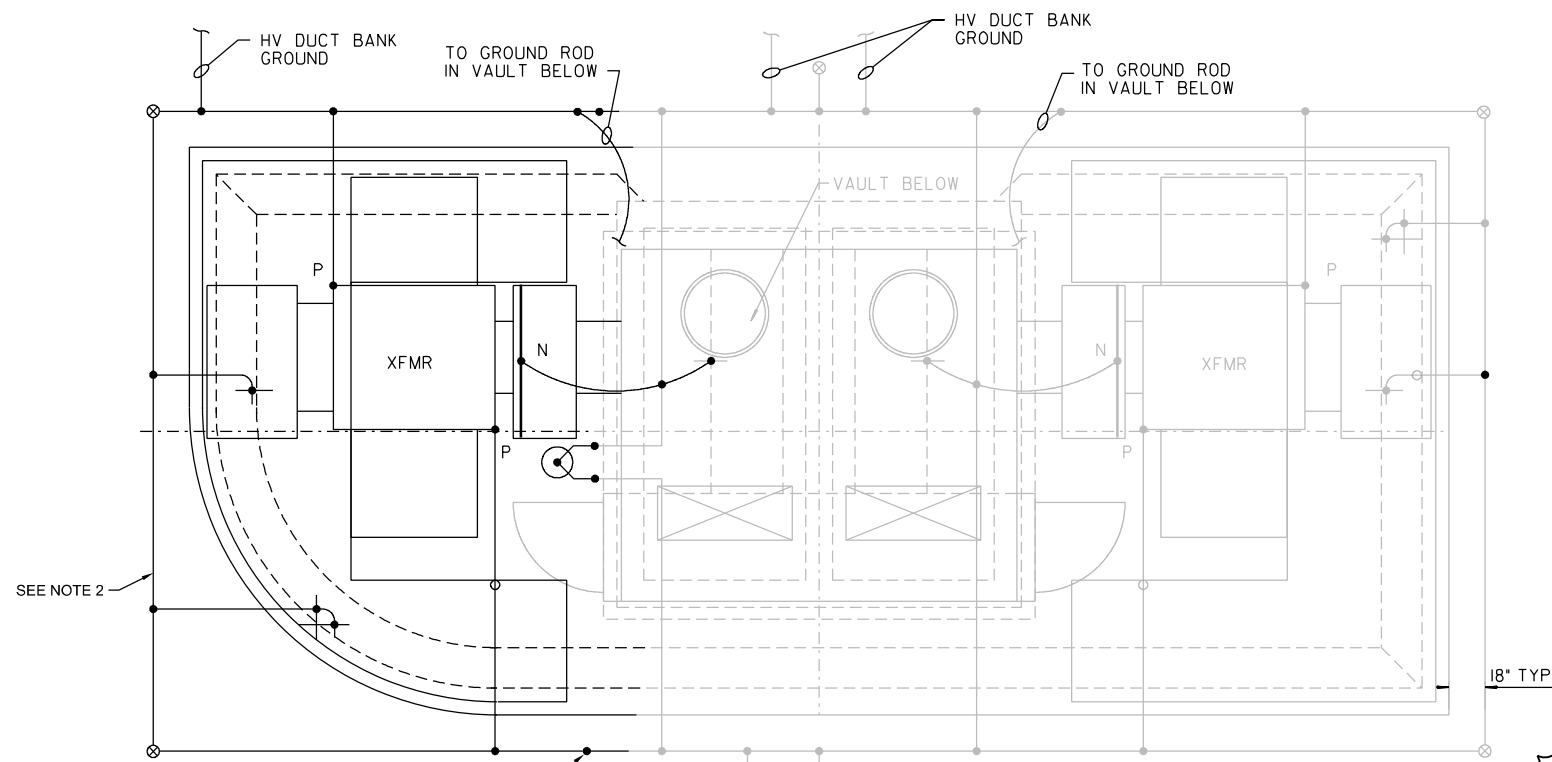
COMPRESSION GRID GROUNDING LUG/KIT END CABLE TO ALUMINUM DOOR FRAME CONNECTION

DETAIL H
CH2M



CAST CONCRET GROUND WELL BODY WITH CAST IRON AASAO-H2O COVER
COMPRESSION CABLE TO GROUND ROD CONNECTION
#4/0 BC GROUND CONDUCTOR

DETAIL S
CH2M



ELECTRICAL SUBSTATION GROUNDING PLAN

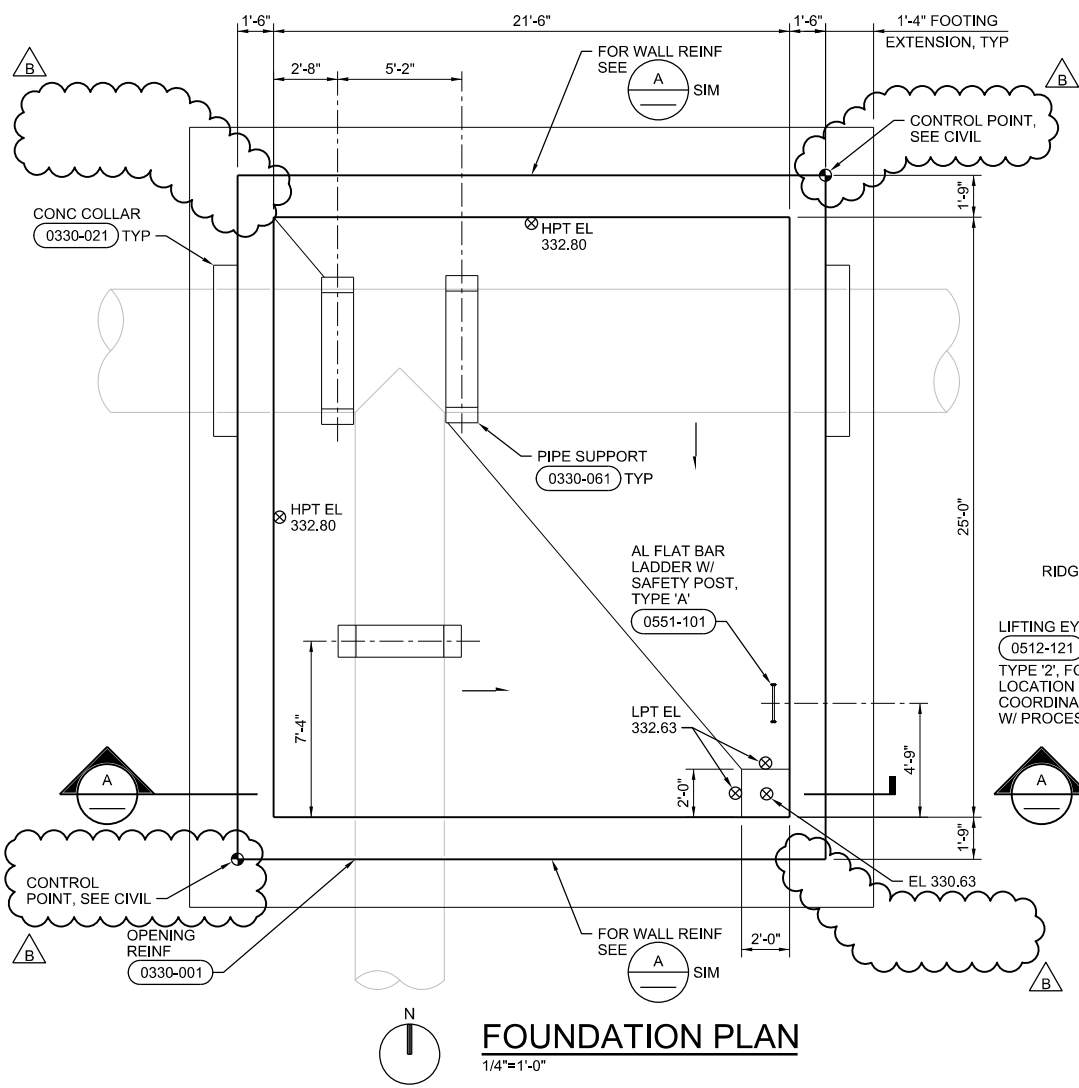
WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



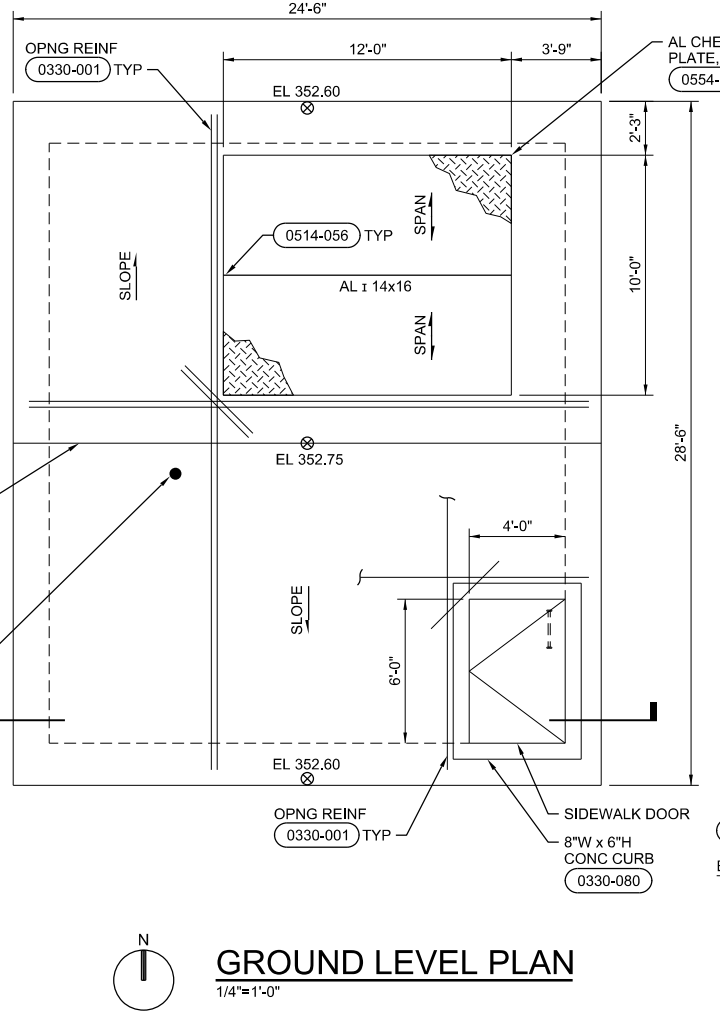
DIGITALLY SIGNED: 01/27/2021

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 195B OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C70321	PROJECT MANAGER: MONIKA SMOCZYNSKI
PROJECT ENGINEER: THIEN-LONG TRAN	DATE STARTED: 2/3/21	DATE COMPLETED:
DESCRIPTION: Addendum B	BY: CH	FILE: 260-1709
		1900-6269
		40381-2195B-D

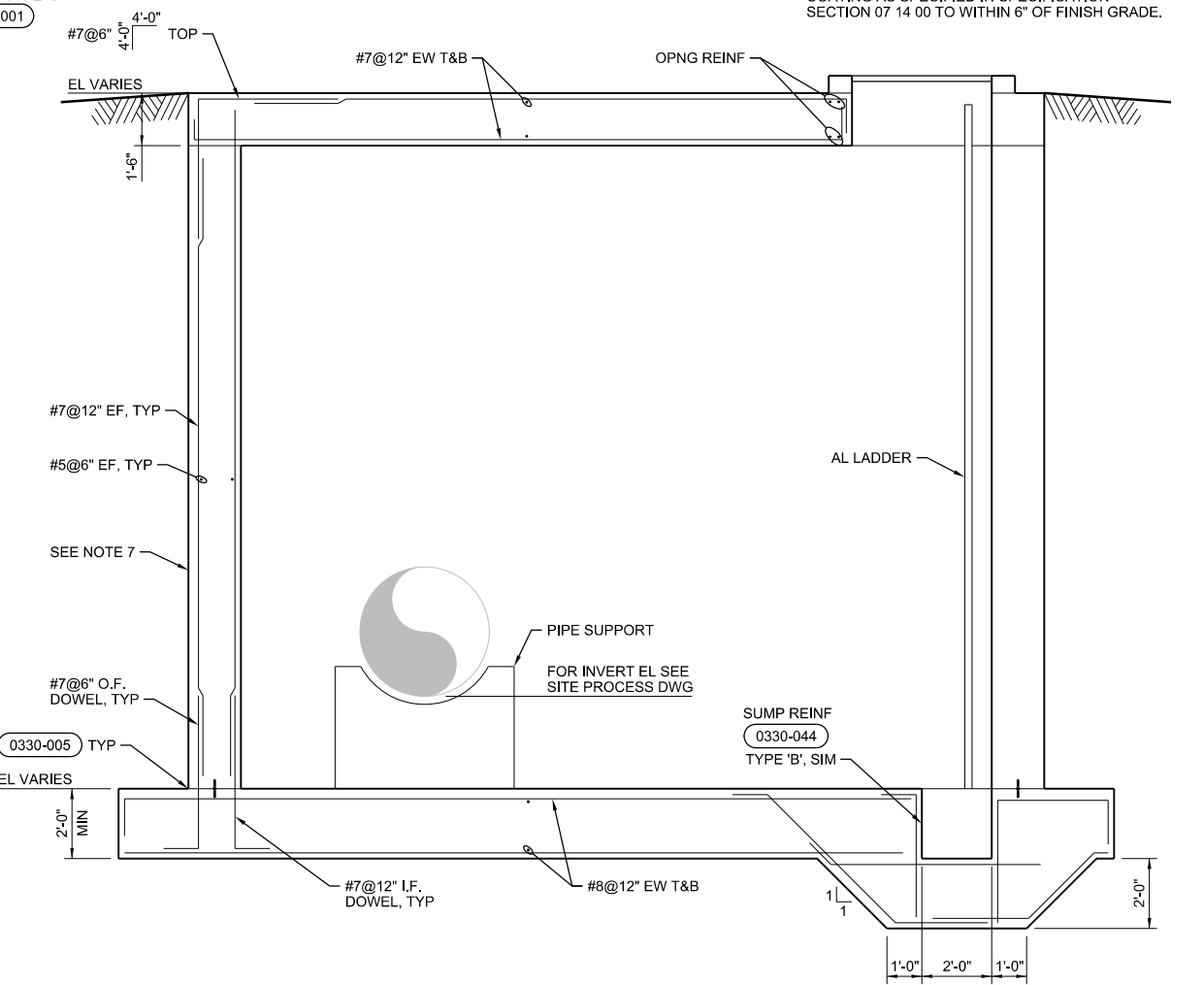
- FACILITY NOTES:**
- FOR DESIGN CRITERIA AND GENERAL STRUCTURAL NOTES, SEE DRAWINGS G-030 AND G-031.
 - FOR SPECIAL INSPECTION REQUIREMENTS, SEE DRAWINGS G-032 TO G-036.
 - FACILITY SPECIFIC ADDITIONAL DESIGN CRITERIA:
 - LIVE LOAD ON TOP OF BASIN AND VAULT: 150 PSF
 - FOR TYPICAL WALL BASE CONSTRUCTION JOINT, SEE STANDARD DETAIL **0330-005**.
 - FOR ADDITIONAL REINFORCING AT OPENINGS, SEE STANDARD DETAIL **0330-001**.
- NOT ALL OPENINGS ARE INDICATED ON THE DRAWINGS.
- FOR DRAINAGE FABRIC AND PERIMETER DRAIN FOR ALL EXTERIOR WALLS, SEE DRAWING Y-101 TO Y-117.
 - ALL BELOW GRADE WALLS SHALL RECEIVE SPECIAL COATING AS SPECIFIED IN SPECIFICATION SECTION 07 14 00 TO WITHIN 6" OF FINISH GRADE.



FOUNDATION PLAN
1/4"=1'-0"



GROUND LEVEL PLAN
1/4"=1'-0"



A SECTION
3/8"=1'-0"

PK2-CS-102

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION		B-16149, S-17012	
CIVIL SITE STRUCTURAL RS VAULT PLANS AND SECTION		WBS B-15142	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 197 OF 1169 SHEETS		APPROVED BY: <i>Monika Smoczynski</i> DATE: 12/03/2020 PROJECT MANAGER	
FOR CITY ENGINEER: <i>Andrea Demich</i> PRINT DCE NAME: <i>Andrea Demich</i> RCE#		SUBMITTED BY: <i>Thien-Long Tran</i> PROJECT ENGINEER	
DESCRIPTION	BY	APPROVED	DATE
▲ Addendum B	CH	<i>Thien-Long Tran</i>	2/3/21
1900-6269		DATE STARTED	
CCS27 COORDINATE		DATE COMPLETED	
CCS83 COORDINATE		40381-2197-D	

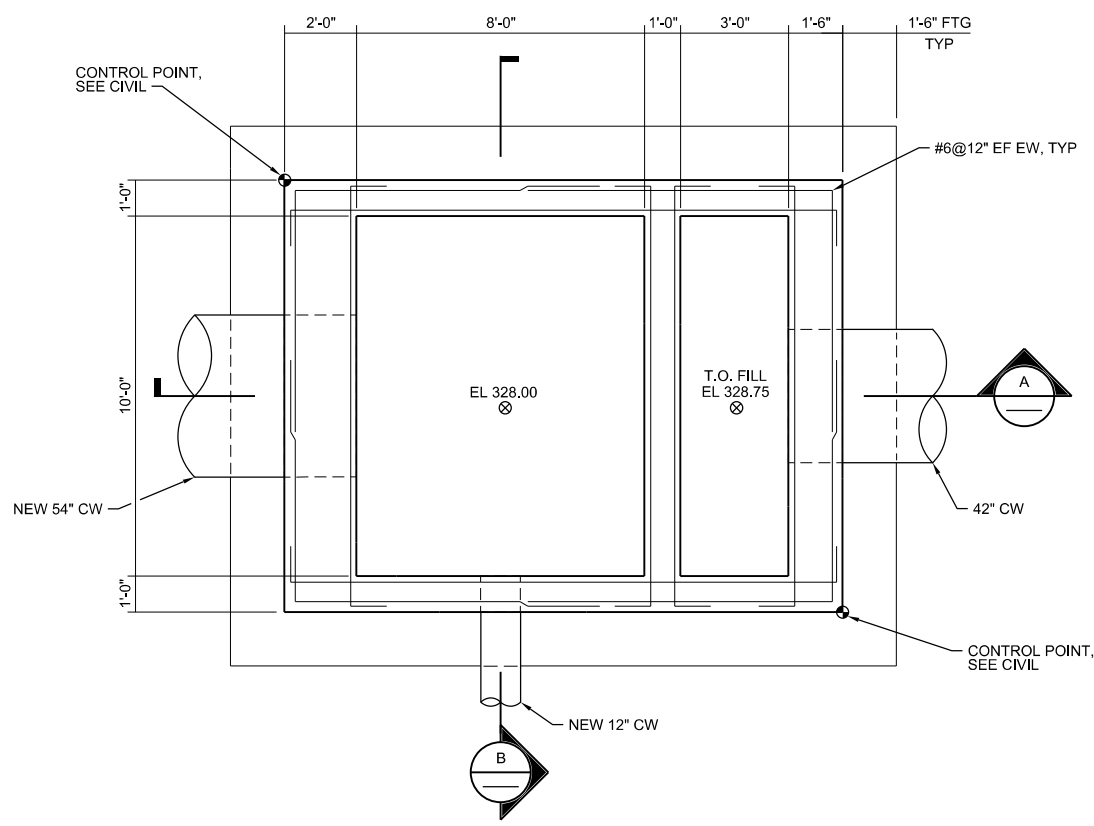
CONSULTANT

ch2mSM

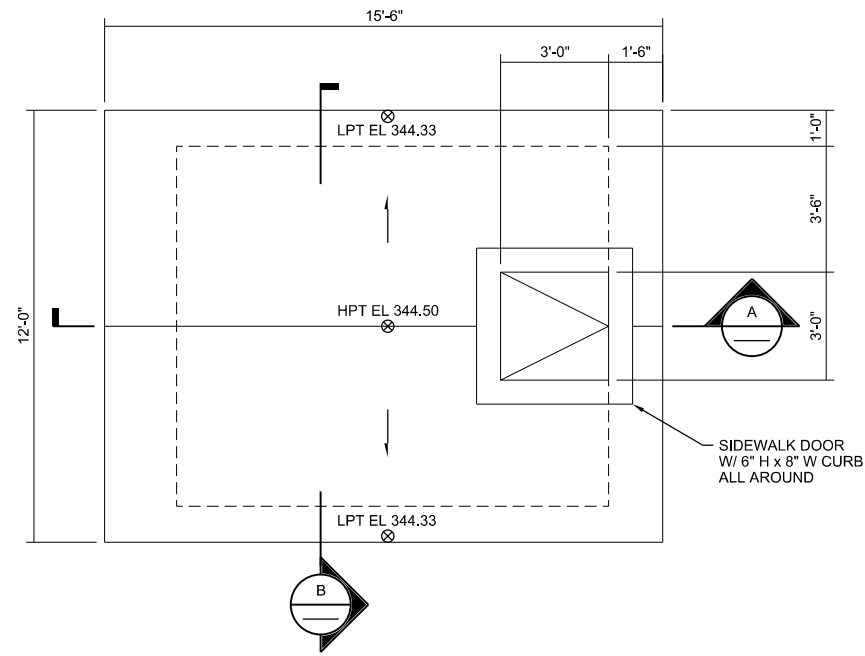
REGISTERED PROFESSIONAL ENGINEER
MICHAEL W. WILSON
No. 55625
STRUCTURAL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 01/26/2021

WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

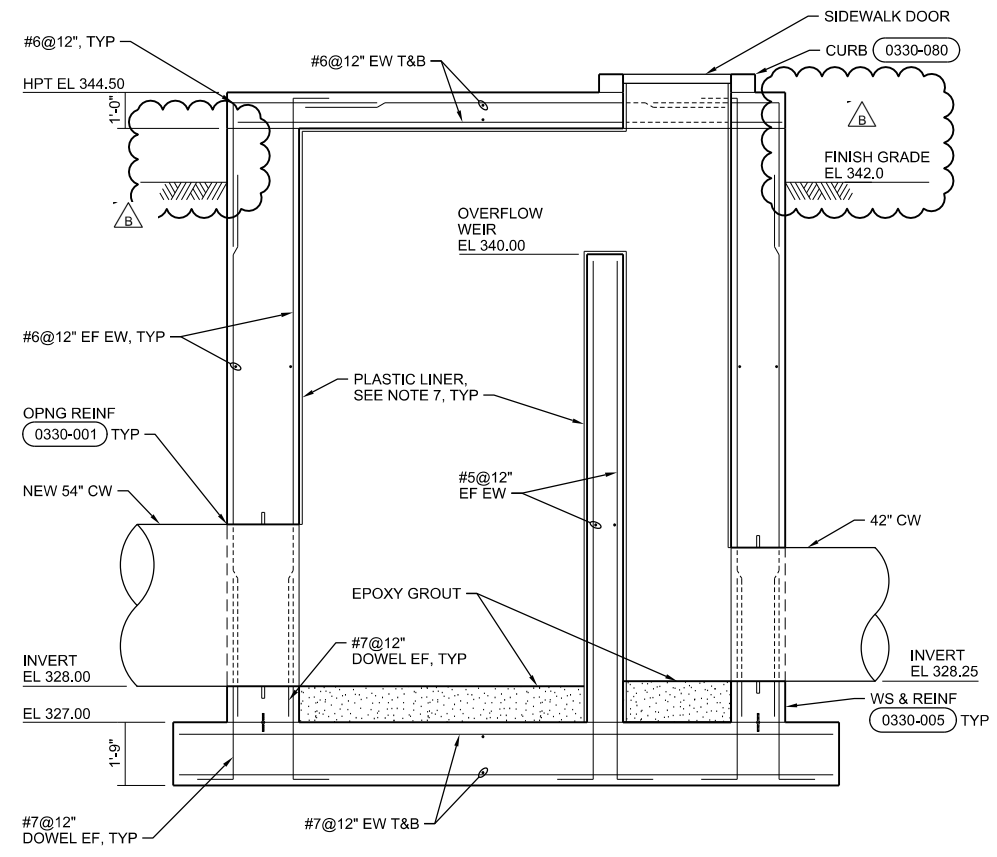
CONTRACTOR _____
INSPECTOR _____



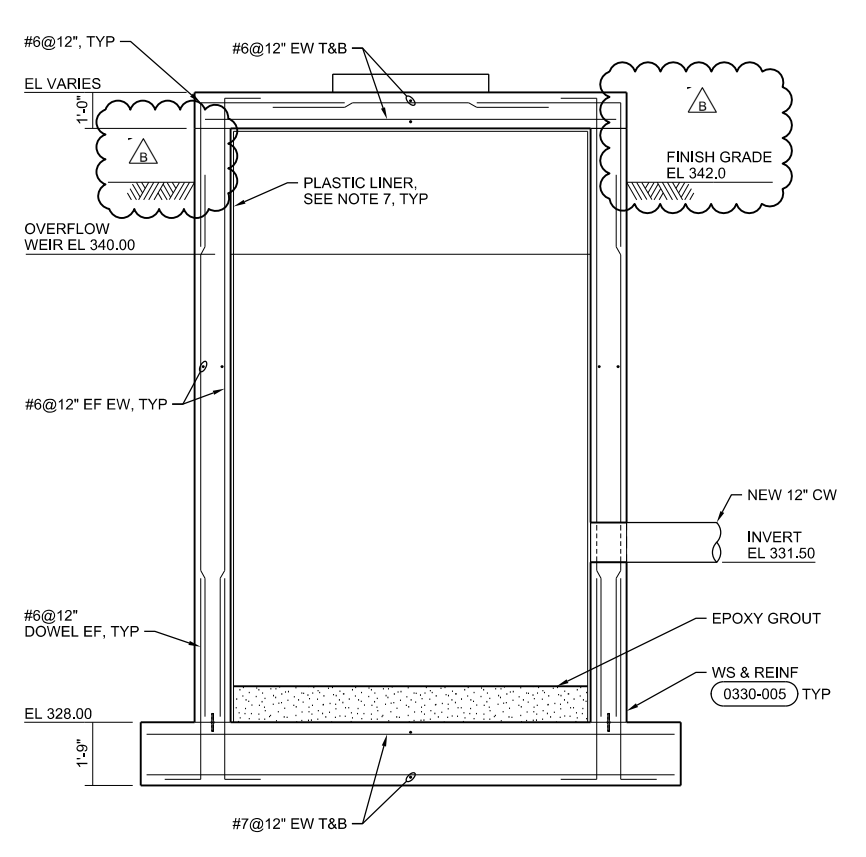
FOUNDATION PLAN
3/8"=1'-0"



TOP PLAN
3/8"=1'-0"



A SECTION
3/8"=1'-0"



B SECTION
3/8"=1'-0"

FACILITY NOTES:

1. FOR DESIGN CRITERIA AND GENERAL STRUCTURAL NOTES, SEE DRAWINGS G-030 AND G-031.
 2. FOR SPECIAL INSPECTION REQUIREMENTS, SEE DRAWINGS G-032 TO G-036.
 3. FACILITY SPECIFIC ADDITIONAL DESIGN CRITERIA:
LEAKAGE TEST WATERSURFACE ELEVATION: 343.00
 4. FOR TYPICAL WALL BASE CONSTRUCTION JOINT, SEE STANDARD DETAIL 0330-005.
 5. FOR ADDITIONAL REINFORCING AT OPENINGS, SEE STANDARD DETAIL 0330-001.
 6. FOR DRAINAGE FABRIC AND PERIMETER DRAIN FOR ALL EXTERIOR WALLS, SEE DRAWING Y-101 TO Y-117.
 7. FOR THERMOPLASTIC LINER, SEE SPECIFICATION SECTION 44 42 73.01, THERMOPLASTIC LINER FOR CONCRETE STRUCTURES.
- A. SEISMIC DESIGN CRITERIA:
BASIN:
FLAT BOTTOM GROUND SUPPORTED TANKS - REINFORCED CONCRETE
RESPONSE MODIFICATION COEFFICIENT: R = 2
ANALYSIS PROCEDURE USED: LATERAL EQUIVALENT FORCE METHOD
- B. LIVE LOAD ON TOP OF BASIN AND VAULT: 200 PSF

WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

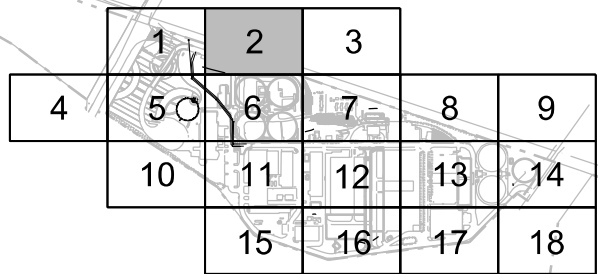
REGISTERED PROFESSIONAL ENGINEER
MICHAEL W. WILSON
No. 55625
STRUCTURAL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 01/26/2021

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 203 OF 1169 SHEETS				B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> DATE: 12/03/2020 FOR CITY ENGINEER: Andrea Demich DATE: C/0321 PRINT DCE NAME: RCE#				SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER PROJECT ENGINEER: THIEN-LONG TRAN 260-1709 CCS27 COORDINATE: 1900-6269 CCS83 COORDINATE:
DESCRIPTION	BY	APPROVED	DATE	FILM
△ Addendum B	CH	<i>[Signature]</i>	2/3/21	
DATE STARTED				40381-2203-D
INSPECTOR				DATE COMPLETED

PK2-CS-106

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
SITE STRUCTURAL
WASTE DIVERSION STRUCTURE
PLANS AND SECTIONS

LIGHTING CIRCUIT CALCULATIONS								
EXISTING CIRCUIT NUMBER	EXISTING CIRCUIT SIZE	EXISTING LOAD VA	NEW LOAD VA	DEMO LOAD VA	TOTAL VA	CIRCUIT FEET	VOLTAGE DROP	% VD
51DP4-2, 4, 6	1" C W/ 3#8, 1#10G	1440	58	0	1498	660	3.2	0.67



KEYPLAN
NTS

GENERAL NOTES:

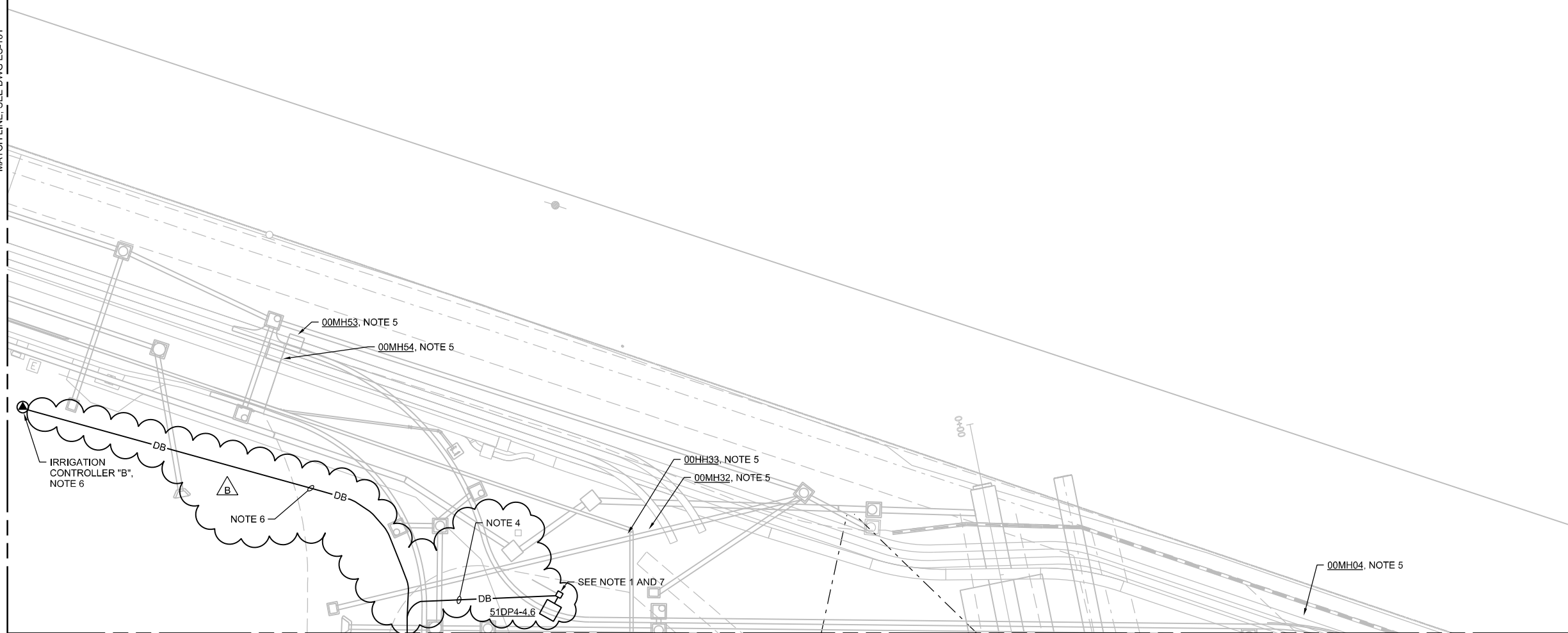
- A. REFER TO THE AREA CLASSIFICATION AND MATERIAL TABLE FOR HAZARDOUS AREA CLASSIFICATION EXTENTS AND MATERIAL SELECTIONS FOR CONDUIT, BOXES AND OTHER ELECTRICAL COMPONENTS, SEE DWG G-061.062.
- B. SEE DUCTBANK SCHEDULES, DWG ES-401 THRU ES-404
- C. SEE MANHOLE AND HANDHOLE SCHEDULE, DWG ES-501.
- D. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700 SERIES.
- E. SEE PANEL SCHEDULES, SEE DWG E-700 SERIES.
- F. REFER TO CONSTRUCTION PACKAGE 4 FOR DUCTBANKS AND WORK PERFORMED IN THIS AREA PRIOR TO THE CONSTRUCTION OF PACKAGE 2 WORK.
- G. CONTRACTOR TO POTHOLE AND FIELD VERIFY ELEVATION OF UTILITIES AND DUCT BANKS PRIOR TO CONSTRUCTION. IF CONFLICT EXISTS, CONTRACTOR IS TO NOTIFY CONSTRUCTION MANAGER.

NOTES:

- 1. NEW FIXTURE TYPE "S2"
SEE STANDARD DETAIL (2699-002), SHEET SD-045.
- 2. NOT USED.
- 3. NOT USED.
- 4. DIRECT BURY 1" C, 2#8, 1#10G. PROVIDE CONCRETE CAP UNDER ROAD CROSSING PER DETAIL (2605-424)
- 5. EQUIPMENT INDICATED, AND ANY ASSOCIATED DUCTBANKS WERE INSTALLED AS PART OF PREVIOUS CONSTRUCTION PACKAGE AND SHOWN AS EXISTING FOR THIS PACKAGE.
- 6. CONNECT POWER WIRING TO NEW IRRIGATION CONTROLLER. PROVIDE NEW CONDUCTORS IN 1" C, 2#8, 1#10G, FROM PANEL 51LP3 LOCATED AT FACILITY 51 (OPERATIONS BUILDING). RACEWAYS TO FOLLOW THE SAME DIRECT BURY TRENCH AS THE SITE LIGHTING.
- 7. ALL EXTERIOR LIGHTING INSTALLATIONS AND LAMP TYPE SHALL COMPLY WITH CITY OF SAN DIEGO OUTDOOR LIGHTING REGULATION 142.0740.

MATCH LINE - SEE DWG ES-101

MATCH LINE NOT USED



PK2-ES-102

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL
SITE PLAN
AREA 2

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 213 OF 1169 SHEETS

B-16149, S-17012
WBS B-15142

APPROVED: <i>Amir Barhoumi</i> FOR CITY ENGINEER Andreas Demich	DATE 12/03/2020 C70321	PROJECT MANAGER AMER BARHOUMI
PRINT DCE NAME <i>Amir Barhoumi</i>	RCE#	PROJECT ENGINEER MONIKA SMOCZYNSKI
DESCRIPTION Addendum B	BY CH	DATE 2/3/21
APPROVED <i>Amir Barhoumi</i>	DATE 2/3/21	FILM
DATE STARTED		40381-2213-D
DATE COMPLETED		

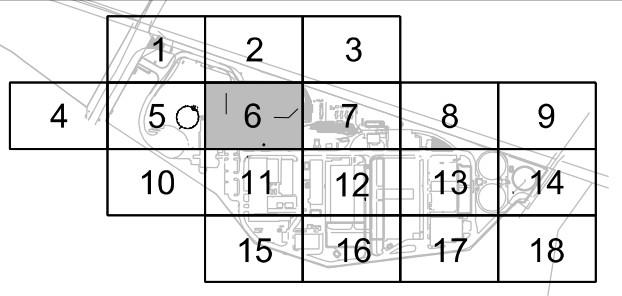
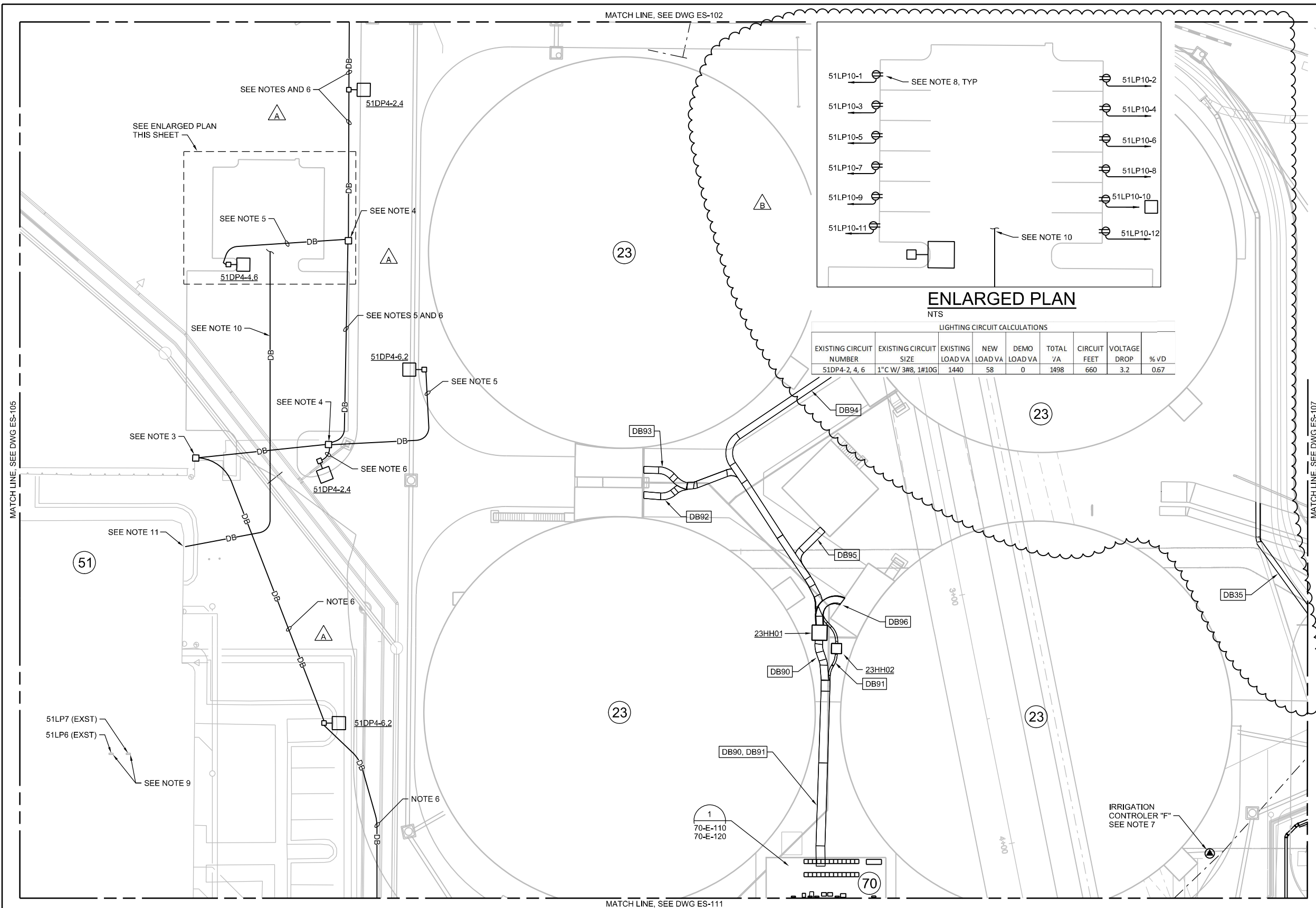
WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

DIGITALLY SIGNED:
01/26/2021

CONTRACTOR _____
INSPECTOR _____

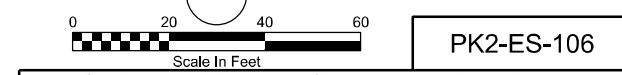




KEYPLAN
NTS

- GENERAL NOTES:**
- A. REFER TO THE AREA CLASSIFICATION AND MATERIAL TABLE FOR HAZARDOUS AREA CLASSIFICATION EXTENTS AND MATERIAL SELECTIONS FOR CONDUIT, BOXES AND OTHER ELECTRICAL COMPONENTS, SEE DWG G-061,062.
 - B. SEE DUCTBANK SCHEDULES, DWG ES-401 THRU ES-404
 - C. SEE MANHOLE AND HANDHOLE SCHEDULE, DWG ES-501.
 - D. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700 SERIES.
 - E. SEE PANEL SCHEDULES, SEE DWG E-700 SERIES.
 - F. REFER TO CONSTRUCTION PACKAGE 4 FOR DUCTBANKS AND WORK PERFORMED IN THIS AREA PRIOR TO THE CONSTRUCTION OF PACKAGE 2 WORK.
 - G. CONTRACTOR TO POTHOLE AND FIELD VERIFY ELEVATION OF UTILITIES AND DUCT BANKS PRIOR TO CONSTRUCTION. IF CONFLICT EXISTS, CONTRACTOR IS TO NOTIFY CONSTRUCTION MANAGER.

- NOTES:**
1. NEW FIXTURE TYPE "S2" SEE STANDARD DETAIL (2699-002), SHEET SD-045.
 2. INTERCEPT EXISTING CONDUIT AND INSTALL NEW HANDHOLE. TAP EXISTING CONDUCTORS AND EXTEND AS SHOWN.
 3. EXISTING CONDUIT AND CONDUCTORS TO REMAIN. (2) 1" C, 3#8, 1#10G AND 1" C, 2#8, 1#10G. LOCATE HANDHOLE AND VERIFY CIRCUITS.
 4. NEW HANDHOLE.
 5. 1" C, 2#8, 1#10G TO NEW POLE.
 6. 1" C, 3#8, 1#10G DIRECT BURY.
 7. RECONNECT EXISTING POWER WIRING TO NEW IRRIGATION CONTROLLER.
 8. MOUNT VEHICLE CHARGING RECEPTACLES PER (2605-011A). LOCATE PEDESTAL AT SPECIFIC LOCATION AND HEIGHT AS DIRECTED BY OWNER'S REPRESENTATIVE. TRENCH AND REPAIR SURFACES IN ORDER TO PLACE BURIED CONDUIT. PROVIDE TRAFFIC RATED, FLUSH MOUNTED PULL BOXES AS REQUIRED FOR CONDUIT MANAGEMENT.
 9. EXISTING PANELBOARDS ARE LOCATED ON THE LOWER LEVEL OF THE OPERATIONS BUILDING. FIELD VERIFY EXACT LOCATION.
 10. ROUTE DIRECT BURIED CONDUITS FROM VEHICLE CHARGING STATIONS TO THE OPERATIONS BUILDING. TRENCH AND REPAIR SURFACES IN ORDER TO PLACE DIRECT BURIED CONDUIT. PROVIDE TRAFFIC RATED, FLUSH MOUNTED PULL BOXES AS REQUIRED FOR CONDUIT MANAGEMENT. VEHICLE CHARGING CIRCUITS MAY BE COMBINED INTO FEWER CONDUITS AT CONTRACTOR'S DISCRETION (NO MORE THAN THREE CIRCUITS PER CONDUIT).
 11. EXISTING CART CHARGING CONDUITS FROM PANEL 51LP10 TO BUILDING EXTERIOR SHALL BE REUSED FOR NEW CART CHARGING WIRING. IF EXISTING CONDUITS CANNOT BE REUSED, THEN PENETRATE EXISTING BUILDING WALL SIMILAR TO DETAIL (2605-304) TO AND ROUTE VEHICLE CHARGING CONDUITS TO POWER SOURCES WITHIN BUILDING.
 12. ALL EXTERIOR LIGHTING INSTALLATIONS AND LAMP TYPE SHALL COMPLY WITH CITY OF SAN DIEGO OUTDOOR LIGHTING REGULATION 142.0740



PK2-ES-106

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL SITE PLAN AREA 6

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 215 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C70321	PROJECT MANAGER: MONIKA SMOCZYNSKI
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Andrea Demich</i>
▲ Addendum B	CH	<i>Andrea Demich</i>
DATE		FILM
1/15/21		2/3/21
PROJECT ENGINEER: THIEN-LONG TRAN		
260-1709		
CCS27 COORDINATE		
1900-6269		
CCS33 COORDINATE		
40381-2215-D		
CONTRACTOR	DATE STARTED	INSPECTOR
	DATE COMPLETED	

CONSULTANT

ch2m

DIGITALLY SIGNED: 01/26/2021

CONTRACTOR

INSPECTOR

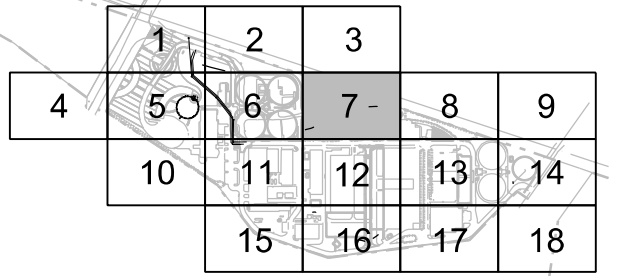
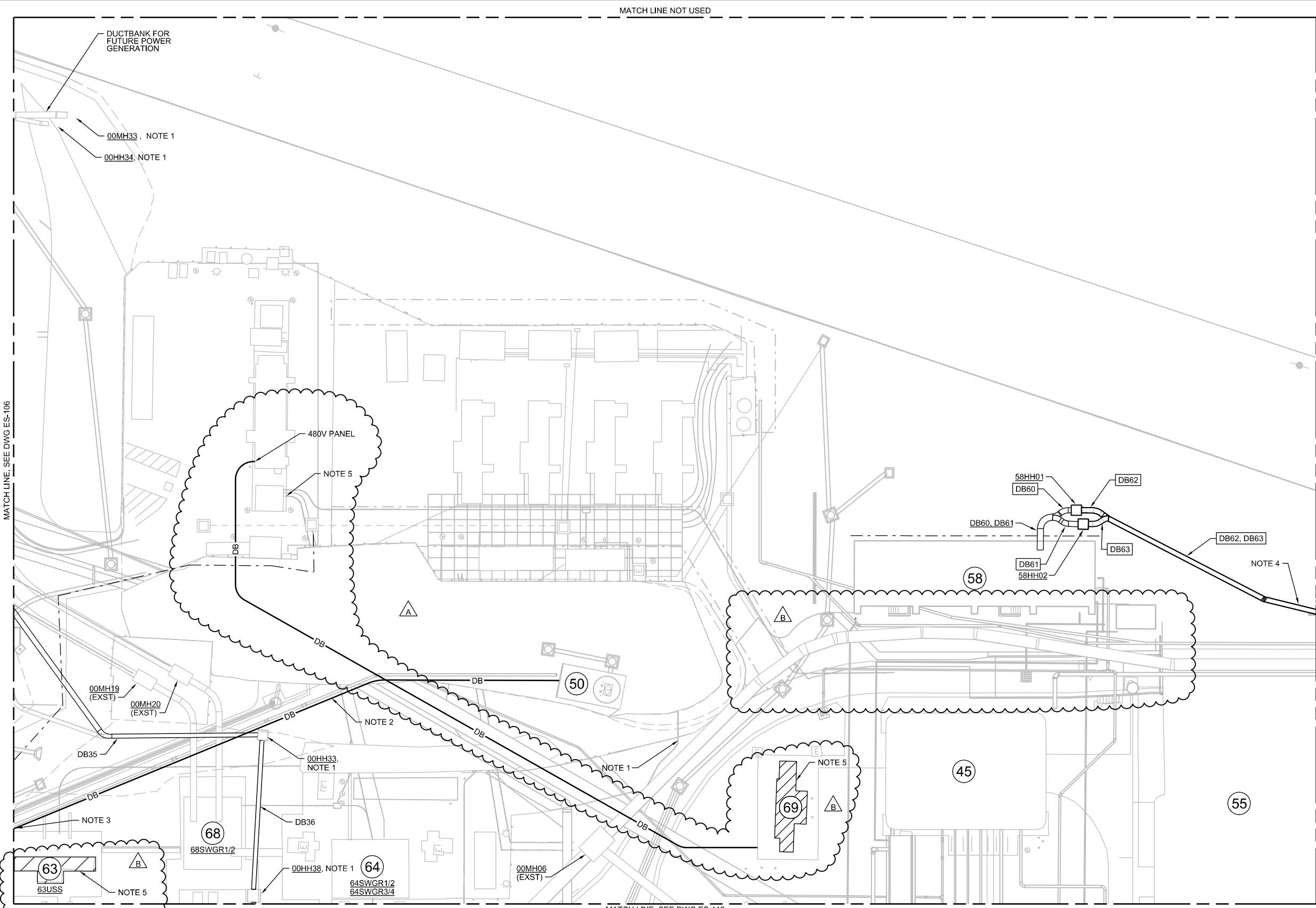
WARNING

0 1

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February 12, 2021
North City Water Reclamation Plant Expansion and NCPWF Influent Pump Station and Pipeline

MATCH LINE NOT USED



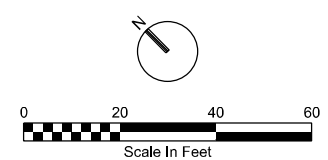
KEYPLAN
NTS

GENERAL NOTES:

- A. REFER TO THE AREA CLASSIFICATION AND MATERIAL TABLE FOR HAZARDOUS AREA CLASSIFICATION EXTENTS AND MATERIAL SELECTIONS FOR CONDUIT, BOXES AND OTHER ELECTRICAL COMPONENTS, SEE DWG G-061,062.
- B. SEE DUCTBANK SCHEDULES, DWG ES-401 THRU ES-404
- C. SEE MANHOLE AND HANDHOLE SCHEDULE, DWG ES-501.
- D. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700 SERIES.
- E. SEE PANEL SCHEDULES, SEE DWG E-700 SERIES.
- F. REFER TO CONSTRUCTION PACKAGE 4 FOR DUCTBANKS AND WORK PERFORMED IN THIS AREA PRIOR TO THE CONSTRUCTION OF PACKAGE 2 WORK.
- G. CONTRACTOR TO POTHOLE AND FIELD VERIFY ELEVATION OF UTILITIES AND DUCT BANKS PRIOR TO CONSTRUCTION. IF CONFLICT EXISTS, CONTRACTOR IS TO NOTIFY CONSTRUCTION MANAGER.

NOTE:

- 1. EQUIPMENT INDICATED, AND ANY ASSOCIATED DUCTBANKS WERE INSTALLED AS PART OF PREVIOUS CONSTRUCTION PACKAGE AND SHOWN AS EXISTING FOR THIS PACKAGE.
- 2. 2" C, 6#10, 16#14, 1#10G 1" C (PVC COATED RGS), 3 TYPE 3.
- 3. ROUTE CABLES BACK TO ELECTRICAL PANELS IN SECONDARY CLARIFIER ELECTRICAL BUILDING 70.
- 4. ROUTE DUCTBANK ALONG TOE OF SLOPE. SEE CG-106 AND CG-107 FOR FINAL GRADE.
- 5. EXISTING CONGENERATION FACILITY IS CURRENTLY POWERED FROM USS-63. PROVIDE NEW RACEWAYS AND POWER TO CONGENERATION FACILITY FROM USS-69. BEING REPLACED AS PART OF THIS CONTRACT. PREPARE AND COMPLETE WORK FOR POWER TRANSFER AS PART OF REPLACEMENT OF AND OUTAGES FOR USS-69 AND USS-63. RACEWAY FOR NEW POWER FEED MAY FOLLOW TRENCH USED FOR NEW PIPELINE.



PK2-ES-107

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 216 OF 1169 SHEETS
**ELECTRICAL
SITE PLAN
AREA 7**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 216 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: FOR CITY ENGINEER PRINT DCE NAME Andria Demuth	DATE C/03/21 RCE#	PROJECT MANAGER MONIKA SMOCZYNSKI PROJECT ENGINEER THIEN-LONG TRAN
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Andria Demuth</i>
▲ Addendum B	CH	<i>Andria Demuth</i>
		DATE
		1/15/21
		2/3/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS33 COORDINATE
DATE STARTED		40381-2216-D
DATE COMPLETED		

CONSULTANT

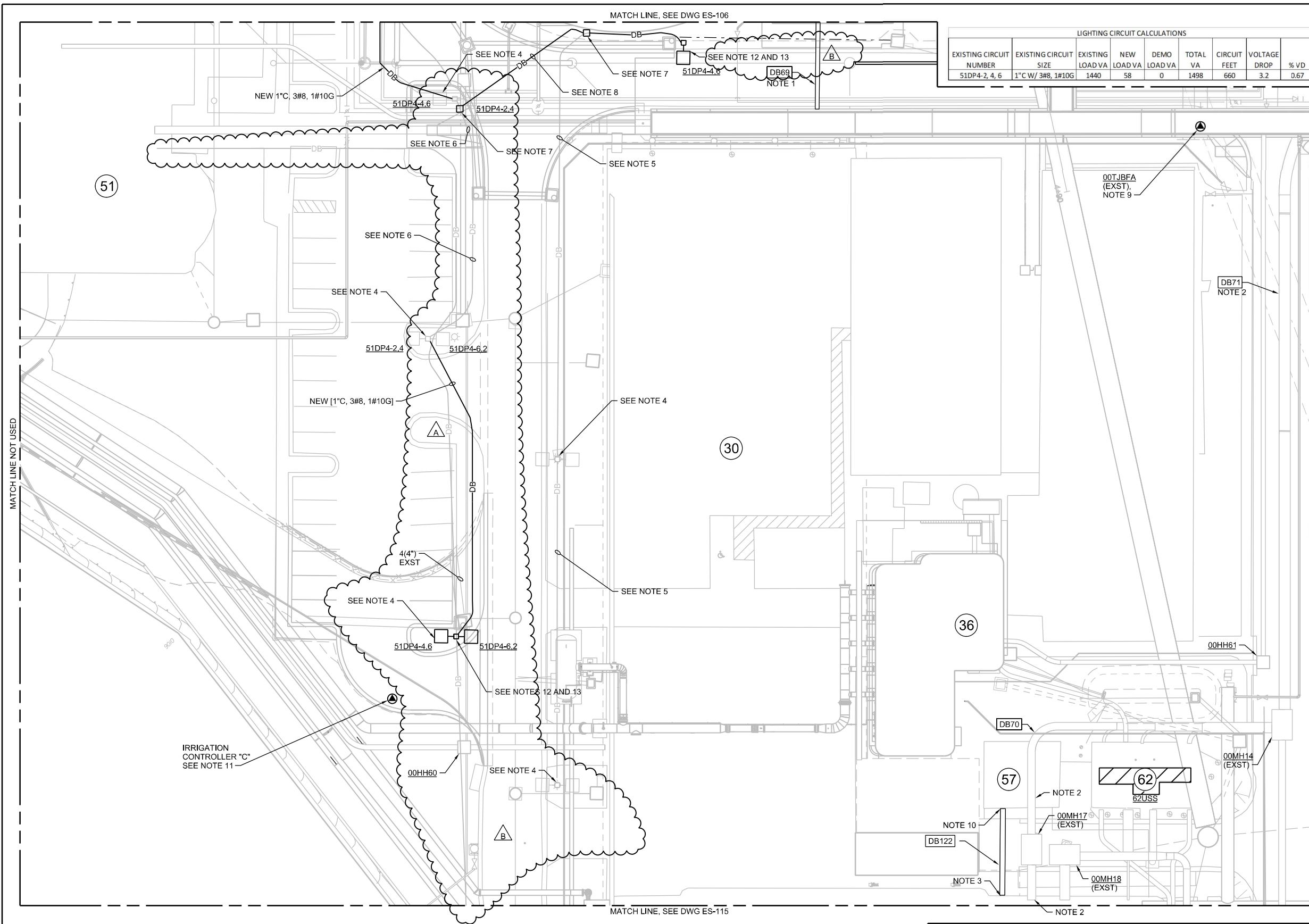
REGISTERED PROFESSIONAL ENGINEER & ELECTRICIAN
STEPHEN HARVEY
No. E21673
STATE OF CALIFORNIA

DIGITALLY SIGNED:
01/26/2021

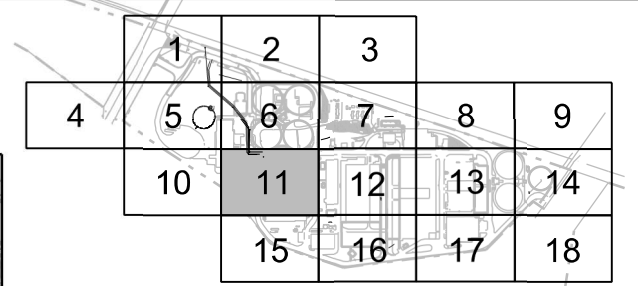
CONTRACTOR
INSPECTOR

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



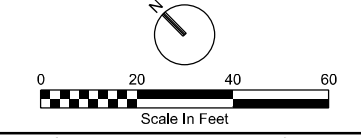
EXISTING CIRCUIT NUMBER	EXISTING CIRCUIT SIZE	EXISTING LOAD VA	NEW LOAD VA	DEMO LOAD VA	TOTAL VA	CIRCUIT FEET	VOLTAGE DROP	% VD
51DP4-2, 4, 6	1" C W/ 3#8, 1#10G	1440	58	0	1498	660	3.2	0.67



KEYPLAN
NTS

- GENERAL NOTES:**
- REFER TO THE AREA CLASSIFICATION AND MATERIAL TABLE FOR HAZARDOUS AREA CLASSIFICATION EXTENTS AND MATERIAL SELECTIONS FOR CONDUIT, BOXES AND OTHER ELECTRICAL COMPONENTS. SEE DWG G-061,062.
 - SEE DUCTBANK SCHEDULES, DWG ES-401 THRU ES-404
 - SEE MANHOLE AND HANDHOLE SCHEDULE, DWG ES-501.
 - REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700 SERIES.
 - SEE PANEL SCHEDULES, SEE DWG E-700 SERIES.
 - CONTRACTOR TO POTHOLE AND FIELD VERIFY ELEVATION OF UTILITIES AND DUCT BANKS PRIOR TO CONSTRUCTION. IF CONFLICT EXISTS, CONTRACTOR IS TO NOTIFY CONSTRUCTION MANAGER.

- NOTES:**
- NEW DUCTBANK FROM UTILITY TRENCH TO FACILITY 70 FOR POWER, FIBER OPTIC, AND FIRE ALARM NETWORK CONNECTIONS.
 - UTILIZE EXISTING SPARE CONDUITS IN DUCTBANK FOR NEW POWER FEEDERS TO NEW RECLAIMED WATER PUMP.
 - LOCATE NEW JUNCTION BOXES 34PC01 AND 34A01 ON EXTERIOR WALL OF PUMP STATION 34. CORE DRILL WALL FOR NEW CONDUIT PENETRATIONS INTO ELECTRICAL ROOM. FOLLOW EXISTING CONDUIT PATHWAYS IN ELECTRICAL ROOM OVERHEAD SPACE TO ROUTE CONDUITS TO CONTROL ROOM AND OTHER END POINTS AS REQUIRED.
 - EXISTING LUMINAIRE AND 30' POLE TO REMAIN.
 - EXISTING DIRECT BURY CONDUIT AND CONDUCTORS TO REMAIN. (1" C, 2#8, 1#10G AND 1" C, 3#8, 1#10G).
 - EXISTING CONDUIT AND CONDUCTORS TO REMAIN (1" C, 3#8, 1#10G)
 - INTERCEPT EXISTING CONDUIT AND INSTALL NEW HANDHOLE. TAP EXISTING CONDUCTORS AND EXTEND AS SHOWN.
 - NEW DIRECT BURY CONDUIT (1" C, 2#8, 1#10G AND 1" C, 3#8, 1#10G).
 - FIRE ALARM TJB LOCATED IN EXISTING UTILITY TRENCH. CONNECT NEW FIRE ALARM NETWORK VIA THIS PANEL AS SHOWN ON 70-E-110 AND AS SHOWN ON CIRCUIT AND RACEWAY SCHEDULES.
 - ROUTE CONDUITS TO EXISTING 57TJB FOR NEW INSTRUMENTATION WIRING AT THIS FACILITY.
 - RECONNECT EXISTING POWER WIRING TO NEW IRRIGATION CONTROLLER AT ITS NEW LOCATION. EXTEND / RELOCATE CONDUIT AND CONDUCTORS AS REQUIRED.
 - NEW FIXTURE TYPE "S2" SEE STANDARD DETAIL (2699-002) . SEE SHEET SD-045
 - ALL EXTERIOR LIGHTING INSTALLATIONS AND LAMP TYPE SHALL COMPLY WITH CITY OF SAN DIEGO OUTDOOR LIGHTING REGULATION 142-0740



PK2-ES-111

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL SITE PLAN AREA 11

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 218 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C70321	PROJECT MANAGER: MONIKA SMOCZYNSKI
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Andrea Demich</i>
▲ Addendum B	CH	<i>Andrea Demich</i>
DATE	FILM	
1/15/21		
2/3/21		
PROJECT ENGINEER: THIEN-LONG TRAN		
260-1709		
CCS27 COORDINATE		
1900-6269		
CCS33 COORDINATE		
40381-2218-D		

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HARVEY
No. E21673
ELECTRICAL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/26/2021

CONTRACTOR INSPECTOR

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

GENERAL NOTES:

- A. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700'S SERIES.
- B. SEE PANEL SCHEDULES, SEE DWG E-700'S SERIES.
- C. FOR MOTOR CONTROL DIAGRAMS, SEE DWG E-800'S SERIES.

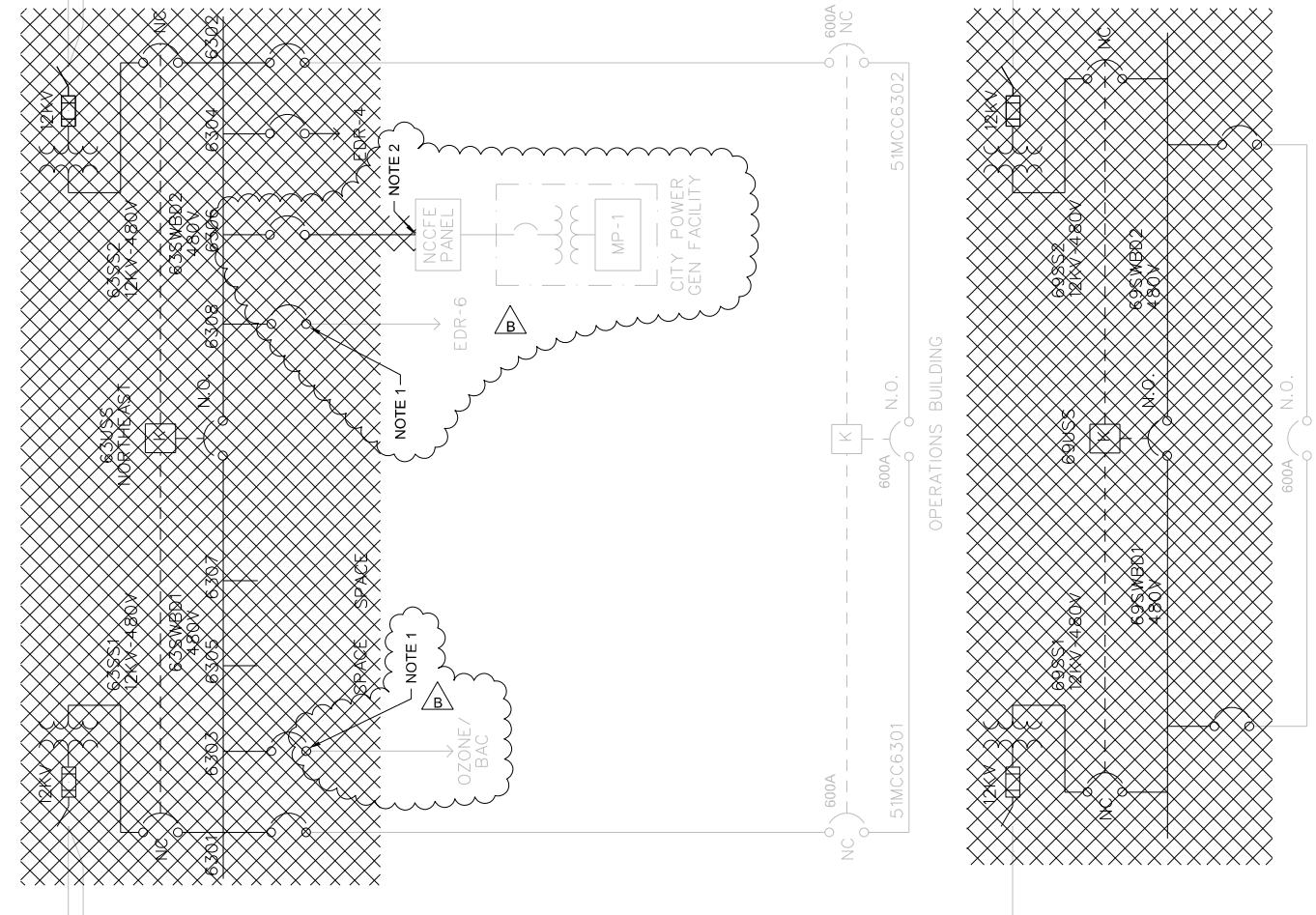
NOTES:

- 1. DISCONNECT AND PRESERVE EXISTING POWER CONDUCTORS FOR RE-CONNECTING TO NEW REPLACEMENT SWITCHGEAR.
- 2. DISCONNECT AND REMOVE/PULL EXISTING CONDUCTORS BACK TO LOAD. LOAD SHALL BE POWERED FROM NEW REPLACEMENT 69USS.

FROM 68SWGR2

MATCH LINE, SEE DRAWING ESX-602

FROM 68SWGR1



PK2-ESX-603

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 2 – NORTH CITY WRP EXPANSION
ELECTRICAL
SITE DEMOLITION
ONLINE DIAGRAM 3

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC UTILITIES DEPARTMENT
 SHEET 229 OF 1169 SHEETS

APPROVED: <i>Andrea Diemlich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Diemlich	DATE: 12/03/2020 DATE: C70321	RCE#	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE
▲ Addendum B	CH	<i>Andrea Diemlich</i>	2/3/21

THIEN-LONG TRAN
 PROJECT ENGINEER
 260-1709
 CCS27 COORDINATE
 1900-6269
 CCS83 COORDINATE

CONTRACTOR: _____ DATE STARTED: _____
 INSPECTOR: _____ DATE COMPLETED: _____

40381-2229-D

ADDENDUM B

Page 98 of 129

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER & ARCHITECT
 STEPHEN HARVEY
 No. E21673
 ELECTRICAL
 STATE OF CALIFORNIA

DIGITALLY SIGNED:
 01/26/2021

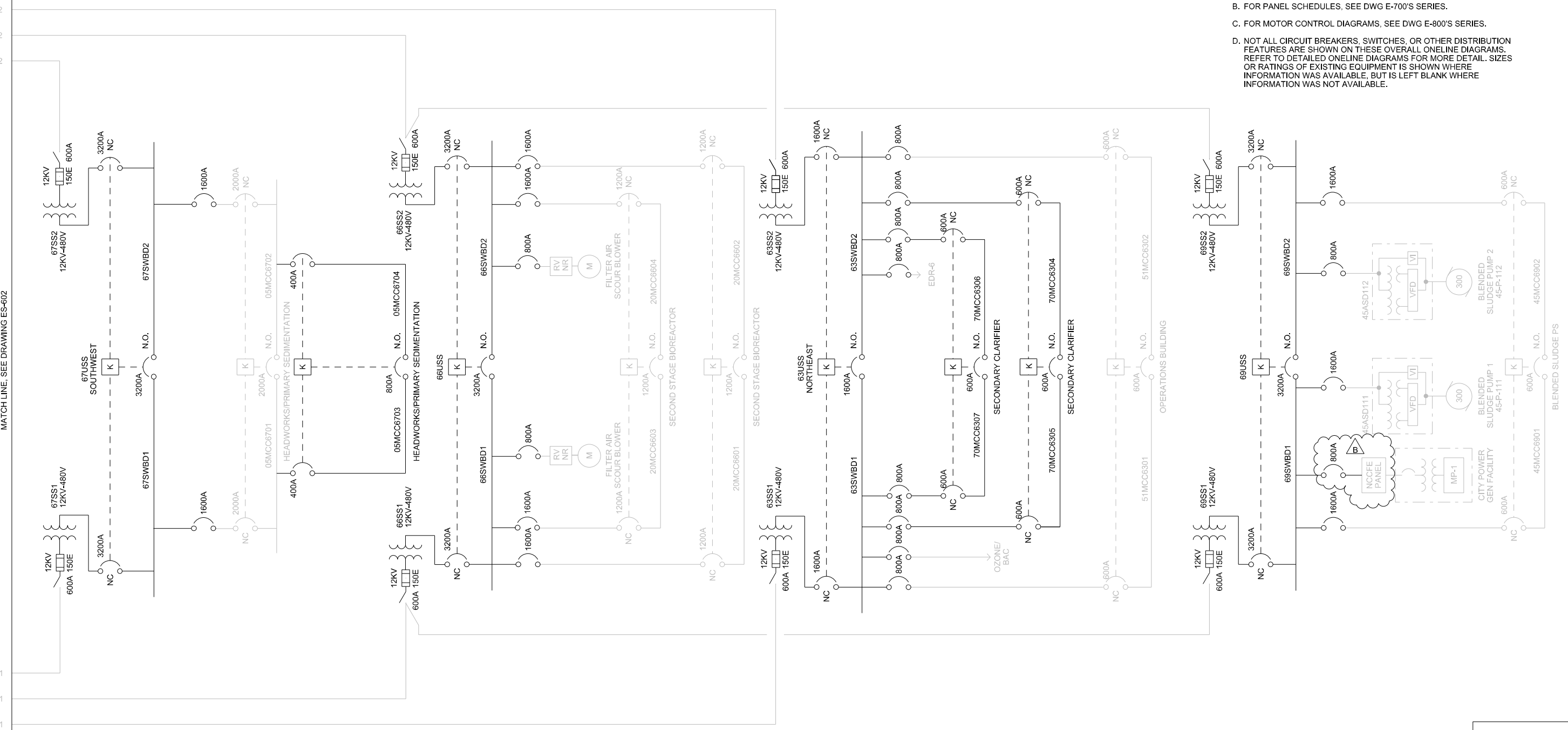
WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

FROM 68SWGR2
FROM 68SWGR2
FROM 68SWGR2

FROM 68SWGR1
FROM 68SWGR1
FROM 68SWGR1

MATCH LINE, SEE DRAWING ES-602



- GENERAL NOTES:**
- A. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700'S SERIES.
 - B. FOR PANEL SCHEDULES, SEE DWG E-700'S SERIES.
 - C. FOR MOTOR CONTROL DIAGRAMS, SEE DWG E-800'S SERIES.
 - D. NOT ALL CIRCUIT BREAKERS, SWITCHES, OR OTHER DISTRIBUTION FEATURES ARE SHOWN ON THESE OVERALL ONELINE DIAGRAMS. REFER TO DETAILED ONELINE DIAGRAMS FOR MORE DETAIL. SIZES OR RATINGS OF EXISTING EQUIPMENT IS SHOWN WHERE INFORMATION WAS AVAILABLE, BUT IS LEFT BLANK WHERE INFORMATION WAS NOT AVAILABLE.

PK2-ES-603

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL
SITE
MODIFIED ONELINE DIAGRAM 3

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 232 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142	
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andria Demich	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER	
DESCRIPTION	BY	APPROVED	DATE
▲ Addendum B	CH	<i>[Signature]</i>	2/3/21
PROJECT ENGINEER: THIEN-LONG TRAN		PROJECT NUMBER: 260-1709	
COORDINATE: CCS27		1900-6269	
COORDINATE: CCS83		40381-2232-D	
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	

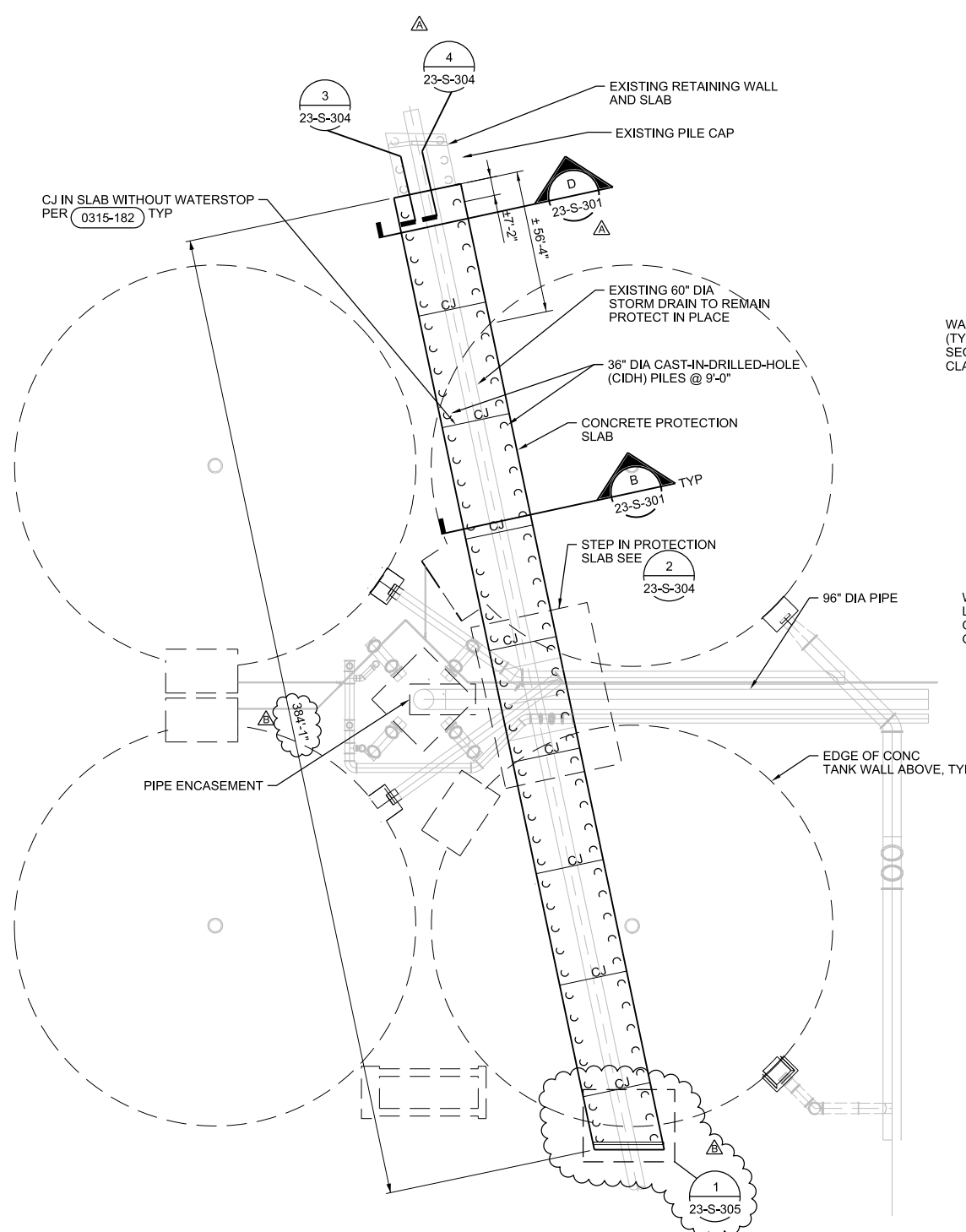
WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

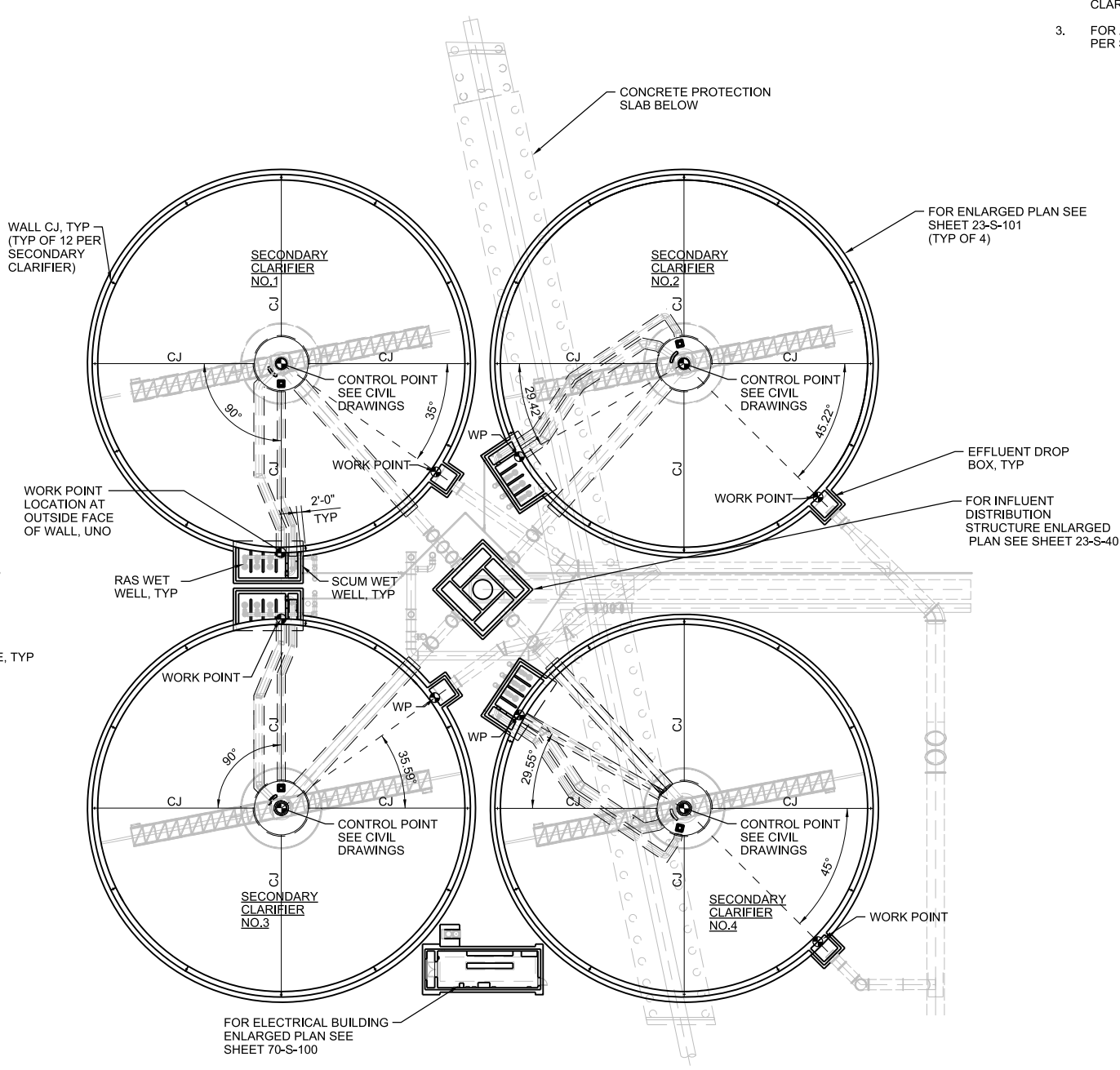
REGISTERED PROFESSIONAL ENGINEER
STEPHEN HARBER
No. E21673
ELECTRICAL
STATE OF CALIFORNIA

DIGITALLY SIGNED:
01/26/2021

- OVERALL PLAN NOTES:
- SEE CIVIL DRAWINGS FOR CONTROL POINT FOR LOCATION OF EACH INDIVIDUAL STRUCTURE.
 - SEE MECHANICAL DRAWINGS FOR ORIENTATION OF SECONDARY CLARIFIERS.
 - FOR AREAS THAT CANNOT ACHIEVE SUFFICIENT COMPACTION, USE CLSM PER SPECIFICATION SECTION 31 23 23.



PIPE PROTECTION SLAB FOUNDATION PLAN
1/32"=1'-0"



OVERALL FOUNDATION PLAN
1/32"=1'-0"

PK2-23-S-001

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
STRUCTURAL SECONDARY CLARIFIERS OVERALL FOUNDATION PLAN

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 695 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESIGNER: THIEN-LONG TRAN PROJECT ENGINEER	BY: <i>[Signature]</i>	DATE: 2/3/21
DESCRIPTION: Addendum B	CH: CH	FILM: 260-1709
		1900-6269
		CCS27 COORDINATE
		CCS83 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____	40381-2695-D
INSPECTOR: _____	DATE COMPLETED: _____	

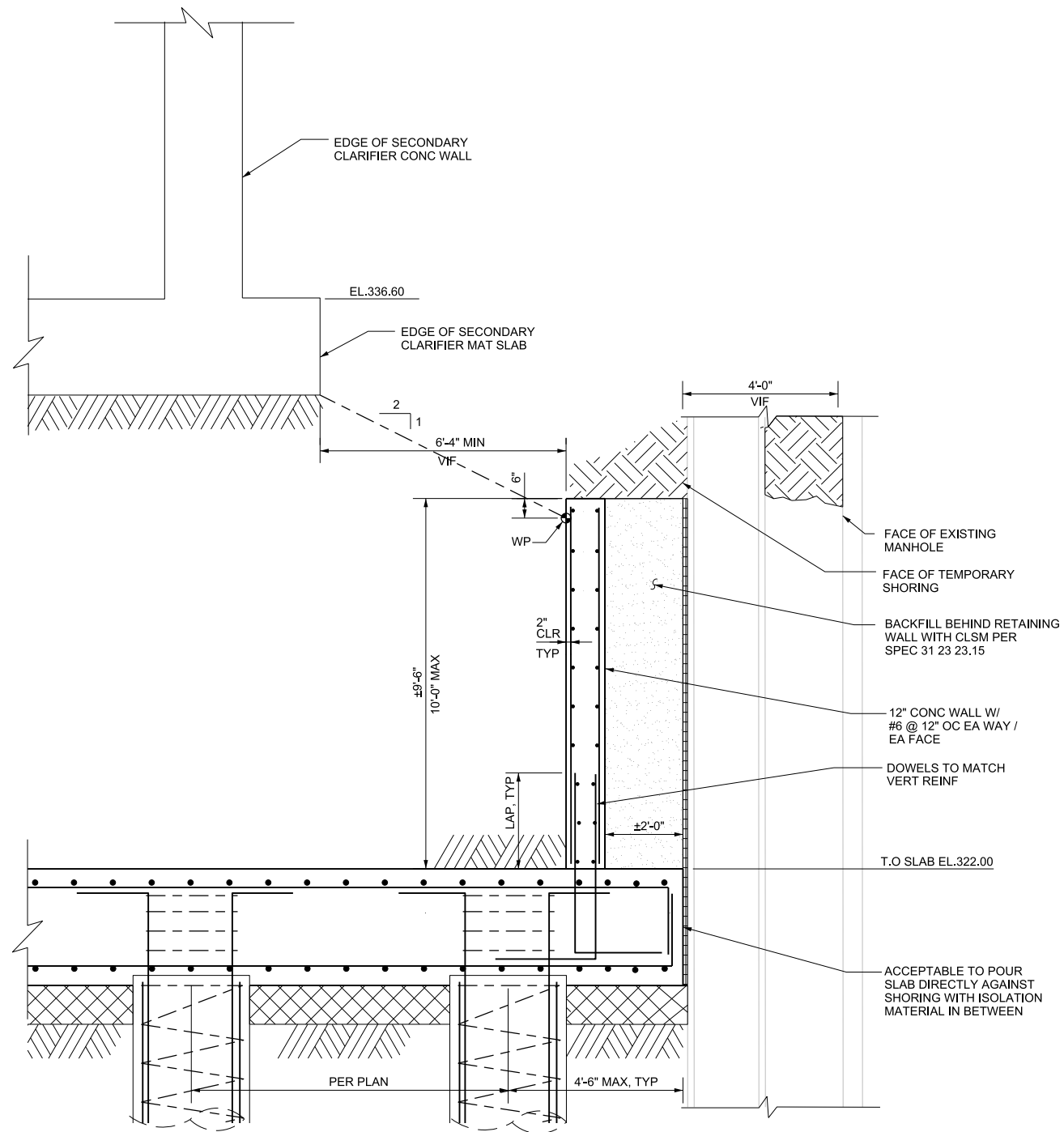
CONSULTANT

KLEINFELDER
Bright people. Right Solutions.

550 West C Street Suite : 1200 San Diego, CA 92101
Tel. (619) 831-4600 Kleinfelder.com

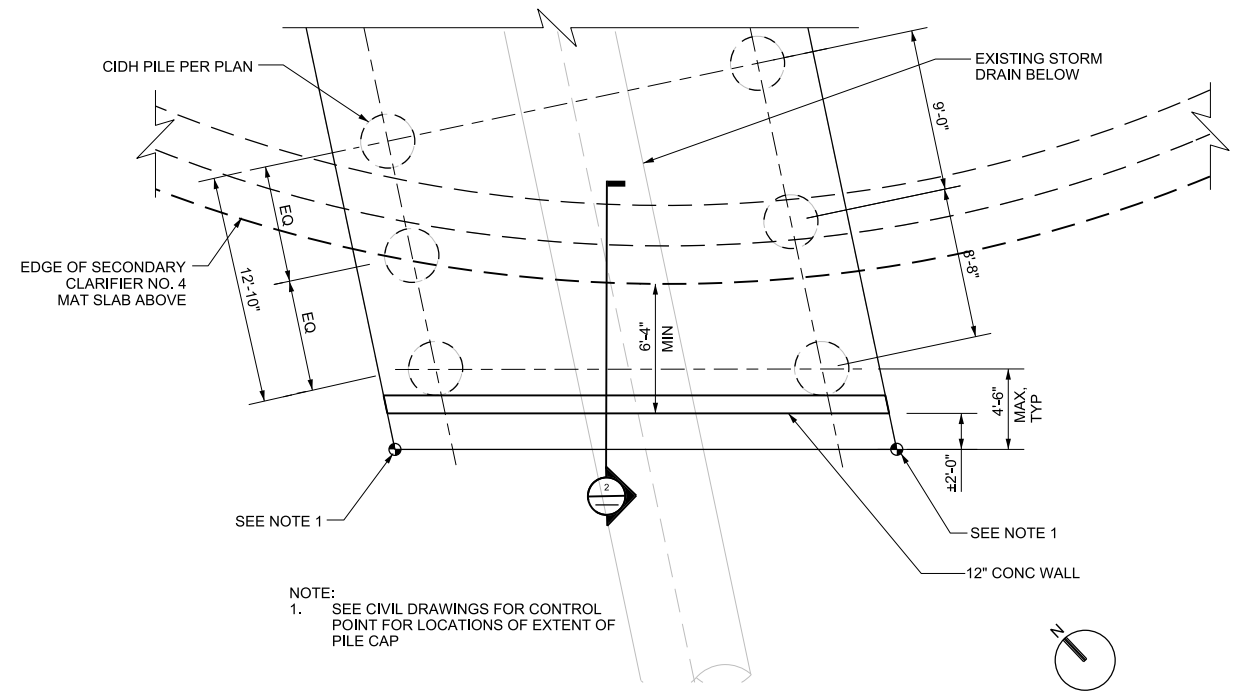
REGISTERED PROFESSIONAL ENGINEER
No. S3583
STRUCTURAL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 01/26/2021

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



- NOTE:
- FOR MORE INFO NOT SHOWN SEE **B** 23-S-301
 - GEOTECH SHALL PROVIDE GUIDANCE ON SHORING DESIGN, SOIL COMPACTION/CLSM LIMITS AFTER SHORING REMOVAL

2 PROTECTION SLAB AT RETAINING WALL FOOTING
1/2" = 1'-0"



- NOTE:
- SEE CIVIL DRAWINGS FOR CONTROL POINT FOR LOCATIONS OF EXTENT OF PILE CAP

1 PARTIAL PROTECTIVE SLAB FOUNDATION PLAN
3/16" = 1'-0"
23-S-100

CONSULTANT

KLEINFELDER
Bright people. Right Solutions.

550 West C Street Suite : 1200 San Diego, CA 92101
Tel. (619) 831-4600 Kleinfelder.com

REGISTERED PROFESSIONAL ENGINEER
PUBLIC UTILITIES ENGINEERING
No. S3583
DATE 12/03/2020
DIGITALLY SIGNED: 01/26/2021

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PK2-23-S-305

NCRWP EXPANSION AND NCPWF INFLUENT PIPES & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION

**STRUCTURAL
SECONDARY CLARIFIERS
PROTECTION SLAB PLAN
AND SECTION**

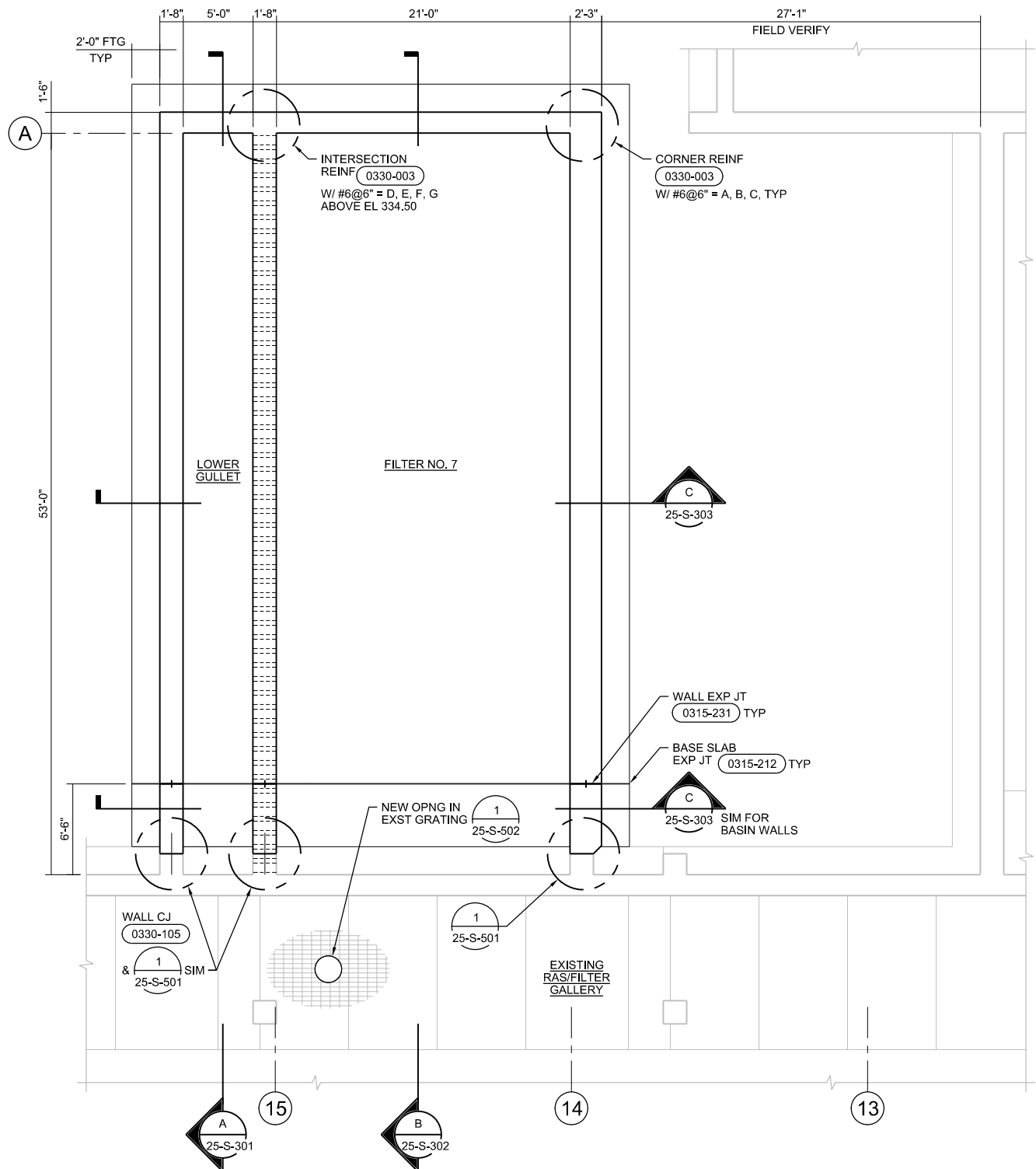
CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 705A OF 1169 SHEETS

APPROVED: *Monika Smoczyński* 12/03/2020
FOR CITY ENGINEER DATE C/70321
PRINT DCE NAME: Andriia Demich RCE#

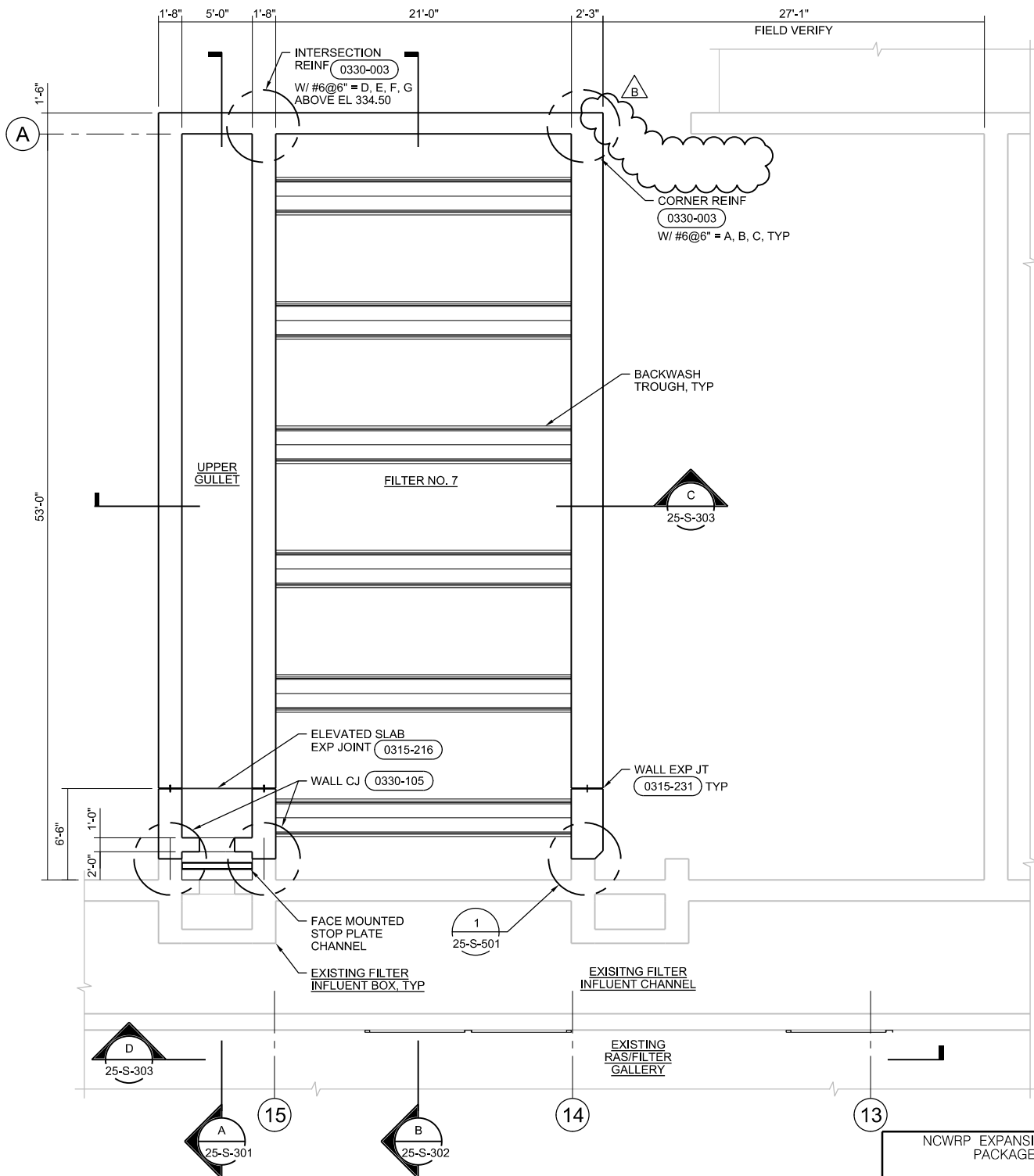
PROJECT MANAGER: MONIKA SMOCZYŃSKI
PROJECT ENGINEER: THIEN-LONG TRAN

DESCRIPTION	BY	APPROVED	DATE	FIRM
Addendum B	CH	<i>Monika Smoczyński</i>	2/3/21	260-1709
				1900-6269
				40381-2705A-D

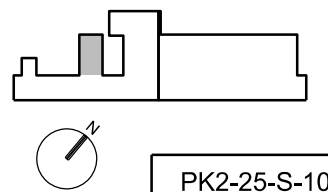
CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____



FOUNDATION PLAN
3/16"=1'-0"



INTERMEDIATE LEVEL PLAN
3/16"=1'-0"



PK2-25-S-101

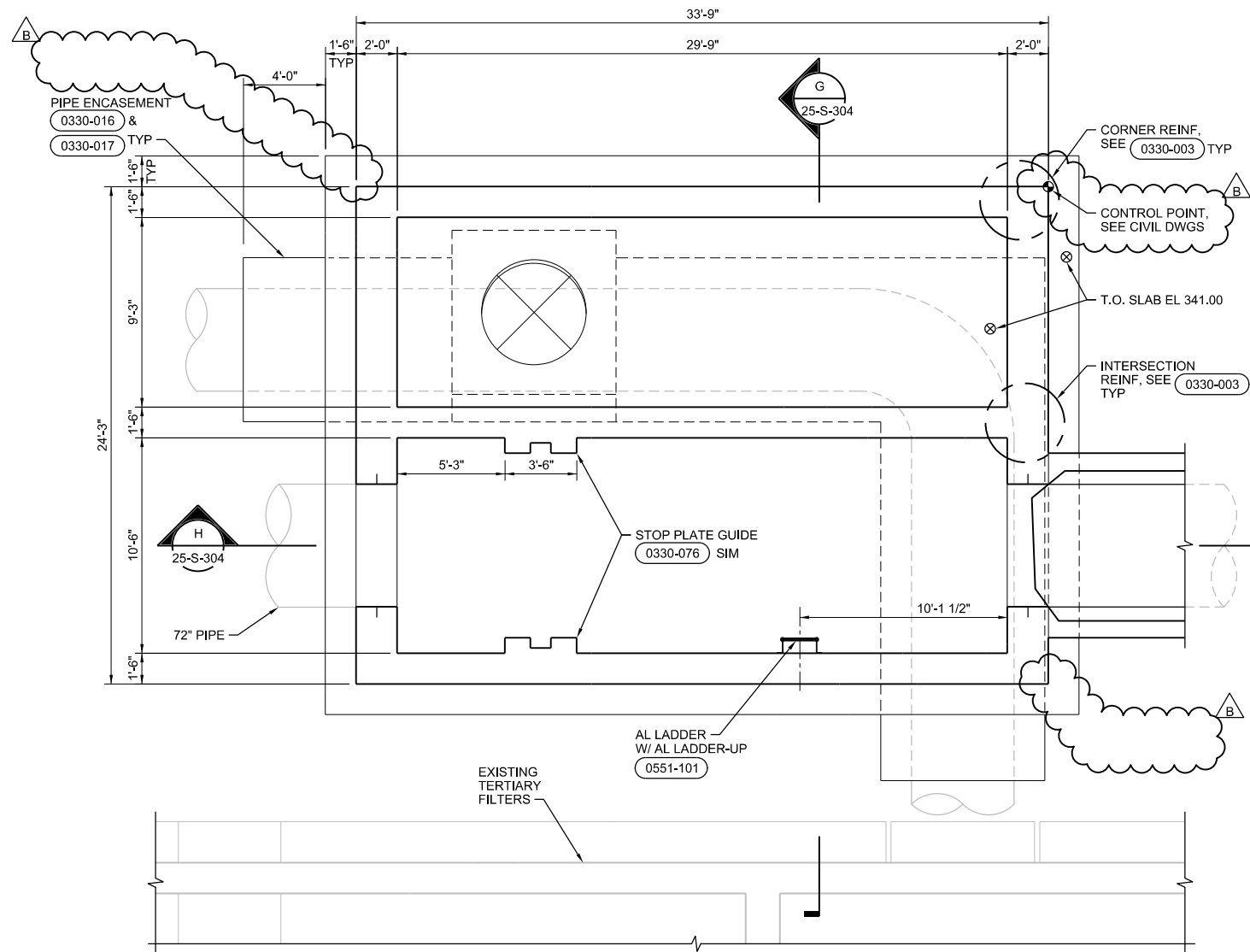
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
STRUCTURAL
TERTIARY FILTERS
FILTER NO. 7
FOUNDATION & INTERMEDIATE LEVEL PLANS

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 746 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: <i>[Signature]</i>	DATE: 12/03/2020 C70321 RCE#	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER PROJECT ENGINEER: THIEN-LONG TRAN
DESCRIPTION	BY	APPROVED
▲ Addendum B	CH	<i>[Signature]</i>
		DATE
		2/3/21
		FIRM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
		40381-2746-D

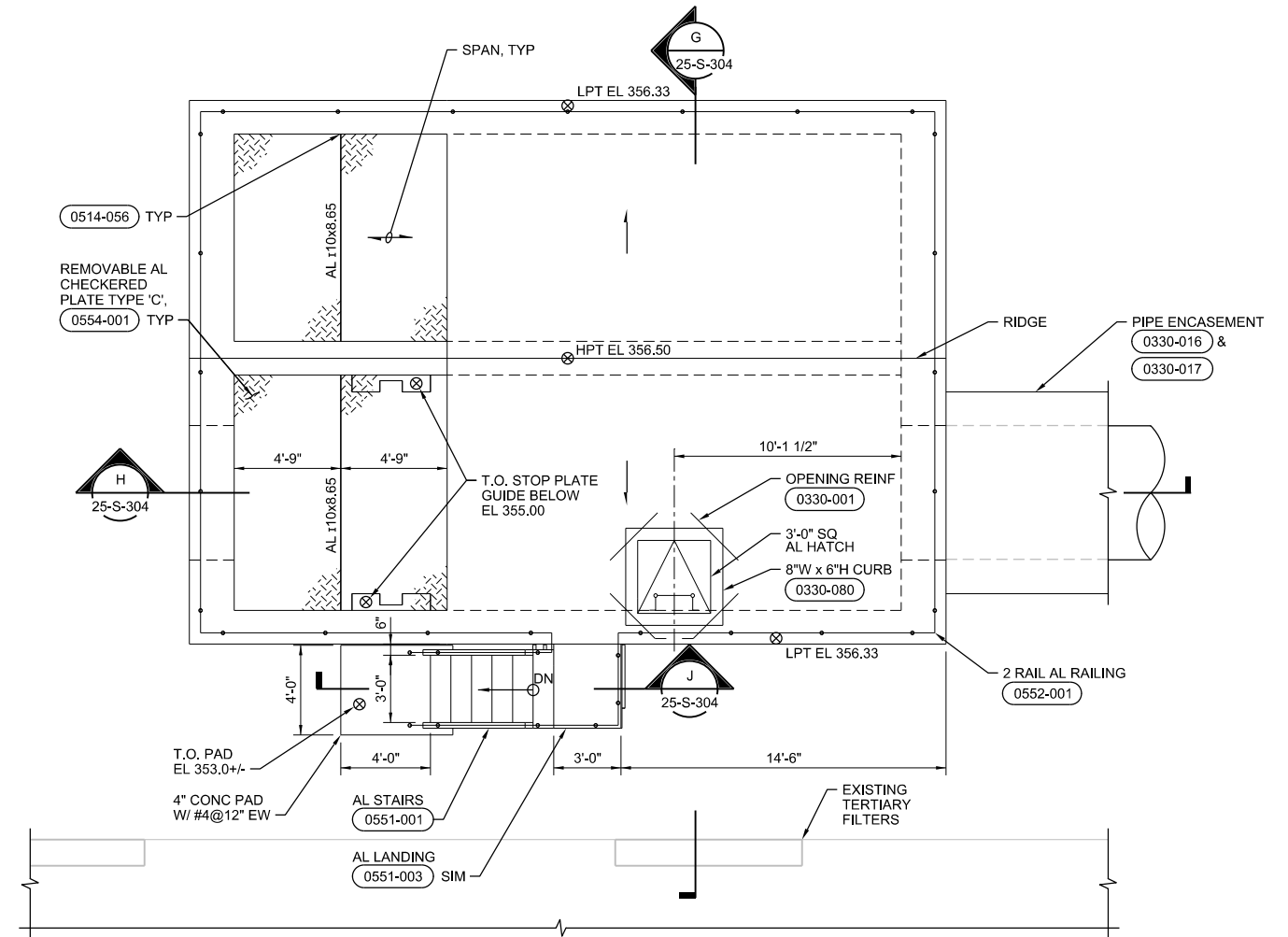
CONSULTANT

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL WALKER
No. 55625
STRUCTURAL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 01/26/2021



FOUNDATION PLAN
1/4"=1'-0"



GROUND LEVEL PLAN
1/4"=1'-0"

PK2-25-S-104

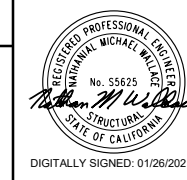
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
**STRUCTURAL
TERTIARY FILTERS
FILTER INFLUENT STRUCTURE
PLANS**

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 749 OF 1169 SHEETS

APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: <i>[Signature]</i>	DATE: 12/03/2020 C/70321	RCE#	PROJECT MANAGER MONIKA SMOCZYNSKI
DESCRIPTION Addendum B	BY CH	APPROVED <i>[Signature]</i>	DATE 2/3/21
PROJECT ENGINEER THIEN-LONG TRAN			260-1709
COORDINATE CCS27			1900-6269
COORDINATE CCS83			40381-2749-D

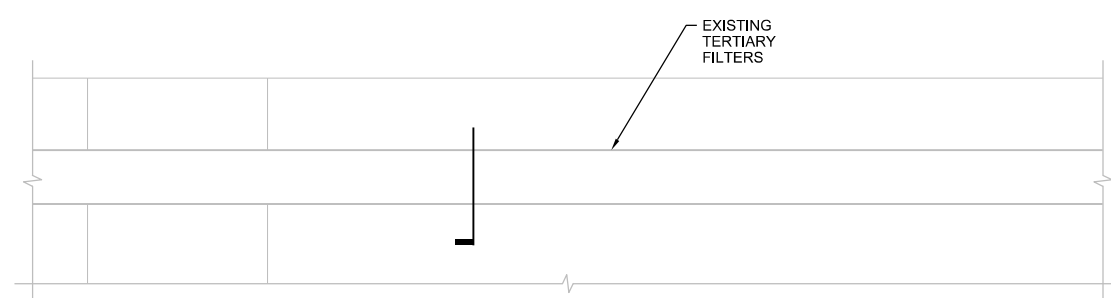
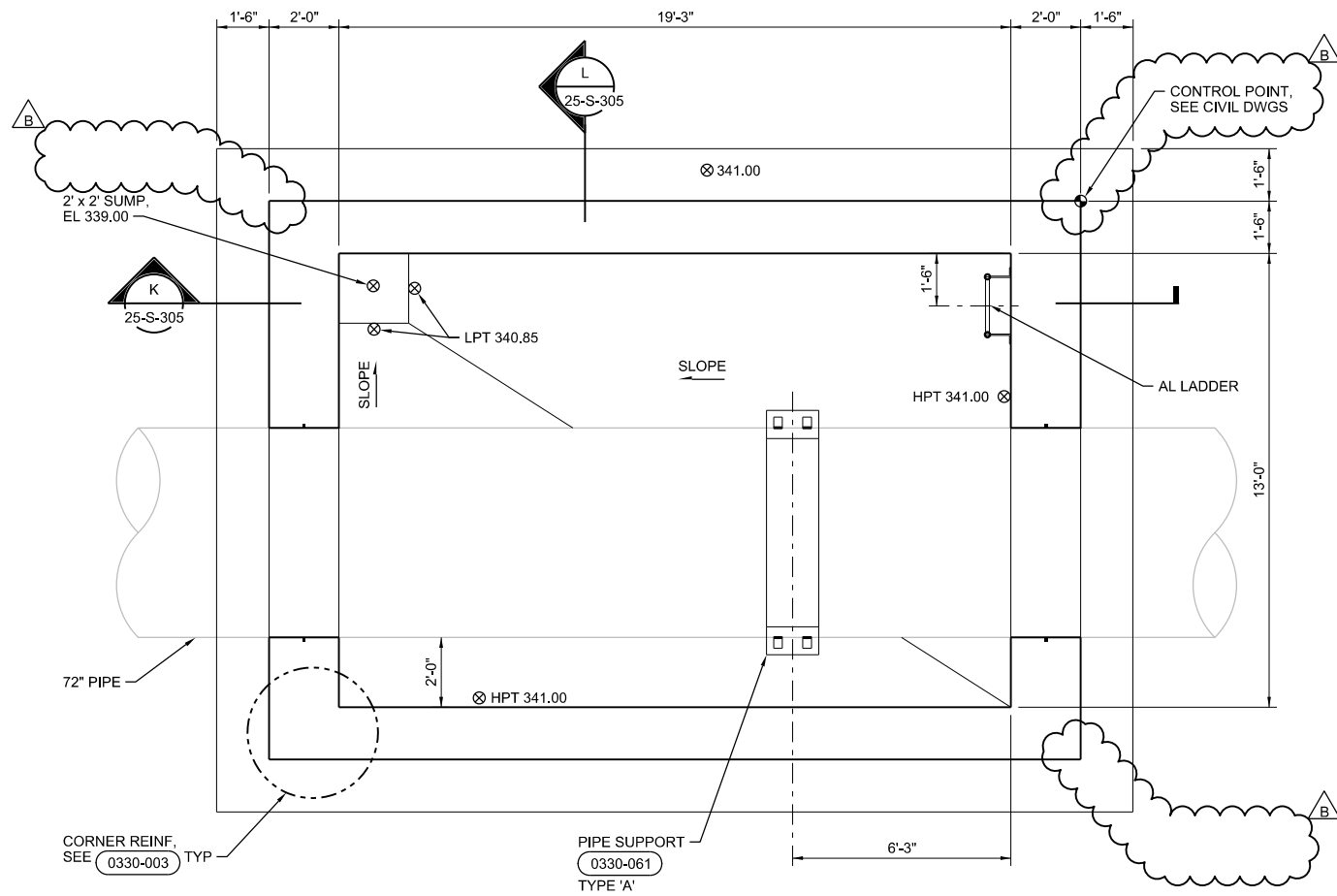
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

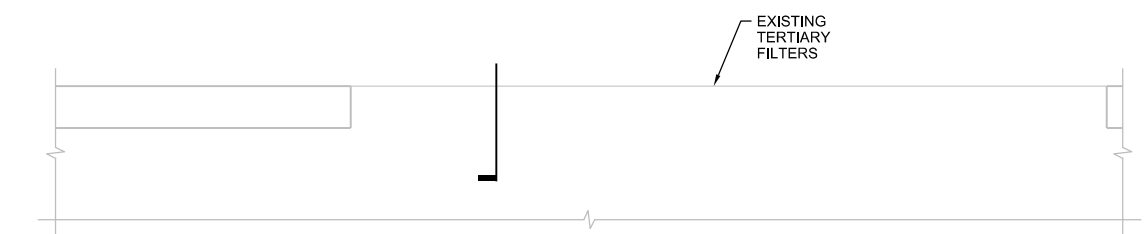
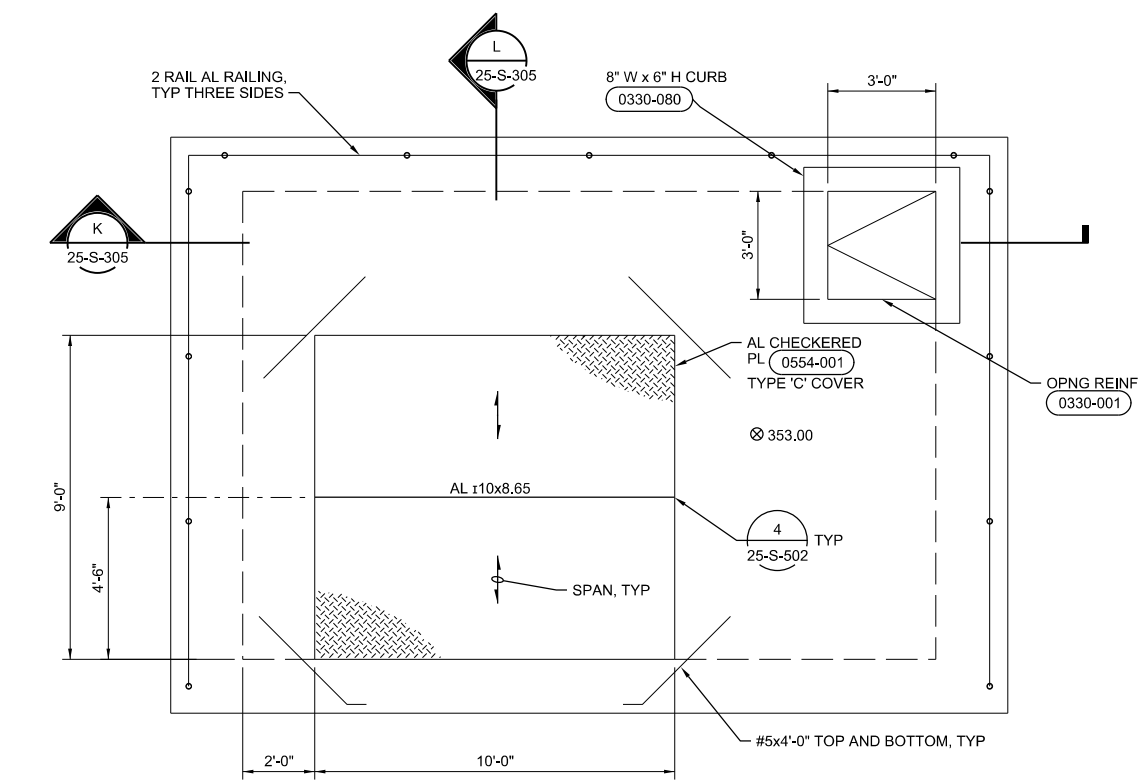


CONTRACTOR
INSPECTOR

DATE STARTED
DATE COMPLETED



LOWER LEVEL PLAN
3/8"=1'-0"



GROUND LEVEL PLAN
3/8"=1'-0"

PK2-25-S-105

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION STRUCTURAL TERTIARY FILTERS METER VAULT PLANS			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 750 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142	
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: <i>[Signature]</i>	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER	
DESCRIPTION Addendum B	BY CH	APPROVED <i>[Signature]</i>	DATE 2/3/21
PROJECT ENGINEER THIEN-LONG TRAN		PROJECT NUMBER 260-1709	
COORDINATE CCS27 COORDINATE 1900-6269		COORDINATE CCS83 COORDINATE 40381-2750-D	
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED	

CONSULTANT

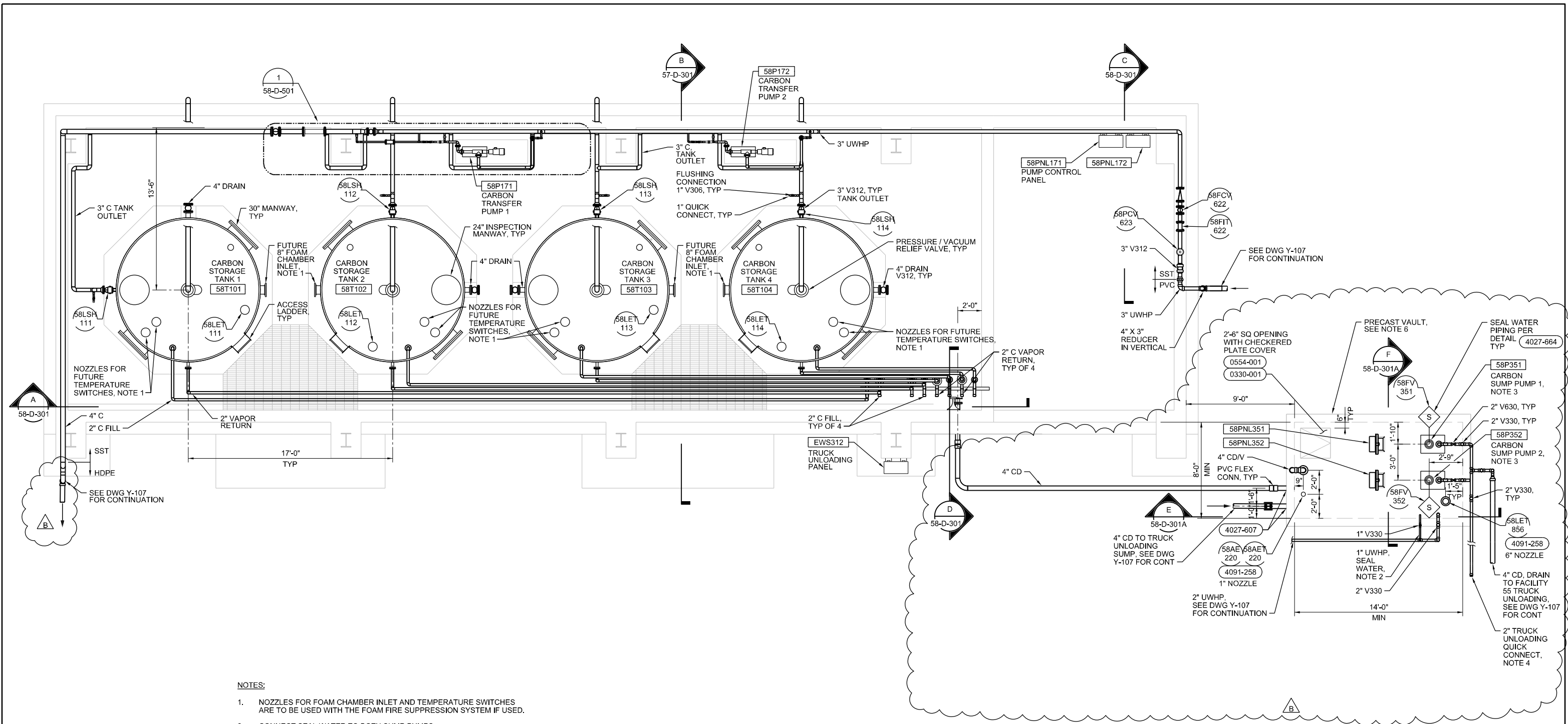
WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
 MICHAEL W. WILSON
 No. 55625
 STRUCTURAL
 STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/26/2021



NOTES:

1. NOZZLES FOR FOAM CHAMBER INLET AND TEMPERATURE SWITCHES ARE TO BE USED WITH THE FOAM FIRE SUPPRESSION SYSTEM IF USED.
2. CONNECT SEAL WATER TO BOTH SUMP PUMPS.
3. COORDINATE PUMP OPENING WITH APPROVED PUMP SUPPLIER.
4. TRUCK UNLOADING QUICK CONNECT SHALL EXTEND APPROXIMATELY 3" INTO THE ROAD, SO IF THERE IS A SPILL, IT CAN FLOW BACK INTO CHEMICAL SUMP SHOWN ON Y-137.
5. GROUNDING IS REQUIRED FOR LIGHTING SYSTEMS, PIPE RACKS, PUMPS, SUMP PUMPS, TANKS, PIPES, PLUMBING AND FOR CHEMICAL DELIVERY TRUCK.
6. FOR PRECAST VAULT DESIGN AND FABRICATION, SEE DESIGN CRITERIA IN GENERAL STRUCTURAL NOTE SHEETS AND SPECIFICATION 03 40 00 PRECAST CONCRETE.



FLOOR PLAN - OVERALL

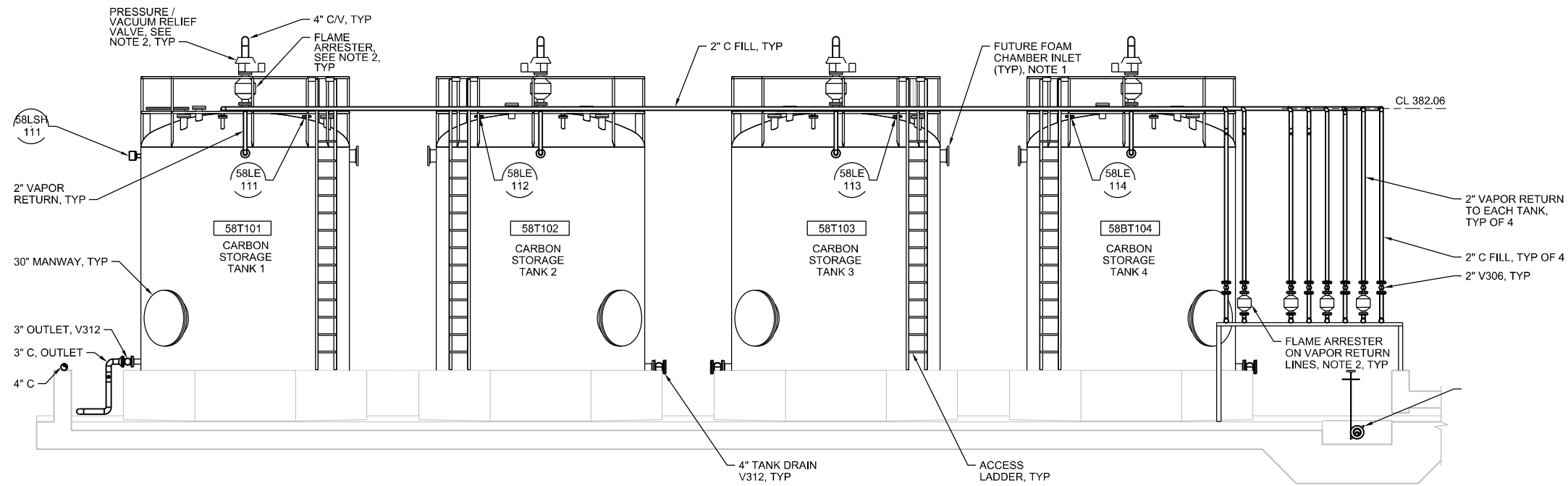
1/4"=1'-0"

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

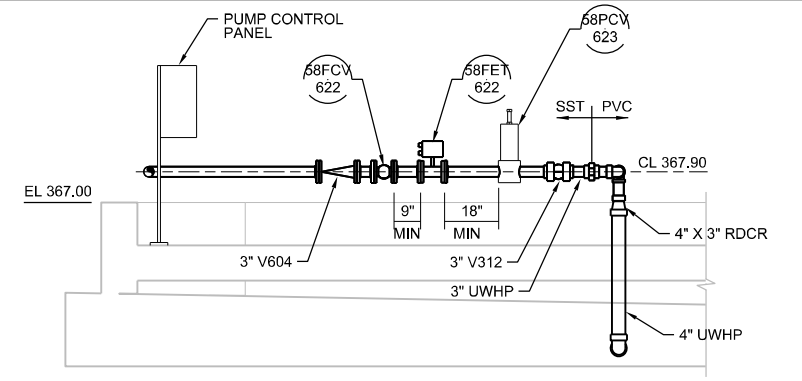


DIGITALLY SIGNED: 01/27/2021

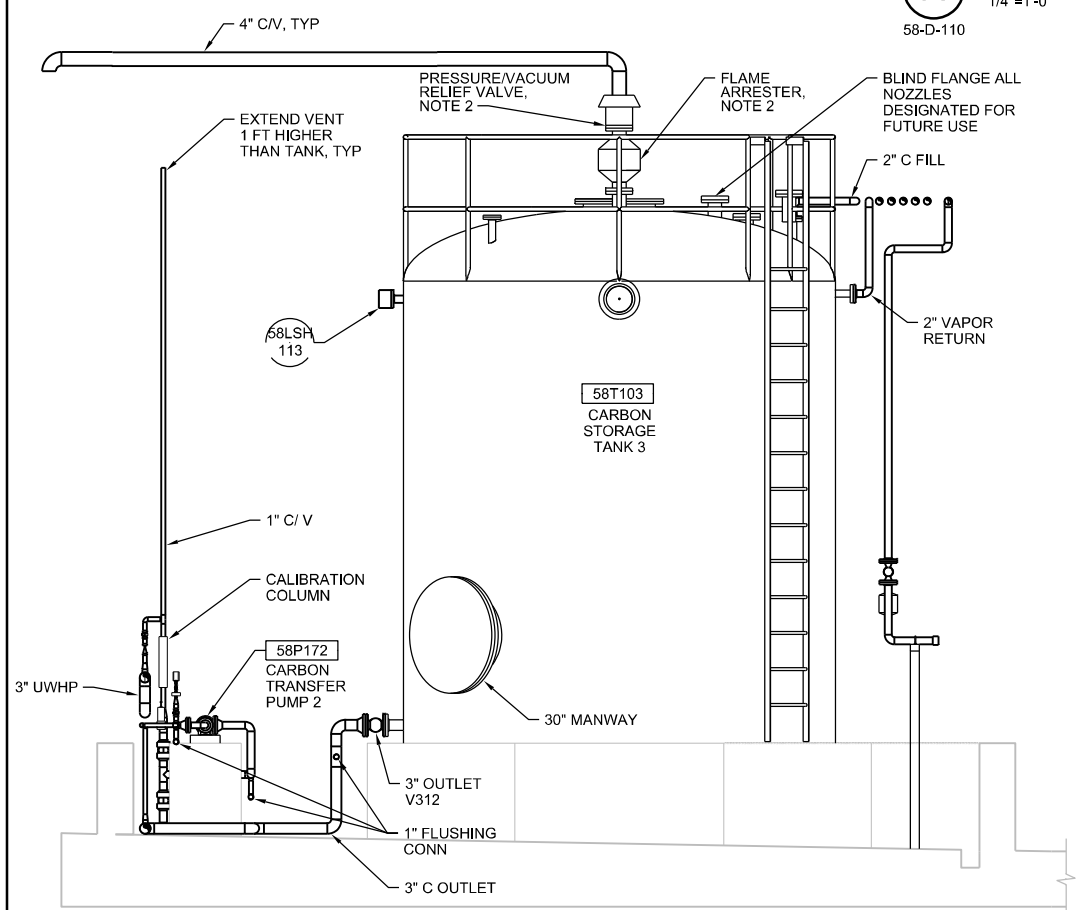
PK2-58-D-110				
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION PROCESS CARBON CHEMICAL FACILITY FLOOR PLAN - OVERALL				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 867 OF 1169 SHEETS	B-16149, S-17012 WBS B-15142			
APPROVED: <i>Andrew Demich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrew Demich DATE: 12/03/2020 C79321 RCE#	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER PROJECT ENGINEER: THIEN-LONG TRAN			
DESCRIPTION	BY	APPROVED	DATE	FIRM
▲ Addendum B	CH	<i>Andrew Demich</i>	2/3/21	260-1709 CCS27 COORDINATE 1900-6269 CCS33 COORDINATE
DATE STARTED				40381-2867-D
DATE COMPLETED				ADDENDUM B



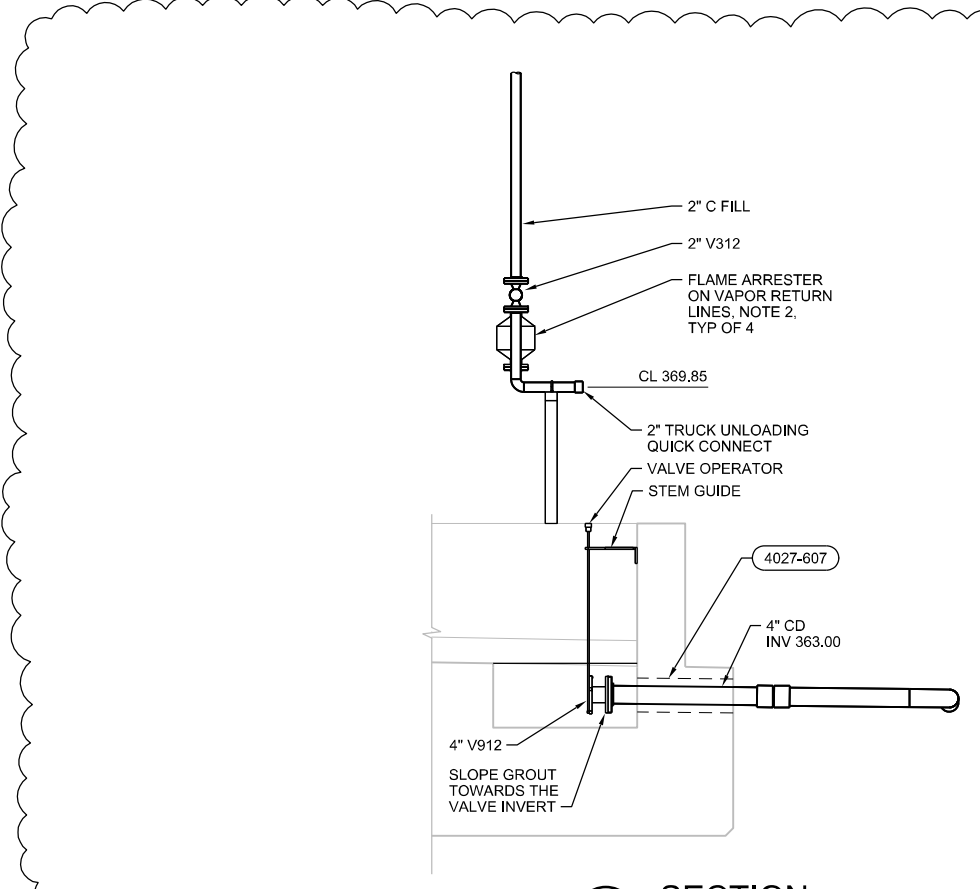
A SECTION
1/4"=1'-0"
58-D-110



C SECTION
3/8"=1'-0"
58-D-110



B SECTION
3/8"=1'-0"
58-D-110



D SECTION
1/2"=1'-0"
58-D-110

- NOTES:**
1. NOZZLES FOR FOAM CHAMBER INLET AND TEMPERATURE SWITCHES ARE TO BE USED WITH THE FOAM FIRE SUPPRESSION SYSTEM IF USED. FLANGE FOR FUTURE USE.
 2. FOR FLAME ARRESTER AND PRESSURE/VACUUM RELIEF VALVE, SEE SPECIFICATION 33 16 13.10 FOR REQUIREMENTS.
 3. COAT INTERIOR OF CORE DRILL WITH SYSTEM NO. 19A PER SECTION 09 00 00. GROUT ANNULAR SPACE, BOTH SIDES OF WALL.

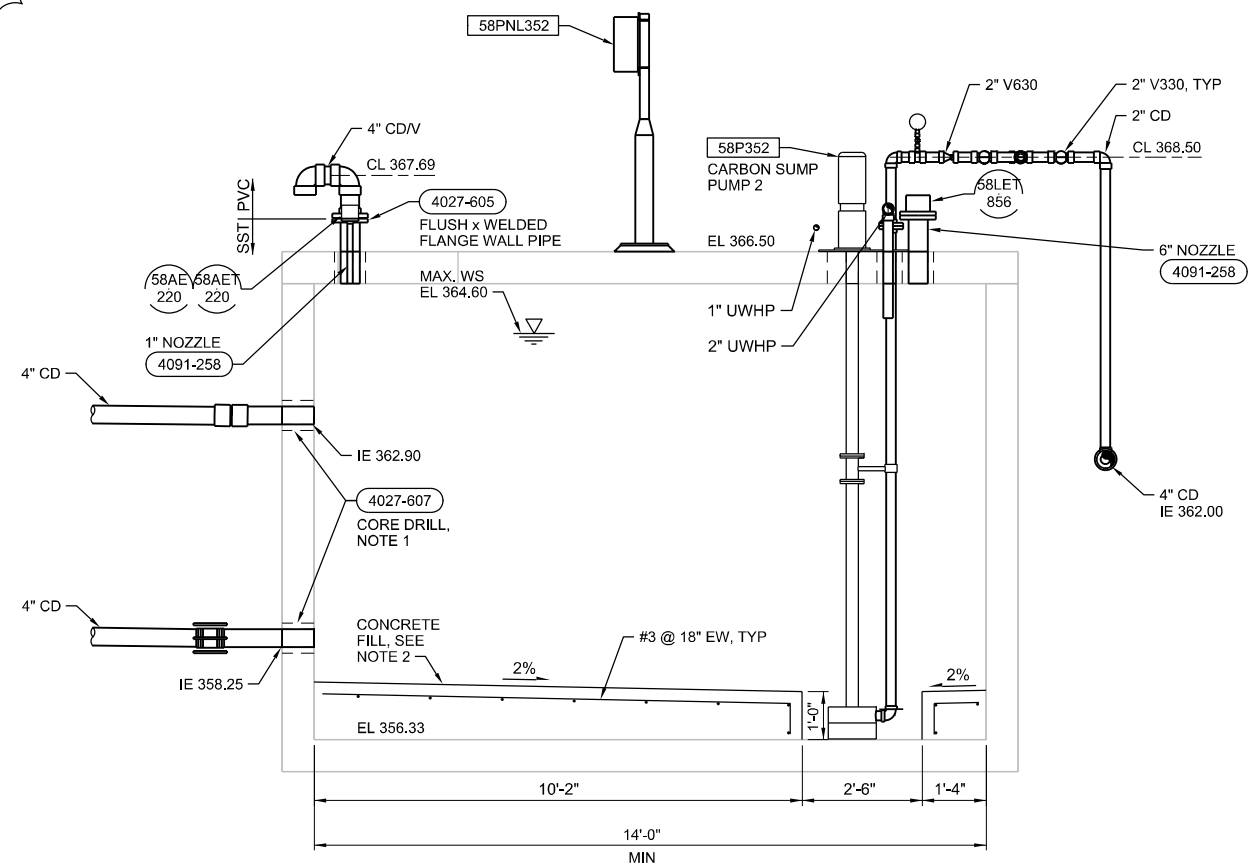
WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

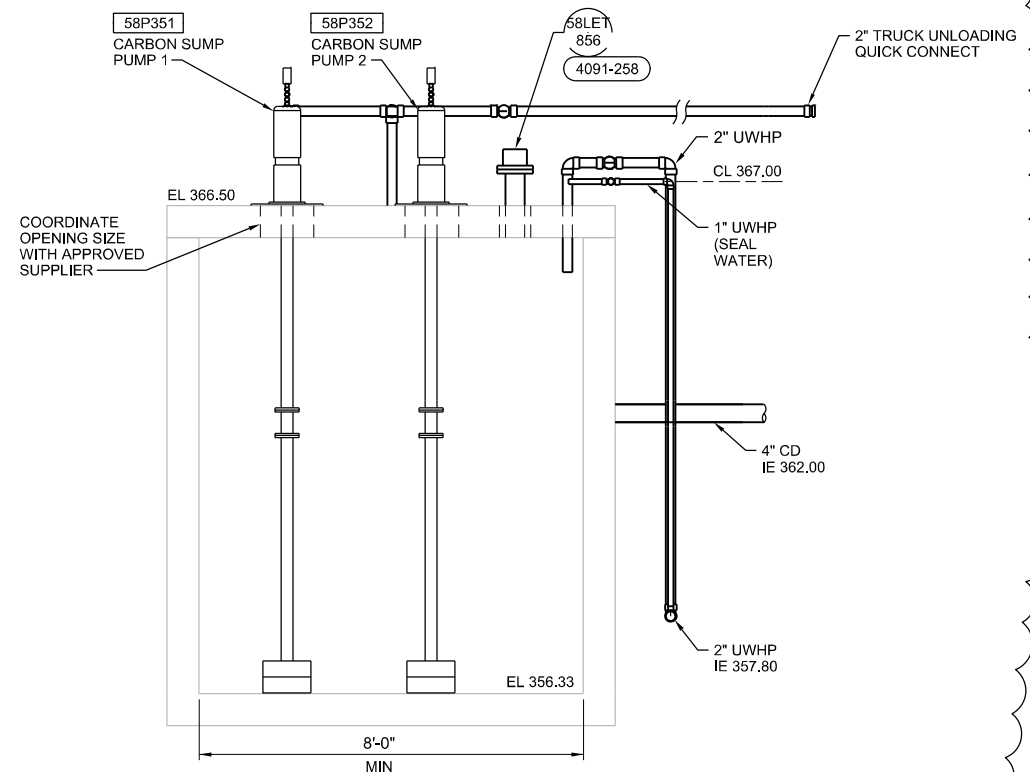


PK2-58-D-301	
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION	
PROCESS CARBON CHEMICAL FACILITY SECTIONS	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 888 OF 1169 SHEETS	B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrew Demich</i> FOR CITY ENGINEER DATE: 12/03/2020 C/70321	PROJECT MANAGER MONIKA SMOCZYNSKI
PRINT DCE NAME: <i>Andrew Demich</i> RCE#	PROJECT ENGINEER THIEN-LONG TRAN
DESCRIPTION Addendum B	BY CH
APPROVED <i>Andrew Demich</i>	DATE 2/3/21
FILM	260-1709
	1900-6269
	40381-2868-D
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED



E SECTION
1/2"=1'-0"
58-D-110

- NOTES:**
1. COAT INTERIOR OF CORE DRILL WITH SYSTEM NO. 19A PER SECTION 09 90 00. GROUT ANNULAR SPACE, BOTH SIDES OF WALL.
 2. CONTRACTOR TO PROVIDE CONCRETE FILL AFTER PRECAST STRUCTURE IS INSTALLED.



F SECTION
1/2"=1'-0"
58-D-110

PK2-58-D-302

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION PROCESS CARBON CHEMICAL FACILITY SECTIONS											
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 868A OF 1169 SHEETS	B-16149, S-17012 WBS B-15142										
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: <i>[Name]</i> DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER PROJECT ENGINEER: THIEN-LONG TRAN										
<table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> <th>FIRM</th> </tr> </thead> <tbody> <tr> <td>Addendum B</td> <td>CH</td> <td><i>[Signature]</i></td> <td>2/3/21</td> <td></td> </tr> </tbody> </table>	DESCRIPTION	BY	APPROVED	DATE	FIRM	Addendum B	CH	<i>[Signature]</i>	2/3/21		260-1709 CCS27 COORDINATE 1900-6269 CCS33 COORDINATE
DESCRIPTION	BY	APPROVED	DATE	FIRM							
Addendum B	CH	<i>[Signature]</i>	2/3/21								
CONTRACTOR: _____ INSPECTOR: _____	DATE STARTED: _____ DATE COMPLETED: _____										

CONSULTANT

WARNING

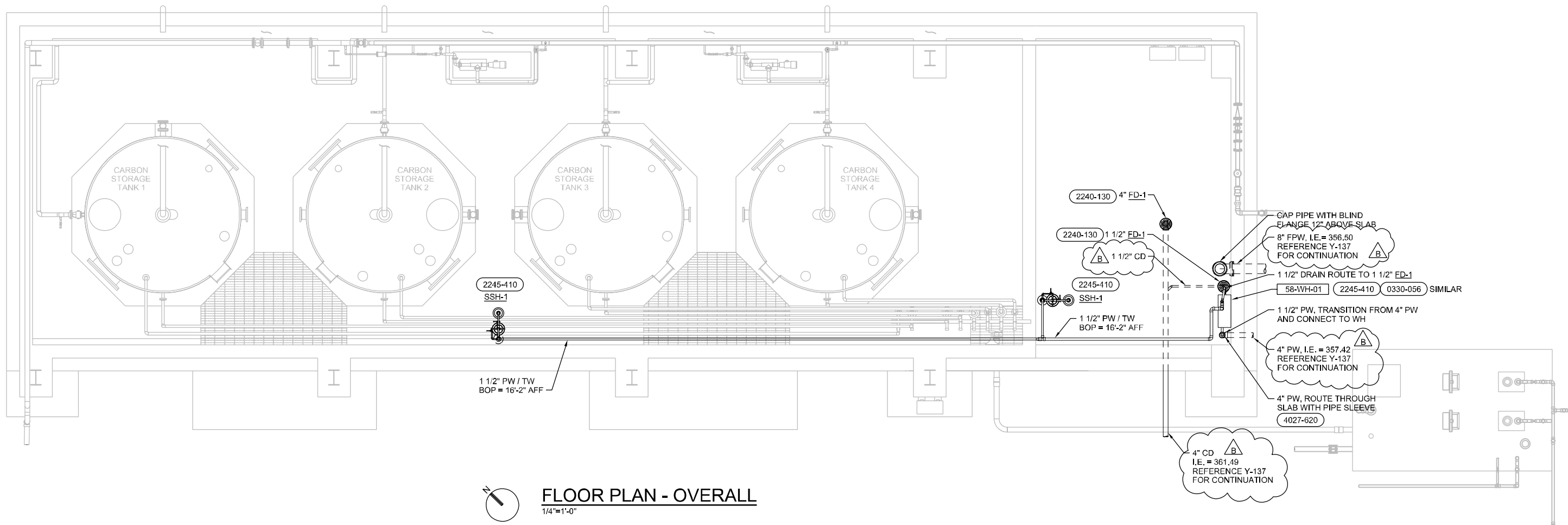
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

*ch2m*SM

DIGITALLY SIGNED: 01/27/2021

GENERAL NOTE:

1. INSULATE EXPOSED PW AND PW/TW PIPING PER SPECIFICATION SECTION 22 07 00.
2. GROUNDING IS REQUIRED FOR LIGHTING SYSTEMS, PIPE RACKS, SUMP PUMPS, TANKS, PIPES, PLUMBING AND FOR CHEMICAL DELIVERY TRUCK.



FLOOR PLAN - OVERALL
1/4"=1'-0"

WATER HEATER									
TAG	SERVICE	TYPE	TEMP. RISE (DEGREES F)	FLOW RATE (GPM)	HEATING CAPACITY (KW)	ELECTRICAL (V/PH/Hz)	MAX DRAW (A)	BASIS OF DESIGN	
								MFR	MODEL
58-WH-01	SAFETY SHOWER	ELECTRIC	30	23	108	480/3/60	130	KELTECH	SNA

PK2-58-P-110

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

PLUMBING

CARBON CHEMICAL FACILITY

FLOOR PLAN - OVERALL

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 870 OF 1169 SHEETS

WBS: B-16149, S-17012
B-15142

APPROVED: *Andrea Demich* 12/03/2020
FOR CITY ENGINEER: *Andrea Demich* DATE: 12/03/20
PRINT DCE NAME: *Andrea Demich* RCE#

PROJECT MANAGER: **MONIKA SMOCZYNSKI**

PROJECT ENGINEER: **THIEN-LONG TRAN**

DESCRIPTION	BY	APPROVED	DATE	FIRM
Addendum B	CH	<i>Andrea Demich</i>	2/3/21	

260-1709
CCS27 COORDINATE
1900-6269
CCS83 COORDINATE

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

40381-2870-D

CONSULTANT

ch2m

REGISTERED PROFESSIONAL ENGINEER
THEODORE JAMES PRICE
36413
MECHANICAL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 27 JAN 2021

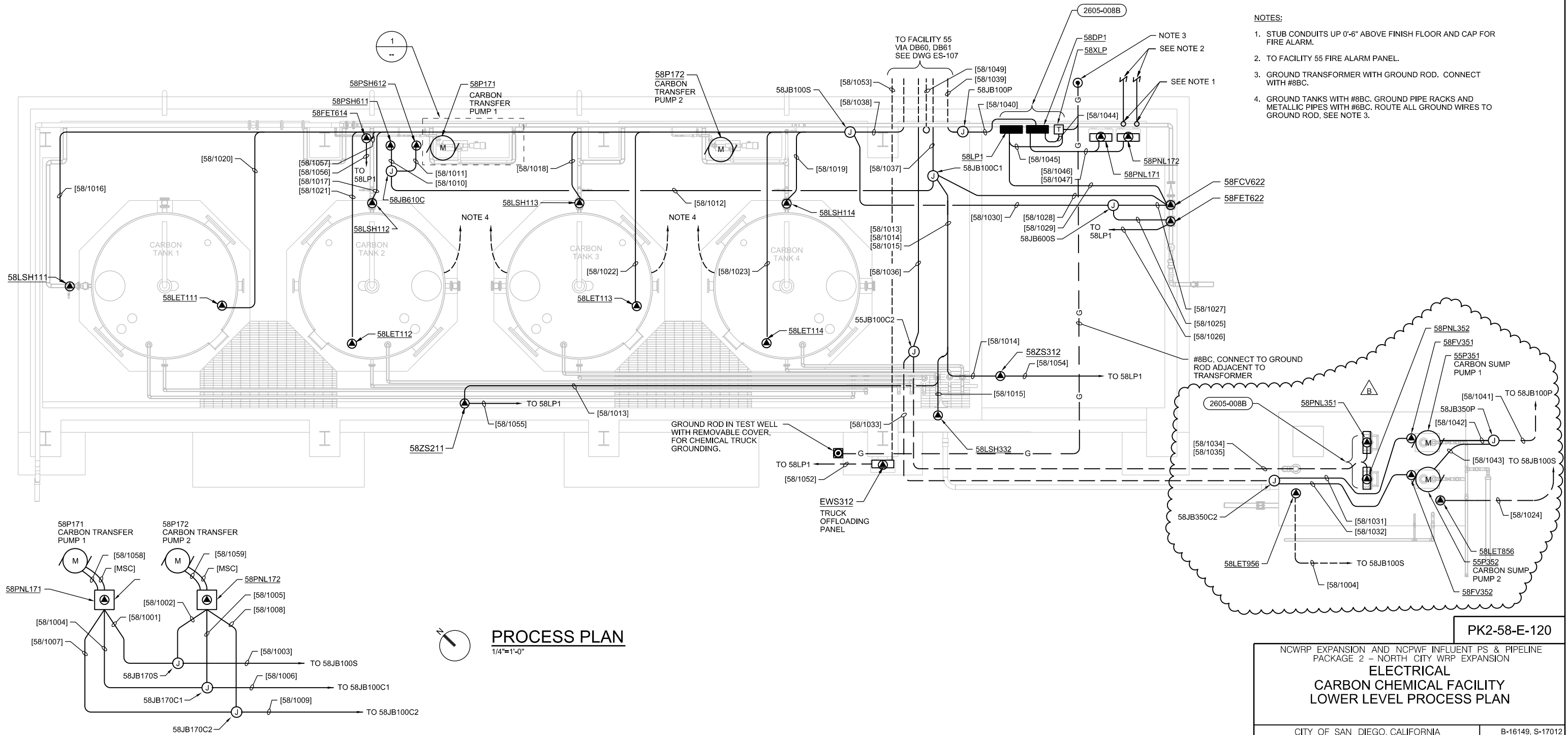
WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

GENERAL NOTES:

- A. REFER TO THE AREA CLASSIFICATION AND MATERIAL TABLE FOR HAZARDOUS AREA CLASSIFICATION EXTENTS AND MATERIAL SELECTIONS FOR CONDUIT, BOXES AND OTHER ELECTRICAL COMPONENTS, SEE DWG G-061.062.
- B. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700 SERIES.
- C. SEE PANEL SCHEDULES, SEE DWG E-700 SERIES.

NOTES:

1. STUB CONDUITS UP 0'-6" ABOVE FINISH FLOOR AND CAP FOR FIRE ALARM.
2. TO FACILITY 55 FIRE ALARM PANEL.
3. GROUND TRANSFORMER WITH GROUND ROD. CONNECT WITH #8BC.
4. GROUND TANKS WITH #8BC. GROUND PIPE RACKS AND METALLIC PIPES WITH #8BC. ROUTE ALL GROUND WIRES TO GROUND ROD, SEE NOTE 3.



1 CARBON TRANSFER PUMPS RISER
NTS

PROCESS PLAN
1/4"=1'-0"

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

DIGITALLY SIGNED:
01/26/2021

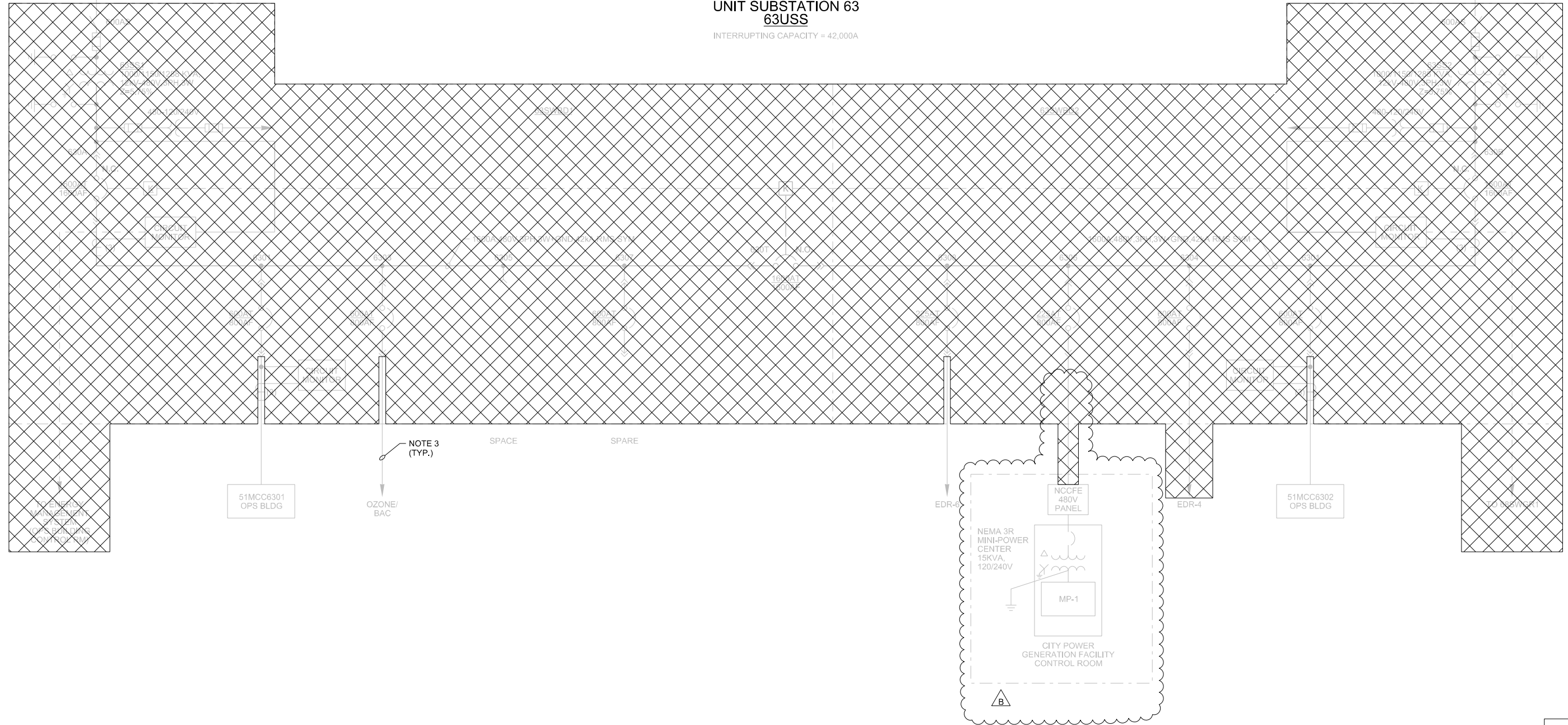
PK2-58-E-120 NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION ELECTRICAL CARBON CHEMICAL FACILITY LOWER LEVEL PROCESS PLAN		CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 872 OF 1169 SHEETS	B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich DATE: 12/03/2020 RCE#: C70321	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER	PROJECT ENGINEER: THIEN-LONG TRAN	
DESCRIPTION Addendum B	BY CH	APPROVED <i>Andrea Demich</i>	DATE 2/3/21
			FILM 260-1709 CCS27 COORDINATE 1900-6269 CCS33 COORDINATE
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED	40381-2872-D

12KV, 3PH
FROM 68SWGR1
SEE DWG 68-EX-622

12KV, 3PH
FROM 68SWGR2
SEE DWG 68-EX-623

UNIT SUBSTATION 63
63USS

INTERRUPTING CAPACITY = 42,000A



NOTE 3
(TYP.)

SPACE SPARE

DEMOLITION NOTES:

1. DEMOLISH EXISTING SUBSTATION POWER MONITORING NETWORK INCLUDING ALL FIELD CABLING.
2. PROTECT EXISTING CONDUITS TO BE RE-USED FOR NEW NETWORK WIRING.
3. FOR EXISTING LOADS NOT SHOWN TO BE DEMOLISHED, PROTECT FEEDER CONDUCTORS FOR RECONNECTION TO NEW SUBSTATION.

WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

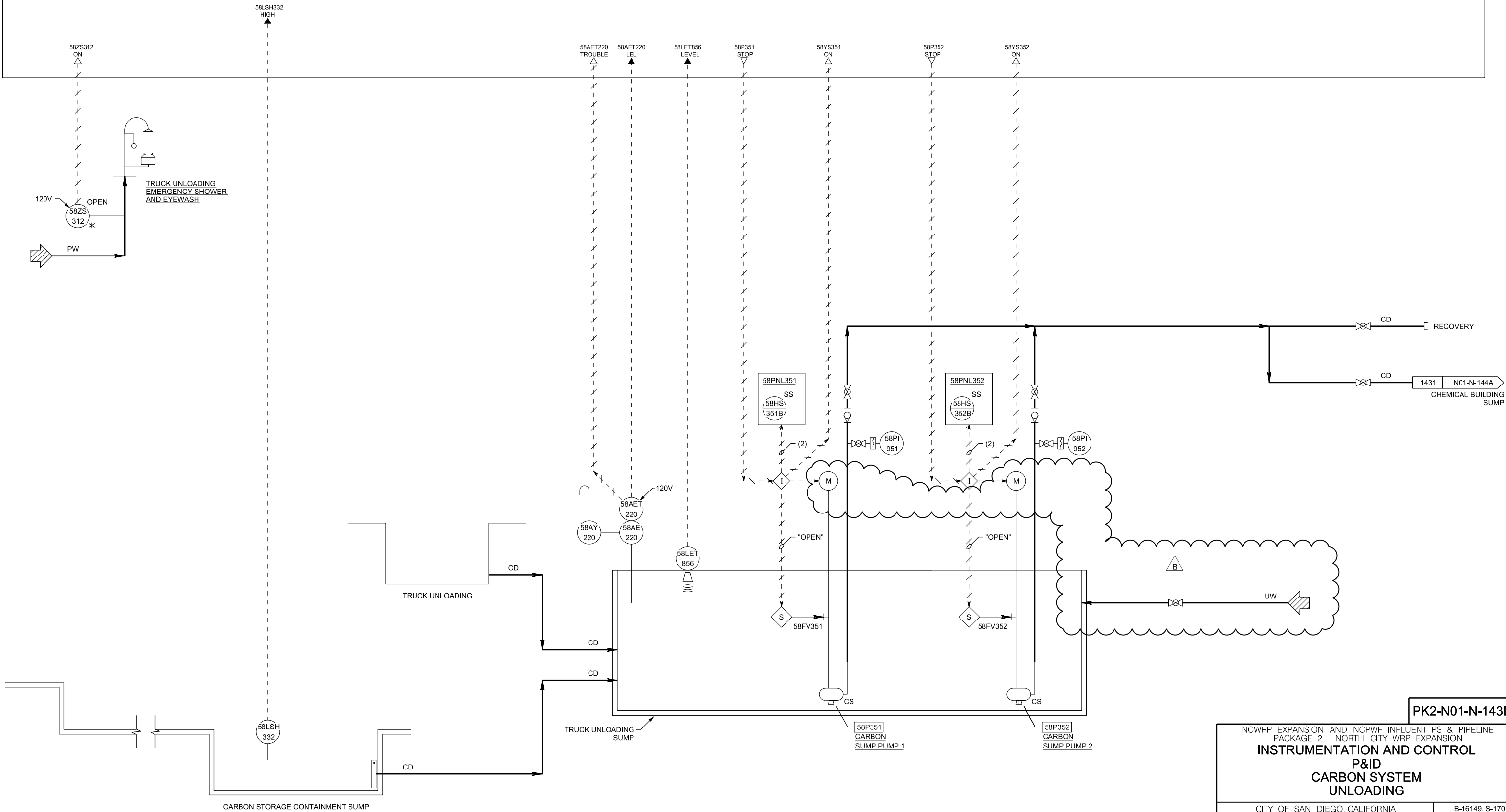
CONSULTANT



DIGITALLY SIGNED:
01/26/2021
CONTRACTOR _____
INSPECTOR _____

PK2-63-EX-621

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION ELECTRICAL DEMOLITION SUBSTATION 63 ONLINE																							
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 885 OF 1169 SHEETS		WBS B-16149, S-17012 B-15142																					
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER																					
<table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> <th>FIRM</th> </tr> </thead> <tbody> <tr> <td>Addendum B</td> <td>CH</td> <td><i>Andrea Demich</i></td> <td>2/3/21</td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	DESCRIPTION	BY	APPROVED	DATE	FIRM	Addendum B	CH	<i>Andrea Demich</i>	2/3/21												OFFICE: THEN-LONG TRAN PROJECT ENGINEER 260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE		
DESCRIPTION	BY	APPROVED	DATE	FIRM																			
Addendum B	CH	<i>Andrea Demich</i>	2/3/21																				
DATE STARTED _____ DATE COMPLETED _____		40381-2885-D																					



PK2-N01-N-143D

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 – NORTH CITY WRP EXPANSION
INSTRUMENTATION AND CONTROL
P&ID
CARBON SYSTEM
UNLOADING

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 1048 OF 1169 SHEETS

APPROVED: <i>[Signature]</i> FOR CITY ENGINEER	DATE 12/03/2020	PROJECT MANAGER MONIKA SMO CZYNSKI
PRINT DCE NAME Andrea Demich	RCE# C70321	PROJECT ENGINEER THEIN-LONG TRAN
DESCRIPTION Addendum B	BY CH	DATE 2/3/21
	APPROVED <i>[Signature]</i>	FILM
		260-1709
		1900-6269
		CCS27 COORDINATE
		CCS83 COORDINATE

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CONSULTANT



DIGITALLY SIGNED: 01/27/2021

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

ADDENDUM B

**Table 10-5
Mitigation Measures – North City Pure Water Facility Influent Pump Station**

Mitigation Measure	Timing of Mitigation			Responsible Person	Location/Notes
	Pre Const.	During Const.	Post Const.		
MM-AQ-1 (construction BMPs)		X		Construction Manager	Entire site
MM-AQ-2 (construction NO _x)		X		Construction Manager	Entire site
MM-BIO-4 (Coastal California Gnatcatcher)	X	X		City of San Diego	Coastal sage scrub within the facility within MCAS Miramar and within the MHPA south of Miramar Road.
MM-BIO-9a (Qualified biologist)	X			Owner/permittee	Entire site
MM-BIO-9b (preconstruction meeting)	X			City of San Diego	Entire site
MM-BIO-9c (documentation)	X	X	X	Owner/Permittee	Entire site
MM-BIO-9d (biological construction mitigation/monitoring exhibit)	X			City of San Diego	Entire site
MM-BIO-9e (construction fencing)	X			City of San Diego	Entire site
MM-BIO-9f (on-site education)	X			City of San Diego	Entire site
MM-BIO-9g (biological monitoring)		X		City of San Diego	Entire site
MM-BIO-9j (BMPs/erosion/runoff)	X	X	X	City of San Diego	Entire site
MM-BIO-9k (toxics/project staging areas/equipment storage)		X	X	Construction Manager/owner	Entire site
MM-HAZ-2 (hazardous material reporting form)			X	City of San Diego	Entire site
MM-HIS-3 (archaeological monitoring)	X	X	X	Principal Investigator (Archaeologist)	Entire site
MM-NOI-4 (noise and vibration study)	X			Construction Contractor	Entire site
MM-PALEO-1 (paleontological monitoring)	X	X	X	Principal Investigator (Paleontologist)	Entire site

April 2017 10-35 9420-04

PK3-G-005B

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 3 – NCPWF IPS AND CONVEYANCE

**GENERAL
MITIGATION MONITORING AND
REPORTING PROGRAM (PAGES 35)**

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 5B OF 164 SHEETS

WBS B-15142

APPROVED: *Andrew Demich* DATE: 12/03/2020
FOR CITY ENGINEER: *Andrew Demich* DATE: 07/03/21
PRINT DCE NAME: RCE#

SUBMITTED BY: **MONIKA SMOCZYNSK**
PROJECT MANAGER
PROJECT ENGINEER: **THIEN-LONG TRAN**

DESCRIPTION	BY	APPROVED	DATE	FILM
▲ Addendum B	CH	<i>Andrew Demich</i>	2/3/21	

260-1709
CCS27 COORDINATE
1900-6269
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

40381-3005B-D

CONSTRUCTION CHANGE /ADDENDUM			
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.
▲ B ADDENDUM B	01/27	5B, 31, 45-46, 49, 97,	

WARNING
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FOR REFERENCE ONLY

LEGEND	SERVICE	SIZE (IN.) (NOTE 1)	SPEC SECTION (NOTE 2)	MATERIAL (NOTE 3)	INSTALLATION	TEST PRESSURE, TYPE (PSIG, X) (NOTES 4 AND 9)	ALLOWABLE LEAKAGE (NOTE 8)	MAXIMUM OPERATING PRESSURE (PSIG)	MAXIMUM OPERATING TEMP. (DEG. F)	LINING AND COATING (NOTE 10 AND 11)	REMARKS
AHP	AIR HIGH PRESSURE	ALL	40 27 00.03	CS	EXPOSED	150, P	(C)	110	80	BARE / NO. 5	
BR	BRINE	24	33 05 01.10	HDPE	BURIED	37.5, H	(A)	25	80	NA	
BW	BLENDING WATER	24	33 05 01.10	HDPE	BURIED	37.5, H	(A)	25	80	NA	
CND	CONDENSATE DRAIN, HVAC EQUIPMENT	ALL	40 27 00.10	PVC	ALL	H	(A)	GRAVITY	AMBIENT	NA	
CW	COMBINED WASTE	54	33 05 01.10	NOTE 12	BURIED	37.5, H	(A)	25	80	NOTE 10	
NI	NCPWF INFLUENT	>=24	33 05 01.01	WS	BURIED	65, H	(A)	50	83	CEMENT MORTAR / TAPE	1. 20-INCH WSP REQUIRED AS SHOWN ON THE DRAWINGS. 2. SECTION 33 05 01.02 FOR NI APPLIES TO NI BLOWOFF PIPING. SEE DWG PK3-CV-512. APPLY COATING PER SECTION 33 05 01.02
		<=20	40 27 00.01, 33 05 01.02	CLDI	BURIED AND EXPOSED		(A)			CEMENT MORTAR / NO.4	
										CEMENT MORTAR / SEE 33 05 01.02	
OD	OVERFLOW DRAIN, ROOF	ALL	22 10 01.03	CISP	EXPOSED	NOTE 5	NOTE 5	GRAVITY	AMBIENT	NA	
PERF	PERFORATED STORM DRAIN	8"	33 46 00	PVC, SDR 35	BURIED	NA	NA	GRAVITY	NA	NA	
SA	SERVICE AIR	ALL	40 27 00.07	GSP	ALL	175, P	(C)	150	80	BARE/SYSTEM NO. 10	
PD	PLANT DRAIN	ALL	40 27 00.10	PVC	ALL	H	(A)	GRAVITY	NA	NA	BURIED PIPELINE OUTSIDE OF THE PUMP STATION SHALL CONFORM TO SECTION 33 05 01.14, SEE NOTE 5
PDV	PLANT DRAIN VENT	ALL	NOTE 6	NOTE 6	ALL	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NA	SEE NOTE 5
RD	ROOF DRAIN	ALL	22 10 01.03	CISP	EXPOSED	NOTE 5	NOTE 5	GRAVITY	AMBIENT	NA	SEE NOTE 5
RFL	REFRIGERANT LIQUID	ALL	23 23 00	CU	ALL	SEE 23 23 00	(A)	SEE 23 23 00	SEE 23 23 00	NA	
RFS	REFRIGERANT SUCTION	ALL	23 23 00	CU	ALL	SEE 23 23 00	(A)	SEE 23 23 00	SEE 23 23 00	NA	
SDR	STORM DRAIN	>=18	33 41 01	RCP, D-LOAD PER PLAN	BURIED	13, H	(B)	GRAVITY	NA	NA	
		<=8	33 46 00	PE	BURIED	NONE	(B)	GRAVITY	NA	NA	PERFORATED DRAIN LINES PER DRAWINGS
		<=8	40 27 00.10	PVC	BURIED	NONE	(B)	GRAVITY	NA	NA	PVC PIPE FOR UNDERDRAIN PER DRAWINGS
UWHP	UTILITY WATER, HIGH PRESSURE	<=3	40 27 00.10	PVC	ALL	240, H	(A)	160	83	NA	
VT	VENT, PROCESS	ALL	33 05 01.01	WS	EXPOSED	NOTE 7	(A)	GRAVITY	83	NO. 29 / NO. 4	

NOTES:

1. SYMBOLS:
 < : LESS THAN
 > : GREATER THAN
 <= : LESS THAN OR EQUAL TO
 >= : GREATER THAN OR EQUAL TO

2. PIPE MATERIAL AND INSTALLATION REQUIREMENTS IN ACCORDANCE WITH THE SPECIFICATIONS SHOWN IN THE SCHEDULE

3. PIPE MATERIALS: ANY DEVIATIONS FROM THE DESIGNATED MATERIALS IN THIS SCHEDULE SHALL BE NOTED ON THE DRAWINGS.

CS	CARBON STEEL
CISP	CAST IRON SOIL PIPE
CLDI	CEMENT-LINED DUCTILE IRON
CU	COPPER
GSP	GALVANIZED STEEL
PE	POLYETHYLENE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
SST	STAINLESS STEEL
STL	MILL TYPE STEEL
VCP	VITRIFIED CLAY PIPE
WS	WELDED STEEL

4. TESTING TYPE:
 X=H : HYDROSTATIC TEST
 X=P : PNEUMATIC TEST

HYDROSTATIC TEST REQUIREMENTS ARE SPECIFIED IN THE RESPECTIVE SPECIFICATION SECTION INDICATED FOR EACH PIPE MATERIAL IN THIS TABLE. SEE NOTE 2.

5. INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE

6. VENT, OVERFLOW, AND DRAIN PIPING FOR PROCESS SERVICES SHALL BE THE SAME MATERIAL AS THE ASSOCIATED SERVICE PIPING. THIS PIPING IS IDENTIFIED BY A TWO SYMBOL DESIGNATION. THE FIRST SYMBOL SHALL INDICATE THE PIPING MATERIALS TO BE USED.

7. HYDROSTATIC TEST WITH WATER SURFACE 5 FEET ABOVE MAXIMUM OPERATING PRESSURE SHOWN.

8. ALLOWABLE LEAKAGE SHALL BE AS FOLLOWS:

- (A) PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE.
- (B) NOT MORE THAN 0.02 GALLONS PER HOUR PER INCH DIAMETER PER 100 FEET OF BURIED PIPE.
- (C) PIPES SO DESIGNATED SHALL SHOW A LOSS OF PRESSURE NOT MORE THAN 5 PERCENT OVER A PERIOD OF 2 HOURS.
- (D) PIPES SO DESIGNATED SHALL SHOW A LOSS OF VACUUM NOT MORE THAN 4 INCHES MERCURY COLUMN OVER A PERIOD OF 2 HOURS.

9. TEST PIPING SYSTEM TO TEST PRESSURE INDICATED WITH EXPANSION JOINTS ISOLATED FROM THE PIPING SYSTEM TO AVOID THEIR EXPOSURE TO OVERPRESSURE. EXPANSION JOINTS SHALL BE INITIAL SERVICE LEAK TESTED AT AT THE OPERATING PRESSURES SHOWN.

10. CEMENT LINING AND POLYETHYLENE TAPE WITH ROCK SHIELD COATING FOR WS PIPE, SEE 33 05 01.01. SEE SPECIFIC PIPE MATERIAL SPECIFICATIONS FOR ALL PIPE MATERIAL COATING AND LINING REQUIREMENTS. NO LINING OR COATING FOR OTHER PIPE MATERIALS.

11. INTERIOR LININGS AND EXTERIOR COATINGS
 BARE (LINING): NO LINING. BARE (COATING): NO COATING.
 PE: POLYETHYLENE TAPE
 FOR COATING SYSTEM INFORMATION REFER TO SPECIFICATION 09 90 00.

12. PIPE MATERIAL BID ALTERNATIVES. HDPE PIPE AND FIBERGLASS REINFORCED MORTAR PIPE TO BE RATED FOR MAXIMUM OPERATING PRESSURE.

PK3-G-103

NCPWF EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 3 - NCPWF IPS AND CONVEYANCE
**GENERAL
 PIPE SCHEDULE**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 31 OF 164 SHEETS		WBS <u>B-16140</u>
APPROVED: <i>Andrew Demich</i> FOR CITY ENGINEER PRINT DCE NAME DATE: 12/03/2020 RCE# C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER	PROJECT ENGINEER: THEIN-LONG TRAN
DESCRIPTION Addendum B	BY CH	APPROVED <i>Andrew Demich</i>
DATE 2/3/21	FILM	260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED

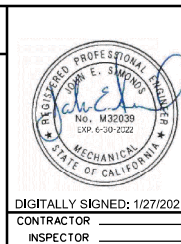
40381-3031-D

CONSULTANT

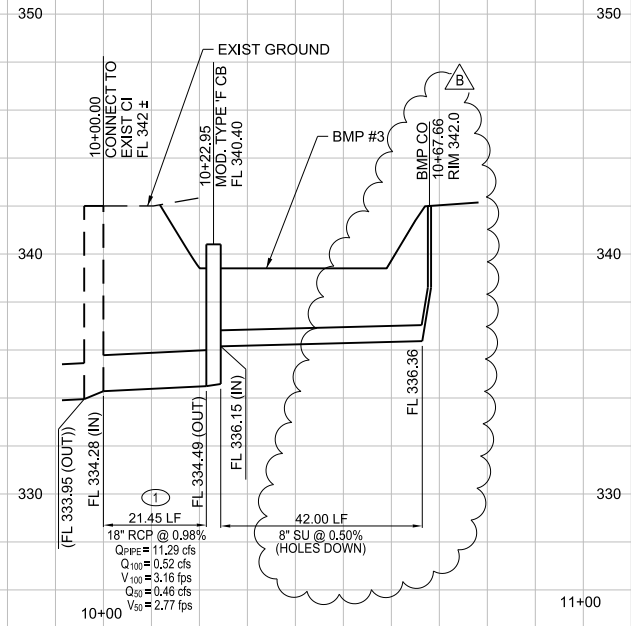
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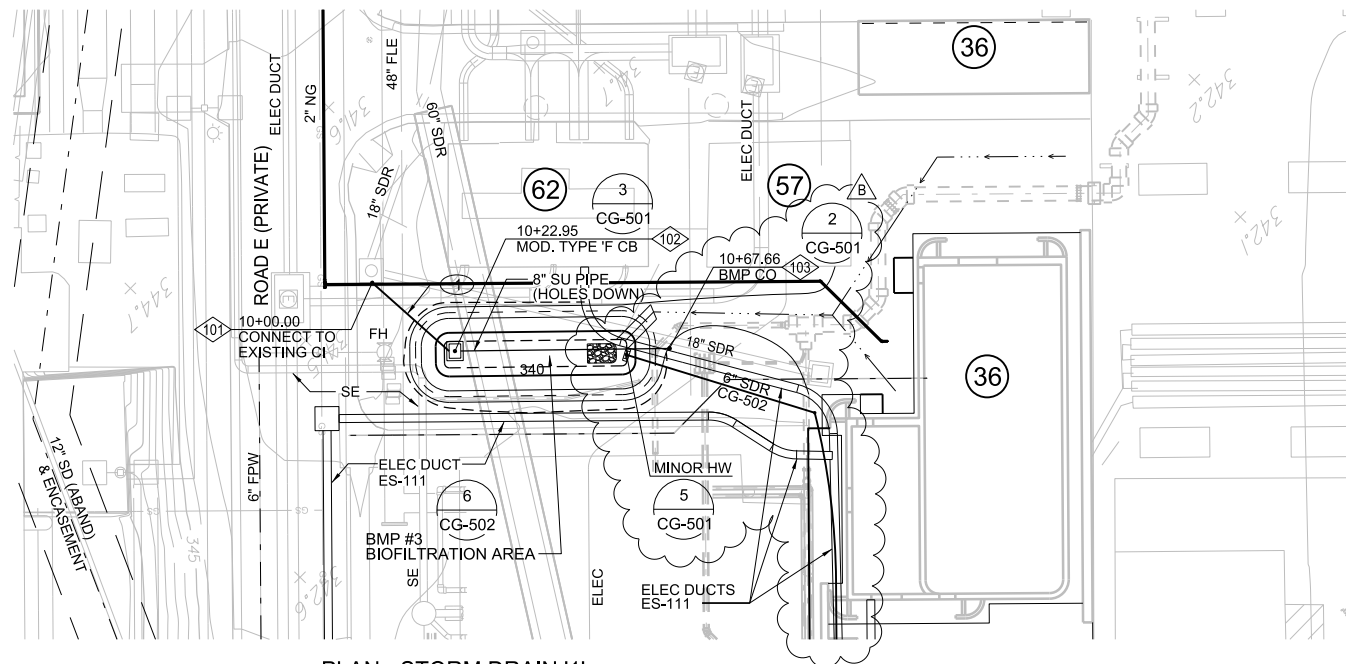


DIGITALLY SIGNED: 1/27/2021



SCALE
1"=20' HORIZ.
1"=4' VERT.

PROFILE - STORM DRAIN '1'
SCALE: HORIZ 1" = 20'
VERT 1" = 4'



PLAN - STORM DRAIN '1'
SCALE: 1" = 20'

NOTES:

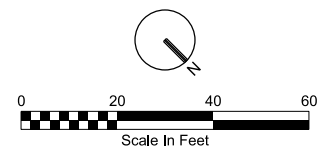
- SEE CV-101 THROUGH CV-104 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
- GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
- THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
- THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
- SEE SHEET CG-111 FOR GRADING PLANS.

STORM DRAIN PIPE DATA

NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 02°58'18" W		21.45'	18" RCP - D-1350

COORDINATE TABLE

NO	DESCRIPTION	NORTHING	EASTING
101	CONNECT TO EXISTING CI	1900651.92	6270381.29
102	MOD. TYPE 'F' CB	1900674.50	6270378.98
103	BMP CO	1900705.71	6270347.45



PK3-SW-101

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 3 - NCPWF IPS AND CONVEYANCE
**CIVIL
STORM DRAINAGE
PLAN AND PROFILE**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 45 OF 164 SHEETS		WBS B-16140
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrew Demich	DATE: 12/03/2020 RCE#: C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESIGNER: <i>[Signature]</i> THIEN-LONG TRAN PROJECT ENGINEER	DATE: 2/3/21	PROJECT NO: 260-1709
DESCRIPTION: Addendum B	BY: CH	COORDINATE: CCS27: 1900-6269 CCS83: 1900-6269
CONTRACTOR: _____		DATE STARTED: _____
INSPECTOR: _____		DATE COMPLETED: _____

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O'Day
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Civil Engineering
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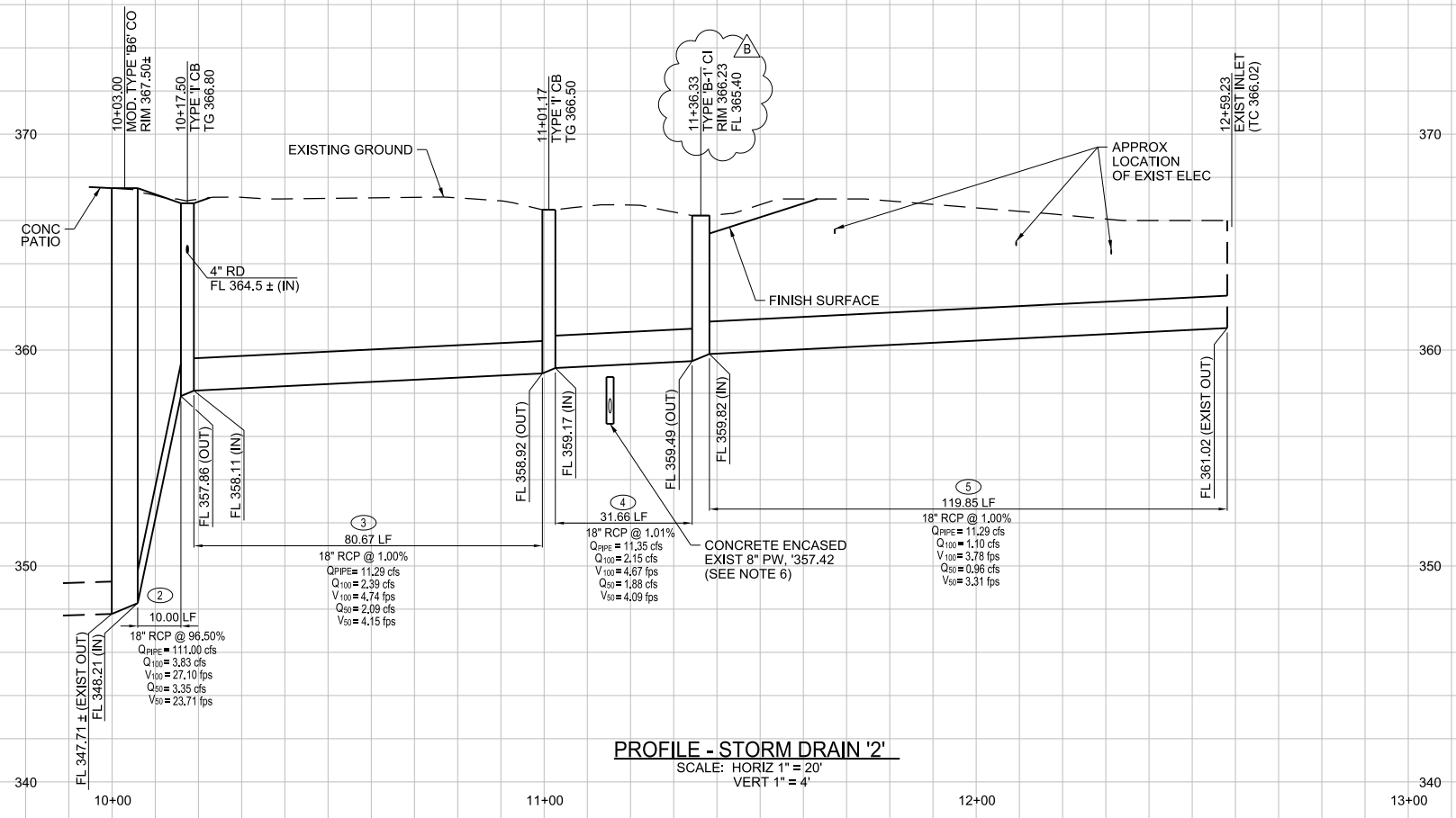
REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
NO. 60223
DATE: 6-29-2002
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

WARNING

0 1

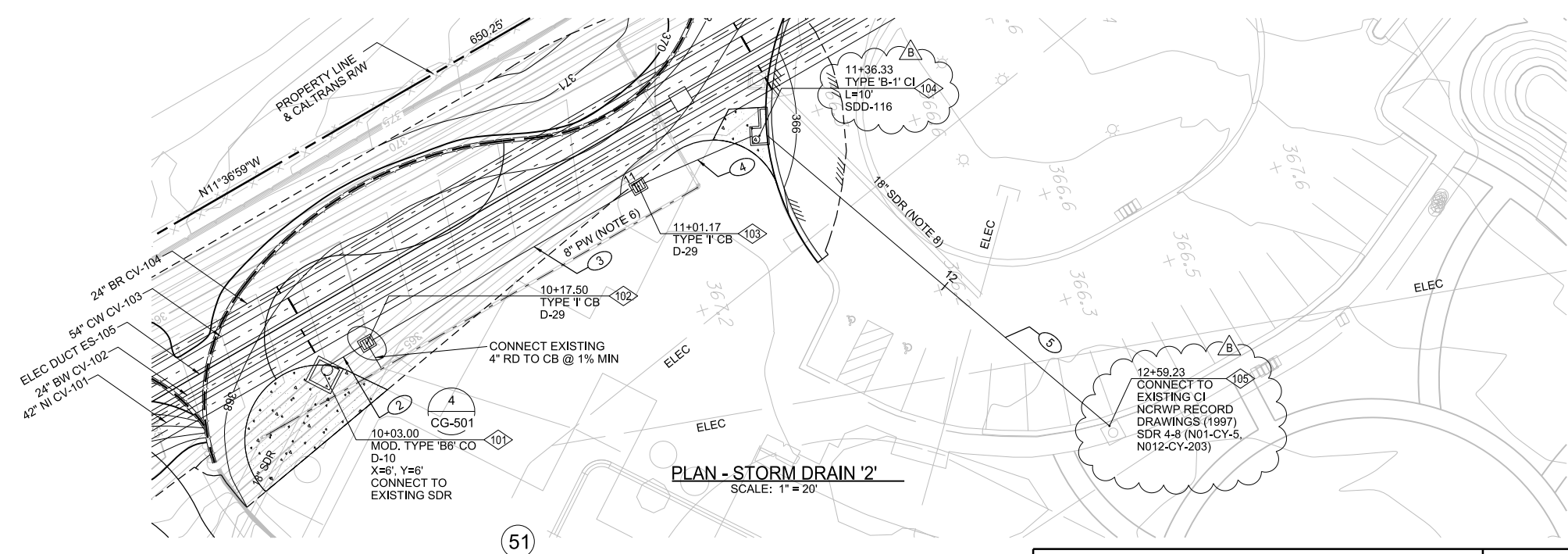
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PROFILE - STORM DRAIN '2'
SCALE: HORIZ 1" = 20'
VERT 1" = 4'

SCALE
1"=20' HORIZ.
1"=4' VERT.

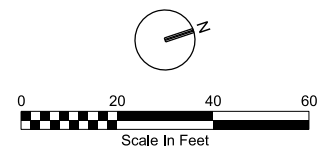
- NOTES:**
- SEE CV-101 THROUGH CV-104 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
 - GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
 - THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE SHEETS CG-105 & CG-110 FOR GRADING PLANS.
 - EXISTING 18" SDR TO BE ABANDONED PER CX-105 AND CX-110.



PLAN - STORM DRAIN '2'
SCALE: 1" = 20'

STORM DRAIN PIPE DATA				
NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
2	S11°36'08"E	—	10.00'	18" RCP - D-1350
3	S11°36'08"E	—	80.67'	18" RCP - D-1350
4	S05°10'04"E	—	31.66'	18" RCP - D-1350
5	N58°42'50"E	—	119.85'	18" RCP - D-1350

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	MOD. TYPE 'B6' CO	1901122.32	6270141.07
102	TYPE 'I' CB	1901135.73	6270136.66
103	TYPE 'I' CB	1901217.70	6270119.83
104	TYPE 'B' CI	1901252.63	6270117.20
105	CONNECT TO EXISTING CI	1901316.80	6270220.15



PK3-SW-102

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 3 - NCPWF IPS AND CONVEYANCE

CIVIL STORM DRAINAGE PLAN AND PROFILE

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 46 OF 164 SHEETS

WBS: B-16140

APPROVED: *[Signature]* DATE: 12/03/2020
FOR CITY ENGINEER: Andrew Demich
PRINT DCE NAME: Andrew Demich RCE# C70321

SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILM
Addendum B	CH	<i>[Signature]</i>	2/3/21	

260-1709
CCS27 COORDINATE
1900-6269
CCS83 COORDINATE

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

40381-3046-D

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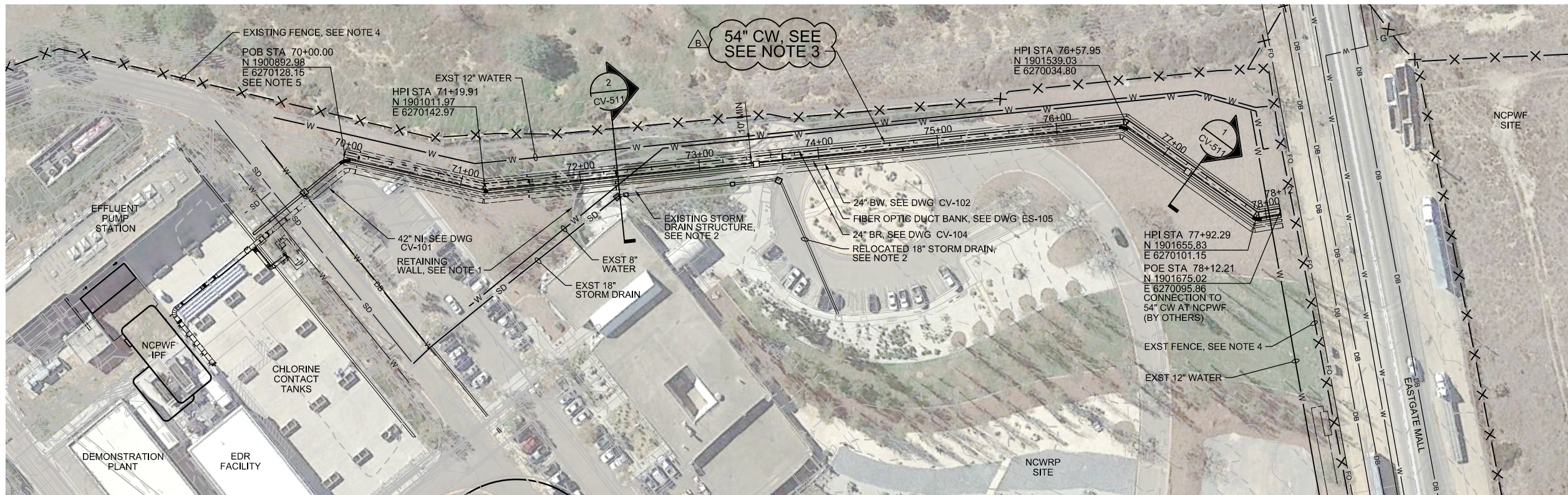
REGISTERED PROFESSIONAL ENGINEER
KETH W. HANSEN
NO. 60223
DATE OF EXPIRATION: 09/30/2023
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 01/27/2021

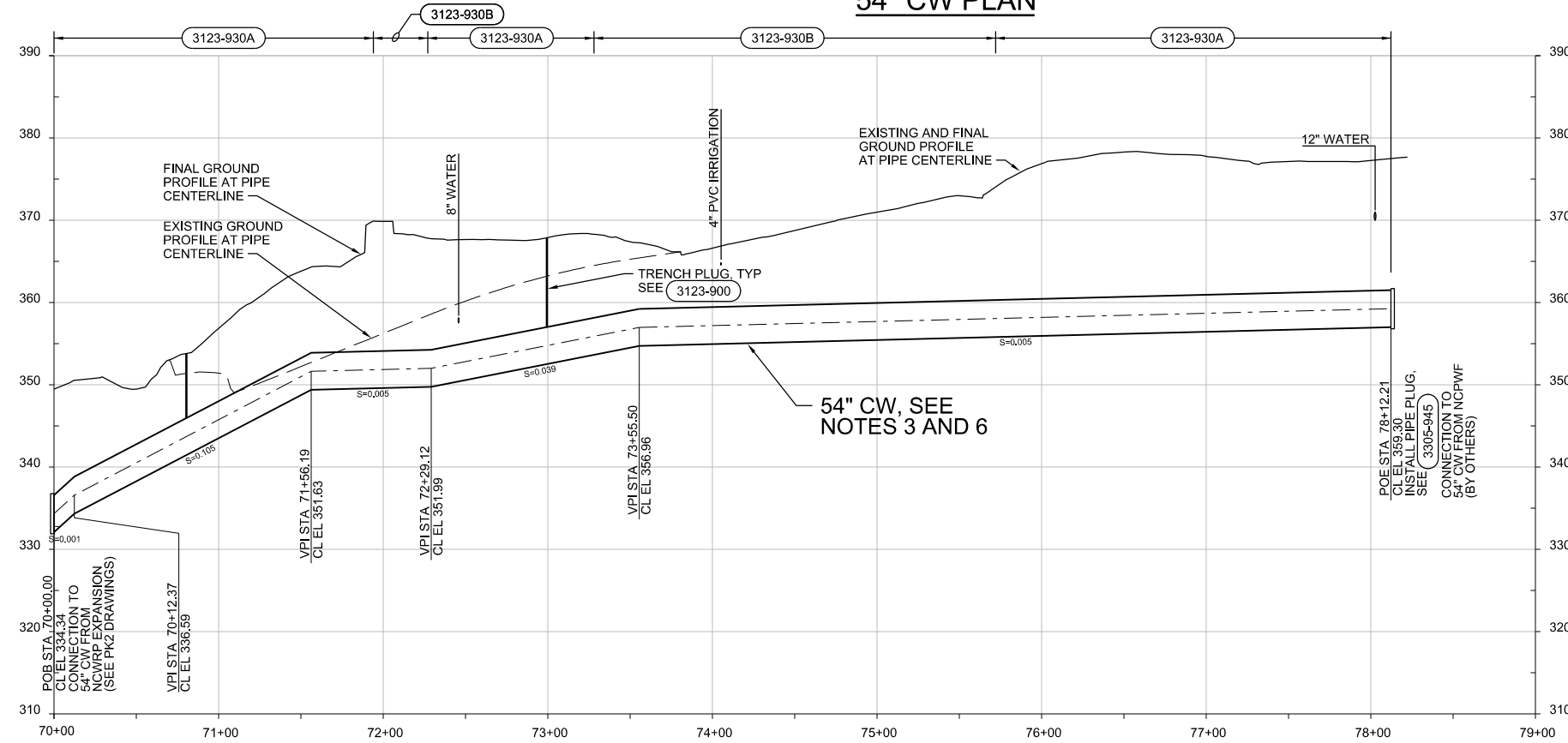
CONTRACTOR: _____
INSPECTOR: _____

WARNING

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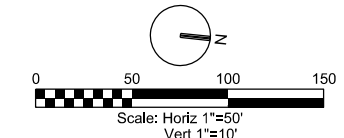
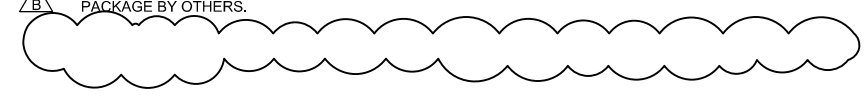
54" CW PLAN



54" CW PROFILE



NOTES:

1. INSTALL RETAINING WALL TO MATCH EXISTING WALL AND FINAL GRADE. SEE DWG CV-511 AND DWGS CG-110 AND CG-111.
2. RELOCATE EXISTING STORM DRAIN, SEE DWG SW-102.
3. INSTALL CONVEYANCE PIPELINES IN COMMON TRENCH, SEE  CV-511.
4. PROTECT EXISTING FENCE AND IF DAMAGE OCCURS, REPLACE IN KIND AT CONTRACTOR'S EXPENSE.
5. CONNECTION AND CONSTRUCTION OF PIPELINE BEYOND STA 70+00 IS PART OF THE NCWRP EXPANSION PACKAGE BY OTHERS.



PK3-CV-103

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 3 - NCPWF IPS AND CONVEYANCE
CONVEYANCE
54-INCH COMBINED WASTE PIPELINE
PLAN AND PROFILE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 49 OF 164 SHEETS		WBS <u>B-16140</u>
APPROVED:  FOR CITY ENGINEER PRINT DCE NAME: <u>Andrew Demich</u>	DATE: <u>12/03/2020</u> DATE: <u>07/03/21</u> RCE#	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER PROJECT ENGINEER: THIEN-LONG TRAN PROJECT ENGINEER 260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
DESCRIPTION Addendum B	BY CH	APPROVED 
		DATE <u>2/3/21</u>
		FILM
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED

CONSULTANT

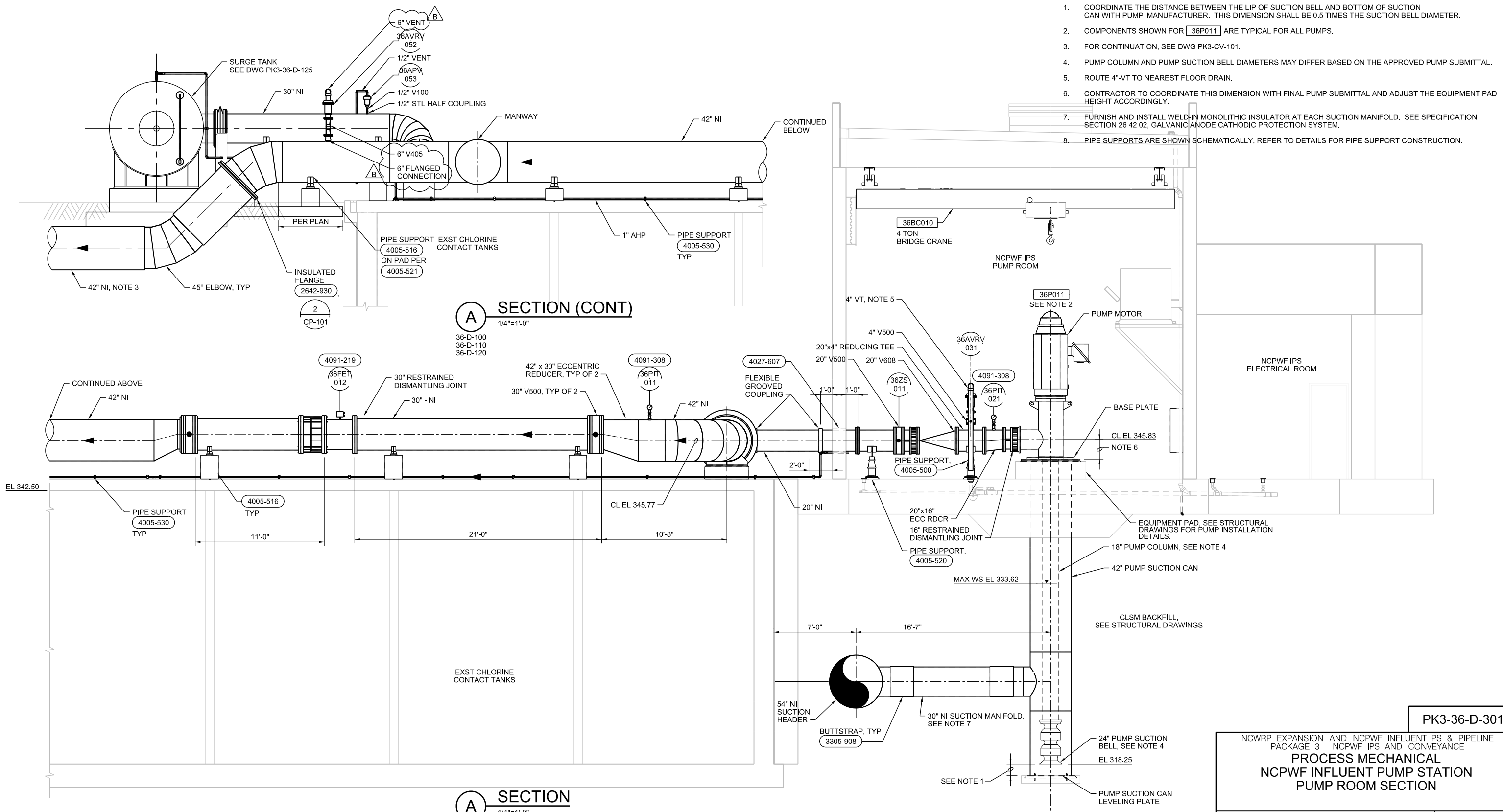


WARNING

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DIGITALLY SIGNED: 1/27/2021

REGISTERED PROFESSIONAL ENGINEER
 Andrew Demich
 CIVIL
 STATE OF CALIFORNIA
 EXP. DATE 3-31-21



- NOTES:
- COORDINATE THE DISTANCE BETWEEN THE LIP OF SUCTION BELL AND BOTTOM OF SUCTION CAN WITH PUMP MANUFACTURER. THIS DIMENSION SHALL BE 0.5 TIMES THE SUCTION BELL DIAMETER.
 - COMPONENTS SHOWN FOR [36P011] ARE TYPICAL FOR ALL PUMPS.
 - FOR CONTINUATION, SEE DWG PK3-CV-101.
 - PUMP COLUMN AND PUMP SUCTION BELL DIAMETERS MAY DIFFER BASED ON THE APPROVED PUMP SUBMITTAL.
 - ROUTE 4"-VT TO NEAREST FLOOR DRAIN.
 - CONTRACTOR TO COORDINATE THIS DIMENSION WITH FINAL PUMP SUBMITTAL AND ADJUST THE EQUIPMENT PAD HEIGHT ACCORDINGLY.
 - FURNISH AND INSTALL WELD-IN MONOLITHIC INSULATOR AT EACH SUCTION MANIFOLD. SEE SPECIFICATION SECTION 26 42 02, GALVANIC ANODE CATHODIC PROTECTION SYSTEM.
 - PIPE SUPPORTS ARE SHOWN SCHEMATICALLY, REFER TO DETAILS FOR PIPE SUPPORT CONSTRUCTION.

A SECTION (CONT)
1/4"=1'-0"

A SECTION
1/4"=1'-0"

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
MECHANICAL
12/27/2021

DIGITALLY SIGNED: 1/27/2021

APPROVED: *[Signature]*
FOR CITY ENGINEER: *[Signature]*
DATE: 12/03/2020
RCE#

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 97 OF 164 SHEETS				WBS: B-16140
NCRWP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 3 - NCPWF IPS AND CONVEYANCE PROCESS MECHANICAL NCPWF INFLUENT PUMP STATION PUMP ROOM SECTION				SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION Addendum B	BY CH	APPROVED <i>[Signature]</i>	DATE 2/3/21	PROJECT ENGINEER THIEN-LONG TRAN
				260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
CONTRACTOR			DATE STARTED	40381-3097-D
INSPECTOR			DATE COMPLETED	

@	AT (MEASUREMENT)
Δ	DEFLECTION ANGLE, CENTRAL ANGLE
#	NUMBER (REBAR Ø)
A	ANCHOR BOLT
ABAND	ABANDON
ABC	AGGREGATE BASE COURSE
ABS	ACRYLONITRILE BUTADIENE STYRENE
AC	ASPHALTIC CONCRETE
ACB	AIR CIRCUIT BREAKER
ACI	AMERICAN CONCRETE INSTITUTE
ACP	ASBESTOS CEMENT PIPE
ACU	AIR CONDITIONING UNIT
AD	AREA DRAIN
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJUST, ADJUSTABLE
ADMIN	ADMINISTRATION
ADR	ACCESS DOOR
AED	AREA EQUIPMENT DRAIN
AER	AERAT(ION)OR
AFC	AFTERCOOLER
AFF	ABOVE FINISHED FLOOR
AFM	AIR FLOW MONITOR
AHU	AIR HANDLING UNIT
AIC	AIR COMPRESSOR
AIL	AIR INTAKE LOUVER
ALT	ALTERNATE
AL	ALUMINUM
ANCH	ANCHOR
ANV	ANGLE VALVE
AOP	ADVANCED OXIDATION PROCESS
APPROX	APPROXIMATE, APPROXIMATELY
ARCH	ARCHITECTURAL
ARV	AIR RELEASE VALVE
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AV	ACID VENT
AVG	AVERAGE
AVV	AIR AND VACUUM VALVE
AW	ACID WASTE
B	BIOLOGICAL ACTIVATED CARBON
BAC	BIOLOGICAL AERATED FILLER
BAF	BEGIN CURVE, BRASS CAP, BACK OF CURB, BOLT
BC	CIRCLE
BCKR	BACKER BOARD
BCM	BATCHMETER
BD	BOARD
DD	BACKDRAFT DAMPER
BDR	BASIN DRAIN LINE
BF	BLIND FLANGE
BFG	BELOW FINISHED GRADE
BFP	BELT FILTER PRESS
BFV	BUTTERFLY VALVE
BG	BREAK GLASS HAND SWITCH
BKW	BACKWASH
BLDG	BUILDING
BLK	BLOCK
BLKHD	BLKHEAD
BLR	PROCESS BLOWER
BM	BEAM, BENCH MARK
B.O.	BOTTOM OF
BOTT	BOTTOM
BOTTS	BOTTOM SLUDGE
BPV	BACK PRESSURE VALVE
BRG	BEARING
BSP	BLACK STEEL PIPE
BTU	BTUISH THERMAL UNITS
BTWN	BETWEEN
BWE	BACKWASH EFFLUENT
BWF	BACKWASH FEED
BV	BALL VALVE
C	CLOSE, CONDUIT CHANNEL (STRUCTURAL)
CA	CONCRETE ANCHOR
CAUSTIC	CAUSTIC SOLUTION (CONCENTRATED OR DILUTE)
CB	CATCH BASIN
CC	CENTER OF CURVATURE, CENTER TO CENTER
CCB	CHLORINE CONTACT BASIN
CCT	CHLORINE CONTACT TANK
CD	CEILING DIFFUSER, CONDENSATE DRAIN
CDL	CHEMICAL DRAIN LINE
CDT	CONDUIT
CEF	CEILING EXHAUST FAN
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CFEMD	CHEMICAL DRAIN
CHF	CHEMICAL FEEDER
CHKD PL	CHECKERED PLATE
CI	CAST IRON
CIP	CAST IRON PIPE, CLEAN IN PLACE
CIPF	CLEAN IN PLACE FEED
CIPR	CLEAN IN PLACE RETURN
CIRC	CIRCUMFERENTIAL/CIRCUMFERENCE
CJ	CONSTRUCTION JOINT
OKA	CHECK VALVE, ANGLE
OKB	CHECK VALVE, BALL
OKF	CHECK VALVE, FLAP
OKS	CHECK VALVE, SWING
CL	CENTER LINE
CLK	CHAIN LINK
CLD	CHLORINE LEAK DETECTOR
CLL	CHLORINE LIQUID
CLP	CHLORINE GAS (PRESSURE)
CLR	CLEAR
CLS	CHLORINE SOLUTION
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CLV	CHLORINE GAS (VACUUM)
CML	CEMENT MORTAR LINED
CMLC	CEMENT MORTAR LINED AND COATED
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CNV	CONVEYOR
CO	CLEANOUT
COL(S)	COLUMN(S)
CONC	CONCRETE
CONN	CONNECT, CONNECTION

CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUATION OR (D) (DU) (DU)
CORR	CORROSION
CP	CORROSION
CPLG	COUPLING
CPT	CARPET
CPVC	CHLORINATED POLYVINYL CHLORIDE
CS	CARBON STEEL, CIRCULATING SLUDGE
CSP	CHEMICAL SUMP PUMP, CORRUGATED STEEL PIPE
CT	CURRENT TRANSFORMER, CERAMIC TILE
CTJ	CONTROL JOINT
CTL	CONTROL
CTR	CENTER, CENTERED
CTSK	COUNTERSUNK
CU	CUBIC
CUP	COPPER PIPE
CV	CHECK VALVE
CW	COLD WATER
CWL	CHILLER WATER LINE
CWV	COMBINATION WASTE AND VENT
CY	CUBIC YARD
D	DEPTH, DIGITAL OR DISCRETE, DRAIN
D/W	DRIVEWAY
DBL	DOUBLE
DDR	DESICCANT DRYER
DEG	DEGREE
DEG or °	DIMENSION
DEMOL	DEMOLISH, DEMOLITION
DET	DETAIL
DFL	DECANT/FILTRATE
DG	DOOR GRILLE
DIA or Ø	DIAMETER
DIAG	DIAGONAL
DIF	DIFFUSER
DIG	DIGESTER
DI	DIMENSION
DIP	DUCTILE IRON PIPE
DISCH	DISCHARGE
DIW	DIONIZED WATER
DL	DEAD LOAD, DRAIN LINE
DLV	DOOR LOUVER
DMP	DAMPER
DMS	DIAPHRAGM SEAL
DN	DOWN
DO	DOOR OPENING
DP	DEEP (OR DEPTH)
DPV	DIAPHRAGM VALVE
DPWF	DEMONSTRATION PURE WATER FACILITY
DR	DOOR, DRAIN
DRT	DRIP TRAP
DRV	DRAIN VALVE
DSW	DIGESTED SLUDGE, DOWN SPOUT
DSW	DISTILLED WATER, DOOR SWITCH
DUC	DUST COLLECTOR
DUH	DUCT HEATER UNIT
DW	DISTILLED WATER
DWD	DEWATERING DRAIN
DWG(S)	DRAWING(S)
DWL(S)	DOWEL(S)
E	EAST
EA	EACH
EC	END OF CURVE
ECC RED	ECCENTRIC REDUCER
ECIP	ELECTRODE CLEAN IN PLACE
EUJ	EVAPORATOR COOLING UNIT
ED	EQUIPMENT DRAIN
EDR	ELECTRO-DIALYSIS REVERSAL
EDRF	EDR FILL
EDRP	EDR PRODUCT
EF	EXHAUST FAN, EACH FACE
EFF	EFFLUENT
EG	EXHAUST GRILLE, EXISTING GRADE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EJR	INJECTOR/REDUCTOR
EL	ELEVATION
ELEC	ELECTRICAL
ELL	ELBOW
EMBED	EMBEDMENT
EMH	ELECTRICAL MANHOLE
EP	EDGE OF PAVEMENT
EPS	EXPANDED POLYSTYRENE
EPV	ECCENTRIC PLUG VALVE
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EXHAUST REGISTER
ES	EACH SIDE
ESEW	EMERGENCY SHOWER AND EYE WASH
ESS	EMERGENCY HAND SWITCH
ET	ELECTRICALLY HEAT TRACED
EUH	ELECTRIC UNIT HEATER
EVR	EVAPORATOR
EW	EACH WAY
EWV	ELECTRIC WATER COOLER
EWEF	EACH WAY EACH FACE
EWV	ELECTRIC WATER HEATER, EXHAUST
EX, EXST	EXISTING
EXIST	EXISTING
EXP	EXPANSION, EXPANSION TANK
EXPO	EXTERIOR
EXT	EXTERIOR
F	FACTORY
FAD	FOUL AIR DUCT
FAS	FILTER AIR SCOUR
FB	FLAT BAR
FBW	FILTER BACKWASH
FC	FACE OF CURB, FLEXIBLE COUPLING
FCA	FLANGE COUPLING ADAPTER
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FIRE DAMPER, FLOOR DRAIN, FOUND
FDC	FIRE DEPARTMENT CONNECTION
FDI	FLOOR DRAIN LINE
FDR	FEEDER
FE	FILTER EFFLUENT
FEFF	FINAL EFFLUENT

FG	FLAP GATE, FINISH GRADE
FH	FIRE HYDRANT
FILT	FILTER
FIN	FINISH
FIN FL	FINISHED FLOOR
FL	FLOOR, FLOW LINE
FLA	FOUL AIR
FLD	FILTER DRAIN
FLE	FILTER EFFLUENT
FLEX	FLEXIBLE
FLC	FLANGE, OR FLANGED
FLR	FILTER
FM	FORCE MAIN
FND	FOUNDATION
FO	FUEL OIL
FOB	FLAT ON BOTTOM
FOT	FEET ON TOP
FPP	FEET PER MINUTE
FPL	FLEXIBLE PLASTIC PIPE
FRP	FIBERGLASS REINFORCED PLASTIC
FRPP	FIBERGLASS REINFORCED PLASTIC PIPE
FRS	FROTH SPRAY
FS	FAR SIDE
FSTN	FASTEN(ED)
FT or ' "	FOOT, FEET
FTG	FOOTING
FUP	FUEL DISPENSER
FV	FLAP VALVE
FW	FLUSHING WATER
FX	FIRE EXTINGUISHER
FXC	FIRE EXTINGUISHER CABINET
FXE	FIRE EXTINGUISHER - ELECTRICAL
G	GAS, GROUND, GUTTER
GA	GAUGE OR GAGE
GAL	GALLONS
GALV	GALVANIZE(D)
GAV	GRAVITY VENTILATOR
GB	GRADE BREAK
GBT	GRAVITY BELT THICKENER
GC	GRAVITY COUPLING
GEL	GRAVITY EXHAUST LOUVER
GEN	GENERAL, GENERATOR
GL	GLASS
GLV	GLOBE VALVE
GM	GAS METER
GND	GROUND
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GR	GRATING
GRG	GRAVITY VENTILATOR
GRV	GALVANIZED STEEL PIPE
GSP	GATE VALVE
GV	GYP
GYP	GYP
H	EXPLOSION-PROOF, HIGH, HORIZONTAL
H1E	HOOK ONE END
H2E	HOOK TWO ENDS
HAS	HEADED ANCHOR STUD
HB	HOSE BIBB
HDG	HIGH DENSITY POLYETHYLENE
HDPE	HIGH DENSITY POLYETHYLENE
HDW	HARDWARE
HDWL	HEADWALL
HEF	HOOD EXHAUST FAN
HGT	HEIGHT
HORIZ	HORIZONTAL
HP	HEAT PUMP, HORSEPOWER, HIGH PRESSURE
HPA	HIGH PRESSURE AIR
HPT	HIGH POINT
HPU	HEAT PUMP UNIT AIR
HR	HANDRAIL, HOSE REEL, HOUR
HSF	HOOD SUPPLY FAN
HSS	HOLLOW STRUCTURAL SECTION (STEEL)
HTX	HEAT EXCHANGER
HW	HOSE VALVE
HW	HOT WATER
HWL	HIGH WATER LEVEL
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HxW	HEIGHT BY WIDTH
HYD	HYDRANT
I	INSTRUMENT AIR
ID	INSIDE DIAMETER, INSIDE DIMENSION, IDENTIFICATION
I.F.	INSIDE FACE
IN or "	INCHES
INCL	INCLUDE, INCLUDING
INF	INFILTRANT
INJ	INJECTOR
INSTR	INSTRUMENTATION
INSUL	INSULATION(ED)(ING)(ION)
INT	INTERIOR
INV	INVERT
IP	IRON PIPE
ISR	INTRINSICALLY SAFE RELAY
J	JOIST
JT	JOINT
K	KNIFE GATE VALVE
L	ANGLE (STRUCTURAL), LENGTH, LOUVER
LAB	LABORATORY
LAV	LAVATORY
LB(S)	POUND(S)
LDF	LIQUID DIESEL FUEL
LDFR	LIQUID DIESEL FUEL RETURN
LF	LINEAL FEET
LG	LONG
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LHRA	LEFT HAND REVERSE ACTIVE
LHRB	LEFT HAND REVERSE BEVEL

LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW PRESSURE
LPA	LIQUID PROPANE AIR
LPG	LIQUIFIED PROPANE GAS
LPT	LOW POINT
LR	LONG RADIUS
LS	LAB SINK
LT	LEFT
LWL	LOW WATER LEVEL
M	MOTOR
MAINT	MAINTENANCE
MAN	MANUAL
MASV	MASONRY
MATL	MATERIAL
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MECHANICAL COUPLING
MCC	MOTOR CONTROL CENTER
MCJ	MASONRY CONTROL JOINT
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MET	METAL
MF	MICROFILTRATION
MFR	MANUFACTURER
MGL	MILLIGRAMS PER LITER
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MIX	MIXER
MJ	MECHANICAL JOINT
MK	MARK
ML	MIXED LIQUOR
MO	MASONRY OPENING
MOD	MODIFIED
MOIST	MOISTURE
MON	MONUMENT
MOS	MOISTURE SEPARATOR
MPM	METERING PUMP
MOP	MOUNTED
MTD	MOUNTED
N	NORTH, NEUTRAL
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NCPWF	NORTH CITY PURE WATER FACILITY
NEV	VALVE, NEEDLE
NG	NATURAL GRADE, NATURAL OR LP GAS
NIC	NOT IN CONTRACT
NO, #	NUMBER
NOM	NOMINAL
NPT	NATIONAL PIPE THREAD
NPW	NON-POTABLE WATER
NS	NEAR SINK
NTS	NOT TO SCALE
O	OPEN
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OCA	OZONE GENERATOR COMPRESSED AIR
OCE	OZONE CONTRACTOR EFFLUENT
OD	OUTSIDE DIAMETER, OUTSIDE DIMENSION
OED	OPEN EQUIPMENT DRAIN
O.F.	OUTSIDE FACE
OPF	OVERFLOW
OO	OZONE OFF GAS LINE
OPNG	OPENING
OPP	OPPOSITE
OPP HND	OPPOSITE HAND
OZ	OUNCE
OZE	OZONE GENERATOR EFFLUENT
OZI	OZONE GENERATOR INFLUENT
P	POLE
PBL	POLYMER BLENDER
PC	POINT OF CURVATURE
PCC	PLANT CONTROL CENTER
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PCP	PROGRESSIVE CAVITY PUMP
PD	POSITIVE DISPLACEMENT, PLANT DRAIN
PDP	PULSATON DAMPENER
PDP	POSITIVE DISPLACEMENT PUMP
PE	PLAIN END
PERP	PERPENDICULAR
PG	PRESSURE GAUGE
PH	PHASE, PHYSICALLY HANDICAPPED
PI	POINT OF INTERSECTION
PIP	PROTECT IN PLACE
PIV	POST INDICATOR VALVE
PL	PLATE, PROPERTY LINE
PLAS	PLASTIC
PLC	PROGRAMMABLE LOGIC CONTROLLER
PLCS	PLACES
PLS	POLYMER SOLUTION
PLWD	PLYWOOD
PMP	PUMP
PMP(S)	PANEL(S)
PCC	POINT OF CONNECTION
POL	POLYMER
POLY	POLYETHYLENE
POS	POSITION
POW	POTABLE WATER
PP	POWER POLE
PPMV	PARTS PER MILLION (VOLUME)
PRC	POINT OF REVERSE CURVATURE
PREFAB	PREFABRICATED
PRG	PRESSURE REGULATOR
PRI	PRIMARY

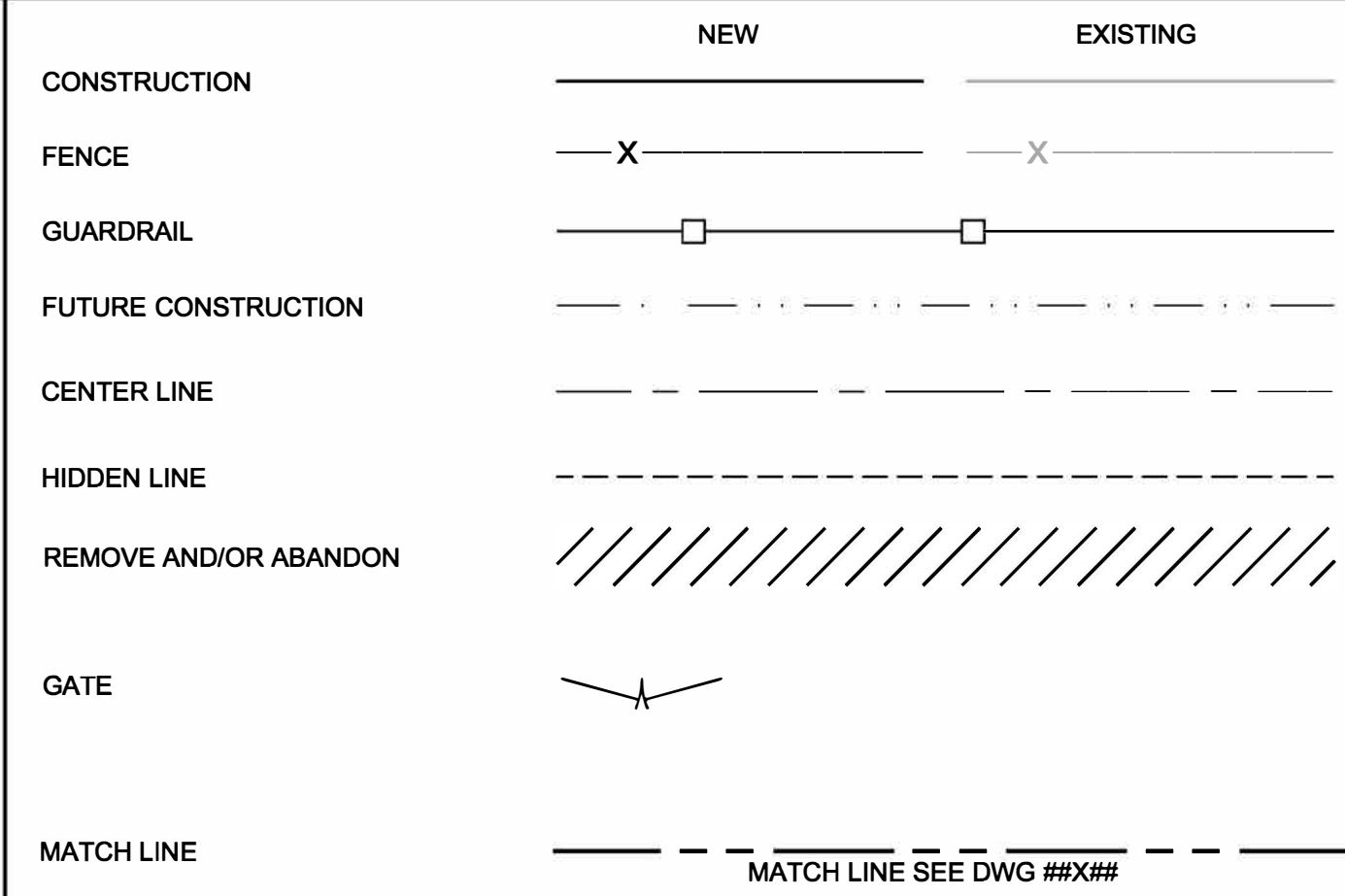
PROJ	PROJECTION
PRR	PRESSURE OR VACUUM RELIEF VALVE
PRV	PRESSURE REDUCING VALVE, PRESSURE REGULATION VALVE, PRESSURE RELIEF VALVE
PS	PUMP STATION, PIPE SUPPORT
PSA	PRESSURE SWING ADSORPTION
PSF	POUNDS PER SQUARE FOOT
PSG	PRESSURE GAUGE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	POINT, POINT OF TANGENCY
PV	PLUG VALVE
PVC	POINT OF VERTICAL CURVATURE, POLYVINYL CHLORIDE
PVDF	POLYVINYLIDENEFLUORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENCY
PW	PLANT WATER
QTY	QUANTITY
R/W	RADIUS, RADIUS
RAD	RADIUS, RAY
RAS	RETURN ACTIVATED SLUDGE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RDL	ROOF DRAIN LINE
RDOF	ROOF DRAIN OVERFLOW
RECIRC	RECIRCULATING
RED	REDUCER, ROOF EQUIPMENT DRAIN
REF	REFERENCE
REG	REGULATOR, REGULATING
REINF	REINFORCE(D)(ING)(MENT)
RER	RUBBER EXPANSION JOINT
REQD	REQUIRED
RER	REACTOR
RES	RESERVOIR
REV	REVISION, REVERSE
RF	RETURN FAN
RG	RETURN GRILLE RUBBER GASKET
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RHRA	RIGHT HAND REVERSE ACTIVE
RHRB	RIGHT HAND REVERSE BEVEL
RLS	REGISTERED LAND SURVEYOR
RM	ROOM
RO	ROUGH OPENING
ROT	ROTAMETER
RP	RADIUS POINT
RPM	REVOLUTIONS PER MINUTE
RPMP	REINFORCED PLASTIC MORTAR PIPE
RR	RETURN REGISTER
RSR	RISER
RT	RIGHT
RTF	ROTARY FEEDER
RTU	ROOF TOP UNIT
RUD	RUPTURE DISK
RW	RECLAIMED WATER, REUSE WATER
RWHP	RECLAIMED WATER HIGH PRESSURE
RWR	RECLAIMED WATER RETURN
RWW	RAW WASTEWATER
S/W	SIDEWALK
S	SOUTH, SWITCH, SLOPE
SA	SAMPLE
SC	SECONDARY CLARIFIER
SCB	SCRUBBER
SCD	SMOKE CONTROL DAMPER
SCFM	STANDARD CUBIC FEET PER MINUTE
SCH	SCHEDULE
SCO	SURFACE CLEANOUT
SCR	BAR SCREEN
SCR	SILICON CONTROL RECTIFIER
SD	SMOKE DETECTOR, SPLITTER DAMPER, SANITARY DRAIN / VENT
SDL	SUMP DISCHARGE DRAIN LINE
SDO	SLUDGE DRAFF
SDR	SLUDGE DRAWOFF, STORM DRAIN
SDRSD	SAN DIEGO REGIONAL STANDARD DRAWINGS
SDRSMH	STORM DRAIN MANHOLE
SE	SECONDARY EFFLUENT
SEC	SECONDARY, SECOND
SECT	SECTION
SED	SEDIMENTATION
SEP	SEPTAGE
SF	SUPPLY FAN
SFW	SOFTENED WATER
SG	SUPPLY GRILLE
SGS	STORE FRONT GLAZING SYSTEM
SHC	SODIUM HYPOCHLORITE
SHD	SHOWER DRAIN
SHDR	SOLIDS HANDLING-RECYCLE
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SKIMMINGS
SL	S=, SLOPE, SLUDGE
SLC	SLUDGE COLLECTOR DRIVE
SLG	SLIDE GATE
SLV	SLEEVE VALVE
SMP	SAMPLER, SUMP PUMP
SN	SUPERNATANT OR SUBNATANT
SOL	SOLUTION
SP	STATIC PRESSURE, SET POINT
SPD	SUMP PUMP DRAIN
SPDT	SINGLE POLE DOUBLE THROW
SPEC(S)	SPECIFICATION(S)
SPL	SPLITTER BOX
SPR	SPARE
SPS	SAMPLE SINK
SPW	SAMPLE WATER
SQ	SQUARE

SQ FT	SQUARE FEET
SQ IN(S)	SQUARE INCH(ES)
SR	SHORT RADIUS, SUPPLY REGISTER
SRL	SCRUBBER RECIRCULATION LIQUID (CAUSTIC)
SS	SANITARY SEWER, SELECTOR SWITCH
SSK	SERVICE SINK
SSL	SECONDARY SLUDGE
SST	STAINLESS STEEL
ST	SLUDGE TRANSFER
STA	STATION

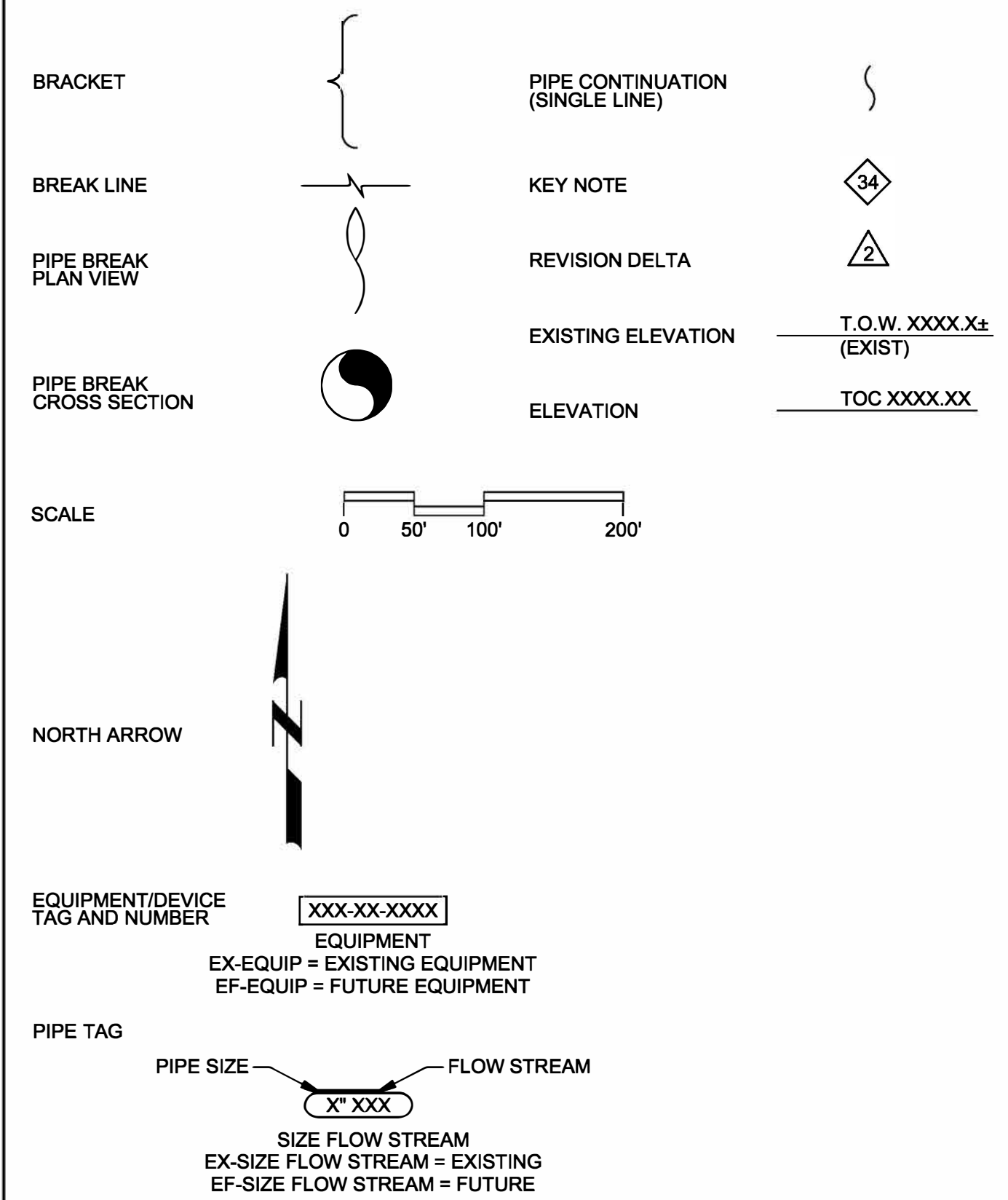
GENERAL NOTES

- FOLLOWING NOTES ARE GENERAL AND APPLY TO ALL SHEETS OF THESE CONTRACT DOCUMENTS AS IF THEY WERE WRITTEN IN THEIR ENTIRETY ON EACH SHEET.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE RESIDENT ENGINEER OF ANY DISCREPANCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS INCLUDING LOCATION AND DIMENSIONS OF ALL EXISTING CONSTRUCTION AND UTILITIES. CONTRACTOR SHALL NOTIFY RESIDENT ENGINEER IF THERE IS A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONSTRUCTION BEFORE PROCEEDING WITH WORK.
- UNLESS DETAILED, SPECIFIED, OR OTHERWISE INDICATED ON THE DRAWINGS, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND GENERAL NOTES. THE LATEST VERSIONS OF THE SAN DIEGO REGIONAL STANDARD DRAWINGS (SDRSD) AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) SHALL APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS ON DRAWINGS.
- WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF WORK, DETAILS SHALL BE IN THE SAME AS FOR OTHER SIMILAR WORK.
- CONTRACTOR SHALL COMPLY WITH LOCAL CONSTRUCTION STORM WATER DISCHARGE REGULATIONS AND REQUIREMENTS.
- PRIOR TO EXCAVATION FOR NEW STRUCTURES, ELECTRICAL CONDUIT, FABRICATION OF NEW PIPING AND/OR OTHER PROPOSED UTILITIES, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING PIPING AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL TEMPORARILY RELOCATE CONFLICTING EXISTING UTILITIES AT TIE-IN/CONNECTION LOCATIONS AND REINSTALL THEM AS REQUIRED TO ELIMINATE THE CONFLICT AT NO ADDITIONAL COST TO THE OWNER.
- ALL PIPELINES 12" AND LARGER SHALL HAVE A MINIMUM COVER OF 36" UNLESS THE COVER DEPTH IS SPECIFICALLY INDICATED ON THE DRAWINGS. PIPE SMALLER THAN 12" SHALL HAVE A MINIMUM COVER OF 36" UNLESS NOTED OTHERWISE. PIPES SHALL BE ROUTED AS SHOWN UNLESS MINOR REVISIONS ARE NECESSARY TO MISS EXISTING PIPES, STRUCTURES, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL FITTINGS AND ADAPTERS REQUIRED TO MAKE THE ROUTING CHANGES AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL INCLUDE COST FOR THIS IN THE BID.
- EXISTING FACILITY AND UTILITY INFORMATION SHOWN ON THE DRAWINGS WAS OBTAINED FROM AVAILABLE RECORDS OR ELECTRONIC FILES. NEITHER THE OWNER NOR RESIDENT ENGINEER ASSUMES ANY RESPONSIBILITY FOR FACILITIES AND UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, SIZES, MATERIAL TYPES, AND ELEVATIONS SHOWN AROUND OR NEAR AREAS OF NEW CONSTRUCTION PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT FROM DAMAGE EXISTING FACILITIES AND UTILITIES SHOWN OR NOT SHOWN THAT ARE TO REMAIN IN PLACE. ALL FACILITIES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED TO THE ORIGINAL OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
- CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING PIPE, EQUIPMENT, ETC. AS REQUIRED AND SHALL PROVIDE ALL FITTINGS, ADAPTERS, AND APPURTENANCES REQUIRED TO MAKE THE CONNECTIONS. PROVIDE ALL SUPPORTS REQUIRED FOR A RIGIDLY SUPPORTED COMPLETE AND WORKING SYSTEM.
- ADJUST ALL VALVE BOXES, VAULTS, PULL BOXES, AND MANHOLES TO FINISHED GRADE UNLESS OTHERWISE SHOWN OR DIRECTED. MANHOLES IN OPEN FIELDS SHALL BE SET TWELVE INCHES ABOVE FINISHED GRADE AND VAULTS SHALL BE SIX INCHES ABOVE FINISHED GRADE.
- THE CONTRACTOR SHALL CONTACT CITY STAFF AT NCWRP FOR SHUTDOWNS, TIE-INS, LARGE EQUIPMENT DELIVERIES, WORK PLANS AND OTHER QUESTIONS OR COORDINATION OF CONSTRUCTION RELATED TO EXISTING UTILITIES.
- CONTRACTOR SHALL VERIFY THAT PIPING SHOWN TO BE ABANDONED OR AS ABANDONED PREVIOUSLY IS NO LONGER IN SERVICE. LINES IN SERVICE SHALL BE MAINTAINED UNTIL NO LONGER REQUIRED BY THE PLANT.
- ALL EXISTING PIPES THAT ARE TO BE ABANDONED IN PLACE OR REMOVED MAY NOT BE SHOWN. WHERE PIPING IS TO BE ABANDONED AND MUST REMAIN IN SERVICE UNTIL COMPLETION OF OTHER PHASES OF WORK, AND IT CONFLICTS WITH NEW PIPING, TEMPORARILY RELOCATE PIPING AS REQUIRED TO MAINTAIN SERVICE BY THE PLANT.
- CONTRACTOR SHALL REROUTE THE EXISTING PIPING IF REQUIRED TO MISS THE PROPOSED STRUCTURES. THE EXISTING PIPE SHALL REMAIN IN SERVICE UNTIL NEW PIPING IS READY TO BE PLACED INTO SERVICE. DOWNTIME SHALL BE A MAXIMUM OF 2 HOURS, UNLESS SPECIFIED OR SHOWN OTHERWISE.
- ALL SIDEWALKS TO BE 4'-0" WIDE (MIN) UNLESS SHOWN OTHERWISE.
- THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS IN THE VICINITY OF ANY OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL ABIDE BY THE NATIONAL ELECTRIC CODE AND ANY REQUIREMENT BY THE OWNER OF THE ELECTRIC LINES.
- PROVIDE ALL SHEETING/SHORING REQUIRED TO PROTECT EXISTING STRUCTURES, PIPES AND FACILITIES.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL ARCHITECTURAL, MECHANICAL, AND ELECTRICAL ITEMS BEFORE PLACING ANY STRUCTURAL STEEL OR CONCRETE. ALSO, STRUCTURAL DIMENSIONS AND OPENINGS CONTROLLED BY ARCHITECTURAL, MECHANICAL, OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES, AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS, THAT ARE REQUIRED BY OTHER CONTRACT DRAWINGS, SHALL BE PROVIDED PRIOR TO CASTING CONCRETE.

LINE WORK



SYMBOLS

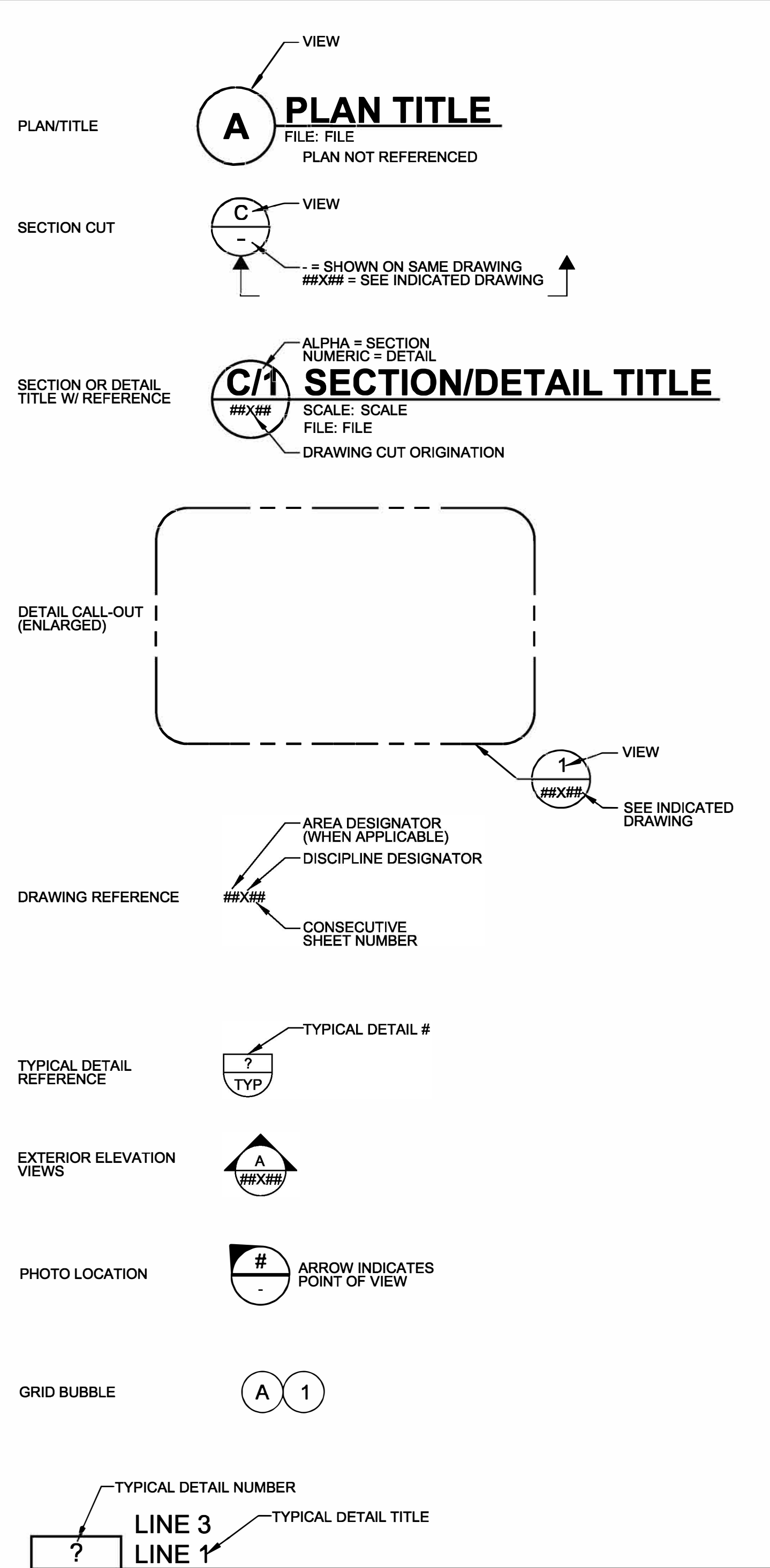


Call before you Dig
Avoid cutting underground utility lines. It's costly.

Call before you OVERHEAD
Replace with Regional Phone Number

1-800-227-2600

DETAIL REFERENCES

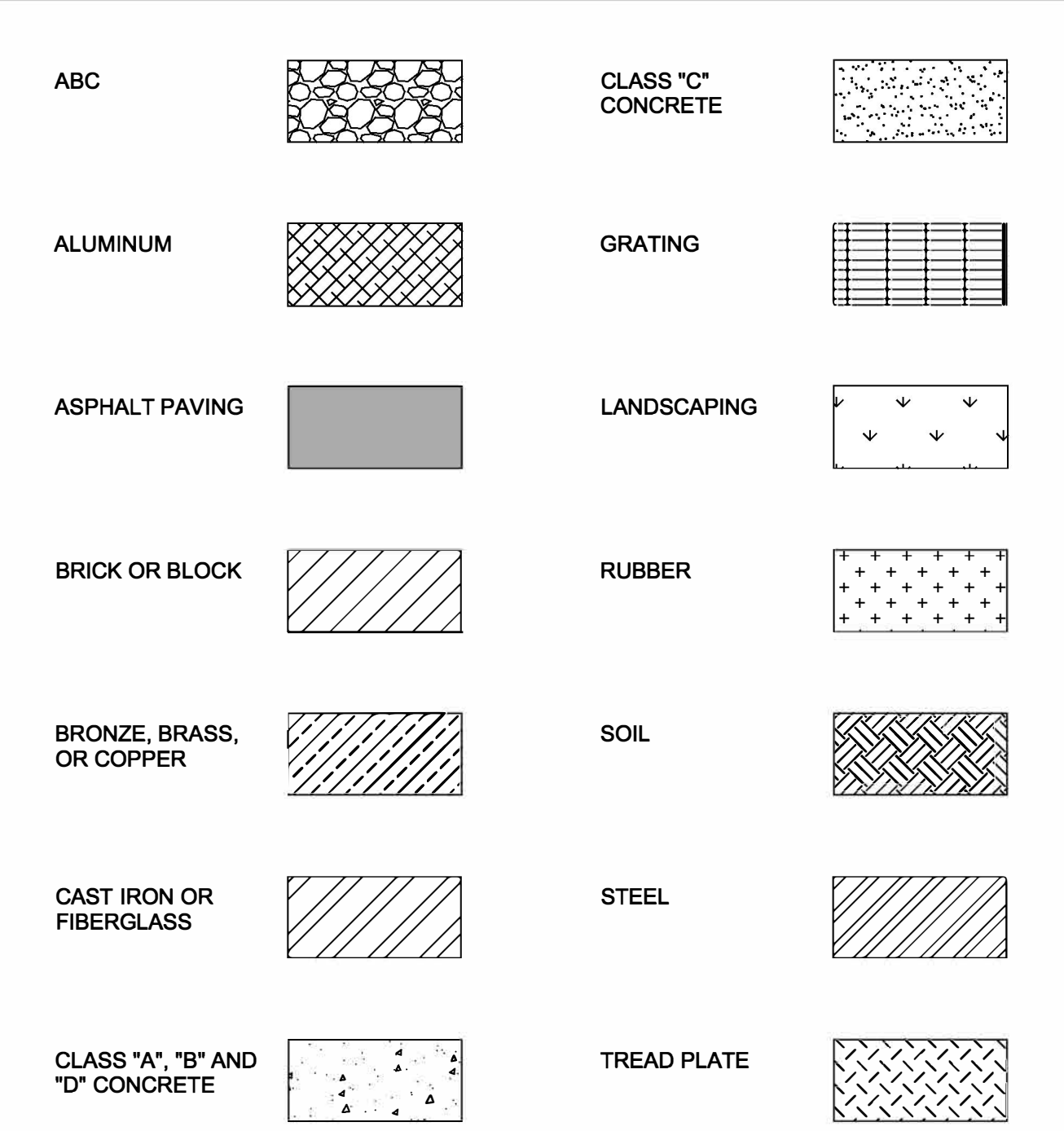


MODIFICATION NOTE
S = STANDARD
J = JOB SPECIFIC
R = REVISED
N = NOTE TO TYPICAL DETAIL USER

SHT # OF # SHEETS IN DETAIL

VER DATE DATE CREATED (REVISED)

HATCH PATTERNS



G-004

NCWRP EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE CONSTRUCTION PACKAGE

GENERAL GENERAL LEGEND AND SYMBOLS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 4 OF 11 SHEETS

WBS B-16140

FOR CITY ENGINEER: *Jeffrey A. Demich* DATE: 2/9/2021
PROJECT MANAGER: MONIKA SMOCZYNSKI

FOR CITY ENGINEER: *Andrea Demich* DATE: 2/9/2021
PROJECT MANAGER: THIEEN-LONG TRAN

DESCRIPTION BY APPROVED DATE FILMED

DATE STARTED DATE COMPLETED

40425-04-D

CONSULTANT

carollo

REGISTERED PROFESSIONAL ENGINEER
JEFFREY A. DEMICH
No. 75245
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED 1/29/2021

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

NORTH CITY WATER RECLAMATION PLANT

PIPING SCHEDULE							
LEGEND	SERVICE	SIZE (IN.) (NOTE 1)	MATERIAL (NOTE 3)	INSTALLATION	TEST PRESSURE, TYPE (PSIG, X) (NOTE 4)	MAXIMUM OPERATING PRESSURE (PSIG)	REMARKS
EDRF	ELECTRODIALYSIS REVERSAL FEED	ALL	PVC	ALL	75, H	75	ELECTRODIALYSIS REVERSAL FEED (EDRF)
EDRP	ELECTRODIALYSIS REVERSAL PRODUCT	≤ 12	PVC	EXPOSED	10, H	GRAVITY	ELECTRODIALYSIS REVERSAL PRODUCT (EDRP)
	ELECTRODIALYSIS REVERSAL PRODUCT	≤ 12	PVC	BURIED	10, H	GRAVITY	
	ELECTRODIALYSIS REVERSAL PRODUCT	> 12	PVC	EXPOSED	10, H	GRAVITY	
	ELECTRODIALYSIS REVERSAL PRODUCT	> 12	PVC	BURIED	10, H	GRAVITY	
OZI	OZONE GENERATOR INFLUENT	ALL	PVC	EXPOSED	30, H	30	OZONE GENERATOR INFLUENT (OZI)

NOTES:

- SYMBOLS:
 - < : LESS THAN
 - > : GREATER THAN
 - ≤ : LESS THAN OR EQUAL TO
 - ≥ : GREATER THAN OR EQUAL TO
- PIPE MATERIALS: ANY DEVIATIONS FROM THE DESIGNATED MATERIALS IN THIS SCHEDULE SHALL BE NOTED ON THE DRAWINGS.
 - CU : COPPER
 - PVC : POLYVINYL CHLORIDE
 - SST : STAINLESS STEEL
 - STL : STEEL
- TEST PER SPECIFICATION SECTION 40 80 01 - PROCESS PIPING LEAKAGE TESTING.
 - TESTING TYPE: H = HYDROSTATIC TEST
 - P = PNEUMATIC TEST
 - CPC = CALIFORNIA PLUMBING CODE

DRAWING INDEX

SHEET NO.	DRAWING NO.	DRAWING TITLE
GENERAL (G)		
1	G-001	COVER SHEET
2	G-002	PROJECT KEY PLAN
3	G-003	ABBREVIATIONS
4	G-004	GENERAL NOTES, LEGEND, AND SYMBOLS
5	G-005	PIPE SCHEDULE AND INDEX TO DRAWINGS
6	G-100	CIVIL NOTES, CIVIL GENERAL NOTES, CIVIL AND YARD PIPING LEGEND
7	G-400	STRUCTURAL GENERAL REQUIREMENTS, TYPICAL DETAILS, AND NOTES
8	G-401	STRUCTURAL GENERAL NOTES
DEMOLITION (D)		
9	D-001	YARD PIPING PLAN
CIVIL (C)		
10	C-001	YARD PIPING PLAN
11	C-002	PIPE SUPPORT DETAILS

G-005

**NCWRP EXPANSION AND NCPWF INFLUENT PUMP STATION
 AND PIPELINE CONSTRUCTION PACKAGE**

**GENERAL
 PIPE SCHEDULE AND INDEX TO DRAWINGS**

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC UTILITIES DEPARTMENT
 SHEET 5 OF 11 SHEETS

WBS B-16140

APPROVED: *[Signature]* DATE: 2/3/2021
 FOR CITY ENGINEER: *[Signature]* DATE: 2/3/2021
 PRINT DCE NAME: Andrea Demich RCE#

SUBMITTED BY:
MONIKA SMOCZYNSKI
 PROJECT MANAGER

CHECKED BY:
THIEN-LONG TRAN
 PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED

260-1709

CCS27 COORDINATE

1900-6269

CCS83 COORDINATE

40425-05-D



DIGITALLY SIGNED 1/29/2021

CONSULTANT



WARNING



IF THIS BAR DOES
 NOT MEASURE 1"
 THEN DRAWING IS
 NOT TO SCALE.

CONTRACTOR _____ DATE STARTED _____
 INSPECTOR _____ DATE COMPLETED _____

NORTH CITY WATER RECLAMATION PLANT

GENERAL SITE NOTES:

1. MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
2. FOR LOCATION OF CONTROL POINT ON YARD PIPING, SEE CIVIL DRAWINGS.
3. THE CONTRACTOR SHALL REMOVE ALL BURIED PIPING INCLUDING ABANDONED PIPING, PER PLAN. AFTER REMOVAL PROVIDE STRUCTURAL TRENCH BACKFILL AT 90% RELATIVE COMPACTION TO EXISTING GRADE ELEVATION AT ALL LOCATIONS.
4. STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEE PARKING, CONTRACTOR'S TRAILERS AND ON-SITE STORAGE OF MATERIALS. STAGING AREA IS DEPICTED ON DWG PK4-CG-100 AND SHALL OTHERWISE BE APPROVED BY RESIDENT ENGINEER.
5. PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SECURITY AT ALL TIMES.
6. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION CONTROL DEVICES DURING CONSTRUCTION.
8. CONTRACTOR SHALL TAKE ALL OTHER MEASURES TO POSITIVELY PRECLUDE EROSION MATERIALS FROM LEAVING THE SITE. CONTRACTOR TO SUBMIT EROSION CONTROL PLAN.

BASIS OF BEARING AND COORDINATES:

THE BASIS OF BEARING WAS HELD BY CH2MHILL COORDINATES AS SHOWN ON D-SHEET 26982-28.D

- NO. 1 STANDARD CITY OF SAN DIEGO WELL MONUMENT LOCATED AT THE CENTERLINE INTERSECTION OF EASTGATE MALL AND TOWN CENTER DRIVE
N 1,901,043.91 E 6,267,616.48
- NO. 2 STANDARD CITY OF SAN DIEGO WELL MONUMENT LOCATED ON THE CENTERLINE OF TOWN CENTER DRIVE AND APPROXIMATELY 867 LF FEET NORTHERLY OF EASTGATE MALL INTERSECTION
N 1,901,911.073 E 6,267,342.292

BENCHMARK:
BRASS PLUG IN FOOTING OF THE NORTHEAST CORNER OF THE HIGH VOLTAGE TOWER, SOUTHEAST OF EASTGATE MALL ELEVATION 367.96

SITE CONTROL:

- PT NO. 1, FOUND "MAG" NAIL IN ROAD "D", SOUTH OF THE INTERSECTION OF ROAD "B"
STATE PLANE COORDINATES:
N 1,901,025.005 E 6,270,371.387 ELEV 345.18
- PLANT COORDINATES:
N 5,034.378 E 2000.984 ELEV 345.18
- PT NO. 2, FOUND "MAG" NAIL IN ROAD "D" APPROXIMATELY 226 LF SOUTHERLY OF SITE CONTROL PT NO. 1.
STATE PLANE COORDINATES:
N 1,900,798.400 E 6,270,592.566 ELEV 347.280
- PLANT COORDINATES:
N 4717.747 E 1997.147 ELEV 347.280

GENERAL YARD PIPING AND UTILITIES NOTES:

1. EXISTING UNDERGROUND UTILITY INFORMATION HAS BEEN OBTAINED FROM AS-BUILTS AND FROM FIELD SURVEY. CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. UNLESS OTHERWISE NOTED PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
2. FOR PIPING FLOW STREAM IDENTIFICATION, SEE DRAWING G-103, G-104, G-105, G-500.
3. EXISTING PIPING AND EQUIPMENT ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW PIPING AND EQUIPMENT ARE SHOWN HEAVY-LINED.
4. UNLESS OTHERWISE SHOWN ALL PIPING SHALL HAVE A MINIMUM OF 3' COVER.
5. ALL PIPES SHALL HAVE A CONSTANT SLOPE BETWEEN INVERT ELEVATIONS UNLESS A FITTING IS SHOWN.
6. ALL NEW WATER PIPES MUST BE PROPERLY FLUSHED, PRESSURE TESTED, CHLORINATED AND BACTERIOLOGICALLY TESTED, AS SPECIFIED.
7. FOR TRENCHING AND BACKFILL, SEE (3123-930).
8. FOR SURFACE RESTORATION, SEE SPECIFICATION.
9. MINIMUM ALLOWABLE CLEARANCE BETWEEN PIPES AT CROSSINGS SHALL BE 3". CONTROLLED DENSITY FILL SUPPORT IS REQUIRED AS SHOWN ON (3123-762).

PROCESS DRAIN NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEWER BYPASSING ACTIVITIES TO ALLOW FOR THE INSTALLATION OF MODIFIED MANHOLE(S) AND NEW PROCESS DRAIN PIPELINES WITHOUT INTERRUPTING LIVE INBOUND FLOW. CONTRACTOR SHALL PROVIDE A BYPASS PLAN SEALED BY A REGISTERED CIVIL RESIDENT ENGINEER IN THE STATE OF CALIFORNIA FOR REVIEW AND APPROVAL PRIOR TO STARTING WORK.
2. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, POWER, AND MAINTENANCE TO INSTALL AND OPERATE TEMPORARY BYPASSING FOR THE PURPOSE OF DIVERTING EXISTING SANITARY DRAIN FLOWS AROUND EACH WORK AREA DESCRIBED FOR THE DURATION OF THE WORK IN THAT AREA.
3. PUMPS USED FOR BYPASSING MUST HAVE RUN-DRY CAPABILITY. ALL PUMPING UNITS SHALL BE PROVIDED WITH LEVEL SWITCHES FOR AUTO ON-OFF CONTROL OF THE PUMP. CONTRACTOR SHALL PROVIDE TEMPORARY GENSET FOR BYPASSING PUMPS (PROVIDE 150 GPM CAPACITY PUMP MIN.).
4. ALL BYPASSING EQUIPMENT IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL SECURE AND PROTECT BYPASSING EQUIPMENT FROM INTERRUPTION, THEFT AND ANY NON-CONSTRUCTION RELATED ACTIVITIES. ANY DEVIATION FROM THE CONTRACTOR'S APPROVED BYPASS PLAN OR REMOVAL OF BYPASSING EQUIPMENT SHALL BE APPROVED BY THE RESIDENT ENGINEER.

GENERAL NOTE:

1. THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE INFORMATION SHOWN MAY BE USED ON THIS PROJECT.

CIVIL LEGEND

EXISTING	THIS CONTRACT	
		SPOT ELEVATION
		CONTOUR LINE
		EMBANKMENT AND SLOPE
		DRAINAGEWAY OR DITCH
		CATCH BASIN OR INLET
		TRENCH DRAIN
		SIGN
		MANHOLE
		ELECTRICAL MANHOLE
		ELECTRIC HANDHOLE
		POST OR GUARD POST
		GUY ANCHOR
		FIRE HYDRANT
		UTILITY POLE
		LIGHT POLE
		BENCH MARK
		SURVEY CONTROL POINT OR POINT OF INTERSECTION
		BRUSH/TREE LINE
		TREE
		PROPERTY LINE
		CENTER LINE, BUILDING, ROAD, ETC.
		STAGING OR WORK AREA LIMITS
		STRUCTURE, BUILDING OR FACILITY LOCATION POINT - COORDINATES
		BORING LOCATION AND NUMBER
		TEST PIT LOCATION AND NUMBER
		PIEZOMETER LOCATION AND NUMBER
		DEMOLITION
		STRUCTURE, BUILDING OR FACILITY
		ASPHALT CONCRETE PAVEMENT
		GRAVEL SURFACING
		CONCRETE PAVEMENT
		CURB
		CURB AND GUTTER
		SINGLE SWING GATE
		DOUBLE SWING GATE
		SLIDING GATE
		GUARD RAIL
		CHAIN LINK FENCE
		ARCHITECTURAL FENCE
		WIRE FENCE
		CULVERT

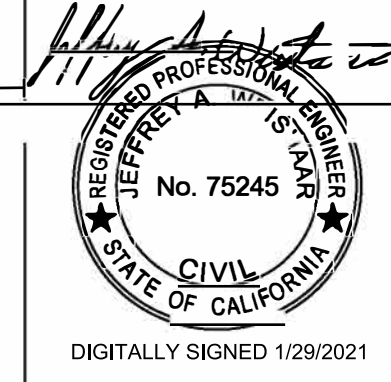
YARD PIPING LEGEND

EXISTING	THIS CONTRACT	
		NOMINAL PIPE DIAMETER
		PIPE USE IDENTIFICATION
		PIPING < 30" DIAMETER
		PIPING ≥ 30" DIAMETER
		EXISTING PIPE TO BE ABANDONED
		EXISTING PIPE TO BE REMOVED
		NON-FREEZE HOSE VALVE (V-X) X = NO. IN SPECIFICATIONS
		NON-FREEZE HOSE VALVE WITH HOSE RACK (V-X) X = NO. IN SPECIFICATIONS
		INDICATOR POST VALVE
		GATE VALVE AND VALVE BOX
		BUTTERFLY VALVE AND VALVE BOX
		PLUG VALVE AND VALVE BOX
		FLEXIBLE COUPLING
		90° ELBOW UP
		90° ELBOW DOWN
		BEND < 90° UP
		BEND < 90° DOWN
		CONCENTRIC REDUCER
		CAP OR PLUG
		CLEANOUT
		FIRE HYDRANT

WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



DIGITALLY SIGNED 1/29/2021

CONSULTANT

G-100

NCWRP EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE CONSTRUCTION PACKAGE

GENERAL CIVIL NOTES, CIVIL GENERAL NOTES CIVIL AND YARD PIPING LEGEND

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 6 OF 11 SHEETS

WBS B-16140

APPROVED: <i>Jeffrey A. Demich</i>	DATE: 2/9/2021	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
FOR CITY ENGINEER: Andrea Demich	DATE: C70321	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
PRINT DCE NAME: RCE#	RCE#	260-1709 CCS27 COORDINATE
DESCRIPTION	BY	APPROVED
DATE	FILMED	
DATE STARTED	DATE COMPLETED	1900-6269 CCS83 COORDINATE
		40425-06-D

Plot Date: 29-Jan-2021 11:35:38 AM User: hvo Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pen PlotScale: 1:1 LAST SAVED BY: hvo

STRUCTURAL ABBREVIATIONS			
A.B.	ANCHOR BOLT	GA.	GAUGE
@	AT	GALV.	GALVANIZED
ACI	AMERICAN CONCRETE INSTITUTE	GR.	GRADE
ADDN'L	ADDITIONAL	HK.	HOOK
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	HORIZ.	HORIZONTAL
ALT.	ALTERNATE	HT.	HEIGHT
APPROX.	APPROXIMATE	HSS	HOLLOW STRUCTURAL STEEL
ARCH'L	ARCHITECTURAL	I.D.	INSIDE DIAMETER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	INT.	INTERIOR
		JT.	JOINT
		L	LENGTH
BEL.	BELOW	LB	POUND
B.F.	BRACED FRAME	LLV	LONG LEG VERTICAL
BLDG.	BUILDING	LONG.	LONGITUDINAL
BM.	BEAM	MAT'L	MATERIAL
B.O.F.	BOTTOM OF FOOTING	MAX.	MAXIMUM
B.O.S.	BOTTOM OF STEEL	MECH'L.	MECHANICAL
BOT.	BOTTOM	MFR.	MANUFACTURER
B.U.	BACK UP	MIN.	MINIMUM
C	CAMBER	NO., #	NUMBER
CBC	CALIFORNIA BUILDING CODE	N.S.	NEAR SIDE
C.J.	CONSTRUCTION JOINT OR COLD JOINT	N.T.S.	NOT TO SCALE
C.J.P.	COMPLETE JOINT PENETRATION	O.C.	ON CENTER
CL	CENTER LINE	O.H.	OPPOSITE HAND
CL.R.	CLEAR	OPNG.	OPENING
CMU	CONCRETE MASONRY UNIT	PL., R	PLATE
COL.	COLUMN(S)	PERP.	PERPENDICULAR
CONC.	CONCRETE	R., RAD.	RADIUS
CONN.	CONNECTION	REINF.	REINFORCED, REINFORCING
CONSTR.	CONSTRUCTION	REQ'D.	REQUIRED
CONT.	CONTINUOUS	SCHED.	SCHEDULE
DBL.	DOUBLE	SHT.	SHEET
DIA.	DIAMETER	SH.	SIMILAR
DIM.	DIMENSION	S.M.S.	SHEET METAL SCREW
DWG.	DRAWING	SPC'G.	SPACING
DWL.	DOWEL	SPEC.	SPECIFICATION(S)
EA.	EACH	SQ.	SQUARE
E.F.	EACH FACE	S.S.	STAINLESS STEEL
E.J.	EXPANSION JOINT	STD.	STANDARD
EL., ELEV.	ELEVATION	STIFF.	STIFFENER
EMBED.	EMBEDMENT	STRUCT'L.	STRUCTURAL
E.O.S.	EDGE OF STEEL	SYMM.	SYMMETRICAL
EQ.	EQUAL	T&B	TOP & BOTTOM
EQUIP.	EQUIPMENT	THRD.	THREADED
E.S.	EACH SIDE	THRU	THROUGH
E.W.	EACH WAY	T.O.C.	TOP OF CONCRETE
EXIST., (E)	EXISTING	T.O.F.	TOP OF FOOTING
EXP.	EXPANSION	T.O.S.	TOP OF STEEL
F.F.	FINISH FLOOR	T.O.W.	TOP OF WALL
F.G.	FINISH GRADE	TYP.	TYPICAL
FLG.	FLANGE	U.O.N.	UNLESS OTHERWISE NOTED
FLR.	FLOOR	VERT.	VERTICAL
F.O.C.	FACE OF CONCRETE	V.I.F.	VERIFY IN FIELD
F.O.S.	FACE OF STEEL	W/	WITH
FRM'G.	FRAMING	WSHR.	WASHER
FRP	FIBER REINFORCED PLASTIC		
F.S.	FAR SIDE		
FT.	FOOT-FEET		
FTG.	FOOTING		

GENERAL STRUCTURAL NOTES									
GENERAL									
<ol style="list-style-type: none"> THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE ERECTION SHORING AND BRACING AS REQUIRED FOR STABILITY OF ALL STRUCTURES AND EMBANKMENTS DURING ALL PHASES OF CONSTRUCTION. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS. BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AND SHALL NOT PERFORM ANY WORK THAT WILL DAMAGE OR INTERFERE WITH THEIR SERVICE. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING FACILITIES AND UTILITIES AND SHALL NOT PERFORM ANY WORK THAT WILL DAMAGE OR INTERFERE WITH THEIR SERVICE. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURES. THEY DO NOT INDICATE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT EXISTING AND NEW STRUCTURES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING, ETC., FOR ALL CONSTRUCTION PHASE LOADS. DURING THE ENTIRE CONSTRUCTION PERIOD, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CONDITIONS AT THE JOB SITE SO AS TO MEET IN ALL RESPECTS ALL APPLICABLE SAFETY LAWS, RULES, ORDINANCES AND REGULATIONS. THIS PROVISION SHALL APPLY TO ALL PERSONNEL EMPLOYED OR SUPERVISED BY THE CONTRACTOR AT THE JOB SITE. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE. 									
REINFORCED CONCRETE									
<ol style="list-style-type: none"> ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS OF 4000 PSI. CEMENT SHALL CONFORM TO ASTM C150, TYPE III, MAXIMUM WATER-CEMENT RATIO SHALL BE 0.45. MAXIMUM SLUMP PER ASTM C143 SHALL BE 5" EXCEPT A MAXIMUM SLUMP OF 8" IS PERMITTED AFTER INTRODUCTION OF AN APPROVED "SUPERPLASTICIZER". MAXIMUM AGGREGATE SIZE SHALL BE 3/4". ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CORNERS UNLESS OTHERWISE NOTED. ALL CONSTRUCTION JOINTS SHALL BE ROUGHENED AND CLEANED PRIOR TO PLACING NEW CONCRETE. ALL CONSTRUCTION JOINTS IN CONCRETE SHALL HAVE A 1/4" MINIMUM AMPLITUDE ROUGHNESS. SANDBLAST AND CLEAN BEFORE PLACING NEW CONCRETE. 									
REINFORCING STEEL									
<ol style="list-style-type: none"> BAR REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60. WELDED BARS SHALL CONFORM TO ASTM A706. MINIMUM BAR LAP SPLICE LENGTHS SHALL BE 48 BAR DIAMETERS (2'-0" MINIMUM), UNLESS OTHERWISE INDICATED. ALL LAP SPLICES SHALL BE CONTACT LAP SPLICES UNLESS OTHERWISE INDICATED. BASE DOWELS SHALL MATCH VERTICAL WALL REINFORCING IN SIZE AND SPACING UNLESS OTHERWISE INDICATED. MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE ON THE DRAWINGS: <table border="0"> <tr><td>CONCRETE CAST AGAINST EARTH</td><td>3"</td></tr> <tr><td>FORMED CONCRETE EXPOSED TO EARTH</td><td>2"</td></tr> <tr><td>CONCRETE EXPOSED TO WEATHER</td><td>1 1/2"</td></tr> <tr><td>ALL OTHER</td><td>AS INDICATED</td></tr> </table> ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF ACI 315, <u>DETAILS AND DETAILING OF CONCRETE REINFORCEMENT</u>, UNLESS OTHERWISE NOTED. 		CONCRETE CAST AGAINST EARTH	3"	FORMED CONCRETE EXPOSED TO EARTH	2"	CONCRETE EXPOSED TO WEATHER	1 1/2"	ALL OTHER	AS INDICATED
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ALL OTHER	AS INDICATED								
STRUCTURAL STEEL									
<ol style="list-style-type: none"> SECTIONS <table border="0"> <tr><td>A. SHAPES W, WT: ASTM A 992 (Fy = 50 KSI)</td></tr> <tr><td>B. SHAPES S, ST, M, MT, HP, C, MC, L: ASTM A 36 (Fy = 36 KSI)</td></tr> <tr><td>C. PLATES AND BARS: ASTM A 36 (Fy = 36 KSI)</td></tr> <tr><td>D. PIPES: ASTM A 53, GRADE B (Fy = 35 KSI)</td></tr> <tr><td>E. HOLLOW STRUCTURAL SECTIONS: ROUND: ASTM A 500, GRADE C (Fy = 46 KSI) SQUARE AND RECTANGULAR: ASTM A 500, GRADE C (Fy = 50 KSI)</td></tr> </table> CONNECTIONS <table border="0"> <tr><td>A. BOLTS - STEEL TO STEEL: ASTM A 325 HIGH-STRENGTH BOLTS, WITH LOAD INDICATOR WASHERS.</td></tr> <tr><td>B. BOLTS - STEEL TO CONCRETE OR MASONRY: ANCHOR BOLTS WITH HEX FORGED HEAD. ASTM F593 GROUP 2, STAINLESS STEEL TYPE 316. ASTM F 1554, GRADE 36 GALVANIZED.</td></tr> <tr><td>C. WELDS - SHIELDED METAL ARC PROCESS USING E70-XX ELECTRODES.</td></tr> </table> 		A. SHAPES W, WT: ASTM A 992 (Fy = 50 KSI)	B. SHAPES S, ST, M, MT, HP, C, MC, L: ASTM A 36 (Fy = 36 KSI)	C. PLATES AND BARS: ASTM A 36 (Fy = 36 KSI)	D. PIPES: ASTM A 53, GRADE B (Fy = 35 KSI)	E. HOLLOW STRUCTURAL SECTIONS: ROUND: ASTM A 500, GRADE C (Fy = 46 KSI) SQUARE AND RECTANGULAR: ASTM A 500, GRADE C (Fy = 50 KSI)	A. BOLTS - STEEL TO STEEL: ASTM A 325 HIGH-STRENGTH BOLTS, WITH LOAD INDICATOR WASHERS.	B. BOLTS - STEEL TO CONCRETE OR MASONRY: ANCHOR BOLTS WITH HEX FORGED HEAD. ASTM F593 GROUP 2, STAINLESS STEEL TYPE 316. ASTM F 1554, GRADE 36 GALVANIZED.	C. WELDS - SHIELDED METAL ARC PROCESS USING E70-XX ELECTRODES.
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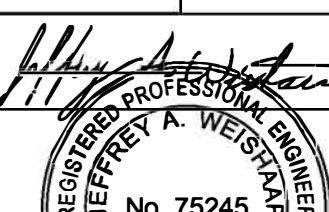
STRUCTURAL OBSERVATION	
STRUCTURAL OBSERVATION REQUIREMENTS	
<p>THE OWNER SHALL EMPLOY THE ENGINEER RESPONSIBLE FOR THE STRUCTURAL DESIGN, OR ANOTHER REGISTERED ENGINEER DESIGNATED BY THE ENGINEER RESPONSIBLE FOR THE STRUCTURAL DESIGN, TO PERFORM STRUCTURAL OBSERVATION AS DEFINED IN SECTION 1704.6 OF THE 2016 CALIFORNIA BUILDING CODE. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR, AND THE BUILDING OFFICIAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL AND OWNER A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.</p> <p>STRUCTURAL OBSERVATION SHALL BE PERFORMED AT THE FOLLOWING STAGES OF CONSTRUCTION:</p> <ol style="list-style-type: none"> EQUIPMENT PADS: PRIOR TO PLACEMENT OF STRUCTURAL CONCRETE. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER INSERTS SHALL BE SECURED IN PLACE PRIOR TO STRUCTURAL OBSERVATION. ADHESIVE ANCHORS: OBSERVATION OF REPRESENTATIVE DRILLED, CLEANED HOLES AND THE DEMONSTRATION OF TYPICAL INSTALLATION OF ANCHORS. 	

DESIGN CRITERIA	
DESIGN CRITERIA	
GOVERNING CODE: 2016 CALIFORNIA BUILDING CODE (CBC)	
LIVE LOAD = 100 PSF (REDUCIBLE)	
WIND DESIGN DATA	
ULTIMATE WIND SPEED = 115 MPH	
RISK CATEGORY III	
EXPOSURE B	
EARTHQUAKE DESIGN DATA	
I = 1.25 (RISK CATEGORY III)	
Ss = 1.065g	
S1 = 0.409g	
SITE CLASS D	
S0s = 0.763g	
S01 = 0.434g	
SEISMIC DESIGN CATEGORY D	
ANALYSIS BY EQUIVALENT LATERAL FORCE PROCEDURE	
EQUIPMENT AND TANKS	
EQUIPMENT: ASCE 7-10 CHAPTER 13	
TANKS: ASCE 7-10 CHAPTER 15	

STATEMENT OF SPECIAL INSPECTIONS		
TYPE OF WORK	INSPECTION TYPE	REFERENCED STANDARD
CONCRETE CONSTRUCTION Design Strength $f_c = 4,000$ psi	<ol style="list-style-type: none"> Inspect formwork for shape, location and dimensions of concrete members Verify use of required design mix Inspect reinforcing steel and placement Inspect bolts installed in concrete Inspect concrete placement Obtain specimens for strength tests, perform slump and air content tests and determine temperature Inspect maintenance of specified curing temperature and techniques 	ACI 318: 26.11.1.2 (b) ACI 318: 26.4.3, 26.4.4 ACI 318: 26.6.1-26.6.3 ACI 318: 17.8.2 ACI 318: 26.5 ASTM C172, ASTM C31, ACI 318: 26.4, 26.12 ACI 318: 26.5.3 - 26.5.5
2. STRUCTURAL STEEL	<ol style="list-style-type: none"> Verify that the identification markings conform to ASTM standards specified in the approved construction documents Verify manufacturer's certified mill test reports 	AISC 360-10, CHAPTER N
3. HIGH-STRENGTH BOLTS, NUTS AND WASHERS	<ol style="list-style-type: none"> Manufacturer's certificate of compliance required Inspect bearing-type connections (pre-tensioned) Inspect Class A faying surfaces 	AISC 360-10, CHAPTER N
4. WELDING	<ol style="list-style-type: none"> Verify that the identification markings of weld filler materials conform to AWS specification in the approved construction documents Manufacturer's certificate of compliance required Inspect complete and partial penetration groove welds Inspect multipass fillet welds Inspect single-pass fillet welds > 5/16" Inspect single-pass fillet welds < 5/16" Inspect roof deck welds 	AISC 360-10, CHAPTER N AWS D1.3
5. COMPONENTS ANCHORAGE.	<ol style="list-style-type: none"> Seismic anchorage of piping systems. 	CBC 1705.13.2 ASCE 7-10, 13.2.1
6. ADHESIVE ANCHORS	<ol style="list-style-type: none"> Anchorage of threaded rods and reinforcing bars in concrete 	ICC ESR-3187
7. SPECIAL INSPECTION	<ol style="list-style-type: none"> "Notice to Applicant/Owner/Owner's Agent/Architect or Engineer Of Record: By using this permitted construction drawings for construction/installation of the work specified herein, you agree to comply with the requirements of the City of San Diego for special inspections, structural observations, construction materials testing and off-site fabrication of building components, contained in the statement of special inspections and, as required by the California construction codes." "Notice to Contractor/Builder/Installer/Sub-Contractor/Owner-Builder: By using this permitted construction drawings for construction/installation of the work specified herein, you acknowledge and are aware of, the requirements contained in the statement of special inspections. You agree to comply with the requirements of City of San Diego for special inspections, structural observations, construction materials testing and off-site fabrication of building components, contained in the statement of special inspections and, as required by the California construction codes." "The special inspector must be certified by the City of San Diego, Development Services, in the category of work required to have special inspection." "The construction materials testing laboratory must be approved by the City of San Diego, Development Services, for testing of materials, systems, components, and equipment." "Fabricator must be approved by the City of San Diego, Development Services for the fabrication of members and assemblies on the premises of the fabricator's shop." "Fabricator shall submit an 'Application to perform Off-Site Fabrication' to the Inspection Services Division for approval prior to commencement of fabrication." "Fabricator shall submit a 'Certificate of Compliance for Off-Site Fabrication' to the Inspection Services Division prior to erection of fabricated items and assemblies." "The special inspections identified on plans are, in addition to, and not a substitute for, those inspections required to be performed by a City's building inspector." 	

CONTRACTOR RESPONSIBILITY											
CONTRACTOR RESPONSIBILITY											
<ol style="list-style-type: none"> THE CONTRACTOR SHALL SUBMIT A WRITTEN "STATEMENT OF CONTRACTOR'S RESPONSIBILITY" PRIOR TO ISSUANCE OF THE PERMIT CONTAINING THE FOLLOWING: <ol style="list-style-type: none"> ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION; ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL; PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS; AND IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION. THE CONTRACTOR SHALL SUBMIT TO THE CITY DIVISION OF BUILDING & SAFETY - INSPECTION SERVICES A "CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION". 											
DESIGNATED SEISMIC SYSTEMS REQUIRING SPECIAL INSPECTION											
<ol style="list-style-type: none"> PIPING SYSTEMS AND MECHANICAL UNITS CONTAINING FLAMMABLE, COMBUSTIBLE OR HIGHLY TOXIC MATERIALS. ANCHORAGE OF EQUIPMENT. 											
STRUCTURAL TESTING FOR SEISMIC RESISTANCE											
<ol style="list-style-type: none"> REINFORCING STEEL: <ul style="list-style-type: none"> CERTIFIED MILL TEST REPORTS SHALL BE PROVIDED FOR EACH SHIPMENT OF REINFORCING STEEL. SHOP DRAWINGS. POST INSTALLED ADHESIVE ANCHORS IN CONCRETE <ol style="list-style-type: none"> TEST 5% OF INSTALLED ANCHORS. IF AN ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME SIZE UNTIL TEN (10) CONSECUTIVE ANCHORS PASS; THEN RESUME INITIAL TEST FREQUENCY. ANCHORS SHALL BE TESTED BY THE "HYDRAULIC RAM METHOD." A HYDRAULIC CYLINDER SHALL BE USED TO APPLY THE TENSION TEST LOAD TO THE ANCHOR WITH THE CYLINDER SUPPORTED ON A LOADING PLATE HAVING A WHOLE DIAMETER EQUAL TO 1.5 TO 2.0 TIMES THE ANCHOR HOLD DIAMETER. REACTION LOADS FROM THE TEST EQUIPMENT MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED IF THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE EQUIPMENT. APPLY PROOF TEST LOADS TO ANCHORS WITHOUT REMOVING THE NUT, IF POSSIBLE. IF NOT POSSIBLE, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS AS THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD. 											
<table border="0"> <tr> <td colspan="2" style="text-align: center;">PROOF TEST LOADS</td> </tr> <tr> <td colspan="2" style="text-align: center;">ASTM F593 STAINLESS STEEL</td> </tr> <tr> <td style="text-align: center;">ANCHOR DIAMETER (IN.)</td> <td style="text-align: center;">TENSION LOAD (LBS)</td> </tr> <tr> <td style="text-align: center;">1/2</td> <td style="text-align: center;">3,400</td> </tr> <tr> <td style="text-align: center;">5/8</td> <td style="text-align: center;">5,400</td> </tr> </table>		PROOF TEST LOADS		ASTM F593 STAINLESS STEEL		ANCHOR DIAMETER (IN.)	TENSION LOAD (LBS)	1/2	3,400	5/8	5,400
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<ol style="list-style-type: none"> TEST EQUIPMENT SHALL BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH RECOGNIZED STANDARD PROCEDURES. ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE SPECIAL INSPECTOR/INSPECTOR OF RECORD. 											

G-400

NCWRP EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE CONSTRUCTION PACKAGE			
GENERAL STRUCTURAL GENERAL REQUIREMENTS TYPICAL DETAILS AND NOTES 1			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT		WBS B-16140	
SHEET 7 OF 11 SHEETS			
APPROVED:  JEFFREY A. WESTLAKE REGISTERED PROFESSIONAL ENGINEER No. 75245 CIVIL STATE OF CALIFORNIA	DATE: 2/9/2021 DATE: C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER	
CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER	260-1709 CCS27 COORDINATE		
1900-6269 CCS83 COORDINATE			40425-07-D
CONTRACTOR: _____ INSPECTOR: _____	DATE STARTED: _____ DATE COMPLETED: _____		ADDENDUM B

NORTH CITY WATER RECLAMATION PLANT

Plot Date: 29-JAN-2021 11:36:11 AM

User: hvo

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: hvo

GENERAL NOTES:

- USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH PROJECT DRAWINGS BY OTHER DISCIPLINES AND WITH THE SPECIFICATIONS.
- UNLESS DETAILED, SPECIFIED, OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE GENERAL NOTES AND TYPICAL DETAILS.
- PRESENTATION CONVENTIONS FOR STRUCTURAL DRAWINGS:
 - SCREENED LINE WORK INDICATES EXISTING CONDITIONS.
 - WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED SIZES.
 - PLANS ARE TREATED AS HORIZONTAL SECTIONS. (I.E.: "PLAN AT ELEVATION 110" SHOWS CONSTRUCTION AT AND BELOW ELEVATION 110.)
- VERIFY DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK. ADVISE RESIDENT ENGINEER IMMEDIATELY OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DIMENSIONS, AND INFORMATION SHOWN ON THESE DRAWINGS. CONFIRM THE FOLLOWING BEFORE PREPARATION AND SUBMITTAL OF SHOP DRAWINGS:
 - DIMENSIONS AND WEIGHTS FOR EQUIPMENT SELECTED.
 - SIZES AND LOCATIONS OF EQUIPMENT PADS FOR EQUIPMENT SELECTED.
- TYPICAL DETAILS ARE INCLUDED ON THE TYPICAL DETAIL BOOK.
 - TYPICAL DETAILS ARE INTENDED TO APPLY AT LOCATIONS DESCRIBED BY THEIR TITLES, EVEN WHEN NOT SPECIFICALLY REFERENCED ON THE DRAWINGS.
 - IN STRUCTURAL TYPICAL DETAILS, ORIENTATION OF BARS IN EACH MAT OF REINFORCEMENT (WHETHER "LINES" OR "DOTS" ARE CLOSER TO THE FACE OF THE CONCRETE) IS GENERALLY ARBITRARY. SEE DRAWINGS OF EACH STRUCTURE FOR ORIENTATION REQUIRED AT THAT STRUCTURE.
- SEE CIVIL DRAWINGS FOR STRUCTURE COORDINATES. POINTS ON THE STRUCTURES TO WHICH SITE COORDINATES REFER ARE SHOWN ON THE STRUCTURAL PLANS.
- DRAWINGS PREPARED BY OTHER DISCIPLINES INCLUDE OPENINGS, ANCHORS, PIPES, CONDUITS, AND OTHER ITEMS THAT ARE EMBEDDED INTO OR PASS THROUGH STRUCTURES.
 - CONFIRM SIZE AND LOCATIONS OF OPENINGS, PENETRATIONS AND EMBEDMENT FOR ITEMS AND EQUIPMENT FURNISHED.
 - IN GENERAL, OPENINGS, EMBEDMENTS, AND PENETRATIONS LESS THAN 12 INCHES IN DIAMETER ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 - SEE MECHANICAL DRAWINGS FOR DETAILS OF PIPE PENETRATIONS, PIPE SUPPORTS, AND ASSOCIATED STRUCTURAL REQUIREMENTS.
 - SEE MECHANICAL DRAWINGS FOR EQUIPMENT PADS AND PIPE SUPPORTS.

GEOTECHNICAL REPORT / FOUNDATION DESIGN CRITERIA:

- GEOTECHNICAL INVESTIGATION REPORT:

TITLE: REPORT OF GEOTECHNICAL INVESTIGATION NORTH CITY WATER RECLAMATION PLANT EXPANSION CITY OF SAN DIEGO.

PREPARED BY: ALLIED GEOTECHNICAL ENGINEERS, INC.,
REPORT NO: 44F1, DATED: AUGUST 9, 2017.

FOUNDATION DESIGNS ARE BASED ON RECOMMENDATIONS IN THE GEOTECHNICAL INVESTIGATION REPORT.

 - NET ALLOWABLE BEARING PRESSURE: 2500 PSF.
 - LATERAL EARTH PRESSURE (UNO):
SURCHARGE: EQUIVALENT TO 2 FT OF SOIL ABOVE FINISH GRADE.

ACTIVE (PSF/FT)	35
AT REST (PSF/FT)	60
PASSIVE (PSF/FT)	350
 - SLIDING COEFFICIENT OF FRICTION: 0.3

TYPICAL STRUCTURAL MATERIALS:

- MATERIALS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- SEE PROJECT SPECIFICATIONS AND NOTES ON DRAWINGS OF SPECIFIC STRUCTURES FOR DETAILED AND LOCATION-SPECIFIC REQUIREMENTS.

CONSTRUCTION:

CONFORM TO THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

EXCAVATION AND BACKFILLING:

- EXPOSE AND PREPARE SUBGRADE AS SHOWN ON THE DRAWINGS AND SPECIFIED.
- DO NOT PLACE BACKFILL AGAINST WALLS UNTIL STRUCTURES SUPPORTING THE TOP OF THE WALL ARE IN PLACE, ARE COMPLETE, AND (IN THE CASE OF CONCRETE) HAVE CURED TO THEIR MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
- WHERE BACKFILL MUST BE PLACED AGAINST WALLS BEFORE STRUCTURES ABOVE ARE COMPLETE, PROVIDE BRACING FOR WALLS PER ENGINEER'S APPROVAL. KEEP BRACING IN PLACE UNTIL THE STRUCTURE ABOVE IS COMPLETE AND (IN THE CASE OF CONCRETE) HAS CURED TO ITS MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH.


CONCRETE:

- SEE S101/TYP FOR CONCRETE NOTES, INCLUDING CLEAR COVER AND LAP SPLICE LENGTH REQUIREMENTS FOR REINFORCING.
- PROVIDE REINFORCING:
 - AT CORNERS AND JUNCTIONS - AS INDICATED IN S144/TYP, SUPPLEMENT WITH ADDED BARS WHERE INDICATED ON THE DRAWINGS.
 - AT OPENINGS - AS INDICATED IN S180/TYP.
- WELDING OF REINFORCING IS NOT PERMITTED UNLESS DETAILED ON THE DRAWINGS OR ACCEPTED IN ADVANCE BY THE RESIDENT ENGINEER.
- MAINTAIN MINIMUM 3 INCHES CLEAR CONCRETE COVER BETWEEN REINFORCING AND EMBEDMENTS.

STEEL, STAINLESS STEEL, AND ALUMINUM - CONNECTIONS:

- BOLTED:
 - MADE USING 3/4-INCH DIAMETER BOLTS.
 - HAVING A MINIMUM OF 2 BOLTS, SPACED NOT CLOSER THAN 3 INCHES ON CENTER.
 - WITH A DISTANCE OF AT LEAST 1 1/2 INCHES FROM CENTER OF BOLT TO ANY EDGE OF A PLATE OR STRUCTURAL ELEMENT.
- WELDED:
 - FILLET WELDS: PER AWS CODE BASED ON THE THICKNESS OF THE MATERIALS BEING JOINED, AND FULL LENGTH OF THE JOINT.
- INTERFACE BETWEEN MATERIALS:
 - AT BOLTED CONNECTIONS THAT INCLUDE DIFFERENT METALS (E.G.: STEEL AND STAINLESS STEEL, OR ALUMINUM AND STAINLESS STEEL) PROVIDE ISOLATING SLEEVES AND WASHERS AS SPECIFIED IN SECTION 05 50 00, METAL FABRICATIONS.
 - WHERE ALUMINUM IS IN CONTACT WITH MASONRY OR CONCRETE, COAT ALUMINUM SURFACES AS SPECIFIED IN SECTION 09 90 00, PAINTING AND COATING
- POST-INSTALLED ANCHORS IN CONCRETE AND MASONRY:
 - INSTALL IN FULL COMPLIANCE WITH ACCEPTED BUILDING CODE EVALUATION REPORT AND MANUFACTURER'S INSTRUCTIONS.
 - DO NOT CUT, DAMAGE, OR INTERRUPT EXISTING REINFORCEMENT TO INSTALL ANCHORS. USE NON-DESTRUCTIVE TESTING EQUIPMENT TO IDENTIFY LOCATIONS OF REINFORCEMENT IN MEMBERS BEFORE DRILLING HOLES FOR ANCHORS.

CONSULTANT









DIGITALLY SIGNED 1/29/2021

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

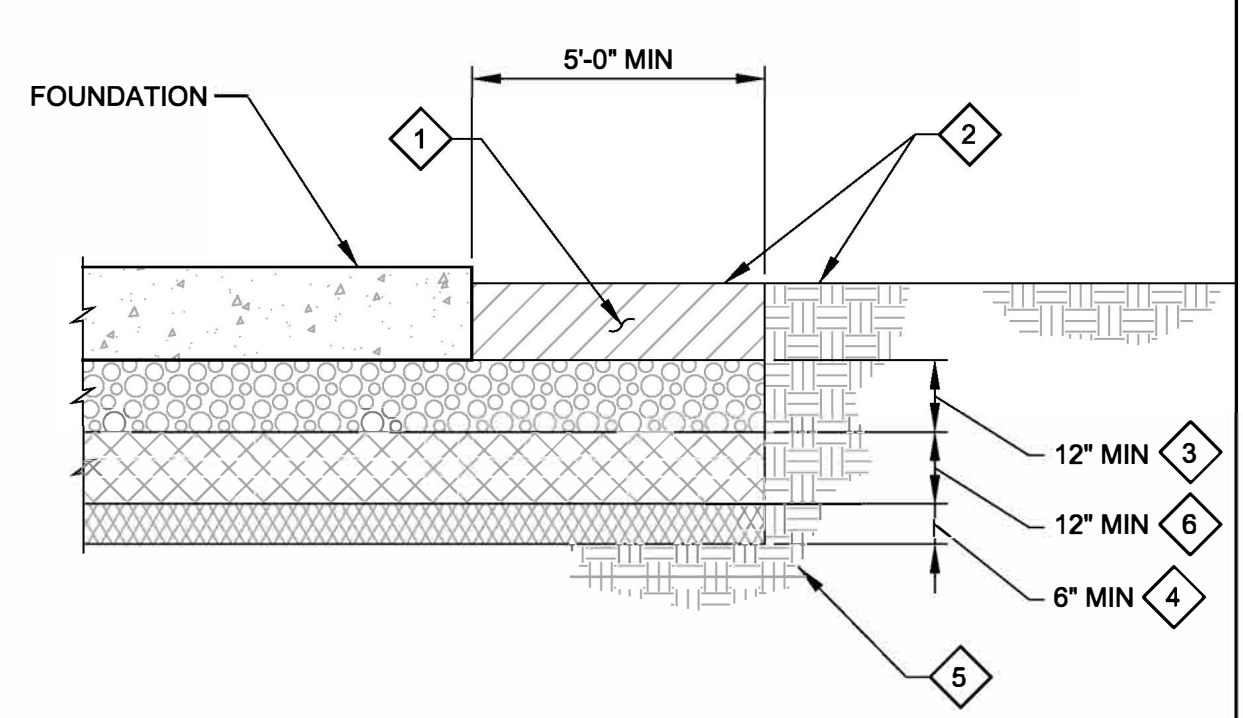
GENERAL NOTES:

- PRIOR TO PLACING FILL, THE GEOTECHNICAL ENGINEER SHALL REVIEW AND VERIFY THE BOTTOM OF ALL EXCAVATIONS ARE SUITABLE FOR PLACING COMPACTED FILL.
- LEGEND:

	CONCRETE
	STRUCTURAL BACKFILL
	STRUCTURAL FILL
	AGGREGATE BASE COURSE OR CRUSH AGGREGATE BASE
	SCARIFIED NATIVE MATERIAL
	UNDISTURBED EARTH MATERIAL

KEY NOTES:

- STRUCTURAL BACKFILL UNLESS OTHERWISE SPECIFIED COMPACT TO 90% RELATIVE COMPACTION. COMPACT THE UPPER 12 INCHES OF BACKFILL TO 95% RELATIVE COMPACTION UNDER SIDE WALKS AND ASPHALT AREAS (TYP)
- APPROX FINISH GRADE
- AGGREGATE BASE COURSE (ABC) PER SPEC 32 11 23 COMPACTED TO 95% RELATIVE COMPACTION (TYP)
- SCARIFIED NATIVE MATERIAL SHOULD BE MOISTURE CONDITIONED WITHIN 2% OF OPTIMUM MOISTURE CONTENT AND COMPACTED TO 90% RELATIVE COMPACTION PER ASTM D1557
- UNDISTURBED EARTH
- STRUCTURAL FILL. COMPACT TO 90% RELATIVE COMPACTION PER ASTM D1557



A TYPICAL SHALLOW SECTION - FOUNDATIONS
SCALE: NTS
FILE:

G-401

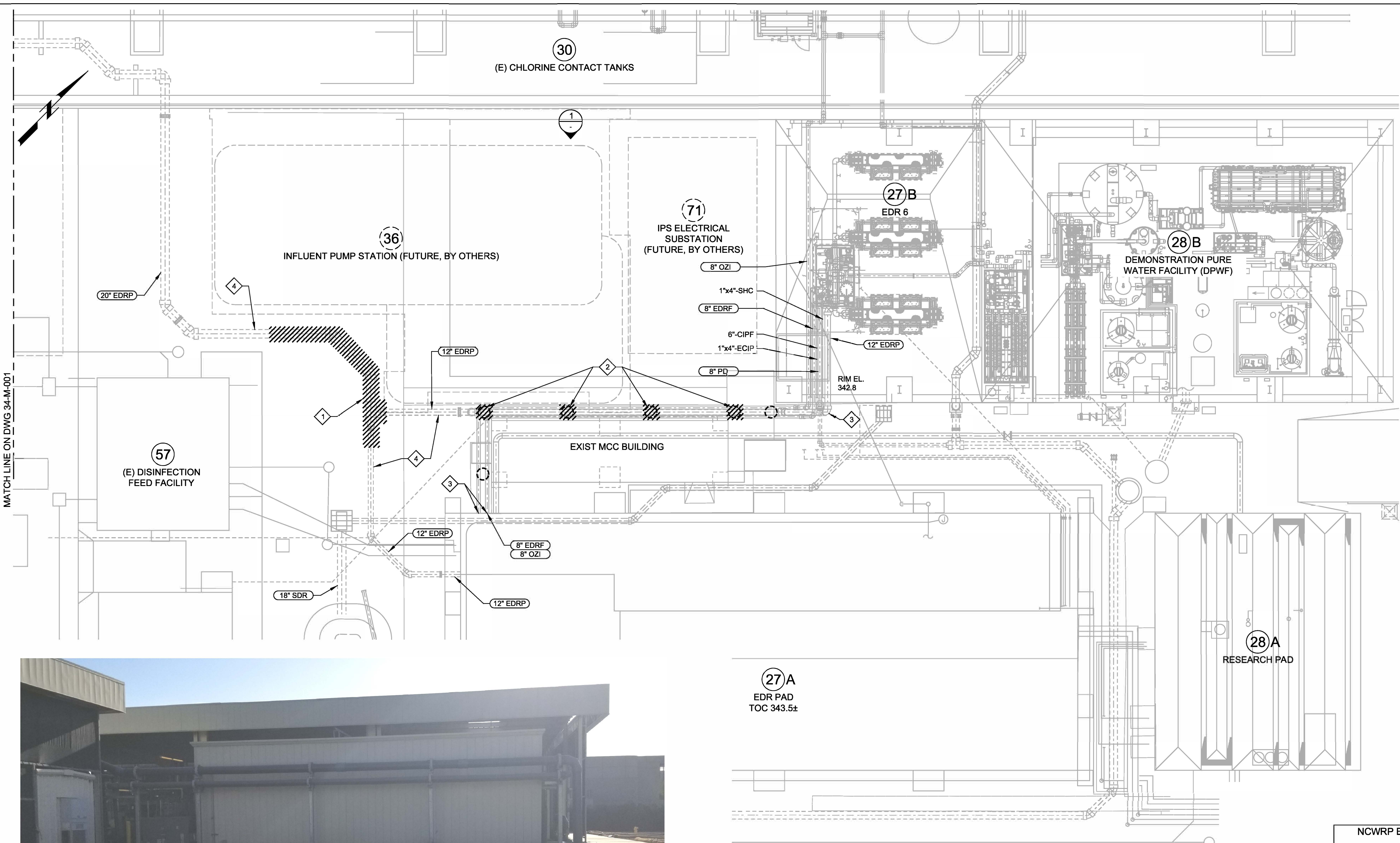
NCWRP EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE CONSTRUCTION PACKAGE

**STRUCTURAL
STRUCTURAL GENERAL NOTES 2**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT		WBS <u>B-16140</u>	
SUBMITTED BY: <u>Jeffrey A. ...</u>		SUBMITTED BY: <u>MONIKA SMOCZYNSKI</u>	
FOR CITY ENGINEER: <u>Andrea Demich</u>		PROJECT MANAGER	
DATE: <u>2/9/2021</u>		PROJECT ENGINEER: <u>THIEN-LONG TRAN</u>	
PRINT DCE NAME: _____		PROJECT ENGINEER	
CHECKED BY: _____		260-1709 CCS27 COORDINATE	
DESCRIPTION		1900-6269 CCS83 COORDINATE	
BY	APPROVED	DATE	FILED
DATE STARTED		40425-08-D	
DATE COMPLETED			

NORTH CITY WATER RECLAMATION PLANT

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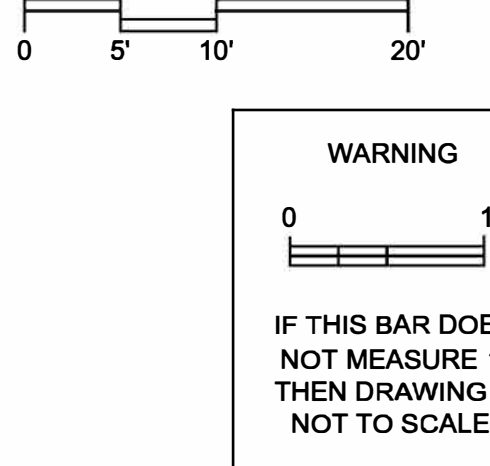
- GENERAL NOTES**
1. THESE PLANS HAVE BEEN PREPARED, IN PART, BASED ON AVAILABLE RECORD INFORMATION. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS AND UTILITY LOCATIONS PRIOR TO BEGINNING THE WORK.
 2. ACCESS INTO THE SITE, INTO BUILDINGS, AND AROUND THE AREA OF WORK MUST BE MAINTAINED AT ALL TIMES FOR CITY ACCESS.
 3. UNLESS OTHERWISE NOTED, PROTECT ALL EXISTING FACILITIES IN PLACE DURING THE COURSE OF THE WORK.
 4. COORDINATE ALL ACTIVITIES WITH CONSTRUCTION PACKAGE 3 – NCPWF IPS AND CONVEYANCE
- CONSTRUCTION NOTES**
- 1 RELOCATE EXISTING TEE AND PIPE PER C-001
 - 2 REMOVE, STORE AND PROTECT EXISTING PIPE SUPPORTS AND DEMOLISH PEDESTALS. FOLLOWING COMPLETION OF INFLUENT PUMP STATION, REINSTALL PIPE SUPPORTS ON NEW PEDESTALS PER DETAIL 1/C-002
 - 3 DISMANTLE 8" OZI, 8" EDRF AND 12" EDRP AND PROVIDE BYPASS IN ACCORDANCE WITH C-001.
 - 4 PROTECT EDRP PIPE IN PLACE



1 DETAIL PHOTO
 SCALE: NTS
 FILE: PK3_10641A10_D001

27 A
 EDR PAD
 TOC 343.5±

B PLAN
 SCALE: 1" = 10'-0"
 FILE: 10641A10_C101



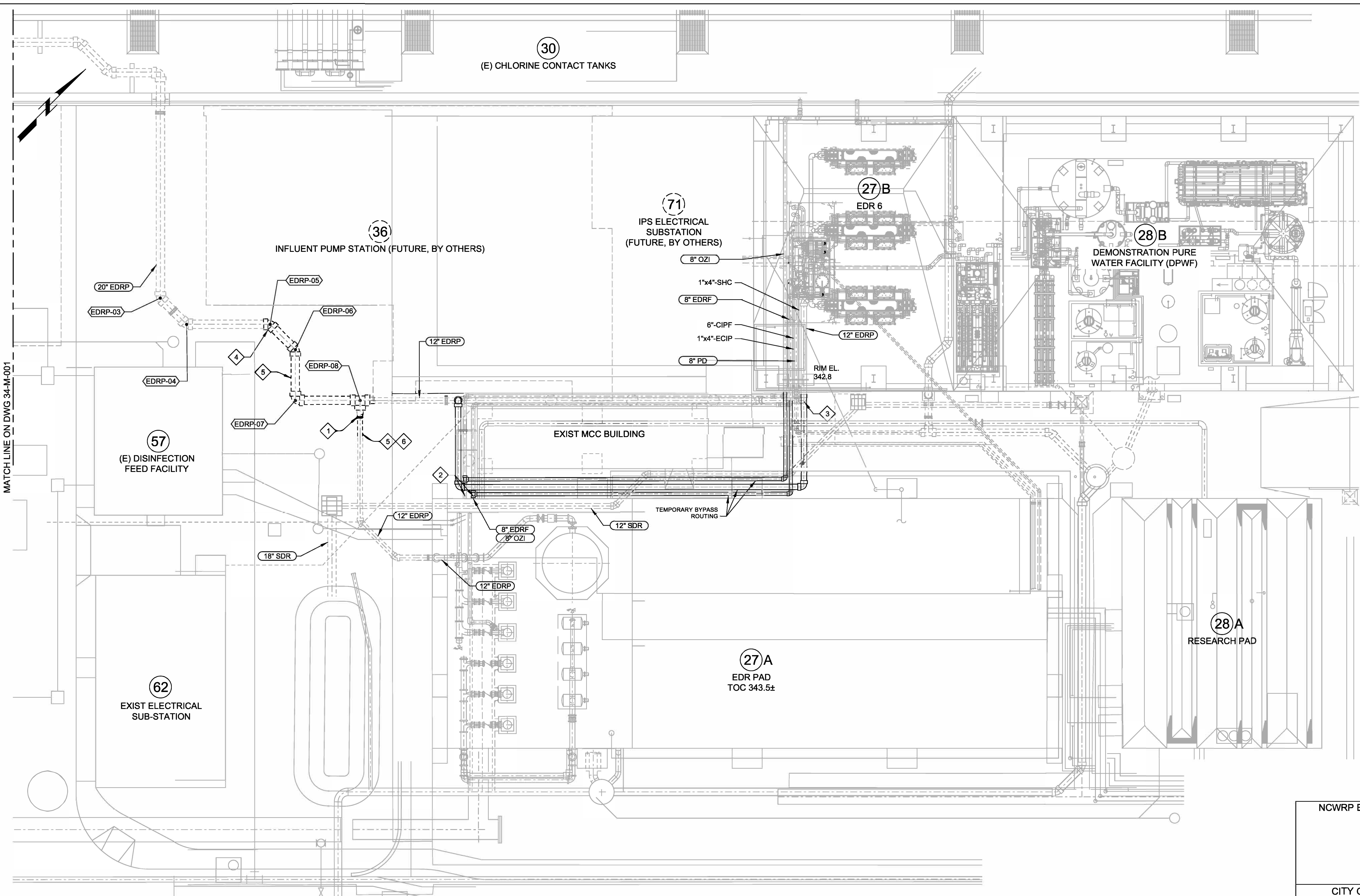
CONSULTANT

DIGITALLY SIGNED 1/29/2021

NCWRP EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE CONSTRUCTION PACKAGE DEMO YARD PIPING PLAN				D-001
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 9 OF 11 SHEETS			WBS <u>B-16140</u>	
APPROVED: FOR CITY ENGINEER PRINT DCE NAME: <u>Andrea Demich</u>	DATE: <u>2/3/2021</u> DATE: <u>C70321</u>	SUBMITTED BY: <u>MONIKA SMOczynski</u> PROJECT MANAGER		
DESCRIPTION BY APPROVED DATE FILMED	CHECKED BY: <u>THIEN-LONG TRAN</u> PROJECT ENGINEER		<u>260-1709</u> CCS27 COORDINATE <u>1900-6269</u> CCS83 COORDINATE	
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED		<u>40425-09-D</u>

NORTH CITY WATER RECLAMATION PLANT

Plot Date: 29-JAN-2021 1:37:58 PM
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 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std_Pen_v0905.pen PlotScale: 1:1
 LAST SAVED BY: hvo
 MATCH LINE ON DWG 34-M-001



- GENERAL NOTES**
- THESE PLANS HAVE BEEN PREPARED, IN PART, BASED ON AVAILABLE RECORD INFORMATION. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS AND UTILITY LOCATIONS PRIOR TO BEGINNING THE WORK.
 - ACCESS INTO THE SITE, INTO BUILDINGS, AND AROUND THE AREA OF WORK MUST BE MAINTAINED AT ALL TIMES FOR CITY ACCESS.
 - UNLESS OTHERWISE NOTED, PROTECT ALL EXISTING FACILITIES IN PLACE DURING THE COURSE OF THE WORK.
 - IN NO WAY SHALL THE CONTRACTOR BLOCK EMERGENCY VEHICLE ACCESS TO/FROM THE SITE. COORDINATE LARGE DELIVERY ITEMS WITH CITY, AT LEAST 48 HOURS IN ADVANCE.
 - CONTRACTOR SHALL FIELD VERIFY HORIZONTAL LOCATION AND COORDINATES PROVIDED PRIOR TO INSTALLATION OF PROPOSED IMPROVEMENTS.
 - CONTRACTOR SHALL FIELD VERIFY VERTICAL LOCATION OF ALL EXIST BURIED UTILITIES IN CONFLICT WITH PROPOSED IMPROVEMENTS.
 - CONTRACTOR SHALL REPLACE ALL EXISTING VEGETATION AND LANDSCAPING IN KIND IN DISTURBED LANDSCAPED AREAS.
 - NOT USED.
 - THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, POWER AND MAINTENANCE TO INSTALL AND OPERATE TEMPORARY BYPASSING FOR THE PURPOSE OF DIVERT FLOW AROUND MCC WORK AREA FOR DURATION OF THE WORK IN THAT AREA.
 - ALL BYPASSING EQUIPMENT IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL SECURE AND PROTECT BYPASSING EQUIPMENT FROM INTERRUPTION, THEFT, AND ANY NON-CONSTRUCTION RELATED ACTIVITIES. ANY DEVIATION FROM THE CONTRACTOR'S APPROVED BYPASS PLAN OR REMOVAL OF BYPASS EQUIPMENT SHALL BE APPROVED BY THE RESIDENT ENGINEER.
 - COORDINATE WITH CONSTRUCTION MANAGER FOR COATING AND COLOR OF EXPOSED EXISTING PVC PIPING IN OZONE/BAC AREA, AREA 27A AND 27B.
 - EXPOSED PVC PIPE IN OZONE/ BAC AREA, AREA 27A AND 27B SHALL BE COATED WITH MIN 2 COATS OF 320 SQ FT PER GAL PER COAT, TOTAL MIL THICKNESS 4-8 MILS. SHERMAN WILLIAMS SHER GRYL HPA OR EQUAL. SURFACE PREP TO INCLUDE HAND SANDING SURFACES WITH MEDIUM GRIT SANDPAPER TO PROVIDE TOOTH FOR COATING SYSTEM OR MANUFACTURER RECOMMENDATION, REFER TO REFERENCE DRAWING SET FOR DEMONSTRATION PURE WATER FACILITY OZONE/BAC RELOCATION PROJECT FOR NEW PIPING TO BE COATED.
 - COORDINATE ALL ACTIVITIES WITH CONSTRUCTION PACKAGE 3 - NCPWF IPS AND CONVEYANCE

- CONSTRUCTION NOTES**
- RELOCATED FLEXIBLE COUPLING
 - INTERCEPT 8" OZI AND 8" EDRF FLOW AT SOUTHWEST CORNER OF MCC BUILDING. PROVIDE BYPASS PIPING TO AVOID PUMP STATION CONSTRUCTION ON NORTH SIDE OF MCC
 - INTERCEPT 12" EDRP FLOW AT SOUTHWEST CORNER OF AREA 27B. PROVIDE BYPASS PIPING TO AVOID PUMP STATION CONSTRUCTION ON NORTH SIDE OF MCC
 - NEW 20" EDRP PIPING SEGMENTS TO MAINTAIN ORIGINAL SLOPE FOR GRAVITY FEED INTO CONTACT BASIN. TOP OF PIPE ELEVATION APPROXIMATELY 27' BELOW GRADE.
 - PROVIDE 12" AND 20" PVC SCH 40 PIPE AND FITTINGS IN KIND.
 - NEW 12" EDRP PIPING SEGMENT TO MAINTAIN ORIGINAL SLOPE FOR GRAVITY FEED INTO CONTACT BASIN. TOP OF PIPE ELEVATION APPROXIMATELY 49' BELOW GRADE.

B PLAN
 SCALE: 1" = 10'-0"
 FILE: 10641A10_C101

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



CONSULTANT

Jeffrey A. Weiskopf
 REGISTERED PROFESSIONAL ENGINEER
 No. 75245
 CIVIL
 STATE OF CALIFORNIA

DIGITALLY SIGNED 1/29/2021

C-001

NCWRP EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE CONSTRUCTION PACKAGE

CIVIL YARD PIPING PLAN

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC UTILITIES DEPARTMENT
 SHEET 10 OF 11 SHEETS

APPROVED: *Andrea Demich* DATE: 2/3/2021
 FOR CITY ENGINEER
 PRINT DCE NAME: Andrea Demich DATE: 2/3/2021
 PROJECT: C70321

WBS B-16140

SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
 CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILED

260-1709
 CCS27 COORDINATE
 1900-6269
 CCS83 COORDINATE

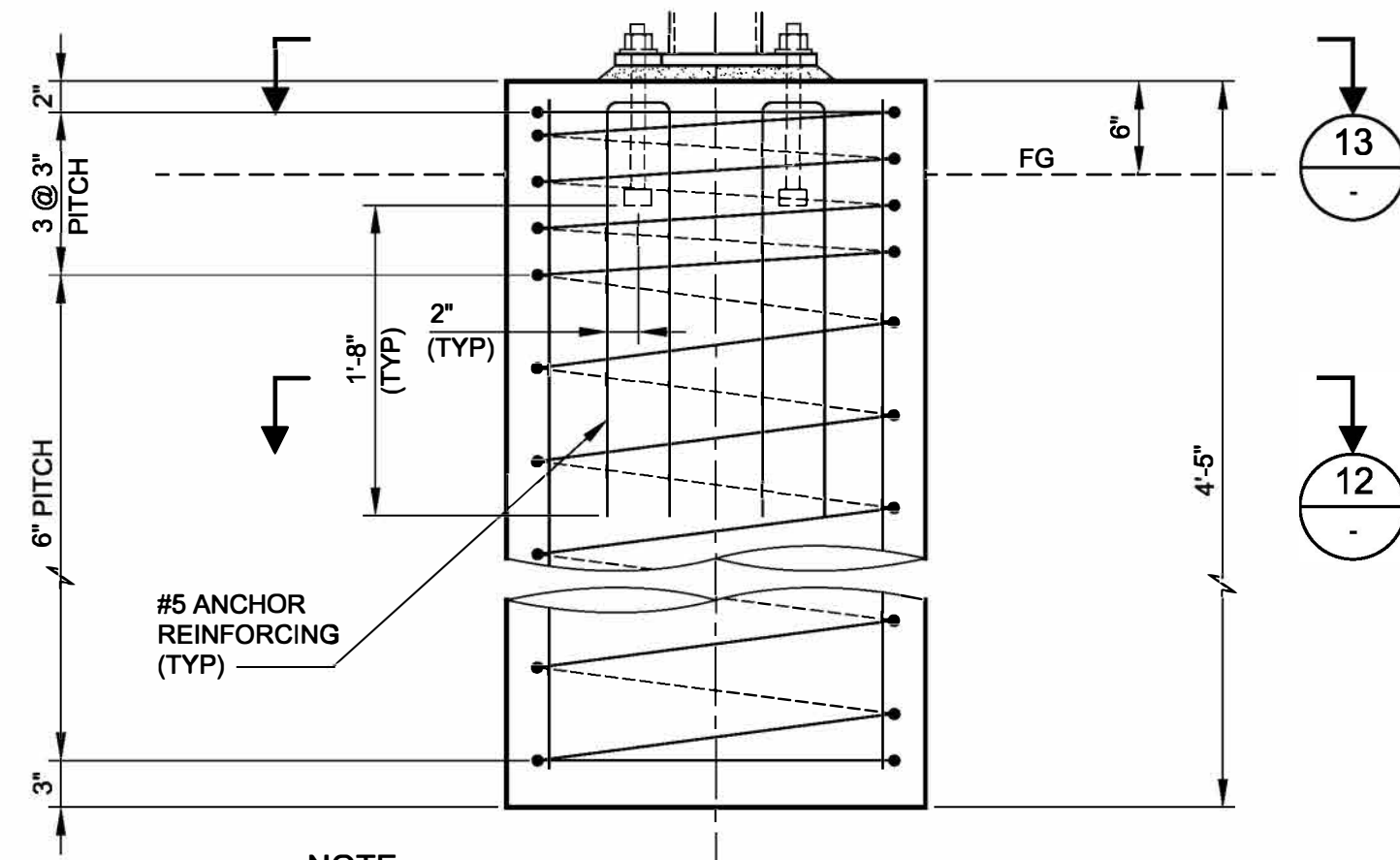
CONTRACTOR: _____ DATE STARTED: _____
 INSPECTOR: _____ DATE COMPLETED: _____

40425-10-D

NORTH CITY WATER RECLAMATION PLANT

YARD PIPING HORIZONTAL CONTROL

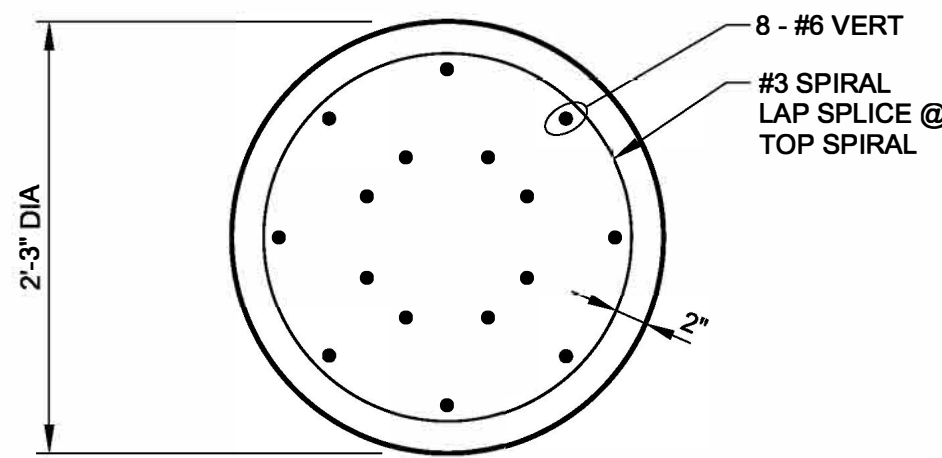
TAG	SIZE	DESC	INVERT	NORTHING	EASTING
EDR PRODUCT					
EDRP-03	20"	45 EL (ROLLED)	335	1900719.76	6270290.27
EDRP-04	36"	45 EL (ROLLED)	337.4	1900719.76	6270297.7
EDRP-05	20"	45 EL	337.4	1900731.55	6270309.50
EDRP-06	20"	45 EL	337.4	1900731.55	6270316.67
EDRP-07	20"	90 EL	337.4	1900724.38	6270323.84
EDRP-08	12"	TEE	337.9	1900731.63	6270333.18



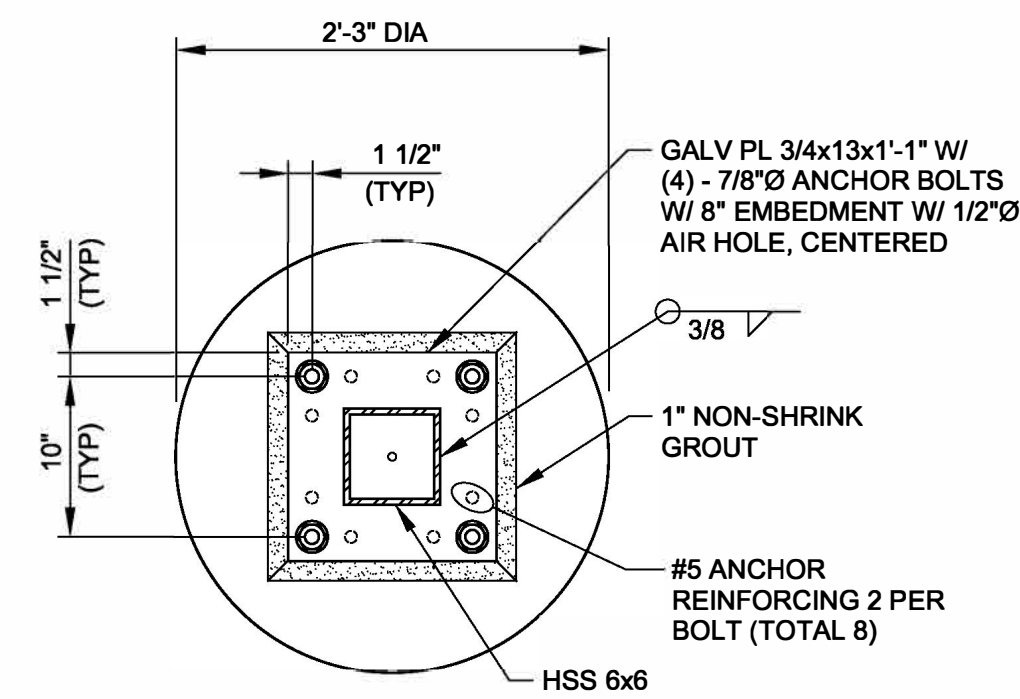
NOTE:

1. ALL STEEL SHALL BE HOT-DIP GALVANIZED.
2. MAXIMUM PIPE SUPPORT SPACING = 12'-0".

1 PIPE SUPPORT
C-001 SCALE: 1" = 1'-0"
FILE: 10641A10_S409



12 DETAIL
SCALE: 1" = 1'-0"
FILE: 10641A10_S409



13 DETAIL
SCALE: 1" = 1'-0"
FILE: 10641A10_S409

C-002

NCWRP EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE CONSTRUCTION PACKAGE
CIVIL
PIPE SUPPORT DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 11 OF 11 SHEETS

WBS B-16140

APPROVED: <i>Jeffrey A. Weiskopf</i>	DATE: 2/3/2021	SUBMITTED BY: <u>MONIKA SMOCZYNSKI</u>			
FOR CITY ENGINEER: <u>Jeffrey A. Weiskopf</u>	DATE: C70321	PROJECT MANAGER			
PRINT DCE NAME: <u>Jeffrey A. Weiskopf</u>	DATE: C70321	CHECKED BY: <u>THIEN-LONG TRAN</u>			
DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER
					<u>260-1709</u>
					<u>CCS27 COORDINATE</u>
					<u>1900-6269</u>
					<u>CCS83 COORDINATE</u>

40425-11-D

CONSULTANT

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

REGISTERED PROFESSIONAL ENGINEER
JEFFREY A. WEISKOPF
No. 75245
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED 1/29/2021

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

City of San Diego

CITY CONTACT: Stephen Samara, Principal Contract Specialist, Email: SSamara@sandiego.gov

Phone No. (619) 533-3619

ADDENDUM C



FOR

NORTH CITY WATER RECLAMATION PLANT EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE

BID NO.:	<u>K-21-1861-DBB-3</u>
SAP NO. (WBS/IO/CC):	<u>B-21060, B-16140, S-17012</u>
CLIENT DEPARTMENT:	<u>2012</u>
COUNCIL DISTRICT:	<u>1</u>
PROJECT TYPE:	<u>BO</u>

BID DUE DATE:

**2:00 PM
MARCH 12, 2021**

CITY OF SAN DIEGO'S ELECTRONIC BIDDING SITE, PLANETBIDS

<http://www.sandiego.gov/cip/bidopps/index.shtml>

ENGINEER OF WORK

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineers:

Mark Elliott
1) Registered Engineer

2/23/2021
Date



DIGITALLY SIGNED: 2/23/2021

Andrea Demich
2) For City Engineer

2/23/21
Date

Seal:



A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

B. BIDDER'S QUESTIONS

Q1. In regards to the specification K-21-1861-DBB-3 North City Water Reclamation Plant Expansion, Section 43 22 56.02 VERTICAL MIXERS we listed some questions in the attached document.

Section 43 22 56.02 – Page 3

1.03 – A – 1 SUBMITTALS

The Specification requests a CFD analysis does although not define the minimum required quality of such analysis. With currently available CFD computing free-ware it is important to define the minimum quality of a CFD Model. We have attached (Attachment A) a description that could be used a minimum requirement for the CFD model, can this added to your specification.

A1. Vertical Mixer CFD analysis is an action submittal requiring Design Engineer's approval per 01 33 00, Submittal Procedures. The analysis must be of sufficient quality for the Design Engineer to review and approve the results. Any analysis that is incomplete will be rejected.

Q2. Section 43 22 56.02 – Page 5

2.01 – D – Mixed Liquor Suspended Solids INVENT request the addition of the minimum Sludge Volume Index to this section, the MLSS description is complete if the SVI is added as well. We would request to add Minimum SVI: 80 ml/gram

A2. Adding service condition: "Minimum Sludge Volume Index: 80 mL/g." See Addendum C.

Q3. Section 43 22 56.02 – Page 6

2.04-A General The INVENT HYPERCLASSIC® -Mixer has a different design in regards to the shaft connection. The connection is made by means of a hollow shaft connection. This construction is easier for the operator and increases the alignment of the shaft. We request that a coupling by means of a hollow shaft connect can be accepted.

A3. Requirement for a flanged connection will be deleted. See Addendum C.

Q4. Section 43 22 56.02 – Page 7

2.04-D.1 Pedestal and Mixer mount

The provided drawing do not indicate an proposed height for the Pedestal, for example drawing 40381-2633-D do not indicate the pedestal height.

Please indicate provide the height of the required pedestal.

A4. Adding requirement to "Size pedestal as required to allow routine maintenance, including oil changes, to be completed in place." See Addendum C.

Q5. Section 43 22 56.02 – Page 7

2.04-C Motor and Drive Unit The INVENT HYPERCLASSIC®-Mixer will apply an SEW Eurodrive gearbox, for a 2 HP motor this unit is normally supplied as an integrated Motor gearbox. With an integrated SEW electrical motor. The electrical motor will be integrated with the gearbox, there will be no flange mount. It is though possible to remove the electrical motor from the gearbox. INVENT to request to be able to supply an complete SEW motor gearbox

A5. Integrated motor gearbox may be submitted for review during the submittal process. Requests for substitutions will be evaluated in accordance with SSP 4-6.

Q6. Section 43 22 56.02 – Page 7

2.04-E.4 Impeller Shaft and Low Speed Coupling The INVENT HYPERCLASSIC®-Mixer has a different design in regards to the shaft connection. The connection is made by means of an hollow shaft connection. This construction is easier for the operator and increases the alignment of the shaft. We request that a coupling by means of a hollow shaft connect can be accepted.

A6. Adding "or by a hollow shaft connection". See Addendum C.

Q7. Section 43 22 56.02 – Page 8

2.07-A. Factory Tests

A2 The INVENT HYPERCLASSIC®-Mixer use SEW-Eurodrive gearboxes that will undergo standard factory testing. Pressure gearbox test is not possible for the small gearboxes for this project..

Can INVENT eliminate the pressure test.

A4 The INVENT HYPERCLASSIC®-Mixer use SEW-Eurodrive gearboxes that will undergo standard factory testing. Gearteeth control will not be possible for these small gearboxes

Can INVENT eliminate the Gear teeth inspection.

INVENT will provide the following factory testing of the motor geardrive
The standard tests performed on our gear motors after assembly are as follows.

- 1) A visual inspection of the unit to confirm that it is per the order requirements
- 2) A one second high potential test of the motor windings/insulation per NEMA MG1 specifications. This is also a requirement of our UL certifications.
- 3) A no load run test of the unit to listen for any gear knocks or unusual noises. This is performed either fully or partially lubricated depending on the unit size.
- 4) Measurement of the output speed to verify the gear ratio is correct.

A7. Factory gear reducer pressure test and gear marking has been deleted. See Addendum C.

Q8. Section 43 22 56.02 – Page 9

3.02-A. Field Finishing

The INVENT HYPERCLASSIC®-Mixer use SEW-Eurodrive gearboxes that will receive a high quality factory coating. Our experience is that with small gearboxes like here (2 HP) an external sandblasting and coating increase the risk of damage to the electric motor. We request if the standard SEW increased protection factory coating can be applied.

Coating application indicated below.

SEW-Eurodrive Coating System:

Surface Preparation: Abrasive Blasting Surface Prep Degree Sa 2 1/2 to DIN ISO 12944-4

A8. Submit coatings for review during the submittal process, per Section 09 90 00, Painting and Coating.

Q9. Section 43 22 56.02 – Page 10

3.03-C.2 Mixing Test

C.2.c INVENT requests to add a minimum Sludge Volume Index for the test to operate at,

RAS might create very low SVI's that will create different sludge characteristics.

MLSS description is complete if the SVI is not added as well.

We would request to add Minimum SVI: 80 ml/gram

C.2.c The description mentions a test to be performed with a RAS flow in motion. This will

not be possible in case a mixing test is to be performed. The variation of the incoming

RAS will disturb the measured TSS samples. It will not be possible to determine

whether these variations are due to the Mixer or to the variation of the MLSS concentration due to the incoming RAS.

INVENT does request to perform the TSS testing without incoming flow.

A9. Sludge Volume Index added to Service Conditions paragraph. Requirement for forward flow during mixing test will be deleted. See Addendum C.

Q10. Specs for soil preparation at package 3. Milestone for Package 3 is before the Notice to Proceed July 2021. So soil preparation doesn't belong to landscape at Milestone Package 2 ?

A10. The soil preparation specification in package 3 is relevant to the work required for package 3.

Q11. Planting & irrigation in Bio-filtration modular wetland unit belongs to others , not Landscaping? From Civil Site Grading Plan- Details – sheet PK2-CG-515 – General Notes, manufacturer will provide all materials.

A11. This item is for the bioorientation basins as part of the storm water mitigation in the civil design.

- Q12. Error font on sheet PK2-L-601.
- A12. Text will be corrected as part of Addendum D.
- Q13. Please provide payment description for item Landscaping.
- A13. Please see Specification 01 29 00 Payment Procedures. Under Paragraph 1.11.B.27 Landscaping is covered. Landscaping requirements are captured in the drawings and specifications.
- Q14. Please provide specifications for these items at Biofiltration area: clean & washed ASTM C33 fine aggregate sand, clean & washed ASTM No. 8 stone, Aggregate storage layer per AASHTO no. 57.
- A14. The specification for the sand is ASTM C33
The specification for the stone is ASTM No. 8
The specification for the aggregate is AASHTO No. 57
These notes are part of the biofiltration details shown on PK2-CG-501 and PK3-CG-501.
- Q15. Please provide soil report for this project.
- A15. The geotechnical report is located in section 3-9 Technical Studies and Subsurface Data.
- Q16. Please provide detail & depth for Apache Brown Crushed 4" – 8" rock mulch A as shown on landscape plans.
- A16. See Detail B on L-503. One layer is required.
- Q17. Please provide detail & depth for Arizona Rock 4" – 8" – 24" Rock Band as shown on landscape plans.
- A17. See Detail B on L-503. One layer is required.
- Q18. SPEC 33 05 01.20.02 THE BURIED 96" MIXED LIQUOR PIPE IS SHOWN ON THE DWG'S AS "WS" & "FRP". CAN HDPE BE AN ALTERNATE FOR THE FRP ON THE SE "ML" PIPE LINE?
- A18. The allowable pipe materials are detailed in the plans and specifications. Bid the project according to the Bid Set and Addendums. An alternate pipe material could be evaluated after the contract is awarded through an RFI or substitution request. Requests for substitutions will be evaluated in accordance with SSP 4-6.

- Q19. DWG. 23-D-301 SHOWS THE 48" ML TO THE CENTER OF THE CLARIFIERS. SHOULD A VERTICAL 90 BEND AND SHORT SPOOL PIECE BE INCLUDED TO THE FLOOR OF THE CLARIFIERS?
- A19. Design intent was to grout to achieve the 90-degree bend. A substitution of a piped 90-degree and spool piece can be evaluated during the submittal process in accordance with SSP 4-6.
- Q20. DWG. 50-D-100 HAS A NOTE IN THE MIDDLE OF THE PAGE THAT INDICATES THE 10" PD FORCEMAIN IS CONTINUED ON DWG. Y-107, HOWEVER NO "PD" PIPE LINE IS SHOWN ON THAT PAGE. WE ARE UNABLE TO LOCATE THIS PIPE LINE. ADDENDA 1 SHOWS THIS LINE IN AREA 7 ON DWG. Y-100 & 120 BUT LACK DETAIL. WILL A REVISED Y-107 BE ISSUED?
- A20. 10" PD is shown on revised Y-107, issued as part of Addendum B.
- Q21. DWG Y-107 NOTE#1 INDICATES A CONNECTION TO AN EXISTING "PW" LINE WITH THE UTILITY TRENCH, HOWEVER NO DETAIL CAN BE FOUND ON FOR THIS CONNECTION. WHAT TYPE/SIZE PIPE ARE WE TO CONNECT TO? CAN A CUT-IN TEE BE USED OR WILL THIS NEED TO BE A WET TAP? WHAT TYPE OF WALL PENETRATION WILL BE REQUIRED?
- A21. Existing PW line in Utility Trench is 2" CU. Connection shall be made with a tee. The wall penetration shall be in accordance with Standard Detail (4027-620), SIM.
- Q22. I am reaching out to you in regards to 3/3@2PM/San Diego/North City Water Reclamation Plant Expansion and NCPWF Influent Pump Station and Pipeline k-21-1861-DBB-3/ Rectangular Sedimentation Basin, Secondary Clarifier BID, I have downloaded the posted specs but cannot locate Spec Section 40 90 00 which is needed for the controls on the rectangular collectors.
- Please let me know at your earliest if you have that section available.
- A22. Section 40 90 00 is in Volume 5 of the specifications.
- Q23. Starting on package 3- 36 – D-100; sheet 93 of 164 (40381-3093-D) there is a piping system labeled 'NI'.
- I have looked at the piping schedule and do not see this system listed. What is the material specifications for NI?
- A23. NI is defined in the pipe schedule as NCPWF Influent. See PK3-G-105.

- Q24. The only specification that references the aluminum checker plates is specification section 05 50 00, 2.01, B. It states "All aluminum products are to be anodized." What is the anodizing specification? Are all checker plates to anodized?
- A24. Aluminum Checkered plates do not require to be anodized.
- Q25. According to the drawing index (PKS-G-010), volume 11 area 30 contains an electrical drawing named PK2-30-E-113 Electrical Ground Level Plan Area C. Upon review drawing PK2-30-E-113 is missing from volume 11. The contractor requests drawing PK2-30-E-113 be issued via the next addendum.
- A25. See Addendum C.
- Q26. According to the conduit and raceway schedule on drawing PK2-E-740 a large quantity of conduits from area 25 Tertiary Filters (PK2-25-E-101, PK2-25-E-102), are to be routed to control module 20PCM03. Control Module 20PCM03 cannot be found on the drawings. Please clarify the location of 20PCM03.
- A26. Located in PCM room with 20PMC01/02. Callouts added to fac 20 plan drawing as part of Addendum C.
- Q27. The following circuit ID's are missing from the following circuit and raceway schedules.
- a. Circuit ID's 16/1058-16/1081, referenced on drawings PK2-16-E-111, PK2-16-E-112, PK2-16-E-113, PK2-16-E-114, PK2-16-E-115, are missing from circuit schedule PK2-E-723
 - b. Circuit ID 16/1606, referenced on drawing PK2-20-E-401, is missing from circuit schedule PK2-E-734
 - c. Circuit ID's 25/1033-25/1249, referenced on drawings PK2-25-E-401, PK2-25-E-101 and PK2-25-E-102, are missing from circuit schedule PK2-E-741. The contractor is requesting updated conduit schedule containing the above referenced missing conduit ID's.
- A27. a) See Addendum C.
b) See Addendum C.
c) See Addendum C.

- Q28. Drawing PK2-ES-101 note number 10 states to provide wiring from existing guard shack location to new location by splicing onto existing cabling in the handhole shown but there is no conduit or wire information for ductbank 124 on the ductbank schedule. The contractor will need information on what circuits will be extended from existing guard shack, both power and communications. Please provide missing ductbank 124 information.
- A28. Record drawings for the guard shack circuits are not available, these will need to be field verified. DB124 added in this Addendum C.
- Q29. Circuit ID 34/1059 is shown on drawing PK2-34-100 but is missing from the Electrical Circuit and Raceway Schedules PK2-E-744. Please provide the missing information for this circuit referenced above.
- A29. See changes in this Addendum C.
- Q30. Drawing PK2-61-EX-620, note 1 calls for "demolition of existing substation power monitoring network including all field cabling." None of the drawings issued showing size or routing information of existing cable. Please provide drawings showing existing cabling/conduit routing with size information so the contractor can quantify this part of the demolition scope.
- A30. Best information is the City record drawings, but accuracy has not been verified. An estimate with a contingency will need to be provided, assume each USS is connected to each other for field cabling.
- Q31. Drawing PK2-ES-106, note number 8 references Detail 2605-011A but this detail is missing from the standard details issued in Volume 14 Standard Details. Please provide standard detail 2605-011A.
- A31. Change to detail 2605-005A shown on sheet PK2-SD-038. See update in Addendum C.
- Q32. Circuit 58/1051A ,55/900, 55/302, 55/303, 55/236, 55/237, 55/233, 55/527, 55/528, 55/875, 55/522 are all called out on drawing PK2-55-E-100 but these circuit tags are not shown in the circuit and raceway schedule. Please provide an updated circuit and raceway schedule.
- A32. See Addendum C.

- Q33. The Electrical & Process Demolition drawings call for removal of conduit and wire to equipment being demolished, however no marked up plan drawings have been provided to quantify the amount of conduit and wiring to be removed. Please provide drawings showing existing cable and conduit to be demolished so the contractor can correctly quantify materials to be demolished.
- A33. See the NCWRP record drawings provided as part of the bid documents.
- Q34. Drawing PK2-ES-106 Note 9 and 11 require the contractor to route conduits into the Operations building. Please provide existing drawings of the operations building electrical room and panel schedules for panels 51LP6 and 51LP7.
- A34. See NCWRP record drawings that were provided as part of the bid documents for building layouts for facility 51 and panel schedules.
- Q35. On the conduit and raceway schedule PK2-E-734 conduits are said to be routed via existing cable tray 20TR01P, 20TR02P, 20TR01C and 20TR02C, and 20TR03C however, on drawings PK2-25-E-101 and PK2-E-25-102 these cable trays are not labeled clearly to show how the cables are being routed from area 25 into area 20. Please provide routing information for existing cable tray.
- A35. See NCWRP record drawings provided as part of the bid documents for cable tray through the galleries.
- Q36. Section 44 42 24.02 – Rectangular Sedimentation Basin Mechanism 2.03.E.1 – *Stub shafts are shown on the process drawings for the primary sedimentation tanks. Please confirm that solid full-length shafting is required in all positions.*
- A36. Full length shafting is required at the head shaft. Language is added to the specification that stub shafts are acceptable for idler shafts. See Addendum C.
- Q37. Section 44 42 24.02 – Rectangular Sedimentation Basin Mechanism 2.10.A – The live stainless steel head shafts will require wall bearings. Evoqua's design is a cast steel split housing, with a polyurethane, self-aligning bearing that is water lubricated and has provisions for greasing when unsubmerged. Please confirm that this design is acceptable.
- A37. Substitutions cannot be confirmed and will be evaluated during the submittal process.

- Q38. Section 44 42 24.02 – Rectangular Sedimentation Basin Mechanism 2.14.A.2&3 – Solid shafting does not require items 2 & 3. Please remove these items from the specification.
- A38. Specification language will not be changed.
- Q39. Section 44 42 24.02 – Rectangular Sedimentation Basin Mechanism 2.15.A – Jaw clutches tend to rust and lock together. Please remove jaw clutches from this section.
- A39. Jaw clutch was not specified on the 6 existing clarifiers, therefore it will be removed for the clarifiers. See Addendum C.
- Q40. Section 44 42 24.02 – Rectangular Sedimentation Basin Mechanism 2.15.B.5 – ISO 6336 / DIN 3990 standards are comparable to AGMA 6113-B16. Please add “or DIN/ISO” to this section.
- A40. Specification language will not be changed. Manufacturer can provide clarification of equivalent standard during the submittal process as a substitution request and will be evaluated at that time per the requirements of the contract documents in accordance with SSP 4-6.
- Q41. Section 44 42 24.02 – Rectangular Sedimentation Basin Mechanism 2.17.B – Evoqua recommends that the rotating pipe be constructed out of 316 stainless steel to be consistent with the collector components. Please change the pipe material to 316 stainless steel.
- A41. It is steel with an epoxy coating to match existing clarifiers.
- Q42. Section 44 42 24.02 – Rectangular Sedimentation Basin Mechanism 2.18.D.2.a.1.e&f – Flight monitoring is not mentioned anywhere else in the equipment specification. Is the intent to provide a flight monitoring system as part of the equipment scope?
- A42. See Addendum C.
- Q43. Section 44 42 24.02 – Rectangular Sedimentation Basin Mechanism 2.18.D.2.a.1 – If flight monitoring is required, the system will require timing setpoints to be entered into the PLC via an HMI. Evoqua recommends the supply of a Logo PLC in lieu of the required Compact Logix PLC so that the timer setpoints can be changed from the PLC itself instead of a separate HMI. Please confirm that a Logo PLC will be acceptable.
- A43. A Logo PLC will not be acceptable. The only PLC acceptable to the City of San Diego is Rockwell Automation.

- Q44. Section 44 42 24.02 – Rectangular Sedimentation Basin Mechanism 2.23.B.2 – Evoqua highly recommends that this section include a requirement for 100% proof load testing at 4,000 lbf to minimize chain pre-stress and assure that all strands have been tested.
- A44. Specification language will not be changed.
- Q45. Section 44 42 24.02 – Rectangular Sedimentation Basin Mechanism 3.05.A.1 – Please clarify that the service days specified are for each longitudinal mechanism.
- A45. Service time specified is overall. However, we will change it from 3 days to 6 days. See Addendum C.
- Q46. Section 44 42 24.03 – Secondary Clarifier Mechanism (Suction Header/Manifold Type) 2.03.B.1 – The required floor slope is specified as “0.0067 percent” which is equal to 0.0008 inches for every 12 inches. Evoqua believes that this is a typo and recommends a floor slope of 1/16 inches for every 12 inches (0.52%). Please change the floor slope to 1/16:12.
- A46. Design intent is for a 6" drop along a 75' radius equal to 0.0067 or 0.667%. Will remove the word percent from specification section referenced. See Addendum C.
- Q47. Section 44 42 24.03 – Secondary Clarifier Mechanism (Suction Header/Manifold Type) 2.03.D.6 – Please confirm that a rotational speed of 0.02 rpm is acceptable.
- A47. Proposed rotational speed exceeds typical best practices (6-8 ft/minute). Substitution can not be confirmed as acceptable. Provide details for evaluation as part of the submittal process in accordance with SSP 4.1-6.
- Q48. Section 44 42 24.03 – Secondary Clarifier Mechanism (Suction Header/Manifold Type) 2.05.B – Please confirm that Evoqua’s FEDWA baffle system is an acceptable EDI design.
- A48. Substitution can not be confirmed as acceptable. Provide details of FEDWA baffle system for evaluation as part of the submittal process. Substitutions will be evaluated at that time per the conditions of the contract documents.

- Q49. Section 44 42 24.03 – Secondary Clarifier Mechanism (Suction Header/Manifold Type) 2.09.D – Please clarify if this section is describing the surface of the bridge structure or walkway grating.
- A49. Section 2.09.D is in reference to the walkway surface. Material was made as aluminum in the specification.
- Q50. Section 44 42 24.03 – Secondary Clarifier Mechanism (Suction Header/Manifold Type) 2.09.E.1 – 36" is the industry standard for the width of clarifier walkways. Please change the minimum clearance to 36".
- A50. Bridge walkway and center drive access to remain at 42".
- Q51. Section 44 42 24.03 – Secondary Clarifier Mechanism (Suction Header/Manifold Type) 2.09.E.2 – The 42" minimum clearance specified in this section conflicts with the 32" requirement mentioned in the drive section. Please clarify the required clearance around the drive unit.
- A51. Bridge walkway and center drive access to remain at 42".
- Q52. Section 44 42 24.03 – Secondary Clarifier Mechanism (Suction Header/Manifold Type) 2.09.F – In a pony truss bridge design, members located at a 21" and 42" height will typically act as handrailing. Please allow for pony truss members located at these heights to act as handrailing.
- A52. Substitution is not acceptable, as a removable section was required to safely access the launder due to the clarifiers being covered.
- Q53. Section 44 42 24.03 – Secondary Clarifier Mechanism (Suction Header/Manifold Type) 2.09.F.4 – The removable railing section specified cannot be provided on a pony truss style bridge. Removing a section from a pony truss design will compromise the structural integrity. Please remove this requirement from the specification.
- A53. Substitution is not acceptable, as a removable section was required to safely access the launder due to the clarifiers being covered.
- Q54. Section 44 42 24.03 – Secondary Clarifier Mechanism (Suction Header/Manifold Type) 2.10.A – This section specifies a minimum 9' square center cage. A minimum 6' square center cage is large enough to fit around the 60" diameter center pier and can be designed for the

required torque loads. Please change the specified center cage size to a minimum 6'.

- A54. Specification updated to "All-welded steel, ASTM A36/A36M, box truss design, minimum 6 feet square and components minimum 1/4-inch-thick." See Addendum C.
- Q55. Section 44 42 24.03 – Secondary Clarifier Mechanism (Suction Header/Manifold Type) 2.12.C.6.c – To achieve a maximum head loss of 12" within the header, given the specified RAS flow rates and the dual header design, a minimum orifice diameter of 2" is required. Please change the minimum orifice diameter from 2.5" to 2".
- A55. Substitution can not be confirmed as acceptable. Provide headloss calculations and confirm the 2" orifice is an acceptable solution and not prone to plugging. Substitutions will be evaluated after bidding in accordance with SSP 4-6.
- Q56. Section 44 42 24.03 – Secondary Clarifier Mechanism (Suction Header/Manifold Type) 2.18.C – The handrailing is specified as aluminum in the bridge section. Please clarify that the handrailing is to be aluminum.
- A56. Confirming that aluminum handrail is acceptable in accordance with Section 2.16, dissimilar metals.
- Q57. Section 44 42 24.03 – Secondary Clarifier Mechanism (Suction Header/Manifold Type) 3.05.A – Please clarify that the days specified are for each clarifier mechanism
- A57. Specification is in reference to total days, and days amount in 3.05.A.1.a and 3.05.A.1.b were updated (see Addendum C) to:
- a. 5 person-days for installation assistance and inspection.
 - b. 4 person-day for functional and performance testing and completion of Manufacturer's Certificate of Proper Installation.
- Q58. Section 44 42 19.03

Page 5 Item 1.05.A In this section it is stated that blowers and control will be installed in an indoor, dry, moderately dusty, noncorrosive, nonhazardous building. However in Section 40 90 00 page 14 section 1.10.B calls for an environment rated (G2)(G3)GX). Please confirm that the

LCP's enclosures to be furnished by the blower manufacturer can be NEMA 12 (12 gauge mild steel).

- A58. The Blower LCP enclosure shall be NEMA 12 per paragraph 2.20.F. Specification Section 40 90 00 still applies to the blower system.
- Q59. Page 35 Item 2.28 D. Please confirm that the Inlet silencer Assembly for Aeration Blower 1 shall be furnished by contractor and not by blower manufacturer.
- A59. The contractor may elect to assign the blower manufacturer as the provider of the inlet silencer, however, the blower manufacturer will need to prove their product is an equal to the listed product in the specification. It is possible the blower manufacturer's proposed product would be rejected and require procurement from the listed vendor. If an "or equal" is proposed, additional information not listed in the submittal section may be required and requested by the submittal reviewer to demonstrate equal suitability. The silencer will require field coordination in its design, fabrication, and installation, which was the original intent in assigning this to the Contractor.
- Q60. Page 35 Item 2.28.E . Please confirm that the Inlet filter Assembly for Aeration Blower 1 shall be furnished by contractor and not by blower manufacturer.
- A60. The contractor may elect to assign the blower manufacturer as the provider of the inlet filter. The blower manufacturer will need to provide a filter meeting the requirements of the specification. The filter will require field coordination in its design, fabrication, and installation, which was the original intent in assigning this to the Contractor.
- Q61. Specification section 44 42 24.22 Rectangular Sedimentation Basin Mechanism: 2.03.E.1 – Do you want stainless steel shaft for both the head shaft and idler shafts? Or can we provide Cast Nylon Stub Shafts for the Idler Shafts?
- A61. Idler shafts are acceptable. See changes in this Addendum C.
- Q62. Specification section 44 42 24.22 Rectangular Sedimentation Basin Mechanism: 2.07.F – Is the bracket assembly you are referring to the stub shaft?
- A62. Yes.

Q63. Specification section 44 42 24.22 Rectangular Sedimentation Basin Mechanism:

2.11.D – Are you referring to the anchor bolts for the wall brackets?

A63. Yes.

Q64. Specification section 44 42 24.22 Rectangular Sedimentation Basin Mechanism: 2.18.D.2.a – you are asking for an alarm for flight motion and flight misalignment, but there is no mention of a flight monitoring system in the spec. Do you require flight monitoring?

A64. Yes. See changes in this Addendum C.

Q65. Due to the order of magnitude of this project and the holidays between advertisement and bid date, we respectfully request that the bid date be extended a minimum of four weeks. A bid extension would allow sufficient time for Prime Contractors and subcontractors, including MBE and WBE firms, to provide complete and competitive estimates.

A65. The bid due date has been extended to March 12, 2021.

Q66. There are four very large complex projects that are bidding in the next six weeks:

- 1) Orange County Sanitation District Headworks Rehabilitation at Plant 1 (P1-105) with an Engineer's Estimate (EE) of \$292,299,000, which bids on 1/12/21, 2) Morena Pump Station with an EE of \$110,000,000, which bids on 1/13/21, 3) North City Pure Water Pipeline with an EE of \$138,010,000, which bids on 1/20/21, and 4) NCWRP Expansion & NCPWF Influent PS & Pipeline with an EE of \$208,660,000, which bids on 2/10/21. As the same prime Contractors, Subcontractors and Suppliers will be bidding on all these projects, we request a 4-week bid extension to the NCWRP Expansion & NCPWF Influent PS & Pipeline Project. This project as a stand-alone will take approximately 8 weeks to put together a bid for, so unless a bid extension is provided in the near future it will limit the amount of Prime and Subcontractor bids, which will result in less competition and most likely a higher bid to the City.

A66. The bid due date has been extended to March 12, 2021.

Q67. There are currently several other large water resources projects that are out to bid including the City's Morena Pump Station that bids on January 13, 2021, and the OCSD Headworks Replacement project that bids January 12, 2021. As such, many of the competitive bidders that would otherwise bid this project have already committed their resources to those other projects that came out to bid earlier. In addition, due to Covid-19 and the current state of the Stay at Home Orders in Southern California, many of the bidders' resources have been further limited recently. Due to the circumstances described above, we request that the City extend this bidding period by a minimum of 6 to 8 weeks to allow for a thorough preparation of the bid and allow more bidders to pursue this project.

A67. The bid due date has been extended to March 12, 2021

Q68. Please extend the bid due date 1 month due to holidays and Covid-19.

A68. The bid due date has been extended to March 12, 2021.

Q69. Will there be a Geotechnical Report provided?

A69. The geotechnical report is located in section 3-9 Technical Studies and Subsurface Data.

Q70. Currently the Debarment and Suspension Certification (Subcontractors/Suppliers/Manufacturers) Form is due at the time of Bid. Collecting this information for all Subcontractors, Suppliers and Manufacturers and submitting at time of bid for a project of this size and complexity will put an onerous burden on the Contractors during the closing of this bid. It is common on projects of this size and nature for Contractors to receive quotes from numerous major equipment suppliers and subcontractors up until a few minutes prior to the bid closing time. Having to submit these forms will sincerely restrict all Contractors' ability to efficiently close this bid.

In addition, CA Public Contract Code 4104 states that "any information requested by the officer, department, board, or commission concerning any subcontractor who the prime contractor is required to list under this subdivision, other than the subcontractor's name, location of business, the California contractor license number, and the public works contractor

registration number, may be submitted by the prime contractor up to 24 hours after the deadline established by the officer, department, board, or commission for receipt of bids by prime contractors."

As a result we kindly request that the Debarment and Suspension Certification (Subcontractors/Suppliers/Manufacturers) Forms be due at least 24 hours after the bid submission deadline.

- A70. You correctly quote 4104 Paragraph 3(A). Paragraph 3 (B) states: "A state or local agency may implement subparagraph (A) at its option." Submit the Debarment and Suspension Certification forms at time of bid as stipulated in the solicitation.
- Q71. On page 18 of the specifications, Section 12.2 of the Instructions to Bidders, it states that "Any Bidder seeking the recognition of Suppliers of equipment, materials, or supplies obtained from third party Suppliers towards achieving any mandatory or voluntary (or both) subcontracting participation goals shall provide, at a minimum, the name, location (city), DIR registration number and the dollar value of each supplier." Please confirm that this can be fulfilled by filling out the 4500-4: DBE Subcontractor Utilization Form that is due at time of bid and that this information is not needed to be input in any other areas of the bid documents.
- A71. That is not accurate. Bidder's seeking the recognition of Suppliers for purposes of achieving subcontracting participation goals shall list those suppliers within the *Subcontractors* tab in PlanetBids and identify the firm as a "Supplier" in the *Description* field.
- Q72. Please confirm that "Debarment and Suspension Certification for Subcontractors, Suppliers & Manufacturers" that is currently due at time of bid is only required for Subcontractors, Suppliers & Manufacturers that are listed in the Contractor's "List of Subcontractors" on planetbids.
- A72. No, this is for all Subcontractors, Suppliers & Manufacturers that are known to you at the time of bid, whether they are listed or not.
- Q73. According to the Notice Inviting Bids Section 12.7 b. Due to circumstances related to Covid-19, until further notice, all submittals in searchable PDF shall be submitted electronically within the prescribed time identified in

the contract documents via link provided by the Contract Specialist to all bidders. Please confirm that this section applies to the submittal of the Good Faith Effort Documentation.

- A73. Correct, this section 12.7 b applies to the submittal of the GFE Documentation.
- Q74. Section 01 12 01 Partnering states that the selection and payment of partnering facilitator will be as indicated in Supplemental Special Provision 2-13. Please provide the referenced Special Provision or please confirm that the contractor does not have to pay for a partnering facilitator?
- A74. Selection of a partnering facilitator and payments will be per the 2018 WB 3-14.1.
- Q75. Part 1.06B of section 01 31 13 Project coordination states you can not begin construction of the Second Stage Bioreactor Basins until the Morena Pump Station and Conveyance project completes the tunnel shaft. Please provide the completion date for this work.
- A75. Item 1.06.B Work Sequencing/ Constraints in Specification Section 01 31 13, delete in its entirety and substitute with the following: Second Stage Bioreactor Basin Construction: Coordination with the Construction Manager is required prior to the start of construction of the second stage bioreactor basins to establish available working area, obtain approval of proposed shoring system, and coordinate efforts with the Morena Pump Station and Conveyance Project Contractor to avoid conflicts and interferences between the two projects.

C. SUPPLEMENTARY SPECIAL PROVISIONS

1. To Attachment E, Section 4 – Control of Materials, Item 4-6, Trade Names, Page 138, **DELETE** in its entirety and **SUBSTITUTE** with the following:

4-6 TRADE NAMES. To the "WHITEBOOK", ADD the following:

11. You shall submit your list of proposed substitutions for an "equal" item no later than **15 Working Days after the determination of the Apparent Low Bidder** and on the City's Product Submittal Form available at:

<https://www.sandiego.gov/ecp/edocref/>

2. To Technicals (Package 2), Section 01 29 00 Payment Procedures, item 1.11 Bid Items, Sub-Item B, numeral 18, Page 217, **DELETE** in its entirety.
3. To Technicals (Package 2), Section 01 45 33 Special Inspection, Observation, and Testing, Item 3.03 Supplements, page 346, **DELETE** 56-Urea Facility from the Contractor’s Statement of Responsibility.
4. To Technicals (Package 2), Section 01 91 14 Testing, Integration, and Startup, Item 1.09 The Startup and Test Plans, Sub-Item E, sub-item 1, sub-section a, Main Unit Processes, numeral 15, “56—Urea Facility: New Structure”, page 487, **DELETE** in its entirety.
5. To Technicals (Package 2), Section 05 50 00 Metal Fabrication, Part 2 Products, Item 2.01 General, Sub-Item B, Page 781, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - B. All aluminum products except aluminum checkered plates are to be anodized.
6. To Technicals (Package 2), Section 40 90 06 DCS Bill of Materials and Quantities, Table A-11, Item Uninterruptible Power Supply, Manufacturer, Page 2225, **DELETE** “APC” and **SUBSTITUTE** with “Liebert”.
7. To Technicals (Package 2), Section 40 90 06 DCS Bill of Materials and Quantities, Table A-12, Item Uninterruptible Power Supply, Manufacturer, Page 2226, **DELETE** “APC” and **SUBSTITUTE** with “Liebert”.
8. To Technicals (Package 2), Section 40 90 06 DCS Bill of Materials and Quantities, Table A-13, Item Uninterruptible Power Supply, Manufacturer, Page 2227, **DELETE** “APC” and **SUBSTITUTE** with “Liebert”.
9. To Technicals (Package 2), Section 40 94 24 Process Inputs/Outputs (I/O), Part 3 Execution, Item 3.02 Supplements, Location 1.3.6.12, Page 2359, **DELETE** in its entirety and **SUBSTITUTE** with the following:

DROP11	55PCM03	1C31232G01	N55LSH502	PHOSPHORIC ACID CONTAINMENT SUMP	HIGH	NORMAL	DI	1.3.6.12
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10. To Technicals (Package 2), Section 40 95 33 Distributed Control System Network, Item 3.01 DCSLAN, Sub-Item F, numeral 1 Page 2467, **DELETE** in its entirety.
11. To Technicals (Package 2), Section 40 95 33 Distributed Control System Network, Item 3.01 DCSLAN, Sub-Item F, numeral 2, Page 2467, **DELETE** in its entirety.

12. To Technicals (Package 2), Section 43 22 56.02 Vertical Mixers, Part 2 Products, Item 2.01 Service Conditions, Page 4089, **ADD** the following after Sub-Item D:
 - E. Minimum Sludge Volume Index: 80 mL/g.
13. To Technicals (Package 2), Section 43 22 56.02 Vertical Mixers, Part 2 Products, Item 2.02 General, Page 4089, **ADD** the following after Sub-Item C:
 - D. Coordinate mixers with diffuser system provided under Section 44 45 16.01, Coarse Bubble Diffuser System.
14. To Technicals (Package 2), Section 43 22 56.02 Vertical Mixers, Part 2 Products, Item 2.04 Equipment Description, Sub-Item A, Page 4090, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - A. General: The mixer shall be a nonragging, vertical shaft, turbine or hyperboloid-body type. The gear box output shaft shall be separate from the impeller shaft.
15. To Technicals (Package 2), Section 43 22 56.02 Vertical Mixers, Part 2 Products, Item 2.04 Equipment Description, Sub-Item D, Page 4091, **ADD** the following after numeral 2:
 3. Size pedestal as required to allow routine maintenance, including oil changes, to be completed in place.
16. To Technicals (Package 2), Section 43 22 56.02 Vertical Mixers, Part 2 Products, Item 2.04 Equipment Description, Sub-Item E, numeral 4, Page 4091, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 4. Connect the impeller mixer shaft to the upper, o drive output shaft, by means of a rigid flanged coupling, of either the welded or interference fit hub type, or by a hollow shaft connection located above tank top surface. Rigid flanged coupling face shall have a babbited male and female piloted connection for accurate concentricity and shall not require match marks for alignment. Coupling shall be constructed of Type 316 stainless steel.

17. To Technicals (Package 2), Section 43 22 56.02 Vertical Mixers, Part 2 Products, Item 2.07 Source Quality Control, Sub-Item A, numeral 2, Page 4092, **DELETE** in its entirety.
18. To Technicals (Package 2), Section 43 22 56.02 Vertical Mixers, Part 2 Products, Item 2.07 Source Quality Control, Sub-Item A, numeral 4, Page 4092, **DELETE** in its entirety.
19. To Technicals (Package 2), Section 43 22 56.02 Vertical Mixers, Part 3 Execution, Item 3.03 Field Quality Control, Sub-Item C, numeral 2, letter c, Page 4094, **DELETE** in its entirety.
20. To Technicals (Package 2), Section 44 42 24.02 Rectangular Sedimentation Basin Mechanism, Part 2 Products, Item 2.03 Longitudinal Collectors, Sub-Item B, Page 4244, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - B. Four-shaft longitudinal sludge/scum collectors in each basin.
21. To Technicals (Package 2), Section 44 42 24.02 Rectangular Sedimentation Basin Mechanism, Part 2 Products, Item 2.03 Longitudinal Collectors, Sub-Item E, numeral 1, Page 4244, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 1. Stainless steel cross shafts completely spanning clarifier basin. Stub shafts of cast Nylon-6 are acceptable for idler shafts.
22. To Technicals (Package 2), Section 44 42 24.02 Rectangular Sedimentation Basin Mechanism, Part 2 Products, Item 2.15 Drive Units, Sub-Item A, Page 4249, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - A. Electric motor, torque limiter, torque indicator, reducers, shear pin sprockets, drive base, drive chains, sprockets, and chain guards.
23. To Technicals (Package 2), Section 44 42 24.02 Rectangular Sedimentation Basin Mechanism, Part 2 Products, Page 4254, **ADD** the following after Item 2.23 Source Quality Control.

2.24 TRAVEL ALIGNMENT MONITORING SYSTEM

 - A. Each sludge collector shall be equipped with a travel alignment monitoring system which detects uneven chain and flight misalignment and chain motion.

- B. Each flight shall be individually monitored by two fixed sensors.
 - C. Sensors shall be completely sealed proximity detectors with no mechanical moving parts.
 - D. Sensors shall be explosion proof and watertight, designed for submerged service.
 - E. The system shall include all necessary electrical equipment for the detection and indication of loss of motion and flight misalignment.
24. To Technicals (Package 2), Section 44 42 24.02 Rectangular Sedimentation Basin Mechanism, Part 3 Execution, Item 3.05 Manufacturer's Services, Sub-Item A, numeral 1, letter a, Page 4256, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- a. 6 person days for installation assistance, inspection, and certification of installation.
25. To Technicals (Package 2), Section 44 42 24.03 Secondary Clarifier Mechanism (Suction Header/Manifold Type) Mechanism, Part 2 Products, Item 2.03 Manufactured Units, Sub-Item B, numeral 1, Page 4264, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- 1. Suitable for installation in 150-foot diameter by 18-foot diameter sidewall water depth (SWD) clarifier having floor slope 0.0067 as shown on Drawings.
26. To Technicals (Package 2), Section 44 42 24.03 Secondary Clarifier Mechanism (Suction Header/Manifold Type) Mechanism, Part 2 Products, Item 2.08 Center Drive Unit Assembly, Sub-Item H, numeral 6, Page 4271, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- 6. Platform 42-inch minimum clear walking and working surface outside drive unit components mounted at platform.
27. To Technicals (Package 2), Section 44 42 24.03 Secondary Clarifier Mechanism (Suction Header/Manifold Type) Mechanism, Part 2 Products, Item 2.09 Access Walkway, Sub-Item D, numeral 1, Page 4272, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- 1. Material: Aluminum as specified in Section 05 50 00, Metal Fabrications, as specified in Section 05 53 00, Metal Gratings.

28. To Technicals (Package 2), Section 44 42 24.03 Secondary Clarifier Mechanism (Suction Header/Manifold Type) Mechanism, Part 2 Products, Item 2.10 Center Torque Cage, Sub-Item A, Page 4273, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- A. All-welded steel, ASTM A36/A36M, box truss design, minimum 6 feet square and components minimum 1/4-inch thick.
29. To Technicals (Package 2), Section 44 42 24.03 Secondary Clarifier Mechanism (Suction Header/Manifold Type) Mechanism, Part 3 Execution, Item 3.05 Manufacturer's Services, Sub-Item A, numeral 1, letter a, Page 4282, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- a. 5 person-days for installation assistance and inspection.
30. To Technicals (Package 2), Section 44 42 24.03 Secondary Clarifier Mechanism (Suction Header/Manifold Type) Mechanism, Part 3 Execution, Item 3.05 Manufacturer's Services, Sub-Item A, numeral 1, letter b, Page 4282, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- b. 4 person-day for function and performance testing and completion of Manufacturer's Certificate of Proper Installation.
31. To Technicals (Package 2), Section 44 42 25.01 Prefabricated Aluminum Covers, Part 2 Products, Item 2.05 Accessories, Page 4290, **ADD** the following after Sub-Item A:
- B. Door shall be minimum width of clarifier bridge walkway.
32. To Technicals (Package 3), Section 44 42 56.03 Vertical Turbine Pumps, Part 1 General, Item 1.04 Extra Materials, Sub-Item A, numeral 8, Page 5988, **DELETE** in its entirety.
33. To Technicals (Package 3), Section 44 42 56.03 Vertical Turbine Pumps, Part 2 Products, Item 2.01 General, Sub-Item D, Page 5989, **DELETE** in its entirety.
34. To Technicals (Package 3), Section 44 42 56.03 Vertical Turbine Pumps, Part 3 Execution, Item 3.05 Supplement, Sub-Item A, numeral 1, "VERTICAL TURBINE PUMP DATA SHEET", Sub-Item "Design and Materials", Sub-Item "Bowl Bearings", Page 5998, **DELETE** in its entirety and **SUBSTITUTE** with:

Product lubricated fluted rubber, neoprene with Type 316 stainless steel or bronze ASTM B584 C90500 backing.

D. ADDITIONAL CHANGES

1. The following are additional changes to the Line Items in the PlanetBids Tab:

For clarity where applicable, **ADDITIONS**, if any, have been **Underlined** and **DELETIONS**, if any, have been **Stricken out**.

Section	Item Code	Description	UoM	Quantity	Payment Reference
Main Bid (Package 2)	237110	UREA CHEMICAL FACILITY 56	LS	1	Section 01 29-00

E. PLANS

1. The following Drawing Sheets for PACKAGE 2 Plans have been modified as shown below. See pages 29 through 73 of this Addendum.

- a) **DELETE** in its entirety and **REPLACE**:

- 40381-2005B-D, No. PK2-G-005B (Previous edits in Addendum A and B)
- 40381-2059-D, No. PK2-CX-102 (Previous edits in Addendum A and B)
- 40381-2061-D, No. PK2-CX-106 (Previous edits in Addendum A and B)
- 40381-2069-D, No. PK2-CX-116 (Previous edits in Addendum B and C)
- 40381-2072-D, No. PK2-CG-101 (Previous edits in Addendum B and C)
- 40381-2073-D, No. PK2-CG-102 (Previous edits in Addendum B and C)
- 40381-2076-D, No. PK2-CG-107
- 40381-2079-D, No. PK2-CG-112 (Previous edits in Addendum B and C)
- 40381-2082-D, No. PK2-CG-115
- 40381-2083-D, No. PK2-CG-116
- 40381-2087-D, No. PK2-CG-503
- 40381-2103-D, No. PK2-SW-101 (Previous edits in Addendum B and C)
- 40381-2108-D, No. PK2-SW-106 (Previous edits in Addendum A and C)
- 40381-2109-D, No. PK2-SW-107
- 40381-2110-D, No. PK2-SW-108
- 40381-2114-D, No. PK2-SW-112
- 40381-2159-D, No. PK2-Y-107 (Previous edits in Addendum B and C)

40381-2173-D, No. PK2-Y-137 (Previous edits in Addendum A and B)
40381-2214-D, No. PK2-ES-105
40381-2215-D, No. PK2-ES-106 (Previous edits in Addendum A and B)
40381-2216-D, No. PK2-ES-107 (Previous edits in Addendum A and B)
40381-2218-D, No. PK2-ES-111 (Previous edits in Addendum A and B)
40381-2219-D, No. PK2-ES-112
40381-2222-D, No. PK2-ES-116
40381-2224-D, No. PK2-ES-401
40381-2225-D, No. PK2-ES-402
40381-2240-D, No. PK2-E-707
40381-2267-D, No. PK2-E-734
40381-2276-D, No. PK2-E-743
40381-2277-D, No. PK2-E-744
40381-2278-D, No. PK2-E-745
40381-2282-D, No. PK2-E-749 (Previous edits in Addendum A and C)
40381-2289-D, No. PK2-E-756
40381-2290-D, No. PK2-E-757
40381-2387-D, No. PK2-10-S-142
40381-2434-D, No. PK2-10-D-143
40381-2495-D, No. PK2-11-D-100
40381-2688-D, No. PK2-20-EP-102
40381-2789-D, No. PK2-30-D-113
40381-2793-D, No. PK2-30-E-113
40381-2822-D, No. PK2-55-E-110
40381-2867-D, No. PK2-58-D-110 (Previous edits in Addendum B and C)
40381-2870-D, No. PK2-58-P-110 (Previous edits in Addendum B and C)

b) **ADD** the following new drawing sheets:

40381-2256A-D, No. PK2-E-723A
40381-2274A-D, No. PK2-E-741A

2. The following Drawing Sheets for PACKAGE 3 Plans have been modified as shown below. See pages 74 through 80 of this Addendum.

a) **DELETE** in its entirety and **REPLACE**:

40381-3005B-D, No. PK3-G-005B (Previous edits in Addendum B and C)
40381-3036-D, PK3-CX-110

40381-3037-D, PK3-CX-111
40381-3038-D, PK3-CG-001
40381-3042-D, PK3-CG-111
40381-3043-D, PK3-CG-501
40381-3044-D, PK3-CG-502

James Nagelvoort, Director
Engineering & Capital Projects Department

Dated: *February 23, 2021*
San Diego, California

JN/RWB/mlw

Table 10-5
Mitigation Measures – North City Pure Water Facility Influent Pump Station

Mitigation Measure	Timing of Mitigation			Responsible Person	Location/Notes
	Pre Const.	During Const.	Post Const.		
MM-AQ-1 (construction BMPs)		X		Construction Manager	Entire site
MM-AQ-2 (construction NO _x)		X		Construction Manager	Entire site
MM-BIO-4 (Coastal California Gnatcatcher)	X	X		City of San Diego	Coastal sage scrub within the facility within MCAS Miramar and within the MHPA south of Miramar Road.
MM-BIO-9a (Qualified biologist)	X			Owner/permittee	Entire site
MM-BIO-9b (preconstruction meeting)	X			City of San Diego	Entire site
MM-BIO-9c (documentation)	X	X	X	Owner/Permittee	Entire site
MM-BIO-9d (biological construction mitigation/monitoring exhibit)	X			City of San Diego	Entire site
MM-BIO-9e (construction fencing)	X			City of San Diego	Entire site
MM-BIO-9f (on-site education)	X			City of San Diego	Entire site
MM-BIO-9g (biological monitoring)		X		City of San Diego	Entire site
MM-BIO-9j (BMPs/erosion/runoff)	X	X	X	City of San Diego	Entire site
MM-BIO-9k (toxics/project staging areas/equipment storage)		X	X	Construction Manager/owner	Entire site
MM-HAZ-2 (hazardous material reporting form)			X	City of San Diego	Entire site
MM-HIS-3 (archaeological monitoring)	X	X	X	Principal Investigator (Archaeologist)	Entire site
MM-NOI-4 (noise and vibration study)	X			Construction Contractor	Entire site
MM-PALEO-1 (paleontological monitoring)	X	X	X	Principal Investigator (Paleontologist)	Entire site

April 2017 10-35 9420-04

PK2-G-005B

CONSTRUCTION CHANGE /ADDENDUM			
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.
ADDENDUM A	01/21	6, 15, 45, 58-59, 61-62, 65, 74-75, 77, 84, 91, 94, 96-97, 100, 106, 108, 114A-157, 161, 164-166, 168, 171, 173, 175-180, 182, 184-190, 193, 195, 211-212, 215-216, 218, 695, 702, 705, 794-796, 798, 806A, 927, 1054A, 1133	
ADDENDUM B	01/21	1, 5B, 14, 19, 29, 41-42, 45, 57-88, 92, 95, 103-105, 107-114, 155-164, 166, 168, 173-175, 177, 181-184, 186-187A, 190, 192A, 195A-195B, 197, 203, 213, 215-216, 218, 229, 232, 695, 705A, 746, 749-750, 867-868A, 870, 872, 885, 904-905, 1048, 1145	
ADDENDUM C	2/21	5B, 59, 61, 69, 72-73, 76, 79, 82-83, 87, 103, 108-110, 114, 159, 173, 214-216, 218-219, 222, 224-225, 240, 256A, 267, 274A, 276-278, 282, 289-290, 387, 434, 495, 688, 789, 793, 822, 867, 870.	

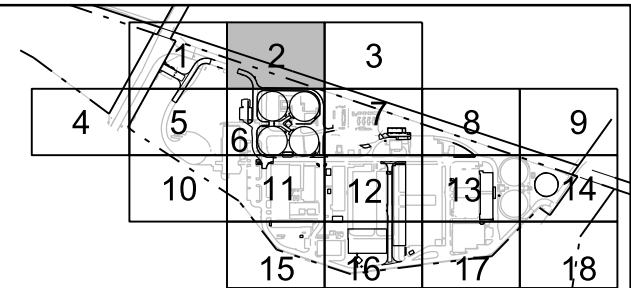
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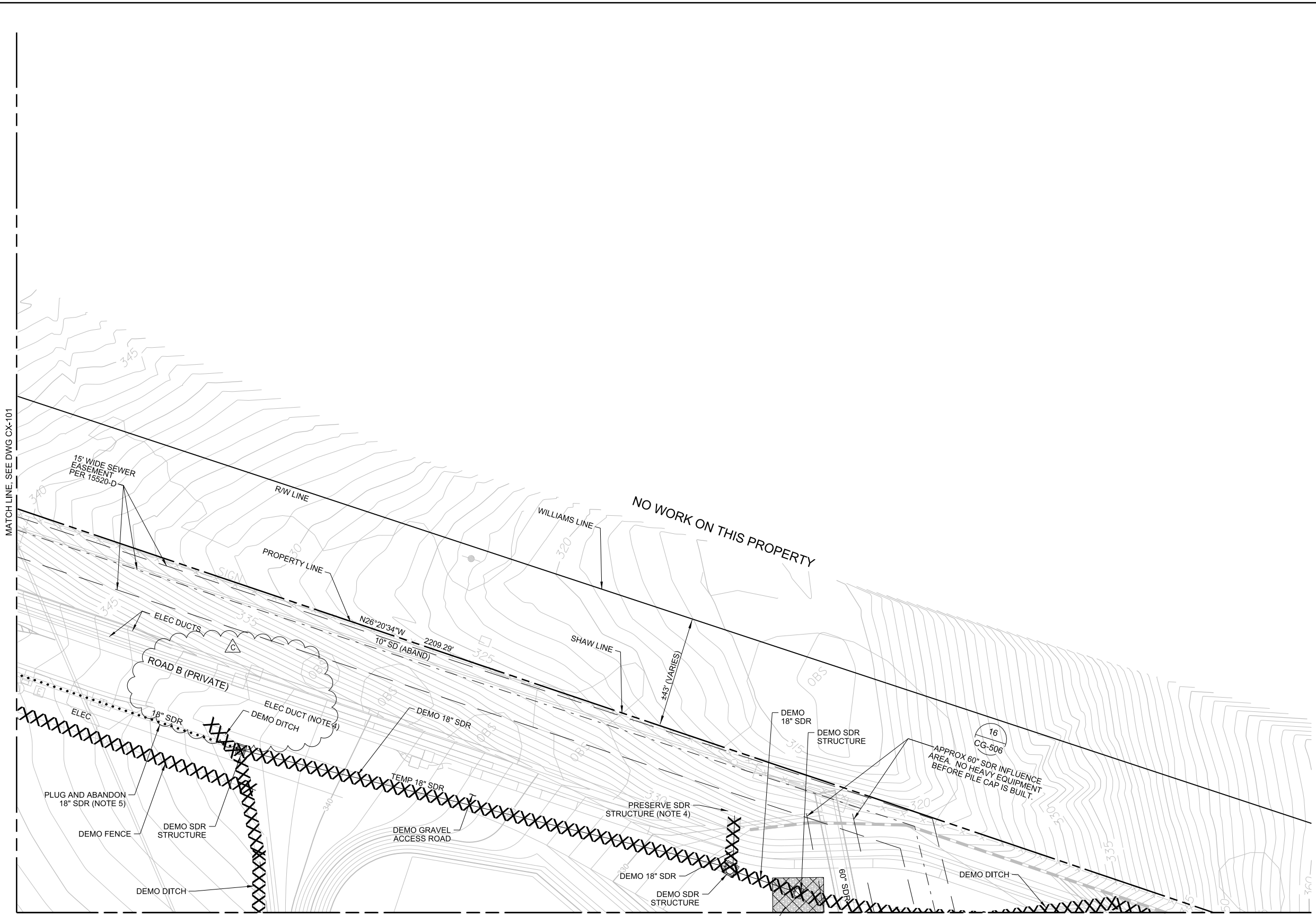


FOR REFERENCE ONLY

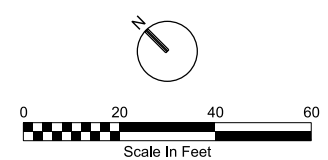
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION			
GENERAL MITIGATION MONITORING AND REPORTING PROGRAM (PAGES 35)			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 5B OF 1169 SHEETS			B-16149, S-17012 WBS B-15142
APPROVED: FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C70321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER	
PRINT DCE NAME Andrea Demich	DCE#	PROJECT ENG: THIEN-LONG TRAN PROJECT ENGINEER	
ADDENDUM A	CH	APPROVED	DATE
ADDENDUM B	CH	APPROVED	DATE
ADDENDUM C	CH	APPROVED	DATE
		260-1709	1900-6269
		CCS27 COORDINATE	CCS83 COORDINATE
CONTRACTOR		DATE STARTED	40381-2005B-D
INSPECTOR		DATE COMPLETED	



KEYPLAN
NTS



- NOTES:**
- SEE DWG Y-102 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - CONTRACTOR TO DETERMINE IF THERE ARE ANY UPSTREAM CONNECTIONS TO EXISTING STORM DRAIN TO BE ABANDONED. IF UPSTREAM CONNECTIONS ARE FOUND, CONTRACTOR SHALL NOTIFY ENGINEER OF WORK IMMEDIATELY.
 - EXISTING IRRIGATION PIPING NOT SHOWN. IF EXISTING PIPING IS DAMAGED, REPLACE IN KIND. REFER TO NCWRP RECORD DRAWINGS FOR EXISTING IRRIGATION PIPING.



PK2-CX-102

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL SITE DEMOLITION PLAN - AREA 2

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 59 OF 1169 SHEETS

APPROVED: <i>Janet A. Demich</i>	DATE: 12/03/2020	PROJECT MANAGER: MONIKA SMOCZYNSKI		
FOR CITY ENGINEER: Andrea Demich	DATE: 07/03/21	PROJECT ENGINEER: THIEN-LONG TRAN		
DESCRIPTION	BY	APPROVED	DATE	FIRM
▲ Addendum A	CH	<i>Janet A. Demich</i>	1/15/21	260-1709
▲ Addendum B	CH	<i>Janet A. Demich</i>	2/3/21	CCS27 COORDINATE
▲ Addendum C	CH	<i>Janet A. Demich</i>	2/22/21	1900-6269
				CCS83 COORDINATE
CONTRACTOR: _____				DATE STARTED: _____
INSPECTOR: _____				DATE COMPLETED: _____

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760-931-8680
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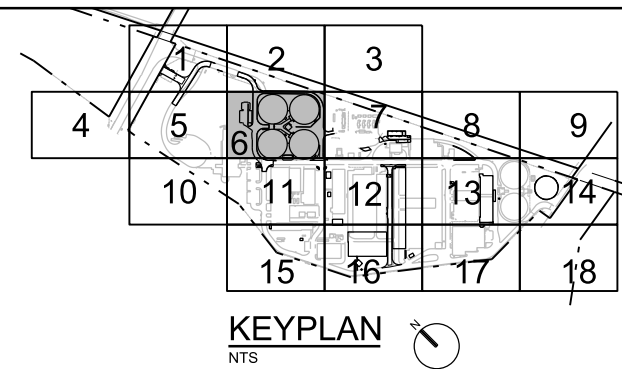
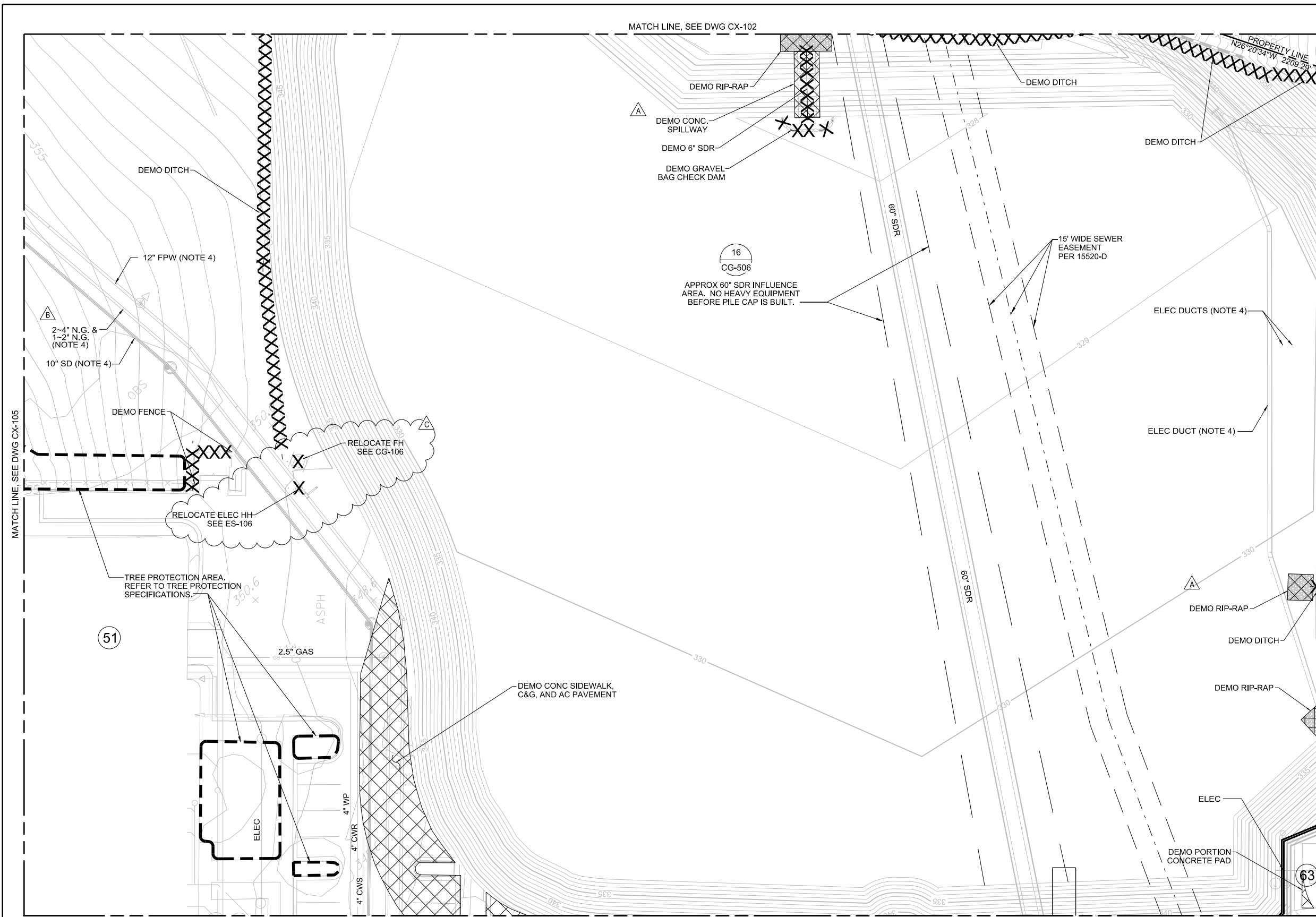
Civil Engineering
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Processing
Surveying

REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
NO. 60223
Exp. 6-30-2022
CIVIL
STATE OF CALIFORNIA

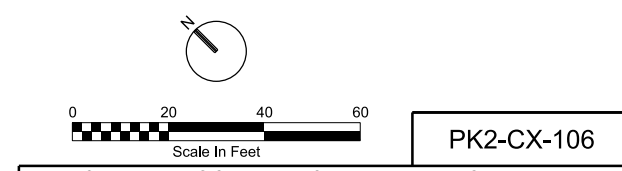
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WARNING

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- NOTES:**
- SEE DWG Y-106 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - EXISTING IRRIGATION PIPING NOT SHOWN. IF EXISTING PIPING IS DAMAGED, REPLACE IN KIND. REFER TO NCRWP RECORD DRAWINGS FOR EXISTING IRRIGATION PIPING.



PK2-CX-106
 NCRWP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
 PACKAGE 2 - NORTH CITY WRP EXPANSION
**CIVIL
 SITE DEMOLITION
 PLAN - AREA 6**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 61 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: FOR CITY ENGINEER Andrew Demich	DATE 12/03/2020 C79321	SUBMITTED BY MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME Andrew Demich	DATE 04/06/2022	PROJECT ENGINEER THIEN-LONG TRAN
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	1/15/21
▲ Addendum B	CH	2/3/21
▲ Addendum C	CH	2/22/21
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-2061-D
INSPECTOR	DATE COMPLETED	

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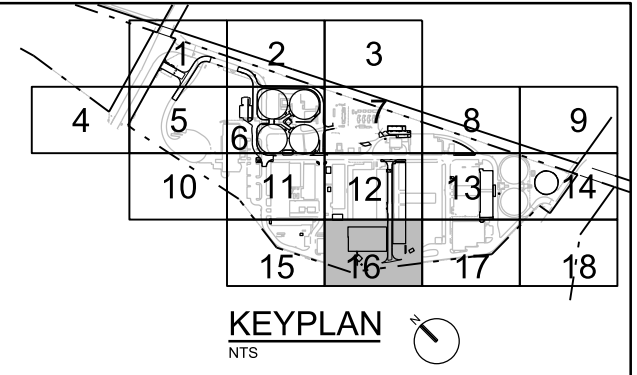
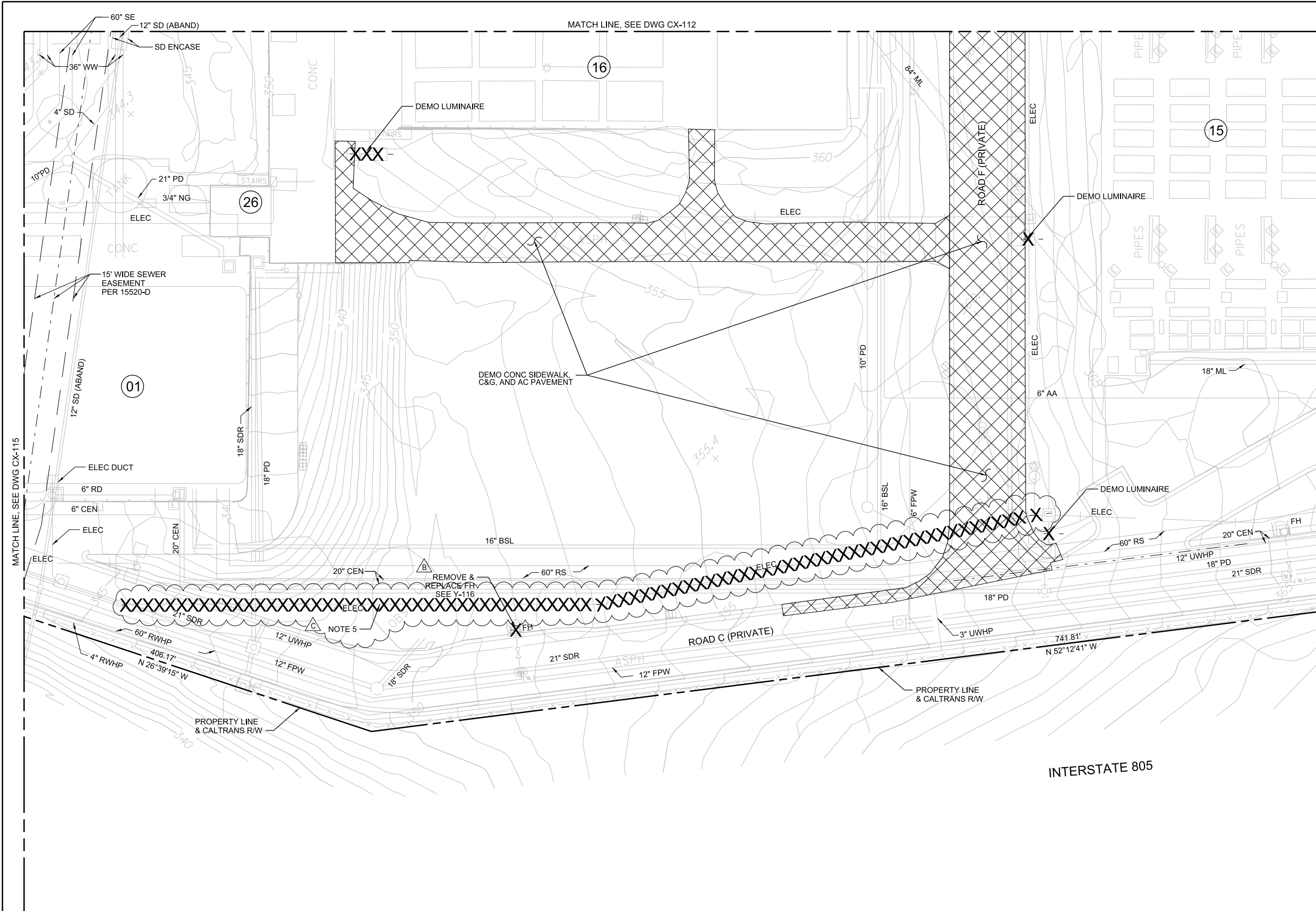
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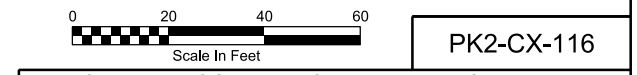
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REGISTERED PROFESSIONAL ENGINEER
KETH W. HANSEN
NO. 60223
CALIFORNIA
CIVIL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 02/10/2021

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- NOTES:**
- SEE DWG Y-116 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EXISTING IRRIGATION PIPING NOT SHOWN. IF EXISTING PIPING IS DAMAGED, REPLACE IN KIND. REFER TO NCRWP RECORD DRAWINGS FOR EXISTING IRRIGATION PIPING.
 - DISCONNECT POWER FOR SITE LIGHTING AT FACILITY 51. SEE ELECTRICAL SITE DRAWINGS. CUT CONDUCTORS AND CONDUIT WITHIN EXCAVATION AREA AND DEMOLISH CONDUIT. SEE PK2-ES-116 FOR LOCATION OF NEW ELECTRICAL HANDHOLE FOR SPLICING NEW CONDUCTORS TO EXISTING.



PK2-CX-116

NCRWP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION

**CIVIL
SITE DEMOLITION
PLAN - AREA 16**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 69 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142	
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020	SUBMITTED BY MONIKA SMOCZYNSKI PROJECT MANAGER	
PRINT DCE NAME Andrea Demich	RCE# C79321	PROJECT ENGINEER THIEN-LONG TRAN	
DESCRIPTION	BY	APPROVED	DATE
▲ Addendum B	CH	Jan 21	2/3/21
▲ Addendum C	CH	Jan 21	2/22/21
		260-1709	
		CCS27 COORDINATE	
		1900-6269	
		CCS83 COORDINATE	
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		40381-2069-D	

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KEITH W. HANSON
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Exp. 6-30-2022
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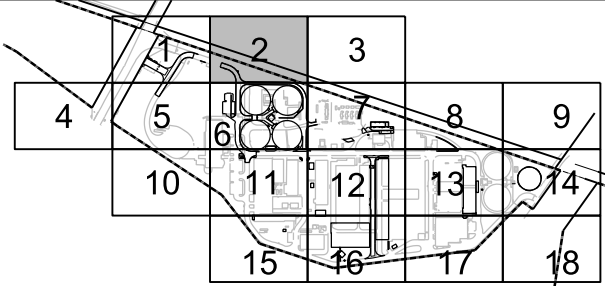
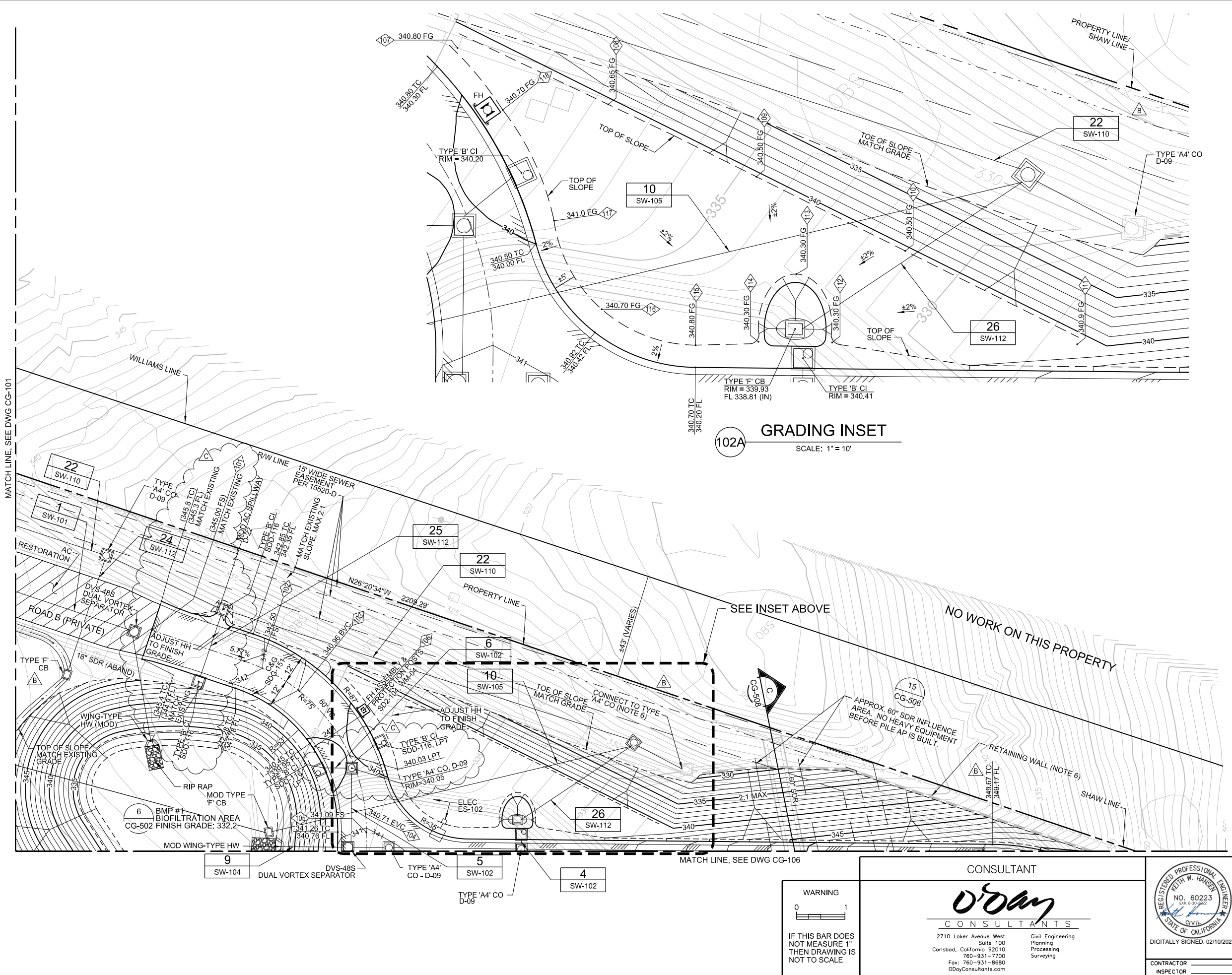
DIGITALLY SIGNED: 02/10/2021

CONTRACTOR: _____
INSPECTOR: _____

WARNING

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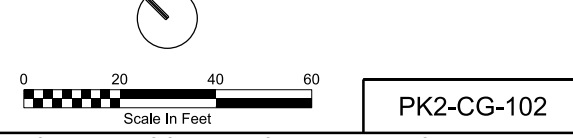


KEYPLAN
NTS

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	BEGIN CL	1901456.95	6270591.36
102	BC' CL	1901420.34	6270609.67
103	CL BVC	1901394.98	6270617.14
104	CL EVC	1901339.02	6270600.39
105	EC CL	1901333.23	6270595.07
106	INSTALL FH ASSEMBLY	1901370.33	6270630.53
107	FINISH GRADE	1901383.97	6270635.25
108	TOP OF SLOPE	1901353.22	6270649.25
109	TOP OF SLOPE	1901320.49	6270660.51
110	TOP OF SLOPE	1901287.36	6270671.59
111	FINISH GRADE	1901247.98	6270683.25
112	FINISH GRADE	1901284.62	6270647.13
113	TOP OF SLOPE	1901300.10	6270651.98
114	FINISH GRADE	1901295.67	6270636.30
115	TOP OF SLOPE	1901304.49	6270626.48
116	TOP OF SLOPE	1901323.77	6270617.88
117	TOP OF SLOPE	1901343.98	6270623.93
118	TOP OF SLOPE	1901368.07	6270632.78

102A GRADING INSET
SCALE: 1" = 10'

- NOTES:**
- SEE DWG Y-102 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
 - GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
 - THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DEMOLITION DETAILS ON DWG CX-102.



PK2-CG-102

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL SITE GRADING & LOCATION PLAN - AREA 2

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 73 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020	SUBMITTED BY MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME Andrea Demich	DATE 12/03/2020	PROJECT ENGINEER THIEN-LONG TRAN
DESCRIPTION	BY	APPROVED
▲ Addendum B	CH	12/3/21
▲ Addendum C	CH	2/22/21
		DATE FILM
		260-1709
		1900-6269
		CCS27 COORDINATE
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-2073-D
INSPECTOR	DATE COMPLETED	

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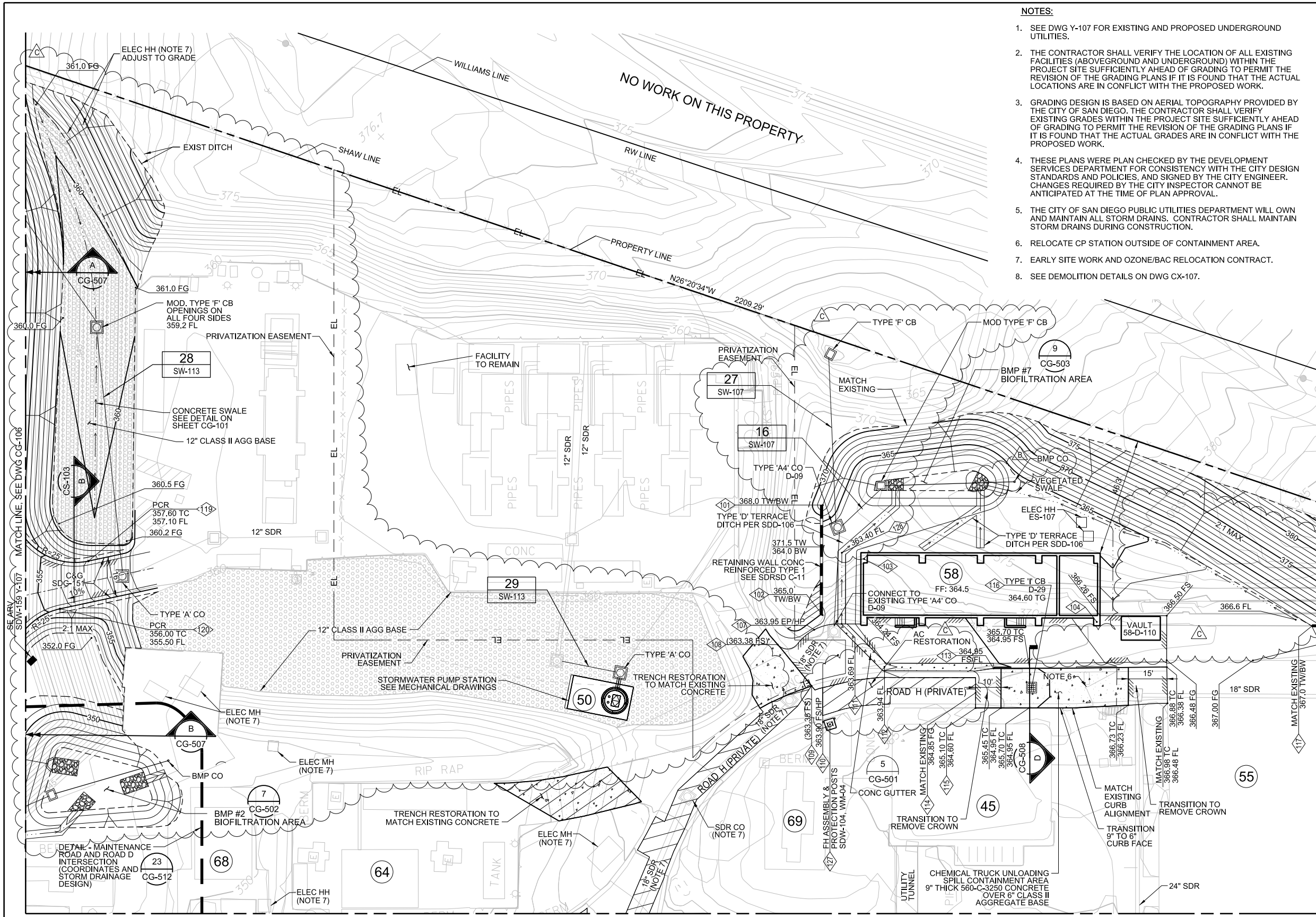
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REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
NO. 60223
EXPIRES 06/30/2022
CIVIL
STATE OF CALIFORNIA

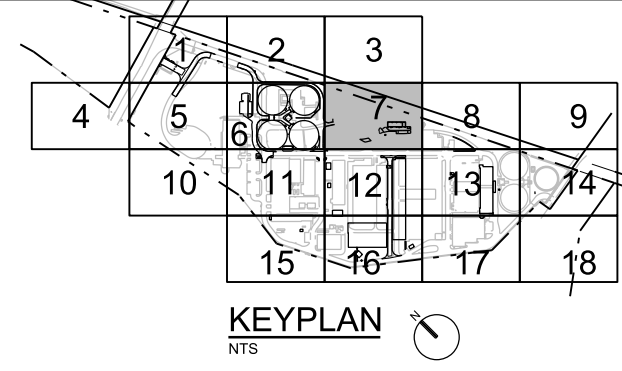
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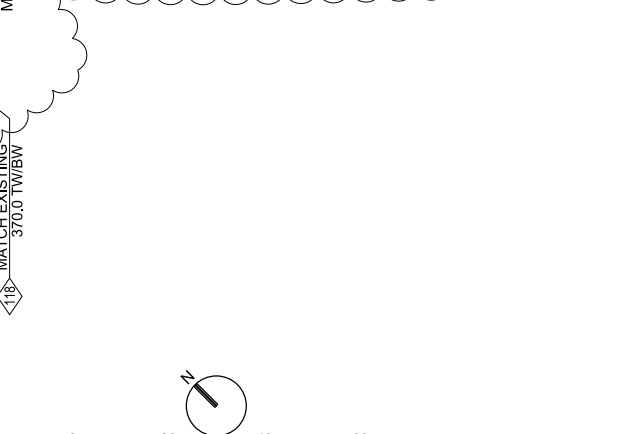


- NOTES:**
- SEE DWG Y-107 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
 - GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
 - THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - RELOCATE CP STATION OUTSIDE OF CONTAINMENT AREA.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DEMOLITION DETAILS ON DWG CX-107.



COORDINATE TABLE

NO	DESCRIPTION	NORTHING	EASTING
101	BEGIN WALL	1900719.22	6270935.43
102	END WALL	1900688.72	6270904.81
103	BLDG CORNER/GRIDLINE A/1	1900692.06	6270931.19
104	BLDG CORNER/GRIDLINE B/5	1900609.94	6270978.37
107	EDGE OF PVMT/HP	1900686.99	6270898.39
108	MATCH EXISTING CURB	1900693.00	6270884.14
109	EDGE OF CONC/MATCH EXISTING	1900672.14	6270882.09
110	FS/HP	1900673.34	6270897.98
111	END CONC SWALE	1900681.03	6270907.60
112	ANGLE POINT CONC SWALE/FL	1900657.15	6270907.56
113	BEGIN CONC GUTTER	1900626.45	6270937.48
114	EDGE OF CONC/MATCH EXISTING	1900624.63	6270925.73
115	CORNER OF CONC	1900620.42	6270921.50
116	TOP OF GRATE	1900610.52	6270942.74
117	RETAINING WALL	1900549.74	6271037.82
118	RETAINING WALL	1900551.41	6271043.44
119	PCR C&G	1900907.69	6270715.84
120	PCR C&G	1900902.32	6270694.70
121			
122			
123			
124			
125			
126			
127	FH ASSEMBLY	1900656.32	6270876.58
128	ANGLE POINT CONC SWALE/FL	1900700.70	6270927.46



PK2-CG-107

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL SITE GRADING & LOCATION PLAN - AREA 7

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 76 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER Andreas Demich	DATE: 12/03/2020 C79321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: Andreas Demich	RCE#	CREATED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum C	CH	<i>[Signature]</i>
		DATE: 2/22/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
		40381-2076-D

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KEITH W. HANSEN
No. 60223
Exp. 6-30-2022
CIVIL
STATE OF CALIFORNIA

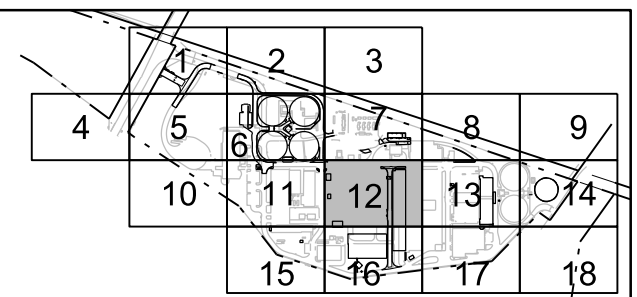
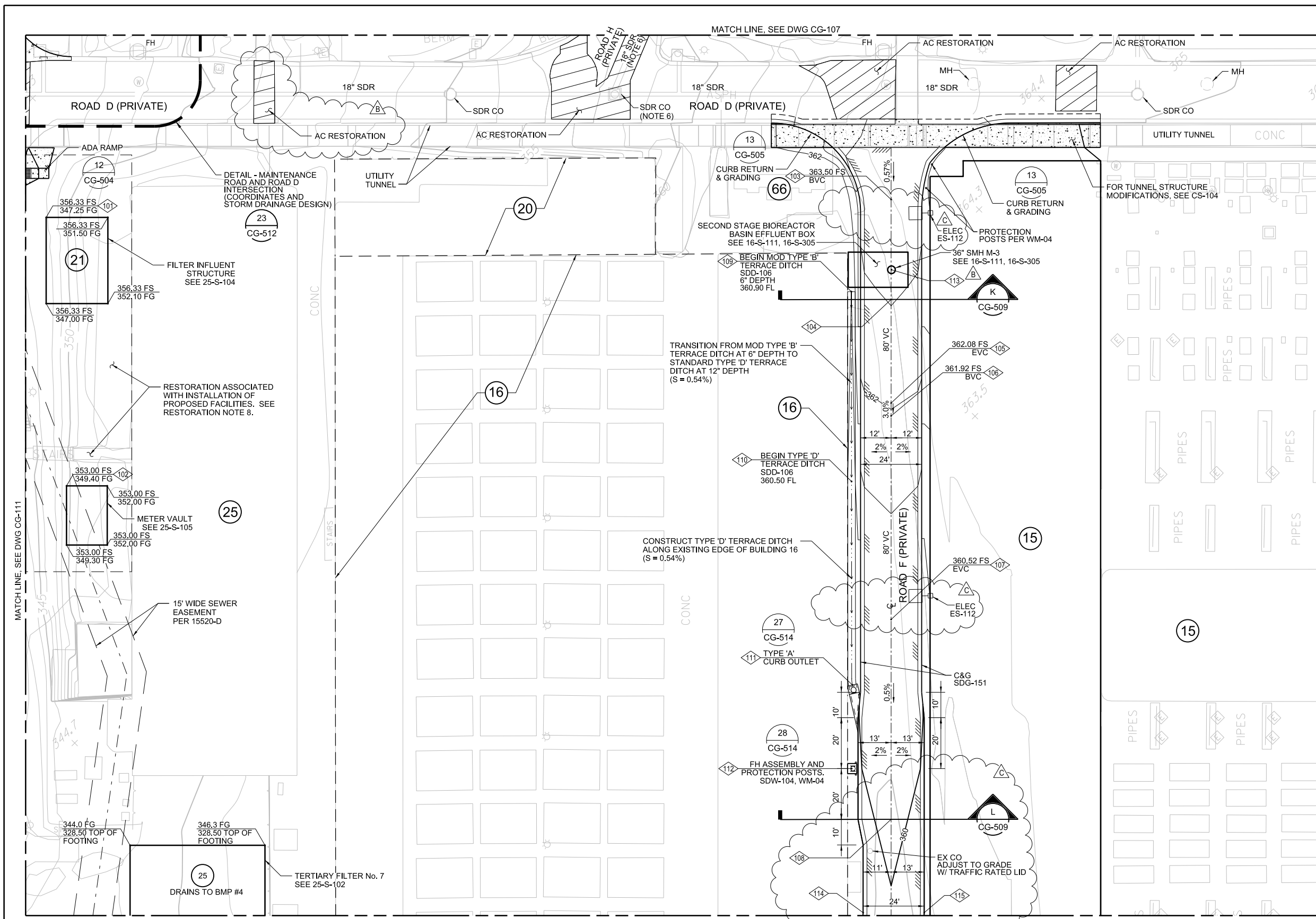
DIGITALLY SIGNED: 02/10/2021

CONTRACTOR _____
INSPECTOR _____

WARNING

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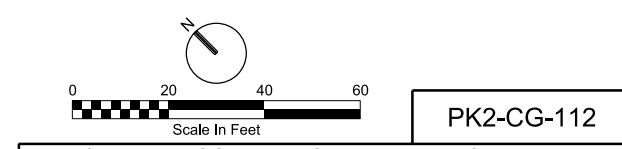


KEYPLAN
NTS

COORDINATE TABLE

NO	DESCRIPTION	NORTHING	EASTING
101	FILTER INFLUENT STRUCTURE	1900770.95	6270555.57
102	METER VAULT	1900690.69	6270486.63
103	BEGIN VERTICAL CURVE	1900541.19	6270795.29
104	CL ROAD F - SECTION K	1900513.42	6270767.52
105	END VERTICAL CURVE	1900484.62	6270738.72
106	BEGIN VERTICAL CURVE	1900481.05	6270735.14
107	END VERTICAL CURVE	1900424.48	6270678.57
108	CL ROAD F - SECTION L	1900368.96	6270623.06
109	BEGIN MOD TERRACE DITCH	1900526.63	6270758.64
110	END MOD TERRACE DITCH	1900473.83	6270705.94
111	TYPE 'A' CURB OUTLET	1900417.03	6270649.64
112	FIRE HYDRANT ASSEMBLY	1900394.01	6270626.19
113	SMH	1900521.57	6270775.87
114	BEGIN 25' CURB TRANSITION	1900350.79	6270589.34
115	BEGIN 25' CURB TRANSITION	1900333.82	6270606.31

- NOTES:**
- SEE DWG Y-112 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
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 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DEMOLITION DETAILS ON DWG CX-112.
 - SEE SECTION 400 "PROTECTION AND RESTORATION" AND SECTION 401 "REMOVAL" OF THE 2018 GREEN BOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS MODIFIED BY THE CITY OF SAN DIEGO SUPPLEMENTAL WHITEBOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



PK2-CG-112

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CIVIL

SITE GRADING & LOCATION

PLAN - AREA 12

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 79 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Janice L...</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C79321	SUBMITTED BY: MONIKA SMOczynski PROJECT MANAGER
DESCRIPTION	BY	APPROVED
▲ Addendum B	CH	<i>Janice L...</i>
▲ Addendum C	CH	<i>Janice L...</i>
DATE	FILE	
2/3/21		
2/22/21		
PROJECT ENGINEER: THIEN-LONG TRAN		
260-1709		
CCS27 COORDINATE		
1900-6269		
CCS83 COORDINATE		
40381-2079-D		

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KEITH W. HANSEN
No. 60223
Exp. 6-30-2022
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STATE OF CALIFORNIA

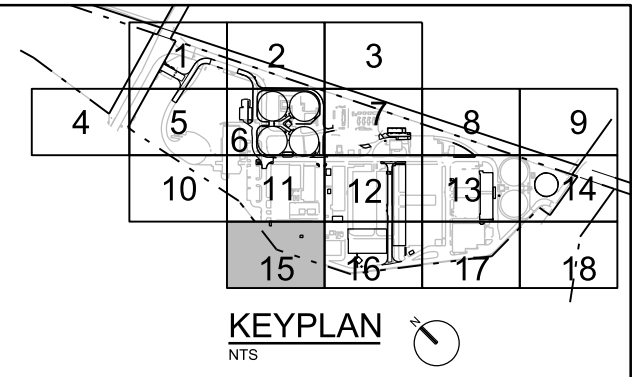
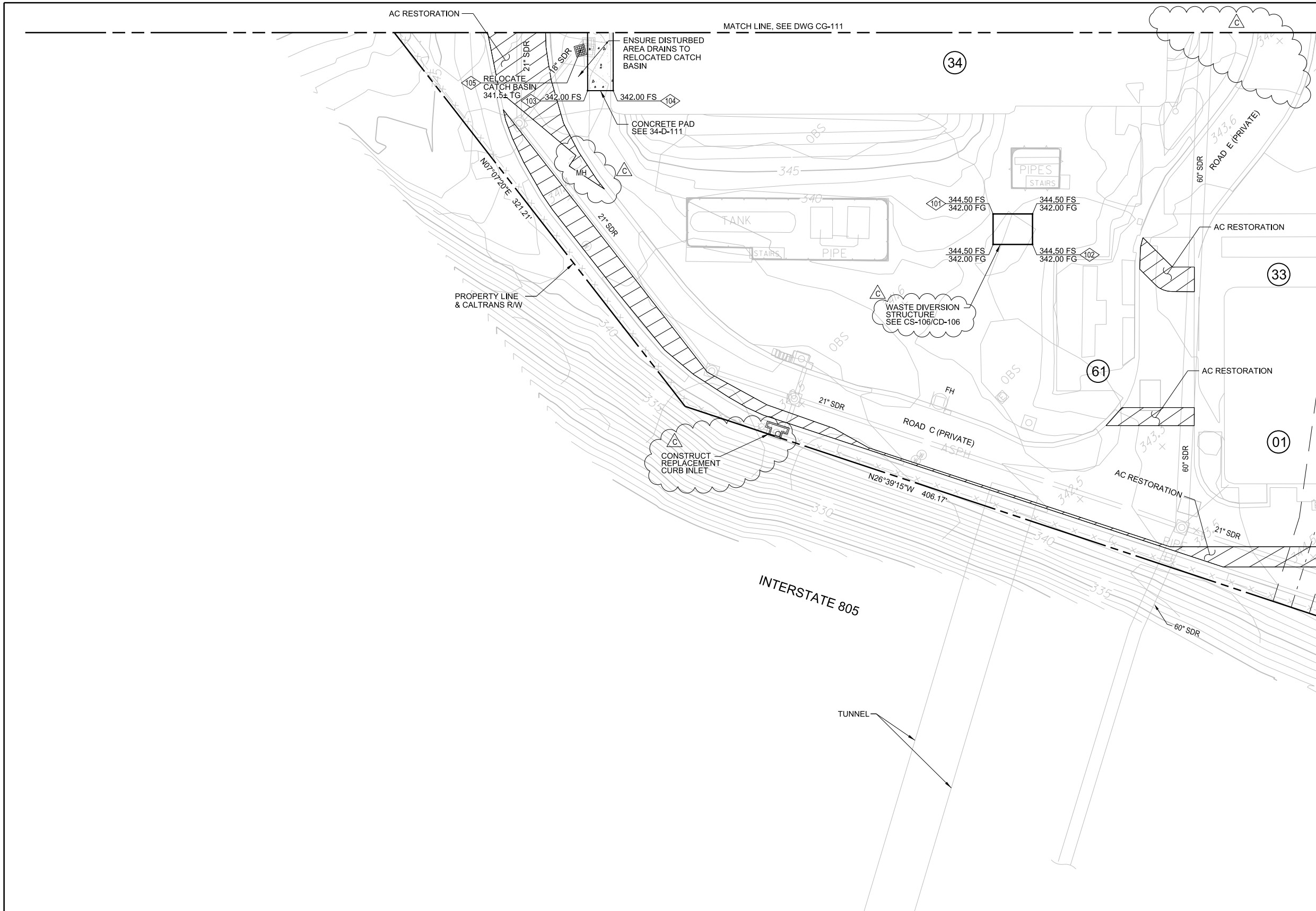
DIGITALLY SIGNED: 02/10/2021

CONTRACTOR: _____
INSPECTOR: _____

DATE STARTED: _____
DATE COMPLETED: _____

WARNING

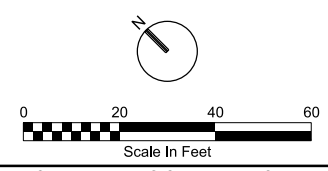
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



COORDINATE TABLE

NO	DESCRIPTION	NORTHING	EASTING
101	WASTE VAULT	1900622.89	6270214.77
102	WASTE VAULT	1900603.45	6270217.24
103	CORNER CONC PAD	1900769.78	6270136.39
104	CORNER CONC PAD	1900762.70	6270143.50
104	RELOCATE CATCH BASIN	1900782.97	6270145.51

- NOTES:**
- SEE DWG Y-115 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
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 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - SEE DEMOLITION DETAILS ON DWG CX-115.



PK2-CG-115

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL
SITE GRADING & LOCATION
PLAN - AREA 15

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 82 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Janice</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C79321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION	BY	APPROVED
▲ Addendum C	CH	<i>Janice</i>
		DATE FILM: 2/22/21
		260-1709
		1900-6269
		40381-2082-D
CONTRACTOR	DATE STARTED	DATE COMPLETED
INSPECTOR		

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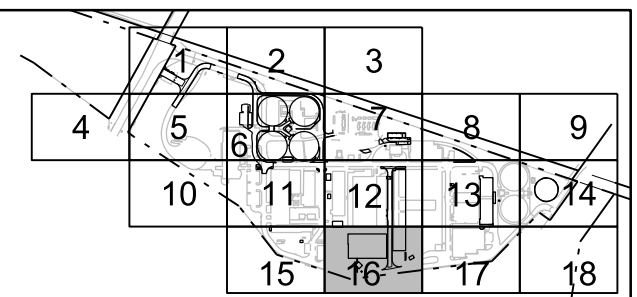
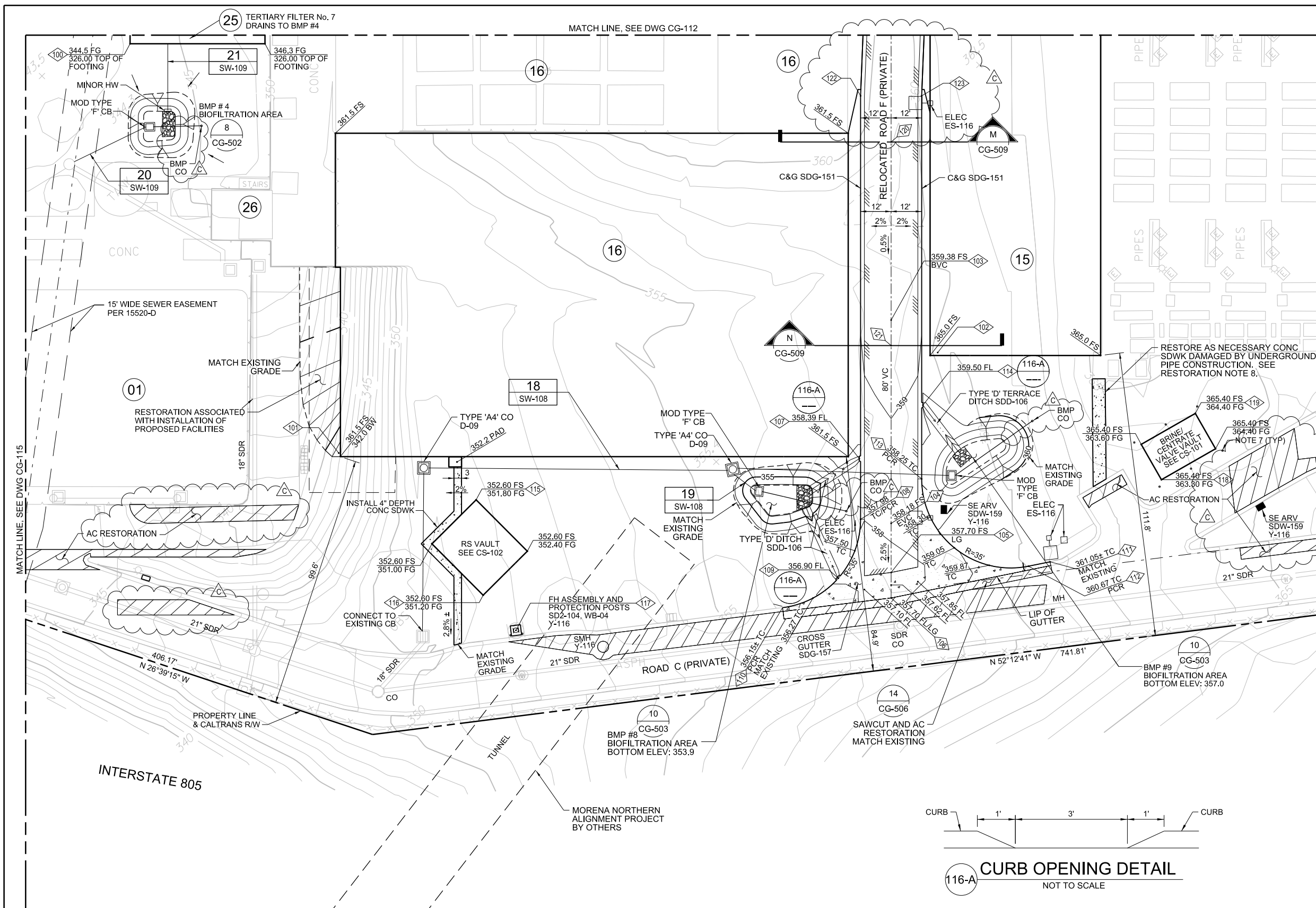
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REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
NO. 60223
Exp. 6-30-2022
CIVIL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 02/10/2021

WARNING

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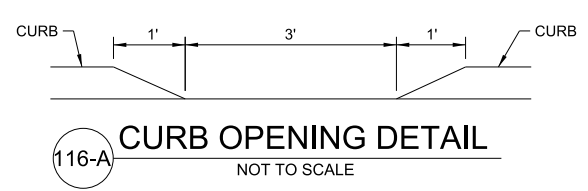


KEYPLAN
NTS

COORDINATE TABLE

NO.	DESCRIPTION	NORTHING	EASTING
100	TERTIARY FILTER No. 7	1900551.24	6270382.49
101	GRID A/23	1900379.55	6270326.74
102	GRID A/10	1900241.07	6270521.07
103	BEGIN VERTICAL CURVE	1900263.13	6270517.23
104	END VERTICAL CURVE	1900206.56	6270460.66
105	CL @ CROSS GUTTER	1900193.04	6270447.15
106	END CL @ LG	1900185.85	6270439.93
107	CENTER 3' WIDE CURB CUT	1900233.37	6270469.80
108	BEGIN CURB RETURN	1900216.18	6270453.31
109	CENTER 3' WIDE CURB CUT	1900206.50	6270430.82
110	MATCH EXISTING C&G	1900213.30	6270407.08
111	MATCH EXISTING C&G	1900151.71	6270494.13
112	END CURB RETURN	1900156.53	6270486.88
113	BEGIN CURB RETURN	1900210.42	6270481.50
114	CENTER 3' WIDE CURB CUT	1900230.57	6270502.35
115	RS VAULT	1900328.38	6270351.91
116	RS VAULT	1900299.93	6270327.35
117	FIRE HYDRANT ASSEMBLY	1900281.07	6270326.71
118	CENTRATE VAULT	1900143.59	6270547.88
119	CENTRATE VAULT	1900152.59	6270575.72
120	CL ROAD F - SECTION M	1900312.52	6270566.62
121	CL ROAD F - SECTION N	1900255.95	6270510.05
122	END 25' CURB TRANSITION	1900333.82	6270570.95
123	END 25' CURB TRANSITION	1900316.85	6270587.93

- NOTES:**
- SEE DWG Y-116 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
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 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - SEE DEMOLITION DETAILS ON DWG CX-116.
 - PROTECTIVE POSTS PER CS-101.
 - SEE SECTION 400 "PROTECTION AND RESTORATION" AND SECTION 401 "REMOVAL" OF THE 2018 GREEN BOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS MODIFIED BY THE CITY OF SAN DIEGO SUPPLEMENTAL WHITEBOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.



Scale In Feet: 0 20 40 60

PK2-CG-116

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CIVIL SITE GRADING & LOCATION PLAN - AREA 16

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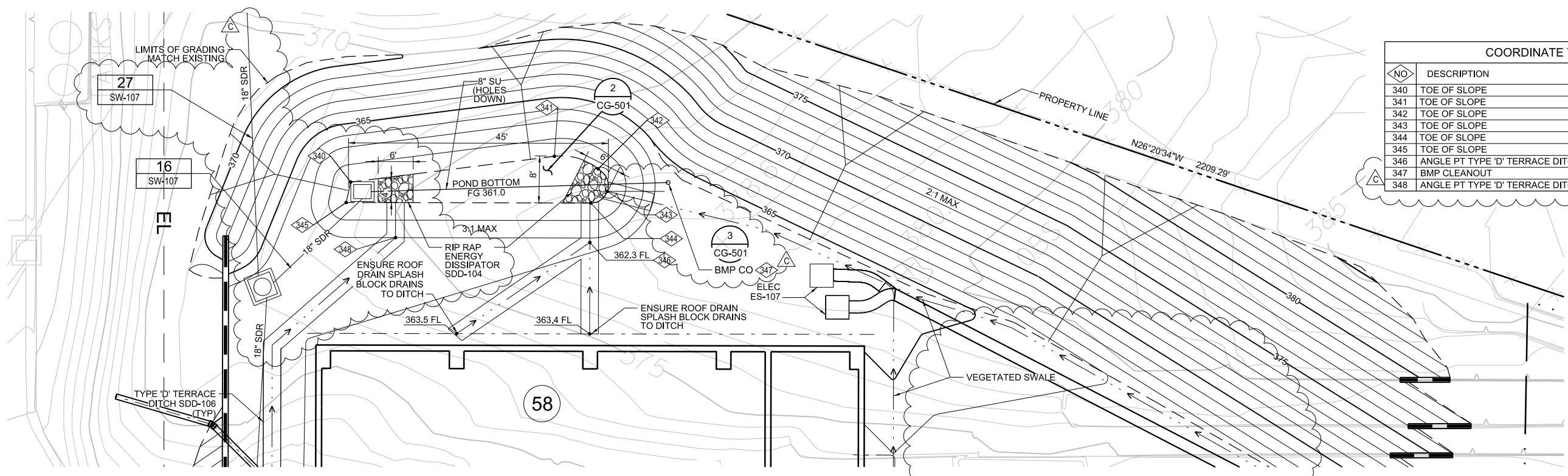
REGISTERED PROFESSIONAL ENGINEER
KETH W. HANSEN
NO. 60223
DATE 0-20-2021
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 02/10/2021

CONTRACTOR: _____
INSPECTOR: _____

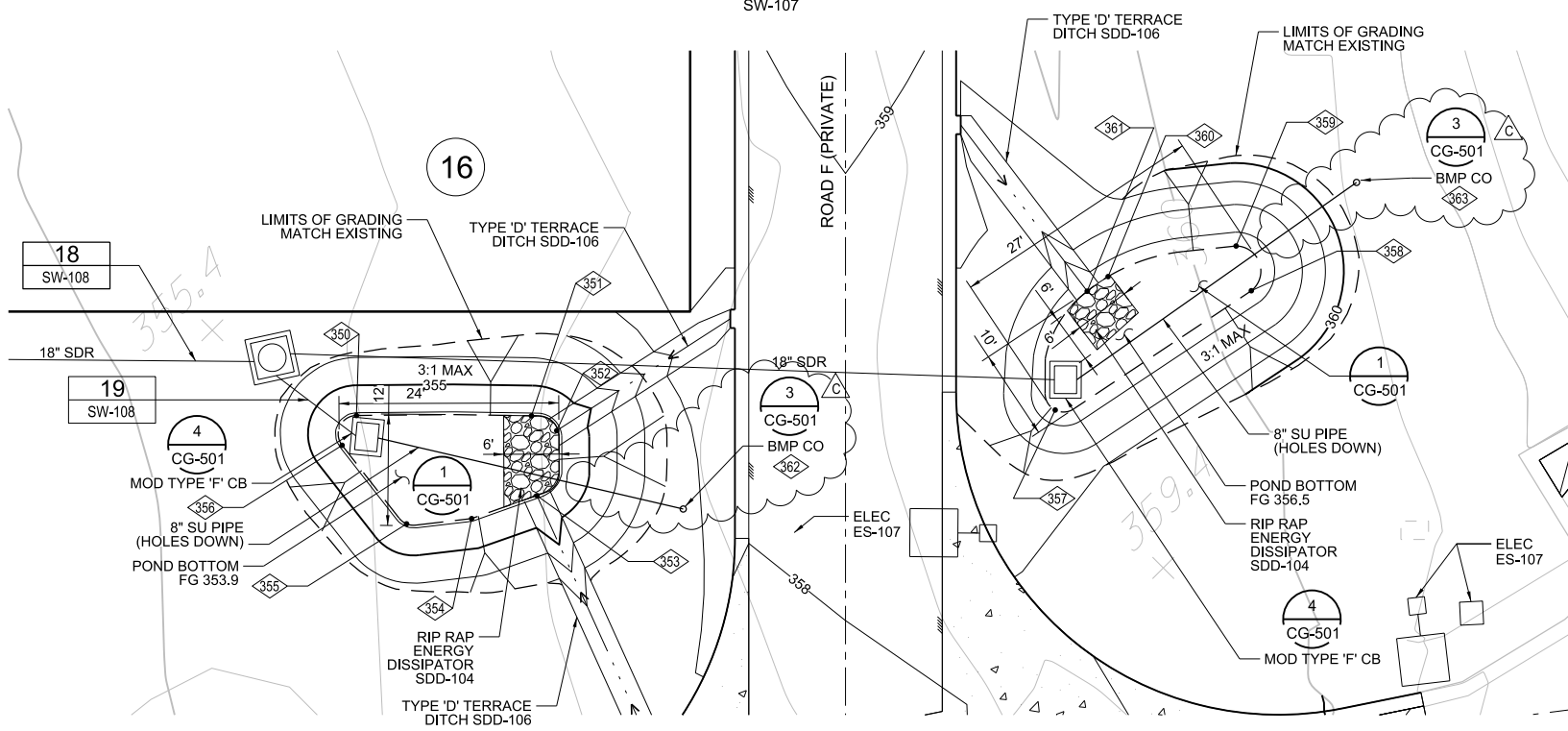
DATE STARTED: _____
DATE COMPLETED: _____

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 83 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER Andrea Demich	DATE: 12/03/2020 C79321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME: <i>[Signature]</i> DESCRIPTION: Addendum C	BY: CH APPROVED: <i>[Signature]</i> DATE: 2/22/21	PROJECT ENGINEER: THIEN-LONG TRAN 260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
CONTRACTOR: _____ INSPECTOR: _____		DATE STARTED: _____ DATE COMPLETED: _____



COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
340	TOE OF SLOPE	1900710.95	6270956.74
341	TOE OF SLOPE	1900689.39	6270984.55
342	TOE OF SLOPE	1900682.56	6270988.33
343	TOE OF SLOPE	1900678.71	6270986.72
344	TOE OF SLOPE	1900679.30	6270983.31
345	TOE OF SLOPE	1900709.02	6270953.72
346	ANGLE PT TYPE 'D' TERRACE DITCH	1900674.65	6270978.40
347	BMP CLEANOUT	1900672.44	6270995.15
348	ANGLE PT TYPE 'D' TERRACE DITCH	1900698.78	6270955.44

9 **BMP 7 - POND DETAIL**
SCALE: 1" = 10';



COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
350	TOE OF SLOPE	1900254.65	6270433.69
351	TOE OF SLOPE	1900241.19	6270447.10
352	END TYPE 'D' TERRACE DITCH	1900238.12	6270447.91
353	END TYPE 'D' TERRACE DITCH	1900234.64	6270441.40
354	TOE OF SLOPE	1900237.90	6270434.63
355	TOE OF SLOPE	1900242.49	6270429.23
356	TOE OF SLOPE	1900253.46	6270430.31
357	TOE OF SLOPE	1900201.44	6270487.73
358	TOE OF SLOPE	1900195.54	6270511.93
358	TOE OF SLOPE	1900200.15	6270514.19
360	TOE OF SLOPE	1900207.62	6270502.03
361	END TYPE 'D' TERRACE DITCH	1900208.11	6270499.30
362	BMP CLEANOUT	1900222.40	6270451.60
363	BMP CLEANOUT	1900195.78	6270528.31

10 **BMP 8 AND 9 - POND DETAILS**
SCALE: 1" = 10';

PK2-CG-503

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CIVIL SITE GRADING PLAN - DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 87 OF 1169 SHEETS

APPROVED: *Andrea Demich* DATE: 12/03/2020
FOR CITY ENGINEER: *Andrea Demich* DATE: 07/03/21
PRINT DCE NAME: *Andrea Demich* RCE#: *070321*

DESIGNED BY: *Andrea Demich* DATE: 12/03/2020
PROJECT ENGINEER: **THIEN-LONG TRAN**

DESCRIPTION	BY	APPROVED	DATE	FILM
Addendum C	CH	<i>Andrea Demich</i>	2/22/21	

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

CONSULTANT

O'Day CONSULTANTS

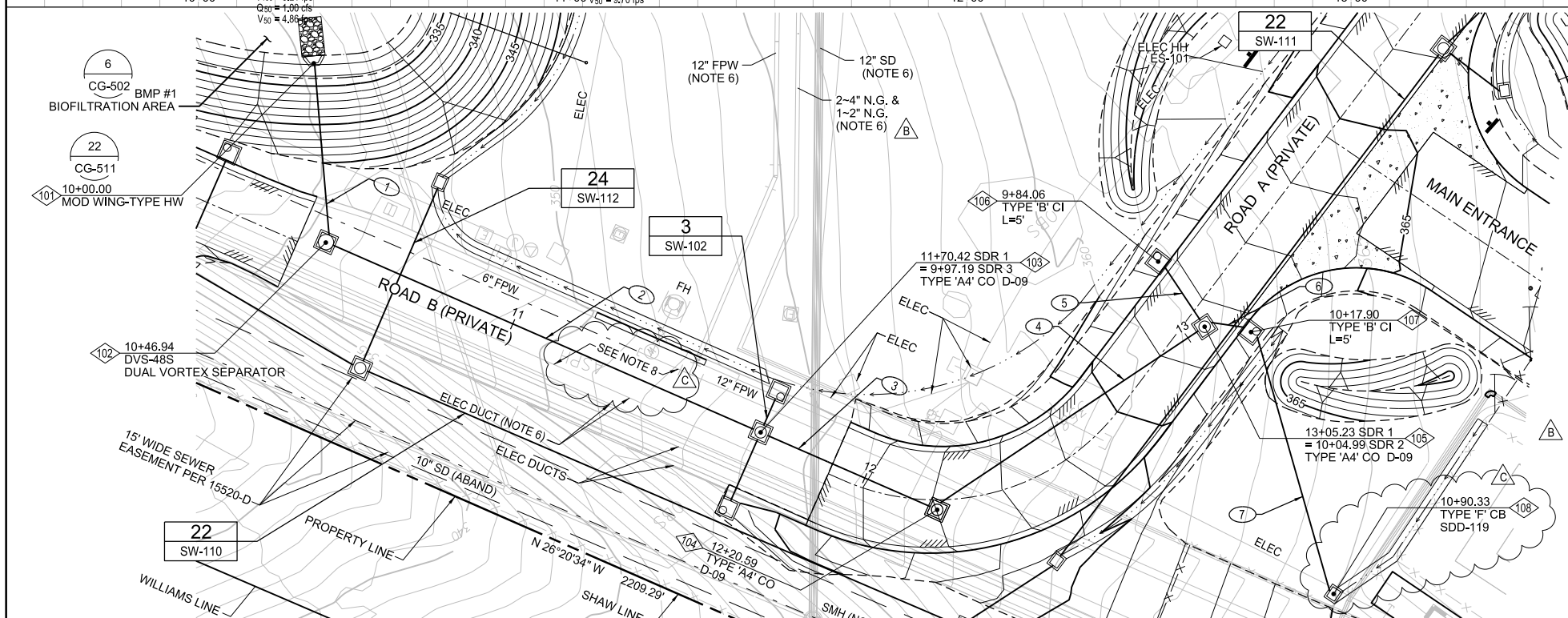
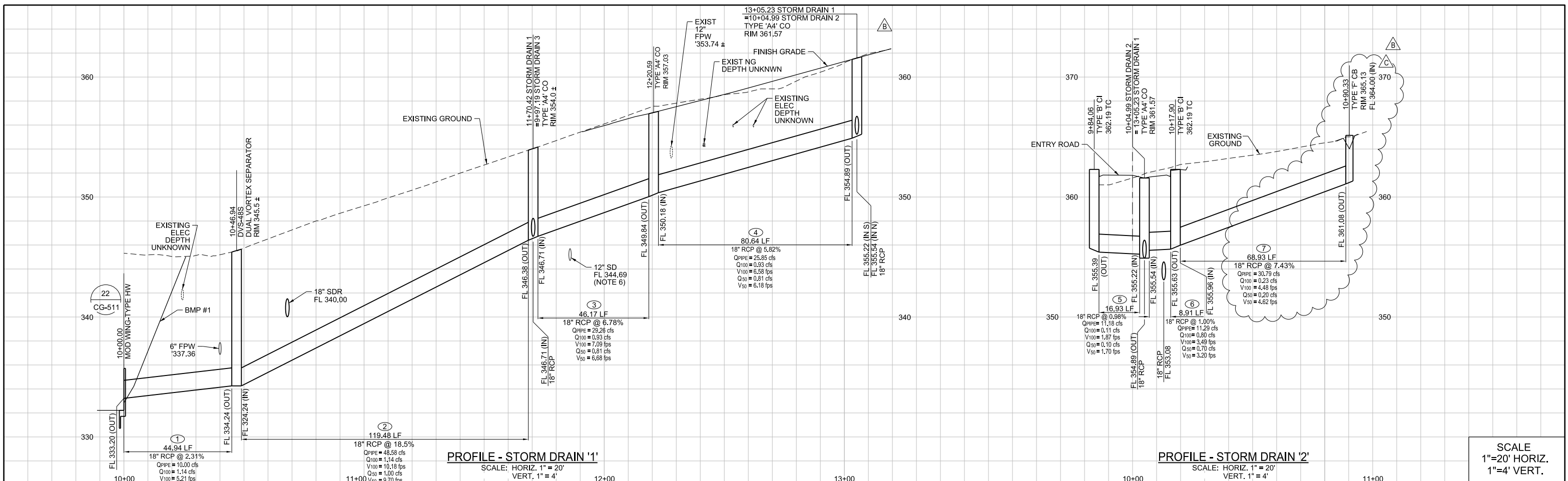
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Carlsbad, California 92010
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760-931-8680
O'DayConsultants.com

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REGISTERED PROFESSIONAL ENGINEER
KETH W. HANSEN
NO. 60223
DATE: 06-16-2002
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 02/10/2021

WARNING
0 1
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STORM DRAIN PIPE DATA

NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 35°09'19" E	---	44.94'	18" RCP - D-1350
2	N 26°21'06" W	---	119.48'	" " " "
3	N 26°22'56" W	---	46.17'	" " " "
4	N 83°41'22" W	---	80.64'	" " " "
5	N 06°18'38" E	---	16.93'	" " " "
6	N 41°41'43" W	---	8.91'	" " " "
7	N 24°04'54" E	---	68.93'	" " " "

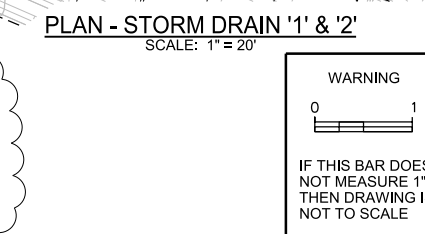
COORDINATE TABLE

NO	DESCRIPTION	NORTHING	EASTING
101	WING TYPE HEADWALL	1901424.18	6270558.12
102	DVS-48S	1901461.81	6270585.78
103	TYPE 'A4' CO	1901572.46	6270530.97
104	TYPE 'A4' CO	1901617.43	6270508.74
105	TYPE 'A4' CO	1901625.66	6270424.79
106	TYPE 'B' CI	1901604.90	6270423.16
107	TYPE 'B' CI	1901634.48	6270416.44
108	TYPE 'F' CB	1901700.52	6270443.79

- NOTES:**
- SEE DWGS Y-101 AND Y-102 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
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 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DWGS CG-101 AND CG-102 FOR GRADING PLANS.

NOTES: (CONT)

- BASED ON OBSERVATION OF AC DISTURBANCE ON EXISTING ROAD B, AND CONVERSATIONS WITH CONTRACTOR AND CONSTRUCTION MANAGER FOR EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT, IT IS ANTICIPATED THAT THERE MAY BE LIMITED SPACE BETWEEN THE EXISTING FIRE LINE AND ELECTRIC DUCT (7 FEET ±). CONTRACTOR SHALL POT HOLE LOCATION OF EXISTING LINES ALONG THE STORM DRAIN ALIGNMENT IN ADVANCE OF ORDERING MATERIALS OR BEGINNING CONSTRUCTION OF THE STORM DRAIN AND PROVIDE RESULTS TO CONSTRUCTION MANAGER FOR EVALUATION AND POTENTIAL DESIGN MODIFICATIONS.



CONSULTANT

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760-931-7700
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Civil Engineering
Planning
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REGISTERED PROFESSIONAL ENGINEER
KETH W. HANSEN
NO. 60223
CIVIL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 02/10/2021

PK2-SW-101

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CIVIL STORM DRAINAGE PLAN AND PROFILE

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 103 OF 1169 SHEETS

APPROVED: [Signature] DATE: 12/03/2020
FOR CITY ENGINEER: Andrea Demich
PRINT DCE NAME: Andrea Demich
RCE#

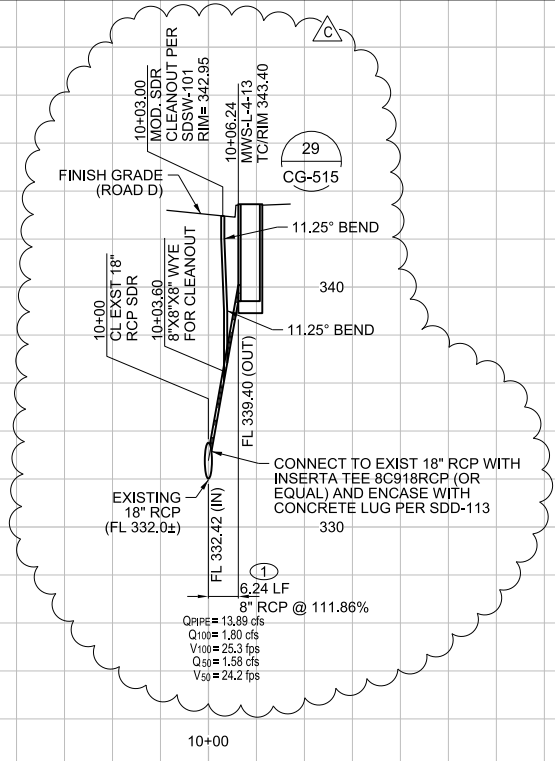
DATE: 12/03/2020
DATE: 12/03/2020

PROJECT MANAGER: MONIKA SMO CZYNSKI
PROJECT ENGINEER: THIEN-LONG TRAN

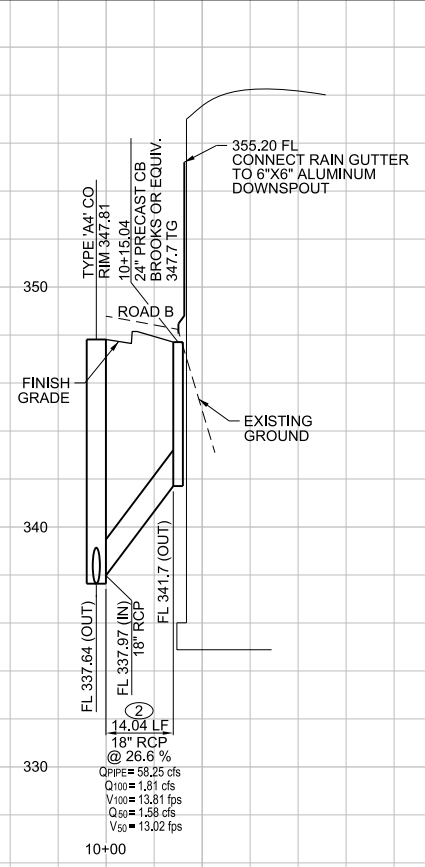
DESCRIPTION	BY	APPROVED	DATE	FILM
Addendum B	CH	[Signature]	2/3/21	
Addendum C	CH	[Signature]	2/22/21	

CONTRACTOR: [Blank] DATE STARTED: [Blank]
INSPECTOR: [Blank] DATE COMPLETED: [Blank]

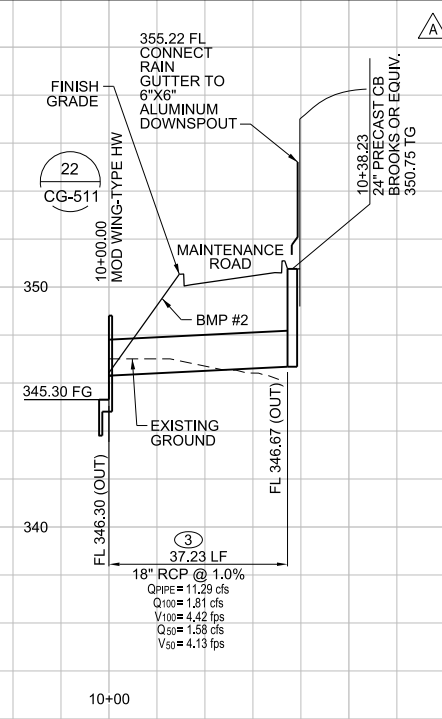
40381-2103-D



PROFILE - STORM DRAIN '12'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'



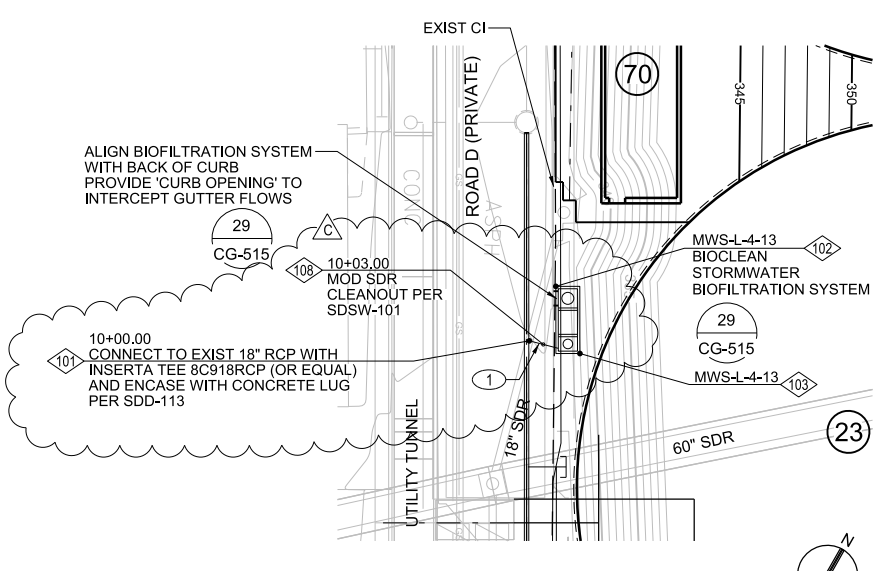
PROFILE - STORM DRAIN '14'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'



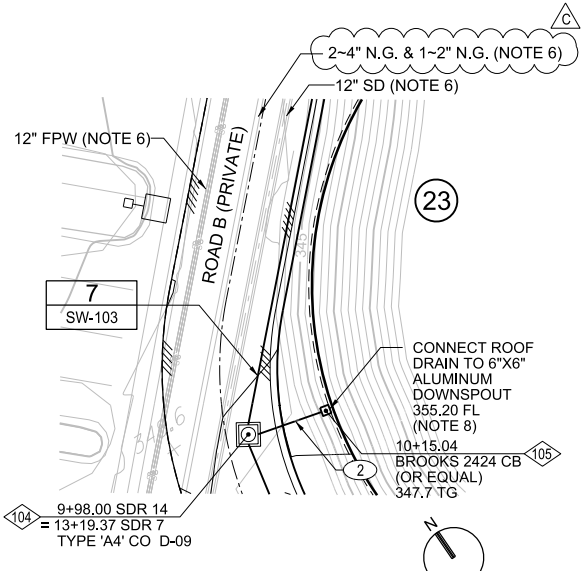
PROFILE - STORM DRAIN '15'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

- NOTES:**
- SEE DWGS Y-101, Y-102, Y-106 AND Y-107 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
 - GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
 - THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DWGS CG-101, CG-102, CG-106 AND CG-107 FOR GRADING PLANS.
 - PLACE DOWNSPOUT CONNECTION DIRECTLY ABOVE 24" CATCH BASIN

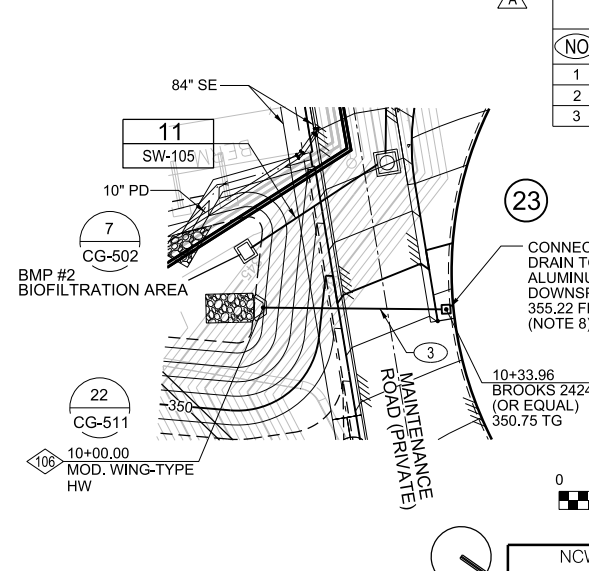
SCALE
1"=20' HORIZ.
1"=4' VERT.



PLAN - STORM DRAIN '12'
SCALE: 1" = 20'



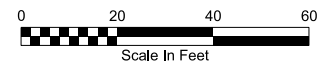
PLAN - STORM DRAIN '14'
SCALE: 1" = 20'



PLAN - STORM DRAIN '15'
SCALE: 1" = 20'

STORM DRAIN PIPE DATA				
NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 59°32'55" E	—	6.24'	8" PVC C-900
2	N 74°49'36" W	—	14.04'	18" RCP - D-1350
3	N 34°26'13" W	—	37.23'	18" RCP - D-1600

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	LUG INTO EXISTING	1900914.21	6270492.63
102	NW CORNER OF STRUCTURE	1900925.75	6270487.87
103	SE CORNER OF STRUCTURE	1900919.41	6270501.31
104	TYPE 'A4' CO	1901096.90	6270368.03
105	24" CATCH BASIN	1901091.80	6270384.14
106	WING-TYPE HEADWALL	1900862.61	6270648.33
107	24" CATCH BASIN	1900894.09	6270626.74
108	MOD SDR CO	1900915.35	6270494.58



PK2-SW-106

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL STORM DRAINAGE PLAN AND PROFILE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 108 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 RCE#: C79321	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>[Signature]</i> 1/15/21
▲ Addendum C	CH	<i>[Signature]</i> 2/22/21
DATE STARTED		1900-6269
DATE COMPLETED		CCS27 COORDINATE
		CCS83 COORDINATE
CONTRACTOR		40381-2108-D

CONSULTANT

O'Day CONSULTANTS

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Carlsbad, California 92010
760-931-7700
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Fax: 760-931-8680
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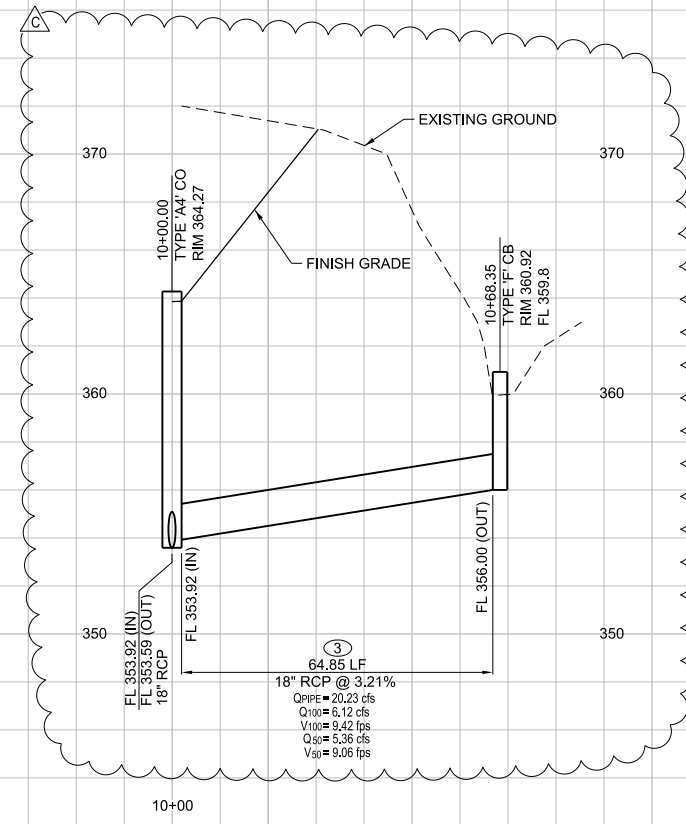
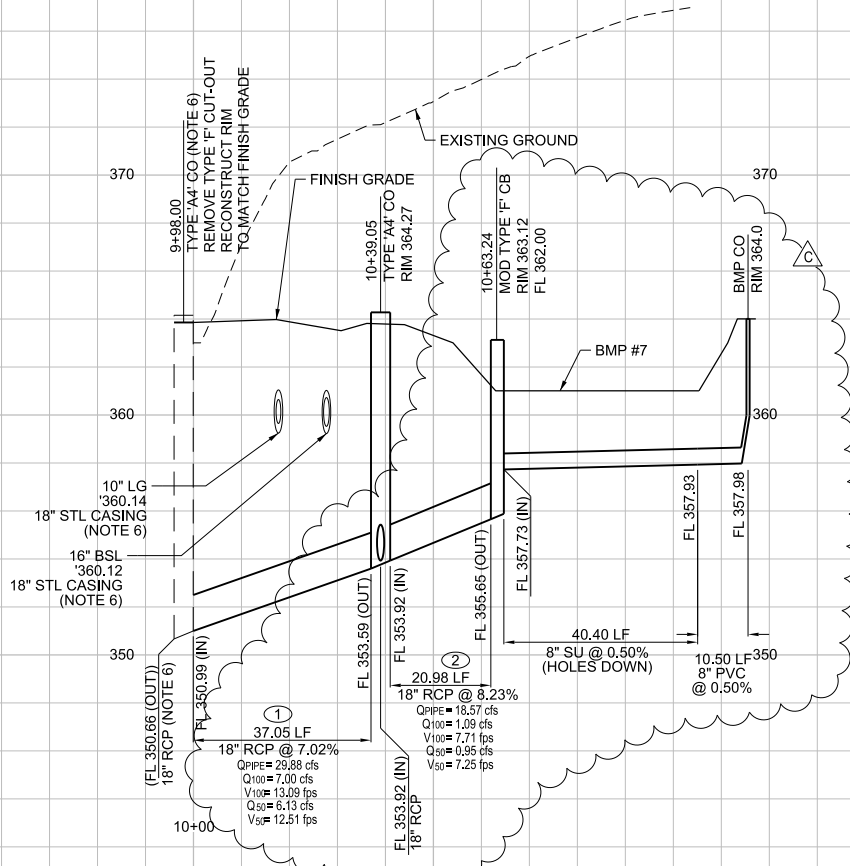
Civil Engineering
Planning
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Surveying

REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
NO. 60223
Exp. 6-30-2022
CIVIL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 02/10/2021

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

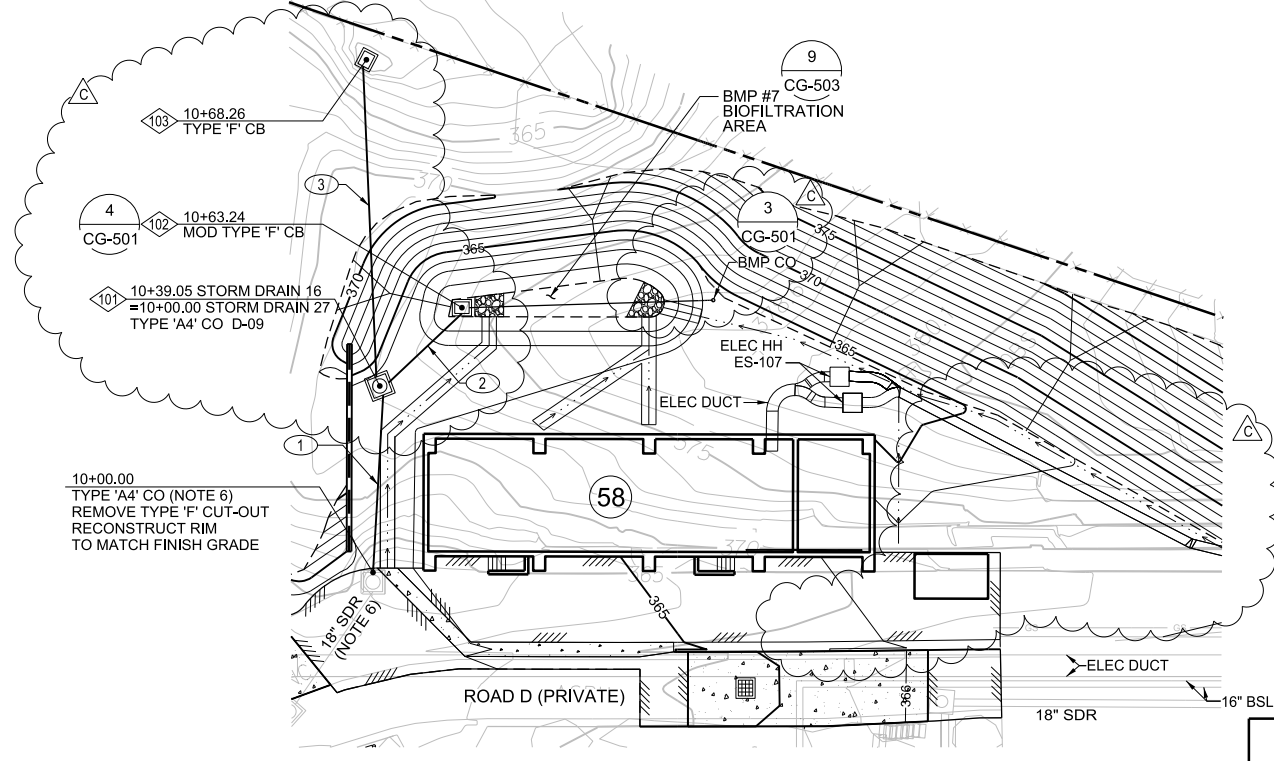
- NOTES:**
- SEE DWG Y-107 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
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 - THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - SEE DWG CG-107 FOR GRADING PLANS.



SCALE
1"=20' HORIZ.
1"=4' VERT.

STORM DRAIN PIPE DATA				
NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 48°17'25" E	—	37.05'	18" RCP - D-1350
2	N 88°20'44" W	—	20.98'	" " "
3	N 42°33'37" E	—	64.85'	" " "

COORDINATE TABLE			
NO	DESCRIPTION	NORTHING	EASTING
101	TYPE 'A4' CO	1900708.93	6270933.36
102	MOD TYPE 'F' CB	1900708.37	6270957.01
103	TYPE 'F' CB	1900758.97	6270979.46



WARNING
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PK2-SW-107

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CIVIL STORM DRAINAGE PLAN AND PROFILE

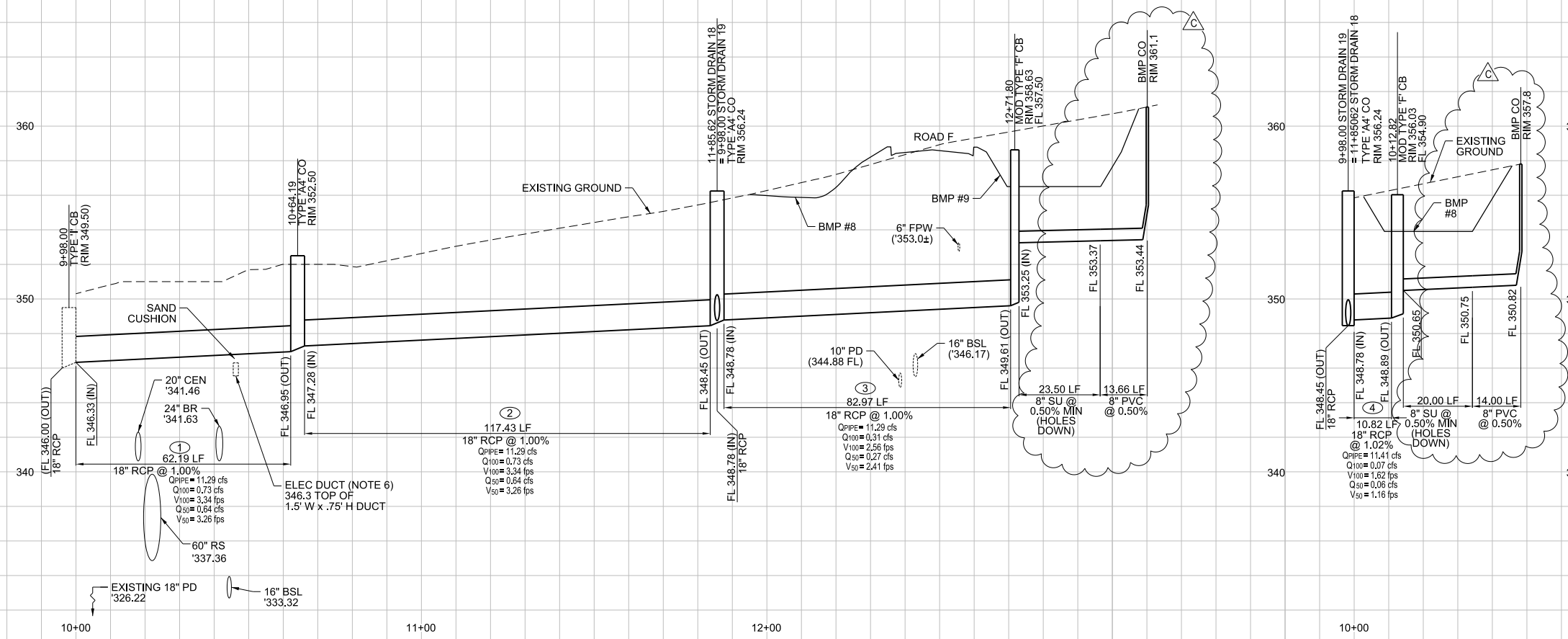
CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 109 OF 1169 SHEETS

APPROVED: [Signature] DATE: 12/03/2020
FOR CITY ENGINEER: Andrea Demich PROJECT MANAGER: MONIKA SMOczynski

PRINT DCE NAME: Andrea Demich RICE# C79321
DESCRIPTION: Addendum C BY: CH APPROVED: [Signature] DATE: 2/22/21

CREATED BY: THIEN-LONG TRAN PROJECT ENGINEER
260-1709
CCS27 COORDINATE: 1900-6269
CCS83 COORDINATE: 40381-2109-D

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____



- NOTES:**
- SEE DWG Y-116 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
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 - SEE DWG CG-116 FOR GRADING PLANS.

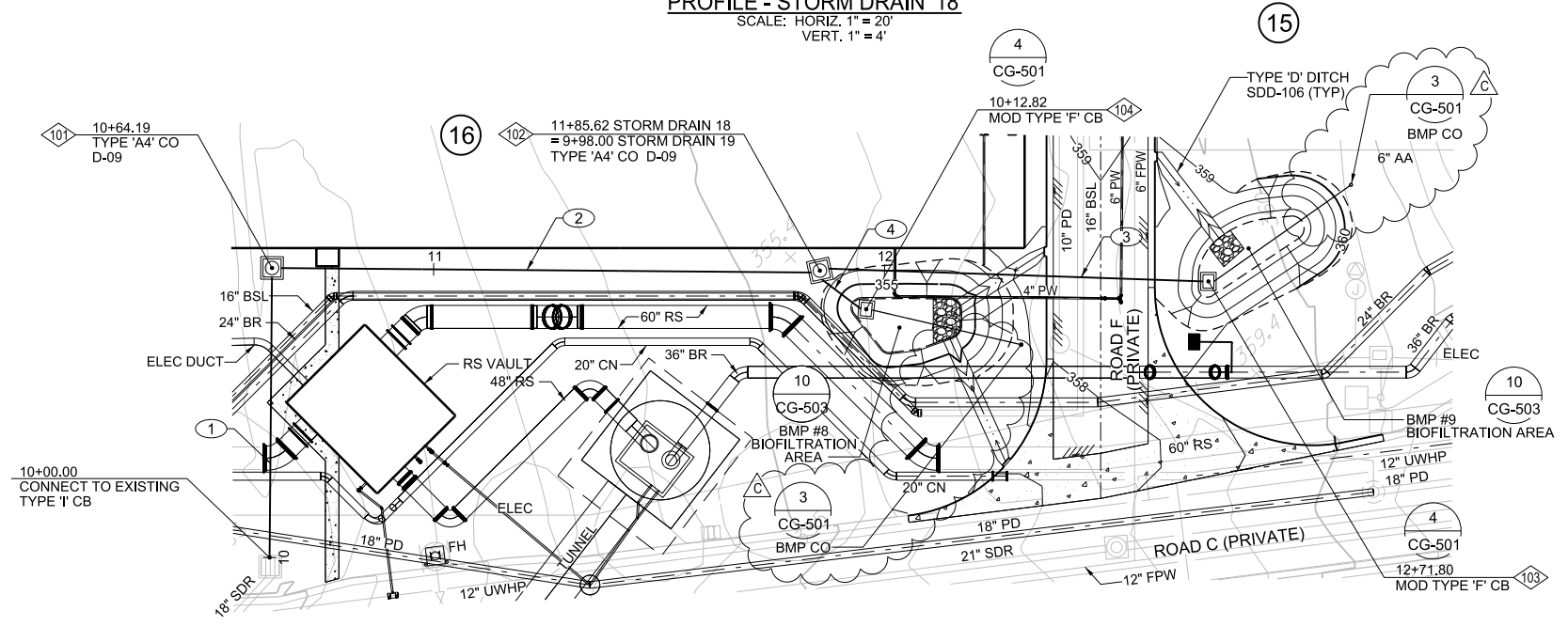
SCALE
1"=20' HORIZ.
1"=4' VERT.

PROFILE - STORM DRAIN '18'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

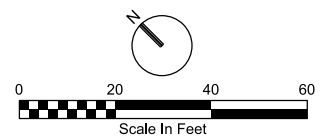
PROFILE - STORM DRAIN '19'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'

NO	DESCRIPTION	NORTHING	EASTING
101	TYPE 'A4' CO	1900351.78	6270346.25
102	TYPE 'A4' CO	1900265.54	6270431.67
103	MOD TYPE 'F' CB	1900202.98	6270490.84
104	MOD TYPE 'F' CB	1900252.19	6270432.86

NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 45°28'53" E	---	62.19'	18" RCP - D-1350
2	N 44°31'07" W	---	117.43'	" " "
3	N 43°03'07" W	---	82.97'	" " "
4	N 07°55'55" W	---	10.84'	" " "



PLAN - STORM DRAIN '18' & '19'
SCALE: 1" = 20'



PK2-SW-108

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
CIVIL STORM DRAINAGE PLAN AND PROFILE

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 110 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER: <i>Andrea Demich</i> DATE: 12/03/2020 PRINT DCE NAME: Andrea Demich RICE#	DATE: 12/03/2020 DATE: 12/22/21	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER PROJECT ENGINEER: THIEN-LONG TRAN
DESCRIPTION: Addendum C	BY: CH	DATE: 2/22/21
APPROVED: <i>Andrea Demich</i>	DATE: 2/22/21	FILM: 260-1709
CONTRACTOR: _____		DATE STARTED: _____
INSPECTOR: _____		DATE COMPLETED: _____

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REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
NO. 60223
DATE: 6-30-2022
CIVIL
STATE OF CALIFORNIA

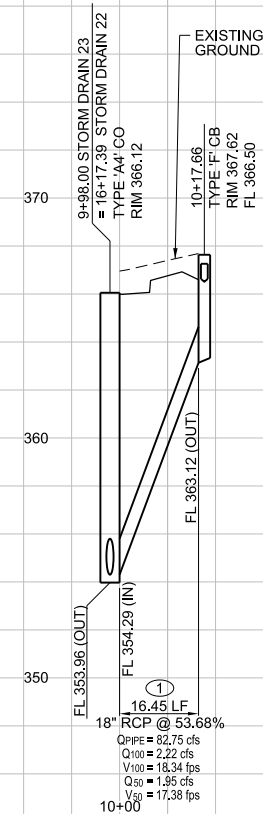
DIGITALLY SIGNED: 02/10/2021

CONTRACTOR: _____
INSPECTOR: _____

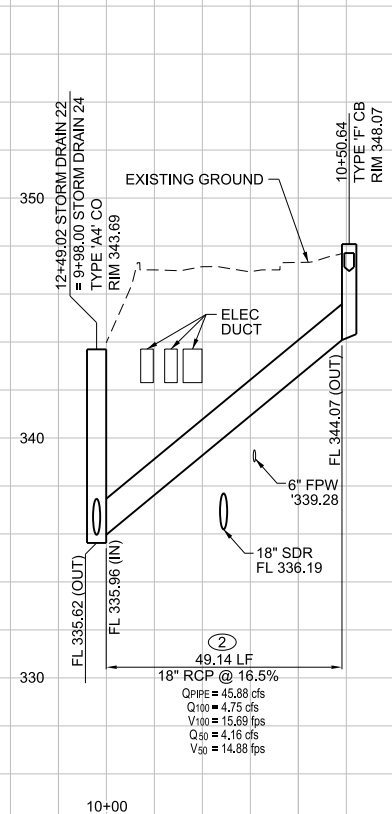
WARNING

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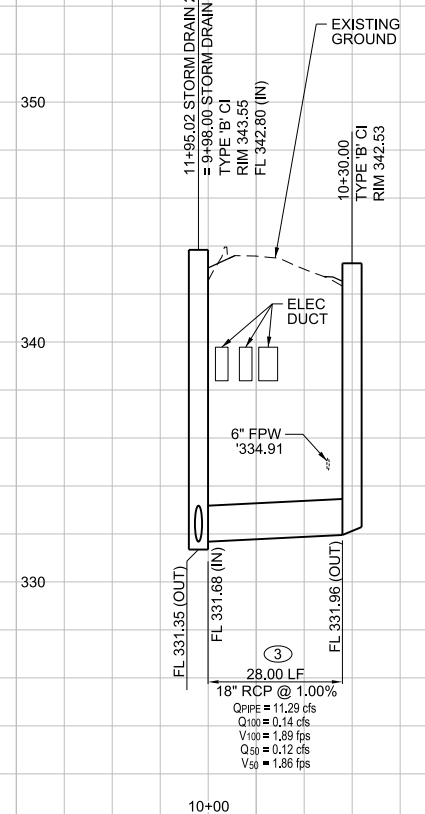
- NOTES:**
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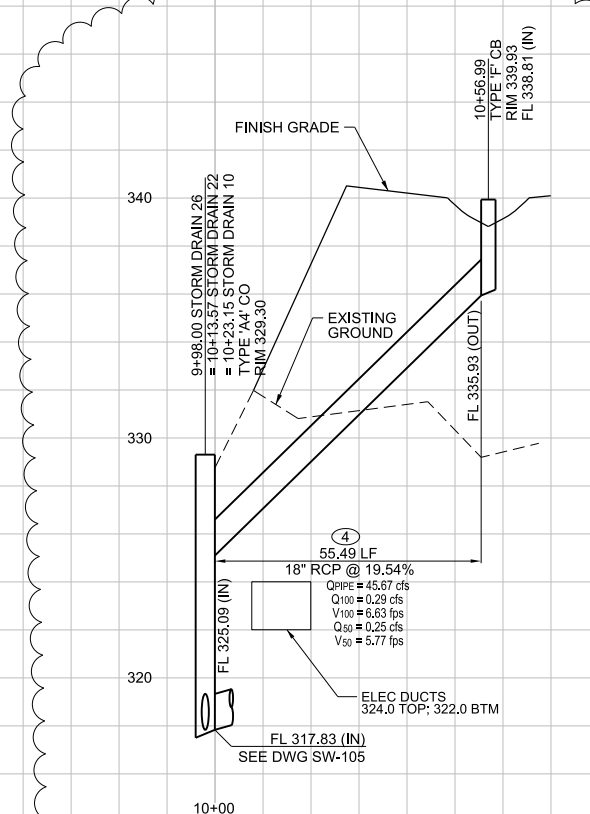
PROFILE - STORM DRAIN '23'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'



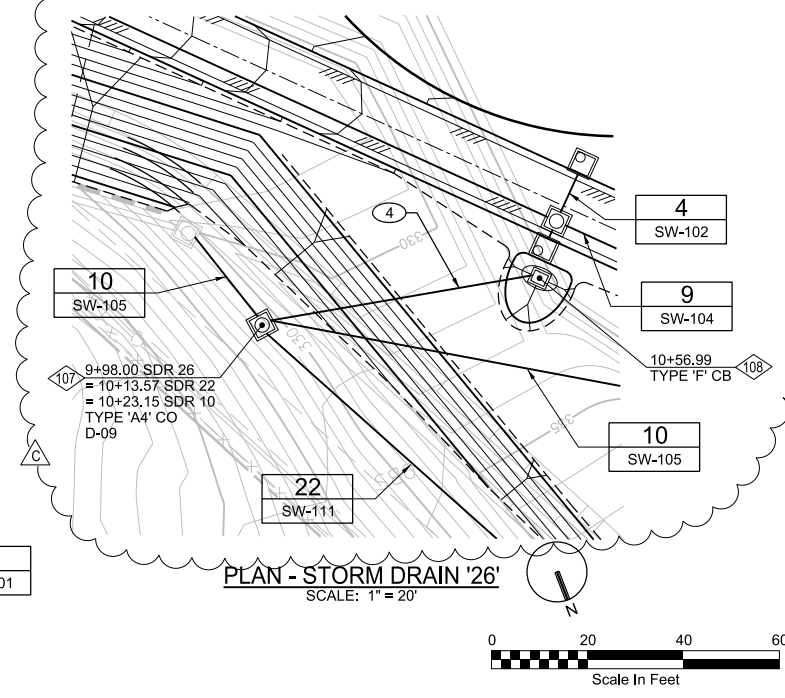
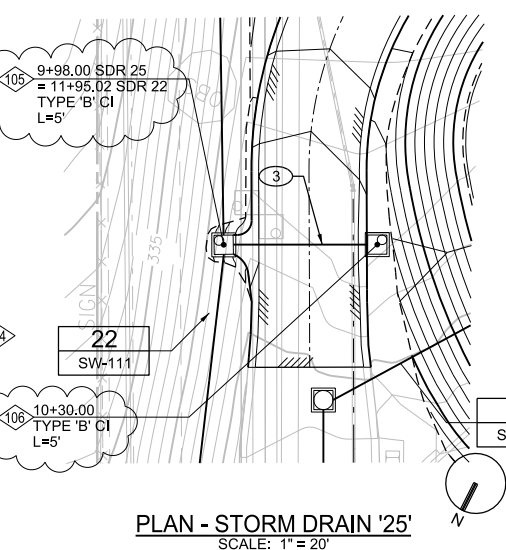
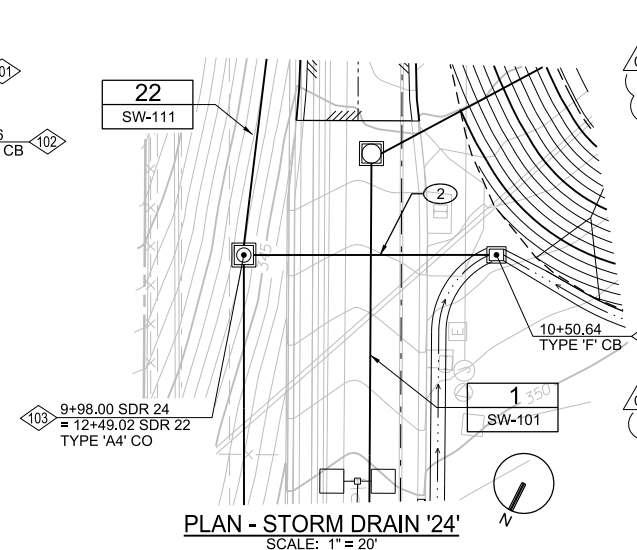
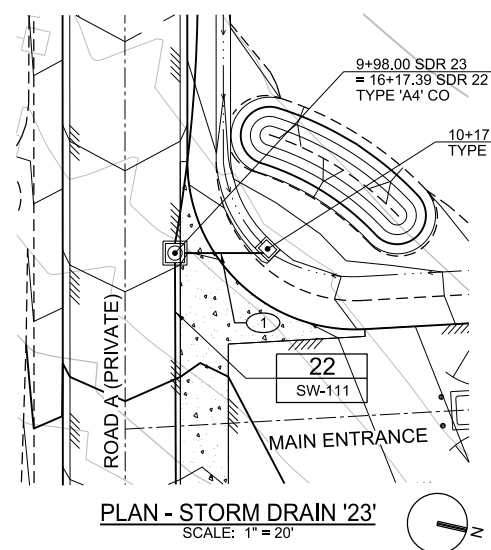
PROFILE - STORM DRAIN '24'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'



PROFILE - STORM DRAIN '25'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'



PROFILE - STORM DRAIN '26'
SCALE: HORIZ. 1" = 20'
VERT. 1" = 4'



NO	DELTA/BEARING	RADIUS	LENGTH	REMARKS
1	N 12°47'35" W	—	16.45'	18" RCP - D-1350
2	N 63°16'16" E	—	49.14'	" " " "
3	N 63°38'54" E	—	28.00'	" " " "
4	N 78°45'36" W	—	55.49'	18" RCP - D-1600

NO	DESCRIPTION	NORTHING	EASTING
101	TYPE 'A4' CO	1901610.11	6270330.61
102	TYPE 'F' CB	1901628.73	6270325.50
103	TYPE 'A4' CO	1901492.66	6270600.05
104	TYPE 'F' CB	1901468.98	6270553.03
105	TYPE 'B' CI	1901442.03	6270618.76
106	TYPE 'B' CI	1901427.80	6270590.10
107	TYPE 'A4' CO	1901280.50	6270701.14
108	TYPE 'F' CB	1901292.12	6270643.65

PK2-SW-112

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

CIVIL STORM DRAINAGE PLAN AND PROFILE

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 114 OF 1169 SHEETS

APPROVED: *Andrea Demich* DATE: 12/03/2020
FOR CITY ENGINEER: *Andrea Demich* DATE: 07/03/21

PRINT DCE NAME: *Andrea Demich* RCE#: *070321*

DESCRIPTION	BY	APPROVED	DATE	FILM
△ Addendum C	CH	<i>Andrea Demich</i>	2/22/21	

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

B-16149, S-17012
WBS B-15142

SUBMITTED BY: **MONIKA SMOCZYNSKI**
PROJECT MANAGER

DESIGNED BY: **THIEN-LONG TRAN**
PROJECT ENGINEER

260-1709
CCS27 COORDINATE
1900-6269
CCS83 COORDINATE

40381-2114-D

CONSULTANT

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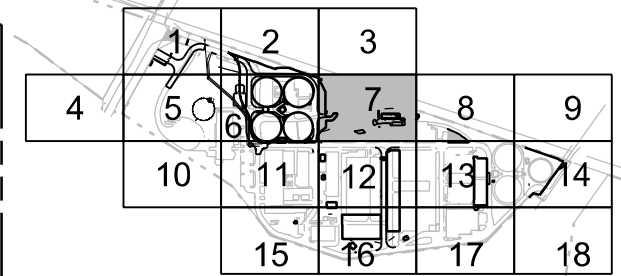
Civil Engineering
Planning
Processing
Surveying

REG. LISTED PROFESSIONAL ENGINEER
KEITH W. HANSEN
NO. 60223
EXP. 6-30-2022
CIVIL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 02/10/2021

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MATCH LINE, NOT USED



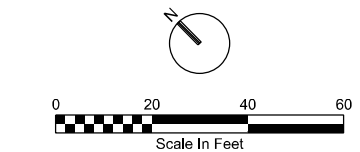
KEYPLAN
NTS

NOTE:

1. 2" PW TO BE CONNECTED TO THE 2" (CU) PW LOCATED IN THE UTILITY TRENCH WITH A TEE. WALL PENETRATION SHALL BE IN ACCORDANCE WITH 4027-620 - SIM. C
2. FOR SDR PIPING INFORMATION, SEE DWG CG-107.
3. INSTALL TEE ONTO EXISTING 6" SS. 3
Y-501
4. EXCAVATION SUPPORT PLAN REQUIRED PER SPECIFICATION 31 41 00. FINAL LOCATIONS, EXTENT OF, AND DESIGN OF SHORING TO BE DETERMINED BY THE CONTRACTOR.
5. FOR SITE ELECTRICAL, SEE DWG ES-107.
6. SDR SIZES NOT CALLED OUT FOR CLARITY.
7. SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.
8. MAINTAIN OPERATION OF FACILITY DURING CONSTRUCTION FOLLOW APPROVED MOPO PLAN.
9. CONTRACTOR SHALL SUPPORT OR TEMPORARILY RELOCATE UTILITIES CROSSING 96-INCH AND 42-INCH LINES DURING TRENCH EXCAVATION. UTILITIES SHALL BE RESTORED TO MATCH EXISTING POST TRENCH EXCAVATION.

PIPING COORDINATE TABLE				
POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
701	6" SS, VERT 45° BEND D	349.07	1900761.72	6270780.51
704	6" SS, VERT 45° BEND U	347.08	1900759.88	6270781.25
705	6" SS, 22.5° BEND	347.08	1900714.37	6270799.64
706	6" SS, 45° BEND	347.08	1900633.50	6270798.93
707	6" SS, 45° VERT BEND U	347.08	1900577.20	6270854.25
708	6" SS, TEE	353.30	1900572.67	6270858.59
709	96" ML, 17° BEND R ROLLED 4.2" U	325.33	1900838.73	6270751.96
713	42" RAS, 17° BEND R ROLLED 2.8" U	335.66	1900835.95	6270744.83
716	42" RAS, 6.6° BEND R ROLLED 5.6" D	342.44	1900701.93	6270780.76
717	2" PW, 90° BEND	359.78	1900607.15	6270855.80
727	NOT USED			
728	NOT USED			
729	NOT USED			
742	8" FPW, 45° BEND	362.59	1900568.56	6270919.43
743	8" FPW, 45° BEND	362.65	1900568.30	6270949.43
744	10" LG, CONNECT TO EXST	356.72	1900713.40	6270902.32
745	10" LG, 45° BEND	357.33	1900698.35	6270910.58
746	10" PD, 22.5° BEND	SP	1900790.11	6270764.04

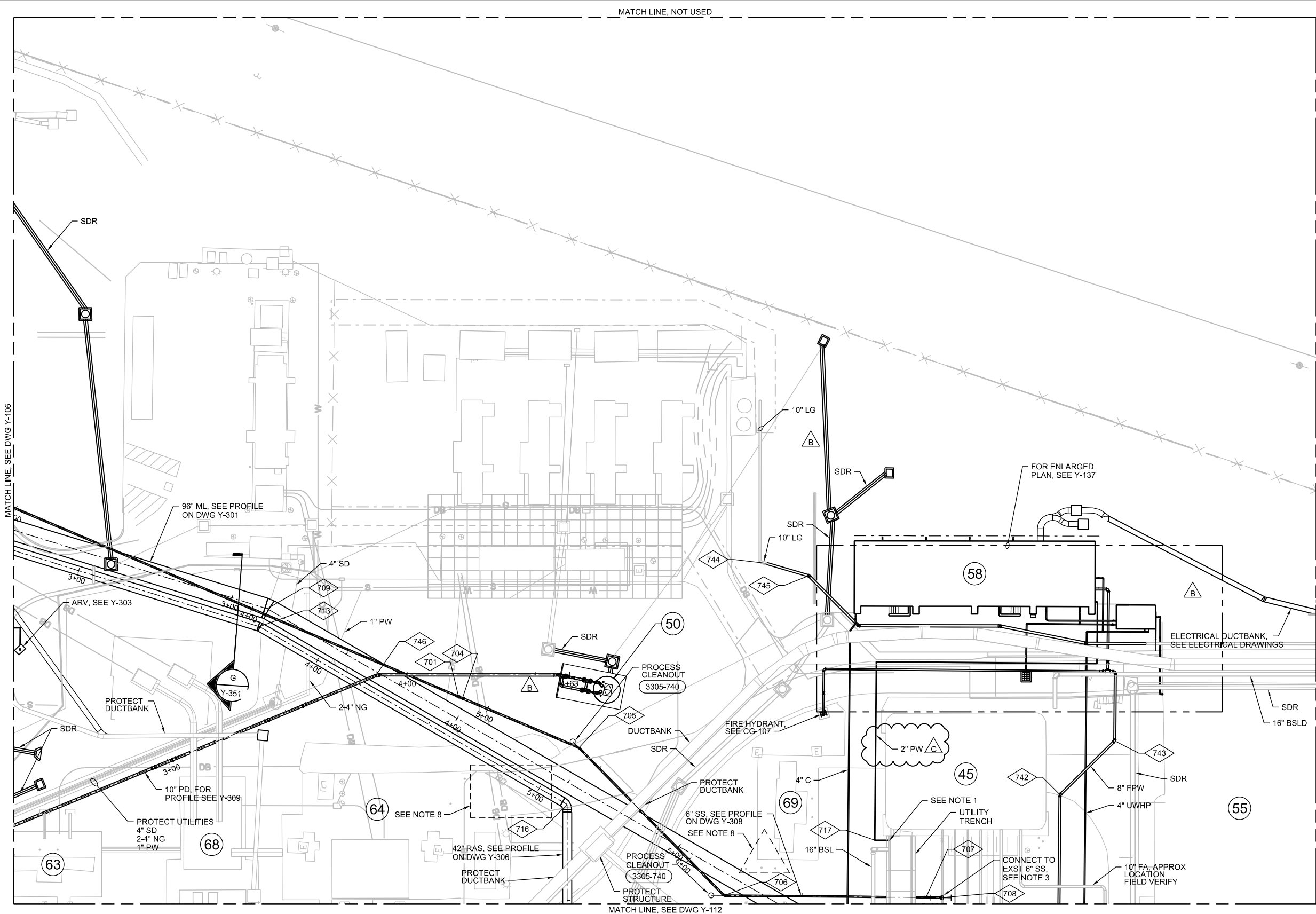
SP = SEE PROFILE



PK2-Y-107

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

YARD PIPING PLAN - AREA 7



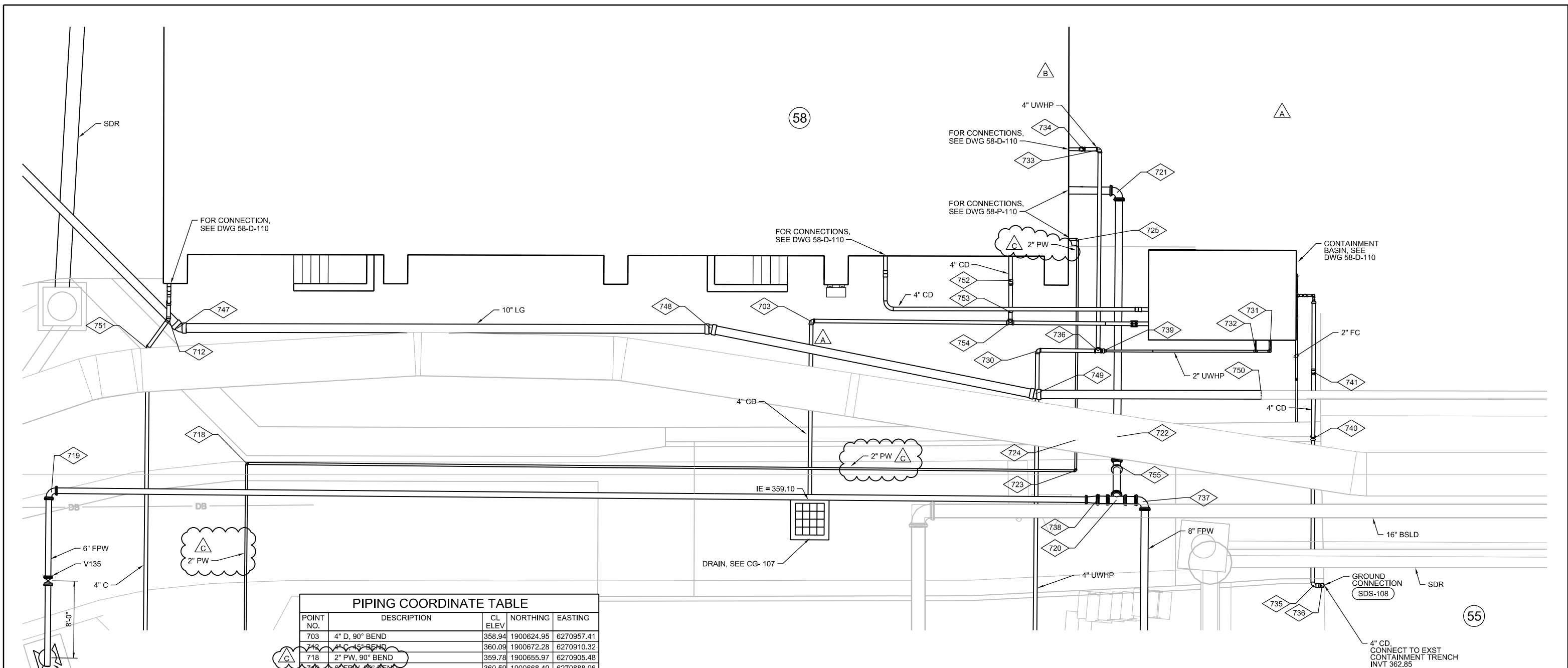
MATCH LINE, SEE DWG Y-112

CONSULTANT

DIGITALLY SIGNED: 02/09/2021

REGISTERED PROFESSIONAL ENGINEER
MATTHEW JOHN BALOW
C 71817
CIVIL
STATE OF CALIFORNIA

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 159 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Matthew Balow</i> FOR CITY ENGINEER Andreas Demich	DATE: 12/03/2020 DATE: 07/03/21	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION	BY	APPROVED
▲ Addendum B	CH	<i>Matthew Balow</i>
▲ Addendum C	CH	<i>Matthew Balow</i>
DATE	DATE	DATE
2/3/21	2/22/21	
FILM	FILM	FILM
DATE STARTED		40381-2159-D
DATE COMPLETED		



PIPING COORDINATE TABLE

POINT NO.	DESCRIPTION	CL ELEV	NORTHING	EASTING
703	4" D, 90° BEND	358.94	1900624.95	6270957.41
713	4" C, 45° BEND	360.09	1900672.28	6270910.32
718	2" PW, 90° BEND	359.78	1900655.97	6270905.48
719	6" FPW, 90° BEND	360.59	1900668.49	6270888.96
720	8" FPW, TEE	362.65	1900589.39	6270966.69
721	8" FPW, 90° BEND	356.86	1900611.90	6270989.60
722	8" FPW, 11.25° VERT BEND	356.82	1900593.99	6270971.36
723	2" PW, 90° BEND	360.77	1900594.55	6270965.84
724	2" PW, 45° VERT BEND	357.59	1900596.78	6270968.11
725	2" PW, 90° BEND	357.59	1900611.37	6270982.97
726	4" UWHP, TEE	357.95	1900601.70	6270976.28
730	4" UWHP, 90° BEND	357.95	1900606.19	6270971.87
731	4" UWHP, 90° BEND U	357.95	1900589.03	6270988.88
732	4"x2" UWHP, TEE	367.00	1900590.09	6270987.82
733	4" UWHP, 90° BEND	357.95	1900616.36	6270991.21
734	4" UWHP, 90° BEND U	357.95	1900617.70	6270989.90
735	4" CD, 90° BEND	355.12	1900568.71	6270974.82
736	4" CD, 90° BEND	355.12	1900568.01	6270975.51
737	8" FPW, 90° BEND	362.65	1900587.29	6270968.76
738	FPW, 8"x6" RDCR	362.65	1900590.81	6270965.30
739	UWHP, 4"x2" RDCR	357.95	1900601.30	6270976.68
740	4" CD, 45° VERT BEND	355.30	1900579.54	6270985.69
741	4" CD, 45° BEND	362.17	1900584.34	6270990.58
747	10" LG, 45° BEND	357.93	1900670.83	6270910.51
748	10" LG, 11.25° BEND	359.75	1900631.76	6270949.42
749	10" LG, 11.25° BEND	360.88	1900603.10	6270968.48
750	10" LG, CONNECT TO EXST	361.66	1900586.48	6270985.04
751	4" C, 45° BEND	358.02	1900671.72	6270906.70
752	4" CD, 45° VERT BEND	361.67	1900613.11	6270974.83
753	4" CD, 45° VERT BEND	358.66	1900611.13	6270972.85
754	4" CD, TEE	358.63	1900610.20	6270971.90
755	8" FPW, 45° VERT BEND	357.42	1900591.85	6270969.19

- NOTE:**
- FOR SDR PIPING INFORMATION, SEE DWG CG-107.
 - NOT USED.
 - SURFACE RESTORATION REQUIRED IN ALL AREAS OF DISTURBED AC.



PK2-Y-137

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

YARD PIPING ENLARGED PLAN

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 173 OF 1169 SHEETS

B-16149, S-17012
WBS B-15142

APPROVED: <i>Andrew Demich</i>	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI		
FOR CITY ENGINEER: Andrew Demich	DATE: 07/03/21	PROJECT MANAGER		
PRINT DCE NAME: Andrew Demich	DATE: 07/03/21	PROJECT ENGINEER: THIEN-LONG TRAN		
DESCRIPTION	BY	APPROVED	DATE	FILM
▲ Addendum A	CH	<i>Andrew Demich</i>	1/15/21	
▲ Addendum B	CH	<i>Andrew Demich</i>	2/3/21	
▲ Addendum C	CH	<i>Andrew Demich</i>	2/22/21	
				260-1709
				CCS27 COORDINATE
				1900-6269
				CCS83 COORDINATE

CONSULTANT

ch2mSM

REGISTERED PROFESSIONAL ENGINEER
C 7181
ANDREW JOHN BALOW
CIVIL
STATE OF CALIFORNIA

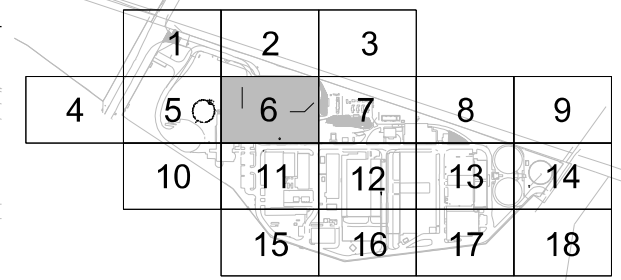
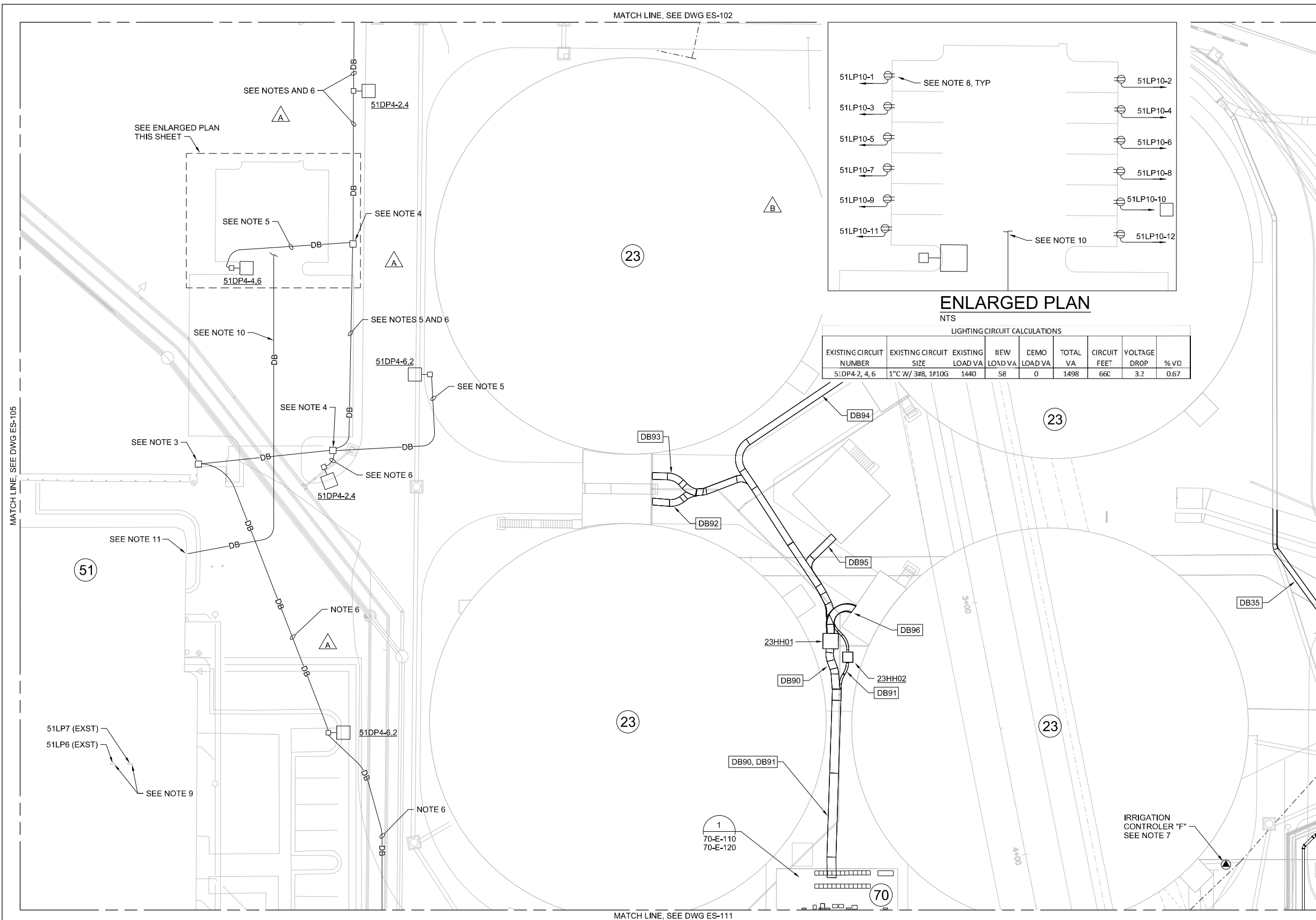
DIGITALLY SIGNED: 02/09/2021

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

WARNING

0 1

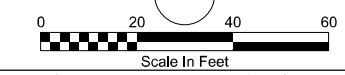
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



KEYPLAN
NTS

- GENERAL NOTES:**
- A. REFER TO THE AREA CLASSIFICATION AND MATERIAL TABLE FOR HAZARDOUS AREA CLASSIFICATION EXTENTS AND MATERIAL SELECTIONS FOR CONDUIT, BOXES AND OTHER ELECTRICAL COMPONENTS, SEE DWG G-061,062.
 - B. SEE DUCTBANK SCHEDULES, DWG ES-401 THRU ES-404
 - C. SEE MANHOLE AND HANDHOLE SCHEDULE, DWG ES-501.
 - D. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700 SERIES.
 - E. SEE PANEL SCHEDULES, SEE DWG E-700 SERIES.
 - F. REFER TO CONSTRUCTION PACKAGE 4 FOR DUCTBANKS AND WORK PERFORMED IN THIS AREA PRIOR TO THE CONSTRUCTION OF PACKAGE 2 WORK.
 - G. CONTRACTOR TO POTHOLE AND FIELD VERIFY ELEVATION OF UTILITIES AND DUCT BANKS PRIOR TO CONSTRUCTION. IF CONFLICT EXISTS, CONTRACTOR IS TO NOTIFY CONSTRUCTION MANAGER.

- NOTES:**
1. NEW FIXTURE TYPE "S2" SEE STANDARD DETAIL (2699-002), SHEET SD-045.
 2. INTERCEPT EXISTING CONDUIT AND INSTALL NEW HANDHOLE. TAP EXISTING CONDUCTORS AND EXTEND AS SHOWN.
 3. EXISTING CONDUIT AND CONDUCTORS TO REMAIN. (2) 1" C, 3#8, 1#10G AND 1" C, 2#8, 1#10G. LOCATE HANDHOLE AND VERIFY CIRCUITS.
 4. NEW HANDHOLE.
 5. 1" C, 2#8, 1#10G TO NEW POLE.
 6. 1" C, 3#8, 1#10G DIRECT BURY.
 7. RECONNECT EXISTING POWER WIRING TO NEW IRRIGATION CONTROLLER.
 8. MOUNT VEHICLE CHARGING RECEPTACLES PER (2605-005A) LOCATE PEDESTAL AT SPECIFIC LOCATION AND HEIGHT AS DIRECTED BY OWNER'S REPRESENTATIVE. TRENCH AND REPAIR SURFACES IN ORDER TO PLACE BURIED CONDUIT. PROVIDE TRAFFIC RATED, FLUSH MOUNTED PULL BOXES AS REQUIRED FOR CONDUIT MANAGEMENT.
 9. EXISTING PANELBOARDS ARE LOCATED ON THE LOWER LEVEL OF THE OPERATIONS BUILDING. FIELD VERIFY EXACT LOCATION.
 10. ROUTE DIRECT BURIED CONDUITS FROM VEHICLE CHARGING STATIONS TO THE OPERATIONS BUILDING. TRENCH AND REPAIR SURFACES IN ORDER TO PLACE DIRECT BURIED CONDUIT. PROVIDE TRAFFIC RATED, FLUSH MOUNTED PULL BOXES AS REQUIRED FOR CONDUIT MANAGEMENT. VEHICLE CHARGING CIRCUITS MAY BE COMBINED INTO FEWER CONDUITS AT CONTRACTOR'S DISCRETION (NO MORE THAN THREE CIRCUITS PER CONDUIT).
 11. EXISTING CART CHARGING CONDUITS FROM PANEL 51LP10 TO BUILDING EXTERIOR SHALL BE REUSED FOR NEW CART CHARGING WIRING. IF EXISTING CONDUITS CANNOT BE REUSED, THEN PENETRATE EXISTING BUILDING WALL SIMILAR TO DETAIL (2605-304) TO AND ROUTE VEHICLE CHARGING CONDUITS TO POWER SOURCES WITHIN BUILDING.
 12. ALL EXTERIOR LIGHTING INSTALLATIONS AND LAMP TYPE SHALL COMPLY WITH CITY OF SAN DIEGO OUTDOOR LIGHTING REGULATION 142.0740



PK2-ES-106

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
**ELECTRICAL
SITE PLAN
AREA 6**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 215 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER DATE: 12/03/2020 PRINT DCE NAME: Andrea Demich RCE#	DATE: 12/03/2020 C79321	SUBMITTED BY: MONIKA SMOczynski PROJECT MANAGER DRAWN BY: THIEN-Long TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Andrea Demich</i>
▲ Addendum B	CH	<i>Andrea Demich</i>
▲ Addendum C	CH	<i>Andrea Demich</i>
		DATE
		1/15/21
		2/3/21
		2/22/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
		40381-2215-D

CONSULTANT

ch2m

WARNING

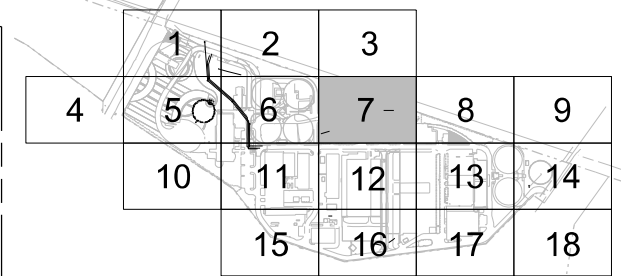
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HARRIS
No. E21673
ELECTRICAL
STATE OF CALIFORNIA

DIGITALLY SIGNED:
02/09/2021

MATCH LINE NOT USED



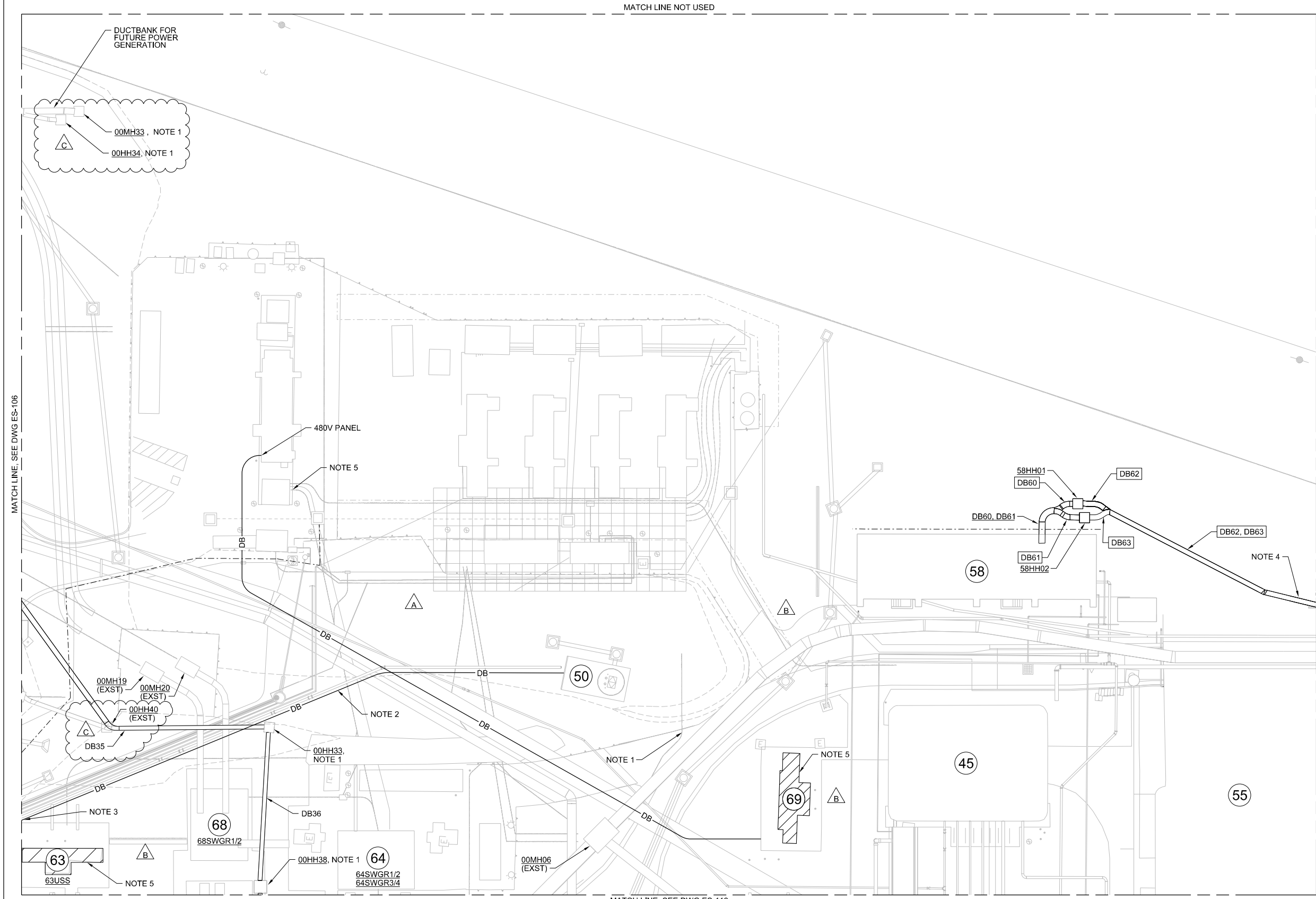
KEYPLAN
NTS

GENERAL NOTES:

- A. REFER TO THE AREA CLASSIFICATION AND MATERIAL TABLE FOR HAZARDOUS AREA CLASSIFICATION EXTENTS AND MATERIAL SELECTIONS FOR CONDUIT, BOXES AND OTHER ELECTRICAL COMPONENTS, SEE DWG G-061,062.
- B. SEE DUCTBANK SCHEDULES, DWG ES-401 THRU ES-404
- C. SEE MANHOLE AND HANDHOLE SCHEDULE, DWG ES-501.
- D. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700 SERIES.
- E. SEE PANEL SCHEDULES, SEE DWG E-700 SERIES.
- F. REFER TO CONSTRUCTION PACKAGE 4 FOR DUCTBANKS AND WORK PERFORMED IN THIS AREA PRIOR TO THE CONSTRUCTION OF PACKAGE 2 WORK.
- G. CONTRACTOR TO POTHOLE AND FIELD VERIFY ELEVATION OF UTILITIES AND DUCT BANKS PRIOR TO CONSTRUCTION. IF CONFLICT EXISTS, CONTRACTOR IS TO NOTIFY CONSTRUCTION MANAGER.

NOTE:

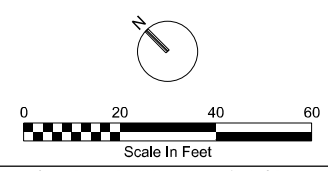
- 1. EQUIPMENT INDICATED, AND ANY ASSOCIATED DUCTBANKS WERE INSTALLED AS PART OF PREVIOUS CONSTRUCTION PACKAGE AND SHOWN AS EXISTING FOR THIS PACKAGE.
- 2. 2" C, 6#10, 16#14, 1#10G 1" C (PVC COATED RGS), 3 TYPE 3.
- 3. ROUTE CABLES BACK TO ELECTRICAL PANELS IN SECONDARY CLARIFIER ELECTRICAL BUILDING 70.
- 4. ROUTE DUCTBANK ALONG TOE OF SLOPE. SEE CG-106 AND CG-107 FOR FINAL GRADE.
- 5. EXISTING CONGENERATION FACILITY IS CURRENTLY POWERED FROM USS-63. PROVIDE NEW RACEWAYS AND POWER TO CONGENERATION FACILITY FROM USS-69, BEING REPLACED AS PART OF THIS CONTRACT. PREPARE AND COMPLETE WORK FOR POWER TRANSFER AS PART OF REPLACEMENT OF AND OUTAGES FOR USS-69 AND USS-63. RACEWAY FOR NEW POWER FEED MAY FOLLOW TRENCH USED FOR NEW PIPELINE.



MATCH LINE - SEE DWG ES-106

MATCH LINE - SEE DWG ES-108

MATCH LINE, SEE DWG ES-112



PK2-ES-107

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
**ELECTRICAL
SITE PLAN
AREA 7**

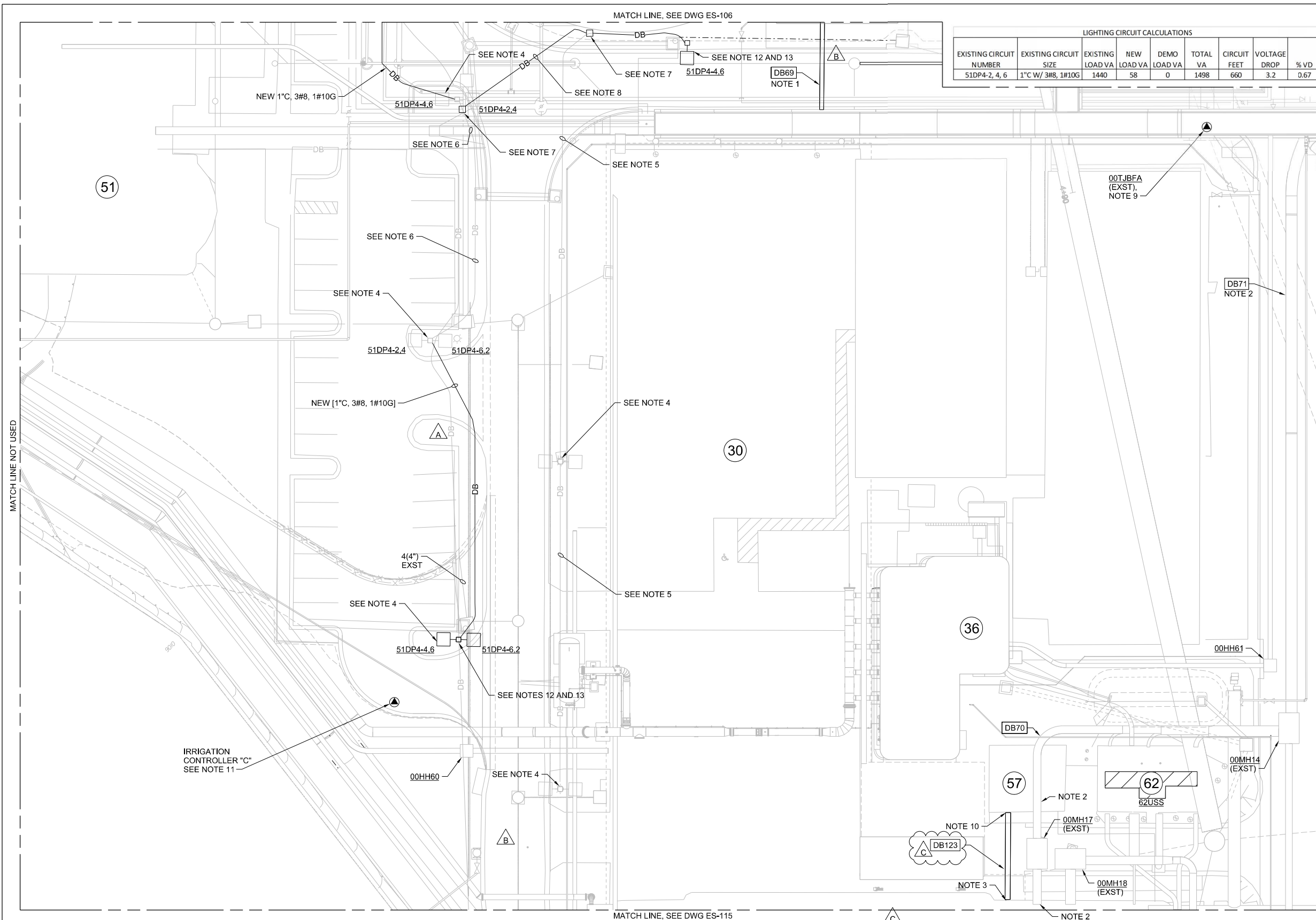
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 216 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C79321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PRINT DCE NAME Andrea Demich	DCE#	DIRECTED BY: THIEN-LONG TRAN PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
DATE	FILM	
△ Addendum A	CH	<i>Andrea Demich</i>
△ Addendum B	CH	<i>Andrea Demich</i>
△ Addendum C	CH	<i>Andrea Demich</i>
		1/15/21
		2/3/21
		2/22/21
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-2216-D
INSPECTOR	DATE COMPLETED	

WARNING
0 1
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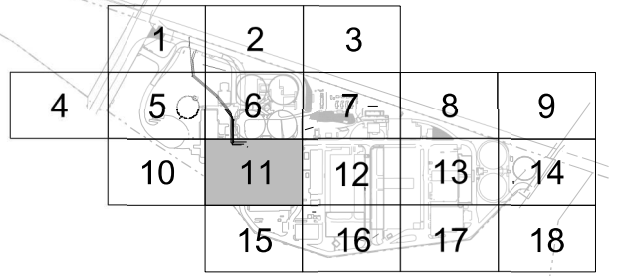
CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HANDEL
No. E21673
ELECTRICAL
STATE OF CALIFORNIA

DIGITALLY SIGNED:
02/09/2021



LIGHTING CIRCUIT CALCULATIONS								
EXISTING CIRCUIT NUMBER	EXISTING CIRCUIT SIZE	EXISTING LOAD VA	NEW LOAD VA	DEMO LOAD VA	TOTAL VA	CIRCUIT FEET	VOLTAGE DROP	% VD
51DP4-2, 4, 6	1\"/>							



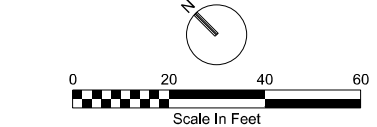
KEYPLAN
NTS

GENERAL NOTES:

- A. REFER TO THE AREA CLASSIFICATION AND MATERIAL TABLE FOR HAZARDOUS AREA CLASSIFICATION EXTENTS AND MATERIAL SELECTIONS FOR CONDUIT, BOXES AND OTHER ELECTRICAL COMPONENTS. SEE DWG G-061,062.
- B. SEE DUCTBANK SCHEDULES, DWG ES-401 THRU ES-404
- C. SEE MANHOLE AND HANDHOLE SCHEDULE, DWG ES-501.
- D. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700 SERIES.
- E. SEE PANEL SCHEDULES, SEE DWG E-700 SERIES.
- F. CONTRACTOR TO POTHOLE AND FIELD VERIFY ELEVATION OF UTILITIES AND DUCT BANKS PRIOR TO CONSTRUCTION. IF CONFLICT EXISTS, CONTRACTOR IS TO NOTIFY CONSTRUCTION MANAGER.

NOTES:

- 1. NEW DUCTBANK FROM UTILITY TRENCH TO FACILITY 70 FOR POWER, FIBER OPTIC, AND FIRE ALARM NETWORK CONNECTIONS.
- 2. UTILIZE EXISTING SPARE CONDUITS IN DUCTBANK FOR NEW POWER FEEDERS TO NEW RECLAIMED WATER PUMP.
- 3. LOCATE NEW JUNCTION BOXES 34PC01 AND 34A01 ON EXTERIOR WALL OF PUMP STATION 34. CORE DRILL WALL FOR NEW CONDUIT PENETRATIONS INTO ELECTRICAL ROOM. FOLLOW EXISTING CONDUIT PATHWAYS IN ELECTRICAL ROOM OVERHEAD SPACE TO ROUTE CONDUITS TO CONTROL ROOM AND OTHER END POINTS AS REQUIRED.
- 4. EXISTING LUMINAIRE AND 30' POLE TO REMAIN.
- 5. EXISTING DIRECT BURY CONDUIT AND CONDUCTORS TO REMAIN. (1\"/>



PK2-ES-111

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL SITE PLAN AREA 11

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 218 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Janet A. Demich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich	DATE: 12/03/2020 C79321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	<i>Janet A. Demich</i>
▲ Addendum B	CH	<i>Janet A. Demich</i>
▲ Addendum C	CH	<i>Janet A. Demich</i>
		DATE
		1/15/21
		2/3/21
		2/22/21
		FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
		40381-2218-D

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HARRIS
No. E21673
ELECTRICAL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 02/09/2021

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DUCTBANK AND CONDUIT ROUTE SCHEDULE						
DUCTBANK/ RACEWAY ID	CONDUIT			TYPE	CONDUIT CONTENT (SEE NOTE 2)	NOTES
	FROM	TO	QUANTITY			
DB31	03MH31	00HH32	6	5	PVC	PULLSTRING RESERVED FOR FUTURE POWER GENERATION FACILITY
DB32	00HH31	00HH32	2	4	PVC	PULLSTRING RESERVED FOR RELOCATED AND FUTURE POWER GENERATION FACILITY. PROVIDE 3-1" INNERDUCTS IN EACH CONDUIT
			1	4	PVC	PULLSTRING RESERVED FOR FUTURE PURE WATER FACILITY COMMUNICATIONS. PROVIDE 3-1" INNERDUCTS IN EACH CONDUIT
			1	4	PVC	00/505 72SWGR0102 PROTECTIVE RELAYING (FUTURE) PROVIDE 3-1" INNERDUCTS IN EACH CONDUIT
DB35	00HH32	00HH33	1	4	PVC	PULLSTRING RESERVED FOR RELOCATED POWER GENERATION FACILITY. PROVIDE 3-1" INNERDUCTS IN EACH CONDUIT
			1	4	PVC	PULLSTRING RESERVED FOR FUTURE PURE WATER FACILITY COMMUNICATIONS. PROVIDE 3-1" INNERDUCTS IN EACH CONDUIT
			1	4	PVC	00/505 72SWGR102 PROTECTIVE RELAYING (FUTURE) PROVIDE 3-1" INNERDUCTS IN EACH CONDUIT
DB60	56HH01	FACILITY 55	1	3	PVC	58/1036
			2	1	PVC	SPARE
			1	3	PVC	58/1036
DB61	58HH02	FACILITY 58	1	3	PVC COATED RGS	58/1037
			1	3	PVC COATED RGS	58/1038
			2	3	PVC	FUTURE FIRE ALARM
			2	1 1/2	PVC COATED RGS	SPARE
DB62	56HH01	FACILITY 55	1	3	PVC	58/1036
			2	1	PVC	SPARE
			1	3	PVC	58/1036
DB63	56HH02	58HH02	1	3	PVC COATED RGS	58/1037
			1	3	PVC COATED RGS	58/1038
			2	3	PVC	FUTURE FIRE ALARM
			2	1 1/2	PVC COATED RGS	SPARE
DB64	56HH01	FACILITY 55	1	3	PVC	58/1036
			2	1	PVC	SPARE
			1	3	PVC	58/1036
DB65	56HH02	FACILITY 55	1	3	PVC COATED RGS	58/1037
			1	3	PVC COATED RGS	58/1038
			2	3	PVC	FUTURE FIRE ALARM
			2	1 1/2	PVC COATED RGS	SPARE
DB66	FACILITY 56	58HH01	1	2	PVC	SPARE
			1	2	PVC	SPARE
			1	2	PVC	SPARE
			1	3	PVC	SPARE
DB67	FACILITY 56	58HH02	1	2	PVC COATED RGS	SPARE
			1	3	PVC COATED RGS	SPARE
DB68	65SW3012	UTILITY TRENCH	3	4	PVC	15/1721
			3	4	PVC	15/1722
			3	4	PVC	15/1723
			3	4	PVC	15/1724
			4	4	PVC	SPARE
DB69	FACILITY 70	UTILITY TRENCH	2	4	PVC	70/1034, 70/1035
			1	2	PVC	00/134
			4	3	PVC	70/1030, 70/031, 70/1032, 70/1033
			2	4	PVC	SPARE
DB70	00MH17	00NH14	1	5	PVC	00/124 EXIST CONDUITS IN DUCT BANK
DB71	00MH14	00NH05	1	5	PVC	00/118 EXIST CONDUITS IN DUCT BANK
DB72	00MH05	64SWGR1	1	5	PVC	00/107 EXIST CONDUITS IN DUCT BANK
DB90	FACILITY 70	23HH01	4	1	PVC	23/1133, 23/1233, 23/1333, 23/1433
			5	1	PVC	23/1019, 23/1134, 23/1234, 23/1334, 23/1434
			4	1 1/2	PVC	23/1135, 23/1235, 23/1335, 23/1435
			12	1 1/2	PVC	23/1136, 23/1137, 23/1138, 23/1236, 23/1237, 23/1236, 23/1336, 23/1337, 23/1337, 23/1338, 23/1436, 23/1437, 23/1438
			4	1	PVC	23/1139, 23/1239, 23/1339, 23/1439
			1	2	PVC	23/1501
			1	2	PVC	23/1502
			4	1	PVC	23/1142, 23/1242, 23/1342, 23/1442
			4	1	PVC	23/1143, 23/1243, 23/1343, 23/1443
			1	1 1/2	PVC	23/1016
DB91	FACILITY 70	23HH02	1	2	PVC COATED RGS	23/1533 SPARES
DB92	CLARIFIER 3	23HH01	1	1	PVC	23/1333
			1	1	PVC	23/1334
			1	1 1/2	PVC	23/1335
			3	1 1/2	PVC	23/1336, 23/1337, 23/1338
			1	1	PVC	23/1339
			1	1	PVC	23/1340
			1	1	PVC	23/1341
			1	1	PVC	23/1342
			1	1	PVC	23/1343
			2	1	PVC	SPARES
DB92	FACILITY 70	23HH02	1	1 1/2	PVC COATED RGS	23/1344

NOTES:

- DEFINITIONS: DB = DUCTBANK CR = CONDUIT ROUTE
- REFER TO CIRCUIT AND RACEWAY SCHEDULE FOR ADDITIONAL CIRCUIT ENDPOINTS AND WIRING DETAILS.

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WARNING



IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT



DIGITALLY SIGNED: 02/09/2021

PK2-ES-401

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL
DUCTBANK SCHEDULE

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 224 OF 1169 SHEETS

APPROVED: *Andrea Demich* DATE: 12/03/2020
FOR CITY ENGINEER: Andrea Demich
PRINT DCE NAME: Andrea Demich
PROJECT: 260-1709
PROJECT ENGINEER: THEN-LONG TRAN
DATE STARTED: 2/22/21
DATE COMPLETED: _____

WBS: B-16149, S-17012
B-15142

CONTRACTOR: _____
INSPECTOR: _____

40381-2224-D

DUCTBANK AND CONDUIT ROUTE SCHEDULE

DUCTBANK/ RACEWAY ID	CONDUIT					CONDUIT CONTENT (SEE NOTE 2)	NOTES
	FROM	TO	QUANTITY	SIZE (INCHES)	TYPE		
DB93	CLARIFIER 1	23HH01	1	1	PVC	23/1133	
			1	1	PVC	23/1134	
			1	1 1/2	PVC	23/1135	
			3	1 1/2	PVC	23/1136, 23/1137, 23/1138	
			1	1	PVC	23/1139	
			1	1	PVC	23/1140	
			1	1	PVC	23/1141	
			1	1	PVC	23/1142	
			1	1	PVC	23/1143	
			2	1	PVC	SPARES	
	23HH02		1	1 1/2	PVC COATED RGS	23/1144	
DB94	CLARIFIER 2	23HH01	1	1	PVC	23/1233	
			1	1	PVC	23/1234	
			1	1 1/2	PVC	23/1235	
			3	1 1/2	PVC	23/1236, 23/1237, 23/1238	
			1	1	PVC	23/1239	
			1	1	PVC	23/1240	
			1	1	PVC	23/1241	
			1	1	PVC	23/1242	
			1	1	PVC	23/1243	
			2	1	PVC	SPARES	
	23HH02		1	1 1/2	PVC COATED RGS	23/1244	
DB95	CENTER INFLUENT DISTRIBUTION STRUCTURE	23HH01	1	1 1/2	PVC	23/1016	
			1	1 1/2	PVC	23/1017	
			1	1 1/2	PVC	23/1018	
			1	1	PVC	23/1019	
	23HH02		1	1	PVC	23/1020	
DB96	CLARIFIER 4	23HH01	1	1	PVC	23/1433	
			1	1	PVC	23/1434	
			1	1 1/2	PVC	23/1435	
			3	1 1/2	PVC	23/1436, 23/1437, 23/1438	
			1	1	PVC	23/1439	
			1	1	PVC	23/1440	
			1	1	PVC	23/1441	
			1	1	PVC	23/1442	
			1	1	PVC	23/1443	
			2	1	PVC	SPARES	
	23HH02		1	1 1/2	PVC COATED RGS	23/1444	
DB117	00MH09	55HH01	1	2	PVC	00/350B	EXST CONDUITS IN DUCTBANKS
			1	2	PVC	00/350A	EXST CONDUITS IN DUCTBANKS
			1	2	PVC	00/347	EXST CONDUITS IN DUCTBANKS
DB118	55HH01	FACILITY 55	1	2	PVC	55/909B	EXST CONDUITS IN DUCTBANKS
			1	2	PVC	55/909A	EXST CONDUITS IN DUCTBANKS
			1	2	PVC	55/900	EXST CONDUITS IN DUCTBANKS
DB119	INTERMEDIATE PUMP	00MH09	1	2	PVC	00/357	EXST CONDUITS IN DUCTBANKS
			1	2	PVC	00/350A	EXST CONDUITS IN DUCTBANKS
			1	2	PVC	00/350B	EXST CONDUITS IN DUCTBANKS
DB120	RS VAULT	01 CONTROL ROOM	1	1	PVC	01/1011	
			1	1	PVC COATED RGS	01/1012	
			1	1	PVC	SPARE	
DB121	63USS	UTILITY TRENCH	2	4	PVC	70/031, 70/033	EXST CONDUITS IN DUCTBANKS
			1	2	PVC	00/34	EXST CONDUITS IN DUCTBANKS
DB122	63USS	UTILITY TRENCH	2	4	PVC	70/030, 70/032	EXST CONDUITS IN DUCTBANKS
DB123	FACILITY 57	FACILITY 34	2	1	PVC COATED RGS	57/1026, 57/2028	
			1	1	PVC	57/1027	
			1	1	PVC	57/1029	
DB124	GUARD SHACK (OLD LOCATION)	GUARD SHACK (RELOCATED)	2	2	PVC	PROVIDE WIRING MATCHING EXISTING SIZE AND TYPE.	QUANTITY AND TYPE OF WIRING TO EXISTING GUARD SHACK IS UNKNOWN. FIELD VERIFY EXISTING WIRING, SPICE AT EXISTING HANDHOLES, AND EXTEND TO NEW GUARD SHACK LOCATION.

- NOTES:
 1. DEFINITIONS: DB = DUCTBANK CR = CONDUIT ROUTE
 2. REFER TO CIRCUIT AND RACEWAY SCHEDULE FOR ADDITIONAL CIRCUIT ENDPOINTS AND WIRING DETAILS.



PK2-ES-402

NCRWP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL
DUCTBANK SCHEDULE

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC UTILITIES DEPARTMENT
 SHEET 225 OF 1169 SHEETS

APPROVED: <i>Andrea Demich</i>	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI
FOR CITY ENGINEER	DATE: 07/03/21	PROJECT MANAGER
PRINT DCE NAME: Andrea Demich	DCE#	DRAWN BY: THIEN-LONG TRAN
DESCRIPTION	BY	APPROVED
△ Addendum C	CH	<i>Andrea Demich</i>
		DATE: 2/22/21
		FIRM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS83 COORDINATE



DIGITALLY SIGNED: 02/09/2021

CONTRACTOR: _____ DATE STARTED: _____
 INSPECTOR: _____ DATE COMPLETED: _____

40381-2225-D

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



CONSULTANT

CIRCUIT AND RACEWAY SCHEDULE								
CIRCUIT ID	CIRCUIT DESCRIPTION	CIRCUIT FROM	CIRCUIT TO	WIRING	OPERATING VOLTAGE	RACEWAY QUANTITY	RACEWAY SIZE (INCHES)	NOTES
FACILITY 11 INTERMEDIATE PUMP STATION								
11/1001	11ASD101 (POWER)	55MCC6505	11ASD101	3#2, 1#8G	480	1	1 1/2	
11/1002	11P101 (POWER)	11ASD101	11JB101P	3#2, 1#8G	480	1	1 1/2	
55/600	11P101 (POWER)	11JB101P	55HH01 (EX)	3#2, 1#8G	480	1	2	NEW CONDUCTORS IN EXISTING CONDUIT
00/347	11P101 (POWER)	55HH01 (EX)	00MH09 (EX)	3#2, 1#8G	480	1	2	NEW CONDUCTORS IN EXISTING CONDUIT
00/357	11P101 (POWER)	00MH09 (EX)	11PBX01 (EX)	3#2, 1#8G	480	1	2	NEW CONDUCTORS IN EXISTING CONDUIT
11/1011	11P101 (POWER)	11PBX01 (EX)	11TJB101	3#2, 1#8G	480	1	2	NEW CONDUCTORS IN EXISTING CONDUIT
11/1010	11P101, 11TSH101, 11XS-1101	11TJB101	11P101	MSC	480	1	2	NEW CABLE IN EXISTING CONDUIT
11/1033	11FSL501 (24VDC CONTROL)	11FSL501	11PBX01 (EX)	3/C#14 TYPE 1	24VDC	1	3/4	
11/1034	11HS101 (120V CONTROL)	11HS101	11TJB101	3/C#14 TYPE 1	120	1	3/4	
11/1035	11TSH101, 11XSH101	11TJB101 (EX)	11PBX01 (EX)	3/C#14 TYPE 1	24VDC	1	3/4	
11/1036	11HS101	11TJB101 (EX)	11PBX01 (EX)	3/C#14 TYPE 1	120	1	3/4	
00/360A	11TSH101, 11XSH101, 11FSL501	11PBX01 (EX)	00MH09 (EX)	2 - 3/C#14 TYPE 1	24VDC	1	2	NEW CABLES IN EXISTING CONDUIT
00/360B	11HS101	11PBX01 (EX)	00MH09 (EX)	3/C#14 TYPE 1	120	1	2	NEW CABLE IN EXISTING CONDUIT
00/350A	11TSH101, 11XSH101, 11FSL501	00MH09 (EX)	55HH01 (EX)	2 - 3/C#14 TYPE 1	24VDC	1	2	NEW CABLES IN EXISTING CONDUIT
00/350E	11HS101	00MH09 (EX)	55HH01 (EX)	3/C#14 TYPE 1	120	1	2	NEW CABLE IN EXISTING CONDUIT
55/909A	11TSH101, 11XSH101, 11FSL501	55HH01 (EX)	11JB101C (EX)	2 - 3/C#14 TYPE 1	24VDC	1	2	NEW CABLES IN EXISTING CONDUIT
55/909E	11HS101	55HH01 (EX)	11JB101C (EX)	3/C#14 TYPE 1	120	1	2	NEW CABLE IN EXISTING CONDUIT
11/1007	11TSH101, 11XSH101	11JB101C (EX)	11ASD101	3/C#14 TYPE 1	24VDC	1	3/4	VIA 55TR09C
11/1008	11HS101	11JB101C (EX)	11ASD101	3/C#14 TYPE 1	120	1	3/4	VIA 55TR09C
11/1005	11FSL501	11JB101C (EX)	55PCM01	3/C#14 TYPE 1	24VDC	1	3/4	VIA 55TR09C AND 55TR11C
11/1010	11FCV508	00TR05A	00TR05A	1 - 4PR TYPE 5	4-20mA	1	3/4	
	11FCV508	00TR05A	00TR04A	1 - 4PR TYPE 5	4-20mA	-	-	
	11FCV508	00TR04A	55TR01A	1 - 4PR TYPE 5	4-20mA	-	-	
55/050	11FCV508	55TR01A	55PCM01	1 - 4PR TYPE 5	4-20mA	1	3	NEW CABLE IN EXISTING CONDUIT
11/005	11P102, 11TSH102, 11XS-1102	11TJB102 (EX)	11P102	MSC	480	1	2	NEW CABLE IN EXISTING CONDUIT
11/006	11P103, 11TSH103, 11XS-1103	11TJB103 (EX)	11P103	MSC	480	1	2	NEW CABLE IN EXISTING CONDUIT
11/007	11P104, 11TSH104, 11XS-1104	11TJB104 (EX)	11P104	MSC	480	1	2	NEW CABLE IN EXISTING CONDUIT
11/008	11P105, 11TSH105, 11XS-1105	11TJB105 (EX)	11P105	MSC	480	1	2	NEW CABLE IN EXISTING CONDUIT
11/1011	11P101, 11P103, 11P105	55PNL02	55MCC6505	3 - 12/C#12 TYPE 2	120	1	1 1/4	
11/1012	11P102, 11P104	55PNL02	55MCC6506	2 - 12/C#12 TYPE 2	120	1	1	
11/1013	11ASD101 (NETWORK)	11ASD101	55PCM01	1 TYPE 3J	-	1	3/4	
11/1014	11ASD102 (NETWORK)	11ASD102	55PCM01	1 TYPE 3J	-	1	3/4	
11/1015	11ASD103 (NETWORK)	11ASD103	55PCM01	1 TYPE 3J	-	1	3/4	
11/1016	11ASD104 (NETWORK)	11ASD104	55PCM01	1 TYPE 3J	-	1	3/4	
11/1017	11ASD105 (NETWORK)	11ASD105	55PCM01	1 TYPE 3J	-	1	3/4	
11/051	11FIT506	11FE506	11FIT506	MSC	1	1	3/4	NEW CABLE IN EXISTING CONDUIT
11/1018	11AIT125 (POWER)	55IP1	11AIT125	2#12, 1#12G	120	1	3/4	
11/1019	11AIT125 (ANALOG)	11AIT125	55PCM01	1 TYPE 3	4-20mA	1	3/4	
11/020	11FSL514 (ANALOG)	11FSL514	55PCM01	1 TYPE 3	4-20mA	1	3/4	
11/021	11FSL515 (ANALOG)	11FSL515	55PCM01	1 TYPE 3	4-20mA	1	3/4	
FACILITY 16 FIRST STAGE BIOREACTOR BASINS								
00/221	15B512 (POWER)	64MCC6403	00M106	3#2/0, #2G	4160	1	4	
00/241	15B512 (POWER)	00MH06	00M107	3#2/0, #2G	4160	1	4	
00/243	15B512 (POWER)	00MH07	15PBX5102	3#2/0, #2G	4160	1	4	
00/257	15PNL510, 15B512, 15PNL530, 15B532 (120V CONTROL)	64MCC6403	00TR02C	4 - 5/C #12 TYPE 1	120	1	2	EXISTING CONDUIT - AERATION BLOWER START COMMANDS / THERMISTERS SYSTEM / TEMPERATURE SWITCH
00/258	15PNL520, 15B522, 15PNL540, 15B542 (120V CONTROL)	64MCC6404	00TR02C	4 - 5/C #12 TYPE 1	120	1	2	EXISTING CONDUIT - AERATION BLOWER START COMMANDS / THERMISTERS SYSTEM / TEMPERATURE SWITCH
15/101	15AI14 (POWER)	15JB114	15A114	3/C#12, #12G TYPE 2	480	1	3/4	
15/102	15AI24 (POWER)	15JB124	15A124	3/C#12, #12G TYPE 2	480	1	3/4	
15/103	15AI34 (POWER)	15JB134	15A134	3/C#12, #12G TYPE 2	480	1	3/4	
15/104	15AI15 (POWER)	15JB115	15A115	3/C#12, #12G TYPE 2	480	1	3/4	
15/105	15AI25 (POWER)	15JB125	15A125	3/C#12, #12G TYPE 2	480	1	3/4	
15/106	15AI35 (POWER)	15JB135	15A135	3/C#12, #12G TYPE 2	480	1	3/4	
15/107	15AI16 (POWER)	15JB116	15A116	3/C#12, #12G TYPE 2	480	1	3/4	
15/108	15AI26 (POWER)	15JB126	15A126	3/C#12, #12G TYPE 2	480	1	3/4	
15/109	15AI36 (POWER)	15JB136	15A136	3/C#12, #12G TYPE 2	480	1	3/4	
15/110	15AI17 (POWER)	15JB117	15A117	3/C#12, #12G TYPE 2	480	1	3/4	
15/111	15AI27 (POWER)	15JB127	15A127	3/C#12, #12G TYPE 2	480	1	3/4	
15/112	15AI37 (POWER)	15JB137	15A137	3/C#12, #12G TYPE 2	480	1	3/4	
15/113	15AI18 (POWER)	15JB118	15A118	3/C#12, #12G TYPE 2	480	1	3/4	
15/114	15AI28 (POWER)	15JB128	15A128	3/C#12, #12G TYPE 2	480	1	3/4	
15/115	15AI38 (POWER)	15JB138	15A138	3/C#12, #12G TYPE 2	480	1	3/4	
15/116	15AI19 (POWER)	15JB119	15A119	3/C#12, #12G TYPE 2	480	1	3/4	



NOTES:

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- WHERE ROUTING INFORMATION LISTS A JUNCTION BOX, THE CONDUIT AND CONDUCTORS SHALL BE ROUTED TO THE JUNCTION BOX AND THEN THE CONDUCTORS SHALL BE COMBINED WITH OTHER CIRCUITS AS DESCRIBED ON THE DUCTBANK AND CONDUIT ROUTING SCHEDULE. WHERE ROUTING DOES NOT LIST A JUNCTION BOX, CONDUCTORS SHALL BE ROUTED TO THE NEAREST HANDHOLE AND COMBINED AS SCHEDULED.

PK2-E-707

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL CIRCUIT AND RACEWAY SCHEDULES

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 240 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142	
APPROVED: <i>Andrea Demich</i>	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER	
FOR CITY ENGINEER: <i>Andrea Demich</i>	DATE: 07/03/21	DRAWN BY: THIEN-LONG TRAN PROJECT ENGINEER	
PRINT DCE NAME: <i>Andrea Demich</i>	DCE#: _____	DESCRIPTION: Addendum C	
BY: _____	APPROVED: <i>Andrea Demich</i>	DATE: 2/22/21	FILM: _____
CONTRACTOR: _____		DATE STARTED: _____	DATE COMPLETED: _____
INSPECTOR: _____		40381-2240-D	

CONSULTANT

ch2mSM

WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DIGITALLY SIGNED:
02/09/2021

CIRCUIT AND RACEWAY SCHEDULE

CIRCUIT ID	CIRCUIT DESCRIPTION	CIRCUIT FROM	CIRCUIT TO	WIRING	OPERATING VOLTAGE	RACEWAY QUANTITY	RACEWAY SIZE (INCHES)	NOTES
16/1058	16A511 (POWER)	16JB319P	16A511	3#12, 1#12G	480	1	3/4	
16/1059	16A319, 16A511 (POWER)	16JB318P	16JB319P	6#12, 2#12G	480	1	1	
16/1060	16A318, 16A319, 16A511 (POWER)	16JB317P	16JB318P	9#12, 3#12G	480	1	1	
16/1061	16A317, 16A318, 16A319, 16A511 (POWER)	20PBX02C	16JB317P	12#12, 4#12G	480	1	1 1/2	
16/1062	16A327 (POWER)	15JB327P	16A327	3#12, 1#12G	480	1	3/4	
16/1063	16A323 (POWER)	15JB328P	16A328	3#12, 1#12G	480	1	3/4	
16/1064	16A323 (POWER)	15JB329P	16A329	3#12, 1#12G	480	1	3/4	
16/1065	16A321 (POWER)	15JB329P	16A521	3#12, 1#12G	480	1	3/4	
16/1066	16A329, 16A521 (POWER)	15JB328P	16JB329P	6#12, 2#12G	480	1	1	
16/1067	16A323, 16A323, 16A521 (POWER)	15JB327P	16JB328P	9#12, 3#12G	480	1	1	
16/1068	16A327, 16A323, 16A329, 16A521 (POWER)	20PBX02C	16JB327P	12#12, 4#12G	480	1	1 1/2	
16/1069	15A111, 16A112, 16A113, 15A114, 16A115, 16A121, 16A122, 16A123, 16A124, 16A125 (POWER)	20PBX01C	20PBX02C	30#12, 10#12G	480	1	3	EXISTING CONDUIT
16/1070	15A116, 16A117, 16A118, 15A119, 16A311, 16A126, 16A127, 16A128, 16A129, 16A321 (POWER)	20PBX01C	20PBX02C	30#12, 10#12G	480	1	3	EXISTING CONDUIT
16/1071	16A312, 16A313, 16A314, 16A315, 16A316, 16A322, 16A323, 16A324, 16A325, 16A326 (POWER)	20PBX01C	20PBX02C	30#12, 10#12G	480	1	3	EXISTING CONDUIT
16/1072	16A317, 16A318, 16A319, 16A511, 16A327, 16A328, 16A329, 16A521 (POWER)	20PBX01C	20PBX02C	24#12, 8#12G	480	1	3	EXISTING CONDUIT
16/1073	16A111, 16A112, 16A113, 16A114, 16A115, 16A121, 16A122, 16A123, 16A124, 16A125 (POWER)	20MCC6601	20PBX01C	30#12, 10#12G	480	1	3	INTERCEPT EXISTING CONDUIT AND ROUTE TO 20MCC6601
16/1074	15A116, 16A117, 16A118, 15A119, 16A311, 16A126, 16A127, 16A128, 16A129, 16A321 (POWER)	20MCC6602	20PBX01C	30#12, 10#12G	480	1	3	INTERCEPT EXISTING CONDUIT AND ROUTE TO 20MCC6602
16/1075	15A312, 16A313, 16A314, 15A315, 16A316, 16A322, 16A323, 16A324, 16A325, 16A326 (POWER)	20MCC6603	20PBX01C	30#12, 10#12G	480	1	3	INTERCEPT EXISTING CONDUIT AND ROUTE TO 20MCC6603
16/1076	15A317, 16A318, 16A319, 15A511, 16A327, 16A328, 16A329, 16A521 (POWER)	20MCC6604	20PBX01C	24#12, 8#12G	480	1	3	INTERCEPT EXISTING CONDUIT AND ROUTE TO 20MCC6604
16/1077	15PNL111 (120V CONTROL)	16JB111C	16PNL111	4#14, 1#14G	120	1	3/4	
16/1078	15PNL112 (120V CONTROL)	16JB112C	16PNL112	4#14, 1#14G	120	1	3/4	
16/1079	15PNL113 (120V CONTROL)	16JB113C	16PNL113	4#14, 1#14G	120	1	3/4	
16/1080	15PNL114 (120V CONTROL)	16JB114C	16PNL114	4#14, 1#14G	120	1	3/4	
16/1081	15PNL115 (120V CONTROL)	16JB115C	16PNL115	4#14, 1#14G	120	1	3/4	
16/1082	15PNL115 (120V CONTROL)	16JB114C	16JB115C	4#14, 1#14G	120	1	1	

NOTES:

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- WHERE ROUTING INFORMATION LISTS A JUNCTION BOX, THE CONDUIT AND CONDUCTORS SHALL BE ROUTED TO THE JUNCTION BOX AND THEN THE CONDUCTORS SHALL BE COMBINED WITH OTHER CIRCUITS AS DESCRIBED ON THE DUCTBANK AND CONDUIT ROUTING SCHEDULE. WHERE ROUTING DOES NOT LIST A JUNCTION BOX, CONDUCTORS SHALL BE ROUTED TO THE NEAREST HANDHOLE AND COMBINED AS SCHEDULED.



PK2-E-723A

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL
CIRCUIT AND RACEWAY
SCHEDULES

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 256A OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER Andreas Demich	DATE: 12/03/2020 C79321	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
DESCRIPTION	BY	APPROVED
△ Addendum C	CH	<i>[Signature]</i>
DATE	DATE	FILM
	2/22/21	
PROJECT ENGINEER: THIEN-LONG TRAN		260-1709
PROJECT ENGINEER:		1900-6269
PROJECT ENGINEER:		40381-2256A-D
CONTRACTOR	DATE STARTED	DATE COMPLETED
INSPECTOR		

CONSULTANT

ch2mSM

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HARRIS
No. E21673
ELECTRICAL
STATE OF CALIFORNIA

DIGITALLY SIGNED:
02/09/2021

CIRCUIT AND RACEWAY SCHEDULE

CIRCUIT ID	CIRCUIT DESCRIPTION	CIRCUIT FROM	CIRCUIT TO	WIRING	OPERATING VOLTAGE	RACEWAY QUANTITY	RACEWAY SIZE (INCHES)	NOTES
25/1033	25FV573 (POWER)	25TJB573P	25FV573	3/C#10, 1#10G TYPE 2	480	1	3/4	
25/1034	25FV574 (POWER)	25TJB573P	25FV574	3/C#10, 1#10G TYPE 2	480	1	3/4	
25/1035	25FV576 (POWER)	25TJB573P	25FV576	3/C#10, 1#10G TYPE 2	480	1	3/4	
25/1036	25FV573 (24VDC CONTROL)	25FV573	25TJB573C1	7/C#14 TYPE 1	24VDC	1	3/4	
25/1037	25FV574 (24VDC CONTROL)	25FV574	25TJB573C1	7/C#14 TYPE 1	24VDC	1	3/4	
25/1038	25FV576 (24VDC CONTROL)	25FV576	25TJB573C1	7/C#14 TYPE 1	24VDC	1	3/4	
25/1039	25FV573 (120V CONTROL)	25FV573	25TJB573C2	5/C#14 TYPE 1	120	1	3/4	
25/1040	25FV574 (120V CONTROL)	25FV574	25TJB573C2	5/C#14 TYPE 1	120	1	3/4	
25/1041	25FV576 (120V CONTROL)	25FV576	25TJB573C2	5/C#14 TYPE 1	120	1	3/4	
25/1042	25FV575 (POWER)	25P2	25FV575	2/C#12, 1#12G TYPE 2	120	1	3/4	VIA EXISTING CABLE TRAY 25TR01P
25/1043	25FV575 (24VDC CONTROL)	25FV575	25TJB573C1	5/C#14 TYPE 1	24VDC	1	3/4	
25/1044	25FV575 (120V CONTROL)	25FV575	25TJB573C2	5/C#14 TYPE 1	120	1	3/4	
25/1045	25LET571 (ANALOG)	25LET571	20PCM03	1 TYPE 3	4-20mA	1	3/4	VIA EXISTING CABLE TRAY 25TR01A
25/1046	25LSH571 (POWER)	25P2	25LSH571	2/C#12, 1#12G TYPE 2	120	1	3/4	VIA EXISTING CABLE TRAY 25TR01P
25/1047	25LSH571 (24VDC CONTROL)	25LSH571	25TJB573C1	3/C#14 TYPE 1	24VDC	1	3/4	
25/1048	25FV573, 25FV574, 25FV575, 25FV576, 25LSH571 (24VDC CONTROL)	25TJB573C1	20PCM03	37/C#14 TYPE 1	24VDC	1	2	VIA EXISTING CABLE TRAY 25TR01C
25/1049	25FV573, 25FV574, 25FV575, 25FV576 (120V CONTROL)	25TJB573C2	20PCM03	19/C#14 TYPE 1	120	1	1 1/2	VIA EXISTING CABLE TRAY 25TR01C
25/1050	25FV578, 25FV579 (POWER)	25DP2	25TJB578(P)	5/C#8, 1#10G TYPE 2	480	1	3/4	VIA EXISTING CABLE TRAY 25TR01P
25/1051	25FV578 (POWER)	25TJB578(P)	25FV578	3/C#10, 1#10G TYPE 2	480	1	3/4	
25/1052	25FV579 (POWER)	25TJB578(P)	25FV579	3/C#10, 1#10G TYPE 2	480	1	3/4	
25/1053	25FV578 (24VDC CONTROL)	25FV578	20PCM03	7/C#14 TYPE 1	24VDC	1	3/4	VIA EXISTING CABLE TRAY 25TR01C
25/1054	25FV578 (120V CONTROL)	25FV578	20PCM03	5/C#14 TYPE 1	120	1	3/4	VIA EXISTING CABLE TRAY 25TR01C
25/1055	25FV579 (24VDC CONTROL)	25FV579	20PCM03	7/C#14 TYPE 1	24VDC	1	3/4	VIA EXISTING CABLE TRAY 25TR01C
25/1056	25FV579 (120V CONTROL)	25FV579	20PCM03	5/C#14 TYPE 1	120	1	3/4	VIA EXISTING CABLE TRAY 25TR01C
FACILITY 25 FILTER EFFLUENT METER STRUCTURE								
25/409	25FCV702 (POWER)	25TJE02(P) EX	25JB702A EX	3/C#10, 1#10G TYPE 2	480	1	3/4	NEW CABLE IN EXISTING CONDUIT
25/410A	25FCV702 (POWER)	25TJE02A EX	25FCV702	3/C#10, 1#10G TYPE 2	480	1	3/4	NEW CABLE IN EXISTING CONDUIT
25/1100	25FCV702 (24VDC CONTROL)	25FCV702	20PCM03	7/C#14 TYPE 1	24VDC	1	3/4	VIA EXISTING CABLE TRAYS 25TR01C, 20TR02C
25/1101	25FCV702 (120V CONTROL)	25FCV702	20PCM03	5/C#14 TYPE 1	120	1	3/4	VIA EXISTING CABLE TRAYS 25TR01C, 20TR02C
25/1102	25FCV702 (ANALOG)	25FCV702	25JB675S	1 TYPE 3	4-20mA	1	3/4	
25/1103	25AIT675, 25AIT676 (POWER)	25P2	25JB675P	4#12, 1#12G	120	1	3/4	
25/1104	25AIT675 (POWER)	25AIT675	25AIT675	2#12, 1#12G	120	1	3/4	
25/1105	25AIT675 (ANALOG)	25AIT675	25JB675S	1 TYPE 3	4-20mA	1	3/4	
25/1106	25AIT676 (POWER)	25AIT676	25JB675P	2#12, 1#12G	120	1	3/4	
25/1107	25AIT676 (ANALOG)	25AIT676	25JB675S	1 TYPE 3	4-20mA	1	3/4	
25/1108	25AIT675, 25AIT676 (ANALOG)	25JB675S	20PCM03	3 TYPE 3	4-20mA	1	1	VIA EXISTING CABLE TRAYS 25TR01A, 20TR01A
FACILITY 25 FLOW METER VAULT								
25/1130	25FET101, 25LSH102 (POWER)	25P1	25JB101P	2-2/C#12, 1#12G TYPE 2	120	1	1	
25/1131	25FET101 (POWER)	25FET101	25JB101P	2/C#12, 1#12G TYPE 2	120	1	3/4	
25/1132	25LSH102 (POWER)	25LSH102	25LSH102	2/C#12, 1#12G TYPE 2	120	1	3/4	
25/1133	25FET101 (ANALOG)	25FET101	20PCM03	1 TYPE 3	4-20mA	1	3/4	
25/1134	25LSH102 (24VDC CONTROL)	25LSH102	20PCM03	3/C#14 TYPE 1	24VDC	1	3/4	
FACILITY 25 COAGULATION								
25/1150	25P211 (POWER)	20MCC660	25P211	3/C#8, 1#10G TYPE 2	480	1	1	VIA EXISTING CABLE TRAY 20TR01P, 25TR01P
25/1151	25PNL211 (24VDC CONTROL)	25PNL211	20MCC660	3/C#14 TYPE 1	24VDC	1	3/4	VIA EXISTING CABLE TRAY 20TR01C, 25TR01C
25/1152	25PNL211 (120V CONTROL)	25PNL211	20MCC660	5/C#14 TYPE 1	120V	1	3/4	VIA EXISTING CABLE TRAY 20TR01C, 25TR01C
25/1153	25P211 (24VDC CONTROL)	20MCC660	20PCM03	7/C#14 TYPE 1	24VDC	1	3/4	
25/1154	25P211 (120V CONTROL)	20MCC660	20PCM03	3/C#14 TYPE 1	120	1	3/4	
25/1155	25P212 (POWER)	20MCC660	25P212	3/C#8, 1#10G TYPE 2	480	1	1	VIA EXISTING CABLE TRAY 20TR01P, 25TR01P
25/1156	25PNL212 (24VDC CONTROL)	25PNL212	20MCC660	3/C#14 TYPE 1	24VDC	1	3/4	VIA EXISTING CABLE TRAY 20TR01C, 25TR01C
25/1157	25PNL212 (120V CONTROL)	25PNL212	20MCC660	5/C#14 TYPE 1	120V	1	3/4	VIA EXISTING CABLE TRAY 20TR01C, 25TR01C
25/1158	25P212 (24VDC CONTROL)	20MCC660	20PCM03	7/C#14 TYPE 1	24VDC	1	3/4	
25/1159	25P212 (120V CONTROL)	20MCC660	20PCM03	3/C#14 TYPE 1	120	1	3/4	
FACILITY 25 FILTER INFLUENT								
25/200	25FCV101 (POWER)	25DP2	25FCV101	3/C#8, 1#10G TYPE 2	480	1	1	VIA EXISTING CABLE TRAY 25TR01P
25/201	25FCV101 (24VDC CONTROL)	25FCV101	20PCM03	3/C#14 TYPE 1	24VDC	1	3/4	VIA EXISTING CABLE TRAY 25TR01C
25/202	25FCV101 (120V ANALOG)	25FCV101	25TJB5C1A	2 TYPE 3	4-20mA	1	1	
25/203	25ME106, 25AIT501 (POWER)	25P1	25JB106P	2-2/C#12, 1#12G TYPE 2	120	1	1	VIA EXISTING CABLE TRAY 25TR01P
25/204	25ME106 (POWER)	25JB106P	25ME106	2/C#12, 1#12G TYPE 2	120	1	3/4	VIA DEDICATED RECEPTACLE
25/205	25AIT501 (POWER)	25AIT501	25AIT501	2/C#12, 1#12G TYPE 2	120	1	3/4	
25/206	25ME106 (120V CONTROL)	25ME106	20PCM03	3/C#14 TYPE 1	120	1	3/4	VIA EXISTING CABLE TRAY 25TR01C
25/207	25AIT501 (ANALOG)	25AIT501	25JB501A	2 TYPE 3	4-20mA	1	1	
25/208	25LET502 (ANALOG)	25LET502	25JB501A	1 TYPE 3	4-20mA	1	3/4	
25/209	25FCV101, 25AIT501, 25LET502 (ANALOG)	25JB501A	20PCM03	5 TYPE 3	4-20mA	1	1 1/2	VIA EXISTING CABLE TRAY 25TR01A

NOTES:

- THIS SCHEDULE LISTS THE CONDUCTOR AND CONDUIT CONNECTIONS FROM EACH INSTRUMENT, DEVICE OR PIECE OF EQUIPMENT TO THE ENDPOINT OR NEAREST JUNCTION BOX. REFER TO ROUTING INFORMATION FOR FURTHER DETAIL AND ALSO THE DUCTBANK AND CONDUIT ROUTING SCHEDULE.
- WHERE ROUTING INFORMATION LISTS A JUNCTION BOX, THE CONDUIT AND CONDUCTORS SHALL BE ROUTED TO THE JUNCTION BOX AND THEN THE CONDUCTORS SHALL BE COMBINED WITH OTHER CIRCUITS AS DESCRIBED ON THE DUCTBANK AND CONDUIT ROUTING SCHEDULE. WHERE ROUTING DOES NOT LIST A JUNCTION BOX, CONDUCTORS SHALL BE ROUTED TO THE NEAREST HANDHOLE AND COMBINED AS SCHEDULED.



PK2-E-741A

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 2 - NORTH CITY WRP EXPANSION
**ELECTRICAL
CIRCUIT AND RACEWAY
SCHEDULES**

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 274A OF 1169 SHEETS

APPROVED: *Andrea Demich* DATE: 12/03/2020
FOR CITY ENGINEER: *Andrea Demich* DATE: 07/03/21
PRINT DCE NAME: *Andrea Demich* RCE#

DESIGNED BY: *Thien-Long Tran*
PROJECT ENGINEER: **THIEN-LONG TRAN**

DESCRIPTION	BY	APPROVED	DATE	FIRM
△ Addendum C	CH	<i>Andrea Demich</i>	2/22/21	

260-1709
CCS27 COORDINATE
1900-6269
CCS83 COORDINATE

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

B-16149, S-17012
WBS B-15142
MONIKA SMOCZYNSKI
PROJECT MANAGER
40381-2274A-D

CONSULTANT

ch2mSM

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DIGITALLY SIGNED: 02/09/2021

CIRCUIT AND RACEWAY SCHEDULE								
CIRCUIT D	CIRCUIT DESCRIPTION	CIRCUIT FROM	CIRCUIT TO	WIRING	OPERATING VOLTAGE	RACEWAY QUANTITY	RACEWAY SIZE (INCHES)	NOTES
30/1061	30P711 (POWER)	34LP2	30P711	2#12, 1#12G	120	1	3/4	
30/1062	30P712 (POWER)	34LP2	30P712	2#12, 1#12G	120	1	3/4	
30/1063	30P713 (POWER)	34LP2	30P713	2#12, 1#12G	120	1	3/4	
30/1064	30P714 (POWER)	34LP2	30P714	2#12, 1#12G	120	1	3/4	
30/1065	30P715 (POWER)	34LP2	30P715	2#12, 1#12G	120	1	3/4	
30/1066	30P716 (POWER)	34LP2	30P716	2#12, 1#12G	120	1	3/4	
30/1067	30G105, 30FV201A, 30FV201B, 30FV201C	30JB105C2	34PCV01	16#14, 1#14G	120	1	3/4	
30/1068	30G105, 30FV202A, 30FV202B, 30FV202C	30JB106C2	34PCV01	16#14, 1#14G	120	1	3/4	
30/1069	30G107, 30FV203A, 30FV203B, 30FV203C	30JB107C2	34PCV01	16#14, 1#14G	120	1	3/4	
30/1070	30HS711 (24VDC CONTROL)	30HS711	30JB105C1	2#14, 1#14G	24VDC	1	3/4	
30/1071	30HS712 (24VDC CONTROL)	30HS712	30JB105C1	2#14, 1#14G	24VDC	1	3/4	
30/1072	30HS713 (24VDC CONTROL)	30HS713	30JB106C1	2#14, 1#14G	24VDC	1	3/4	
30/1073	30HS714 (24VDC CONTROL)	30HS714	30JB106C1	2#14, 1#14G	24VDC	1	3/4	
30/1074	30HS715 (24VDC CONTROL)	30HS715	30JB107C1	2#14, 1#14G	24VDC	1	3/4	
30/1075	30HS716 (24VDC CONTROL)	30HS716	30JB107C1	2#14, 1#14G	24VDC	1	3/4	
30/1076	30HS711, 30HS712, 30G105 (24VDC)	30JB105C1	34PCV01	10#14, 1#14G	24VDC	1	3/4	
30/1077	30HS713, 30HS714, 30G105 (24VDC)	30JB106C1	34PCV01	10#14, 1#14G	24VDC	1	3/4	
30/1078	30HS715, 30HS716, 30G105 (24VDC)	30JB107C1	34PCV01	10#14, 1#14G	24VDC	1	3/4	
30/1079	30LET801	30JB204S	30LET801	1 TYPE 3	4-20mA	1	3/4	
30/1080	30LET802	30JB204S	30LET802	1 TYPE 3	4-20mA	1	3/4	
30/1081	30PNL101	30PNL101	34MCC6201	2#14, 1#14G	24VDC	1	3/4	
30/1082	30PNL102	30PNL102	34MCC6202	2#14, 1#14G	24VDC	1	3/4	
30/1083	30PNL103	30PNL103	34MCC6201	2#14, 1#14G	24VDC	1	3/4	
30/1084	30FV601 (POWER)	34DP1	34FV601	3#12, 1#12G	480	1	3/4	
30/1085	30FV601 (ANALOG)	34DP1	34FV601	2 TYPE 3	24VDC	1	3/4	
30/1086	30FV601 (CONTROL)	34DP1	34FV601	4#14, 1#14G	120	1	3/4	
FACILITY 34 EFFLUENT PUMP STATION								
00/107	34ISX106 (POWER)	64SWG1	00MH05	3#1/0 (5KV), 1#6G	4150	1	5	NEW CONDUCTORS IN EXISTING CONDUIT
00/118	34ISX106 (POWER)	00MH05	00MH14	3#1/0 (5KV), 1#6G	4150	1	5	NEW CONDUCTORS IN EXISTING CONDUIT
00/124	34ISX106 (POWER)	00MH14	00MH17	3#1/0 (5KV), 1#6G	4150	1	5	NEW CONDUCTORS IN EXISTING CONDUIT
00/163	34ISX106 (POWER)	00MH17	34ISX106	3#1/0 (5KV), 1#6G	4150	1	5	NEW CONDUCTORS IN EXISTING CONDUIT
34/1001	34ASD106 (POWER)	34ISX106	34ASD106	4-3#350, 1#1/0G	480	4	2 1/2	
34/1002	34P106 (POWER)	34ASD106	34P106	4-3#350, 1#1/0G	480	4	2 1/2	
34/1003	34PNL116, 34FIT719 (POWER)	34IP1	34JB718P	4#12, 1#12G	120	1	3/4	
34/1003A	34FV736, 34FV718 (POWER)	34LP2	34JB718P	4#12, 1#12G	120	1	3/4	
34/1004	34FIT719 (POWER)	34JB718P	34FIT719	2#12, 1#12G	120	1	3/4	
34/1005	34FV718 (POWER)	34JB718P	34FV718	2#12, 1#12G	120	1	3/4	
34/1006	34PNL115, 34FV736 (POWER)	34JB718P	34JB736P	4#12, 1#12G	120	1	3/4	
34/1007	34PNL116 (POWER)	34JB736P	34PNL116	2#12, 1#12G	120	1	3/4	
34/1008	34FV736 (POWER)	34JB736P	34FV736	2#12, 1#12G	120	1	3/4	
34/1009	34VE106	34F106	34PNL116	1-TYPE 3	4-20mA	1	3/4	
34/1010	34TE106A	34F106	34PNL116	1-TYPE 3	4-20mA	1	3/4	
34/1011	34TE106B	34F106	34PNL116	1-TYPE 3	4-20mA	1	3/4	
34/1012	34FV106	34FV106	34JB106C	2#14, 1#14G	120	1	3/4	
34/1013	34PNL106	34PNL106	34JB106C	6#14, 1#14G	120	1	3/4	
34/1014	34LSL706	34LSL706	34JB106C	2#14, 1#14G	120	1	3/4	
34/1015	34FV106, 34PNL106, 34LSL706 (ASD CONTROL)	34JB106C	34ASD106	10#14, 1#14G	120	1	3/4	
34/1016	34PNL115 (24VDC CONTROL)	34PNL115	34JB106C1	2#14, 1#14G	24VDC	1	3/4	
34/1017	34FV736 (24VDC CONTROL)	34FV736	34JB106C1	4#14, 1#14G	24VDC	1	3/4	
34/1018	34PSH713 (24VDC CONTROL)	34PSH716	34JB106C1	2#14, 1#14G	24VDC	1	3/4	
34/1019	34PNL116, 34FV736, 34PSH716 (24VDC CONTROL)	34JB106C1	34PCV01	8#14, 1#14G	24VDC	1	3/4	
34/1020	34FV736 (120V CONTROL)	34FV736	34PCV01	4#14, 1#14G	120	1	3/4	
34/1021	34PNL115 (ANALOG)	34PNL116	34JB106S	3 TYPE 3	4-20mA	1	3/4	
34/1022	34PT634 (ANALOG)	34PT634	34JB106S	1 TYPE 3	4-20mA	1	3/4	
34/1023	34PNL116, 34PT634 (ANALOG)	34JB106S	34JB718S	4 TYPE 3	4-20mA	1	3/4	
34/1024	34FIT719 (ANALOG)	34FIT719	34JB718S	1 TYPE 3	4-20mA	1	3/4	
34/1025	34FV718 (ANALOG)	34FV718	34JB718S	2 TYPE 3	4-20mA	1	3/4	
34/1026	34PNL116, 34PT634, 34FIT719, 34FV718 (ANALOG)	34JB718S	34PCV01	7 TYPE 3	4-20mA	1	1 1/2	
34/1027	34FIT161, 34FIT162 (POWER)	34P1	34TJB160P	2#10, 1#10G	120	1	3/4	
34/1028	34FIT161 (POWER)	34TJB160P	34FIT161	2#12, 1#12G	120	1	3/4	
34/1029	34FIT162 (POWER)	34TJB160P	34FIT162	2#12, 1#12G	120	1	3/4	
34/1030	34FIT161 (ANALOG)	34FIT161	34JB160S	1 TYPE 3	4-20mA	1	3/4	
34/1031	34FIT162 (ANALOG)	34FIT162	34JB160S	1 TYPE 3	4-20mA	1	3/4	
34/1032	34FCV161 (ANALOG)	34FCV161	34JB160S	2 TYPE 3	4-20mA	1	3/4	
34/1033	34FCV162 (ANALOG)	34FCV162	34JB160S	2 TYPE 3	4-20mA	1	3/4	
34/1034	34FIT161, 34FIT162, 34FCV161, 34FCV162 (ANALOG)	34JB160S	34PCV01	6 TYPE 3	4-20mA	1	1 1/2	
34/1035	34FCV161 (24VDC CONTROL)	34FCV161	34JB160C1	2#14, 1#14G	24VDC	1	3/4	end



NOTES:

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PK2-E-743

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

ELECTRICAL CIRCUIT AND RACEWAY SCHEDULES

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 276 OF 1169 SHEETS

WBS: B-16149, S-17012
B-15142

APPROVED: *Andrea Demich* DATE: 12/03/2020
FOR CITY ENGINEER: Andrea Demich PROJECT MANAGER: MONIKA SMO CZYNSKI

PRINT DCE NAME: Andrea Demich RCE#: PROJECT ENGINEER: THIEN-LONG TRAN

DESCRIPTION	BY	APPROVED	DATE	FIRM
▲ Addendum C	CH	<i>Andrea Demich</i>	2/22/21	

260-1709
CCS27 COORDINATE
1900-6269
CCS83 COORDINATE

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

40381-2276-D

CONSULTANT

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HARRIS
No. E21673
ELECTRICAL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 02/09/2021

CIRCUIT AND RACEWAY SCHEDULE

CIRCUIT ID	CIRCUIT DESCRIPTION	CIRCUIT FROM	CIRCUIT TO	WIRING	OPERATING VOLTAGE	RACEWAY QUANTITY	RACEWAY SIZE (INCHES)	NOTES
34/1036	34FCV162 (24VDC CONTROL)	34FCV162	34JB160C1	2#14, 1#14G	24VDC	1	3/4	start
34/1037	34FV163 (24VDC CONTROL)	34FV163	34JB160C1	6#14, 1#14G	24VDC	1	3/4	
34/1038	34FV164 (24VDC CONTROL)	34FV164	34JB160C1	6#14, 1#14G	24VDC	1	3/4	
34/1039	34FCV161, 34FCV162, 34FV163, 34FV164 (24VDC CONTROL)	34JB160C1	34PCM01	16#14, 1#14G	24VDC	1	3/4	
34/1040	34FV163 (120V CONTROL)	34FV163	34JB160C2	4#14, 1#14G	20	1	3/4	
34/1041	34FV164 (120V CONTROL)	34FV164	34JB160C2	4#14, 1#14G	20	1	3/4	
34/1042	34FV163, 34FV164 (120V CONTROL)	34JB163C2	34PCM01	4#14, 1#14G	20	1	3/4	
34/1043	34FCV161, 34FCV162 (POWER)	34DF1	34TJ31E1P	3#10, 1#10G	480	1	3/4	
34/1044	34FCV161 (POWER)	34TJB161P	34FCV161	3#12, 1#12G	480	1	3/4	
34/1045	34FCV162 (POWER)	34TJB161P	34FCV162	3#12, 1#12G	480	1	3/4	
34/1046	34FV163, 34FV164 (POWER)	34DF1	34TJ31E3P	3#10, 1#10G	480	1	3/4	
34/1047	34FV153 (POWER)	34TJB163P	34FV163	3#12, 1#12G	480	1	3/4	
34/1048	34FV154 (POWER)	34TJB163P	34FV164	3#12, 1#12G	480	1	3/4	
34/538	34PNL113 (24VDC CONTROL)	34PNL113	34PNL103	2#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/238	34PSH713 (24VDC CONTROL)	34PSH713	34PNL103	2#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/244	34FV733 (24VDC CONTROL)	34FV733	34PNL103	4#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/293	34PNL113, 34PSH713, 34FV733 (24VDC CONTROL)	34PNL103	34JB65	8#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/250	34LSL703	34LSL703	34PNL103	2#14, 1#14G	20	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/256	34FV103	34FV103	34PNL103	2#14, 1#14G	20	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/319	34LSL703, 34FV103	34PNL103	34ASD103	4#14, 1#14G	20	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/320	34PNL103	34PNL103	34ASD103	6#14, 1#14G	120	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/1049	34FV733 (120V CONTROL)	34FV733	34JB735C2	4#14, 1#14G	20	1	3/4	
34/539	34PNL114 (24VDC CONTROL)	34PNL114	34PNL104	2#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/239	34PSH714 (24VDC CONTROL)	34PSH714	34PNL104	2#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/245	34FV734 (24VDC CONTROL)	34FV734	34PNL104	4#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/294	34PNL114, 34PSH714, 34FV734 (24VDC CONTROL)	34PNL104	34JB66	8#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/251	34LSL704	34LSL704	34PNL104	2#14, 1#14G	20	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/257	34FV104	34FV104	34PNL104	2#14, 1#14G	20	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/322	34LSL704, 34FV104	34PNL104	34ASD104	4#14, 1#14G	20	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/321	34PNL104	34PNL104	34ASD104	6#14, 1#14G	20	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/1050	34FV734 (120V CONTROL)	34FV734	34JB735C2	4#14, 1#14G	20	1	3/4	
34/299	34PNL113, 34PSH713, 34FV733, 34PNL114, 34PSH714, 34FV734 (24VDC CONTROL)	34JB66	34JB67	16#14, 1#14G	24VDC	1	1 1/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/540	34PNL115 (24VDC CONTROL)	34PNL115	34PNL105	2#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/240	34PSH715 (24VDC CONTROL)	34PSH715	34PNL105	2#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/246	34FV735 (24VDC CONTROL)	34FV735	34PNL105	4#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/295	34PNL115, 34PSH715, 34FV735 (24VDC CONTROL)	34PNL105	34JB67	8#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/252	34LSL705	34LSL705	34PNL105	2#14, 1#14G	120	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/258	34FV105	34FV105	34PNL105	2#14, 1#14G	20	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/323	34LSL705, 34FV105	34PNL105	34ASD105	4#14, 1#14G	20	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/324	34PNL105	34PNL105	34ASD105	6#14, 1#14G	20	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/1051	34FV735 (120V CONTROL)	34FV735	34JB735C2	4#14, 1#14G	20	1	3/4	
34/300	34PNL113, 34PSH713, 34FV733, 34PNL114, 34PSH714, 34FV734, 34PNL115, 34PSH715, 34FV735 (24VDC CONTROL)	34JB66	34JB68	24#14, 1#14G	24VDC	1	1 1/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/301	34PNL113, 34PSH713, 34FV733, 34PNL114, 34PSH714, 34FV734, 34PNL115, 34PSH715, 34FV735 (24VDC CONTROL)	34JB68	34PCM01	24#14, 1#14G	24VDC	1	1 1/4	NEW CONDUCTORS IN EXISTING CONDUIT
34/1052	34FV733, 34FV734, 34FV735 (120V CONTROL)	34JB735C2	34PCM01	12#14, 1#14G	20	1	3/4	
34/1053	34ASD103	34ASD103	34PCM01	1 TYPE 30	-	1	3/4	
34/1054	34ASD104	34ASD104	34PCM01	1 TYPE 30	-	1	3/4	
34/1055	34ASD105	34ASD105	34PCM01	1 TYPE 30	-	1	3/4	
34/1056	34ASD106	34ASD106	34PCM01	1 TYPE 30	-	1	3/4	
34/1057	FIBER OPTIC	FOTC	FACILITY 20	2 FC	-	1	2	
34/1058	FIBER OPTIC	FOTC	FACILITY 20	2 FC	-	1	2	
34/1059	34P106 ESTOP (24VDC CONTROL)	34P106 ESTOP	USS84	3C#14 TYPE 1	24VDC	1	1	

NOTES:

- THIS SCHEDULE LISTS THE CONDUCTOR AND CONDUIT CONNECTIONS FROM EACH INSTRUMENT, DEVICE OR PIECE OF EQUIPMENT TO THE ENDPOINT OR NEAREST JUNCTION BOX. REFER TO ROUTING INFORMATION FOR FURTHER DETAIL AND ALSO THE DUCTBANK AND CONDUIT ROUTING SCHEDULE.
- WHERE ROUTING INFORMATION LISTS A JUNCTION BOX, THE CONDUIT AND CONDUCTORS SHALL BE ROUTED TO THE JUNCTION BOX AND THEN THE CONDUCTORS SHALL BE COMBINED WITH OTHER CIRCUITS AS DESCRIBED ON THE DUCTBANK AND CONDUIT ROUTING SCHEDULE. WHERE ROUTING DOES NOT LIST A JUNCTION BOX, CONDUCTORS SHALL BE ROUTED TO THE NEAREST HANDHOLE AND COMBINED AS SCHEDULED.

PK2-E-744

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL CIRCUIT AND RACEWAY SCHEDULES

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC UTILITIES DEPARTMENT
 SHEET 277 OF 1169 SHEETS

WBS: B-16149, S-17012
 B-15142

APPROVED: *Janice L. Tran* 12/03/2020
 FOR CITY ENGINEER: Andrea Demich DATE: 07/03/21
 PRINT DCE NAME: Andrea Demich DCE#: _____

DESIGNED BY: *Janice L. Tran*
 PROJECT ENGINEER: **MONIKA SMOCZYNSKI**
 PROJECT MANAGER: **THIEN-LONG TRAN**
 PROJECT ENGINEER: **260-1709**
 CCS27 COORDINATE: **1900-6269**
 CCS83 COORDINATE: _____

CONTRACTOR: _____ DATE STARTED: _____
 INSPECTOR: _____ DATE COMPLETED: _____

40381-2277-D

CONSULTANT

ch2mSM

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DIGITALLY SIGNED: 02/09/2021

CIRCUIT AND RACEWAY SCHEDULE

CIRCUIT ID	CIRCUIT DESCRIPTION	CIRCUIT FROM	CIRCUIT TO	WIRING	OPERATING VOLTAGE	RACEWAY QUANTITY	RACEWAY SIZE (INCHES)	NOTES
FACILITY 55 PHOSPHORIC ACID STORAGE AND FEED SYSTEM								
55/089	55LSH802 (CONTROL)	55LSH802	55TJB802(A) (EX)	2#14, 1#14G	120V	-	-	NEW CONDUCTORS IN EXISTING CONDUIT
55/1031	55LSH802 (POWER)	55LSH802	55TJB802(A) (EX)	2#12, 1#12G	120V	-	-	NEW CONDUCTORS IN EXISTING CONDUIT
55/1033	55LSH802 (POWER)	55TJRP02(A) (EX)	55PNL02	2#12, 1#12G	120V	1	3/4	
55/113	55LSH502 (CONTROL)	55LS-4502	55TJB502(A) (EX)	2#14, 1#14G	120V	-	-	NEW CONDUCTORS IN EXISTING CONDUIT
55/1032	55LSH502 (PCWVER)	55LS-4502	55TJB502(A) (EX)	2#12, 1#12G	120V	-	-	NEW CONDUCTORS IN EXISTING CONDUIT
55/1034	55LSH502 (PCWVER)	55TJB502(A) (EX)	55PNL02	2#12, 1#12G	120V	1	3/4	
55/241	55LET801 (ANALOG)	55LET801	55PBX801	1 TYPE 3	4-20mA	1	3/4	NEW CABLE IN EXISTING CONDUIT
55/334	55LET801 (ANALOG)	55FBX801	55TJE801	1 TYPE 3	4-20mA	1	3/4	NEW CABLE IN EXISTING CONDUIT
55/238	55LET501 (ANALOG)	55LET501	55PEX501 (EX)	1 TYPE 3	4-20mA	1	3/4	NEW CABLE IN EXISTING CONDUIT
55/335	55LET501 (ANALOG)	55PBX501 (EX)	55TJE501	1 TYPE 3	4-20mA	1	3/4	NEW CABLE IN EXISTING CONDUIT
55/1001	55LSH801 (ANALOG)	55LS-4801	55TJE801	1 TYPE 3	4-20mA	1	3/4	
55/1002	55LSH801 (ANALOG)	55LS-4501	55TJE801	1 TYPE 3	4-20mA	1	3/4	
55/281	55CS261 (ANALOG)	55CS261	55JB55 (EX)	1 TYPE 3	4-20mA	1	3/4	NEW CABLE IN EXISTING CONDUIT
55/282	55CS262 (ANALOG)	55CS262	55JB55 (EX)	1 TYPE 3	4-20mA	1	3/4	NEW CABLE IN EXISTING CONDUIT
55/285	55CS261, 55CS262 (ANALOG)	55JB55 (EX)	55JB55 (EX)	2 TYPE 3	4-20mA	1	3/4	NEW CABLES IN EXISTING CONDUIT
55/283	55CS263 (ANALOG)	55CS263	55JB55 (EX)	1 TYPE 3	4-20mA	1	3/4	NEW CABLE IN EXISTING CONDUIT
55/286	55CS231, 55CS262, 55CS263 (ANALOG)	55JB55 (EX)	55JB57 (EX)	3 TYPE 3	4-20mA	1	1	NEW CABLES IN EXISTING CONDUIT
55/287	55CS231, 55CS262, 55CS263 (ANALOG)	55JB57 (EX)	55JB55 (EX)	3 TYPE 3	4-20mA	1	1	NEW CABLES IN EXISTING CONDUIT
55/288	55CS261 (ANALOG)	55JB58 (EX)	55JB261A	1 TYPE 3	4-20mA	1	3/4	NEW CABLE IN EXISTING CONDUIT
55/289	55CS262, 55CS263 (ANALOG)	55JB58 (EX)	55JB59 (EX)	2 TYPE 3	4-20mA	1	1	NEW CABLES IN EXISTING CONDUIT
55/290	55CS262 (ANALOG)	55JB59 (EX)	55JB262A	1 TYPE 3	4-20mA	1	3/4	NEW CABLE IN EXISTING CONDUIT
55/291	55CS263 (ANALOG)	55JB59 (EX)	55JB60 (EX)	1 TYPE 3	4-20mA	1	3/4	NEW CABLE IN EXISTING CONDUIT
55/292	55CS263 (ANALOG)	55JB60 (EX)	55JB263A	1 TYPE 3	4-20mA	1	3/4	NEW CABLE IN EXISTING CONDUIT
55/505	55CS261 (ANALOG)	55JB261A	55TJB01A (EX)	1 TYPE 3	4-20mA	1	1 1/2	NEW CABLE IN EXISTING CONDUIT
55/506	55CS262 (ANALOG)	55JB262A	55TJB01A (EX)	1 TYPE 3	4-20mA	1	1 1/2	NEW CABLE IN EXISTING CONDUIT
55/503	55CS263 (ANALOG)	55JB263A	55TJB01A (EX)	1 TYPE 3	4-20mA	1	1 1/2	NEW CABLE IN EXISTING CONDUIT
55/873	55CS231, 55CS262, 55CS263 (ANALOG)	55TJB01A (EX)	55PCM01	4PR TYPE 5	4-20mA	1	2 1/2	NEW CABLE IN EXISTING CONDUIT
55/308	55CS261 (24VDC CONTROL)	55CS261	55JB32 (EX)	6#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
55/312	55CS261 (24VDC CONTROL)	55JB32 (EX)	55JB67 (EX)	6#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
55/316	55CS261 (24VDC CONTROL)	55JB67 (EX)	55B261C1	6#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
55/309	55CS262 (24VDC CONTROL)	55CS262	55JB33 (EX)	6#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
55/313	55CS262 (24VDC CONTROL)	55JB33 (EX)	55JB68 (EX)	6#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
55/317	55CS262 (24VDC CONTROL)	55JB68 (EX)	55B262C1	6#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
55/314	55CS263 (24VDC CONTROL)	55CS263	55JB34 (EX)	6#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
55/318	55CS263 (24VDC CONTROL)	55JB34 (EX)	55JB69 (EX)	6#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
55/318	55CS263 (24VDC CONTROL)	55JB69 (EX)	55JB263C1	6#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
55/509	55CS261 (24VDC CONTROL)	55JB261C1	55TJB01C (EX)	6#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
55/510	55CS262 (24VDC CONTROL)	55JB262C1	55TJB01C (EX)	6#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
55/507	55CS263 (24VDC CONTROL)	55JB263C1	55TJB01C (EX)	6#14, 1#14G	24VDC	1	3/4	NEW CONDUCTORS IN EXISTING CONDUIT
55/874	55CS231, 55CS262, 55CS263 (24VDC CONTROL)	55TJB01C (EX)	55PCM01	19/C#14 TYPE 1	24VDC	1	1 1/4	NEW CABLE IN EXISTING CONDUIT
55/1003	55CS261 (120V CONTROL)	55CS261	55B261C2	3/C#14 TYPE 1	120V	1	3/4	
55/1004	55CS262 (120V CONTROL)	55CS262	55B261C2	3/C#14 TYPE 1	120V	1	3/4	
55/1005	55CS261, 55CS262 (120V CONTROL)	55JB261C2	55B262C2	2 - 3/C#14 TYPE 1	120V	1	1	
55/1006	55CS263 (120V CONTROL)	55CS263	55B262C2	3/C#14 TYPE 1	120V	1	3/4	
55/1007	55CS261, 55CS262, 55CS263 (120V CONTROL)	55JB262C2	55PCM01	3 - 3/C#14 TYPE 1	120V	1	1 1/2	
55/1008	55CS261, 55CS262, 55CS263 (POWER)	55LP2	55JB261P2	3 - 3/C#12, 1#12G TYPE 2	208V	1	1 1/2	
55/1009	55CS263 (POWER)	55JB261P2	55CS263	3/C#12, 1#12G TYPE 2	208V	1	3/4	
55/1010	55CS261, 55CS262 (POWER)	55JB261P2	55JB261P1	2 - 3/C#12, 1#12G TYPE 2	208V	1	1 1/2	
55/1011	55CS262 (POWER)	55JB261P1	55CS262	3/C#12, 1#12G TYPE 2	208V	1	3/4	
55/1012	55CS261 (POWER)	55JB262P1	55CS261	3/C#12, 1#12G TYPE 2	208V	1	3/4	
55/1013	55FET513 (PCWVER)	55P1	55FET513	3/C#12, 1#12G TYPE 2	120V	1	3/4	
55/1014	55FET513 (ANALOG)	55P1	55PCM04	1 TYPE 3	4-20mA	1	3/4	
55/1015	55P111, 55P112 (POWER)	55LP2	55JB111P	2 - 3/C#12, 1#12G TYPE 2	120V	1	3/4	
55/1016	55P111 (POWER)	55JB111P	55P111	3/C#12, 1#12G TYPE 2	120V	1	3/4	VIA DEDICATED RECEPTACLE
55/1017	55P111 (ANALOG)	55P111	55JB111A	1 TYPE 3	4-20mA	1	3/4	
55/1018	55P111 (24VDC CONTROL)	55P111	55B111C1	7/C#14 TYPE 1	24VDC	1	3/4	
55/1019	55PSH511 (24VDC CONTROL)	55PSH511	55B111C1	3/C#14 TYPE 1	24VDC	1	3/4	
55/1020	55P111 (120V CONTROL)	55P111	55B111C2	3/C#14 TYPE 1	120V	1	3/4	
55/1021	55P112 (POWER)	55TJB112F	55P112	3/C#12, 1#12G TYPE 2	120V	1	3/4	VIA DEDICATED RECEPTACLE
55/1022	55P112 (ANALOG)	55P112	55JB112A	1 TYPE 3	4-20mA	1	3/4	
55/1023	55P112 (24VDC CONTROL)	55P112	55B111C1	7/C#14 TYPE 1	24VDC	1	3/4	
55/1024	55PSH512 (24VDC CONTROL)	55PSH512	55B111C1	3/C#14 TYPE 1	24VDC	1	3/4	
55/1025	55P112 (120V CONTROL)	55P112	55B111C2	3/C#14 TYPE 1	120V	1	3/4	
55/1026	55P111, 55P112 (ANALOG)	55JB112A	55PCM04	2 TYPE 3	4-20mA	1	1	
55/1027	55P111, 55P112 (24VDC CONTROL)	55JB111C1	55PCM04	2 - 7/C#14 TYPE 1 2 - 3/C#14 TYPE 1	24VDC	1	2	
55/1028	55P111, 55P112 (120V CONTROL)	55JB111C2	55PCM04	2 - 3/C#14 TYPE 1	120V	1	1	
55/1029	EWS311 (POWER)	55LP2	EWS311	2#12, 1#12G	120V	1	3/4	
55/1030	EWS311	EWS311	55PCM01	1 TYPE 30	-	1	2	



NOTES:

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- WHERE ROUTING INFORMATION LISTS A JUNCTION BOX, THE CONDUIT AND CONDUCTORS SHALL BE ROUTED TO THE JUNCTION BOX AND THEN THE CONDUCTORS SHALL BE COMBINED WITH OTHER CIRCUITS AS DESCRIBED ON THE DUCTBANK AND CONDUIT ROUTING SCHEDULE. WHERE ROUTING DOES NOT LIST A JUNCTION BOX, CONDUCTORS SHALL BE ROUTED TO THE NEAREST HANDHOLE AND COMBINED AS SCHEDULED.

PK2-E-745

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL CIRCUIT AND RACEWAY SCHEDULES

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 278 OF 1169 SHEETS

B-16149, S-17012
WBS B-15142

APPROVED: *Andrea Demich* DATE: 12/03/2020
FOR CITY ENGINEER: *Andrea Demich* DATE: 07/03/21
PRINT DCE NAME: *Andrea Demich* RICE#

DESIGNED BY: *Thien-Long Tran*
PROJECT ENGINEER: **THIEN-LONG TRAN**
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FIRM
△ Addendum C	CH	<i>Andrea Demich</i>	2/22/21	

260-1709
CCS27 COORDINATE
1900-6269
CCS83 COORDINATE

DATE STARTED: _____ DATE COMPLETED: _____
CONTRACTOR: _____ INSPECTOR: _____

40381-2278-D

CONSULTANT

ch2mSM

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HARRIS
No. E21673
ELECTRICAL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 02/09/2021

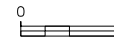
CIRCUIT AND RACEWAY SCHEDULE								
CIRCUIT ID	CIRCUIT DESCRIPTION	CIRCUIT FROM	CIRCUIT TO	WIRING	OPERATING VOLTAGE	RACEWAY QUANTITY	RACEWAY SIZE (INCHES)	NOTES
FACILITY 70 ELECTRICAL BUILDING								
70/1001	70ATS3404	70MCC6304	70ATS1	3#1, 1#8G	480	1	1 1/2	
70/1002	70ATS3405	70MCC6305	70ATS1	3#1, 1#8G	480	1	1 1/2	
70/1003	70DP1	70ATS1	70DP1	3#1, 1#8G	480	1	1 1/2	
70/1004	70-ACU-401-CP	70-ACU-401-CP	70DP1	3#12, 1#12G	480	1	3/4	
70/1005	7C-ACCU-401	70-ACCU-401	70DP1	3#10, 1#10G	480	1	3/4	
70/1006	70-ACU-401 CONTROL	70-ACU-401-CP	70-ACCU-401	EMPTY	N/A	1	1 1/2	SPARE. PROVIDE PULLSTRING
70/1007	70XLP1	70DP1	70XLP1	3#10, 1#10G	480	1	3/4	
70/1008	70XIP1	70DP1	70XIP1	3#10, 1#10G	480	1	3/4	
70/1009	70P1	70XIP1	70P1	4#6, 1#8G	120	1	1	
70/1010	70LPI	70XLP1	70LPI	4#6, 1#8G	120	1	1	
70/1014	70LPS1	70LPI	70LPS1	3#12, 1#12G	120	1	3/4	
70/1015	70LLP1	70JPS1	70LLP1	3#12, 1#12G	120	1	3/4	
70/1016	23PCM01	23PCM01	70LLP1	2#12, 1#12G	120	1	3/4	
70/1017	73FA01	70FA01	70LLP1	2#12, 1#12G	120	1	3/4	
70/1018	70MCC6304/6305 NETWORK (POWER) 1	70MCC6304 / 70MCC6305	70LLP1	2#12, 1#12G	120	1	3/4	
70/1019	70MCC6306/6307 NETWORK (POWER) 2	70MCC6306 / 70MCC6307	70LLP1	2#12, 1#12G	120	1	3/4	
70/1030	70MCC6304 (POWER) FEED	63SWBD2	70MCC6304	3#350K CML 1#4G	480	1	3	ROUTE VIA EXISTING UTILITY TRENCH, SEE SITE PLANS
70/1031	70MCC6305 (POWER) FEED	63SWBD1	70MCC6305	3#350K CML 1#4G	480	1	3	ROUTE VIA EXISTING UTILITY TRENCH, SEE SITE PLANS
70/1032	70MCC6306 (POWER) FEED	63SWBD2	70MCC6306	3#350K CML 1#4G	480	1	3	ROUTE VIA EXISTING UTILITY TRENCH, SEE SITE PLANS
70/1033	70MCC6307 (POWER) FEED	63SWBD1	70MCC6307	3#350K CML 1#4G	480	1	3	ROUTE VIA EXISTING UTILITY TRENCH, SEE SITE PLANS
70/1034	FIBER OPTIC CABLE	23PCM01	20PCM01	6 PAIR MULTIMODE FIBER OPTIC CABLE	N/A	1	4	ROUTE VIA EXISTING UTILITY TRENCH, SEE SITE PLANS
70/1035	FIBER OPTIC CABLE	23PCM01	20PCM01	6 PAIR MULTIMODE FIBER OPTIC CABLE	N/A	1	4	ROUTE VIA EXISTING UTILITY TRENCH, SEE SITE PLANS
70/1036	FIRE ALARM SYSTEM ALARMS	23PCM01	70FA01	4#14	24VDC	1	3/4	
70/1037	FIRE ALARM SYSTEM MODBUS TCP DATALINK	23PCM01	70FA01	1 TYPE 30	--	1	3/4	
70/1038	7C-ACU-401 SHUTDOWN	70-ACU-401-CP	70-FA01	2#14	24VDC	1	3/4	
70/1039	70-ACU-401 ALARM	70-ACU-401-CP	23PCM01	2#14	24VDC	1	3/4	
70/1040	70LPS1 ETHERNET	23PCM01	70LPS1	1 TYPE 30	--	1	3/4	
70/1041	70MCC6305 ETHERNET	23PCM01	70MCC6305	1 TYPE 30	--	1	3/4	
70/1042	70MCC6307 ETHERNET	23PCM01	70MCC6307	1 TYPE 30	--	1	3/4	
70/1043	50P201 (POWER) FEED	70MCC6307	50P201	3#10, 1#10G	480	1	2	COMBINE WITH 50P202 CKTS
70/1044	50P201 (CONTROL) HS, XSH, TSH	70MCC6307	50HS201	8#14, 1#14G	120	1	2	COMBINE WITH 50P202 CKTS
70/1045	50P202 (POWER) FEED	70MCC6306	50P202	3#10, 1#10G	480	1	2	COMBINE WITH 50P201 CKTS
70/1046	50P202 (CONTROL) HS, XSH, TSH	70MCC6306	50HS202	8#14, 1#14G	120	1	2	COMBINE WITH 50P201 CKTS
70/1047	50FET230	23PCM01	50FET230	1 TYPE 3	4-20mA	1	1	COMBINE WITH 70/1048 AND 70/1049
70/1048	50LET240	23PCM01	50LET240	1 TYPE 3	4-20mA	1	1	COMBINE WITH 70/1047 AND 70/1049
70/1049	50LSH250	23PCM01	50LSH250	1 TYPE 3	4-20mA	1	1	COMBINE WITH 70/1047 AND 70/1048

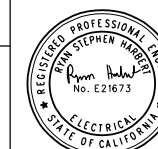
OPERATIONS BUILDING VEHICLE CHARGING								
CIRCUIT ID	CIRCUIT DESCRIPTION	CIRCUIT FROM	CIRCUIT TO	WIRING	OPERATING VOLTAGE	RACEWAY QUANTITY	RACEWAY SIZE (INCHES)	NOTES
51/201	VEHICLE CHARGING	51LP10	RECEPT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS
51/202	VEHICLE CHARGING	51LP10	RECEPT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS
51/203	VEHICLE CHARGING	51LP10	RECEPT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS
51/204	VEHICLE CHARGING	51LP10	RECEPT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS
51/205	VEHICLE CHARGING	51LP10	RECEPT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS
51/206	VEHICLE CHARGING	51LP10	RECEPT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS
51/207	VEHICLE CHARGING	51LP10	RECEPT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS
51/208	VEHICLE CHARGING	51LP10	RECEPT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS
51/209	VEHICLE CHARGING	51LP10	RECEPT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS
51/210	VEHICLE CHARGING	51LP10	RECEPT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS
51/211	VEHICLE CHARGING	51LP10	RECEPT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS
51/212	VEHICLE CHARGING	51LP10	RECEPT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS

NOTES:

- THIS SCHEDULE LISTS THE CONDUCTOR AND CONDUIT CONNECTIONS FROM EACH INSTRUMENT, DEVICE OR PIECE OF EQUIPMENT TO THE ENDPOINT OR NEAREST JUNCTION BOX. REFER TO ROUTING INFORMATION FOR FURTHER DETAIL AND ALSO THE DUCTBANK AND CONDUIT ROUTING SCHEDULE.
- WHERE ROUTING INFORMATION LISTS A JUNCTION BOX, THE CONDUIT AND CONDUCTORS SHALL BE ROUTED TO THE JUNCTION BOX AND THEN THE CONDUCTORS SHALL BE COMBINED WITH OTHER CIRCUITS AS DESCRIBED ON THE DUCTBANK AND CONDUIT ROUTING SCHEDULE. WHERE ROUTING DOES NOT LIST A JUNCTION BOX, CONDUCTORS SHALL BE ROUTED TO THE NEAREST HANDHOLE AND COMBINED AS SCHEDULED.

CIRCUIT AND RACEWAY SCHEDULE								
CIRCUIT ID	CIRCUIT DESCRIPTION	CIRCUIT FROM	CIRCUIT TO	WIRING	OPERATING VOLTAGE	RACEWAY QUANTITY	RACEWAY SIZE (INCHES)	NOTES
SITE POWER DISTRIBUTION								
00/505	72SWGR FIBER OPTICS COMMS TO DCS	72SWGR01/02	20PCM01	2 PAIR FIBER OPTIC	N/A	1	4	

WARNING

 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



DIGITALLY SIGNED: 02/09/2021

CONTRACTOR _____
 INSPECTOR _____

PK2-E-749

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL CIRCUIT AND RACEWAY SCHEDULES

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC UTILITIES DEPARTMENT
 SHEET 282 OF 1169 SHEETS

APPROVED: *Andrea Demich* DATE: 12/03/2020
 FOR CITY ENGINEER: Andrea Demich
 PRINT DCE NAME: Andrea Demich
 PROJECT NO: 12032020
 DATE: 07/03/21

DESIGNED BY: *Thien-Long Tran*
 PROJECT ENGINEER: THIEN-LONG TRAN

DESCRIPTION	BY	APPROVED	DATE	FIRM
△ Addendum A	CH	<i>Andrea Demich</i>	1/15/21	260-1709
△ Addendum C	CH	<i>Andrea Demich</i>	2/22/21	1900-6269

DATE STARTED _____
 DATE COMPLETED _____

40381-2282-D

ELECTRICAL PANELBOARD SCHEDULE													
PANEL: 34DP1 (EXISTING PANEL) VOLTAGE: 480V, PHASE-3, WIRE-3 BUS SIZE: 225A MAIN SIZE: 225A SCCR: 22,000A AVAIL. FAULT CURRENT: 15kA					LOCATION: CL2 CONTACT TANKS & EFFLUENT PUMP STATION MOUNTING: SURFACE FED FROM: 34MCC6201 MAIN TYPE: MCB NOTES								
CIRCUIT TITLE	BREAKER			LOAD, VA PHASE			LOAD, VA PHASE			BREAKER			CIRCUIT TITLE
	CKT NO.	AMP	POLE	A	B	C	A	B	C	POLE	AMP	CKT NO.	
ROLL-UP DOOR 101B OPERATOR	1	20	3	500			10000			3	60	2	PANEL 34LP1 VIA 34XL1
-	3	-	-		500			10000		-	-	4	-
-	5	-	-			500				-	-	6	-
CCT 1 INFLUENT GATE 30G105	7	20	3	500			1500			3	20	8	34FCV161, 34FCV162
-	9	-	-		500			1500		-	-	10	-
-	11	-	-			500			1500	-	-	12	-
CCT 2 INFLUENT GATE 30G106	13	20	3	500			1500			3	20	14	34FV163, 34FV164
-	15	-	-		500			1500		-	-	16	-
-	17	-	-			500			1500	-	-	18	-
CCT 3 INFLUENT GATE 30G107	19	20	3	500			500	500	500	3	20	20	30FV601
-	21	-	-		500			500		-	-	22	-
-	23	-	-			500			500	-	-	24	-
SPACE	25	-	-							-	-	26	SPACE
SPACE	27	-	-							-	-	28	SPACE
SPACE	29	-	-							-	-	30	SPACE
SPACE	31	-	-							-	-	32	SPACE
SPACE	33	-	-							-	-	34	SPACE
SPACE	35	-	-							-	-	36	SPACE
SPACE	37	-	-							-	-	38	SPACE
SPACE	39	-	-							-	-	40	SPACE
SPACE	41	-	-							-	-	42	SPACE
TOTAL LOAD				2000	2030	2000	13500	13530	13500				

NOTES: BOLD INDICATES NEW WORK

PHASE A LOAD (VA) = 15500
PHASE B LOAD (VA) = 15500
PHASE C LOAD (VA) = 15500
TOTAL LOAD (VA) = 46500

56 A

ELECTRICAL PANELBOARD SCHEDULE													
PANEL: 34LP2 (EXISTING PANEL) VOLTAGE: 208/120V, PHASE-3, WIRE-4 BUS SIZE: 225A MAIN SIZE: 100A SCCR: 10,000A AVAIL. FAULT CURRENT: 100A					LOCATION: EFFLUENT PUMP STATION MOUNTING: SURFACE FED FROM: 34MCC6202 (34DP2) VIA 34XL1P2 MAIN TYPE: MCB NOTES								
CIRCUIT TITLE	BREAKER			LOAD, VA PHASE			LOAD, VA PHASE			BREAKER			CIRCUIT TITLE
	CKT NO.	AMP	POLE	A	B	C	A	B	C	POLE	AMP	CKT NO.	
LTS - PUMP ROOM, 24 HOUR	1	20	2	450			540			1	20	2	RCPTS - CHLORINE CONTACT TANKS
-	3	-	-		450			360		1	20	4	RCPTS - CHLORINE CONTACT TANKS
LTS - PUMP ROOM, VIA 34LC1	5	30	2			900			540	1	20	8	RCPTS - CHLORINE CONTACT TANKS
-	7	-	-		900			360		1	20	8	RCPTS - CHLORINE CONTACT TANKS
LTS - PUMP ROOM, VIA 34LC1	9	30	2			1350			540	1	20	10	RCPTS - CHLORINE CONTACT TANKS
-	11	-	-					360		1	20	12	RCPTS - CHLORINE CONTACT TANKS
34FV736	13	20	1	500						1	20	14	SPACE
34FCV718	15	20	1	500						1	20	16	SPACE
34LC1 COIL	17	20	1			200				1	20	18	SPACE
RCPTS - PUMP ROOM	19	20	1	360						1	20	20	SPACE
RCPTS - PUMP ROOM	21	20	1	360						2	30	22	SPACE
RCPTS - PUMP ROOM	23	20	1			540				-	-	24	-
RCPTS - PUMP ROOM	25	20	1	360						2	20	26	SPACE
FINAL EFFLUENT SAMPLER 34ME118	27	20	1			420				-	-	28	-
INFLUENT SAMPLE PUMP 30P711	29	20	1			1000			1200	1	20	30	30FV201A, 30FV201B, 30FV201C
INFLUENT SAMPLE PUMP 30P713	31	20	1	1000					1200	1	20	32	30FV202A, 30FV202B, 30FV202C
INFLUENT SAMPLE PUMP 30P715	33	20	1	1000					1200	1	20	34	30FV203A, 30FV203B, 30FV203C
SPACE	35	-	-						1000	1	20	36	EFFLUENT SAMPLE PUMP 30P712
LTS - EXTERIOR VIA 34LC2	37	20	1	700					1000	1	20	38	EFFLUENT SAMPLE PUMP 30P714
LTS - EXTERIOR VIA 34LC2	39	20	1	490					1000	1	20	40	EFFLUENT SAMPLE PUMP 30P716
34TS1, 34LC2, 34LC3 COIL	41	20	1			100				-	-	42	SPACE
TOTAL LOAD				4270	4570	4090	3100	3100	3100				

NOTES: BOLD INDICATES NEW WORK

PHASE A LOAD (VA) = 7370
PHASE B LOAD (VA) = 7670
PHASE C LOAD (VA) = 7190
TOTAL LOAD (VA) = 22230

62 A

ELECTRICAL PANELBOARD SCHEDULE													
PANEL: 34IP1 (EXISTING PANEL) VOLTAGE: 208/120V, PHASE-3, WIRE-4 BUS SIZE: 100A MAIN SIZE: 90A SCCR: 10,000A AVAIL. FAULT CURRENT: 6000A					LOCATION: CL2 CONTACT TANKS & EFFLUENT PUMP STATION MOUNTING: SURFACE FED FROM: 34MCC6201 VIA 34XP1 MAIN TYPE: MCB NOTES								
CIRCUIT TITLE	BREAKER			LOAD, VA PHASE			LOAD, VA PHASE			BREAKER			CIRCUIT TITLE
	CKT NO.	AMP	POLE	A	B	C	A	B	C	POLE	AMP	CKT NO.	
30AIT503A	1	20	1	50			50			1	20	2	30AIT764A
34PNL101	3	20	1		50			50		1	20	4	34PNL103
34PNL107	5	20	1			50			50	1	20	6	34PNL151
34PNL153	7	20	1	50			50			1	20	8	34PNL165
34PNL201	9	20	1		50			50		1	20	10	57FET541
34FIT633	11	20	1			50			50	1	20	12	57FET542
SPACE	13	-	-				50			1	20	14	57FET543
34PNL116	15	20	1	50						1	20	16	SPACE
34FIT719	17	20	1			50						18	SPACE
30FET204, 30AIT701A, 30AIT701B	19	20	1	150						20		20	SPACE
30FET205, 30AIT702A, 30AIT702B	21	20	1		150					22		22	SPACE
30FET206, 30AIT703A, 30AIT703B	23	20	1			150				24		24	SPACE
34FIT161, 34FIT162	25	20	1	100						26		26	SPACE
SPACE	27	-	-							28		28	SPACE
SPACE	29	-	-							30		30	SPACE
SPACE	31	-	-							32		32	SPACE
SPACE	33	-	-							34		34	SPACE
SPACE	35	-	-							36		36	SPACE
34UPS PCM ROOM	37	30	3	2000						38		38	SPACE
-	39	-	-			2000				40		40	SPACE
-	41	-	-			2000				42		42	SPACE
TOTAL LOAD				2350	2300	2300	150	100	100				

NOTES: BOLD INDICATES NEW WORK

PHASE A LOAD (VA) = 2500
PHASE B LOAD (VA) = 2490
PHASE C LOAD (VA) = 2430
TOTAL LOAD (VA) = 7330

20 A

ELECTRICAL PANELBOARD SCHEDULE													
PANEL: 55LP2 (EXISTING PANEL) VOLTAGE: 208/120V, PHASE-3, WIRE-4 BUS SIZE: 225A MAIN SIZE: 125A SCCR: 10,000A AVAIL. FAULT CURRENT: 1400A					LOCATION: AERATION ODOR SCRUBBER MOUNTING: SURFACE FED FROM: 55MCC6504 (55DP2) VIA 55X1P2 MAIN TYPE: MCB NOTES								
CIRCUIT TITLE	BREAKER			LOAD, VA PHASE			LOAD, VA PHASE			BREAKER			CIRCUIT TITLE
	CKT NO.	AMP	POLE	A	B	C	A	B	C	POLE	AMP	CKT NO.	
LTS - STAIR NO. 1	1	20	1				540			1	20	2	RCPTS - BLOWER GALLERY
15LC1 COIL	3	20	1					540		1	20	4	RCPTS - BLOWER GALLERY
LTS - BLOWER GALLERY 24 HOUR	5	30	2			600			540	1	20	6	RCPTS - BLOWER GALLERY
-	7	-	-		600					1	20	8	RCPTS - BLOWER GALLERY
LTS - BLOWER GALLERY VIA 15LC1	9	30	2			1200				1	20	10	SPACE
-	11	-	-				1200			1	20	12	SPACE
LTS - BLOWER GALLERY VIA 15LC1	13	30	2	1350			200			1	20	14	15FS-30 (SSH-1)
-	15	-	-				1350			1	20	16	SPACE
SPACE	17	30	2							1	20	18	SPACE
-	19	-	-							-	-	20	SPACE
SPACE	21	20	1					50		1	20	22	55LH502
SPACE	23	20	1						50	1	20	24	55LH602
LTS - MECHANICAL ROOM	25	20	1	180			200			1	20	26	55S311 (TOUCHSCREEN)
RCPTS - MECHANICAL ROOM	27	20	1					500		1	20	28	RCPT - 55P111
SPACE	29	-	-						500	1	20	30	RCPT - 55P112
SPACE	31	-	-					500		2	20	32	55CS261
SPACE	33	-	-					500		-	-	34	-
SPACE	35	-	-						500	2	20	36	55CS262
SPACE	37	-	-					500		-	-	38	-
SPACE	39	-	-						500	2	20	40	55CS263
SPACE	41	-	-							-	-	42	-
TOTAL LOAD				2130	2550	1922	2480	2090	2090				

NOTES: BOLD INDICATES NEW WORK

PHASE A LOAD (VA) = 4610
PHASE B LOAD (VA) = 4640
PHASE C LOAD (VA) = 4012
TOTAL LOAD (VA) = 13262

37 A

PK2-E-756

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL PANELBOARD SCHEDULES

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 289 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER DATE: 12/03/2020 PRINT DCE NAME: Andrea Demich RCE#	DATE: 12/03/2020 RCE#	SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER THIEN-LONG TRAN PROJECT ENGINEER 260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE
DESCRIPTION	BY	APPROVED
△ Addendum C	CH	<i>Andrea Demich</i>
DATE	DATE	DATE

ELECTRICAL PANELBOARD SCHEDULE

PANEL: 55P1 (EXISTING PANEL)
 VOLTAGE: 208/120V, PHASE:3, WIRE:4
 BUS SIZE: 100A
 MAIN SIZE: 60A
 SCCR: 10,000A
 AVAIL. FAULT CURRENT: 1500A

LOCATION: CHEMICAL BUILDING (AERATION BASINS)
 MOUNTING: SURFACE
 FED FROM: 55MCC6503 VIA 55XP1
 MAIN TYPE: MCB
 NOTES:

CIRCUIT TITLE	BREAKER			LOAD, VA PHASE			LOAD, VA PHASE			BREAKER			CIRCUIT TITLE
	CKT NO.	AMP	POLE	A	B	C	A	B	C	POLE	AMP	CKT NO.	
SPACE	1						50				15	2	11A1T125
SPACE	2											3	SPACE
55FET513	3	15	1									4	SPACE
SPACE	4											5	SPACE
SPACE	5											6	SPACE
SPACE	6											7	SPACE
SPACE	7											8	SPACE
SPACE	8											9	SPACE
SPACE	9											10	SPACE
SPACE	10											11	SPACE
SPACE	11											12	SPACE
SPACE	12											13	SPACE
SPACE	13											14	SPACE
SPACE	14											15	SPACE
SPACE	15											16	SPACE
SPACE	16											17	SPACE
SPACE	17											18	SPACE
SPACE	18											19	SPACE
SPACE	19											20	SPACE
SPACE	20											21	SPACE
SPACE	21											22	SPACE
SPACE	22											23	SPACE
SPACE	23											24	SPACE
SPACE	24											25	SPACE
SPACE	25											26	SPACE
SPACE	26											27	SPACE
SPACE	27											28	SPACE
SPACE	28											29	SPACE
SPACE	29											30	SPACE
SPACE	30											31	SPACE
SPACE	31											32	SPACE
SPACE	32											33	SPACE
SPACE	33											34	SPACE
SPACE	34											35	SPACE
SPACE	35											36	SPACE
SPACE	36											37	SPACE
SPACE	37											38	SPACE
SPACE	38											39	SPACE
SPACE	39											40	SPACE
SPACE	40											41	SPACE
SPACE	41											42	SPACE
TOTAL LOAD				0	0	50	50	0	0				

NOTES: BOLD INDICATES NEW WORK

PHASE A LOAD (VA) = 50
 PHASE B LOAD (VA) = 0
 PHASE C LOAD (VA) = 50
 TOTAL LOAD (VA) = 100 0 A

ELECTRICAL PANELBOARD SCHEDULE

PANEL: 58LP1
 VOLTAGE: 208/120V, PHASE:3, WIRE:4
 BUS SIZE: 125A
 MAIN SIZE: 60A
 SCCR: 10,000A
 AVAIL. FAULT CURRENT: 700A

LOCATION: CARBON CHEMICAL FACILITY
 MOUNTING: SURFACE
 FED FROM: 55MCC6506 (58DP1) VIA 58X P1
 MAIN TYPE: MCB
 NOTES:

CIRCUIT TITLE	BREAKER			LOAD, VA PHASE			LOAD, VA PHASE			BREAKER			CIRCUIT TITLE
	CKT NO.	AMP	POLE	A	B	C	A	B	C	POLE	AMP	CKT NO.	
LIGHTS	1	20	1	1200			180				20	2	RECEPTACLE
LIGHTS	3	20	1		1200			130			20	4	RECEPTACLE
LIGHTS	5	20	1			1200			160		20	6	RECEPTACLE
EXTERIOR LIGHTS	7	20	1	120			180				20	8	RECEPTACLE
58ZS211	9	20	1		50			130			20	10	RECEPTACLE
58ZS312	11	20	1			50			160		20	12	RECEPTACLE
58LET111	13	20	1	50							20	14	SPARE
58LET112	15	20	1		50						20	16	SPARE
58LET113	17	20	1			50					20	18	SPARE
58LET114	19	20	1	50							20	20	SPARE
58FT622	21	20	1		50						20	22	SPARE
58FCV622	23	20	1			200					20	24	SPARE
58ZS211, 58ZS312 (SAFETY SHOWERS)	25	20	1	100							20	26	SPARE
EWS312 (TOUCHSCREEN)	27	20	1		200						20	28	SPARE
SPARE	29	20	1								20	30	SPARE
SPACE	31											32	SPACE
SPACE	33											34	SPACE
SPACE	35											36	SPACE
SPACE	37											38	SPACE
SPACE	39											40	SPACE
SPACE	41											42	SPACE
TOTAL LOAD				1520.0	1550.0	1500.0	360.0	360.0	360.0				

PHASE A LOAD (VA) = 1880
 PHASE B LOAD (VA) = 1910
 PHASE C LOAD (VA) = 1860
 TOTAL LOAD (VA) = 5650 13 A

ELECTRICAL PANELBOARD SCHEDULE

PANEL: 58DP1
 VOLTAGE: 480V, PHASE:3, WIRE:3
 BUS SIZE: 225A
 MAIN SIZE: 225A
 SCCR: 65,000A
 AVAIL. FAULT CURRENT: 15kA

LOCATION: CARBON CHEMICAL FACILITY
 MOUNTING: SURFACE
 FED FROM: 55MCC6506
 MAIN TYPE: MCB
 NOTES:

CIRCUIT TITLE	BREAKER			LOAD, VA PHASE			LOAD, VA PHASE			BREAKER			CIRCUIT TITLE
	CKT NO.	AMP	POLE	A	B	C	A	B	C	POLE	AMP	CKT NO.	
58P171	1	15	3				1880				30	2	TRANSFORMER 58XLP (15KVA)
58P171 CARBON TRANSFER PUMP 1 (1.5HP)	3	-	-	860				1910			-	4	-
58P172	5	-	-			860			1360		-	6	-
58P172 CARBON TRANSFER PUMP 2 (1.5HP)	7	15	3	860							20	8	SPARE
SPARE	9	-	-		860						-	10	-
SPARE	11	-	-			860					-	12	-
SPARE	13	20	3								3	14	SPARE
SPARE	15	-	-								-	16	-
SPARE	17	-	-								-	18	-
SPARE	19	20	3								3	20	SPARE
SPARE	21	-	-								-	22	-
SPARE	23	-	-								-	24	-
SPARE	25	20	3								3	26	SPARE
SPARE	27	-	-								-	28	-
SPARE	29	-	-								-	30	-
WATER HEATER 58WH01	31	175	3	38000							-	32	SPACE RESERVED, WTR HTR BREAKER
SPARE	33	-	-		36000						-	34	SPACE RESERVED, WTR HTR BREAKER
SPARE	35	-	-			36000					-	36	SPACE RESERVED, WTR HTR BREAKER
SPARE	37	-	-								-	38	SPACE
SPARE	39	-	-								-	40	SPACE
SPARE	41	-	-								-	42	SPACE
TOTAL LOAD				37720	37720	37720	1880	1910	1860				

PHASE A LOAD (VA) = 39600
 PHASE B LOAD (VA) = 39650
 PHASE C LOAD (VA) = 39550
 TOTAL LOAD (VA) = 118810 143 A

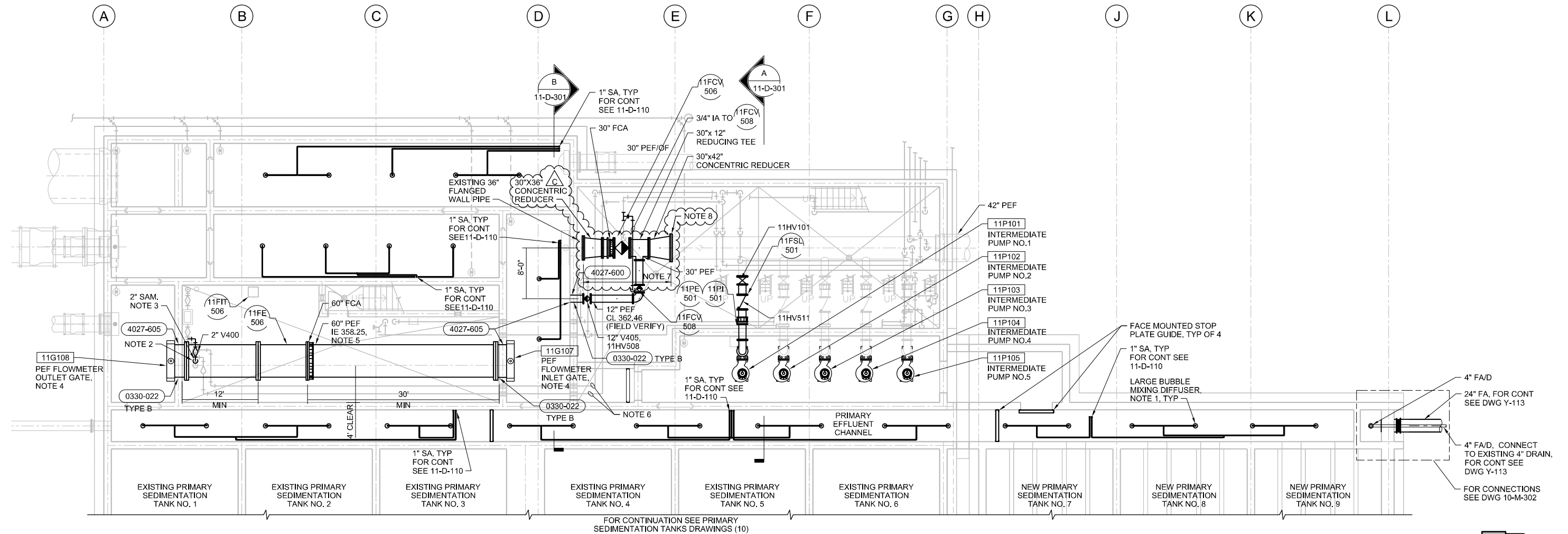
ELECTRICAL PANELBOARD SCHEDULE

PANEL: 70DP1
 VOLTAGE: 480V, PHASE:3, WIRE:3
 BUS SIZE: 100A
 MAIN SIZE: 100A
 SCCR: 35,000A
 AVAIL. FAULT CURRENT: 7000A

LOCATION: FACILITY 70
 MOUNTING: SURFACE
 FED FROM: 70MCC6305 VIA 70ATS1
 MAIN TYPE: MLO
 NOTES:

CIRCUIT TITLE	BREAKER			LOAD, VA PHASE			LOAD, VA PHASE			BREAKER			CIRCUIT TITLE
	CKT NO.	AMP	POLE	A	B	C	A	B	C	POLE	AMP	CKT NO.	
70XLP1	1	30	3	2652			0				30	2	70XLP1
70ACU401-CP	3	-	-	2230		1074		100			-	4	-
70ACU401	5	-	-						100		-	6	-
23FV291	7	15	3	830			5543				3	8	23FV291
23FV293	9	-	-	830				5543			-	10	-
23FV294	11	-	-			830			5543		-	12	-
23G161, 23G311	13	15	3	500			500				3	14	23FV292
INFLUENT / EFFLUENT GATES	15	-	-		500			500			-	16	-
23G162, 23G312	17	-	-			500			500		-	18	-
INFLUENT / EFFLUENT GATES	19	15	3	500			500				3	20	23FV293
SPARE	21	-	-		500			500			-	22	-
23G163, 23G313	23	-	-			500			500		-	24	-
INFLUENT / EFFLUENT GATES	25	15	3	500			500				3	26	23G163, 23G313
SPARE	27	-	-		500			500			-	28	INFLUENT / EFFLUENT GATES
23G164, 23G314	29	-	-			500			500		-	30	-
INFLUENT / EFFLUENT GATES	31	15	3	500			500				3	32	23G164, 23G314
SPARE	33	-	-		500			500			-	34	INFLUENT / EFFLUENT GATES
SPARE	35	-	-			500			500		-	36	-
SPARE	37	15	3								-	38	SPACE
SPARE	39	-	-								-	40	SPACE
SPARE	41	-	-								-	42	SPACE
TOTAL LOAD				5432	5060	3504	7543	7643	7643				

PHASE A LOAD (VA) = 13025
 PHASE B LOAD (VA) = 12703
 PHASE C LOAD (VA) = 11547
 TOTAL LOAD (VA) = 37275 44.8 A

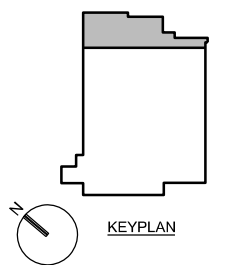


NOTES:

- NUMBER AND LOCATION OF DIFFUSERS MAY VARY BASED ON MANUFACTURER.
- PROVIDE 2" SAMPLE LINE FROM 60" PEF LINE TO EXISTING SAMPLE SYSTEM. SEE PK-2-11-DX-110 FOR EXAMPLE OF THE EXISTING SAMPLE CONNECTION, THE LIMITS OF DEMOLITION, AND THE LOCATION OF THE TIE IN TO THE EXISTING SYSTEM.
- TOP OF SAMPLE LINE SHALL BE BELOW MIN WATER SERVICE ELEVATION IN THE PEF/ RAS MIXING CHANNEL (EL. 364.38).
- FLOOR STAND AND OPERATOR MOUNTED AT EL. 369.0
- 60" PEF PIPE TO BE LOWERED INTO ROOM THROUGH ROOF OPENING IN APPROXIMATE 8-FOOT MAXIMUM LENGTHS. CONTRACTOR TO SIZE PIPE LENGTHS AS REQUIRED TO CONSTRUCT ENTIRE PIPE LENGTH AND SUBMIT ASSEMBLY PLAN TO ENGINEER FOR APPROVAL. PIPING TO BE JOINTED WITH SINGLE WELDED LAP JOINT INSIDE WELD ONLY. WALL PIPES TO BE FLANGED FOR FLANGE MOUNTED GATES. WELDING, LINING, AND COATING REQUIREMENTS PER SPECIFICATION SECTION 40 27 00.04. OUTSIDE GAP TO BE CAULKED PRIOR TO PAINTING. EACH LENGTH OF PIPE SHALL HAVE A PIPE SUPPORT PER PK2-11-S-100.
- 3/4" SHC (CLS) AND 3/4" UWHP PIPING SHALL BE REROUTED TO ACCOMMODATE CONSTRUCTION OF CONCRETE CHANNEL.

- FIELD VERIFY DIMENSION.
- CUT STEEL PIPE AND WELD ON 42" CLASS 150 FLANGE. INSTALL INSULATING FLANGE.

LOWER LEVEL PLAN
1/8"=1'-0"



PK2-11-D-100

NCRWP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION PROCESS INTERMEDIATE PUMP STATION RAS PE MIXING LOWER LEVEL PLAN		B-16149, S-17012 WBS B-15142
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 495 OF 1169 SHEETS		APPROVED: <i>Janet</i> FOR CITY ENGINEER DATE: 12/03/2020 PROJECT MANAGER: MONIKA SMO CZYNSKI
PRINT DCE NAME: <i>Andrea Demich</i> RICE#	DATE: 2/22/21 DATE COMPLETED:	PROJECT ENGINEER: THIEN-LONG TRAN 260-1709 CC327 COORDINATE: 1900-6269 CC383 COORDINATE:
DESCRIPTION: Addendum C BY: CH APPROVED: <i>Janet</i> DATE: 2/22/21	CONTRACTOR: 40381-2495-D INSPECTOR:	DATE STARTED:

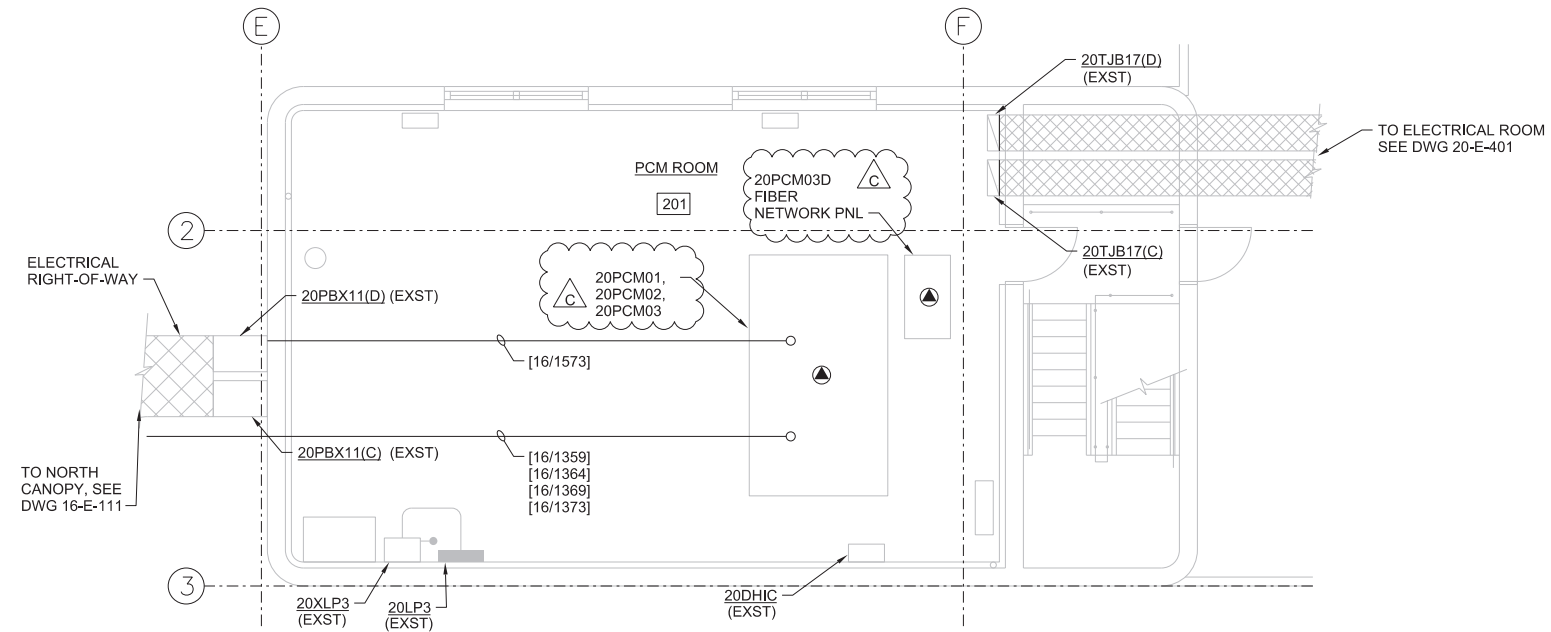
CONSULTANT

WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

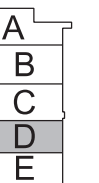
REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 No. M32089
 Exp. 06-30-22
 MECHANICAL
 DIGITALLY SIGNED: 02/09/2021

GENERAL NOTES:

- A. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700'S SERIES.
- B. SEE PANEL SCHEDULES, SEE DWG E-700'S SERIES.
- C. FOR MOTOR CONTROL DIAGRAMS, SEE DWG E-800'S SERIES.



 **ELECTRICAL PROCESS PLAN**
1/4"=1'-0"



PK2-20-EP-102

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION ELECTRICAL PCM ROOM PROCESS PLANS		B-16149, S-17012 WBS B-15142																				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 688 OF 1169 SHEETS		SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER																				
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich DATE: 12/03/2020 RCE#: C79321	CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER																					
<table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> <th>FIRM</th> </tr> </thead> <tbody> <tr> <td>▲ Addendum C</td> <td>CH</td> <td><i>Andrea Demich</i></td> <td>2/22/21</td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	DESCRIPTION	BY	APPROVED	DATE	FIRM	▲ Addendum C	CH	<i>Andrea Demich</i>	2/22/21												260-1709 CCS27 COORDINATE 1900-6269 CCS83 COORDINATE	
DESCRIPTION	BY	APPROVED	DATE	FIRM																		
▲ Addendum C	CH	<i>Andrea Demich</i>	2/22/21																			
CONTRACTOR: _____ INSPECTOR: _____		DATE STARTED: _____ DATE COMPLETED: _____																				
		40381-2688-D																				

CONSULTANT

ch2mSM

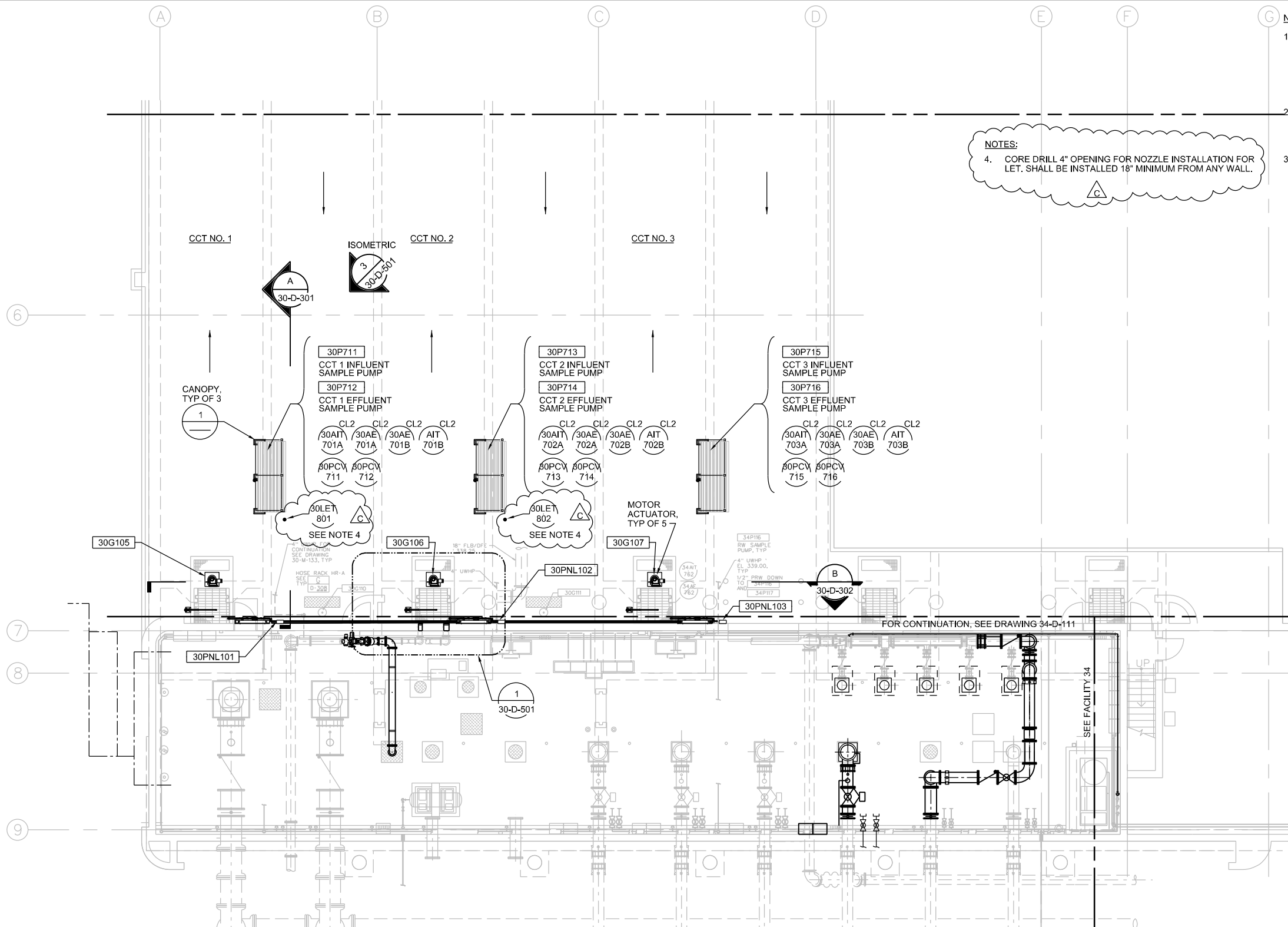
WARNING



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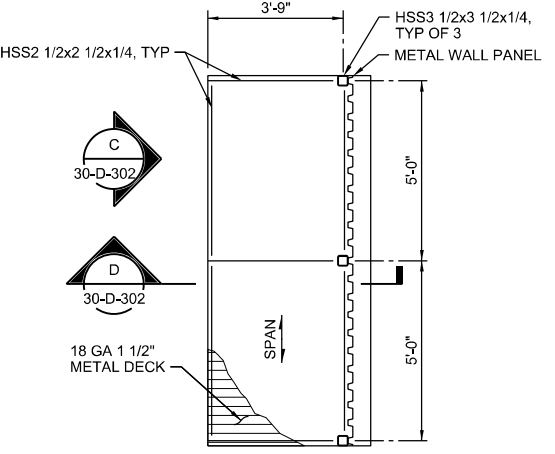
DIGITALLY SIGNED:
02/09/2021



NOTES:

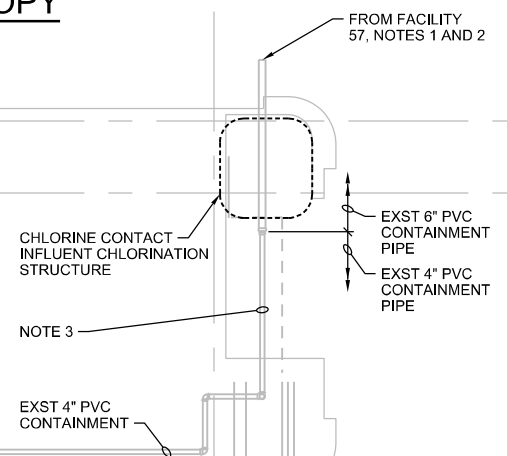
4. CORE DRILL 4" OPENING FOR NOZZLE INSTALLATION FOR LET. SHALL BE INSTALLED 18" MINIMUM FROM ANY WALL.

- NOTES:**
- RETAIN IN SERVICE THE DUTY 1/2" SHC-10 FEED AND ONE 1/2" SPARE. REMOVE THE UNUSED AND ABANDONED PVC TUBING FROM 6" PVC CONTAINMENT PIPE AND BUNDLE AND PULL FOUR 1/2" PVC FLEXIBLE TUBING FEED LINES BETWEEN FACILITY 57 AND FACILITY 34. LABEL FEED LINES WITH METERING PUMP TAG # OR, IF SPARE, WITH UNIQUE ID AT ENTRANCE TO AND EXIT FROM CONTAINMENT PIPE, AND WHERE EXPOSED AT PULL BOXES.
 - IF NECESSARY TO REMOVE ALL SHC TUBING FROM CONTAINMENT PIPING TO PULL NEW LINES, PROVIDE TEMPORARY ABOVE GRADE CONTINUOUS SHC FEED WITH CONTAINMENT AND PULL SIX NEW 1/2" FEED LINES.
 - IN UTILIDOR WEST OF THE CHLORINE CONTACT INFLUENT CHLORINATION STRUCTURE, THE 6" CONTAINMENT REDUCES TO 4" PVC AND IS ROUTED AS SHOWN TO EFFLUENT PUMP STATION PUMP ROOM. REMOVE ABANDONED 3/8" PVC TUBING (SHC-11) AND PULL FOUR 1/2" PVC FLEXIBLE TUBING FEED LINES.



NOTE:
FOR METAL DECK AND METAL WALL PANEL
SEE SCHEDULE ON DRAWING 15-S-121.

1 CANOPY
3/8"=1'-0"



GROUND LEVEL PLAN - AREA C
1/8"=1'-0"

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



DIGITALLY SIGNED:
02/09/2021

<p>PK2-30-D-113</p> <p>NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION</p> <p>PROCESS</p> <p>CHLORINE CONTACT TANKS</p> <p>GROUND LEVEL PLAN - AREA C AND DETAIL</p>			
<p>CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 789 OF 1169 SHEETS</p>		<p>B-16149, S-17012 WBS B-15142</p>	
<p>APPROVED: <i>Andrew Demich</i> FOR CITY ENGINEER DATE: 12/03/2020</p>	<p>PRINT DCE NAME: Andrew Demich RCE#: C70321</p>	<p>PROJECT MANAGER MONIKA SMOCZYNSKI</p>	<p>PROJECT ENGINEER THIEN-LONG TRAN</p>
<p>DESCRIPTION</p> <p>△ Addendum C</p>	<p>BY: CH</p>	<p>APPROVED: <i>Andrew Demich</i> DATE: 2/22/21</p>	<p>FILM</p> <p>260-1709 CCS27 COORDINATE 1900-6269 CCS33 COORDINATE</p>
<p>CONTRACTOR</p>		<p>DATE STARTED</p>	
<p>INSPECTOR</p>		<p>DATE COMPLETED</p>	

GENERAL NOTES:

A. REFER TO THE AREA CLASSIFICATION AND MATERIAL TABLE FOR HAZARDOUS AREA CLASSIFICATION EXTENTS AND MATERIAL SELECTIONS FOR CONDUIT, BOXES AND OTHER ELECTRICAL COMPONENTS, SEE DWG G-061.062

B. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700 SERIES.

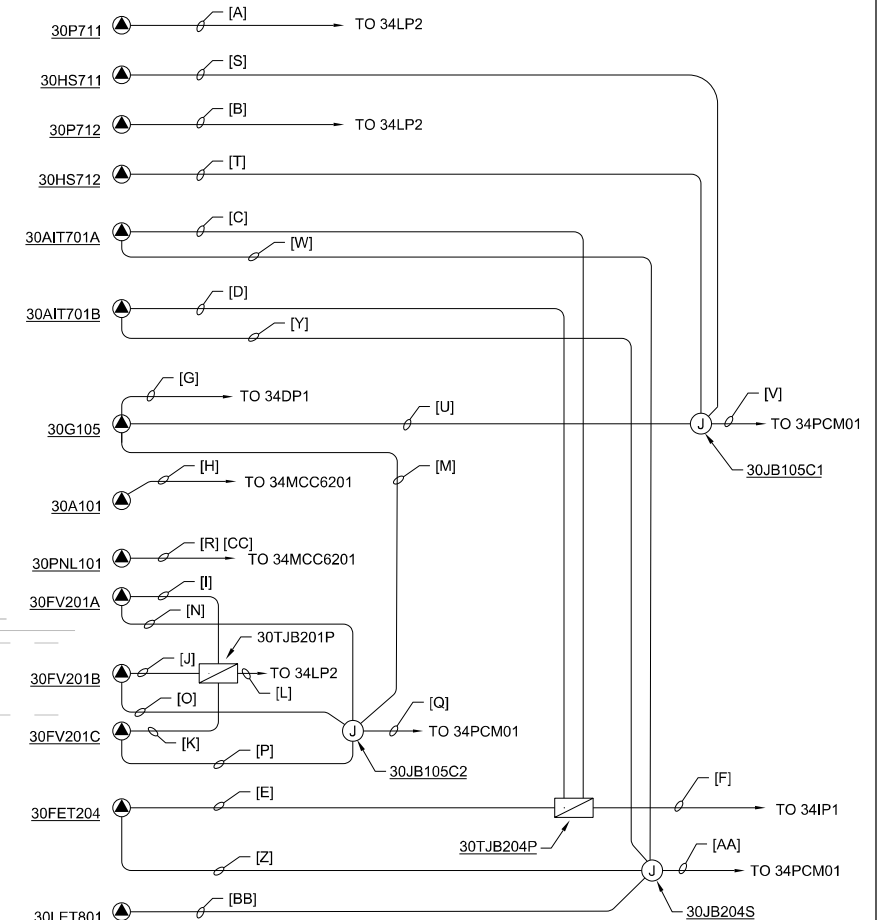
C. SEE PANEL SCHEDULES, SEE DWG E-700 SERIES.

NOTES:

1. MOUNT ON / OFF SWITCH ON PUMP/ANALYZER PANEL ASSEMBLY.

2. INSTRUMENT IS ONLY TYPICAL FOR BASIN 1 AND 2. THERE IS NO CORRESPONDING INSTRUMENT FOR BASIN 3.

CHLORINE CONTACT BASINS - RACEWAY CALLOUTS			
	BASIN		
	1	2	3
A	30/1061	30/1063	30/1065
B	30/1062	30/1064	30/1066
C	30/1039	30/1043	30/1047
D	30/1040	30/1044	30/1048
E	30/1038	30/1042	30/1046
F	30/1037	30/1041	30/1045
G	30/1007	30/1010	30/1013
H	30/1001	30/1002	30/1003
I	30/1017	30/1021	30/1025
J	30/1018	30/1022	30/1026
K	30/1019	30/1023	30/1027
L	30/1016	30/1020	30/1024
M	30/1009	30/1012	30/1015
N	30/1028	30/1031	30/1034
O	30/1029	30/1032	30/1035
P	30/1030	30/1033	30/1036
Q	30/1067	30/1068	30/1069
R	30/1004	30/1005	30/1006
S	30/1070	30/1072	30/1074
T	30/1071	30/1073	30/1075
U	30/1008	30/1011	30/1014
V	30/1076	30/1077	30/1078
W	30/1050	30/1054	30/1058
Y	30/1051	30/1055	30/1059
Z	30/1049	30/1053	30/1057
AA	30/1052	30/1056	30/1060
BB	30/1079	30/1080	N/A
CC	30/1081	30/1082	30/1083



1 RISER DIAGRAM

NTS (TYP OF 3 BASINS)
FOR RACEWAY CALLOUTS, SEE TABLE IN THIS DRAWING.

GROUND LEVEL PLAN - AREA C

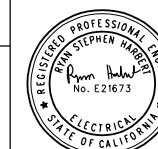
1/4"=1'-0"

WARNING



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CONSULTANT



DIGITALLY SIGNED: 02/09/2021

CONTRACTOR INSPECTOR

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 793 OF 1169 SHEETS

PK2-30-E-113

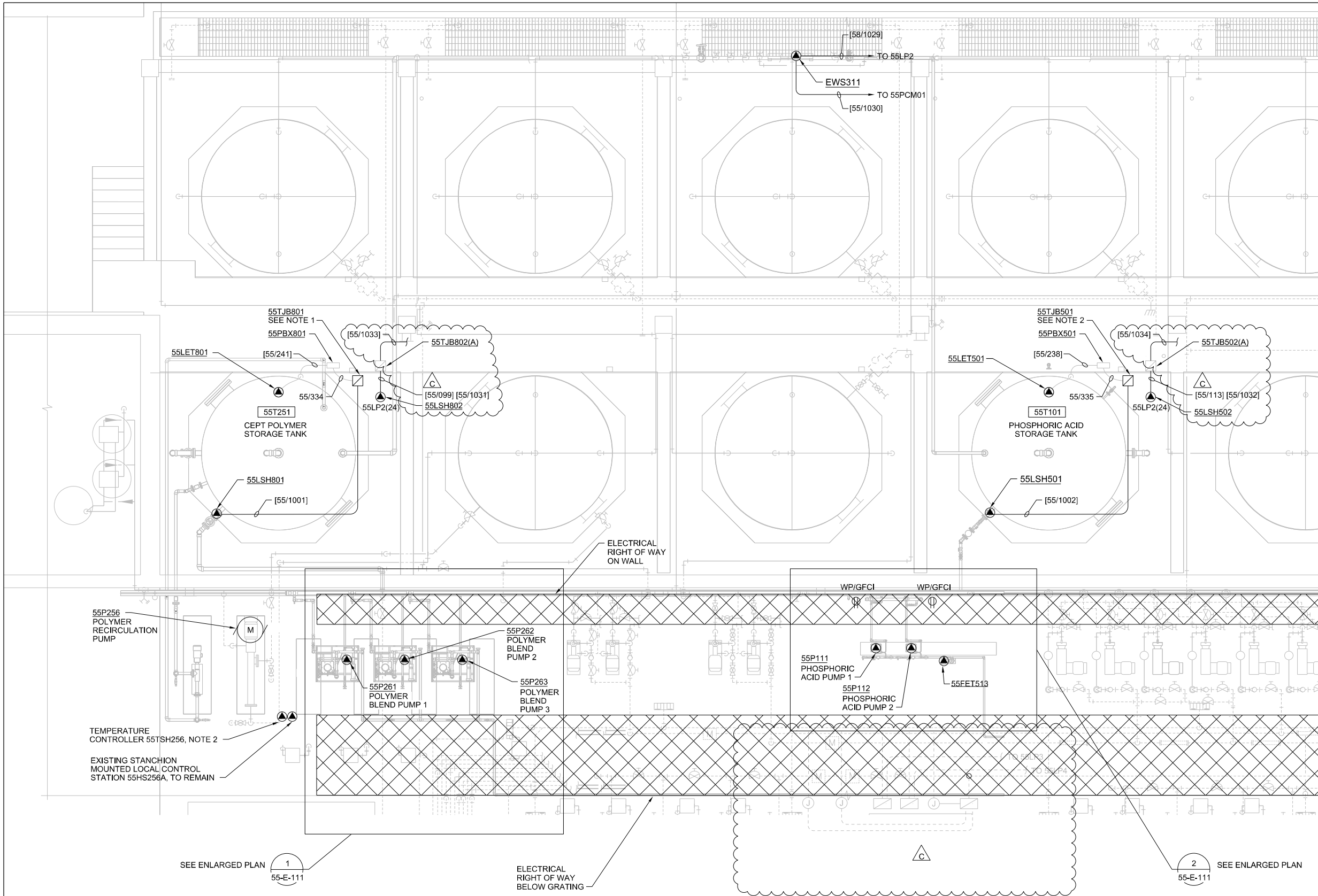
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL
CHLORINE CONTACT BASIN
GROUND LEVEL PLAN - AREA C

B-16149, S-17012
WBS B-15142

APPROVED: <i>Andrew Demich</i>	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI
FOR CITY ENGINEER: Andrew Demich	DATE: 07/03/21	PROJECT MANAGER
PRINT DCE NAME: Andrew Demich	DCE#: [blank]	DIRECTED BY: THIEN-LONG TRAN
DESCRIPTION	BY	APPROVED
▲ Addendum C	CH	<i>Andrew Demich</i>
		DATE: 2/22/21
		FILM

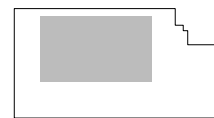
260-1709
CCS27 COORDINATE
1900-6269
CCS83 COORDINATE

40381-2793-D



- GENERAL NOTES:**
- A. REFER TO THE AREA CLASSIFICATION AND MATERIAL TABLE FOR HAZARDOUS AREA CLASSIFICATION EXTENTS AND MATERIAL SELECTIONS FOR CONDUIT, BOXES AND OTHER ELECTRICAL COMPONENTS, SEE DWG G-061,062.
 - B. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS, SEE DWG E-700'S SERIES.
 - C. SEE PANEL SCHEDULES, SEE DWG E-700'S SERIES.
 - D. SEE 1997 RECORD DRAWINGS FOR PATHWAY FOR CIRCUITS USING EXISTING CONDUIT

- NOTES:**
- 1. DEMOLISH EXISTING 55LIT801 AND REPLACE WITH NEW 55TJB801. RE-TERMINATE EXISTING ANALOG [55/243] CIRCUITS IN NEW TJB. ABANDON IN PLACE POWER [55/849] AND CONTROL [55/338] CIRCUITS.
 - 2. DEMOLISH EXISTING 55LIT501 AND REPLACE WITH NEW 55TJB501. RE-TERMINATE EXISTING ANALOG [55/323] CIRCUITS IN NEW TJB. ABANDON IN PLACE POWER [55/850] AND CONTROL [55/869] CIRCUITS.
 - 3. EXISTING MOTOR CONTROL DIAGRAM WAS NOT AVAILABLE DURING DESIGN. MODIFY THE CONTROL CIRCUIT SUCH THAT THE TEMPERATURE SWITCH SHUTS DOWN THE PUMP IN EITHER LOCAL OR AUTO MODE. THE TEMPERATURE SWITCH ALSO REQUIRES 120V POWER THAT SHALL BE OBTAINED FROM THE MOTOR CONTROL CIRCUIT. ACCOMPLISH THIS BY WIRING THE NEW TSH INTO THE EXISTING LOCAL CONTROL STATION. PROVIDE ALL CONDUIT AND WIRE TO FACILITATE THIS NEW CONTROL FEATURE (NOT SHOWN), AND PROVIDE AS-BUILT MOTOR CONTROL DIAGRAM SHOWING CIRCUIT MODIFICATIONS. NOTE THAT THIS NEW WIRING IS NOT INDICATED ON CIRCUIT AND RACEWAY SCHEDULES.



KEYPLAN

FLOOR PLAN
1/4"=1'-0"

PK2-55-E-110

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL CHEMICAL BUILDING FLOOR PLAN

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 822 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED: <i>Andrea Demich</i> FOR CITY ENGINEER DATE: 12/03/2020 PRINT DCE NAME: Andrea Demich RCE#: C79321	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER DRAWN BY: THEN-LONG TRAN PROJECT ENGINEER DESCRIPTION: 260-1709 CCS27 COORDINATE: 1900-6269 CCS83 COORDINATE: 40381-2822-D	
DATE STARTED: _____ DATE COMPLETED: _____		

CONSULTANT

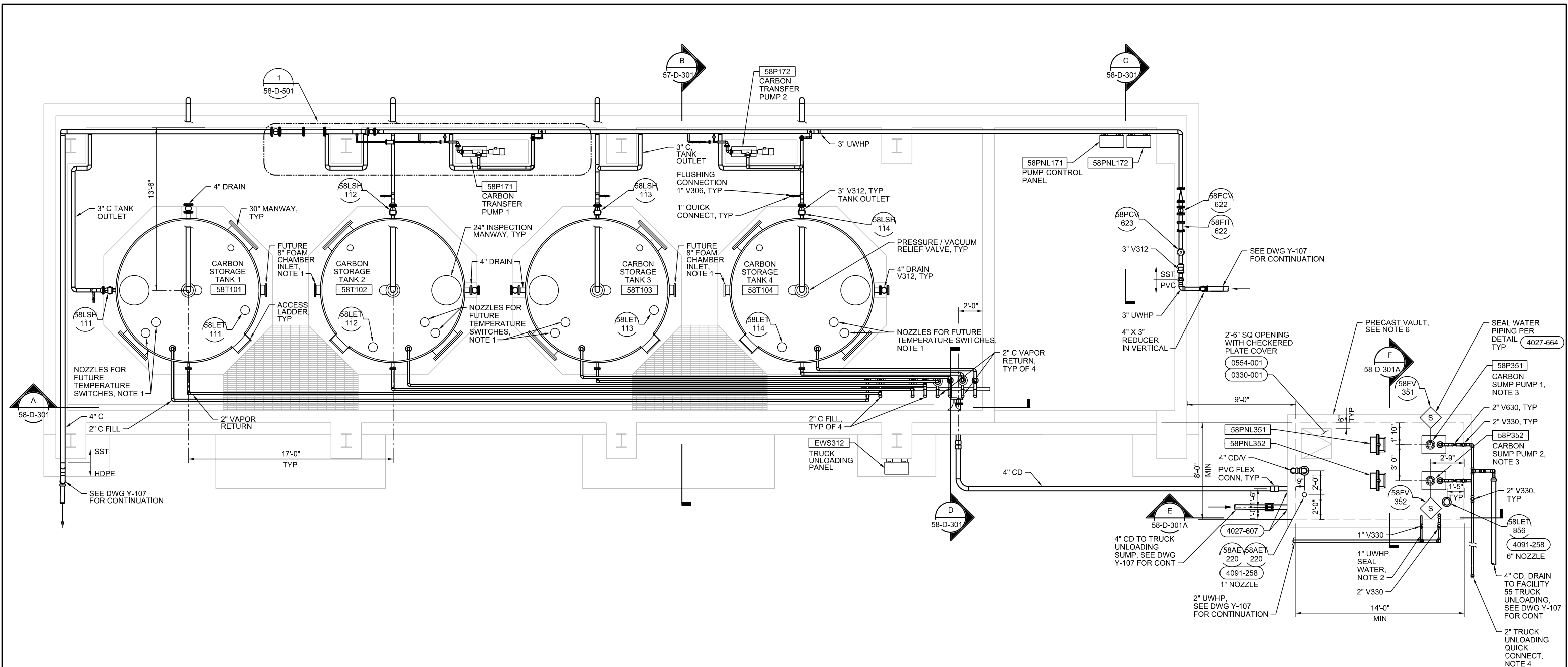
REGISTERED PROFESSIONAL ENGINEER
STEPHEN HARRIS
No. E21673
ELECTRICAL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 02/09/2021

CONTRACTOR _____
INSPECTOR _____

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



NOTES:

1. NOZZLES FOR FOAM CHAMBER INLET AND TEMPERATURE SWITCHES ARE TO BE USED WITH THE FOAM FIRE SUPPRESSION SYSTEM IF USED.
2. CONNECT SEAL WATER TO BOTH SUMP PUMPS.
3. COORDINATE PUMP OPENING WITH APPROVED PUMP SUPPLIER. USE 1" MIN NON-SHRINK LEVELING GROUT BETWEEN THE TOP OF VAULT AND THE PUMP BASE.
4. TRUCK UNLOADING QUICK CONNECT SHALL EXTEND APPROXIMATELY 3" INTO THE ROAD, SO IF THERE IS A SPILL, IT CAN FLOW BACK INTO CHEMICAL SUMP SHOWN ON Y-137.
5. GROUNDING IS REQUIRED FOR LIGHTING SYSTEMS, PIPE RACKS, PUMPS, SUMP PUMPS, TANKS, PIPES, PLUMBING AND FOR CHEMICAL DELIVERY TRUCK.
6. FOR PRECAST VAULT DESIGN AND FABRICATION, SEE DESIGN CRITERIA IN GENERAL STRUCTURAL NOTE SHEETS AND SPECIFICATION 03 40 00 PRECAST CONCRETE.



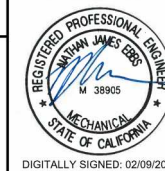
FLOOR PLAN - OVERALL

1/4"=1'-0"

WARNING
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CONSULTANT

ch2mSM

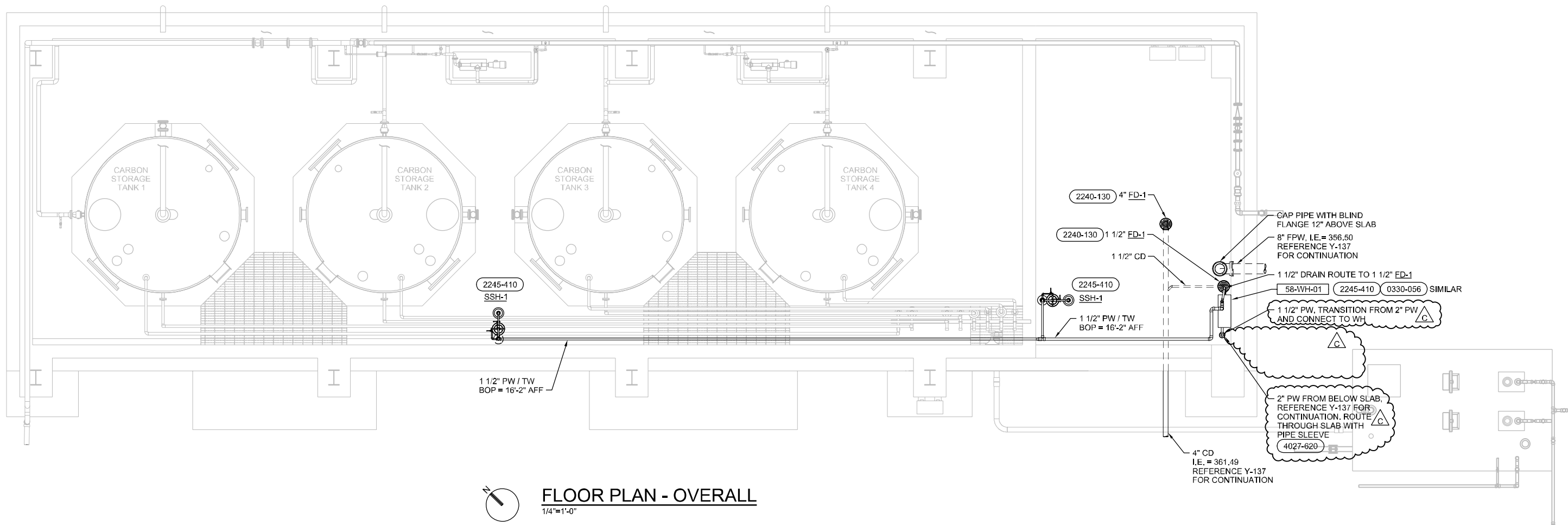


DIGITALLY SIGNED: 02/09/2021

PK2-58-D-110																
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION PROCESS CARBON CHEMICAL FACILITY FLOOR PLAN - OVERALL																
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 867 OF 1169 SHEETS	B-16149, S-17012 WBS B-15142															
APPROVED: <i>James E. Demich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Demich DATE: 12/03/2020 DATE: 07/03/21 RICE#	DRAWN BY: MONIKA SMO CZYNSKI PROJECT MANAGER CHECKED BY: THIEN-LONG TRAN PROJECT ENGINEER															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> <th>FILM</th> </tr> </thead> <tbody> <tr> <td>▲ Addendum B</td> <td>CH</td> <td><i>James E. Demich</i></td> <td>2/3/21</td> <td></td> </tr> <tr> <td>▲ Addendum C</td> <td>CH</td> <td><i>James E. Demich</i></td> <td>2/22/21</td> <td></td> </tr> </tbody> </table>	DESCRIPTION	BY	APPROVED	DATE	FILM	▲ Addendum B	CH	<i>James E. Demich</i>	2/3/21		▲ Addendum C	CH	<i>James E. Demich</i>	2/22/21		260-1709 CCS27 COORDINATE 1900-6269 CCS33 COORDINATE
DESCRIPTION	BY	APPROVED	DATE	FILM												
▲ Addendum B	CH	<i>James E. Demich</i>	2/3/21													
▲ Addendum C	CH	<i>James E. Demich</i>	2/22/21													
CONTRACTOR INSPECTOR	DATE STARTED DATE COMPLETED 40381-2867-D															

GENERAL NOTE:

1. INSULATE EXPOSED PW AND PW/TW PIPING PER SPECIFICATION SECTION 22 07 00.
2. GROUNDING IS REQUIRED FOR LIGHTING SYSTEMS, PIPE RACKS, SUMP PUMPS, TANKS, PIPES, PLUMBING AND FOR CHEMICAL DELIVERY TRUCK.



FLOOR PLAN - OVERALL
1/4"=1'-0"

WATER HEATER									
TAG	SERVICE	TYPE	TEMP. RISE (DEGREES F)	FLOW RATE (GPM)	HEATING CAPACITY (KW)	ELECTRICAL (V/PH/Hz)	MAX DRAW (A)	BASIS OF DESIGN	
								MFR	MODEL
58-WH-01	SAFETY SHOWER	ELECTRIC	30	23	108	480/3/60	130	KELTECH	SNA

PK2-58-P-110

NCRWP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
PLUMBING
CARBON CHEMICAL FACILITY
FLOOR PLAN - OVERALL

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 870 OF 1169 SHEETS		B-16149, S-17012 WBS B-15142
APPROVED FOR CITY ENGINEER <i>Andrea Demich</i> DATE 12/03/2020 PRINT DCE NAME Andrea Demich RCE#	DATE 12/03/2020 DATE 2/3/21 DATE 2/22/21	PROJECT MANAGER MONIKA SMOCZYNSKI PROJECT ENGINEER THIEN-LONG TRAN 280-1709 OCS27 COORDINATE 1900-6269 OCS83 COORDINATE
DESCRIPTION	BY	APPROVED
▲ Addendum B	CH	<i>Andrea Demich</i>
▲ Addendum C	CH	<i>Andrea Demich</i>
DATE STARTED		DATE COMPLETED
		40381-2870-D

CONSULTANT

ch2mSM

REGISTERED PROFESSIONAL ENGINEER
THEODORE JAMES PRICE
36413
MECHANICAL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 3 FEB 2021

WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

**Table 10-5
Mitigation Measures – North City Pure Water Facility Influent Pump Station**

Mitigation Measure	Timing of Mitigation			Responsible Person	Location/Notes
	Pre Const.	During Const.	Post Const.		
MM-AQ-1 (construction BMPs)		X		Construction Manager	Entire site
MM-AQ-2 (construction NO _x)		X		Construction Manager	Entire site
MM-BIO-4 (Coastal California Gnatcatcher)	X	X		City of San Diego	Coastal sage scrub within the facility within MCAS Miramar and within the MHPA south of Miramar Road.
MM-BIO-9a (Qualified biologist)	X			Owner/permittee	Entire site
MM-BIO-9b (preconstruction meeting)	X			City of San Diego	Entire site
MM-BIO-9c (documentation)	X	X	X	Owner/Permittee	Entire site
MM-BIO-9d (biological construction mitigation/monitoring exhibit)	X			City of San Diego	Entire site
MM-BIO-9e (construction fencing)	X			City of San Diego	Entire site
MM-BIO-9f (on-site education)	X			City of San Diego	Entire site
MM-BIO-9g (biological monitoring)		X		City of San Diego	Entire site
MM-BIO-9j (BMPs/erosion/runoff)	X	X	X	City of San Diego	Entire site
MM-BIO-9k (toxics/project staging areas/equipment storage)		X	X	Construction Manager/owner	Entire site
MM-HAZ-2 (hazardous material reporting form)			X	City of San Diego	Entire site
MM-HIS-3 (archaeological monitoring)	X	X	X	Principal Investigator (Archaeologist)	Entire site
MM-NOI-4 (noise and vibration study)	X			Construction Contractor	Entire site
MM-PALEO-1 (paleontological monitoring)	X	X	X	Principal Investigator (Paleontologist)	Entire site

April 2017 10-35 9420-04

PK3-G-005B

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE
PACKAGE 3 – NCPWF IPS AND CONVEYANCE

**GENERAL
MITIGATION MONITORING AND
REPORTING PROGRAM (PAGES 35)**

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 5B OF 164 SHEETS

WBS B-15142

APPROVED: *Andrea Demich* DATE 12/03/2020
FOR CITY ENGINEER: *Andrea Demich* DATE 07/03/21
PRINT DCE NAME: *Andrea Demich* RCE#

SUBMITTED BY: **MONIKA SMOCZYNSK**
PROJECT MANAGER

PROJECT ENGINEER: **THIEN-LONG TRAN**

DESCRIPTION	BY	APPROVED	DATE	FIRM
▲ Addendum B	CH	<i>Andrea Demich</i>	2/3/21	260-1709
▲ Addendum C	CH	<i>Andrea Demich</i>	2/22/21	1900-6269

DATE STARTED _____ DATE COMPLETED _____

CONTRACTOR _____ INSPECTOR _____

40381-3005B-D

CONSTRUCTION CHANGE /ADDENDUM			
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.
ADDENDUM B	1/21	5B, 31, 45-46, 49, 97,	
ADDENDUM C	2/21	5B, 36-38, 42-44	

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT



FOR REFERENCE ONLY

GENERAL NOTES

- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS UNLESS APPROVED BY TRAFFIC CONTROL PERMIT FROM THE DEVELOPMENT SERVICES DEPARTMENT.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF SAN DIEGO DOES NOT AUTHORIZE THE PERMIT HOLDER OR OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.
- IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE (800) 422-4133, TWO DAYS BEFORE YOU DIG.
- CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING AND LOCATING ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE WHILE MAINTAINING A 1 FOOT VERTICAL CLEARANCE.
- "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT ISSUING AUTHORITY.
- DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE RESIDENT ENGINEER.
- CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPPING DAMAGED DURING CONSTRUCTION.
- PRIOR TO SITE DISTURBANCE, CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRECONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO, CONSTRUCTION MANAGEMENT AND FIELD ENGINEERING DIVISION (858) 627-3200.
- CONTRACTOR SHALL ONLY PERFORM SITE SURVEY AND UTILITY MARK OUT SERVICES PRIOR TO THE PRECONSTRUCTION MEETING.
- CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
- CONTRACTOR SHALL HAVE EMERGENCY MATERIAL AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHERE FLOW MAY GENERATE EROSION AND SEDIMENT POLLUTION.
- AN AS-GRADED GEOTECHNICAL REPORT AND SET OF THE REDLINE "AS-BUILT" GRADING PLANS SHALL BE SUBMITTED TO AREA 3 ON THE THIRD FLOOR OF DEVELOPMENT SERVICES WITHIN 30 CALENDAR DAYS OF THE COMPLETION OF GRADING. AN ADDITIONAL SET SHALL BE PROVIDED TO THE RESIDENT ENGINEER OF THE CONSTRUCTION MANAGEMENT & FIELD SERVICES DIVISION AT 9573 CHESAPEAKE DRIVE, SAN DIEGO, CA 92123.
- "AS-BUILT" DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF SAN DIEGO.
- MANHOLES AND PULL BOX COVER SHALL BE LABELED WITH NAME OF COMPANY.
- CONTRACTOR SHALL PROVIDE RED-LINES DRAWINGS IN ACCORDANCE WITH 2-5.4, "RED-LINES AND RECORD DOCUMENTS."
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 1 FOOT VERTICAL SEPARATION TO ALL UTILITIES UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- CONTRACTOR SHALL REMOVE AND REPLACE ALL UTILITY BOXES SERVING AS HANDHOLES THAT ARE NOT IN "AS-NEW" CONDITION IN PROPOSED SIDEWALK, DAMAGED BOXES, OR THOSE THAT ARE NOT IN COMPLIANCE WITH CURRENT CODE SHALL BE REMOVED AND REPLACED WITH NEW BOXES, INCLUDING WATER, SEWER, TRAFFIC SIGNALS, STREET LIGHTS, DRY UTILITIES-SDG&E, COX, ETC. ALL NEW METAL LIDS SHALL BE SLIP RESISTANT AND INSTALLED FLUSH WITH PROPOSED SIDEWALK GRADE. IF A SLIP RESISTANT METAL LID IS NOT COMMERCIALY AVAILABLE FOR THAT USE, NEW BOXES AND LIDS SHALL BE INSTALLED.
- THE AREA WHICH IS DEFINED AS A NON GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO START OF THE WORK. THE PERMIT APPLICANT AND ALL OF THEIR REPRESENTATIVES OR CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY. ISSUANCE OF THE CITY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CALIFORNIA DEPARTMENT OF FISH AND GAME. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.
- PRIOR TO CONSTRUCTION, SURVEY MONUMENTS (HORIZONTAL AND VERTICAL) THAT ARE LOCATED IN THE CONSTRUCTION AREA SHALL BE TIED-OUT AND REFERENCED BY A LAND SURVEYOR.
- UPON COMPLETION OF CONSTRUCTION, ALL DESTROYED SURVEY MONUMENTS ARE REQUIRED TO BE REPLACED, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE PREPARED AND FILED WITH THE COUNTY SURVEYOR AS REQUIRED BY THE PROFESSIONAL LAND SURVEYOR ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA.
- MONUMENT PRESERVATION CERTIFICATION
THE PERMITTEE SHALL BE RESPONSIBLE FOR THE COST OF REPLACING ALL SURVEY MONUMENTS DESTROYED BY CONSTRUCTION. IF A VERTICAL CONTROL MONUMENT IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION. PRIOR TO PERMIT ISSUANCE THE PROFESSIONAL LAND SURVEYOR OR CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING WILL BE RESPONSIBLE FOR MONUMENT PRESERVATION AND SHALL PROVIDE A CORNER RECORD OR RECORD OF SURVEY TO THE COUNTY SURVEYOR AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA, IF APPLICABLE.
 NO SURVEY MONUMENTS EXIST NEAR THE AREA OF CONSTRUCTION
 SURVEY MONUMENTS EXISTING IN OR NEAR CONSTRUCTION WILL BE PROTECTED IN PLACE
 PRECONSTRUCTION CORNER RECORD FOR SURVEY MONUMENTS TO BE DESTROYED DURING CONSTRUCTION
CORNER RECORD # _____ OR RECORD OF SURVEY # _____
 POST CONSTRUCTION CORNER RECORD FOR SURVEY MONUMENTS DESTROYED DURING CONSTRUCTION AND REPLACED AFTER CONSTRUCTION.
CORNER RECORD # _____ OR RECORD OF SURVEY # _____
- UNLESS OTHERWISE NOTED OR SPECIFIED, SURFACE IMPROVEMENTS DAMAGED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE RECONSTRUCTED BY THE CONTRACTOR TO THE SAME DIMENSIONS AND WITH THE SAME TYPE OF MATERIAL.

GRADING PLANS FOR: NCPWF INFLUENT PUMP STATION AND CONVEYANCE PACKAGE 3 - NORTH CITY WRP EXPANSION

GRADING + GEOTECHNICAL SPECIFICATIONS

- ALL GRADING SHALL BE CONDUCTED UNDER THE OBSERVATION AND TESTING BY A QUALIFIED PROFESSIONAL ENGINEER AND, IF REQUIRED, A QUALIFIED PROFESSIONAL GEOLOGIST. ALL GRADING MUST BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY ORDINANCE AND THE RECOMMENDATIONS AND SPECIFICATIONS SET FORTH IN THE PRELIMINARY GEOTECHNICAL INVESTIGATION REPORT(S) ENTITLED:

REPORT OF GEOTECHNICAL INVESTIGATION, NORTH CITY WATER RECLAMATION PLANT EXPANSION, CITY OF SAN DIEGO, PROJECT NO. 44F1 BY: ALLIED GEOTECHNICAL ENGINEERS, INC., 9500 CUYAMACA STREET, SUITE 102, SANTEE, CALIFORNIA 92071-2685, JANUARY 17, 2018.

- THESE DOCUMENTS WILL BE FILED IN THE RECORDS SECTION OF DEVELOPMENT SERVICES UNDER THE PROJECT NUMBER INDICATED IN THE TITLE BLOCK OF THESE PLANS.
- ALL FILL SOIL SHALL BE COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MOST RECENT VERSION OF A.S.T.M. D-1557 OR AN APPROVED ALTERNATIVE STANDARD.
 - AT THE COMPLETION OF THE GRADING OPERATIONS FOR THE EARTHWORK SHOWN ON THIS PLAN, AN AS-GRADED GEOTECHNICAL REPORT SHALL BE PREPARED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE CITY OF SAN DIEGO GUIDELINES FOR GEOTECHNICAL REPORTS. THE FINAL "AS-GRADED" GEOTECHNICAL REPORT SHALL BE SUBMITTED IN ACCORDANCE WITH THE GENERAL NOTES ON THESE PLANS WITHIN 30 DAYS OF THE COMPLETION OF GRADING, WHERE GEOLOGIC INSPECTION IS INDICATED IN THE PERMIT, PLANS, SPECIFICATIONS, OR GEOTECHNICAL REPORT(S). THE FINAL "AS-GRADED" GEOTECHNICAL REPORT MUST ALSO BE REVIEWED AND SIGNED BY A QUALIFIED PROFESSIONAL GEOLOGIST.
 - THE COMPANY OR COMPANIES REPRESENTED BY THE INDIVIDUALS SIGNING ITEM NO. 5 OF THIS CERTIFICATE IS/ARE THE GEOTECHNICAL CONSULTANT(S) OF RECORD. IF THE GEOTECHNICAL CONSULTANT OF RECORD IS CHANGED FOR THE PROJECT, THE WORK SHALL BE STOPPED UNTIL THE REPLACEMENT HAS SUBMITTED AN ACCEPTABLE TRANSFER OF GEOTECHNICAL CONSULTANT OF RECORD DECLARATION PREPARED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE CITY OF SAN DIEGO GUIDELINES FOR GEOTECHNICAL REPORTS. IT SHALL BE THE DUTY OF THE PERMITTEE TO NOTIFY THE RESIDENT ENGINEER AND THE GEOLOGY SECTION OF DEVELOPMENT SERVICES IN WRITING OF SUCH CHANGE PRIOR TO THE RECOMMENCEMENT OF GRADING.
 - THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN THE REFERENCED GEOTECHNICAL REPORT(S) PREPARED FOR THIS PROJECT.

JOSEPH GOLDHAMMER	G.E.	DATE	ALLIED GEOTECHNICAL ENGINEERS, INC. 9500 CUYAMACA STREET, SUITE 102 SANTEE, CA 92071-2685 TEL: (619) 449-5900
NICHOLAS E. BARNES	C.E.G.	DATE	

SITE ADDRESS

4949 EASTGATE MALL, SAN DIEGO, CA 92121

TOPOGRAPHY SOURCE

TOWILL, INC., 8799 BALBOA AVENUE, SUITE 140, SAN DIEGO, CA 92123-1537. AERIAL TOPOGRAPHY, DATE OF PHOTOGRAPHY WAS MAY 11, 2015. AERIAL TOPOGRAPHY IS IN THE CALIFORNIA COORDINATE SYSTEM, ZONE 6, NAD83, VERTICAL DATUM OF 1929. SUPPLEMENTAL SURVEY HAS BEEN PROVIDED BY O'DAY ENGINEERING IN OCTOBER 2017.

BENCHMARK

EASTGATE MALL WILLIAMS LINE N:2614 E:17091 367.962
* BP IN FOOTING OF NE CORNER HIGH VOLTAGE TOWER
SEE SHEET C-001 FOR LOCATION.

ASSESSORS PARCEL NUMBER

APN 343-122-08, 343-122-09, 345-021-01

EXISTING LEGAL DESCRIPTION

PORTIONS OF PARCEL 18, PARCEL 19, AND PARCEL 20 ON RECORD OF SURVEY NO. 4234

DECLARATION OF RESPONSIBLE CHARGE

ENGINEER OF WORK FOR THE GRADING AND DRAINAGE ONLY.
I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE "BUSINESS AND PROFESSIONS" CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.
I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

KEITH HANSEN R.C.E. NO. 60223 EXP. DATE

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

REFERENCE DRAWINGS

STREET DEDICATION	343-02
SEWER EASEMENT	1350-B
SLOPE EASEMENT	11899-D
NCRWP RECORD DRAWINGS (MARCH 1997)	26982
NORTH CITY COGENERATION FACILITY (AUGUST 1999)	28737

WORK TO BE DONE

THE PUBLIC IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE CONSTRUCTED ACCORDING TO THE FOLLOWING STANDARD SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

DOCUMENT NO.	DESCRIPTION
PWP1070116-01	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2018 EDITION
PWP1070116-02	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLICWORKS CONSTRUCTION (WHITEBOOK), 2018 EDITION
PWP1092816-07	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION

STANDARD DRAWINGS:

DOCUMENT NO.	DESCRIPTION
PWP1070116-03	CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2018 EDITION

GRADING QUANTITIES

GRADED AREA	0.73 [ACRES]	MAX. CUT DEPTH:	28 [FT]
CUT QUANTITIES	5,000 [CYD]	MAX CUT SLOPE RATIO (2:1MAX):	2:1
FILL QUANTITIES	3,000 [CYD]	MAX. FILL DEPTH:	10 [FT]
EXPORT	2,000 [CYD]	MAX FILL SLOPE RATIO (2:1MAX):	2:1

THIS PROJECT PROPOSES TO EXPORT 2,000 CUBIC YARDS OF MATERIAL FROM THIS SITE. ALL EXPORT MATERIAL SHALL BE DISCHARGED TO A LEGAL DISPOSAL SITE. THE APPROVAL OF THIS PROJECT DOES NOT ALLOW PROCESSING AND SALE OF THE MATERIAL. ALL SUCH ACTIVITIES REQUIRE A SEPARATE CONDITIONAL USE PERMIT.

NOTE: THESE QUANTITIES DO NOT INCLUDE SHRINKAGE, BULKING, OR REMEDIAL GRADING. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES REQUIRED FOR CONSTRUCTION.

CONSTRUCTION STORM WATER PROTECTION NOTES

- TOTAL SITE DISTURBANCE AREA (ACRES) PK3: 0.73 AC (PROJ TOTAL: 16.4 AC)

HYDROLOGIC UNIT / WATERSHED HYDROLOGIC: PENASQUITOS/MISSION BAY WATERSHED

HYDRAULIC SUB AREA NAME AND NUMBER: MIRAMAR HA 906.40
- THE PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF THE
 WPCP

THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NUMBER R9-2013-0001 AND SUBSEQUENT AMENDMENTS.
 SWPPP

THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NUMBER R9-2013-0001 AND CONSTRUCTION GENERAL PERMIT ORDER NUMBER 2009-009-DWO AS AMENDED BY ORDER 2010-0014 DWO AND 2012-0006-DWO

TRADITIONAL:	RISK LEVEL	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3
LUP	RISK LEVEL	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3

WQID NO: _____

CONSTRUCTION SITE PRIORITY

ASBS HIGH MEDIUM LOW

DISCRETIONARY PERMIT NO: PTS 585316

EXISTING IMPROVEMENTS (Cont.)

RIGHT OF WAY LINE (R/W)	_____
EASEMENT LINE	_____
PROPERTY LINE	_____
CENTER LINE OF PIPE OR ROAD	_____
CHAIN LINK FENCE	-X-X-X-X-
RETAINING WALL	=====
CURB, EDGE OF PAVEMENT (EP)	=====
CURB AND GUTTER (C&G)	=====
BRUSH/TREE LINE	=====
STRUCTURE, BUILDING OR FACILITY	OR

LEGEND

PROPOSED IMPROVEMENTS

SPOT ELEVATION	158.5
MAJOR CONTOUR LINE	155
MINOR CONTOUR LINE	
TOP OF SLOPE, GRADING LIMITS	
SLOPE INDICATOR	
TOE OF SLOPE	
BROW OR TERRACE DITCH	SDD-106
VEGETATED SWALE	
RCP STORM DRAIN	
PVC SU PIPE (HOLES DOWN)	
TYPE "I" CATCH BASIN	SDD-119
MOD. TYPE "I" CATCH BASIN	CG-501
CLEAN OUT	D-09
CURB INLET	SDD-116
MOD. WING-TYPE HEADWALL	SDD-116
MINOR HEADWALL	CG-511
BMP CO	CG-501
RIP-RAP	SDD-104
SIGN	
CENTER LINE OF ROAD	
STAGING OR WORK AREA LIMITS	
CHAIN LINK FENCE	SDM-112
DEMOLITION (PIPE OR AREA LIMITS)	
ABANDON PIPE	
FIRE HYDRANT	SDD-116
SE ARV	SDW-159
STRUCTURE, BUILDING OR FACILITY	

CONCRETE PAVEMENT	
ASPHALT CONCRETE PAVEMENT (AC)	
DECOMPOSED GRANITE	
ASPHALT CONCRETE RESTORATION	
SAWCUT LINE	
CURB, EDGE OF PAVEMENT (EP)	SDG-150
CURB AND GUTTER (C&G)	SDG-151
ASPHALT DIKE (AC DIKE)	G-05
RETAINING WALL	
DOUBLE SWING GATE	SDM-114

EXISTING IMPROVEMENTS

SPOT ELEVATION	157.7
MAJOR CONTOUR LINE	155
MINOR CONTOUR LINE	
DRAINAGEWAY OR DITCH	
CATCH BASIN OR INLET	
CLEANOUT OR MANHOLE	
PROTECTED POST	
SIGN	
LUMINAIRE (LIGHT POLE)	
FIRE HYDRANT	

POLLUTANT CONTROL BMP OPERATION & MAINTENANCE PROCEDURE						
STORM WATER MANAGEMENT AND DISCHARGE CONTROL MAINTENANCE AGREEMENT APPROVAL NO.:						
O&M RESPONSIBLE PARTY DESIGNEE: CITY OF SAN DIEGO						
BMP DESCRIPTION	INSPECTION FREQUENCY	MAINTENANCE FREQUENCY	MAINTENANCE INDICATORS	MAINTENANCE * ACTIONS	QUANTITY	SHEET NUMBER(S)
POLLUTANT CONTROL BMP(S) DESCRIPTION: BMP 3	QUARTERLY & AFTER MAJOR STORM EVENT	SEMI-ANNUALLY OR IF REQUIRED BY MAINTENANCE INDICATORS	- STANDING WATER AFTER 24HRS - ACCUMULATION OF LITTER & DEBRIS - EROSION - OVERGROWN VEGETATION	- CLEAR OBSTRUCTIONS & DEBRIS - RE-SEED, RE-PLANT OR REPLACE BIO-SOIL - REPLACE RIP-RAP - TRIM/MOW VEGETATION	832 SF	CG-111 CG-501 CG-502

* REFER TO THE SWOMP FOR MORE DETAILED MAINTENANCE METHODS.

OWNER/APPLICANT

CITY OF SAN DIEGO
PUBLIC UTILITIES DEPARTMENT

CONSULTANT

O'Day
CONSULTANTS
2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
760-931-8680
O'DayConsultants.com

Civil Engineering
Planning
Processing
Surveying



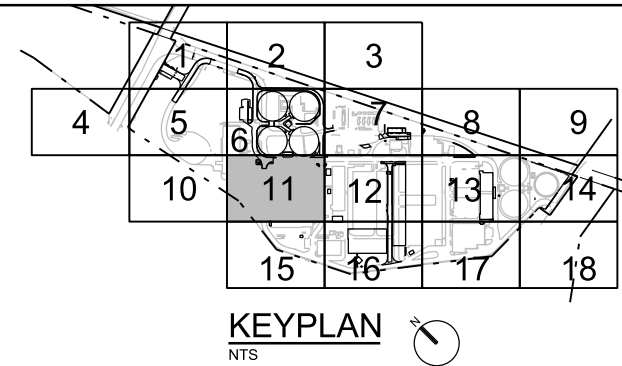
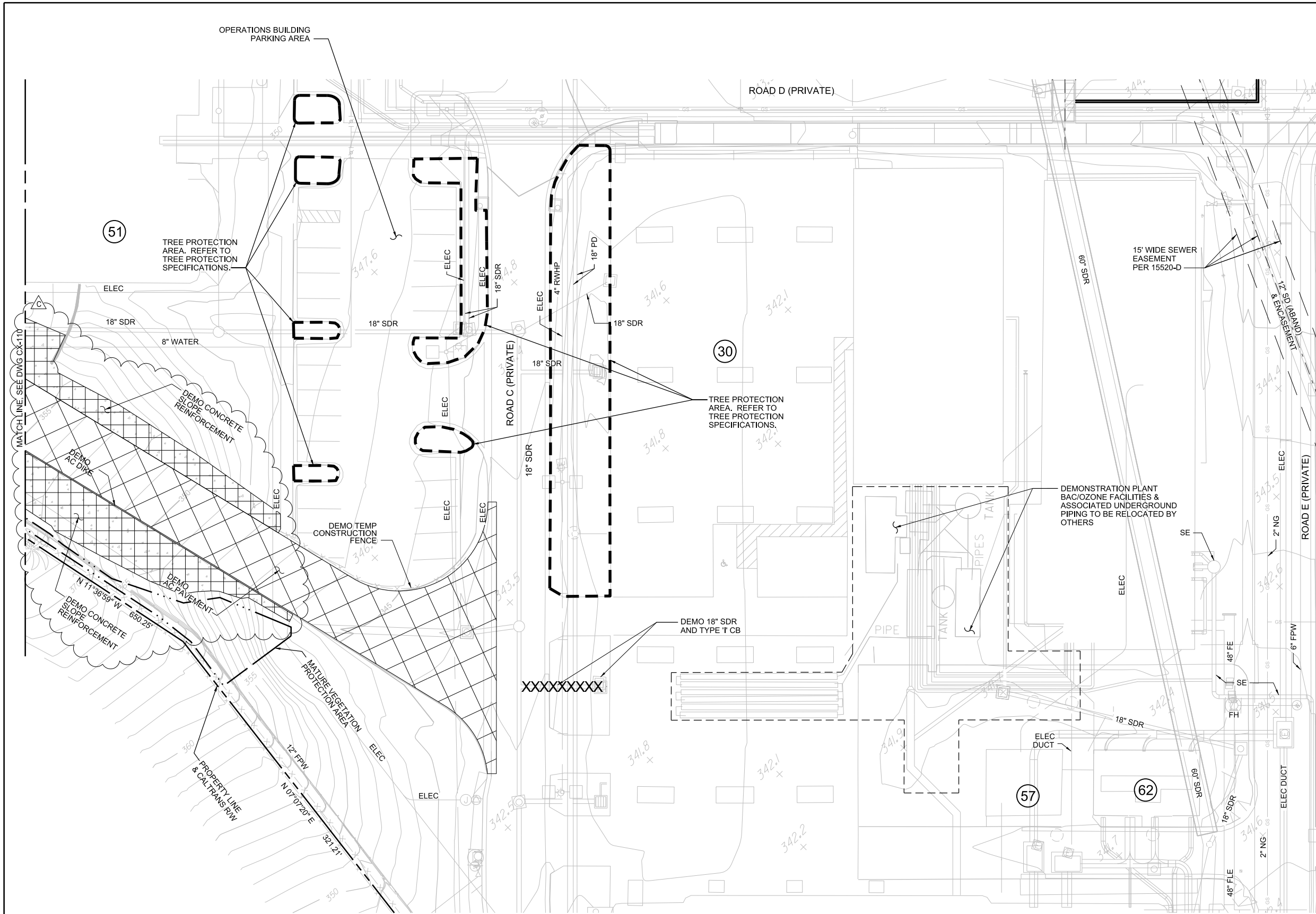
DIGITALLY SIGNED: 02/11/2021

CONTRACTOR	DATE STARTED	INSPECTOR	DATE COMPLETED
			40381-3038-D

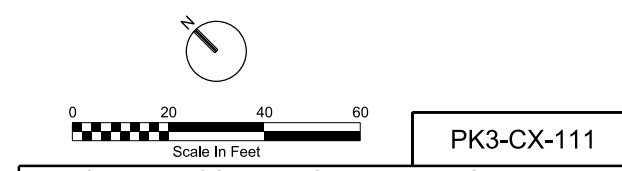
PK3-CG-001

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 3 - NCPWF IPS AND CONVEYANCE CIVIL GRADING COVER SHEET

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 38 OF 164 SHEETS		WBS	B-16140
APPROVED: <i>Hansen</i> FOR CITY ENGINEER Andrea Demich	DATE C70321	SUBMITTED BY MONIKA SMOCZYNSKI PROJECT MANAGER	
DESCRIPTION Addendum C	BY CH	THIEN-LONG TRAN PROJECT ENGINEER	
APPROVED: <i>Hansen</i>	DATE 2/22/21	260-1709 CCS27 COORDINATE	
		1900-6269 CCS83 COORDINATE	



- NOTES:**
- SEE CV-101 THROUGH CV-104 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
 - COORDINATE CIVIL DEMOLITION WITH YARD PIPING AND ELECTRICAL AS SHOWN ON YARD PIPING AND ELECTRICAL PLANS.
 - SAWCUT EXISTING PAVEMENT AND CURBS PRIOR TO DEMOLITION.
 - EARLY SITE WORK AND OZONE/BAC RELOCATION CONTRACT.
 - EXISTING IRRIGATION PIPING NOT SHOWN. DEMOLISH EXISTING IRRIGATION PIPING ENCOUNTERED DURING CONSTRUCTION. RESTORATION OF IRRIGATION LINES TO BE COMPLETED BY OTHERS.



PK3-CX-111

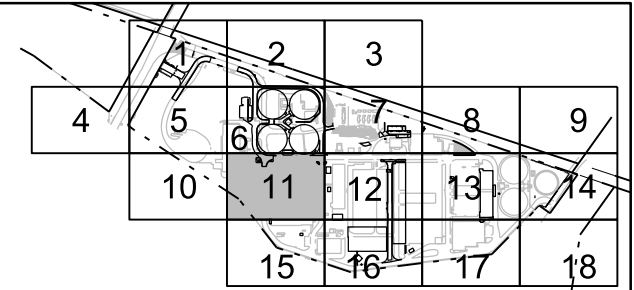
**CIVIL
SITE DEMOLITION
PLAN - AREA 11**

<p>WARNING</p> <p>0 1</p> <p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE</p>	<p>CONSULTANT</p> <p>2710 Loker Avenue West Suite 100 Carlsbad, California 92010 760-931-7700 760-931-8680 O'DayConsultants.com</p> <p>Civil Engineering Planning Processing Surveying</p>	<p>DIGITALLY SIGNED: 02/11/2021</p>
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CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 37 OF 164 SHEETS		WBS B-16140
APPROVED: <i>[Signature]</i>	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMO CZYNSKI PROJECT MANAGER
FOR CITY ENGINEER: Andrea Demich	DATE: 07/03/21	PROJECT ENGINEER: THIEN-LONG TRAN
DESCRIPTION	BY	APPROVED
△ Addendum C	CH	<i>[Signature]</i>
		DATE FILM: 2/22/21
		260-1709
		1900-6269
		40381-3037-D
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED

NOTES:

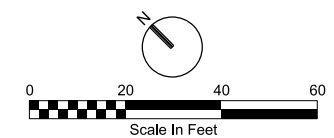
- SEE CV-101 THROUGH CV-104 FOR EXISTING AND PROPOSED UNDERGROUND UTILITIES.
- RETAINING WALLS TO BE RESTORED TO ORIGINAL CONFIGURATION, SEE DWG. CV-511 FOR WALL DETAILS.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
- GRADING DESIGN IS BASED ON AERIAL TOPOGRAPHY PROVIDED BY THE CITY OF SAN DIEGO. THE CONTRACTOR SHALL VERIFY EXISTING GRADES WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF GRADING TO PERMIT THE REVISION OF THE GRADING PLANS IF IT IS FOUND THAT THE ACTUAL GRADES ARE IN CONFLICT WITH THE PROPOSED WORK.
- THESE PLANS WERE PLAN CHECKED BY THE DEVELOPMENT SERVICES DEPARTMENT FOR CONSISTENCY WITH THE CITY DESIGN STANDARDS AND POLICIES, AND SIGNED BY THE CITY ENGINEER. CHANGES REQUIRED BY THE CITY INSPECTOR CANNOT BE ANTICIPATED AT THE TIME OF PLAN APPROVAL.
- THE CITY OF SAN DIEGO PUBLIC UTILITIES DEPARTMENT WILL OWN AND MAINTAIN ALL STORM DRAINS. CONTRACTOR SHALL MAINTAIN STORM DRAINS DURING CONSTRUCTION.
- INSTALL PARKING STRIPE MARKING PER ORIGINAL CONFIGURATION, MIN. 9' STALL WIDTH.
- SEE DEMOLITION DETAILS ON CX-111.



KEYPLAN
NTS

COORDINATE TABLE

NO	DESCRIPTION	NORTHING	EASTING
101	END WALL - MATCH EXISTING	1901087.10	6270154.11
102	WALL JUNCTION/WALL EC	1901087.54	6270143.77
103	WALL PC	1901059.80	6270116.40
104	END OF WALL - MATCH EXISTING	1901040.91	6270111.17
105	TOP OF CURB - MATCH EXISTING	1900972.26	6270175.17
106	TOP OF CURB	1900945.35	6270147.75
107	BC - TOP OF CURB	1900933.07	6270159.79
108	EC - TOP OF CURB	1900930.24	6270159.77
109	BC - TOP OF CURB	1900928.94	6270158.44
110	EC - TOP OF CURB	1900887.04	6270157.53
111	BC - TOP OF CURB	1900880.86	6270163.71
112	EC - TOP OF CURB - MATCH EXISTING	1900852.34	6270163.46
113	TOP OF CURB - MATCH EXISTING	1900927.87	6270238.96
114	BC - TOP OF CURB	1900897.84	6270208.97
115	EC - TOP OF CURB	1900897.84	6270180.67
116	BC - TOP OF CURB	1900899.76	6270178.75
117	EC - TOP OF CURB	1900908.28	6270178.79
118	BC - TOP OF CURB	1900909.55	6270180.08
119	EC - TOP OF CURB	1900909.52	6270182.91
120	TOP OF CURB AT CURB INLET	1900898.33	6270193.88
121	TOP OF CURB - MATCH EXISTING	1900920.79	6270216.76
122	EDGE OF CONC PATIO	1901091.56	6270168.04
123	CENTER TYPE 'F' CB	1900845.55	6270215.92
124	CL HEADER CURB	1901088.74	6270269.10
125	CL HEADER CURB	1901097.63	6270190.55
126	CL HEADER CURB	1901089.94	6270198.74
127	CL HEADER CURB	1901082.09	6270206.32
128	CL HEADER CURB	1901072.74	6270215.72
129	CL HEADER CURB	1901060.44	6270245.75
130	CL HEADER CURB	1901078.97	6270166.53
131	CL HEADER CURB	1901071.90	6270177.55
132	CL HEADER CURB	1901059.59	6270190.12
133	CL HEADER CURB	1901049.83	6270201.71
134	CL HEADER CURB	1901036.28	6270219.56
135	CL HEADER CURB	1901064.40	6270136.87
136	CL HEADER CURB	1901043.06	6270150.75
137	CL HEADER CURB	1901039.51	6270170.62
138	CL HEADER CURB	1901027.07	6270182.15
139	CL HEADER CURB	1901035.08	6270124.38
140	CL HEADER CURB	1901010.75	6270158.94
141	CL HEADER CURB	1900997.36	6270177.33
142	CL HEADER CURB	1900997.46	6270193.57
143	CL HEADER CURB	1901016.38	6270112.59
144	CL HEADER CURB	1900998.07	6270116.55
145	CL HEADER CURB	1900975.20	6270121.15
146	CL HEADER CURB	1900956.47	6270119.65
147	CL HEADER CURB	1900937.91	6270116.89
148	CL HEADER CURB	1900942.79	6270142.46



PK3-CG-111

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 3 - NCPWF IPS AND CONVEYANCE
CIVIL SITE GRADING PLAN - AREA 11

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 42 OF 164 SHEETS		WBS B-16140
APPROVED: <i>Janice L. Demich</i> FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020 C79321	SUBMITTED BY: MONIKA SMOczynski PROJECT MANAGER
DESCRIPTION	BY	APPROVED
▲ Addendum C	CH	<i>Janice L.</i>
		DATE 2/22/21
		FILM
		260-1709
		CS27 COORDINATE
		1900-6269
		CS83 COORDINATE
CONTRACTOR	DATE STARTED	40381-3042-D
INSPECTOR	DATE COMPLETED	

CONSULTANT

O'Day
CONSULTANTS

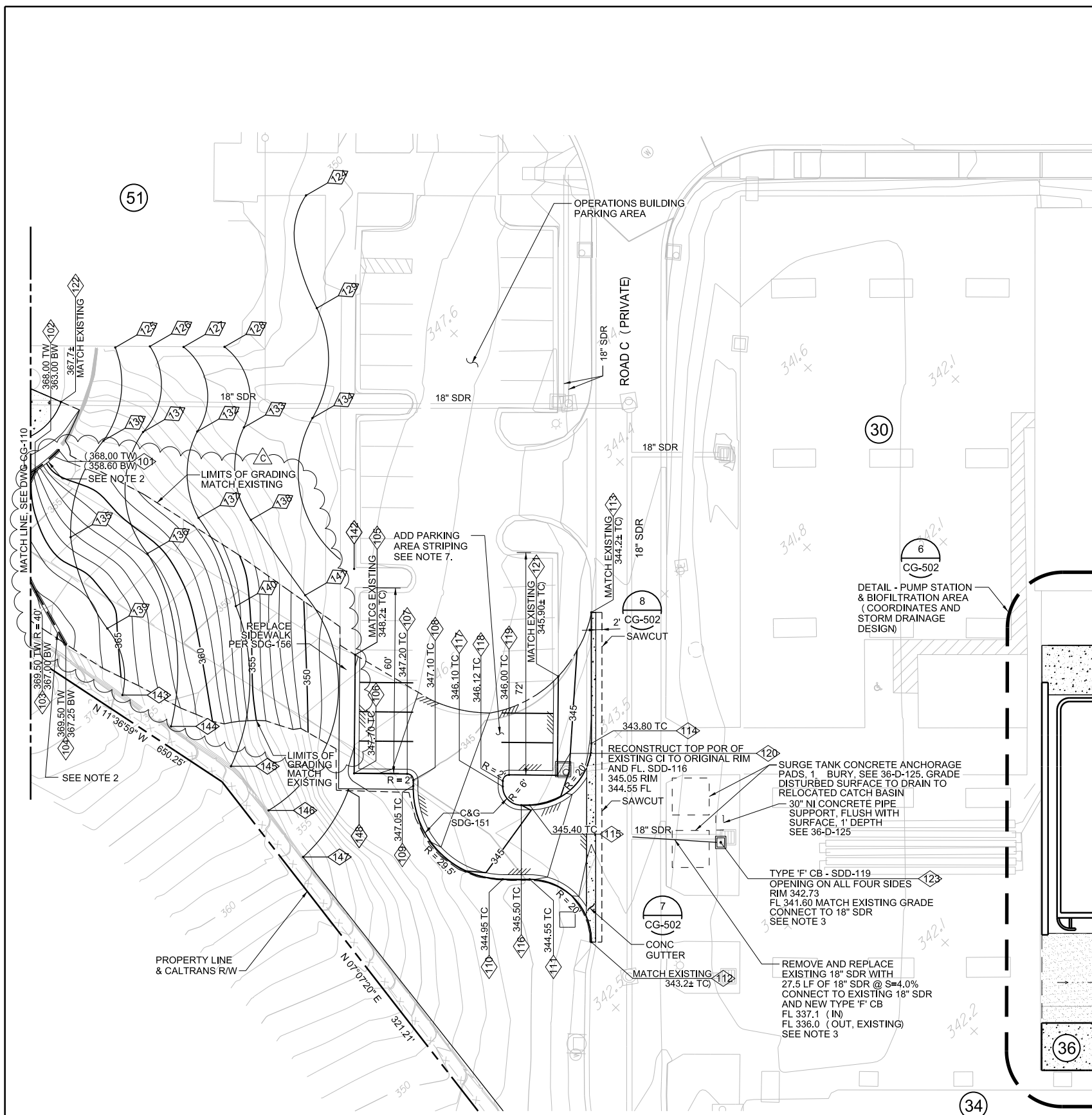
2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
Fax: 760-931-8680
O'DayConsultants.com

Civil Engineering
Planning
Processing
Surveying

REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSON
NO. 60223
EXP. 6-30-2020
CIVIL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 02/11/2021

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



OPERATIONS BUILDING PARKING AREA

ROAD C (PRIVATE)

ROAD E (PRIVATE)

RECONSTRUCT TOP POR OF EXISTING CI TO ORIGINAL RIM AND FL. SDD-116
345.05 RIM
344.55 FL

SURGE TANK CONCRETE ANCHORAGE PADS, 1' BURY, SEE 36-D-125. GRADE DISTURBED SURFACE TO DRAIN TO RELOCATED CATCH BASIN

30" NI CONCRETE PIPE SUPPORT, FLUSH WITH SURFACE, 1" DEPTH SEE 36-D-125

TYPE 'F' CB - SDD-119
OPENING ON ALL FOUR SIDES
RIM 342.73
FL 341.60 MATCH EXISTING GRADE
CONNECT TO 18" SDR
SEE NOTE 3

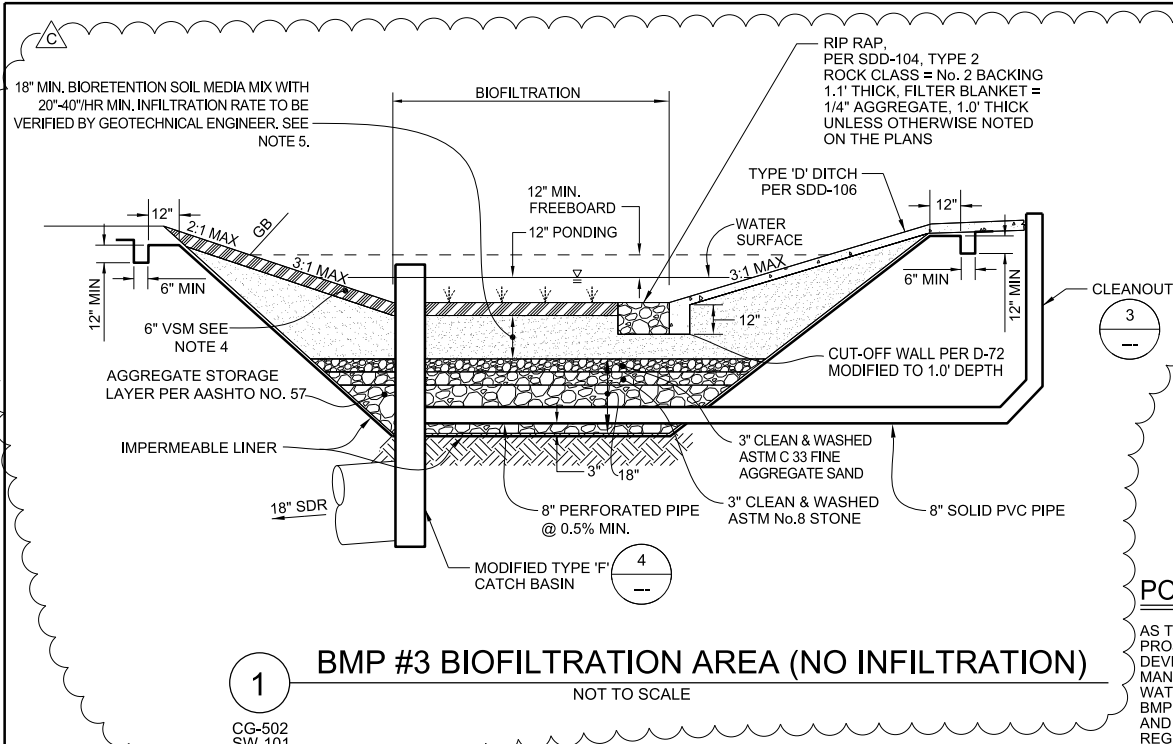
REMOVE AND REPLACE EXISTING 18" SDR WITH 27.5 LF OF 18" SDR @ S=4.0%
CONNECT TO EXISTING 18" SDR
AND NEW TYPE 'F' CB
FL 337.1 (IN)
FL 336.0 (OUT, EXISTING)
SEE NOTE 3

CONC GUTTER

REPLACE SIDEWALK PER SDG-156

ADD PARKING AREA STRIPING SEE NOTE 7.

DETAIL - PUMP STATION & BIOFILTRATION AREA (COORDINATES AND STORM DRAINAGE DESIGN)



1 BMP #3 BIOFILTRATION AREA (NO INFILTRATION)

CG-502 SW-101
NOT TO SCALE

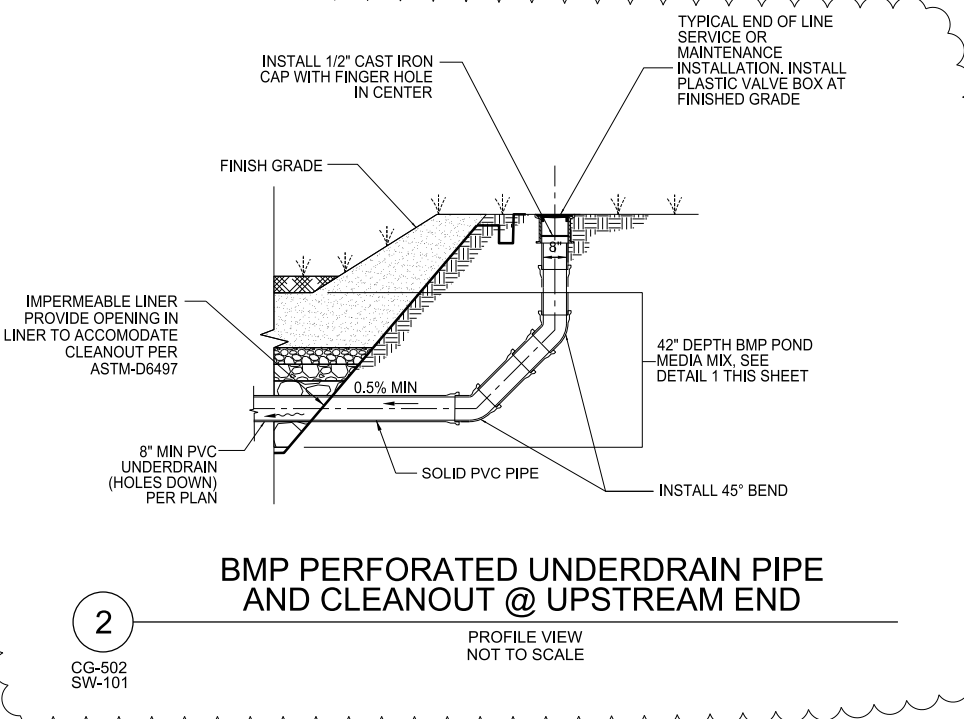
- NOTES:**
1. BMP TO COMPLY WITH CITY OF SAN DIEGO 2018 STORMWATER STANDARDS
 2. BMP SHALL BE REVIEWED AND APPROVED BY GEOTECHNICAL ENGINEER.
 3. SELECTED PLANTS TO BE SUITABLE FOR CLIMATE AND EXPECTED PONDING DEPTH.
 4. VEGETATIVE SUPPORT MATERIAL (VSM) PER SECTION 2.14 OF SPEC 31 23 23.
 5. BIORETENTION SOIL MEDIA SHALL COMPLY WITH SECTION 2.11 OF SPEC 31 23 23.
 6. BMPs SHOULD ADHERE TO APPENDIX E.19 BF-2 NUTRIENT SENSITIVE MEDIA DESIGN OF THE CITY OF SAN DIEGO 2018 STORMWATER STANDARDS.

POST CONSTRUCTION BMP CERTIFICATION

AS THE PROFESSIONAL IN RESPONSIBLE CHARGE FOR THE DESIGN OF THIS PROJECT, I CERTIFY THAT I HAVE INSPECTED ALL CONSTRUCTED LOW IMPACT DEVELOPMENT (LID) SITE DESIGN, SOURCE CONTROL, HYDROMODIFICATION MANAGEMENT, AND TREATMENT CONTROL BMPs REQUIRED PER THE STORM WATER STANDARDS MANUAL AND CONTRACT REQUIREMENTS AND THAT SAID BMPs HAVE BEEN CONSTRUCTED IN COMPLIANCE WITH THE APPROVED PLANS AND ALL APPLICABLE SPECIFICATION, PERMITS, ORDINANCES AND SAN DIEGO REGIONAL MS4 PERMIT.

I UNDERSTAND THAT THIS BMP CERTIFICATION STATEMENT DOES NOT CONSTITUTE AN OPERATION AND MAINTENANCE VERIFICATION.

SIGNATURE: _____
 DATE OF SIGNATURE: _____
 PRINTED NAME: _____
 TITLE: _____
 PHONE NUMBER: _____

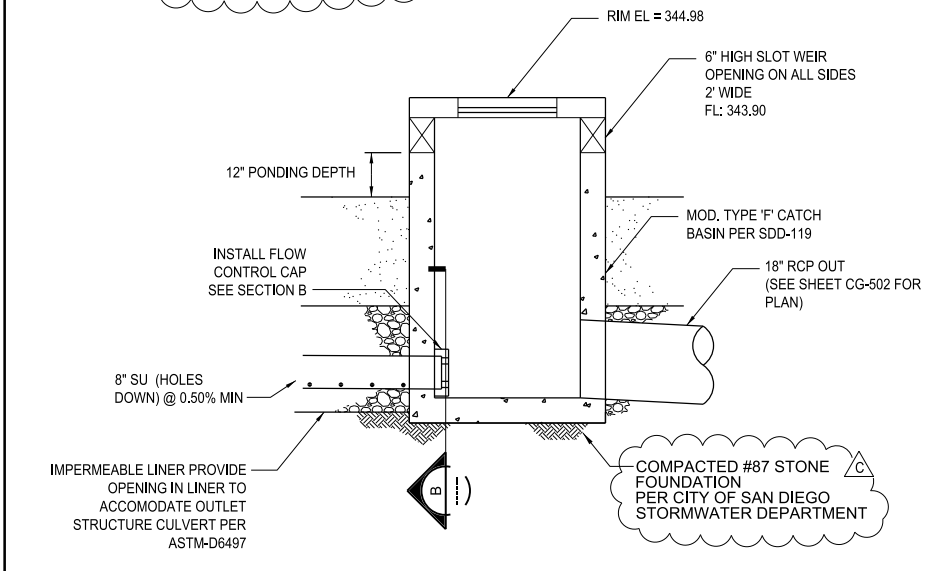


2 BMP PERFORATED UNDERDRAIN PIPE AND CLEANOUT @ UPSTREAM END

CG-502 SW-101
PROFILE VIEW
NOT TO SCALE

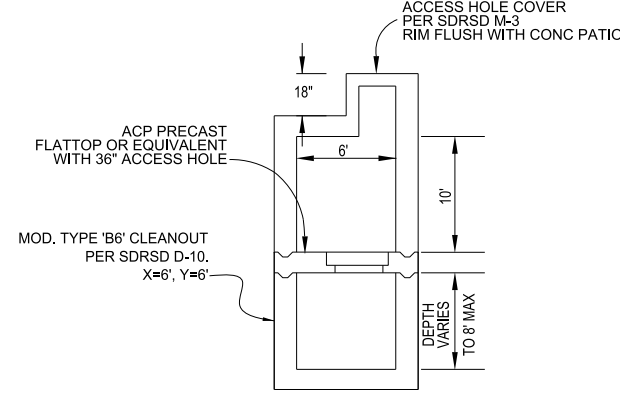
STORM WATER REQUIREMENTS:

1. THIS PROJECT IS SUBJECT TO MUNICIPAL CODE SECTION 4303 AND ORDER NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100.
2. ALL WORK RELATED TO POST-CONSTRUCTION STORMWATER QUALITY SHALL BE IN ACCORDANCE WITH THE STORM WATER QUALITY MANAGEMENT PLAN ENTITLED: PROJECT NAME: NORTH CITY WATER RECLAMATION PLANT EXPANSION SWQMP PROJECT ADDRESS: 4949 EASTGATE MALL, SAN DIEGO, CA 92121 PREPARED BY: O'DAY CONSULTANTS, 2710 LOKER AVE W # 100, CARLSBAD, CA 92010 DATE PREPARED: JUNE 29, 2018
3. POST-CONSTRUCTION BMPs ARE REQUIRED, SEE SHEETS: PK2-CG-502, PK2-CG-503



3 MODIFIED TYPE 'F' CATCH BASIN

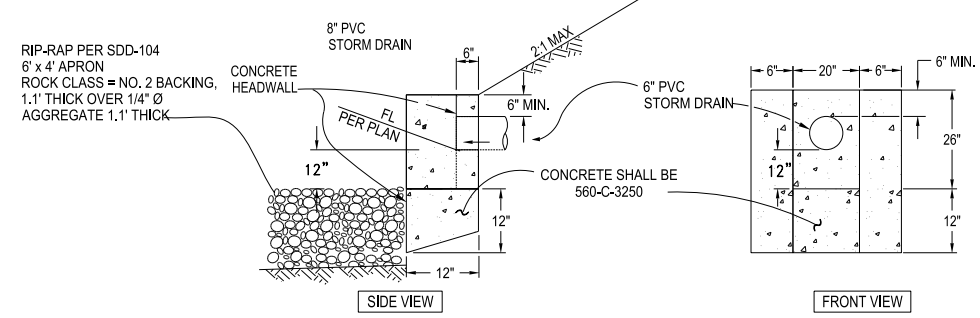
CG-502 SW-101
NOT TO SCALE



4 MODIFIED TYPE 'B6' CLEANOUT

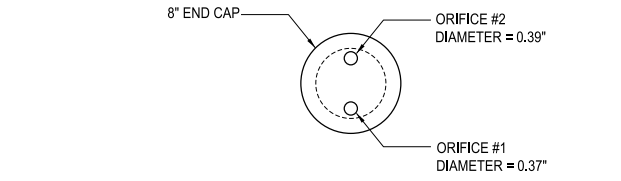
CG-110 SW-102
NOT TO SCALE

NOTE: ALIGN COVER & HOLES TO ALLOW CLEAR VIEW OF INVERT FROM THE TOP OF THE CLEANOUT



5 MINOR HEADWALL

CG-502 SW-101
NOT TO SCALE



B ORIFICE OPENINGS @ 8" END CAP

NOT TO SCALE

CONSULTANT

O'Day CONSULTANTS

2710 Loker Avenue West
Suite 100
Carlsbad, California 92010
760-931-7700
760-931-8680
O'DayConsultants.com

Civil Engineering
Planning
Processing
Surveying

REGISTERED PROFESSIONAL ENGINEER
KEITH W. HANSEN
NO. 60223
EXP. 6-30-2022
CIVIL
STATE OF CALIFORNIA
DIGITALLY SIGNED: 02/11/2021

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PK3-CG-501

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 3 - NCPWF IPS AND CONVEYANCE

CIVIL SITE GRADING PLAN - DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 43 OF 164 SHEETS

WBS **B-16140**

APPROVED: *Janisail* DATE 12/03/2020
FOR CITY ENGINEER ANDREA DEMICH
PRINT DCE NAME: Andrea Demich RICE#
SUBMITTED BY: **MONIKA SMOCZYNSKI** PROJECT MANAGER
CHECKED BY: **THIEN-LONG TRAN** PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILM
Addendum C	CH	<i>Janisail</i>	2/22/21	

260-1709
CCS27 COORDINATE
1900-6269
CCS83 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

40381-3043-D

City of San Diego

CITY CONTACT: Stephen Samara, Principal Contract Specialist, Email: SSamara@sandiego.gov
Phone No. (619) 533-3619

ADDENDUM D



FOR

NORTH CITY WATER RECLAMATION PLANT EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE

BID NO.:	<u>K-21-1861-DBB-3</u>
SAP NO. (WBS/IO/CC):	<u>B-21060, B-16140, S-17012</u>
CLIENT DEPARTMENT:	<u>2012</u>
COUNCIL DISTRICT:	<u>1</u>
PROJECT TYPE:	<u>BO</u>

BID DUE DATE:

**2:00 PM
MARCH 19, 2021**

CITY OF SAN DIEGO'S ELECTRONIC BIDDING SITE, PLANETBIDS

<http://www.sandiego.gov/cip/bidopps/index.shtml>

ENGINEER OF WORK

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineers:

Mark Elliott
1) Registered Engineer

3/1/2021
Date



DIGITALLY SIGNED: 3/1/2021


2) For City Engineer

3/2/2021
Date

Seal:



A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN **EXTENDED AS STATED ON THE COVER PAGE.**

B. BIDDER'S QUESTIONS

Q1. ADDENDA A REVISED THE "RS" PIPE BETWEEN THE TUNNEL SHAFT AND RS VAULT TO SHOW 42" SIZE. HOWEVER, THE PIPE SCHEDULE ON DWG G-104 DOES NOT COVER 42" RS PIPE ONLY PIPE \leq TO 30" AND \geq 48". IS THE 42" PIPE TO BE CLDI?

A1. The 42" RS pipe shall meet the same material requirements as the 48" and larger RS pipe.

Q2. WHAT TYPE OF BACKFLOW PREVENTER SHOULD BE USED AT THE RS VAULT UWHP/RS CONNECTION?

A2. The backflow preventer shall conform to the requirements of Section 212-7 of the Greenbook for Reduced-Pressure Backflow Prevention Assemblies.

Q3. Drawing number PK2-ES-113 has DB 120 drawn in between Area 10 (Primary Sedimentation Tanks) and the Chemical Sump Pumps. DB 120 is also drawn in on PK2-ES-116. It appears that the reference to DB 120 on PK2-ES-116 based on ductbank schedules and the information in the circuit schedule. Please clarify what the correct ductbank reference tag on PK2-ES-113.

A3. A duct bank number between Facility 10 and the chemical sump will be added in the conformed set. This duct bank (DB125) shall include the following:

1"C , circuit 10/1140 and 10/1141

1"C, circuit 10/1134

1"C, circuit 10/1137

- Q4. On the Conduit and Raceway Schedule circuits 58/1036, 58/1037, 58/1038 and 58/1039 have destinations to junction boxes 55JB58C2, 58JB100C1 and 55JB58P. We cannot find the location of the referenced junction boxes. Please provide the location of the above referenced junction boxes and confirm whether these are new or existing.
- A4. 58JB100C1 is shown on drawing PK2-58-E-120, located down and to the left of panelboard 58LP1.
- For 55JB58C2 and 55JB58P, provide new junction boxes near the penetration shown on PK2-ES-108 to facilitate the separation of circuits to their home run.
- Q5. Circuit ID 15/1677 indicates circuit routing from 15DP1 to 15TRO1P, however 15TR01P cannot be found on any drawings. We believe that circuits which have a "Circuit To" or "Circuit From" designation containing a "TR" are intended to be installed in existing cable tray but there is no existing cable tray shown on the drawings. Please provide routing information of existing cable tray so the contractor can quantify the correct footages of cable.
- A5. See NCWRP record drawings for existing cable tray tags and locations. A portion of the pathway for 15TR01P, 01C, and 01A are also shown on PK2-15-E-103 and PK2-15-E-102 as existing and screened back. Start with sheet 15-E-115 in the record drawings.
- Q6. Circuits 00/550 and 00/551 on the Circuit and Raceway Schedule are labelled as 9 #600KCMIL, 3 #250KCMIL in a 4" conduit and a quantity of 5 total conduits in parallel. We assume the cable configuration above would be (3) #600 KCMIL and (1) #250 KCMIL ground per conduit with 2 conduits being considered spare. Please confirm the above assumption or provide clarifying information.
- A6. Yes, this would be three sets of three phase conductors with a ground. Additional conduit are spares.
- Q7. Drawing PK2-ES-101, note 12 states "complete installations of ductbanks 31 & 32 after guard shack relocation. Sleeve new conduits onto existing...". DB31 and DB32 are missing from the ductbank schedule and the locations of these ductbanks are not shown on the electrical site plans. Please provide information on

ductbank conduit/cable configuration information as well as location of these ductbanks on the site.

- A7. See plans in Addendum C.
- Q8. Per drawing PK2-E-701 circuit 00/501 is designated to terminate in 45PCM01, the Conduit and Raceway Schedule notes to refer to Blend Sludge pump station record drawings. The drawing available, PK2-45-D-100, does not have the location of the equipment or the location of these conduits. Please provide information on location of the associated equipment and conduits.
- A8. Record drawing set for the Blended Sludge Pump Station shows 45PCM01 on page 48 of 67, drawing # 45-E-101. It is also shown on drawing 45-E-104 of that same record drawing set. It is in the Northeast corner of the 1st floor of that building. Record drawings are available in section 3-9 Technical Studies and Subsurface data.
- Q9. On drawings PK2-ES-112 DB 121 and DB 122 are duplicated. It appears that the existing ductbanks from Facility 70 Secondary Clarifier Elec. Building to 63USS on the top left corner of the drawing are correct according to the conduit schedule. Please clarify the ductbank designations connecting from Facility 21 Filter Influent Structure to Facility 25 Tertiary Filters.
- A9. See Addendum C.
- Q10. DB 35 was added in bold in the addendum drawings. There is currently no information on the ductbank schedule fo DB 35. As a result the contractor cannot determine if this ductbank is new or existing. Also because of the missing info on the ductbank schedule we cannot determine what the conduit/cable configuration is. Please provide requested info on ductbank 35.
- A10. See Addendum C.
- Q11. Continental Blower has reviewed the specification for the air agitation blowers and we wish to be approved to bid on this project. Attached is supporting documentation showing our performance curves and extensive US installation list.
- A11. Proposed substitutions for an "or equal" item are submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.

- Q12. Switchboard/ switchgear manufacturers are listed as Siemens, Schneider, Cutler Hammer, or approved equal. Will ABB/GE be acceptable?
- A12. Proposed substitutions for an "or equal" item are submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.
- Q13. Approved MCC manufacturers are listed as Allen-Bradley or Cutler-Hammer. Will ABB/GE be acceptable?
- A13. Proposed substitutions for an "or equal" item are submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.
- Q14. Is there a 3D model for this project that can be made available to bidding Contractors? If this model can't be made available prior to bid, will it be given to the awarded Contractor upon execution of the Contract? If so what is the Level of Development (LOD) of the model that will be made available to the awarded Contractor?
- A14. A 3D model will not be made available during bidding. However, it will be made available to the awarded contractor.
- Q15. Section 5 of the Notice Inviting Bids requires that all plumbing or pipefitting work that falls within the classification of a C-36 License shall be performed by a contractor with a C-36 License. Please confirm that if a Contractor does not possess a valid C-36 license at time of bid that they will need to subcontract out this work to a contractor that does possess a valid C-36 license.
- A15. Yes, all plumbing or pipefitting work that falls within the classification of a C-36 License shall be performed under a contract or subcontract with a contractor with a C-36 License.
- Q16. Plan Sheet PK2-CG-513 (Add A) has a note stating the concrete swale is shown on CG-101. It does not appear this detail has been provided. Please Advise.
- A16. Detail for concrete swale is in upper left corner of CG-101.

- Q17. Drawing PK2-25-D-302 (Sheet #771 of 1169) shows 18" of gravel but Spec Section 44 43 30 Filter Media calls out 12". Please confirm whether you desire 12" or 18" of gravel. Clips from Spec Section 44 43 30 Filter Media where it says 12" and a clip the bid set drawing where it says 18" are included below for your reference.
- A17. Provide 18" of support gravel in 5 layers. Replace the gravel gradation specified in Section 44 43 30 Article 3.01 B with the following: Bottom Layer: 4" depth of 3/4" x 1/2", 2nd Layer: 3" depth of 1/2" x 1/4", 3rd Layer: 4" depth of 1/4" x 1/8", 4th Layer: 3" depth of 1/2" x 1/4", Top Layer: 4" depth of 3/4" x 1/2".
- Q18. We were unable to find anything directing us on how you want the media packaged for delivery from the factory. Should we assume you want it delivered in supersacks? And if so, Supersacks can be furnished with or without pallets and UV covers. Please clarify.
- A18. Contractor to package, deliver, and protect media per requirements of Specification Section 44 43 30 with consideration given to intended method of temporary storage or staging on site. The site specific constraints of the expansion project, e.g., the canopy cover over filter basin, will also likely dictate packaging, handling and lifting options.
- Q19. Section 44 42 56.03 – Vertical Turbine Pumps 1.03.A.6.c – Calls for seismic analysis of "... column pipe bowl assembly". Please clarify intent of this requirement. Are you requesting a seismic analysis of the flanged joints between the column pipe and bowl assembly? Seismic calculations are typically applied to the anchor bolts.
- A19. Package 2 - Yes, provide seismic analysis of the flanged joints between the column pipe and bowl assembly to ensure that the flanged connection points can withstand the moment arm created by the vertical turbine pump during a seismic event. Package 3 - Yes, provide seismic analysis of the flanged joints between the column pipe and bowl assembly to ensure that the flanged connection points can withstand the moment arm created by the vertical turbine pump during a seismic event.

- Q20. Section 44 42 56.03 – Vertical Turbine Pumps 1.04.A – Specifies spare parts. Please clarify whether the listed spare parts are required for each individual pump or just one set total for pumps of identical design?
- A20. Package 2 - Only one pump is being provided in package 2 therefore the spare parts are for the one pump. Package 3 - One set of spare parts for the total set of pumps as specified.
- Q21. Section 44 42 56.03 – Vertical Turbine Pumps 1.04.A.8 – Requires spare head shaft. This is not applicable when using a solid shaft motor.
- A21. Package 2 - Comment does not apply to Package 2 specifications. Package 3 - Spare head shaft is not applicable, this requirement will be removed from the specifications.
- Q22. Section 44 42 56.03 – Vertical Turbine Pumps 2.01.B – Specifies a “Hydraulic Mitigation Device”. It is not clear what this device is and it is not something that is part of the vertical turbine pump. Recommend deleting from Vertical Turbine Pump specification.
- A22. Package 2 - Comment does not apply to Package 2 specifications. Package 3 - The hydraulic mitigation device shall consist of a deep-fin basket-type vortex suppressor mounted to the pump suction bell. A detail has been provided in this Addendum D.
- Q23. Section 44 42 56.03 – Vertical Turbine Pumps 2.01.B – Specifies a sole plate. The pumps will be installed in suction cans which have an integral mounting plate. Sole plates are a separate standalone plate for sump/wet well applications and are not utilized on suction cans. Recommend deleting reference to sole plate.
- A23. Package 2 - Comment does not apply to Package 2 specifications. Package 3 - Project suction cans do not have integral pump mounting flanges. Sole plates are required as shown on design drawings.

- Q24. Section 44 42 56.03 – Vertical Turbine Pumps 2.01.C – Specifies a sole plate. Sole plates are not applicable to pumps installed in suction cans. Recommend deleting reference to sole plate.
- A24. Package 2 - Comment does not apply to Package 2 specifications. Package 3 - Project suction cans do not have integral pump mounting flanges. Sole plates are required as shown on design drawings.
- Q25. Section 44 42 56.03 – Vertical Turbine Pumps 2.01.D – Requires pump manufacturer to evaluate and potentially design discharge piping system. This requirement attempts to place the responsibility of designing the system discharge piping on a manufacturer of pumps. System design outside of the pump and suction can is not a pump manufacturer’s responsibility, nor do they have the expertise to provide this. The pump discharge nozzle flange will be designed to withstand the forces and moments as defined by Hydraulic Institute Standards. This paragraph must be removed from the pump manufacturer’s responsibility.
- A25. Package 2 - Comment does not apply to Package 2 specifications. Package 3 - This paragraph was removed from the specification via Addendum C.
- Q26. Section 44 42 56.03 – Vertical Turbine Pumps 2.01.E – Requires a carbon steel suction can with 316L SS flow-straightening vanes. Welding dissimilar materials is not recommended. Recommend changing flow-straightening vanes to carbon steel.
- A26. Package 2 - Comment does not apply to Package 2 specifications. Package 3 - The flow straightening vanes shall be 316L stainless steel, and coated as specified.
- Q27. Section 44 42 56.03 – Vertical Turbine Pumps 2.01.F – Specifies a sole plate. Sole plates are not applicable to pumps installed in suction cans. Recommend deleting.

- A27. Package 2 - Comment does not apply to Package 2 specifications. Package 3 - Project suction cans do not have integral pump mounting flanges. Sole plates are required as shown on design drawings.
- Q28. Section 44 42 56.03 – Vertical Turbine Pumps 2.01.G.1 – Please clarify whether the pump manufacturer is responsible for furnishing the VFDs.
- A28. Package 2 - Comment does not apply to Package 2 specifications. Package 3 - The pump spec does not require the pump manufacturer to furnish the AFDs.
- Q29. Section 44 42 56.03 – Vertical Turbine Pumps 2.01.I – Fluid being pumped is filtered secondary effluent. Please clarify whether NSF/ANSI 61 is required.
- A29. Package 2 - Comment does not apply to Package 2 specifications. Package 3 - NSF/ANSI 61 is not required.
- Q30. Section 44 42 56.03 – Vertical Turbine Pumps 2.04.C - This clause states (2) velocity transducers shall be mounted at top flange of discharge head. This conflicts with 3.01 E.3, which states vibration transducers are mounted on the motor. Please clarify location of required vibration transducers.
- A30. Package 2 - Install per 2.04.C.
Package 3 - Install per 2.04.C.
- Q31. Section 44 42 56.03 – Vertical Turbine Pumps Vertical Turbine Pump Data Sheet – Design and Materials – Bowl bearings are specified with fluted rubber with 316SS backing. Line shaft bearings are specified with fluted rubber with bronze shell. Recommend changing bowl bearing to match line shaft bearing – fluted rubber with bronze backing/shell.
- A31. Package 2 - Comment does not apply to Package 2 specifications. Package 3 - Bowl bearings specification will be modified to also allow bronze backed rubber bearings.
- Q32. Section 44 42 56.03 – Vertical Turbine Pumps Vertical Turbine Pump Data Sheet – Design and Materials – Sole plate is not applicable to pumps installed in suction cans. Recommend deleting.

- A32. Package 2 - Comment does not apply to Package 2 specifications. Package 3 - Project suction cans do not have integral pump mounting flanges. Sole plates are required as shown on design drawings.
- Q33. Section 26 20 00 – Low Voltage AC Induction Motors 1.04.B.2 – Motors are not seismic rated. Recommend deleting.
- A33. This requirement is deleted. See this Addendum D.
- Q34. Section 26 20 00 – Low Voltage AC Induction Motors 2.11.B.2.c – Motors will have grease lubricated guide bearing. Oil lubricated guide bearing on this motor frame is not an option.
- A34. This requirement is available for this application based on other previous similar installations. However, any proposed variances or substitutions for an “or equal” item will be considered and shall be submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.
- Q35. Section 26 20 00 – Low Voltage AC Induction Motors 2.11.E – Motor shaft bearings are not offered with ceramic coating. Motor shaft bearing journal shall be electrically insulated.
- A35. This requirement is available for this application based on other previous similar installations. However, any proposed variances or substitutions for an “or equal” item will be considered and shall be submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.
- Q36. Section 26 20 00 – Low Voltage AC Induction Motors 2.15.B.2.d & e – Quantity two RTDs per bearing is not an option. Recommend changing to quantity one RTD per bearing.
- A36. This requirement is available for this application based on other previous similar installations. However, any proposed variances or substitutions for an “or equal” item will be considered and shall be submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.

- Q37. Part 1.06E of section 01 31 13 Project coordination states you can't test the Influent Pump station pumps until the NCPWF project is ready to take water. Please provide the date when NCPWF is ready to take water.
- A37. The Contractor shall coordinate with the NCPWF Contractor as specified. It is anticipated that the NCPWF will be ready to accept water approximately 475 Working Days after the NCWRP Expansion Notice to Proceed.
- Q38. Filanc Alberici JV will bid this project next month and we are under way with the GFE. Attached are snapshots of our posting on the SBA website – can you please confirm this will be acceptable proof for SBA advertising? Since we are nearing the 30-day deadline, a quick response will be greatly appreciated.
- A38. The City does not evaluate Good Faith Effort (GFE) documentation prior to submittal due date. Please refer to Attachment D: Funding Agency Provision, Section 12. DBE Potential Resource Centers, Subsection 12.9 State Agencies, Notes 2.
- Q39. At Primary Sedimentation Tanks Dwg 10S-101, 115, etc., there are Stop PLs but without Details. We saw something similar at 2nd Stage Bioreactor Basins per 16S-111, with call out per 6 / 16S-502 for the slots. Can we use this detail for 10S-101,115? If so, what is the size of the SS Channel? Also, could you provide Detail / Material / Thickness of the Stop Plates?
- A39. The stop plates and frames are specified as fabricated structures in section 35 20 16.25 Fabricated Slide Gates and Stop Plates. All the information asked can be found in that section. Detail 6/16S-502 cannot be used for other stop plate locations. Detail 6/16S-502 is a special detail that is required to anchor the frames to existing concrete structure at this particular location.
- Q40. In reviewing the materials for the Stainless Steel pipe the specification (40 27 11.09) calls for seamless piping 10" and less. The upfront specifications call for the project to be AIS. I am told AIS does not support seamless piping, please advise.
- A40. The Designer has confirmed that ASTM A312/A312M seamless pipe compliant with AIS is available and fabricated in the US.

- Q41. Would it be acceptable to utilize plain end expansion couplings such as the Victaulic BSSC series or other similar couplings to accommodate thermal expansion of Air Systems and help to reduce field welding?
- A41. Proposed substitutions for an "or equal" item are submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.
- Q42. The piping schedule calls out for WS piping (Welded Steel). This welded steel is Cement Lined by the schedule, can this piping be epoxy lined and if so, what specification would we follow?
- A42. Epoxy lining of welded steel pipe is not allowed by the City of San Diego.
- Q43. On plans page PK2-56-A-120, General Notes No. 10 states the following: "VALLEY FLASHINGS SHALL BE NOT LESS THAN 0.019-INCH (NO. 26 GALVANIZED SHEET GAUGE) CORROSION RESISTANT METAL INSTALLED OVER A MIMIMUM 36IN WIDE UNDERLAYMENT OF CONSISTING OF ONE LAYER OF NO. 72 ASTM CAP SHEET RUNNING THE FULL LENGTH OF THE VALLEY.8. ROOF GUTTERS SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER. ALL ROOF GUTTERS AND DOWNSPOUTS SHALL BE CONSTRUCTED OF NON COMBUSTIBLE MATERIALS."
- A call-out for this note cannot be located on this plan sheet. Please confirm there is no valley flashing utilized on the UREA Facility.
- A43. Facility 56 is no longer part of the project. See previous addenda.
- Q44. In Attachment E - Supplementary Special Provisions, Section 4.6 adds item 11 that states "You shall submit your list of proposed substitutions for an "equal" item no less than 15 Working Days prior to the bid due date and on the City's Product Submittal Form available at..." On previous City projects this requirement was 15 working days from determination of the Apparent Low Bidder. To require these documents for the entire project 15 working days prior to the bid date will greatly reduce the Contractor's ability to ensure the most competitive pricing to the City. Please confirm that

this will be changed to be required 15 days after the determination of the Apparent Low Bidder and not prior to bid due date.

- A44. Proposed substitutions for an "or equal" item are submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.
- Q45. PK2-70-M-110 shows supply air duct as 20" Dia. PK-70-M-301 shows 24". Which is correct?
- A45. It is to be a 20" SA duct.
- Q46. PK3-36-M-110 shows a detail 2337-809 for the supply fan diffuser that doesn't exist.
- A46. The detail requires supply grilles to have a 45 degree angle tap, opposed blade balancing damper, and the supply grille (size as shown on drawings).
- Q47. What bid item does Area 57 fall under?
- A47. This is part of Area 55. See changes per Addendum D.
- Q48. PK2-58-D-301 shows Ball valves as V306 on the carbon fill/return pipelines flanged. In the spec's V306 is a threaded valve.
- A48. On section D on 58-D-301, that same ball valve is shown as V312. Use V312 for that valve.
- Q49. PK2-58-D-301. What valve spec. does 58-PSV-611 & 612 fall under?
- A49. Use V-730 for the pressure relief valve. See changes per Addendum D.
- Q50. What bid item does the Area 50 storm water pump station fall under?
- A50. This should be under Site Civil.
- Q51. PK2-01-D-101 calls for a tapping sleeve and valve. The valve is called out as a V500 butterfly valve. Is this pipe going to be a hot tap which will need a gate valve?
- A51. The pipeline cannot be removed from service and a hot tap is required and installed per the contract documents and City of San Diego standards. Replace V500 valve with V134.

- Q52. Handhole 00HH01 on pg. PK2-ES-101 shows the Handhole as new. Pg. PK-ES-105 shows Handhole 00HH01 as existing. Please clarify
- A52. New handhole currently labeled 00HH01 on PK2-ES-101 shall be relabeled as 00HH02A. Existing handhole and label on PK2-ES-105 remains as is.
- Q53. Handhole 00HH01 on page PK2-ES-101. What size does the Handhole need to be?
- A53. Handhole is for site lighting. NCWRP record drawings indicate 3 ea 1" conduit for existing duct bank. Traffic rated box required; Christy Box B1017 or equal, size handhole for conduit quantities from the record drawings.
- Q54. PK2-ES-101 Note 4 intercept existing duct bank. What is the size of the duct bank? Is the Duct back concrete encased?
- A54. According to the NCWRP record drawings duct bank consists of 3 ea 1" conduit. Duct banks are for site lighting are not concrete encased.
- Q55. PK2-ES-101 Note 9 intercept existing duct bank. What is the size of the duct bank? Is the Duct back concrete encased? What size Hand hole is required?
- A55. According to the NCWRP record drawings duct bank consists of 2 ea 1.5" conduit, 1 ea 2" conduit, and 1 ea 1" conduit. Duct banks not concrete encased. Handhole size shall be field verified to match existing handholes 00HH08 and 00HH07.
- Q56. Is there any spec for the Rockwell PLC? My vendor thinks there isn't enough info for them to quote with what we have. My understanding is that other than CompactLogix PLC there is no information in any of the drawings or document to guide me to choose CompactLogix PLC or any I/O. Send me something that lists the numbers of processors and quantity and type of I/O that is required.
- A56. Rockwell Automation CompactLogix PLC can be found on package systems, such as, the Large Bubble Compressed Air Systems. The type and quantity of I/O cards is up to the package system vendor.

I/O card types have been included in the specifications. The Process Air Blower 1-4 are to use the Rockwell Automation ControlLogix PLCs.

- Q57. Please verify if the fire hydrants listed on PK2-Y-112, PK2-CG-112 & PK2-Y-116, PK2-CG-118 are new or relocating existing hydrants.
- A57. Fire hydrants are new. Demolition of fire hydrants and not relocation is shown on the CG drawings.
- Q58. Plan Sheet PK2-C001 - Identifies several areas as "Alternative Parking areas." Is there a required structure section for these parking areas? Please advise.
- A58. 3"AC over 4"AB should be used for temp parking.
- Q59. In Attachment E, Supplementary Special Provisions, Section 6-2.1 (Page 161) it states "Do not Work in the areas where there is currently a moratorium issued by the City. The areas subject to moratorium are listed as provided here: a) Activities that disrupt plant operations are prohibited during the summer, unless otherwise approved in writing by the Owner." Technical Specification Section 01 31 13, Project Coordination, already includes numerous constraints/restrictions/required sequencing for the project. To avoid confusion, please confirm that the Contractor must follow the restrictions listed in Specification Section 01 31 13 and remove the broad moratorium requirement listed in Attachment E, Supplementary Special Provisions, Section 6-2.1 (Page 161) from the project specifications.
- A59. Refer to the revisions to Supplementary Special Provisions Section 6-2.1 in this Addendum D.
- Q60. In Attachment E, Supplementary Special Provisions, Section 6-1.5.2 (Page 160) items 2 & 3 state: "2) When a non-excusable delay is concurrent with an Excusable Delay, you shall not be entitled to an extension of Contract Time for the period the non-excusable delay is concurrent with the Excusable Delay. 3) When an Excusable Non-Compensable Delay is concurrent with an Excusable Compensable Delay, you shall be entitled to an extension of Contract Time, but shall not be entitled to compensation for the period the Excusable Non-Compensable Delay is concurrent with the Excusable

Compensable Delay.” This section, which was not included in the specifications of previous City contracts, greatly increases the risk to the Contractors and will subsequently increase the pricing to the City. Please consider removing items 2 & 3 from SSP Section 6-1.5.2.

- A60. Bid the work as specified.
- Q61. Please provide information for the 10” PD Force main PVC line from Facility 50 to the yard piping. Drawing PK2-50-D-100 shows continuation to Y-107 but no 10” PD line.
- A61. Modifications are shown on drawing PK2-Y-107 in Addendum B.
- Q62. I am requesting review and approval of REOTEMP Instruments “as equal” to the published specifications “P04 Pressure Gauge”.

Per the solicitation document and the City of San Diego “Whitebook” Section 4.6

1. I am attaching the Project Pressure Gauge Spec for your reference.
2. I am attaching all applicable technical brochures that speak on behalf of our proposed offering. We are not seeking to take any exceptions from specification aside from make and model. We can meet any/all technical requirements specified. We meet the exact lettering of the technical requirements specified.
3. Information requested to be included per section 4-6.4:
 - a. Acceptance of the substitute for use in the work will NOT require any change of the contract documents currently published.
 - b. Incorporation or use of our proposed substitution is NOT subject to any license fee or royalty.
 - c. As stated above, the ONLY variation from spec is make/model.
 - d. REOTEMP Instruments is a San Diego based manufacturer. In fact, the headquarters and subsequent

maintenance, repair and service department is exactly 4.2miles from the North City Reclamation Facility.

- e. REOTEMP Instruments is a Registered ISO 9001 Manufacturer and NIST Traceable Temperature & Pressure Calibration Laboratory. Our proposed substitute is designed to perform all required technical functions adequately, will achieve all results called for and serve "as equal" to the make/model specified.

A62. Proposed substitutions for an "or equal" item are submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.

Q63. Please consider this an RFI to remove the specified requirement for truss arm deflection in favor of the industry standard requirements specified elsewhere in section 44 42 24.03: Specification 44 42 24.03 Paragraph 2.11 F. states that the truss rake arms shall be specifically designed to meet deflection limitations of maximum allowable vertical deflection of 0.25 inch and maximum allowable horizontal deflection of L/200, both at cutout torque. Paragraph 3.04 B. 3. d. requires the deflections be measured against these specified limits during the Performance Test. What will be measured will be more than the rake arm deflections. The measured amount will include, in addition to the deflection of the rake arms, removal of connection clearances, drive cage deflection, closing of clearances in the drive components, any twist in the pier, and float movement of one arm to the opposite arm that occurs when the test loads are not applied in an exactly identical way at the exact same time. In practice an amount of several inches of movement can be experienced at the end of the rake arms before the load indicating instruments even begin registering significant force. This movement is not true deflection of the rake arms but an accumulation of the previously listed clearances and wrap-up being taken out of the load path. True measurement of the rake arm deflection is nearly impossible to achieve. An angular deflection of just 0.064 degrees at the center of the tank from any one of the sources listed above will produce a one inch horizontal deflection at the tank wall. Deflection at the end of the rake arms or sludge headers have little effect on the clarifying process.

For the reasons above, we request paragraph 44 42 24.03-2.11.F be stricken.

A63. This requirement will not be removed. City may consider an alternative testing procedure during the submittal process per 44 42 24.03, 3.04.B.7.

Q64. Please consider the following request for modifications to your project specification Section 33 05 01.16 for the above reference project:

Part/Subpart: 1.03-B-3

Requirement: Letter from independent testing agency certifying that pipe furnished meets requirements of this section

"Proposed Modification: Replace by: Test report from a third-party inspector certifying that pipe furnished meets requirements of this specification"

Comments: This modification is consistent with what's required by part 2.03-B.

A64. 33 05 01.16 is no longer applicable for Package 3 per the changes made in Addendum B as it is no longer allowed for the CW pipeline. Proposed substitutions for an "or equal" item are submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.

Q65. Please consider the following request for modifications to your project specification Section 33 05 01.16 for the above reference project:

Part/Subpart: 2.01-A and 2.01-A-1

"Requirement: A. Materials specified in this section shall be products of: 1. Thompson Pipe Group, Flowtite; Zachary, LA, USA."

"Proposed Modification: Replace by: A. Materials specified in this section shall be supplied by of: 1. Thompson Pipe Group, Flowtite"

A65. 33 05 01.16 is no longer applicable for Package 3 per the changes made in Addendum B as it is no longer allowed for the CW pipeline. Proposed substitutions for an "or equal" item are submitted after

bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.

Q66. Please consider the following request for modifications to your project specification Section 33 05 01.16 for the above reference project:

Part/Subpart: 2.02-A-1-d

"Requirement: Strain Corrosion: The extrapolated 50-year strain corrosion value shall not be less than 0.9 percent as determined in accordance with ASTM D3681 and ASTM D3262."

Proposed Modification: Replace by:

Strain Corrosion: The extrapolated 50-year strain corrosion value shall be in accordance with Table 4 in ASTM D3754 when tested as per ASTM D3681"

"Comments: 0.9% is related to a single CCFRPM pipe manufacturer, not included in this specification."

A66. 33 05 01.16 is no longer applicable for Package 3 per the changes made in Addendum B as it is no longer allowed for the CW pipeline. Proposed substitutions for an "or equal" item are submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.

Q67. Please consider the following request for modifications to your project specification Section 33 05 01.16 for the above reference project:

Part/Subpart: 2.02-A-6-a

Requirement: Supply pipe in nominal lengths of 20 feet.

"Proposed Modification: Replace by: Supply pipe in nominal lengths up to 20 feet."

"Comments: Small length will be required to satisfy the project conditions, especially for the pipes with key lock couplings."

A67. 33 05 01.16 is no longer applicable for Package 3 per the changes made in Addendum B as it is no longer allowed for the CW pipeline. Proposed substitutions for an "or equal" item are submitted after

bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.

Q68. Please consider the following request for modifications to your project specification Section 33 05 01.16 for the above reference project:

Part/Subpart: 2.02-B-1

"Requirement: In conformance with ASTM D3754 and ASTM D4161, rated for minimum working, test, and surge pressures, and stiffness equivalent to pipe barrel itself."

"Proposed Modification: Replace by:

In conformance with ASTM D3754 and ASTM D4161, rated for minimum working, test, and surge pressure with the necessary stiffness"

"Comments: Each coupling is produced with the necessary stiffness to comply with the ASTM D4161 standard."

A68. 33 05 01.16 is no longer applicable for Package 3 per the changes made in Addendum B as it is no longer allowed for the CW pipeline. Proposed substitutions for an "or equal" item are submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.

Q69. Specification Section 40 94 24 Supplement DCS Input/Output List states 3rd party devices being connected to Drops via ELC, but does not indicate the number of soft I/O. Please, confirm the total number of soft I/O for each 3rd party device interfacing with Ovation.

A69. This will vary, but the majority of the communication is to motor starters and drives with requirements as defined in Section 26 24 19.3.01.D.2

Q70. Specification section 40 90 03 – 16 subsection 3.02 A. 5. states DCSP shall "execute field verification and documentation of all conditions, and develop installation drawings and accurate as-constructed documents to successfully complete the Work." Please, clarify the extent of details and scope required for the installation design. For

example, does the installation package include demo drawings, new loop drawings, panel installation details, and/or cable schedules?

- A70. Installation package shall include demo drawings (showing circuits being demolished), new loop drawings, modifications to existing loop drawings, and panel installation details.
- Q71. Specification section 01 31 13-13 1.07 5. states shutdown requirements for the DCS per drop, including that the Contractor/DCSP shall replace Q series I/O with R series I/O. Emerson understands that the DCS I/O migration from Q series to R series is to be executed under a separate project and that project is scheduled to occur prior to the onsite DCS work required for the NCWRP Expansion project. Please, confirm if this is correct.
- A71. Only DROP 01, DROP 07, and DROP 12 will be migrated from the "Q" Series to the "R" Series by the City prior to the NCWRP Expansion project. All other DROP migrations will be done under this contract. Refer to Section 40 90 06 - DCS Bill of Materials and Quantities.
- Q72. Specification section 40 90 07-2 3.01 B. states DCSP shall provide all I/O, including the upgrade from Emerson Series "Q" to Series "R" as specified in Section 40 94 24. Emerson understands that the DCS I/O migration from Q series to R series is to be executed under a separate project and that project is scheduled to occur prior to the onsite DCS work required for the NCWRP Expansion project. Please, confirm if this is correct.
- A72. Only DROP 01, DROP 07, and DROP 12 will be migrated from the "Q" Series to the "R" Series by the City prior to the NCWRP Expansion project. All other DROP migrations will be done under this contract. Refer to Section 40 90 06 - DCS Bill of Materials and Quantities.
- Q73. Specification sections 01 31 13 – 15 1.07 H. 5. f. and 01 31 13 – 16 1.07 H. 5. i. 3) state Drop 5 and Drop 8 are to be demolished. Please confirm these two Drops will be demolished by Contractor.
- A73. DROP 05 and DROP 08 are being demolished, but may be reused for use where additional DROPS are being integrated.

- Q74. Specification Section 40 94 24 Supplement DCS Input/Output List includes a "Deleted DCS Input/Output List". Please confirm the wiring of the deleted I/O will be demolished by Contractor.
- A74. Yes all "deleted I/O" wiring shall be removed per Section 02 41 00.3.01.J.
- Q75. Please, confirm the location of Drop 13 and the distance between Drop 13 and Drop 10. Drop 13 could not be located on the drawings. It looks like drawing PK2-30-E-113 is missing within Volume 11 Part 2.
- A75. DROP 13 is being merged with DROP 10 as remote I/O.
- Q76. Drawing PK2-N01-N-210 shows a Unit Substation and Influent Pumps connected to Drop 1 ELCs. For cybersecurity concerns, Emerson recommends a redundant router between 3rd party devices and the Ovation system. Please, confirm if Emerson should include a pair of redundant routers for each Drop with new ELCs per the City of San Diego's standards.
- A76. In the Unit Substation, the PCM will be talking to Rockwell Automation ControlLogix PLC. With respect to the Influent Pumps, the drives will either be Rockwell Automation or ABB. The ELC modules should have the capability to "talk" directly to these devices.
- Q77. Specification Section 40 90 06 – 14 Table A-14 states to provide three (3) Panel Mount PCs. Drawing PK2-N01-N-203 show the three (3) Panel Mount PCs in Facility 55, 58, and 10. Please, confirm which panels these PC's will be installed and who will be providing the panels.
- A77. These are NEMA 4X panels to be provided by the Contractor - see drawing PK2-N-316.
- Q78. Specification Section 40 95 13 – 22 subsection 2.2 7. requires a Liebert GXT4 UPS. Specification Section 40 90 06 – 13 Table A-13 requires an APC 5 kVA 208V UPS. Please, confirm the preferred UPS manufacturer and if a 5kVA 208V UPS is required.
- A78. Specification Section 40 96 06 shall be corrected (see Addendum D). All UPSs should be Liebert GXT4. Liebert is now part of the Emerson family.

- Q79. Specification Section 40 95 13 – 22 subsection 2.2 1. Requires the DCSP to provide a UPS for “smart” MCC. The DCSP is not providing a “smart” MCC. Please confirm the UPS being provided by the DCSP is intended for DCS equipment only.
- A79. What this is referring to is that each "smart" MCC is being provided with a Rockwell Automation PLC (by the MCC manufacturer), whose power is being supplied by a circuit from the associated PCM/RIO UPS power supply. In sizing the PCM/RIO UPS, this load needs to be taken into consideration.
- Q80. Specification Section 40 95 13 – 22 subsection 2.2 5. Requires the UPS to be floor mounted as shown on the Drawings and shall be mounted on a rack. Please, confirm the mounting requirement for the UPS being provided by the DCSP inside the PCM cabinets.
- A80. It is preferable that the UPS is rack mounted, but if necessary can be mounted on the DCS panel floor.
- Q81. Specification Section 40 96 00 – 3 subsection 1.06 E. states the DCSP shall ensure that new graphics development conforms with the new COMNET DCS High Performance Graphics standards. Please, provide the new COMNET DCS High Performance Graphics standards. If not yet available, should the effort be based on adherence with the guidelines and conventions within ANSI/ISA 101.01?
- A81. The City is presently developing High Performance Graphics standards on another project. For pricing for this project, the use of ANSI/ISA 101.01 standards would be a good guideline.
- Q82. Specification Section 40 96 00 – 3 subsection 1.06 E. states the DCSP shall ensure that new graphics development conforms with the new COMNET DCS High Performance Graphics standards. Please, provide the new COMNET DCS Alarm Management standards. If not yet available, should alarm management be based on adherence with ANSI/ISA 18.2 and IEC 62682?
- A82. The City is presently developing DCS Alarm Management standards on another project. For pricing for this project, the use of ANSI/ISA 18.2 standards would be a good guideline.

- Q83. Attachment E – Supplementary Special Provisions (Rev. Nov. 2020) Page 164, Section 7-3.2 Partial and Final Payment first paragraph states, “From each progress payment, no less than 5% will be deducted and deposited by the City into the escrow account.” Please, confirm if a fixed 5% retention on the progress payments is acceptable and not 5% as a minimum.
- A83. While the typical retention is 5% certain circumstances may require the City of San Diego to retain more. Bid as specified.
- Q84. Specification Section 01 91 14 – 7 Subsection 1.05 A. Table states DCSP is required to perform a 180 day staging site demonstration. Please, confirm if 180 consecutive days, full-time, are required to fulfill this testing requirement.
- A84. Refer to Section 40 98 02 for DCS Staging Site requirements. The 180 day duration for the staging site duration is confirmed.
- Q85. Specification Section 40 90 07 – 5 and - 6 Subsections 3.3 B. 2. e. states an additional 30 three-dimensional main graphic process screens, an additional 50 main graphic process screens, and an additional 100 subgraphic (windows) process screens are to be added to the scope. Specification section 40 96 00 requires High Performance Graphics. Please, confirm the number and style of these additional graphics.
- A85. Considering the quantity of graphics to be developed/reworked to bring the HMI graphics to the High Performance Graphics standards, the number is our best estimation.
- Q86. Specification Section 40 90 03 – 5 Table 2 states “ All cable associated with the DIN” shall be supplied and terminated by the DCSP. Emerson understands the DCSP will supply, install, and terminate all cables within our cabinets. Please, confirm all cables external to the DCSP cabinets shall be supplied, installed, and terminated by GC.
- A86. The DCSP will do all final terminations associated with the DIN (District Information Network) within the scope of the NCWRP Expansion project. Some of these terminations may not be within the DCSP cabinets.

- Q87. Specification Section 40 95 33 – 5 Subsection 3.1 F. 1. States DCSP will provide exterior-mounted Data Jacks on each PCM. Existing DCS cabinets do not have exterior-mounted Data Jacks for cybersecurity concerns. Please, confirm if an exterior data jack is required on the new PCM cabinets.
- A87. This requirement will be deleted, as stated, it becomes a cybersecurity issue.
- Q88. Specification Section 40 95 34 – 9 Subsection 2.02 A. states Fiber Optic Cable specified under this section shall be provided and staged by the DCSP. Please, confirm the fiber optic cable external to the DCSP cabinets shall be provided by Contractor.
- A88. All fiber optic cable external to the DCSP cabinets will be supplied and installed by the GC.
- Q89. Specification Section 40 98 00 – 6 Subsection 3.5 E. states Maintenance Phase requirements. Please, confirm the duration of the maintenance phase.
- A89. The City presently has a maintenance contract with Emerson and this requirement would be duplicating the efforts.
- Q90. Drawing PK2-68-E-623 note #2 states to provide duct banks for future connections, please provide information of the number of conduits and the configuration of the ductbank needed to the Future Generators.
- A90. Future duct bank for generators no longer in scope. Conformed set shall remove notes and duct banks referenced on PK2-68-E-623.
- Q91. Note 2 on drawing PK2-ES-107 points out direct buried conduits (bold line shown with DB designation) that continue to drawing ES-106. On PK2-ES-106 and PK2-ES-111, there seems to be a continuation of the conduit in bold ink but its drawn differently and it is not identified as a direct buried conduit as it would according to the General Electrical Legend. Please clarify if these are the same conduits.
- A91. Note 3 on drawing PK2-E-106 indicates the direct bury is to continue to facility 70, shown on PK2-E-107. A correction shall be

added to PK2-E-107 and PK2-E-111 to show the continuation just past the South clarifier (fac 23). The continuation currently is not shown on PK2-E-111 and a small portion of the continuation is shown on PK2-E-107 but stops at a pipeline (mistakenly shown in bold). Duct bank shall route along the outside Southern edge of the clarifier to reach facility 70.

- Q92. Sheets PK2-23-S-401 makes note and PK2-23-S-401 shows the Influent Distribution Structure Mat Foundation bears on CLSM Fill. The thickness of the CLSM does not appear to be shown. Please provide the CLSM thickness below the Influent Distribution Structure Foundation.
- A92. Total depth of CLSM below influent distribution structure shall extend to bottom of protection slab at the 96" pipe step (~approximately EL 316.00).
- Q93. In Specification 01 50 00, Section 2.01 it states "The Construction Manager's field offices shall be provided under another Contract. The Contractor shall make arrangements to obtain the lease payments from the other Contract for the duration of the Project." It then goes on to state, "It is the intent to keep the trailer onsite for a minimum of 3 additional years from the time of transfer." Please provide the monthly lease amount that should be included for the 3 year period and confirm that the lease is the only cost associated with the Construction Manager's field offices that the Contractor is responsible for.
- A93. The trailers have been purchased by the City. This has been revised in Addendum B.
- Q94. On previous projects at this plant, the Regional Water Quality Control Board conducted SWPPP inspections via continuous video feeds from onsite cameras. Will the remote monitoring of SWPPP activities continue on this project?
- A94. The City of San Diego has no control over the Regional Water Quality Control Board and how they choose to conduct inspections.

- Q95. What Bid Item does the Brine Vault fall under? Dwg PK2-CS-101
- A95. This is part of Yard Piping.
- Q96. What Bid Item does the RS Vault fall under? Dwg PK2-CS-102
- A96. This is part of Yard Piping.
- Q97. What Bid Item does the Power Generation Facility Retaining Wall fall under? Dwg PK2-CS-103
- A97. This is part of site civil grading.
- Q98. What Bid Item does the Utility Tunnel fall under? Dwg PK2-CS-104
- A98. This is part of Yard Piping.
- Q99. What Bid Item does the Waste Diversion Structure fall under? Dwg PK2-CS-106
- A99. This is part of Yard Piping.
- Q100. What Bid Item does the Centrate Intertie Vault fall under? Dwg PK2-CS-107
- A100. This is part of Yard Piping.
- Q101. I am requesting review and approval of KROHNE "as equal" to the published specifications "L50 LEVEL SWITCH TUNING FORK".
- A101. Proposed substitutions for an "or equal" item are submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.
- Q102. Per the solicitation document and the City of San Diego "Whitebook" Section 4.6:
1. I am attaching the Project Level Switch Spec for your reference.
 2. I am attaching all applicable technical brochures that speak on behalf of our proposed offering. We can meet any/all technical requirements specified.

3. Information requested to be included per section 4-6.4:
 - a. Acceptance of the substitute for use in the work will NOT require any change of the contract documents currently published.
 - b. Incorporation or use of our proposed substitution is NOT subject to any license fee or royalty.
 - c. As stated above, the ONLY variation from spec is make/model.
 - d. KROHNE's Factory Representative, CFM is a Carlsbad, CA based company. As such, subsequent maintenance, repair and services are within 25 miles of the North City Reclamation Facility.
 - e. KROHNE is a Registered ISO 9001 Manufacturer. Our proposed substitute is designed to perform all required technical functions adequately, will achieve all results called for and serve "as equal" to the make/model specified.

A102. Proposed substitutions for an "or equal" item are submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.

Q103. We would like to submit the attached pre-approval package to have National Pump listed as an acceptable manufacturer for the vertical turbine pumps on this project.

A103. Proposed substitutions for an "or equal" item are submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.

Q104. There are Flow Switches (10FSL-XXX, 16FSL-XXX) shown on the Instrumentation and Control P&ID drawings (see PK2-N01-N-104A, B, C, D and PK2-N01-N-113V). Flow Switches are not identified on the Instrument List, and there are no Instrument Data Sheets provided. Please confirm Flow Switches are required and provide Instrument Data Sheets for all Flow Switches shown on the Instrumentation and Control P&ID drawings.

- A104. These are limit switches attached to the respective check valves, as specified in Section 40 27 02 - Process Valves and Operators.
- Q105. Please provide an Electrical Motor Control Diagram that identifies the new devices and interconnect requirements for the modifications to the existing Flow Equalization Panel 55PNL02 shown on drawing PK2-N01-N-310A
- A105. Match existing control scheme in existing panel. See NCWRP record drawing set sheet no. 1197 for existing control diagrams for the flow equalization panel 55PNL02. Confirm against DCS I/O list.
- Q106. Please provide an Electrical Motor Control Diagram for panels 50PNL201 and 50PNL202 shown on the Instrumentation and Control P&ID, PK2-N01-N-160B for the Storm Water Pump Station, added in Addendum A
- A106. Per PK2-N01-N-160B, 50PNL201 and 50PNL202 are control stations with only start/stop push buttons. Starters shown on PK2-70-E-634 (included in Addendum A) and PK2-70-E-633 (included in this Addendum D) shall have controls as similar to PK2-E-812 with START/STOP instead of ON/OFF in the local control station.
- Q107. Which Bid Item should be used for the equipment identified on the Instrumentation and Control P&ID, PK2-N01-N-160B for the Storm Water Pump Station, added in Addendum A?
- A107. This is part of Yard Piping.
- Q108. Spec Section 35-20-16.24- 2.0-H.8 shows an option of "Cast-iron or bronze bushed stem guides" but in reading spec section 35-20-16.24-2.0-C.1, it reads that the stem guides are to be type 316L stainless steel. Please indicate which material spec is correct as there is obvious cost difference between the cast iron stem guide option versus 316L SS stem guides.
- A108. Stem guides shall be 316L stainless steel.
- Q109. Spec Section 35-20-16.24- 2.03.C.2 shows that the pedestal or base is to be "high strength cast iron" but spec section 35-20-16.24-2.0-C.1 (same as inquiry #1) shows the pedestal to be made of 316L SS. Please clarify.

- A109. Type 1 gate operators shall be mounted on a 316L stainless steel pedestal or base.
- Q110. Please find attached product submittal form and specification section 44 42 24.03. These are submitted for the purpose of having Walker Process Equipment accepted as an equal for supply of the secondary clarifier mechanisms at the North City WRP expansion.
- A110. Proposed substitutions for an "or equal" item are submitted after bid opening in accordance with WHITEBOOK 4-6 as amended by project Supplementary Special Provisions and Addendum C.
- Q111. At Pri Sed Tanks Area, Dwg 10S-121, etc., show the AL Tread PL Covers to be 3/4" thick. Per our vendor's feedback, PL 3/4" for Tread PLs are NOT produced. Is 3/4" thick the true intention of the design for these tread plates? If so, can we use AL PL 1/2" Tread PL beefing up with PL 1/4 PL underneath with plug welds and skip-welded at edges?
- A111. The 3/4" AL plates can be substituted with AL checkered plate shown in standard detail 0554 001.
- Q112. Partially Loaded Testing 43 22 56 [2.07(A)(3)] requires a "partially loaded" test at maximum speed. Can you please clarify what is meant by this? Is the mixer to be completely assembled and running in air, completely assembled and running in water, or would a simple spin test suffice given the partial loading that the gear and bearing resistances exert on the gearbox?
- A112. Running completely assembled in air is an acceptable approach.
- Q113. Inspecting Gear Teeth for Proper Contact 43 22 56 [2.07(A)(4)] requires using a suitable gear marking compound to inspect gear teeth for proper contact. This is checked during assembly as a standard process without gear marking compound and is not able to be completed after assembly. Please confirm if this is acceptable.
- A113. This requirement was deleted in Addendum C.
- Q114. Impeller Stress 43 22 56 [2.04(F)(3)(c)] requires the maximum stress in any impeller component shall not exceed 12,000 psi. 20,000 psi is standard across the industry. Please confirm if this is acceptable.

- A114. Substitutions (materials and/or suppliers) will need to meet the requirements of the specifications and plans, and requests for substitutions will be evaluated in accordance to SSP 4-6.
- Q115. Impeller Adjustability 43 22 56 [2.04(F)(3)(c)] specifies the need for an impeller adjustable up or down 9 inches for a Turbine-Type mixer, while this ability is exempted from the Hyperbolic-Type mixer. Can you please clarify the need for adjustability? Our impeller is designed to operate in a single optimum location for best mixing performance. Please confirm if this is acceptable.
- A115. Substitutions (materials and/or suppliers) will need to meet the requirements of the specifications and plans, and requests for substitutions will be evaluated in accordance to SSP 4-6.
- Q116. Gearbox Operating Speed Following section 43 22 56 within the data sheets for both the Pre-Anoxic Mixers, Facility 15 and the Post-Anoxic Mixers, Facility 16 a maximum impeller speed of 25 rpm is listed. It is understood that this value of 25 rpm is nominal and an actual operating speed closer to 28 rpm is acceptable. This slight difference does not result in any degraded mixing performance or biological floc shear. Please confirm if this is acceptable.
- A116. Substitutions (materials and/or suppliers) will need to meet the requirements of the specifications and plans, and requests for substitutions will be evaluated in accordance to SSP 4-6. To consider this substitution, manufacturer would need to demonstrate that the bearing life and gearbox service factor meet specified requirements.
- Q117. Anchor Bolts. Please confirm 316 stainless steel anchor bolts are acceptable per 43 22 56 [2.05(C)].
- A117. This refers to Specification 05 50 00 Metal Fabrications. Fastener Schedule in 05 50 00.3.08 shall apply. It also refers to coating of stainless steel anchor bolts in this table.
- Q118. PK2-ES-101 NOTE 12 Says to complete existing Duct Bank. Please provide information for DB31 & 32.
- A118. This is addressed in previous addendum C.

- Q119. PK2-ES-101 Please provide information for DB124
- A119. This is addressed in previous addendum C.
- Q120. PK2-ES-105 General Notes B. Says See Duct bank Schedule Dwg ES401 Thru ES404. I am unable to locate ES-403 & ES-404. Please advise
- A120. Sheets ES-403 and 404 do not exist. Conformed set will have General Note B revised to say "DWG ES-401 THRU ES-402".
- Q121. DB122 is on DRW PK2-ES-111 & PK2-ES-112. The description of the Duct bank would indicate PK2-ES-112 is correct. Please Clarify the Duct bank DB122 on DRW PK2-ES111 running between Building 57 & 34.
- A121. Clarifications shown in previous addendum C.
- Q122. DB122 & DB121 is in 2 different areas on DRW PK2-ES-112, one set is leaving the page and going to PK2-ES-111. The other is going between Building 21 & 25.
- A122. Clarifications shown in previous addendum C.
- Q123. DB121 & 122 indicate conduits that are not in the conduit schedule 70/031, 70/033, 70/030, & 70/032
- A123. These are 70/1030, 70/1031, 70/1032, and 70/1033. Correction to numbering will be made in the conformed set.
- Q124. PK2-ES-115 DB 68 is existing. PK2-ES-108 & 113 has DB 68 also. Please clarify
- A124. DB68 shown on PK2-E-115 is existing and not part of the duct bank schedule provided in this contract. DB68 shown on PK2-ES-108 and 113 is a new duct bank shown in the duct bank schedule as a part of this project.
- Q125. Tertiary filters missing conduits from conduit schedule: PK2-25-E-101; PK2-25-E-102
- A125. This is addressed in previous addendum C.

- Q126. Are the 8" penetrations in the underdrain layer at the Tertiary Filters existing? (PK2-25-D305)
- A126. No. The 8" openings between the lower gullet flume and filter box are new construction. Refer to PK2-25-D-302 and PK2-25-D-304, Sec H for how the 8" orifices align with underdrain laterals. Coordinate construction with underdrain manufacturer.
- Q127. Add. B Sheet PK2-CX-101 has a clouded area with the note "Remove Aggregate Base in This Area." Is there AC in this area? What is the thickness of the base aggregate base section?
- A127. 12" Aggregate Base, no AC.
- Q128. Add. B Sheet PK2-CX-105 shows the demo of the "Temp Parking Area," please confirm the pavement structure section.
- A128. 6" AC on compacted native soil.
- Q129. Add. B Sheet PK2-CX-105 shows the demo of the "Temp CM Trailer." Please provide details for the existing facilities that are called to be demolished.
- A129. CM office is a quad-section modular building, elevated approximately 3-4 ft with a seismic restraint system below consisting of steel piers on pads and ground anchors. There is an elevated aluminum deck approximately 50 ft long with an aluminum access ramp.
- Q130. In Addendum B, page 14 of 129, Section 01 50 00 Temporary Facilities and Controls, Part 3 Execution, Item 3.04 Temporary Controls, Sub-Item D, Numeral 2, was substituted with, "Cranes shall have a maximum height limit as required by the ALUC Air Space Obstruction Criteria defined in the EIR. The FAA Notice of Determination for clearance from MCAS-Miramar is specified at an elevation limit of 408 above Mean Sea Level (MSL)." As written this restriction severely limits the constructability of this project. Additionally, along the east side of the project are high voltage power lines and towers that exceed this elevation limit. Is this a typo and should be 480 feet above Mean Sea Level? Please clarify.

- A130. The 408 MSL requirement is for permanent structures. Construction equipment per the specification requirement (meeting the EIR) can be up to approximately 200-feet above grade and must be in accordance with the FAA permit obtained by the City.
- Q131. Both Packages 2 and 3 contain storm drain (pipe and structures). Section 01 29 00 - Payment Procedures does not mention a method of payment from these items. Please confirm which item the storm drain will be paid under.
- A131. This is part of Site Grading. See changes per this Addendum D.
- Q132. Kindly confirm the dome MAX height? (CRITICAL QUESTION)
- [Drawing PK2-23-S-301 shows 16-ft MINIMUM, while Specs 44 42 25.01 states 16-ft MAXIMUM]
- A 16-ft maximum clear span dome rise is achievable, but not without its complications for the entry dormer. Given its low rise, the bottom of our dormer header strut beam is only about 6' above top of concrete and at the back width of the dormer at header strut is less than 12'. Please confirm if this is acceptable? OR the options would be to increase the dome height to allow for a higher dormer clearance OR provide CST the maximum dormer header strut clearance height required in order to reconfirm the design.
- A132. Dome height minimum is 16'. Maintain a minimum of 6'8" height for egress from the walkway per General Notes in Contract Documents. See modifications to specifications in Addendum D for allowance of larger dome heights.
- Q133. Kindly confirm how many 36" x 48" access hatches are required for inboard laundry access. Drawing PK2-23-M-114 shows 4, while the spec 44 42 25.01.- 2.03.G could be interpreted to more than 4.
- A133. Supply four inboard laundry access hatches per clarifier. One access hatch should be coordinated with the secondary effluent drop box for access.
- Q134. Kindly confirm how many entry dormers are required per clarifier. Drawings [PK2-23-R-100 shows 1 per], while [PK2-23-M-114 shows (4) dormers, each with 2 louvers on them. Louvers in the spec are

listed as equally spaced around the circumference of the dome. Please confirm if these louvers are to be located equally spaced around the circumference of the dome OR if the louvers are to be located in the dormers?

A134. Supply one Entry dormer per clarifier. Louvers shall be equally spaced around the circumference of the dome. Louvers can either be located on a dormer, exhaust curb, are as determined by the dome supplier. Louver free space area to remain as provided in the drawings in specifications and shall be located such that air flow through the louvers is unobstructed.

Q135. In reference to the section 44 42 25.01, the spec 2.02.A for this project says "rise structure with maximum height of dome 16ft" while the Plan sheet PK2-23-S-301 shows "16' MIN height of dome roof". How should this be read, "16' minimum height of dome roof" or "16' minus height of dome roof"? Any clarification is appreciated.

A135. See Addendum D for revisions to this specification.

Q136. What are the dome roof exhaust fan size and performance requirements?

A136. Secondary Clarifier Exhaust Fan performance is listed on 23-M-601 and in specifications.

C. ATTACHMENTS

1. To Attachment D, Funding Agency Provisions, Item 10, Davis Bacon Wage Rates and Provisions, Sub-Item 10.1, Wage Rates, pages 59 through 89, **DELETE** in their entirety and **SUBSTITUTE** with pages 53 through 78 of this Addendum.

D. SUPPLEMENTARY SPECIAL PROVISIONS

1. To Section 6, PROSECUTION AND PROGRESS OF THE WORK, Subsection 6-2.1, Moratoriums, page 161, **DELETE** in its entirety and **SUBSTITUTE** with the following:

6-2.1 Moratoriums. To the "WHITEBOOK", ADD the following:

3. Do not Work in the areas where there is currently a moratorium issued by the City. The areas subject to moratorium are listed as

provided here:

- a) Activities that disrupt plant operations are prohibited during summer, except as specified under Section 01 31 13 COORDINATION, unless otherwise approved in writing by the Owner.

- 2. To Attachment A Scope of Work, Item 3 Contract Time, Milestone 8, Page 32, **DELETE** in its entirety and **SUBSTITUTE** with the following:

Milestone 8	Substantial Completion	870 Working Days after Notice to Proceed
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- 3. To Attachment E Supplementary Special Provisions, Section 6 – Prosecution and Progress of Work, Section 6-9 Liquidated Damages, Item 3, Page 164, **DELETE** Milestone 8 in table and **SUBSTITUTE** with the following:

Milestone 8	Substantial Completion	870 Working Days after Notice to Proceed	\$15,100/Calendar Day
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- 4. To Technicals (Package 2), Section 01 29 00 Payment Procedures, Part 1 General, Item 1.11 Bid Items, Sub-Item B, numeral 2, letter b, Page 209, **DELETE** in its entirety and **SUBSTITUTE** with the following:

- b. General: All site civil grading and storm drainage infrastructure.

- 5. To Technicals (Package 2), Section 01 29 00 Payment Procedures, Part 1 General, Item 1.11 Bid Items, Sub-Item B, numeral 2, letter c, number 1), Page 209, **DELETE** in its entirety and **SUBSTITUTE** with the following:

- 1) Civil demolition work, grading, and storm drainage infrastructure as shown on Drawings and as specified.

- 6. To Technicals (Package 2), Section 01 29 00 Payment Procedures, Part 1 General, Item 1.11 Bid Items, Sub-Item B, numeral 3, letter b, Page 209, **DELETE** in its entirety and **REPLACE** with the following:

- b. General: All yard piping, utility locates, and utility potholes.

7. To Technicals (Package 2), Section 01 29 00 Payment Procedures, Part 1 General, Item 1.11 Bid Items, Sub-Item B, numeral 3, letter c, number 1, Page 209, **DELETE** in its entirety and **REPLACE** with the following:
 - 1) All yard piping and ancillary facilities and infrastructure shown on Drawings and as specified, and utility locates and potholes as specified.

8. To Technicals (Package 2), Section 01 29 00 Payment Procedures, Part 1 General, Item 1.11 Bid Items, Sub-Item B, numeral 16, letter b, Page 217, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - b. General: Includes modifications to Disinfection Feed Facility 57 and modifications to Chemical Facility 55. Modifications in the existing chemical facility to include new polymer and phosphoric acid systems.

9. To Technicals (Package 2), Section 01 29 00 Payment Procedures, Part 1 General, Item 1.11 Bid Items, Sub-Item B, numeral 16, letter c, number 3), Page 217, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - 3) Modifications to Facility 57 Disinfection Feed Facility 57 as shown on the Drawings.

10. To Technicals (Package 2), Section 01 29 00 Payment Procedures, Part 1 General, Item 1.11 Bid Items, Sub-Item B, numeral 16, letter c, Page 217, **ADD** the following after number 3):
 - 4) Payment under this Bid Item shall be made as the lump sum price named in the Bid Schedule.

11. To Technicals (Package 2), Section 01 31 13 Project Coordination, Part 1 General, Item 1.05 Project Milestones, page 233, **ADD** the following after sub-section A:
 - B. The Contractor shall submit for approval the 60-inch diameter and 42-inch diameter Raw Sewer valves at the RS Vault and any other long lead critical equipment within 10 Working Days from Notice to Proceed.

12. To Technicals (Package 2), Section 01 31 13 Project Coordination, Part 1 General, Item 1.06 Work Sequencing/Constraints, Sub-Item B, Page 233, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - B. Second Stage Bioreactor Basin Construction: Coordination with the Construction Manager is required prior to the start of construction of the second stage bioreactor basins to establish available working area, obtain approval of proposed shoring system, and coordinate efforts with the Morena Pump Station and Conveyance Project Contractor to avoid conflicts and interferences between the two projects. Relocation of utilities, including four unaccounted for Connex boxes, may be required multiple times throughout the course of construction. Utility locates and potholing of existing utilities project wide prior to the start of construction as required by the contract documents shall be coordinated with the Construction Manager at all times.

13. To Technicals (Package 2), Section 01 57 13 Temporary Erosion and Sediment Control, Part 1 General, Item 1.03 System Description, Sub-Item G, numeral 8, Page 421, **ADD** the following after letter b:
 - c. Coordination with the Construction Manager on the completed Stormwater Pollution Prevention Plan for the North City Water Reclamation Plant Expansion Package 4 – NCWRP Early Sitework and Ozone/BAC Relocation.

14. To Technicals (Package 2), Section 01 91 14 Testing, Integration, and Startup, Part 1 General, Item 1.02 Definitions, Sub-Item L, Page 472, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - L. Integration Period: This is the period occurring after Intermediate Substantial Completion and before substantial completion during which the NCWRP Facility Expansion will be tested and operated as part of the overall Pure Water Phase 1 system, including the Morena Force Main and Pump Station, the NCPWF Influent Pump Station and Conveyance, the NCPWF, the Metropolitan Biosolids Center Improvements, the NCPWF Pump Station and the North City Pure Water Pipeline, and Dechlorination Facilities.

15. To Technicals (Package 2), Section 01 91 14 Testing, Integration, and Startup, Part 1 General, Item 1.02 Definitions, Page 474, **ADD** the following after Sub-Item CC:

DD. Pure Water Phase 1 Joint Text Group (PW1JTG): Workgroup consisting of personnel from the Engineer, Construction Manager (Plants and Conveyance), Owner, Contractors and Subcontractors, whose goal is to coordinate startup of the Pure Water Phase 1 system during the Integration Period.

16. To Technicals (Package 2), Section 01 91 14 Testing, Integration, and Startup, Part 1 General, Item 1.04 Joint Test Group (JTG), Sub-Item C, Page 477, **ADD** the following after numeral 5:

6. Meetings to Support PW1JTG: attend meetings to support PW1JTG activities related to Phase 1 system startup.

17. To Technicals (Package 2), Section 01 91 14 Testing, Integration, and Startup, Part 3 Execution, Item 3.06 Operational Readiness Test, Page 492, **ADD** the following after Sub-Item B:

- C. The Operations Readiness Testing shall be broken into two parts. The Operational Readiness Test Part 1 shall be performed by the PIC Integrator to test and document the PIC, excluding DCSP provided applications software, is ready for operation. The Operational Readiness Test Part 2 shall be a coordinated effort between the Contractor, PIC System Integrator, and DCSP to confirm the PIC, including the applications software is ready for operation

18. To Technicals (Package 2), Section 01 91 14 Testing Integration, and Startup, Part 3 Execution, Item 3.11 Integration Period Testing, Sub-Item C, Page 495, **DELETE** in its entirety and SUBSTITUTE with the following:

- C. The 120-Day Integration Period consists of the 120-day period starting with NCPWF Intermediate Substantial Completion. It is anticipated that the Integration Period will start approximately 768 Working Days after the NCWRP Expansion Notice to Proceed. The integration period starts after NCWRP Expansion Intermediate Substantial Completion to allow a gradual flow increase through the expanded NCWRP treatment process and NCPWF Intermediate Substantial Completion.

19. To Technicals (Package 2), Section 01 91 14 Testing, Integration, and Startup, Part 3 Execution, Item 3.11 Integration Period Testing, Page 496, **ADD** the following after Sub-Item G:
- H. Contractor shall provide Pure Water Phase 1 System Support for the entire duration of the Integration Period as described below.
1. All costs for System Support shall be included in the bid.
 2. The Contractor's onsite support personnel shall include the Startup Manager and other staff as necessary, and supplies, tools and testing equipment need to operate and maintain the equipment and facilities constructed.
 3. Contractor shall provide a minimum of two personnel on a 3-shift, 24-hour per day, 7-day per week basis to operate and maintain the Work for the entire duration of the Integration Period as directed by the Construction Manager. Personnel shall be properly trained, experienced, and qualified to operate and maintain the Work. The Contractor shall submit credentials of said personnel demonstrating proper training and qualifications. The Construction Manager shall be the sole judge as to the suitability of the personnel to be provided.
 4. In addition to operation and maintenance personnel providing the Pure Water Phase 1 System Support described previously, Contractor shall keep on standby and provide technicians who participated in the installation of the local fiber optic/DCS network, serial links, instruments, and all control wiring at the various facilities included in the Work. A minimum of two technicians shall be onsite 8 hours per day, 6 days per week, during the Integration Period and on call 24 hours per day, 7 days per week. All technicians used during the Integration Period shall have a thorough understanding of the system and be capable of taking corrective action as needed.

20. To Technicals (Package 2), Section 01 91 14 Testing, Integration, and Startup, Part 3 Execution, Item 3.11 Integration Period Testing, Page 496, **ADD** the following after Sub-Item H:
 - I. Contractor shall provide Pure Water Phase 1 System Support for the entire duration of the Integration Period as described below.
21. To Technicals (Package 2), Section 01 91 14 Testing, Integration, and Startup, Part 3 Execution, Item 3.14 Supplements, Page 499, **DELETE** Supplement 1 and **SUBSTITUTE** with the attached Supplement 1 on page 79 of this Addendum.
22. To Technicals (Package 2), Section 01 91 14 Testing, Integration, and Startup, Part 3 Execution, Item 3.14 Supplements, Page 500, **DELETE** Supplement 2 and **SUBSTITUTE** with the attached Supplement 2 on pages 80 through 81 of this Addendum.
23. To Technicals (Package 2), Section 05 05 23 Welding, Part 2 Products, Item 2.01 Source Quality Control, Sub-Item A, Page 738, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - A. Contractor's or Supplier's CWI shall be present whenever shop welding is performed. CWI shall perform inspection at suitable intervals, prior to assembly, during assembly, during welding, and after welding. CWI shall perform inspection as required in AWS D1.1/D1.1M or referenced welding code and as follows:
 1. Verifying conformance of specified job material and proper storage.
 2. Monitoring conformance with approved WPS.
 3. Monitoring conformance of WPQ.
 4. Inspecting weld joint fit-up and performing in-process inspection.
 5. Providing 100 percent visual inspection of welds.
 6. Coordinating with nondestructive testing personnel and reviewing NDE results.
 7. Maintaining records and preparing reports documenting that results of CWI VT and subsequent NDE testing comply with the Work and referenced welding codes.

24. To Technicals (Package 2), Section 05 12 00 Structural Steel Framing, Part 2 Products, Item 2.06 Source Quality Control, sub-section B, Page 752, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- B. Heavy Shapes and Plates: Thermally cut surfaces of beam copes and weld access holes shall be inspected and tested by an independent testing agency, retained by fabricator, in accordance with AISC 360, Paragraph J1.6.
25. To Technicals (Package 2), Section 05 12 00 Structural Steel Framing, Part 2 Products, Item 2.06 Source Quality Control, sub-section C, numeral 3, Page 753, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- 3. An independent testing agency shall be retained by fabricator to perform the inspection and testing of fabrication welds as specified in Section 05 05 23, Welding.
26. To Technicals (Package 2), Section 05 12 00 Structural Steel Framing, Part 2 Products, Item 2.06 Source Quality Control, sub-section D, numeral 1, Page 753, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- 1. An independent testing agency shall be retained by fabricator to inspect and test hot-dip galvanized fabricated items in accordance with applicable ASTM standards.
27. To Technicals, Section 05 12 00 Structural Steel Framing, Part 2 Products, Item 2.06 Source Quality Control, Page 753, **ADD** the following after sub-section D:
- E. Special inspection of fabrication process and shop welding will be provided by the fabricator.
 - 1. Fabricators must be approved by the City of San Diego's Development Services Department in accordance with Technical Bulletin BLDG-17-3. Coordinate with Construction Manager prior to and during approval process.

28. To Technicals (Package 2), Section 05 41 00 Structural Metal Stud Framing, Part 2 Products, Item 2.06 Source Quality Control, Sub-item A, Page 772, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- A. Special inspection of fabrication process and shop welding for light-gauge steel trusses shall be provided by the fabricator.
29. To Technicals (Package 2), Section 05 52 16 Aluminum Railings, Part 1 General, Item 1.01 References, Sub-Item A, Page 799, **ADD** the following after numeral 7:
8. Military Specification, MIL-A-8625F Anodic Coatings for Aluminum and Aluminum Alloys
30. To Technicals (Package 2), Section 05 52 16 Aluminum Railing, Part 1 Products, Item 2.01 Aluminum Railings, Sub-Item A, Page 803, **ADD** the following after numeral 5:
6. All aluminum members shall be anodized per MIL-A-8625, Type II, Class 1 (non-dyed) with a minimum thickness of 0.8 mils
31. To Technicals (Package 2), Section 26 20 00 Low-Voltage AC Induction Motors, Part 1 General, Item 1.04 Submittals, Sub-Item B, numeral 2, Page 1443, **DELETE** in its entirety.
32. To Technicals (Package 2), Section 31 63 29 Drilled Concrete Piers and Shafts, Part 3 Execution, Item 3.01 Method Test Shafts, Sub-Item A, Page 1705, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- A. The Contractor shall demonstrate the adequacy of the methods and equipment to be employed for excavating shafts by successfully constructing method test shafts. A minimum of one test shaft at the middle of the layout shall be constructed. The method test shafts shall include drilling, reinforcing steel, thread bars, and concrete placement.
33. To Technicals (Package 2), Section 31 63 29 Drilled Concrete Piers and Shafts, Part 3 Execution, Item 3.02 Load Tests, Sub-Item A, numeral 1, Page 1705, **DELETE** in its entirety and **SUBSTITUTE** with the following:
1. The Contractor shall perform compression load tests to determine whether the shafts can carry and withstand the imposed loads. A

minimum of one load test shall be preformed on the method test shaft installed. Except for shafts required for testing, additional shaft construction will not be permitted until the load tests are completed.

34. To Technicals (Package 2), Section 40 27 01 Process Piping Specialties, Part 2 Products, Item 2.11 Outlet/Tapping Saddles, Sub-Item A, Page 2060, **ADD** the following after numeral 3:

4. For tapping valve and sleeve combination, manufacturer shall provide both valve and sleeve.

35. To Technicals (Package 2), Section 40 27 02 Process Valves and Operators, Part 2 Products, Item 2.05 Valves, Sub-Item G, Page 2096, **ADD** the following after numeral 10:

11) Type V730 Pressure-Relief Valve 2 Inches and Smaller

- a. Direct diaphragm, spring controlled, 316 SST body and spring case, EPDM seat and diaphragm, stainless steel valve stem, NPT threaded ends, 200 psi rated.
- b. Opens when upstream pressure reaches a set point.
- c. Size/Rating: As shown in Self-Regulated Valve Schedule.
- d. Manufacturer and Product: Fisher; 98 Series.

36. To Technicals (Package 2), Section 40 90 00 Instrumentation and Control, Part 3 Execution, Item 3.11 Supplements, Sub-Item A, numeral 1, Page 2163, **ADD** the following to page 5 of the Instrument List:

50230	50FET230	Stormwater Pumps Flow	F04	Flow Element & Transmitter, Electromagnetic	N01-N- 160B	4091- 219
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37. To Technicals (Package 2), Section 40 90 00 Instrumentation and Control, Part 3 Execution, Item 3.11 Supplements, Sub-Item A, numeral 2, Page 2171, **ADD** data sheets for 50FET230, 50LET240, 50LSHH250, and 50PI211 to Volume 5B with pages 82 through 85 of this Addendum.

38. To Technicals (Package 2), Section 40 90 06 DCS Bill of Materials and Quantities, Table A-11, Item Analog Input [HART] Module, Qty, Page 2225, **DELETE** 2 and **SUBSTITUTE** with 3.

39. To Technicals (Package 2), Section 40 94 24 Process Inputs/Outputs (I/O), Part 3 Execution, Item 3.02 Supplements, Drop 14 23PCM01 Location 1.1.3, Page 2370, **DELETE** in its entirety and **SUBSTITUTE** with the following:

DROP14	23PCM01	5X00106G01	N50LET240	STORMWATER SUMP LEVEL	0	15 Feet	AI-HART	1.1.3.1
DROP14	23PCM01	5X00106G01	N50LSHH250	STORMWATER SUMP LEVEL	HIGH	NORMAL	AI-HART	1.1.3.2
DROP14	23PCM01	5X00106G01	N50FET230	STORMWATER PUMPS FLOW	0	2000 gpm	AI-HART	1.1.3.3
DROP14	23PCM01	5X00106G01	SPARE				AI-HART	1.1.3.4
DROP14	23PCM01	5X00106G01	SPARE				AI-HART	1.1.3.5
DROP14	23PCM01	5X00106G01	SPARE				AI-HART	1.1.3.6
DROP14	23PCM01	5X00106G01	SPARE				AI-HART	1.1.3.7
DROP14	23PCM01	5X00106G01	SPARE				AI-HART	1.1.3.8

40. To Technicals (Package 2), Section 44 42 25.01 Prefabricated Aluminum Covers, Part 2 Products, Item 2.02 Dome Covers, Sub-Item A, Page 4288, **DELETE** in its entirety and **REPLACE** with the following:

A. Dome Framing System: Fully triangulated aluminum space truss with aluminum panels. The completed dome shall be clear-span normal, rise structure with a minimum dome height of 16 feet and maximum dome height of 25 feet. The maximum load of the dome on the secondary clarifier tank shall not exceed 105 kips. The dome shall be designed to be self-supporting from the tank wall, and with horizontal thrust due to gravity loading contained by an integral tension ring. Make allowance for thermal expansion and contraction.

41. To Technicals (Package 2), Section 44 42 25.01 Prefabricated Aluminum Covers, Part 2 Products, Item 2.03 Design, Sub-Item D, Page 4289, **DELETE** in its entirety and **REPLACE** with the following:

D. Each dome shall have a minimum of eight equally spaced louvers around the circumference of the dome's base. Louvers shall be installed in the vertical position. Reference Section 08 90 00, Louvers, for louver requirements. The required free area of the louvers and fan shall be designed such that the covered area, including the volume above the water surface to the top of the clarifier wall and the volume of the dome, meets the required 6 air changes per hour. Contract documents are based on a 16-foot

dome height. If the secondary clarifier dome furnished by the Contractor is not 16-feet in height, Contractor shall provide updated fan capacity sizing, motor sizing, and electrical requirements for approval by the Design Engineer. Contractor to provide adjustments to the electrical system and HVAC system for variations from the Contract Documents for approval by the Design Engineer. Coordinate with Division 26, Division 23, and all other applicable Divisions of the specifications for the systems impacted.

42. To Technicals (Package 2), Section 44 42 56.04 Submersible Pumps, Equipment and Component Number(s), Page 4363, **ADD** the following:

50P201: Storm Drain Pump No. 1

50P202: Storm Drain Pump No. 2
43. To Technicals (Package 2), Section 44 42 56.04 Submersible Pumps, Part 3 Execution, Item 3.05 Supplement, Sub-Item A, Page 4369, **ADD** the following after numeral 1:
 2. Storm Water Pumps No. 1-2 Data Sheet. See pages 86 through 87 of this Addendum D.
44. To Technicals (Package 2), Section 44 42 56.04 Submersible Pumps, Part 3 Execution, Item 3.05 Supplement, Sub-Item A, numeral 1 Intermediate Pumps No. 1-5 Data Sheet, Page 4371, **DELETE** "Screw-Induced Flow Centrifugal Pumps" from the page footer and **SUBSTITUTE** with "Submersible Pumps".
45. To Technicals (Package 3), Section 05 05 23 Welding, Part 2 Products, Item 2.01 Source Quality Control, Sub-Item A, Page 4810, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - A. Contractor's or Supplier's CWI shall be present whenever shop welding is performed. CWI shall perform inspection at suitable intervals, prior to assembly, during assembly, during welding, and after welding. CWI shall perform inspection as required in AWS D1.1/D1.1M or referenced welding code and as follows:
 1. Verifying conformance of specified job material and proper storage.

2. Monitoring conformance with approved WPS.
 3. Monitoring conformance of WPQ.
 4. Inspecting weld joint fit-up and performing in-process inspection.
 5. Providing 100 percent visual inspection of welds.
 6. Coordinating with nondestructive testing personnel and reviewing NDE results.
 7. Maintaining records and preparing reports documenting that results of CWI VT and subsequent NDE testing comply with the Work and referenced welding codes.
46. To Technicals (Package 3), Section 05 52 16 Aluminum Railings, Part 1 General, Item 1.01 References, Sub-Item A, Page 4835, **ADD** the following after numeral 7:
8. Military Specification, MIL-A-8625F Anodic Coatings for Aluminum and Aluminum Alloys.
47. To Technicals (Package 3), Section 05 52 16 Aluminum Railing, Part 1 Products, Item 2.01 Aluminum Railings, Sub-Item A, Page 4838, **ADD** the following after numeral 4:
5. All alluminum members shall be anodized per MIL-A-8625, Type II, Class 1 (non-dyed) with a minimum thickness of 0.8 mils.
48. To Technicals (Package 3), Section 26 20 00 Low-Voltage AC Induction Motors, Part 1 General, Item 1.04 Submittals, Sub-Item B, numeral 2, Page 5263, **DELETE** in its entirety.
49. To Technicals (Package 3), Section 44 42 56.03 Vertical Turbine Pumps, Part 1 General, Item 1.03 Submittals, Sub-Item A, Page 5987, **ADD** the following after numeral 16:
17. Fabrication drawing of the flow conditioning basket.

18 . Physical Hydraulic Modeling

- a. Physical model test procedures including model outline drawings, scale selection, and data collection procedures for approval by Design Engineer prior to proceeding with the physical model study. Test procedures shall be submitted within 2-weeks of being given Notice-To-Proceed.
- b. Technical Summary Report for review by Design Engineer. Draft Technical Summary Report shall be completed and submitted with 8 weeks from Engineer's approval of the test procedures.
 - 1) The report shall include dimensioned drawings of the constructed model in model and prototype scale.
 - 2) The report shall include certificates of calibration of all instruments used for measurement.
 - 3) The report shall describe the general conditions and configurations for the model runs, including flow rate, active pumps, active pipes, water surface levels, and any other relevant criteria.
 - 4) The boundary conditions applied at the fluid domain inlet/outlets shall be stated explicitly.
 - 5) Comparative calculations such as 1D engineering correlations shall be included to show the general accuracy of the model as well as to provide a check on boundary conditions and assumptions.
 - 6) Results shall be presented to clearly show key flow features using photographs and video of the observations and other suitable means.
 - 7) A section shall be included summarizing conclusions from the analysis.
 - 8) A set of recommendations shall be presented based on the conclusions.
 - 9) Submit 2 hardcopies of draft report and a soft copy. Draft report soft copy shall be in .PDF format.
 - 10) Incorporate review comments and submit final report. Submit 2 hardcopies of final report and 1 soft copy.

Final report shall include written response to review comments, a PDF copy of the full report, and all source files in the native format including, but not limited to, report text, results data, figures, photographs, CAD geometry files, etc.

11) All CAD geometry files shall be submitted in Microstation format.

c. Result files

1) CAD geometry files shall be submitted where appropriate.

2) Results data shall be made available in digital format upon request.

3) Result files shall be submitted with the Technical Summary Report.

50. To Technicals (Package 3), Section 44 42 56.03 Vertical Turbine Pumps, Part 2 Products, Item 2.01 General, Sub-item B, Page 5988, **DELETE** in its entirety and **SUBSTITUTE** with the following:

B. Provide a complete, coordinated, and fully functional operating system. Provide each specified pumping unit. Each pumping unit shall consist of a pump motor, adjustable speed drive, flow conditioning basket, couplings, base, sole plate, and all appurtenances to provide a complete pumping system.

51. To Technicals (Package 3), Section 44 42 56.03 Vertical Turbine Pumps, Part 2 Products, Item 2.01 General, Page 5990, **ADD** the following after Sub-item I:

J. Flow Conditioning Basket: Flow conditioning basket shall be Type 316L stainless steel. Preliminary design of the flow conditioning basket is attached as a supplement to this section. Final design shall be furnished by the pump supplier based on the physical hydraulic model results and shall be submitted after the results are accepted. Pump manufacturer standard vortex suppression basket designs are not acceptable.

52. To Technicals (Package 3), Section 44 42 56.03 Vertical Turbine Pumps, Part 2 Products, Item 2.06 Factory Finishing, Page 5993, **ADD** the following after Sub-Item B:
- C. Flow conditioning basket shall be pickled and passivated per ASTM A967 after fabrication.
53. To Technicals (Package 3), Section 44 42 56.03 Vertical Turbine Pumps, Part 2 Products, Page 5995, **ADD** the following after Item 2.07 Source Quality Control:

2.08 Physical Hydraulic Modeling

- A. Contractor shall conduct a Froude-scaled geometrically similar undistorted 3-dimensional physical hydraulic model study of all five pumps and cans in compliance with ANSI/HI-9.8 2018 Hydraulic Institute Standards. Prior to proceeding with the model study the Contractor shall submit model test procedures including model outline drawings, scale selection, and data collection procedures for approval by Design Engineer. If necessary, modifications shall be developed and proposed to ensure conditions are compliant with the Standard. Modifications such as turning vanes, and other internal features may be considered. No changes to the inlet pipe or can size shall be considered unless approved by the Design Engineer. For bidding purposes, assume that at least 8 baseline tests, and at least 16 final documentation tests, including video will be conducted. The test procedures shall be submitted within 2 weeks of being given Notice-To-Proceed and the Draft Technical Summary Report shall be completed within 8 weeks from Design Engineer's approval of the test procedures. Specific test conditions shall be coordinated with the Design Engineer. The model study shall be conducted by a professionally recognized and independent hydraulic modeling laboratory regularly engaged in modeling can type pump stations. The study shall be managed by a Professional Engineer with experience conducting physical model studies. Acceptable modeling labs are Clemson Engineering Hydraulics of Anderson SC, Alden laboratories of Holden MA, and Northwest Hydraulics of Seattle, WA.

54. To Technicals (Package 3), Section 44 42 56.03 Vertical Turbine Pumps, Part 3 Execution, Item 3.05 Supplement, Sub-item A, Page 5996, **ADD** the following after numeral 1:
 2. Flow Conditioning Basket. See page 88 of this Addendum D.

E. PLANS

1. The following Drawing Sheets for PACKAGE 2 Plans have been modified as shown below. See pages 89 through 93 of this Addendum.
 - a) **DELETE** in their entirety and **REPLACE**:
40381-2005B-D, No. PK2-G-005B (Previous edits in all addenda)
40381-20148-D, No. PK2-L-601 (Previous edits in Addendum A)
40381-2282-D, No. PK2-E-749 (Previous edits in Addendum A and C)
40381-2926-D, No. PK2-70-E-633
 - b) **ADD** the following new drawing sheets:
40381-2806B-D, No. PK2-50-E-100

James Nagelvoort, Director
Engineering & Capital Projects Department

Dated: *March 3, 2021*
San Diego, California

JN/RWB/mlw

10. DAVIS-BACON WAGE RATES AND PROVISIONS:

10.1. WAGE RATES This contract shall be subject to the following Davis-Bacon Wage Decisions:

"General Decision Number: CA20210001 01/08/2021

Superseded General Decision Number: CA20200001

State: California

Construction Types: Building, Heavy (Heavy and Dredging), Highway and Residential

County: San Diego County in California.

BUILDING CONSTRUCTION PROJECTS; DREDGING PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); HIGHWAY CONSTRUCTION PROJECTS; RESIDENTIAL CONSTRUCTION PROJECTS (consisting of single family homes and apartments up to and including 4 stories)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/01/2021
1	01/08/2021

ASBE0005-002 07/06/2020

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems).....	\$ 45.39	23.74
Fire Stop Technician (Application of Firestopping Materials for wall openings and penetrations in walls, floors, ceilings and curtain walls).....	\$ 28.92	18.73

ASBE0005-004 07/01/2019

	Rates	Fringes
Asbestos Removal worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)....	\$ 20.63	12.17

BOIL0092-003 03/01/2018

	Rates	Fringes
BOILERMAKER.....	\$ 44.07	33.52

BRCA0004-008 11/01/2019

	Rates	Fringes
BRICKLAYER; MARBLE SETTER.....	\$ 39.60	18.05

BRCA0018-004 06/01/2019

	Rates	Fringes
MARBLE FINISHER.....	\$ 33.43	14.11
TILE FINISHER.....	\$ 28.23	12.65
TILE LAYER.....	\$ 40.07	18.36

BRCA0018-010 09/01/2020

	Rates	Fringes
TERRAZZO FINISHER.....	\$ 33.66	14.20
TERRAZZO WORKER/SETTER.....	\$ 41.60	14.73

CARP0409-002 07/01/2016

	Rates	Fringes
Diver		
(1) Wet.....	\$ 712.48	17.03
(2) Standby.....	\$ 356.24	17.03
(3) Tender.....	\$ 348.24	17.03
(4) Assistant Tender.....	\$ 324.24	17.03

Amounts in ""Rates' column are per day

 CARP0409-008 08/01/2010

	Rates	Fringes
Modular Furniture Installer.....	\$ 17.00	7.41

 CARP0547-001 07/01/2018

	Rates	Fringes
CARPENTER		
(1) Bridge.....	\$ 42.34	19.17
(2) Commercial Building....	\$ 37.11	19.17
(3) Heavy & Highway.....	\$ 42.21	19.17
(4) Residential Carpenter..	\$ 29.69	19.17
(5) Residential Insulation Installer.....	\$ 18.00	8.16
MILLWRIGHT.....	\$ 42.71	19.17
PILEDRIVERMAN.....	\$ 42.34	19.17

 CARP0547-002 07/01/2017

	Rates	Fringes
Drywall		
(1) Work on wood framed construction of single family residences, apartments or condominiums under four stories Drywall Installer/Lather...\$	22.95	18.85
Drywall Stocker/Scrapper...\$	12.50	12.27
(2) All other work Drywall Installer/Lather...\$	32.00	17.63
Drywall Stocker/Scrapper...\$	12.50	12.27

 ELEC0569-001 06/01/2020

	Rates	Fringes
Electricians (Tunnel Work)		
Cable Splicer.....	\$ 51.38	3%+14.88
Electrician.....	\$ 50.63	3%+14.88
Electricians: (All Other Work, Including 4 Stories Residential)		
Cable Splicer.....	\$ 45.75	3%+14.88
Electrician.....	\$ 45.00	3%+14.88

 ELEC0569-004 06/01/2020

	Rates	Fringes
ELECTRICIAN (Sound & Communications Sound Technician).....	\$ 33.95	13.55
SCOPE OF WORK Assembly, installation, operation, service and maintenance of components or systems as used in closed circuit television, amplified master television distribution, CATV on private property, intercommunication, burglar alarm, fire alarm, life support and all security alarms, private and public telephone and related telephone interconnect, public address, paging, audio, language, electronic, background music system less than line voltage or any system acceptable for		

class two wiring for private, commercial, or industrial use furnished by leased wire, frequency modulation or other recording devices, electrical apparatus by means of which electricity is applied to the amplification, transmission, transference, recording or reproduction of voice, music, sound, impulses and video. Excluded from this Scope of Work - transmission, service and maintenance of background music. All of the above shall include the installation and transmission over fiber optics.

 ELEC0569-005 06/01/2020

	Rates	Fringes
Sound & Communications		
Sound Technician.....	\$ 33.95	13.55
SCOPE OF WORK Assembly, installation, operation, service and maintenance of components or systems as used in closed circuit television, amplified master television distribution, CATV on private property, intercommunication, burglar alarm, fire alarm, life support and all security alarms, private and public telephone and related telephone interconnect, public address, paging, audio, language, electronic, background music system less than line voltage or any system acceptable for class two wiring for private, commercial, or industrial use furnished by leased wire, frequency modulation or other recording devices, electrical apparatus by means of which electricity is applied to the amplification, transmission, transference, recording or reproduction of voice, music, sound, impulses and video. Excluded from this Scope of Work - transmission, service and maintenance of background music. All of the above shall include the installation and transmission over fiber optics.		

SOUND TECHNICIAN: Terminating, operating and performing final check-out

 ELEC0569-006 10/01/2020

Work on street lighting; traffic signals; and underground systems and/or established easements outside of buildings

	Rates	Fringes
Traffic signal, street light and underground work		
Utility Technician #1.....	\$ 33.42	3%+7.70
Utility Technician #2.....	\$ 27.85	3%+7.70

STREET LIGHT & TRAFFIC SIGNAL WORK:

UTILITY TECHNICIAN #1: Installation of street lights and traffic signals, including electrical circuitry, programmable controller, pedestal-mounted electrical meter enclosures and laying of pre-assembled cable in ducts. The layout of electrical systems and communication installation including proper position of trench depths, and radius at duct banks, location for manholes, street lights and traffic signals.

UTILITY TECHNICIAN #2: Distribution of material at jobsite, installation of underground ducts for electrical,

telephone, cable TV land communication systems. The setting, leveling, grounding and racking of precast manholes, handholes and transformer pads.

 ELEC0569-008 08/31/2020

	Rates	Fringes
ELECTRICIAN (Residential, 1-3 Stories).....	\$ 35.74	7.68

 ELEC1245-001 06/01/2020

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer..	\$ 59.14	20.78
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment).....	\$ 47.24	19.59
(3) Groundman.....	\$ 36.12	19.19
(4) Powderman.....	\$ 51.87	18.79

HOLIDAYS: New Year's Day, M.L. King Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day and day after Thanksgiving, Christmas Day

 * ELEV0018-001 01/01/2021

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 59.32	35.825+a+b

FOOTNOTE:

- a. PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service.
- b. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, Friday after Thanksgiving, and Christmas Day.

 ENGI0012-003 07/01/2020

	Rates	Fringes
OPERATOR: Power Equipment (All Other Work)		
GROUP 1.....	\$ 48.25	27.20
GROUP 2.....	\$ 49.03	27.20
GROUP 3.....	\$ 49.32	27.20
GROUP 4.....	\$ 50.81	27.20
GROUP 5.....	\$ 48.96	25.25
GROUP 6.....	\$ 51.03	27.20
GROUP 8.....	\$ 51.14	27.20
GROUP 9.....	\$ 49.29	25.25
GROUP 10.....	\$ 51.26	27.20
GROUP 11.....	\$ 49.41	25.25

	Rates	Fringes
GROUP 12.....	\$ 51.43	27.20
GROUP 13.....	\$ 51.53	27.20
GROUP 14.....	\$ 51.56	27.20
GROUP 15.....	\$ 51.64	27.20
GROUP 16.....	\$ 51.76	27.20
GROUP 17.....	\$ 51.93	27.20
GROUP 18.....	\$ 52.03	27.20
GROUP 19.....	\$ 52.14	27.20
GROUP 20.....	\$ 52.26	27.20
GROUP 21.....	\$ 52.43	27.20
GROUP 22.....	\$ 52.53	27.20
GROUP 23.....	\$ 52.64	27.20
GROUP 24.....	\$ 52.76	27.20
GROUP 25.....	\$ 52.93	27.20
OPERATOR: Power Equipment (Cranes, Piledriving & Hoisting)		
GROUP 1.....	\$ 49.60	27.20
GROUP 2.....	\$ 50.38	27.20
GROUP 3.....	\$ 50.67	27.20
GROUP 4.....	\$ 50.81	27.20
GROUP 5.....	\$ 51.03	27.20
GROUP 6.....	\$ 51.14	27.20
GROUP 7.....	\$ 51.26	27.20
GROUP 8.....	\$ 51.43	27.20
GROUP 9.....	\$ 51.60	27.20
GROUP 10.....	\$ 52.60	27.20
GROUP 11.....	\$ 53.60	27.20
GROUP 12.....	\$ 54.60	27.20
GROUP 13.....	\$ 55.60	27.20
OPERATOR: Power Equipment (Tunnel Work)		
GROUP 1.....	\$ 50.10	27.20
GROUP 2.....	\$ 50.88	27.20
GROUP 3.....	\$ 51.17	27.20
GROUP 4.....	\$ 51.31	27.20
GROUP 5.....	\$ 51.53	27.20
GROUP 6.....	\$ 51.64	27.20
GROUP 7.....	\$ 51.76	27.20

PREMIUM PAY:

\$3.75 per hour shall be paid on all Power Equipment Operator work on the following Military Bases: China Lake Naval Reserve, Vandenberg AFB, Point Arguello, Seely Naval Base, Fort Irwin, Nebo Annex Marine Base, Marine Corp Logistics Base Yermo, Edwards AFB, 29 Palms Marine Base and Camp Pendleton

Workers required to suit up and work in a hazardous material environment: \$2.00 per hour additional. Combination mixer and compressor operator on gunite work shall be classified as a concrete mobile mixer operator.

SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bargeman; Brakeman; Compressor operator; Ditch Witch, with seat or similar type equipment; Elevator operator-inside; Engineer Oiler; Forklift operator

(includes loed, lull or similar types under 5 tons;
Generator operator; Generator, pump or compressor plant
operator; Pump operator; Signalman; Switchman

GROUP 2: Asphalt-rubber plant operator (nurse tank operator);
Concrete mixer operator-skip type; Conveyor operator;
Fireman; Forklift operator (includes loed, lull or similar
types over 5 tons; Hydrostatic pump operator; oiler crusher
(asphalt or concrete plant); Petromat laydown machine; PJU
side dum jack; Screening and conveyor machine operator (or
similar types); Skiploader (wheel type up to 3/4 yd.
without attachment); Tar pot fireman; Temporary heating
plant operator; Trenching machine oiler

GROUP 3: Asphalt-rubber blend operator; Bobcat or similar
type (Skid steer); Equipment greaser (rack); Ford Ferguson
(with dragtype attachments); Helicopter radioman (ground);
Stationary pipe wrapping and cleaning machine operator

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or
similar type); Boring machine operator; Boxman or mixerman
(asphalt or concrete); Chip spreading machine operator;
Concrete cleaning decontamination machine operator;
Concrete Pump Operator (small portable); Drilling machine
operator, small auger types (Texoma super economical or
similar types - Hughes 100 or 200 or similar types -
drilling depth of 30' maximum); Equipment greaser (grease
truck); Guard rail post driver operator; Highline cableway
signalman; Hydra-hammer-aero stomper; Micro Tunneling
(above ground tunnel); Power concrete curing machine
operator; Power concrete saw operator; Power-driven jumbo
form setter operator; Power sweeper operator; Rock Wheel
Saw/Trencher; Roller operator (compacting); Screed operator
(asphalt or concrete); Trenching machine operator (up to 6
ft.); Vacuum or much truck

GROUP 5: Equipment Greaser (Grease Truck/Multi Shift).

GROUP 6: Articulating material hauler; Asphalt plant
engineer; Batch plant operator; Bit sharpener; Concrete
joint machine operator (canal and similar type); Concrete
planer operator; Dandy digger; Deck engine operator;
Derrickman (oilfield type); Drilling machine operator,
bucket or auger types (Calweld 100 bucket or similar types
- Watson 1000 auger or similar types - Texoma 330, 500 or
600 auger or similar types - drilling depth of 45'
maximum); Drilling machine operator; Hydrographic seeder
machine operator (straw, pulp or seed), Jackson track
maintainer, or similar type; Kalamazoo Switch tamper, or
similar type; Machine tool operator; Maginnis internal full
slab vibrator, Mechanical berm, curb or gutter(concrete or
asphalt); Mechanical finisher operator (concrete,
Clary-Johnson-Bidwell or similar); Micro tunnel system
(below ground); Pavement breaker operator (truck mounted);
Road oil mixing machine operator; Roller operator (asphalt
or finish), rubber-tired earth moving equipment (single
engine, up to and including 25 yds. struck); Self-propelled
tar pipelining machine operator; Skiploader operator
(crawler and wheel type, over 3/4 yd. and up to and
including 1-1/2 yds.); Slip form pump operator (power
driven hydraulic lifting device for concrete forms);

Tractor operator-bulldozer, tamper-scraper (single engine, up to 100 h.p. flywheel and similar types, up to and including D-5 and similar types); Tugger hoist operator (1 drum); Ultra high pressure waterjet cutting tool system operator; Vacuum blasting machine operator

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator; Backhoe operator (up to and including 3/4 yd.), small ford, Case or similar; Cast-in-place pipe laying machine operator; Combination mixer and compressor operator (gunite work); Compactor operator (self-propelled); Concrete mixer operator (paving); Crushing plant operator; Drill Doctor; Drilling machine operator, Bucket or auger types (Calweld 150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types - drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator; Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 yds. struck); Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Self-propelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 yds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bending machine operator; Trenching machine operator (over 6 ft. depth capacity, manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity); Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

GROUP 9: Heavy Duty Repairman

GROUP 10: Drilling machine operator, Bucket or auger types (Calweld 200 B bucket or similar types-Watson 3000 or 5000 auger or similar types-Texoma 900 auger or similar types-drilling depth of 105' maximum); Dual drum mixer, dynamic compactor LDC350 (or similar types); Monorail locomotive operator (diesel, gas or electric); Motor patrol-blade operator (single engine); Multiple engine tractor operator (Euclid and similar type-except Quad 9 cat.); Rubber-tired earth-moving equipment operator (single

engine, over 50 yds. struck); Pneumatic pipe ramming tool and similar types; Prestressed wrapping machine operator; Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Rubber tired earth moving equipment operator (multiple engine, Euclid, caterpillar and similar over 25 yds. and up to 50 yds. struck), Tower crane repairman; Tractor loader operator (crawler and wheel type over 6-1/2 yds.); Woods mixer operator (and similar Pugmill equipment)

GROUP 11: Heavy Duty Repairman - Welder Combination, Welder - Certified.

GROUP 12: Auto grader operator; Automatic slip form operator; Drilling machine operator, bucket or auger types (Calweld, auger 200 CA or similar types - Watson, auger 6000 or similar types - Hughes Super Duty, auger 200 or similar types - drilling depth of 175' maximum); Hoe ram or similar with compressor; Mass excavator operator less tha 750 cu. yards; Mechanical finishing machine operator; Mobile form traveler operator; Motor patrol operator (multi-engine); Pipe mobile machine operator; Rubber-tired earth- moving equipment operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck); Rubber-tired self- loading scraper operator (paddle-wheel-auger type self-loading - two (2) or more units)

GROUP 13: Rubber-tired earth-moving equipment operator operating equipment with push-pull system (single engine, up to and including 25 yds. struck)

GROUP 14: Canal liner operator; Canal trimmer operator; Remote- control earth-moving equipment operator (operating a second piece of equipment: \$1.00 per hour additional); Wheel excavator operator (over 750 cu. yds.)

GROUP 15: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine-up to and including 25 yds. struck)

GROUP 16: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 17: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 50 cu. yds. struck); Tandem tractor operator (operating crawler type tractors in tandem - Quad 9 and similar type)

GROUP 18: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, up to and including 25 yds. struck)

GROUP 19: Rotex concrete belt operator (or similar types); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, up to and including 25 yds. struck)

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 21: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

GROUP 22: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, up to and including 25 yds. struck)

GROUP 23: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating with the tandem push-pull system (multiple engine, up to and including 25 yds. struck)

GROUP 24: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 25: Concrete pump operator-truck mounted; Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

CRANES, PILEDIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

GROUP 1: Engineer oiler; Fork lift operator (includes loed, lull or similar types)

GROUP 2: Truck crane oiler

GROUP 3: A-frame or winch truck operator; Ross carrier operator (jobsite)

GROUP 4: Bridge-type unloader and turntable operator;
Helicopter hoist operator

GROUP 5: Hydraulic boom truck; Stinger crane (Austin-Western
or similar type); Tugger hoist operator (1 drum)

GROUP 6: Bridge crane operator; Cretor crane operator; Hoist
operator (Chicago boom and similar type); Lift mobile
operator; Lift slab machine operator (Vagtborg and similar
types); Material hoist and/or manlift operator; Polar
gantry crane operator; Self Climbing scaffold (or similar
type); Shovel, backhoe, dragline, clamshell operator (over
3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

GROUP 7: Pedestal crane operator; Shovel, backhoe, dragline,
clamshell operator (over 5 cu. yds. mrc); Tower crane
repair; Tugger hoist operator (3 drum)

GROUP 8: Crane operator (up to and including 25 ton
capacity); Crawler transporter operator; Derrick barge
operator (up to and including 25 ton capacity); Hoist
operator, stiff legs, Guy derrick or similar type (up to
and including 25 ton capacity); Shovel, backhoe, dragline,
clamshell operator (over 7 cu. yds., M.R.C.)

GROUP 9: Crane operator (over 25 tons and up to and including
50 tons mrc); Derrick barge operator (over 25 tons up to
and including 50 tons mrc); Highline cableway operator;
Hoist operator, stiff legs, Guy derrick or similar type
(over 25 tons up to and including 50 tons mrc); K-crane
operator; Polar crane operator; Self erecting tower crane
operator maximum lifting capacity ten tons

GROUP 10: Crane operator (over 50 tons and up to and
including 100 tons mrc); Derrick barge operator (over 50
tons up to and including 100 tons mrc); Hoist operator,
stiff legs, Guy derrick or similar type (over 50 tons up to
and including 100 tons mrc), Mobile tower crane operator
(over 50 tons, up to and including 100 tons M.R.C.); Tower
crane operator and tower gantry

GROUP 11: Crane operator (over 100 tons and up to and
including 200 tons mrc); Derrick barge operator (over 100
tons up to and including 200 tons mrc); Hoist operator,
stiff legs, Guy derrick or similar type (over 100 tons up
to and including 200 tons mrc); Mobile tower crane operator
(over 100 tons up to and including 200 tons mrc)

GROUP 12: Crane operator (over 200 tons up to and including
300 tons mrc); Derrick barge operator (over 200 tons up to
and including 300 tons mrc); Hoist operator, stiff legs,
Guy derrick or similar type (over 200 tons, up to and
including 300 tons mrc); Mobile tower crane operator (over
200 tons, up to and including 300 tons mrc)

GROUP 13: Crane operator (over 300 tons); Derrick barge
operator (over 300 tons); Helicopter pilot; Hoist operator,
stiff legs, Guy derrick or similar type (over 300 tons);
Mobile tower crane operator (over 300 tons)

TUNNEL CLASSIFICATIONS

GROUP 1: Skiploader (wheel type up to 3/4 yd. without attachment)

GROUP 2: Power-driven jumbo form setter operator

GROUP 3: Dinkey locomotive or motorperson (up to and including 10 tons)

GROUP 4: Bit sharpener; Equipment greaser (grease truck); Slip form pump operator (power-driven hydraulic lifting device for concrete forms); Tugger hoist operator (1 drum); Tunnel locomotive operator (over 10 and up to and including 30 tons)

GROUP 5: Backhoe operator (up to and including 3/4 yd.); Small Ford, Case or similar; Drill doctor; Grouting machine operator; Heading shield operator; Heavy-duty repairperson; Loader operator (Athey, Euclid, Sierra and similar types); Mucking machine operator (1/4 yd., rubber-tired, rail or track type); Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pneumatic heading shield (tunnel); Pumpcrete gun operator; Tractor compressor drill combination operator; Tugger hoist operator (2 drum); Tunnel locomotive operator (over 30 tons)

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

ENGINEERS ZONES

\$1.00 additional per hour for all of IMPERIAL County and the portions of KERN, RIVERSIDE & SAN BERNARDINO Counties as defined below:

That area within the following Boundary: Begin in San Bernardino County, approximately 3 miles NE of the intersection of I-15 and the California State line at that point which is the NW corner of Section 1, T17N,m R14E, San Bernardino Meridian. Continue W in a straight line to that point which is the SW corner of the northwest quarter of Section 6, T27S, R42E, Mt. Diablo Meridian. Continue North to the intersection with the Inyo County Boundary at that point which is the NE corner of the western half of the northern quarter of Section 6, T25S, R42E, MDM. Continue W along the Inyo and San Bernardino County boundary until the intersection with Kern County, as that point which is the SE corner of Section 34, T24S, R40E, MDM. Continue W along the Inyo and Kern County boundary until the intersection with Tulare County, at that point which is the SW corner of the SE quarter of Section 32, T24S, R37E, MDM. Continue W along the Kern and Tulare County boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM. Continue S to SW corner of T11N, R17W, SBM. Continue E along south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along

south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SMB to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1s, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state line. Follow the California state line west to Arizona state line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1, T17N, R14E, SBM

\$1.00 additional per hour for portions of SAN LUIS OBISPO, KERN, SANTA BARBARA & VENTURA as defined below:

That area within the following Boundary: Begin approximately 5 miles north of the community of Cholame, on the Monterey County and San Luis Obispo County boundary at the NW corner of T25S, R16E, Mt. Diablo Meridian. Continue south along the west side of R16E to the SW corner of T30S, R16E, MDM. Continue E to SW corner of T30S, R17E, MDM. Continue S to SW corner of T31S, R17E, MDM. Continue E to SW corner of T31S, R18E, MDM. Continue S along West side of R18E, MDM as it crosses into San Bernardino Meridian numbering area and becomes R30W. Follow the west side of R30W, SBM to the SW corner of T9N, R30W, SBM. Continue E along the south edge of T9N, SBM to the Santa Barbara County and Ventura County boundary at that point which is the SW corner of Section 34. T9N, R24W, SBM, continue S along the Ventura County line to that point which is the SW corner of the SE quarter of Section 32, T7N, R24W, SBM. Continue E along the south edge of T7N, SBM to the SE corner to T7N, R21W, SBM. Continue N along East side of R21W, SBM to Ventura County and Kern County boundary at the NE corner of T8N, R21W. Continue W along the Ventura County and Kern County boundary to the SE corner of T9N, R21W. Continue North along the East edge of R21W, SBM to the NE corner of T12N, R21W, SBM. Continue West along the north edge of T12N, SBM to the SE corner of T32S, R21E, MDM. [T12N SBM is a think strip between T11N SBM and T32S MDM]. Continue North along the East side of R21E, MDM to the Kings County and Kern County border at the NE corner of T25S, R21E, MDM, continue West along the Kings County and Kern County Boundary until the intersection of San Luis Obispo County. Continue west along the Kings County and San Luis Obispo County boundary until the intersection with Monterey County. Continue West along the Monterey County and San Luis Obispo County boundary to the beginning point at the NW corner of T25S, R16E, MDM.

\$2.00 additional per hour for INYO and MONO Counties and the Northern portion of SAN BERNARDINO County as defined below:

That area within the following Boundary: Begin at the intersection of the northern boundary of Mono County and the California state line at the point which is the center of Section 17, T10N, R22E, Mt. Diablo Meridian. Continue S then SE along the entire western boundary of Mono County, until it reaches Inyo County at the point which is the NE corner of the Western half of the NW quarter of Section 2, T8S, R29E, MDM.

Continue SSE along the entire western boundary of Inyo County, until the intersection with Kern County at the point which is the SW corner of the SE 1/4 of Section 32, T24S, R37E, MDM. Continue E along the Inyo and Kern County boundary until the intersection with San Bernardino County at that point which is the SE corner of section 34, T24S, R40E, MDM. Continue E along the Inyo and San Bernardino County boundary until the point which is the NE corner of the Western half of the NW quarter of Section 6, T25S, R42E, MDM. Continue S to that point which is the SW corner of the NW quarter of Section 6, T27S, R42E, MDM. Continue E in a straight line to the California and Nevada state border at the point which is the NW corner of Section 1, T17N, R14E, San Bernardino Meridian. Then continue NW along the state line to the starting point, which is the center of Section 18, T10N, R22E, MDM.

REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

 ENGI0012-004 08/01/2020

	Rates	Fringes
OPERATOR: Power Equipment (DREDGING)		
(1) Leverman.....	\$ 56.40	30.00
(2) Dredge dozer.....	\$ 50.43	30.00
(3) Deckmate.....	\$ 50.32	30.00
(4) Winch operator (stern winch on dredge).....	\$ 49.77	30.00
(5) Fireman-Oiler, Deckhand, Bargeman, Leveehand.....	\$ 49.23	30.00
(6) Barge Mate.....	\$ 49.84	30.00

 IRON0433-006 07/01/2020

	Rates	Fringes
IRONWORKER		
Fence Erector.....	\$ 34.58	24.81
Ornamental, Reinforcing and Structural.....	\$ 41.00	33.45

PREMIUM PAY:

\$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland, Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

\$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base, Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center

\$2.00 additional per hour at the following locations:

Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock

 LABO0089-001 07/01/2020

	Rates	Fringes
LABORER (BUILDING and all other Residential Construction)		
Group 1.....	\$ 34.18	20.48
Group 2.....	\$ 34.86	20.48
Group 3.....	\$ 35.57	20.48
Group 4.....	\$ 36.37	20.48
Group 5.....	\$ 38.30	20.48
LABORER (RESIDENTIAL CONSTRUCTION - See definition below)		
(1) Laborer.....	\$ 30.82	18.80
(2) Cleanup, Landscape, Fencing (Chain Link & Wood).	\$ 29.53	18.80

RESIDENTIAL DEFINITION: Wood or metal frame construction of single family residences, apartments and condominiums - excluding (a) projects that exceed three stories over a garage level, (b) any utility work such as telephone, gas, water, sewer and other utilities and (c) any fine grading work, utility work or paving work in the future street and public right-of-way; but including all rough grading work at the job site behind the existing right of way

LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete Screeding for Rought Strike-off; Concrete, water curing; Demolition laborer; Flagman; Gas, oil and/or water pipeline laborer; General Laborer; General clean-up laborer; Landscape laborer; Jetting laborer; Temporary water and air lines laborer; Material hoseman (walls, slabs, floors and decks); Plugging, filling of Shee-bolt holes; Dry packing of concrete; Railroad maintenance, Repair Trackman and road beds, Streetcar and railroad construction trac laborers; Slip form raisers; Slurry seal crews (mixer operator, applicator operator, squeegee man, Shuttle man, top man), filling of cracks by any method on any surface; Tarman and mortar man; Tool crib or tool house laborer; Window cleaner; Wire Mesh puling-all concrete pouring operations

GROUP 2: Asphalt Shoveler; Cement Dumper (on 1 yard or larger mixer and handling bulk cement); Cesspool digger and installer; Chucktender; Chute man, pouring concrete, the handling of the cute from ready mix trucks, such as walls, slabs, decks, floors, foundations, footings, curbs, gutters and sidewalks; Concrete curer-impervious membrane and form oiler; Cutting torch operator (demoliton); Guinea chaser; Headboard man-asphlt; Laborer, packing rod steel and pans; membrane vapor barrier installer; Power broom sweepers (small); Riiprap, stonepaver, placing stone or wet sacked concrete; Roto scraper and tiller; Tank sealer and cleaner; Tree climber, faller, chain saw operator, Pittsburgh Chipper and similar type brush

shredders; Underground laborers, including caisson bellower

GROUP 3: Buggymobile; Concrete cutting torch; Concrete cutting torch; Concrete pile cutter; Driller, jackhammer, 2 1/2 feet drill steel or longer; Dri Pak-it machine; High sealer (including drilling of same); Hydro seeder and similar type; Impact wrench, multi-plate; Kettlemen, potmen and men applying asphalt, lay-kold, creosote, line caustic and similar type materials (applying means applying, dipping, brushing or handling of such materials for pipe wrapping and waterproofing); Operators of pneumatic, gas, electric tools, vibrating machines, pavement breakers, air blasting, come-along, and similar mechanical tools not separately classified herein; Pipelayers back up man coating, grouting, making of joints, sealing, caulking, diapering and including rubber gasket joints, pointing and any and all other services; Rotary Scarifier or multiple head concrete chipping scarifier; Steel header board man and guideline setter; Tampers, Barko, Wacker and similar type; Trenching machine, handpropelled

GROUP 4: Asphalt raker, luterman, ironer, asphalt dumpman and asphalt spreader boxes (all types); Concrete core cutter (walls, floors or ceilings), Grinder or sander; Concrete saw man; cutting walls or flat work, scoring old or new concrete; Cribber, shorer, lagging, sheeting and trench bracing, hand-guided lagging hammer; Laser beam in connection with laborer's work; Oversize concrete vibrator operator 70 pounds and over; Pipelayer performing all services in the laying, installation and all forms of connection of pipe from the point of receiving pipe in the ditch until completion of operation, including any and all forms of tubular material, whether pipe, metallic or non-metallic, conduit, and any other stationary type of tubular device used for the conveying of any substance or element, whether water, sewage, solid, gas, air or other product whatsoever and without regard to the nature of material from which the tubular material is fabricated; No joint pipe and stripping of same; Prefabricated manhole installer; Sandblaster (nozzleman), Porta shot-blast, water blasting

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Driller-all power drills, excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and any and all other types of mechanical drills without regard to the form of motive power.

LABO0089-002 11/01/2020

	Rates	Fringes
LABORER (MASON TENDER).....	\$ 33.00	19.23

LABO0089-004 07/01/2020

HEAVY AND HIGHWAY CONSTRUCTION

Laborers:	Rates	Fringes
Group 1.....	\$ 35.30	20.48
Group 2.....	\$ 35.76	20.48
Group 3.....	\$ 36.17	20.48
Group 4.....	\$ 37.01	20.48
Group 5.....	\$ 40.28	20.48

LABORER CLASSIFICATIONS

GROUP 1: Laborer: General or Construction Laborer, Landscape Laborer. Asphalt Rubber Material Loader. Boring Machine Tender (outside), Carpenter Laborer (cleaning, handling, oiling & blowing of panel forms and lumber), Concrete Laborer, Concrete Screeding for rough strike-off, Concrete water curing. Concrete Curb & Gutter laborer, Certified Confined Space Laborer, Demolition laborer & Cleaning of Brick and Lumber, Expansion Joint Caulking; Environmental Remediation, Monitoring Well, Toxic waste and Geotechnical Drill tender, Fine Grader, Fire Watcher, Limbers, Brush Loader, Pilers and Debris Handlers. flagman. Gas Oil and Water Pipeline Laborer. Material Hoseman (slabs, walls, floors, decks); Plugging, filling of shee bolt holes; Dry packing of concrete and patching; Post Holer Digger (manual); Railroad maintenance, repair trackman, road beds; Rigging & signaling; Scaler, Slip-Form Raisers, Filling cracks on any surface, tool Crib or Tool House Laborer, Traffic control (signs, barriers, barricades, delineator, cones etc.), Window Cleaner

GROUP 2: Asphalt abatement; Buggymobile; Cement dumper (on 1 yd. or larger mixers and handling bulk cement); Concrete curer, impervious membrane and form oiler; Chute man, pouring concrete; Concrete cutting torch; Concrete pile cutter; driller/Jackhammer, with drill steel 2 1/2 feet or longer; Dry pak-it machine; Fence erector; Pipeline wrapper, gas, oil, water, pot tender & form man; Grout man; Installation of all asphalt overlay fabric and materials used for reinforcing asphalt; Irrigation laborer; Kettleman-Potman hot mop, includes applying asphalt, lay-klold, creosote, lime caustic and similar tyhpes of materials (dipping, brushing, handling) and waterproofing; Membrane vapor barrier installer; Pipelayer backup man (coating, grouting, making of joints, sealing caulkiing, diapering including rubber basket joints, pointing); Rotary scarifier, multiple head concrete chipper; Rock slinger; Roto scraper & tiller; Sandblaster pot tender; Septic tank digger/installer; Tamper/wacker operator; Tank scaler & cleaner; Tar man & mortar man; Tree climber/faller, chainb saw operator, Pittsburgh chipper & similar type brush shredders.

GROUP 3: Asphalt, installation of all fabrics; Buggy Mobile Man, Bushing hammer; Compactor (all types), Concrete Curer - Impervious membrane, Form Oiler, Concrete Cutting Torch, Concrete Pile Cutter, Driller/Jackhammer with drill steel 2 1/2 ft or longer, Dry Pak-it machine, Fence erector including manual post hole digging, Gas oil or water Pipeline Wrapper - 6 ft pipe and over, Guradrail erector, Hydro seeder, Impact Wrench man (multi plate), kettleman-Potman Hot Mop includes applying Asphalt, Lay-Kold, Creosote, lime caustic and similar types of materials (dipping, brushing or handling) and waterproofing. Laser Beam in connection with Laborer work. High Scaler, Operators of Pneumatic Gas or Electric Tools, Vibrating Machines, Pavement Breakers, Air Blasting, Come-Alongs and similar mechanical tools, Remote-Controlled Robotic Tools in connection with Laborers work. Pipelayer Backup Man (Coating, grouting, making of joints, sealing, caulking, diapering including rubber gasket joints, pointing and other services). Power Post Hole Digger, Rotary Scarifier (multiple head concrete chipper scarifier), Rock Slinger, Shot Blast equipment (8 to 48 inches), Steel Headerboard Man and Guideline Setter, Tamper/Wacker operator and similar types, Trenching Machine hand propelled.

GROUP 4: Any worker exposed to raw sewage. Asphalt Raker, Luteman, Asphalt Dumpman, Asphalt Spreader Boxes, Concrete Core Cutter, Concrete Saw Man, Cribber, Shorer, Head Rock Slinger. Installation of subsurface instrumentation, monitoring wells or points, remediation system installer; Laborer, asphalt-rubber distributor bootman; Oversize concrete vibrator operators, 70 pounds or over. Pipelayer, Prefabricated Manhole Installer, Sandblast Nozzleman (Water Blasting-Porta Shot Blast), Traffic Lane Closure.

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Horizontal directional driller, Boring system, Electronic tracking, Driller: all power drills excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and all other types of mechanical drills without regard to form of motive power. Environmental remediation, Monitoring well, Toxic waste and Geotechnical driller, Toxic waste removal. Welding in connection with Laborer's work.

LABO0300-005 03/01/2020

	Rates	Fringes
Asbestos Removal Laborer.....	\$ 36.13	20.33

SCOPE OF WORK: Includes site mobilization, initial site cleanup, site preparation, removal of asbestos-containing material and toxic waste, encapsulation, enclosure and disposal of asbestos- containing materials and toxic waste by hand or with equipment or machinery; scaffolding, fabrication of temporary wooden barriers and assembly of decontamination stations.

LABO0345-001 07/01/2020

	Rates	Fringes
LABORER (GUNITE)		
GROUP 1.....	\$ 45.05	19.62
GROUP 2.....	\$ 44.10	19.62
GROUP 3.....	\$ 40.56	19.62

FOOTNOTE: GUNITE PREMIUM PAY: Workers working from a Bosn'n's Chair or suspended from a rope or cable shall receive 40 cents per hour above the foregoing applicable classification rates. Workers doing unite and/or shotcrete work in a tunnel shall receive 35 cents per hour above the foregoing applicable classification rates, paid on a portal-to-portal basis. Any work performed on, in or above any smoke stack, silo, storage elevator or similar type of structure, when such structure is in excess of 75'-0" above base level and which work must be performed in whole or in part more than 75'-0" above base level, that work performed above the 75'-0" level shall be compensated for at 35 cents per hour above the applicable classification wage rate.

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Rodmen, Nozzlemen

GROUP 2: Gunmen

GROUP 3: Reboundmen

LABO1184-001 07/01/2020

	Rates	Fringes
Laborers: (HORIZONTAL DIRECTIONAL DRILLING)		
(1) Drilling Crew Laborer...	\$ 37.85	15.99
(2) Vehicle Operator/Hauler.	\$ 38.02	15.99
(3) Horizontal Directional Drill Operator.....	\$ 39.87	15.99
(4) Electronic Tracking Locator.....	\$ 41.87	15.99
Laborers: (STRIPING/SLURRY SEAL)		
GROUP 1.....	\$ 39.06	19.01
GROUP 2.....	\$ 40.36	19.01
GROUP 3.....	\$ 42.37	19.01
GROUP 4.....	\$ 44.11	19.01

LABORERS - STRIPING CLASSIFICATIONS

GROUP 1: Protective coating, pavement sealing, including repair and filling of cracks by any method on any surface in parking lots, game courts and playgrounds; carstops; operation of all related machinery and equipment; equipment repair technician

GROUP 2: Traffic surface abrasive blaster; pot tender - removal of all traffic lines and markings by any method

(sandblasting, waterblasting, grinding, etc.) and preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

GROUP 3: Traffic delineating device applicator: Layout and application of pavement markers, delineating signs, rumble and traffic bars, adhesives, guide markers, other traffic delineating devices including traffic control. This category includes all traffic related surface preparation (sandblasting, waterblasting, grinding) as part of the application process. Traffic protective delineating system installer: removes, relocates, installs, permanently affixed roadside and parking delineation barricades, fencing, cable anchor, guard rail, reference signs, monument markers; operation of all related machinery and equipment; power broom sweeper

GROUP 4: Striper: layout and application of traffic stripes and markings; hot thermo plastic; tape traffic stripes and markings, including traffic control; operation of all related machinery and equipment

LABO1414-003 08/05/2020

	Rates	Fringes
LABORER		
PLASTER CLEAN-UP LABORER.....	\$ 36.03	21.01
PLASTER TENDER.....	\$ 38.58	21.01

Work on a swing stage scaffold: \$1.00 per hour additional.

Work at Military Bases - \$3.00 additional per hour:
 Coronado Naval Amphibious Base, Fort Irwin, Marine Corps Air Station-29 Palms, Imperial Beach Naval Air Station, Marine Corps Logistics Supply Base, Marine Corps Pickle Meadows, Mountain Warfare Training Center, Naval Air Facility-Seeley, North Island Naval Air Station, Vandenberg AFB.

PAIN0036-001 07/01/2020

	Rates	Fringes
Painters: (Including Lead Abatement)		
(1) Repaint (excludes San Diego County).....	\$ 29.59	17.12
(2) All Other Work.....	\$ 33.12	17.24

REPAINT of any previously painted structure. Exceptions: work involving the aerospace industry, breweries, commercial recreational facilities, hotels which operate commercial establishments as part of hotel service, and sports facilities.

PAIN0036-010 10/01/2020

	Rates	Fringes
DRYWALL FINISHER/TAPER		
(1) Building & Heavy Construction.....	\$ 36.69	18.90
(2) Residential Construction (Wood frame apartments, single family homes and multi-duplexes up to and including four stories).....	\$ 27.11	17.51

PAIN0036-012 10/01/2020

	Rates	Fringes
GLAZIER.....	\$ 45.55	18.06

PAIN0036-019 06/01/2020

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 32.27	17.24

PLAS0200-005 08/07/2019

	Rates	Fringes
PLASTERER.....	\$ 43.73	16.03

NORTH ISLAND NAVAL AIR STATION, COLORADO NAVAL AMPHIBIOUS BASE, IMPERIAL BEACH NAVAL AIR STATION: \$3.00 additional per hour.

PLAS0500-001 07/01/2018

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
GROUP 1.....	\$ 26.34	21.12
GROUP 2.....	\$ 27.99	21.12
GROUP 3.....	\$ 30.07	21.12

CEMENT MASONS - work inside the building line, meeting the following criteria:

GROUP 1: Residential wood frame project of any size; work classified as Type III, IV or Type V construction; interior tenant improvement work regardless the size of the project; any wood frame project of four stories or less.

GROUP 2: Work classified as type I and II construction

GROUP 3: All other work

PLUM0016-006 09/01/2020

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER		
Camp Pendleton; Vandenberg Air Force Base.....\$ 55.88		23.66
Work ONLY on new additions and remodeling of commercial buildings, bars, restaurants, and stores not to exceed 5,000 sq. ft. of floor space.....\$ 50.70		23.73
Work ONLY on strip malls, light commercial, tenant improvement and remodel work.....\$ 38.73		22.06
All other work except work on new additions and remodeling of bars, restaurant, stores and commercial buildings not to exceed 5,000 sq. ft. of floor space and work on strip malls, light commercial, tenant improvement and remodel work.....\$ 52.28		24.71

PLUM0016-011 09/01/2020

	Rates	Fringes
PLUMBER/PIPEFITTER		
Residential.....\$ 41.62		20.63

PLUM0345-001 09/01/2020

	Rates	Fringes
PLUMBER		
Landscape/Irrigation Fitter.\$ 35.30		24.10
Sewer & Storm Drain Work....\$ 39.39		21.48

ROOF0045-001 07/01/2020

	Rates	Fringes
ROOFER.....\$ 36.25		9.24

* SFCA0669-001 01/01/2021

	Rates	Fringes
SPRINKLER FITTER.....\$ 41.57		24.62

SHEE0206-001 07/01/2020

	Rates	Fringes
SHEET METAL WORKER		
Camp Pendleton.....\$ 42.62		29.55
Except Camp Pendleton.....\$ 40.62		29.55
Sheet Metal Technician.....\$ 30.51		9.49

SHEET METAL TECHNICIAN - SCOPE:

- a. Existing residential buildings, both single and multi-family, where each unit is heated and/or cooled by a separate system
- b. New single family residential buildings including tracts.
- c. New multi-family residential buildings, not exceeding five stories of living space in height, provided each unit is heated or cooled by a separate system. Hotels and motels are excluded.
- d. LIGHT COMMERCIAL WORK: Any sheet metal, heating and air conditioning work performed on a project where the total construction cost, excluding land, is under \$1,000,000
- e. TENANT IMPROVEMENT WORK: Any work necessary to finish interior spaces to conform to the occupants of commercial buildings, after completion of the building shell

 TEAM0166-001 09/01/2019

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 18.90	34.69
GROUP 2.....	\$ 26.49	34.69
GROUP 3.....	\$ 26.69	34.69
GROUP 4.....	\$ 26.89	34.69
GROUP 5.....	\$ 27.09	34.69
GROUP 6.....	\$ 27.59	34.69
GROUP 7.....	\$ 29.09	34.69

FOOTNOTE: HAZMAT PAY: Work on a hazmat job, where hazmat certification is required, shall be paid, in addition to the classification working in, as follows: Levels A, B and C - +\$1.00 per hour. Workers shall be paid hazmat pay in increments of four (4) and eight (8) hours.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Fuel Man, Swamper

GROUP 2: 2-axle Dump Truck, 2-axle Flat Bed, Concrete Pumping Truck, Industrial Lift Truck, Motorized Traffic Control, Pickup Truck on Jobsite

GROUP 3: 2-axle Water Truck, 3-axle Dump Truck, 3-axle Flat Bed, Erosion Control Nozzleman, Dump Crete Truck under 6.5 yd, Forklift 15,000 lbs and over, Prell Truck, Pipeline Work Truck Driver, Road Oil Spreader, Cement Distributor or Slurry Driver, Bootman, Ross Carrier

GROUP 4: Off-road Dump Truck under 35 tons 4-axles but less than 7-axles, Low-Bed Truck & Trailer, Transit Mix Trucks under 8 yd, 3-axle Water Truck, Erosion Control Driver, Grout Mixer Truck, Dump Crete 6.5yd and over, Dumpster Trucks, DW 10, DW 20 and over, Fuel Truck and Dynamite, Truck Greaser, Truck Mounted Mobile Sweeper 2-axle Winch Truck

GROUP 5: Off-road Dump Truck 35 tons and over, 7-axles or more, Transit Mix Trucks 8 yd and over, A-Frame Truck, Swedish Cranes

GROUP 6: Off-Road Special Equipment (including but not limited to Water Pull Tankers, Athey Wagons, DJB, B70 Wuclids or like Equipment)

GROUP 7: Repairman

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

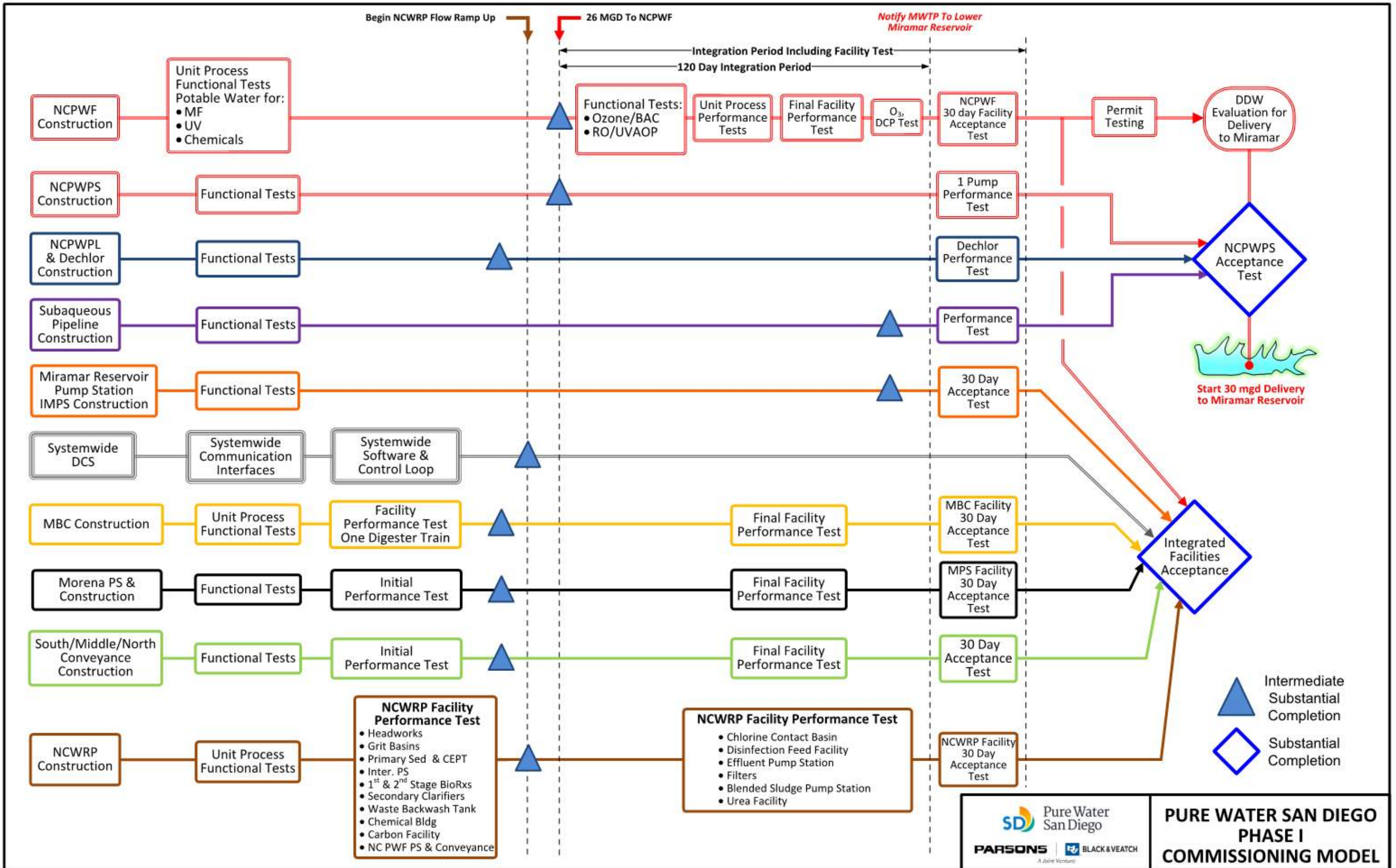
3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

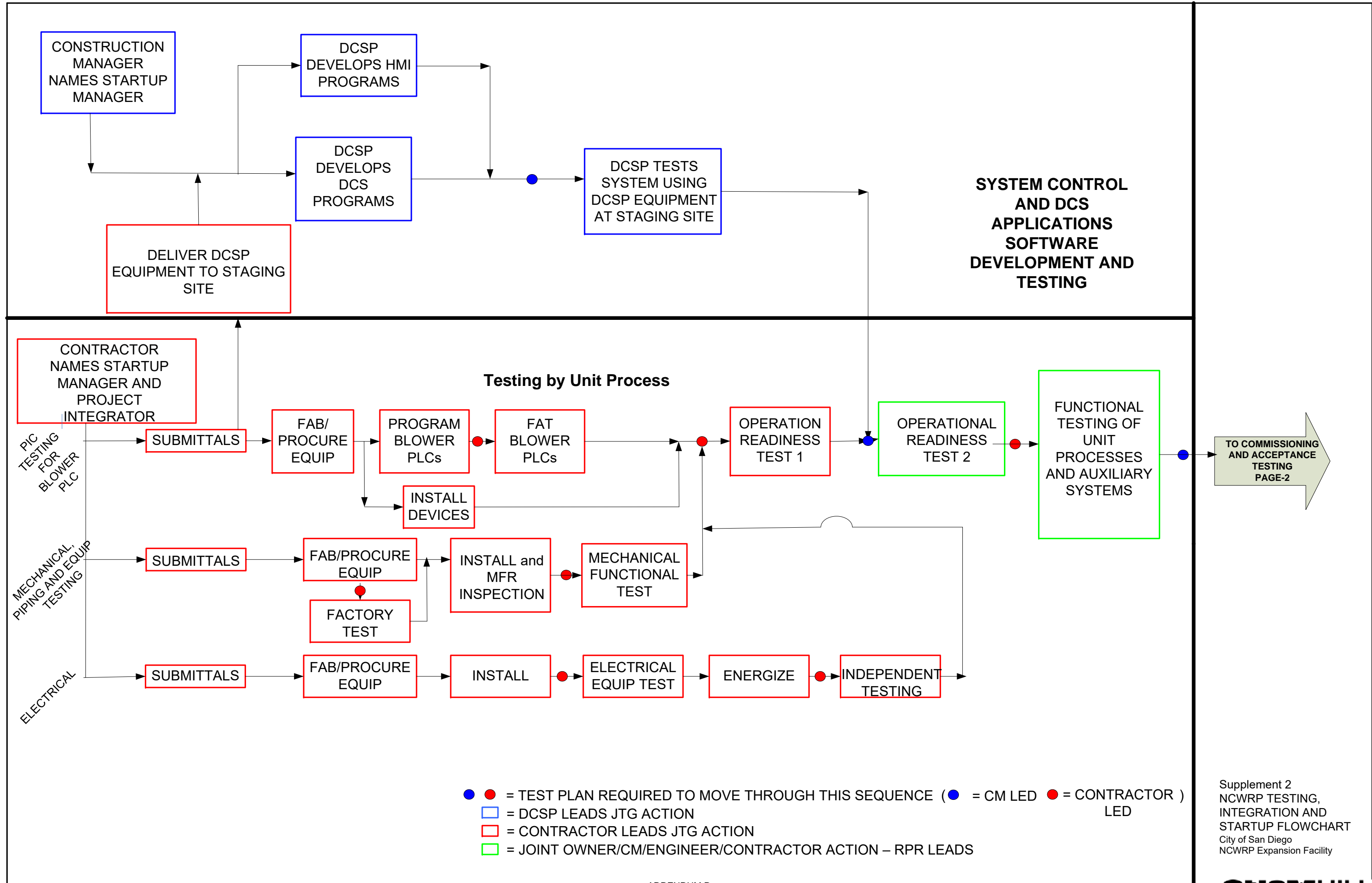
Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

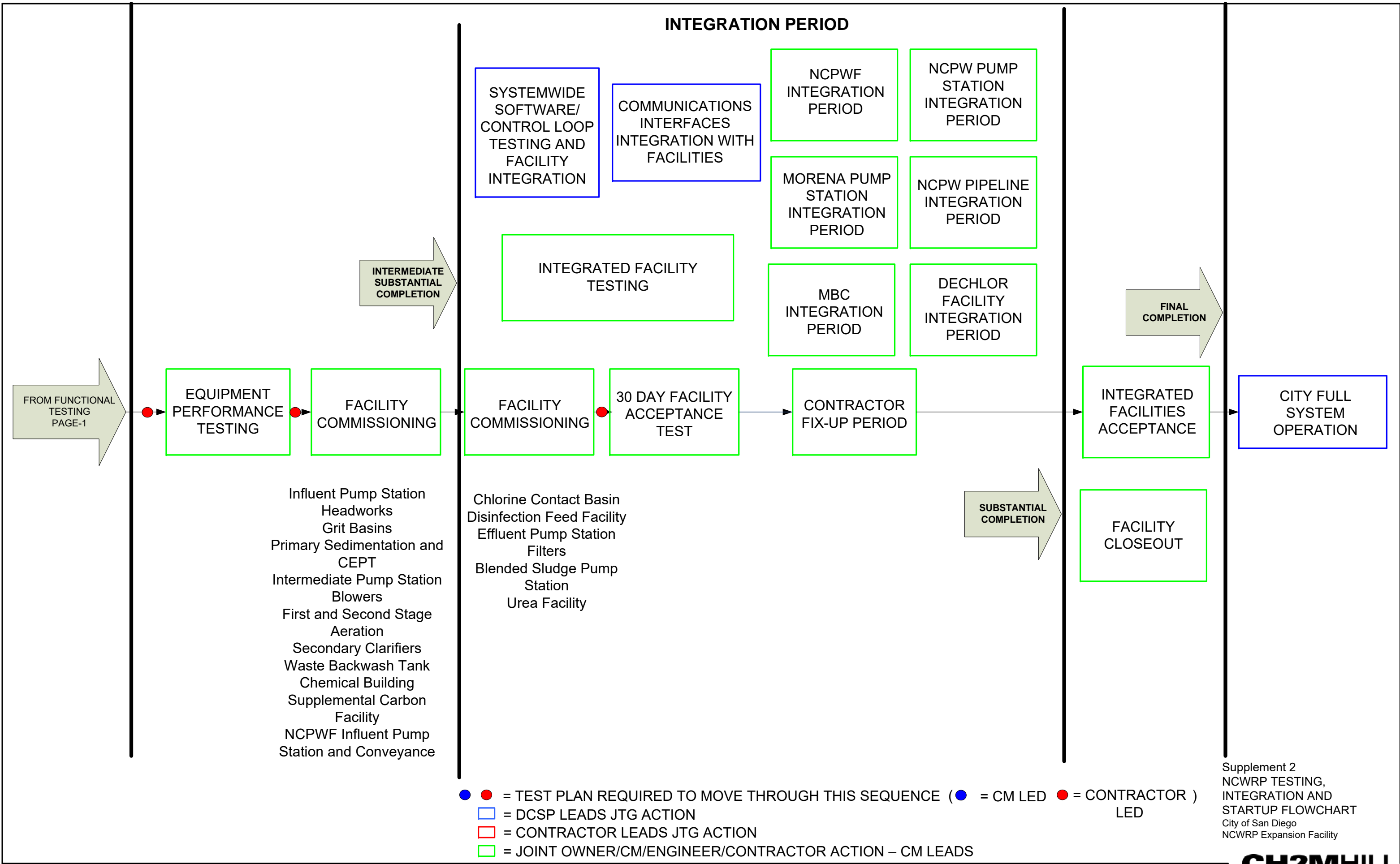
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END OF GENERAL DECISION"





Supplement 2
 NCWRP TESTING,
 INTEGRATION AND
 STARTUP FLOWCHART
 City of San Diego
 NCWRP Expansion Facility



GENERAL	1	Tag Number	P&ID	50FET230	PK2-N01-N-160B
	2	Loop Title		Stormwater Pumps Flow	
	3	Area Classification		Unclassified	
	4				
	5	Line Number	Equipment Number		
	6	Line Size	Line Schedule	8 Inch	
PROCESS CONDITIONS	7	Fluid		Water	
	8				
	9	Min Flow	Max Flow	0 gpm	1,670 gpm
	10	Min Velocity	Max Velocity	0 feet/sec	10.7 feet/sec
	11	Nominal Pressure		8 psig	
	12	Nominal Temperature		50 degF	
	13	Specific Gravity	Viscosity	1.0	
	14	Conductivity	Density		
	15	Vapor Pressure	Critical Pressure		
	16	Vacuum Possibility		No	
METERING ELEMENT	18	Element Tag			
	19	Element Size		8 Inch	
	20	Process Connection/Material		8 inch Class 150 ANSI Flange	
	21	Electrical Connection		0.5 inch NPT	
	22	Tube Material		Stainless Steel	
	23	Liner Material		Hard Rubber	
	24	Electrode Type		Flush or Bullet Nose	
	25	Electrode Material		316 Stainless Steel	
	26	Range		0 - 40 ft/sec	
	27	Element Cable Length		As Required	
	28	Grounding Rings	Material	Two	316 Stainless Steel
	29	Enclosure NEMA Rating		NEMA 4X	
	30	Minimum Measurable Velocity		0.033 Feet/Sec	
	31	Minimum Conductivity		5 microS/cm	
	32	Ambient Temperature Limits		-5 degF to 140 degF	
	33	Process Temperature Limits		32 degF to 180 degF	
	34	Options			
35					
TRANSMITTER	36	Mounting		Integral	
	37	Enclosure NEMA Rating		NEMA 4X	
	38	Power Supply	Voltage	4 - Wire	120 VAC
	39	Output Signal		Isolated 4 to 20 madc	
	40	Communication Protocol		HART	
	41	Calibrated Range		0 - 2000 gpm	
	42	Low Flow Cutoff			
	43	Ambient Temperature Limits		-5 degF to 140 degF	
	44				
OPTIONS	45	Accuracy	Repeatability	+/- 0.5 percent of rate	
	46	Vendor Calibration		Factory calibrate with calibration certificate	
	47	Tagging		Stainless steel tag with Tag Number	
	48	Element Mounting Bracket			
PURCHASE	49				
	50	Manufacturer		Endress+Hauser	Krohne
	51	Model Number		Promag L400	Optiflux 2000
	52				
	53	Purchase Note		1 year warranty	
F04 FLOW ELEMENT & TRANSMITTER, ELECTROMAGNETIC			SAN DIEGO NCWRP EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE		
			50FET230		

GENERAL	1	Tag Number	P&ID	50LET240	PK2-N01-N-160B
	2	Loop Title		Stormwater Sump Level	
	3	Area Classification		Non-Hazardous	
	4				
	5	Line Number	Equipment Number		
	6	Line Size	Line Schedule		
	7				
PROCESS CONDITIONS	8	Fluid		Water	
	9	Pressure		Atmospheric	
	10	Temperature			
	11	Specific Gravity	Viscosity	1.0	
	12	Conductivity	Density		
	13	Vapor Pressure	Critical Pressure		
	14				
ELEMENT	15	Element Tag			
	16	Element Type		Free Space Radar	
	17	Element Length		4 inches	
	18	Extension Length			
	19	Wetted Materials		316 Stainless Steel	
	20	Process Connection		4-inch Class 150 ANSI Flange	
	21	Measurable Limits		164 Feet	
	22	Beam Angle		6 Degrees	
	23	Antenna Enclosure		NEMA 6P / IP68	
	24	Ambient Temperature Limits		-40 degF to 176 degF	
	25	Process Temperature Limits		-40 degF to 176 degF	
TRANSMITTER	26				
	27	Mounting		Integral	
	28	Enclosure NEMA Rating		NEMA 4X / IP65	
	29	Power Supply	Voltage	2 - Wire	24 VDC
	30	Output Signal		4 to 20 madc	
	31	Communication Protocol		HART	
	32	Range		0 - 164 Feet	
CALIBRATION	33	Display		Integral	
	34	Calibrated Range		0 - 15 Feet	
	35	Zero Reference		Bottom of Tank	
	36	Vendor Calibration		No	
	37				
	38	Accuracy	Resolution	+/- 0.1 Pct of Range	0.04 inch
	39				
OPTIONS	40	Tagging		Stainless Steel Tag with Tag Number	
	41	Sun Shield		No	
	42				
	43				
	44				
PURCHASE	45				
	46	Manufacturer		Endress+Hauser	Siemens
	47	Model Number		FMR60	LR260
	48	Antenna Extension			
	49	Sun Shield			
	50	Purchase Note		1 year warranty	
	51				
52					
53					
L29 LEVEL TRANSMITTER - RADAR			SAN DIEGO NCWRP EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE		
			50LET240		

GENERAL	1	Tag Number	P&ID	50LSHH250	PK2-N01-N-160B
	2	Loop Title		Stormwater Sump Level	
	3	Area Classification		Non-Hazardous	
	4				
	5	Line Number	Equipment Number		
	6	Line Size	Line Schedule		
	7				
PROCESS CONDITIONS	8	Fluid		Water	
	9	Pressure		Atmospheric	
	10	Temperature			
	11	Specific Gravity	Viscosity	1.43	
	12	Conductivity	Density		
	13	Vapor Pressure	Critical Pressure		
	14				
ELEMENT	15	Element Type		Tuning Fork	
	16	Insertion Length		36 Inches	
	17	Process Connection		2 inch - Class 150 ANSI Flange	
	18	Wetted Materials		Teflon	
	19				
	20	Enclosure NEMA Rating		NEMA 4X	
	21				
	22	Ambient Temperature Limits		-50 degF to 160 degF	
	23	Process Temperature Limits		-50 degF to 300 degF	
24					
SWITCH	25	Switch Type		8 - 16 madc	
	26	Set Point		6-Inches Below Tank Overflow	
	27	Set Point Direction		Increasing	
	28	Deadband			
	29	Failure State			
	30	Voltage			
	31	Contact Arrangement			
	32	Contact Rating			
	33	Communication Protocol			
TRANSMITTER	34	Power Supply	Voltage	2 - Wire	24 VDC
	35	Output Signal		Isolated 4 to 20 madc	
	36	Communication Protocol		HART	
	37				
	38				
	39				
	40				
CALIBRATION	41	Vendor Calibration		No	
	42				
	43				
	44	Accuracy	Repeatability	0.04 inches	0.004 inches
	45				
OPTIONS	46	Tagging		Affix paper tag with Tag Number	
	47				
	48				
	49				
PURCHASE	50	Manufacturer		Endress+Hauser	Rosemount
	51	Model Number		M FTL51	2120
	52	Purchase Note		1 year warranty	
	53				
L50				SAN DIEGO NCWRP EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE	
LEVEL SWITCH - TUNING FORK				50LSHH250	

GENERAL	1	Tag Number	P&ID	50PI211	PK2-N01-N-160B
	2	Loop Title		Stormwater Pump 1 Pressure	
	3				
	4	Area Classification			
	5	Line Number	Equipment Number		
	6	Line Size	Line Schedule		
	7				
PROCESS CONDITIONS	8	Fluid		Plant Effluent	
	9	Min Pressure	Max Pressure	0 psig	8.5 psig
	10	Temperature		Ambient	
	11	Specific Gravity	Viscosity	1.0	
	12	Conductivity	Density		
	13	Vapor Pressure	Critical Prssure		
	14				
INDICATOR	15	Type		Bourdon Tube	
	16	Range		0 - 15 psi	
	17	Dial Size	Dial Color	4.5 Inches	White
	18	Process Connection	Mounting	0.5-inch MNPT	Lower Stem
	19	Movement Dampening		Glycerin	
	20	Case Material	Window Material	Black Thermoplastic	Glass or Acrylic
	21				
	22	Blowout Protection		Case Back	
	23	Wetted Parts	Socket Material	Stainless Steel	Stainless Steel
TRANSMITTER	24				
	25	Mounting			
	26	Enclosure NEMA Rating			
	27	Power Supply	Voltage		
	28	Output Signal			
	29	Communication Protocol			
DIAPHRAGM SEAL - ANNULAR SEAL	30	Range			
	31				
	32	Type		Diaphragm	
	33	Process Connection		0.75 Inch NPT	
	34	Body Material		316l Stainless Steel	
	35	Diaphragm / Sleeve Material		Teflon	
	36	Capillary Material			
	37	Capillary Length			
	38	Fill Fluid		Glycerin	
	39	Flushing Connection		No	
CALIBRATION	40				
	41	Manufacturer			
	42	Model Number			
	43	Calibrated Range		0 - 15 psig	
OPTIONS	44	Vendor Calibration		Factory calibrate - Provide calibration certificate	
	45	Accuracy	Repeatability	+/- 0.5 Pct of Range	
	46				
PURCHASE	47	Tagging		Stainless steel tag with Tag Number	
	48				
	49				
PURCHASE	50	Manufacturer		Ashcroft	WIKA
	51	Model Number		1279	233.34
	52	Purchase Note		1 year warranty	
	53				
P04			SAN DIEGO NCWRP EXPANSION AND NCPWF INFLUENT PUMP STATION AND PIPELINE		
PRESSURE GAUGE			50PI211		

STORM WATER PUMPS NO. 1-2 DATA SHEET

Tag Numbers: 50P201, 50P202

Pump Name: Storm Water Pumps No. 1 and 2

Manufacturer and Model Number: (1) Flygt N series

SERVICE CONDITIONS

Liquid Pumped (Material and Percent Solids): Storm Drain (< 1% Solids)

Pumping Temperature (Fahrenheit): Normal: Ambient Max 80 Min 45

Specific Gravity at 60 Degrees F: 1.0 Viscosity Range: 1.15 cp

Vapor Pressure at 60 Degrees F: 0.2563 psia pH: 6-8

Abrasive (Y/N) Y Possible Scale Buildup (Y/N): Y

Total suspended solids (mg/L) <10,000 mg/L

Min. NPSH Available (Ft. Absolute): 35 ft

PERFORMANCE REQUIREMENTS

Capacity (US gpm): Rated: 835

Total Dynamic Head (Ft): Rated: 20

Min. Rated Pump Hydraulic Efficiency at Rated Capacity (%): 74

Max. Pump Speed at Rated Capacity (rpm): Constant (Y/N): Y Adjustable (Y/N): N

DESIGN AND MATERIALS

Pump Type: Heavy-Duty Nonclog (Y/N) Y Other: _____

Volute Material: Cast Iron ASTM A48 Pump Casing Material: Cast Iron ASTM A48

Motor Housing Material: Cast Iron ASTM A48

Wear Rings Case (Y/N): Y Material: Cast Iron ASTM A48

Wear Ring Impeller (Y/N): NA Material: NA

Elastomers: Nitrile Rubber

Fasteners: Stainless Steel

Impeller: Type: Double-Shrouded Non-Clog (Y/N): _____ Other: _____
Material: Cast Iron ASTM A48

Shaft Material: Stainless Steel

Base Elbow: Cast Iron ASTM A48

Double Mechanical Seal (Y/N): Y Bearing Life (Hrs): 10,000

DRIVE MOTOR (See Section 26 20 00, Low-Voltage AC Induction Motors)

Horsepower: 7.5 Voltage: 460 Phase: 3 Synchronous Speed (rpm): 1800

Enclosure: Submersible

Adjustable Speed Drive Range: _____ min to _____ max, See Section 26 29 23,
Low-Voltage Adjustable Speed Drive System.

Other Features: _____

Moisture Detection Switches (Y/N): Y

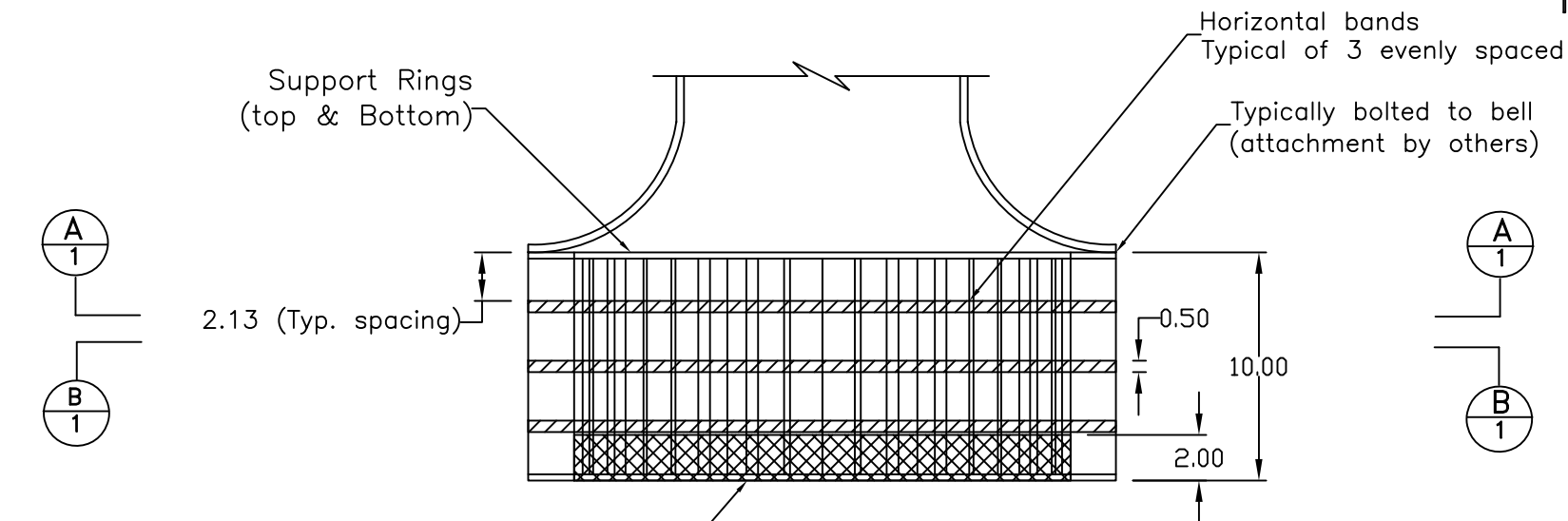
Thermal Protection Embedded in Windings (Y/N): Y

REMARKS: _____

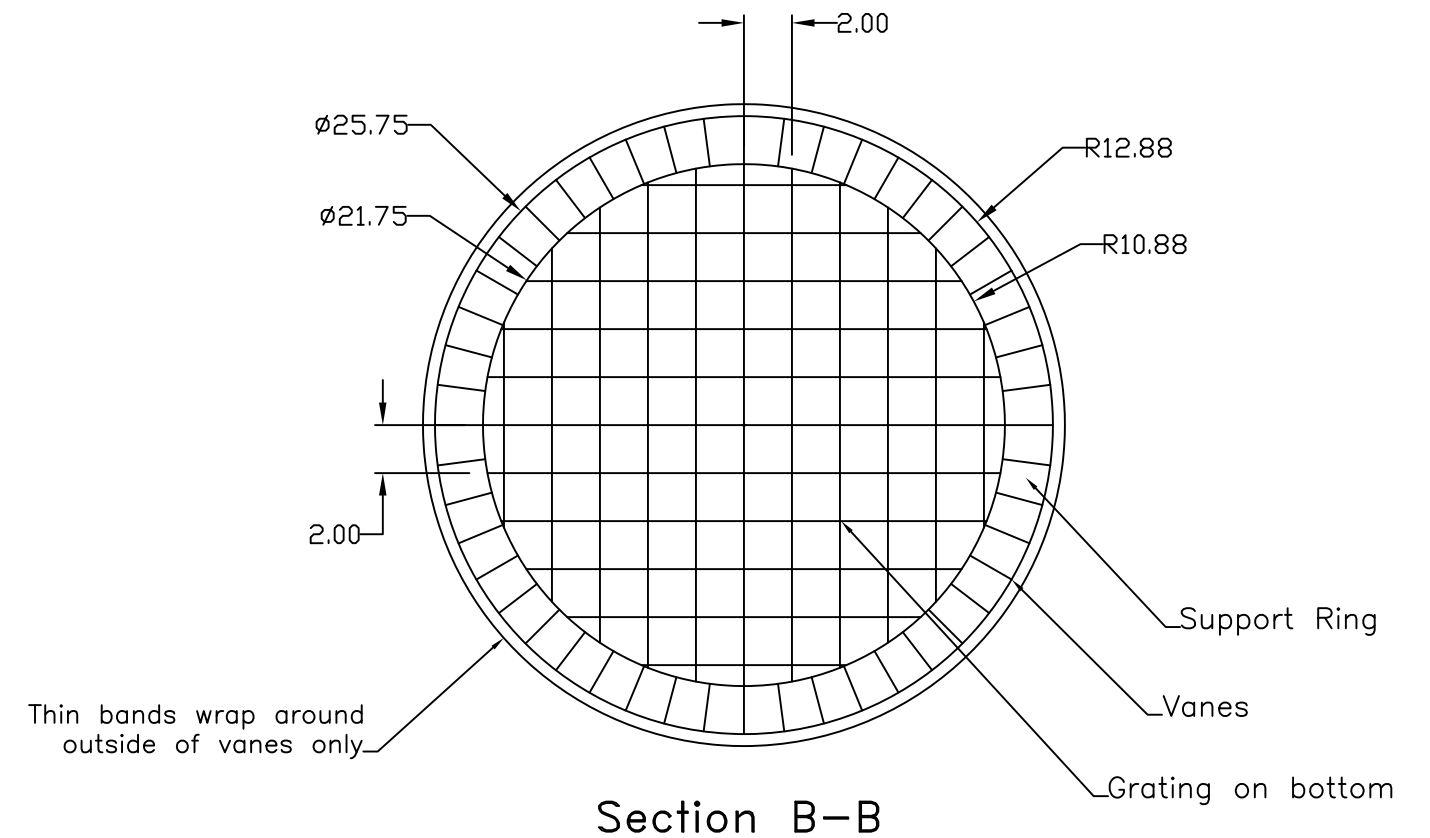
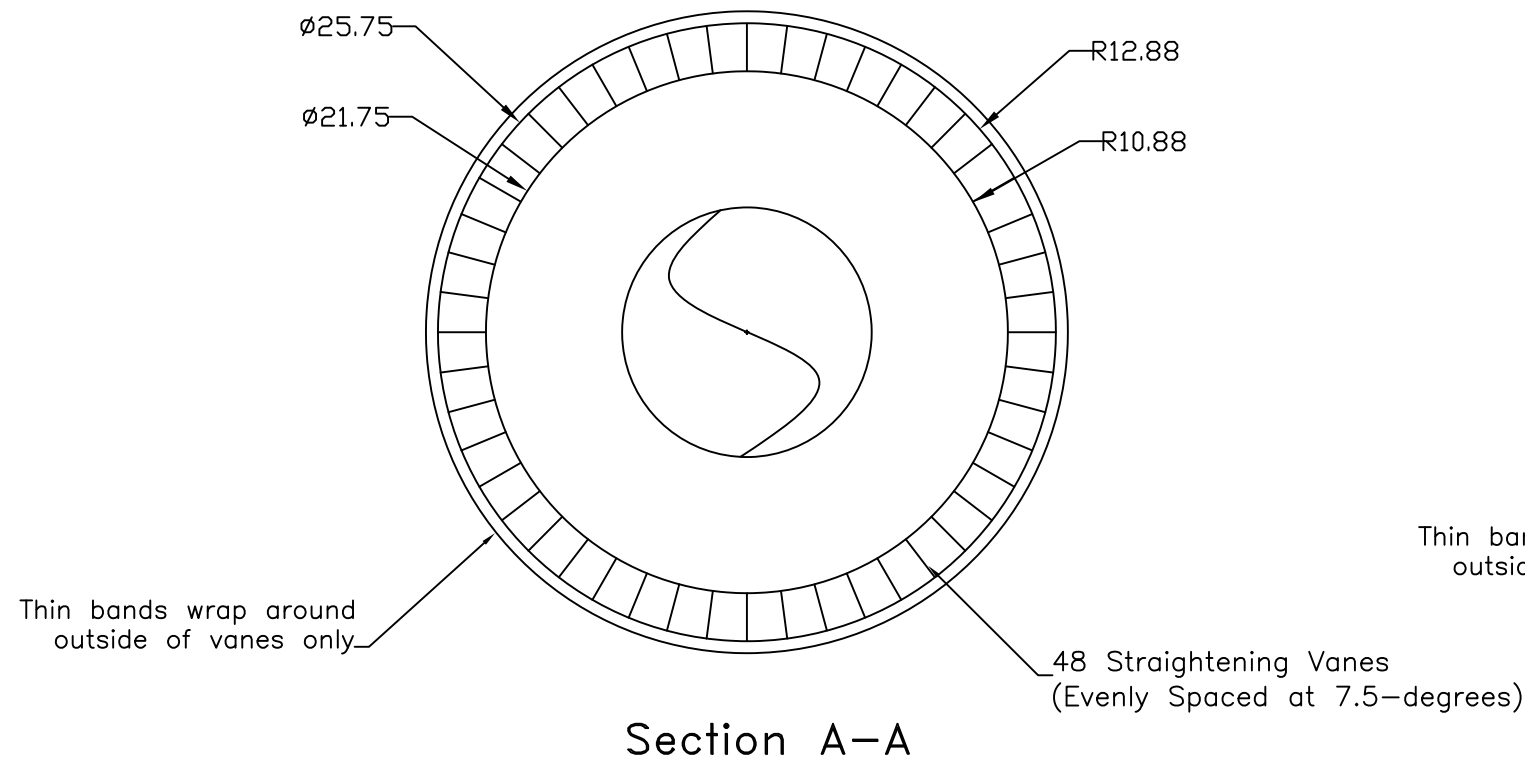
PRELIMINARY – FOR BID PURPOSES ONLY

Notes:

- 1) All dimensions given in prototype inches
- 2) Grating Specifications:
2-in wide x 2-in long x 2-in deep openings
Bar Depth to Spacing Ratio 1:1
- 3) Vane Specifications:
7.5 degree uniform spacing as indicated
- 4) Attachment design by others
- 5) Use 3 pieces of 0.5-inch wide strapping evenly spaced as shown



Floor Grating (2-in x 2-in x 2-in)



Drawing intended for reference only.
Not to be used as a construction drawing.

Note: 1. All dimensions given in prototype inches.
2. All elevations given in prototype feet.

FIGURE 1
FLOW CONDITIONING BASKET (25.75-in)
SAN DIEGO CAN PUMP
JACOBS

REVISION	DRAWN: CHK. BY:	SCALE:	DRAWN: M. Havice	DATE: 2/17/2021	PROJECT NO:
		1:8	FILE NO: basket.dwg	CHECKED: D. Werth	

**Table 10-5
Mitigation Measures – North City Pure Water Facility Influent Pump Station**

Mitigation Measure	Timing of Mitigation			Responsible Person	Location/Notes
	Pre Const.	During Const.	Post Const.		
MM-AQ-1 (construction BMPs)		X		Construction Manager	Entire site
MM-AQ-2 (construction NO _x)		X		Construction Manager	Entire site
MM-BIO-4 (Coastal California Gnatcatcher)	X	X		City of San Diego	Coastal sage scrub within the facility within MCAS Miramar and within the MHPA south of Miramar Road.
MM-BIO-9a (Qualified biologist)	X			Owner/permittee	Entire site
MM-BIO-9b (preconstruction meeting)	X			City of San Diego	Entire site
MM-BIO-9c (documentation)	X	X	X	Owner/Permittee	Entire site
MM-BIO-9d (biological construction mitigation/monitoring exhibit)	X			City of San Diego	Entire site
MM-BIO-9e (construction fencing)	X			City of San Diego	Entire site
MM-BIO-9f (on-site education)	X			City of San Diego	Entire site
MM-BIO-9g (biological monitoring)		X		City of San Diego	Entire site
MM-BIO-9j (BMPs/erosion/runoff)	X	X	X	City of San Diego	Entire site
MM-BIO-9k (toxics/project staging areas/equipment storage)		X	X	Construction Manager/owner	Entire site
MM-HAZ-2 (hazardous material reporting form)			X	City of San Diego	Entire site
MM-HIS-3 (archaeological monitoring)	X	X	X	Principal Investigator (Archaeologist)	Entire site
MM-NOI-4 (noise and vibration study)	X			Construction Contractor	Entire site
MM-PALEO-1 (paleontological monitoring)	X	X	X	Principal Investigator (Paleontologist)	Entire site

April 2017 10-35 9420-04

PK2-G-005B

CONSTRUCTION CHANGE /ADDENDUM			
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.
△ A	ADDENDUM A	01/21 6, 15, 45, 58-59, 61-62, 65, 74-75, 77, 84, 91, 94, 96-97, 100, 106, 108, 114A-157, 161, 164-166, 168, 171, 173, 175-180, 182, 184-190, 193, 195, 211-212, 215-216, 218, 695, 702, 705, 794-796, 798, 806A, 927, 1054A, 1133	
△ B	ADDENDUM B	01/21 1, 5B, 14, 19, 29, 41-42, 45, 57-88, 92, 95, 103-105, 107-114, 155-164 166, 168, 173-175, 177, 181-184, 186-187A, 190, 192A, 195A-195B, 197, 203, 213, 215-216, 218, 229, 232, 695, 705A, 746, 749-750, 867-868A, 870, 872, 885, 904-905, 1048, 1145	
△ C	ADDENDUM C	2/21 5B, 59, 61, 69, 72-73, 76, 79, 82-83, 87, 103, 108-110, 114, 159, 173, 214-216, 218-219, 222, 224-225, 240, 256A, 267, 274A, 276-278, 282, 289-290, 387, 434, 495, 688, 789, 793, 822, 867, 870,	
△ D	ADDENDUM D	2/21 5B, 148, 282, 806B, 926,	

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT



FOR REFERENCE ONLY

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 – NORTH CITY WRP EXPANSION

GENERAL MITIGATION MONITORING AND REPORTING PROGRAM (PAGES 35)

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 5B OF 1169 SHEETS

B-16149, S-17012
WBS B-15142

APPROVED: *hauheil* DATE: 12/03/2020
FOR CITY ENGINEER: *hauheil*
PRINT DCE NAME: Andrea Demich RCE# C70321

SUBMITTED BY: MONIKA SMOCZYNSKI PROJECT MANAGER
PROJECT ENGINEER: THIEN-LONG TRAN

DESCRIPTION	BY	APPROVED	DATE	FIRM
△ Addendum A	CH	<i>hauheil</i>	1/15/21	260-1709
△ Addendum B	CH	<i>hauheil</i>	2/3/21	CCS27 COORDINATE
△ Addendum C	CH	<i>hauheil</i>	2/22/21	1900-6269
△ Addendum D	CH	<i>hauheil</i>	2/28/21	CCS83 COORDINATE

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

40381-2005B-D

ADDENDUM D

IRRIGATION GENERAL NOTES

- IRRIGATION SOURCE IS RECYCLED WATER WITH AN APPROXIMATE PRESSURE OF 150 PSI BEFORE THE POINT OF CONNECTION. CONTRACTOR TO VERIFY PRESSURE AND REPORT FINDINGS PRIOR TO IRRIGATION SYSTEM INSTALLATION.
- IRRIGATION POINT OF CONNECTIONS: VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK WITH THE SITE SUPERINTENDENT. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWINGS IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND THE GENERAL CONTRACTOR. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION, ANY CHANGES REQUIRED DUE TO LOW/HIGH PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL CONFORM TO ALL CITY, REGIONAL AND STATE BUILDING/ PLUMBING CODES FOR ALL WORK SHOWN.
- PROJECT IS A RENOVATION, PLEASE REFER TO AS-BUILT RECORD DRAWINGS FOR MORE DETAILED EXISTING LANDSCAPE IRRIGATION INFORMATION.
- IRRIGATION EQUIPMENT, MAINLINE AND LATERAL ROUTING ARE SHOWN DIAGRAMMATICALLY FOR CLARITY. ALL IRRIGATION LINES SHALL BE TRENCHED THROUGH PLANTING AREAS WHEREVER POSSIBLE. SLEEVE UNDER PAVING ONLY WHERE NECESSARY.
- CONTRACTOR SHALL NOTIFY "DIG ALERT" (800) 227.2600 OR 811, AT LEAST TWO WORKING DAYS BEFORE ANY EXCAVATION, INCLUDING PUBLIC RIGHTS-OF-WAY AND CITY-HELD EASEMENTS.
- CONTRACTOR TO KEEP A SET OF FIELD ADJUSTED REDLINE DRAWINGS DOCUMENTING FIELD CHANGES, THE LOCATION OF VALVE BOX AND OTHER KEY EQUIPMENT WHICH SHALL BE SHOWN WITH DIMENSIONING FROM ADJACENT HARDSCAPE SURFACES INCLUDED.
- CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, UTILITY BOXES, ETC. VERIFY ALL HEAD LAYOUTS WITH THE CONTRACTING OFFICER AND LANDSCAPE ARCHITECT PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL INSTALL IRRIGATION VALVE AND EQUIPMENT BOXES IN PLANTING AREAS. DO NOT INSTALL IRRIGATION VALVE BOXES IN HARDSCAPE AREAS.
- THE CONTRACTOR SHALL INSTALL 2 EXTRA CONTROL WIRES TO EACH VALVE CLUSTER AS INDICATED ON THE PLAN WITH THE SYMBOL:
- MINIMUM CONTROL WIRE SIZE 14 GAUGE, MINIMUM GROUND WIRE SIZE 10 GAUGE. CONTRACTOR SHALL SIZE WIRES BASED UPON MANUFACTURER'S WIRE SIZING CHARTS RELATED TO VOLTAGE AND LENGTH OF RUN.
- SLEEVE QUANTITIES AND LOCATIONS ARE SCHEMATIC ONLY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER SLEEVE SIZE, QUANTITY AND LOCATION FOR ALL PIPES, WIRES AND CABLES AS REQUIRED BY SITE CONDITIONS.
- AT LOCATIONS WHERE MAINLINE OR LATERAL PIPE IS EXPOSED TO ULTRA VIOLET (UV) LIGHT SUCH AS SUNLIGHT, USE SCHEDULE 40 PVC UVR (BROWNLIN) IN THE SIZE DESIGNATED ON THE PLAN. IF THE SUPPLY IS RECYCLED WATER PAINT ANY EXPOSED PIPE PURPLE.
- ALL 'EXISTING TO REMAIN' LANDSCAPE AREAS SHALL BE RESTORED TO ORIGINAL OPERATION, WHICH MAY INCLUDE SUCH ITEMS AS: REPLACEMENT OF BROKEN PIPE, REPLACEMENT OF LEAKING VALVES, REPLACEMENT OF HEADS OR NOZZLES THAT OVERSPRAY ONTO OTHER AREAS AND ANY OTHER REPAIRS THAT ARE NEEDED WHICH IMPAIR PERFORMANCE.
- ALL SPRAY IRRIGATION SHALL BE SET BACK 24" AWAY FROM HARDSCAPE AREAS TO MINIMIZE THE RISK OF OVERSPRAY ONTO HADRSCAPE AREAS.
- ALL BASIN BOTTOM IRRIGATION SPRAY PIPE AND HEADS SHALL BE INSTALLED AT THE TOE OF SLOPE AND OUTSIDE THE ACTUAL BASIN BOTTOM, UNLESS ABSOLUTELY NECESSARY FOR PLANT SUPPLEMENTAL WATER APPLICATION.

IRRIGATION CONTROL NOTES

- IRRIGATION CONTROL SYSTEM IS AN UPGRADE TO FLOW MONITORING AND CONTROL THAT RETAINS THE EXISTING IRRIGATION CONVENTIONAL WIRING AND INTEGRATES NEW 2 WIRE CONTROL ZONES.
- IRRIGATION CONTROL ASSUMES A CELLULAR CONNECTION IS AVAILABLE. VERIFY CONNECTION IS AVAILABLE AND ACTIVE FROM THE MANUFACTURER PRIOR TO ORDERING ANY CONTROL SYSTEM COMPONENTS.
- IRRIGATION CONTROL SYSTEM REQUIRES A RADIO SURVEY PRIOR TO ORDERING CONTROL SYSTEM COMPONENTS. CONTACT CALSENSE REPRESENTATIVE ERIN HAGEN AT 760.580.1835 TO SCHEDULE SURVEY.
- MAXIMUM 2WIRE RUN OF ALL COMBINED WIRE SPURS IS 7,000 FEET PER CONTROLLER.
- IF AN ETHERNET CONNECTION IS USED, THE CAT 5/6 LINE SHALL BE IN CONDUIT AND BE NO MORE THAN 328 FEET TO THE NEAREST ROUTER.
- EACH POINT OF CONNECTION REQUIRES A STATION DECODER, A POC DECODER AND GROUNDING.
- INSTALLATION AND OPERATION OF ALL CALSENSE PRODUCTS SHALL BE INSPECTED AND CERTIFIED IN WRITING BY A CALSENSE FACTORY REPRESENTATIVE.

IRRIGATION SYMBOL LEGEND

±	Existing Irrigation Point of Connection - _____	N/A
DC	Double Check Valve Backflow Preventer (Recycled Systems) - Existing - Size per POC, 2-1/2" - 4"	N/A
PR	Pressure Regulator - ZURN #500XL-HLR	G/L-605
MCV	Normally Closed Master Control Valve - Superior 3200, RW Option for Recycled Water Systems, At each point of connection (POC). - Size per Mainline, 2-1/2" - 4"	B/L-603 & F/604
F	Flowmeter and POC Decoder - Calsense FM-1.25B and CS-2W-POC, At each point of connection (POC)	B-D/L-603
#	New Automatic Irrigation Controllers - CalSense CS3000 Series Controller A: CS3-24-S2-GR-SR-FL-STUBBY-SR-STUBBY-COMM-5YR-M-2WIRE-OPT Controller B,C,D,E,F: CS3-24-S1-SR-FL-SR-STUBBY-2WIRE-OPT	A/L-603
∞	Ball Valve - Wilkins 850 XL - Line Size 2" and Smaller	F/L-603
	Butterfly Valve with Latch Nut and Indicator Plate, Recycled Water Compatible - 2-1/2" and Larger	F/L-605
	Pressure Reducing Remote Control Valve - Hunter ICV-XXXG-FS-R-AS-ADJ	A/L-604
	Pressure Reducing Remote Control Valve - Hunter ICV-XXXG-FS-R-AS-ADJ w/ Wye Strainer	A/L-604
	Pressure Reducing Remote Control Low Flow Control Zone - Hunter ICZ-XXX-40	A/L-605
CS	Quick Coupler, Recycled Systems - Hunter HQ-44LRC-AW-R with Acme Threads and Locking Purple Cover	SDRW 115/L-606
TS	Water Test Station Installation	SDRW 116/L-606
▼	Recycled Water Site Signage/ #NHE-9603 12" x 18" Purple Color/ www.compliancesigns.com	SDRW 108 & C/L-607
No Symbol	Recycled Water Controller Signage/ #NHB-9608 10" x 7" - purple color/ www.compliancesigns.com	N/A
---	Recycled Water Pressure Main - SDR-21 PVC Reclaimed Water Purple Pipe, 3/4" - 1 1/2" SCH 40, 2"+ CLASS 315	B&C/L-604
---	Existing Pressure Mainline	B&C/L-604
---	Demo Existing Pressure Mainline	N/A
---	Non-Pressure Lateral Lines - 200 PSI 1220 PVC Sch 40 PVC, Purple for Recycled Systems 3/4" minimum size unless otherwise noted	B&C/L-604
---	Sleeves - 200 PSI 1220 PVC Sch 40 PVC, Purple for Recycled Systems, 2X Line Size	B&C/L-604
□	On-Grade Subsurface Dripper Line - Netafim Techline HCVXR-RW7-1210 installed adjacent to plants. Dripperline layout by the contractor per these drawings and the manufacturer's details, design guide and specifications. Cover with mulch post-installation.	C-E/L-605
□	On-Grade Subsurface Dripper Line - Netafim Techline HCVXR-RW7-1210 installed 12" O.C. Dripperline layout by the contractor per these drawings and the manufacturer's details, design guide and specifications. Cover with mulch post-installation.	C-E/L-605
NO SYMBOL	Direct burial wire and connectors per the project specifications	C/L-603 & D/L-604
NO SYMBOL	CalSense Two Station Decoders, CS-2W-2ST	C&E/L-603

EXISTING VALVE IDENTIFICATION LEGEND:

EXISTING VALVE

X-XX	Existing Controller Station Number (Per As-Built Plans)
A-XX	New Controller Station Number
1"	Remote Control Valve Size
XX.X	Gallons Per Minute (Flow)

NEW VALVE IDENTIFICATION LEGEND:

A-XX	Controller Station Number
1"	Remote Control Valve Size
XX.X	Gallons Per Minute (Flow)

PIPE SIZING LEGEND - MAXIMUM ALLOWABLE FLOW*

PIPE SIZE (INCHES)	SCHEDULE 40 NON-PRESSURE LATERAL**	PRESSURE MAINLINE	
		SCH 40 (1" - 1-1/2")	CL. 315 (2" - 4")
3/4"	0 - 7	-	-
1"	8 - 12	0 - 12	-
1 1/4"	13 - 22	13 - 22	-
1 1/2"	23 - 30	23 - 30	-
2"	31 - 50	-	31 - 48
2 1/2"	51 - 70	-	49 - 70
3"	-	-	71 - 100
4"	-	-	101 - 170

* MAXIMUM ALLOWABLE FLOW FOR VELOCITY BELOW 5 FEET PER SECOND DOES NOT IMPLY ASSOCIATED FRICTION / PRESSURE LOSSES ACCEPTABLE IN A GIVEN CONDITION.
** MINIMUM LATERAL SIZE 3/4" UNLESS NOTED OTHERWISE.

IRRIGATION SYMBOL LEGEND FOR LOW PRECIP. ROTATORS

HUNTER IRRIGATION LEGEND FOR MP ROTATORS*

Symbol	Pop-Up	Model	PSI	Pattern	Flow	Detail
▲	12"	HUNTER PROS-12-PRS40-CV-R-MPLCSS15	40	5'X15'	.22	C3/L-323
		HUNTER PROS-12-PRS40-CV-R-MPRCSS15		5'X15'	.22	
		HUNTER PROS-12-PRS40-CV-R-MPSS530		5'X30'	.44	

Symbol	Pop-Up	Model	PSI	Radius	Flow	Detail
▲	12"	HUNTER PROS-12-PRS40-CV-R-MPCORNER	40	8'-14"	.19	C3/L-323
		HUNTER PROS-12-PRS40-CV-R-MPCORNER		8'-14"	.39	
		HUNTER PROS-12-PRS40-CV-R-MPCORNER		8'-14"	.45	
		HUNTER PROS-12-PRS40-CV-R-MPCORNER		8'-14"	.45	

Symbol	Pop-Up	Model	PSI	Radius	Flow	Detail
▲	12"	HUNTER PROS-12-PRS40-CV-R-MP800SR-90	40	6'-10"	.23	C3/L-323
		HUNTER PROS-12-PRS40-CV-R-MP800SR-180		6'-10"	.42	
		HUNTER PROS-12-PRS40-CV-R-MP800SR-210		6'-10"	.43	
		HUNTER PROS-12-PRS40-CV-R-MP800SR-360		6'-10"	.78	

Symbol	Pop-Up	Model	PSI	Radius	Flow	Detail
▲	12"	HUNTER PROS-12-PRS40-CV-R-MP1000-90	40	8'-14"	.21	C3/L-323
		HUNTER PROS-12-PRS40-CV-R-MP1000-180		8'-14"	.42	
		HUNTER PROS-12-PRS40-CV-R-MP1000-210		8'-14"	.49	
		HUNTER PROS-12-PRS40-CV-R-MP1000-270		8'-14"	.63	
		HUNTER PROS-12-PRS40-CV-R-MP1000-360		8'-14"	.84	
		HUNTER PROS-12-PRS40-CV-R-MP2000-90		13'-19"	.43	
		HUNTER PROS-12-PRS40-CV-R-MP2000-180		13'-19"	.77	
		HUNTER PROS-12-PRS40-CV-R-MP2000-210		13'-19"	.86	
		HUNTER PROS-12-PRS40-CV-R-MP2000-270		13'-19"	1.10	
		HUNTER PROS-12-PRS40-CV-R-MP2000-360		13'-19"	1.48	
		HUNTER PROS-12-PRS40-CV-R-MP3000-90		22'-30"	.86	
		HUNTER PROS-12-PRS40-CV-R-MP3000-180		22'-30"	1.82	
HUNTER PROS-12-PRS40-CV-R-MP3000-210	22'-30"	2.12				
HUNTER PROS-12-PRS40-CV-R-MP3000-270	22'-30"	2.73				
HUNTER PROS-12-PRS40-CV-R-MP3000-360	22'-30"	3.64				

Symbol	Pop-Up	Model	PSI	Radius	Flow	Detail
▲	6"	HUNTER PROS-6-PRS40-CV-R-MP1000-90	40	8'-14"	.21	C3/L-323
		HUNTER PROS-6-PRS40-CV-R-MP1000-180		8'-14"	.42	
		HUNTER PROS-6-PRS40-CV-R-MP1000-210		8'-14"	.49	
		HUNTER PROS-6-PRS40-CV-R-MP1000-270		8'-14"	.63	
		HUNTER PROS-6-PRS40-CV-R-MP1000-360		8'-14"	.84	
		HUNTER PROS-6-PRS40-CV-R-MP2000-90		13'-19"	.43	
		HUNTER PROS-6-PRS40-CV-R-MP2000-180		13'-19"	.77	
		HUNTER PROS-6-PRS40-CV-R-MP2000-210		13'-19"	.86	
		HUNTER PROS-6-PRS40-CV-R-MP2000-270		13'-19"	1.10	
		HUNTER PROS-6-PRS40-CV-R-MP2000-360		13'-19"	1.48	
		HUNTER PROS-6-PRS40-CV-R-MP3000-90		22'-30"	.86	
		HUNTER PROS-6-PRS40-CV-R-MP3000-180		22'-30"	1.82	
HUNTER PROS-6-PRS40-CV-R-MP3000-210	22'-30"	2.12				
HUNTER PROS-6-PRS40-CV-R-MP3000-270	22'-30"	2.73				
HUNTER PROS-6-PRS40-CV-R-MP3000-360	22'-30"	3.64				

HUNTER IRRIGATION LEGEND FOR SPRAY

QTR	HALF	FULL	POP-UP	ADJ	RISE	Model	PSI	Rad	GPM			Dtl.	Sht.
									Q	H	F		
▲	▲	▲	▲	▲	▲	12" - HUNTER PROS-12-PRS30-CV-5 & 6A (var)	30	5'	.12	.23	.47	L-X/X	
▲	▲	▲	▲	▲	▲	12" - HUNTER PROS-12-PRS30-CV-8 & 8A (var)		8'	.24	.47	.97		
▲	▲	▲	▲	▲	▲	12" - HUNTER PROS-12-PRS30-CV-10 & 10A (var)		10'	.42	.88	1.59		
▲	▲	▲	▲	▲	▲	12" - HUNTER PROS-12-PRS30-CV-12 & 12A (var)		12'	.67	1.30	2.70		
▲	▲	▲	▲	▲	▲	12" - HUNTER PROS-12-PRS30-CV-15 & 15A (var)		15'	.97	1.86	3.75		
▲	▲	▲	▲	▲	▲	12" - HUNTER PROS-12-PRS30-CV-17 & 17A (var)		17'	1.15	2.37	4.60		

IRRIGATION SYMBOL LEGEND FOR FLOOD BUBBLERS

SYMBOL	POP-UP	MODEL	PSI	Rad	GPM			Dtl.
					Q	H	F	
TREE BUBBLER								
◆	6"	HUNTER PROS-06-PRS30-PCN-50, 2 PER TREE	30	-	-	-	.5	E/L-604
◆	6"	HUNTER PROS-06-PRS30-PCN-50, 3 PER PALM	30	-	-	-	.5	E/L-604
SHRUB BUBBLER								
⊙	6"	HUNTER PROS-06-PRS30-PCN-25	30	-	-	-	.25	E/L-604

PK2-L-601

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION

IRRIGATION LEGEND AND NOTES

CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 148 OF 1169 SHEETS				B-16149, S-17012 wbs D-15142
APPROVED: <i>Andrea Demich</i>	DATE: 12/03/2020	SUBMITTED BY: MONIKA SMOCZYNSKI	PROJECT MANAGER	
PRINT DCF NAME: <i>Andrea Demich</i>	RCE#: C70321	PROJECT ENGINEER: THIEN-LONG TRAN		
DESCRIPTION	BY	APPROVED	DATE	FILE
▲ Addendum A	CH	<i>Andrea Demich</i>	1/15/21	260-1709
▲ Addendum D	CH	<i>Andrea Demich</i>	2/26/21	CCS27 COORDINATE
				1900-6269
				CCS83 COORDINATE
DATE STARTED				40381-20148-D
DATE COMPLETED				

CONSULTANT

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

STUDIO WEST
LANDSCAPE ARCHITECTURE & PLANNING
3625 Ruffin Rd., Suite 108
San Diego, CA 92123
Ph 858.598.5085

DIGITALLY SIGNED: 2/23/2021

CIRCUIT AND RACEWAY SCHEDULE									
CIRCUIT ID	CIRCUIT DESCRIPTION	CIRCUIT FROM	CIRCUIT TO	WIRING	OPERATING VOLTAGE	RACEWAY QUANTITY	RACEWAY SIZE (INCHES)	NOTES	
FACILITY 70 ELECTRICAL BUILDING									
70/1001	70ATS6404	70MCC6304	70ATS1	3#1, 1#6G	480	1	1 1/2		
70/1002	70ATS6405	70MCC6305	70ATS1	3#1, 1#6G	480	1	1 1/2		
70/1003	70DP1	70ATS1	70DP1	3#1, 1#6G	480	1	1 1/2		
70/1004	70-ACU-401-CP	70-ACU-401-CP	70DP1	3#12, 1#12G	480	1	3/4		
70/1005	70-ACCU-401	70-ACCU-401	70DP1	3#10, 1#10G	480	1	3/4		
70/1006	70-ACU-401 CONTROL	70-ACU-401-CP	70-ACCU-401	EMPTY	N/A	1	1 1/2	SPARE. PROVIDE PULLSTRING.	
70/1007	70XLP1	70DP1	70XLP1	3#10, 1#10G	480	1	3/4		
70/1008	70XIP1	70DP1	70XIP1	3#10, 1#10G	480	1	3/4		
70/1009	70IP1	70XIP1	70IP1	4#6, 1#8G	120	1	1		
70/1010	70LP1	70XLP1	70LP1	4#6, 1#8G	120	1	1		
70/1014	70UPS1	70LP1	70UPS1	3#12, 1#12G	120	1	3/4		
70/1015	70ULP1	70JPS1	70ULP1	3#12, 1#12G	120	1	3/4		
70/1016	23PCM01	23PCM01	70ULP1	2#12, 1#12G	120	1	3/4		
70/1017	70FA01	70FA01	70ULP1	2#12, 1#12G	120	1	3/4		
70/1018	70MCC6304/6305 NETWORK (POWER) 1	70MCC6304; 70MCC6305	70ULP1	2#12, 1#12G	120	1	3/4		
70/1019	70MCC6306/6307 NETWORK (POWER) 2	70MCC6306; 70MCC6307	70ULP1	2#12, 1#12G	120	1	3/4		
70/1030	70MCC6304 (POWER) FEED	63SWBD2	70MCC6304	3#350KCMIL, 1#4G	480	1	3	ROUTE VIA EXISTING UTILITY TRENCH, SEE SITE PLANS	
70/1031	70MCC6305 (POWER) FEED	63SWBD1	70MCC6305	3#350KCMIL, 1#4G	480	1	3	ROUTE VIA EXISTING UTILITY TRENCH, SEE SITE PLANS	
70/1032	70MCC6306 (POWER) FEED	63SWBD2	70MCC6306	3#350KCMIL, 1#4G	480	1	3	ROUTE VIA EXISTING UTILITY TRENCH, SEE SITE PLANS	
70/1033	70MCC6307 (POWER) FEED	63SWBD1	70MCC6307	3#350KCMIL, 1#4G	480	1	3	ROUTE VIA EXISTING UTILITY TRENCH, SEE SITE PLANS	
70/1034	FIBER OPTIC CABLE	23PCM01	20PCM01	6 PAIR MULTIMODE FIBER OPTIC CABLE	N/A	1	4	ROUTE VIA EXISTING UTILITY TRENCH, SEE SITE PLANS	
70/1035	FIBER OPTIC CABLE	23PCM01	20PCM01	6 PAIR MULTIMODE FIBER OPTIC CABLE	N/A	1	4	ROUTE VIA EXISTING UTILITY TRENCH, SEE SITE PLANS	
70/1036	FIRE ALARM SYSTEM ALARMS	23PCM01	70FA01	4#14	24VDC	1	3/4		
70/1037	FIRE ALARM SYSTEM MODBUS TCF DATA LINK	23PCM01	70FA01	1 TYPE 30	-	1	3/4		
70/1038	70-ACU-401 SHUTDOWN	70-ACU-401-CP	70-FA-01	2#14	24VDC	1	3/4		
70/1039	70-ACU-401 ALARM	70-ACU-401-CP	23PCM01	2#14	24VDC	1	3/4		
70/1040	70UPS1 ETHERNET	23PCM01	70LPS1	1 TYPE 30	-	1	3/4		
70/1041	70MCC6305 ETHERNET	23PCM01	70MCC6305	1 TYPE 30	-	1	3/4		
70/1042	70MCC6307 ETHERNET	23PCM01	70MCC6307	1 TYPE 30	-	1	3/4		
70/1043	50P201 (POWER) FEED	70MCC6307	50P201	3#10, 1#10G	480	1	2	COMBINE WITH 50P202 CKTS	
70/1044	50P201 (CONTROL) -HS, XSH, TSH	70MCC6307	50HS201	8#14, 1#14G	120	1	2	COMBINE WITH 50P202 CKTS	
70/1045	50P202 (POWER) FEED	70MCC6306	50P202	3#10, 1#10G	480	1	2	COMBINE WITH 50P201 CKTS	
70/1046	50P202 (CONTROL) -HS, XSH, TSH	70MCC6306	50HS202	8#14, 1#14G	120	1	2	COMBINE WITH 50P201 CKTS	
70/1047	50FET230	23PCM01	50FET230	1 TYPE 3	4-20mA	1	1	COMBINE WITH 70/1048 AND 70/1049	
70/1048	50LET240	23PCM01	50LET240	1 TYPE 3	4-20mA	1	1	COMBINE WITH 70/1047 AND 70/1049	
70/1049	50LSHH250	23PCM01	50LSHH250	1 TYPE 3	4-20mA	1	1	COMBINE WITH 70/1047 AND 70/1048	

OPERATIONS BUILDING VEHICLE CHARGING									
CIRCUIT ID	CIRCUIT DESCRIPTION	CIRCUIT FROM	CIRCUIT TO	WIRING	OPERATING VOLTAGE	RACEWAY QUANTITY	RACEWAY SIZE (INCHES)	NOTES	
51/201	VEHICLE CHARGING	51LP10	RECEFT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS	
51/202	VEHICLE CHARGING	51LP10	RECEFT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS	
51/203	VEHICLE CHARGING	51LP10	RECEFT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS	
51/204	VEHICLE CHARGING	51LP10	RECEFT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS	
51/205	VEHICLE CHARGING	51LP10	RECEFT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS	
51/206	VEHICLE CHARGING	51LP10	RECEFT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS	
51/207	VEHICLE CHARGING	51LP10	RECEFT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS	
51/208	VEHICLE CHARGING	51LP10	RECEFT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS	
51/209	VEHICLE CHARGING	51LP10	RECEFT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS	
51/210	VEHICLE CHARGING	51LP10	RECEFT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS	
51/211	VEHICLE CHARGING	51LP10	RECEFT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS	
51/212	VEHICLE CHARGING	51LP10	RECEFT	[2#8, #8G]	120V	1	1	MAY BE COMBINED WITH UP TO TWO OTHER VEHICLE CKTS	

NOTES:

- THIS SCHEDULE LISTS THE CONDUCTOR AND CONDUIT CONNECTIONS FROM EACH INSTRUMENT, DEVICE OR PIECE OF EQUIPMENT TO THE ENDPOINT OR NEAREST JUNCTION BOX. REFER TO ROUTING INFORMATION FOR FURTHER DETAIL AND ALSO THE DUCTBANK AND CONDUIT ROUTING SCHEDULE.
- WHERE ROUTING INFORMATION LISTS A JUNCTION BOX, THE CONDUIT AND CONDUCTORS SHALL BE ROUTED TO THE JUNCTION BOX AND THEN THE CONDUCTORS SHALL BE COMBINED WITH OTHER CIRCUITS AS DESCRIBED ON THE DUCTBANK AND CONDUIT ROUTING SCHEDULE. WHERE ROUTING DOES NOT LIST A JUNCTION BOX, CONDUCTORS SHALL BE ROUTED TO THE NEAREST HANDHOLE AND COMBINED AS SCHEDULED.

CIRCUIT AND RACEWAY SCHEDULE									
CIRCUIT ID	CIRCUIT DESCRIPTION	CIRCUIT FROM	CIRCUIT TO	WIRING	OPERATING VOLTAGE	RACEWAY QUANTITY	RACEWAY SIZE (INCHES)	NOTES	
SITE POWER DISTRIBUTION									
00/505	72SWGR FIBER OPTICS COMMS TO DCS	72SWGR01/02	20PCM01	2 PAIR FIBER OPTIC	N/A	1	4		

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CONSULTANT




REGISTERED PROFESSIONAL ENGINEER
STEPHEN HARKER
No. E21673
ELECTRICAL
STATE OF CALIFORNIA

DIGITALLY SIGNED: 02/24/2021

PK2-E-749

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION
ELECTRICAL CIRCUIT AND RACEWAY SCHEDULES

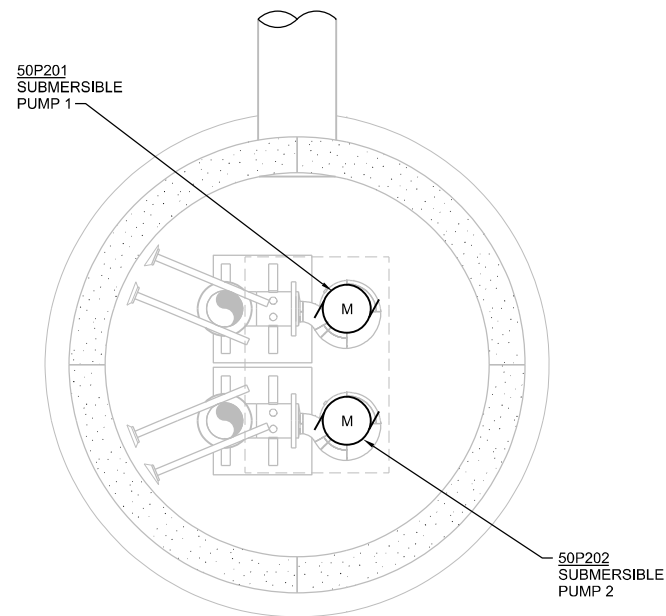
CITY OF SAN DIEGO, CALIFORNIA
PUBLIC UTILITIES DEPARTMENT
SHEET 282 OF 1169 SHEETS

B-16149, S-17012
WBS B-15142

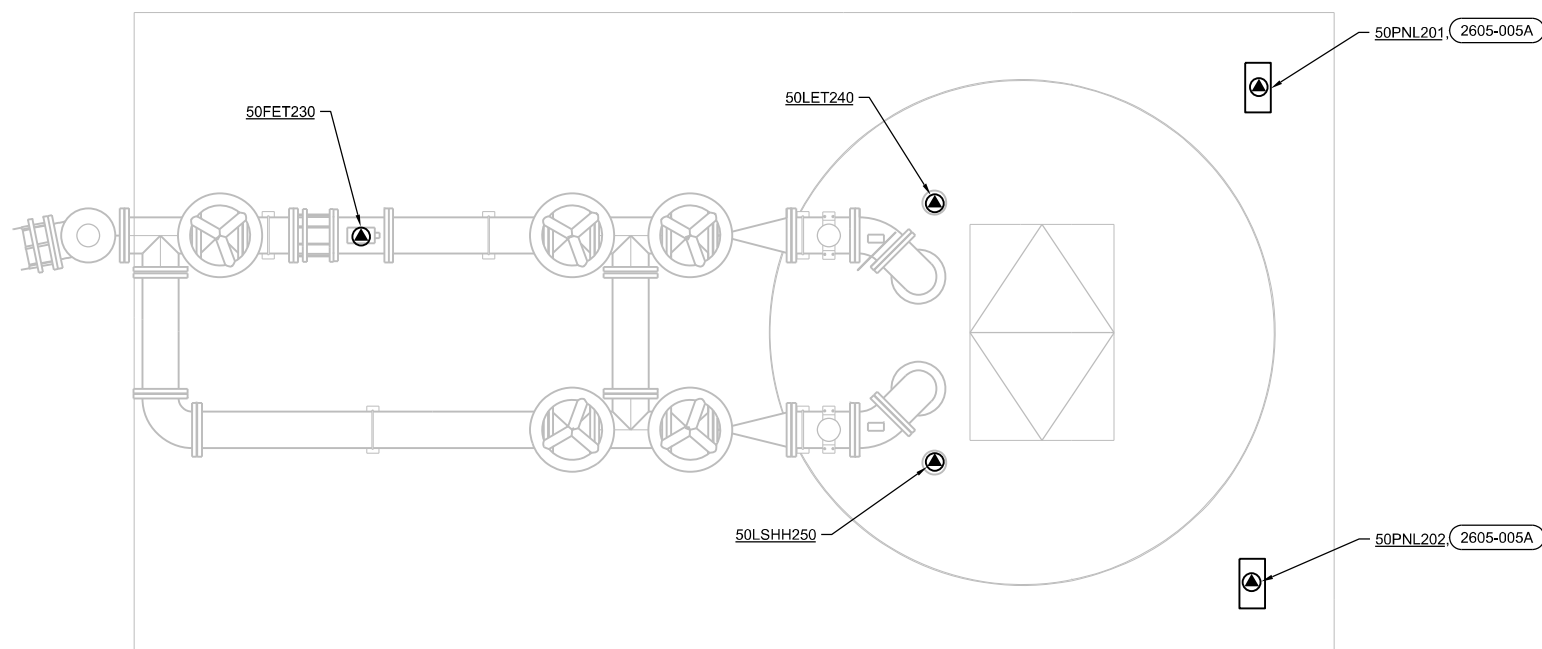
APPROVED FOR CITY ENGINEER Andrea Demich	DATE 12/03/2020	PROJECT MANAGER MONIKA SMOCZYNSKI
PRINT DATE NAME 02/24/2021 Andrea Demich	RCE# C70321	PROJECT ENGINEER THIEN-LONG TRAN
DESCRIPTION	BY	APPROVED
▲ Addendum A	CH	1/15/21
▲ Addendum C	CH	2/22/21
▲ Addendum D	CH	2/28/21
		DATE FILM
		260-1709
		CCS27 COORDINATE
		1900-6269
		CCS33 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

40381-2282-D



FOUNDATION PLAN
1/2"=1'-0"



TOP PLAN
1/2"=1'-0"

WARNING
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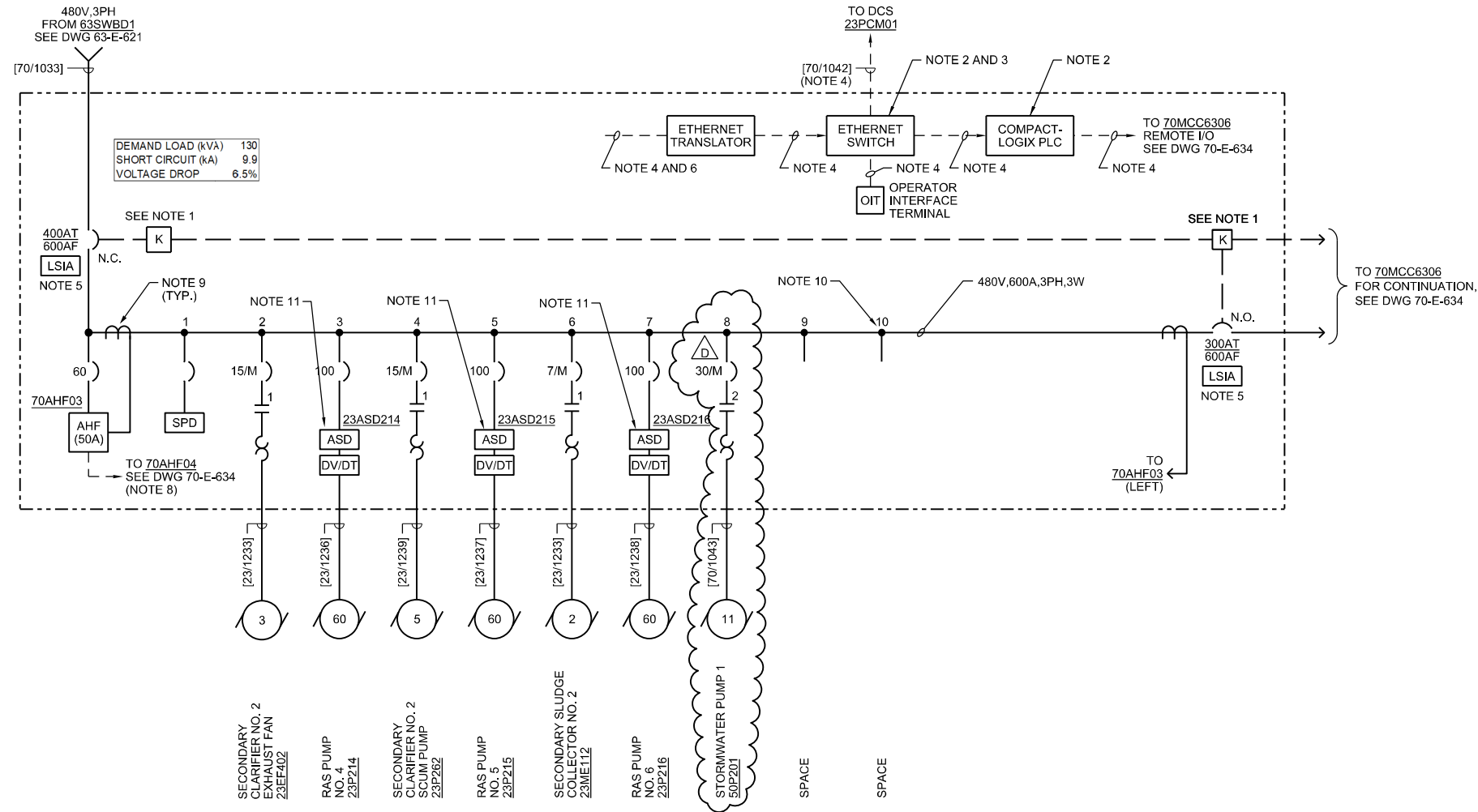
CONSULTANT

DIGITALLY SIGNED: 02/24/2021

PK2-50-E-100											
NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION ELECTRICAL STORM WATER PUMP STATION PLANS											
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 806B OF 1169 SHEETS	B-16149, S-17012 WBS B-15142										
APPROVED: <i>Andrea Clemich</i> FOR CITY ENGINEER PRINT DCE NAME: Andrea Clemich DATE: 12/03/2020 RCE#: C70321	SUBMITTED BY: MONIKA SMOCZYNSK PROJECT MANAGER PROJECT NO: THIEN LONG-TRAN PROJECT ENGINEER 260-1709 CCS27 COORDINATE 1900-6269 CCS33 COORDINATE										
<table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> <th>FILM</th> </tr> </thead> <tbody> <tr> <td>Addendum D</td> <td>CH</td> <td><i>Andrea Clemich</i></td> <td>2/26/21</td> <td></td> </tr> </tbody> </table>	DESCRIPTION	BY	APPROVED	DATE	FILM	Addendum D	CH	<i>Andrea Clemich</i>	2/26/21		CONTRACTOR: _____ INSPECTOR: _____ DATE STARTED: _____ DATE COMPLETED: _____
DESCRIPTION	BY	APPROVED	DATE	FILM							
Addendum D	CH	<i>Andrea Clemich</i>	2/26/21								

NEW SECONDARY CLARIFIER
70MCC6307

SCCR = 42,000A



GENERAL NOTES:

- A. REFERENCE CIRCUIT AND RACEWAY SCHEDULES FOR CONDUIT AND CABLING REQUIREMENTS. SEE DWG (E-700 SERIES).
- B. FOR PANEL SCHEDULES, SEE DWG (E-700 SERIES).
- C. FOR MOTOR CONTROL DIAGRAMS, SEE DWG (E-800 SERIES).

NOTES:

- 1. KEY INTERLOCKED SO THAT ONE BREAKER MUST BE OPEN.
- 2. PROVIDE PLC AND RELATED NETWORK EQUIPMENT AS SPECIFIED.
- 3. CONNECT NETWORKED COMPONENTS VIA ETHERNET SWITCH PER SPECIFICATIONS.
- 4. ETHERNET IP CAT 6 CABLE.
- 5. POWER MONITORING DATA WILL BE OBTAINED VIA CIRCUIT BREAKER TRIP UNITS THAT WILL BE NETWORK CONNECTED TO THE DCS.
- 6. ETHERNET TRANSLATOR NETWORK CONNECTED TO CIRCUIT BREAKER TRIP UNITS.
- 7. SIZE BREAKER PER MCC MANUFACTURER'S RECOMMENDATION.
- 8. PROVIDE COMMUNICATIONS LINK BETWEEN ACTIVE HARMONIC FILTER UNIT (AHF) LOCATED ON THE OPPOSITE SIDE OF THE TIE BREAKER. COMMUNICATIONS SHALL ALLOW BOTH FILTERS TO OPERATE IN PARALLEL ON A COMMON BUS WHEN THE TIE IS CLOSED. PROVIDE MANUFACTURER'S RECOMMEND COMMUNICATION CABLING AND ROUTE INTERNAL TO THE MCC.
- 9. PROVIDE NUMBER OF CT'S AS REQUIRED BY MANUFACTURER, TWO MINIMUM.
- 10. PROVIDE ADDITIONAL SPACES AS REQUIRED TO FILL UP AVAILABLE VERTICAL SECTION SPACE.
- 11. PROVIDE ASD SUITABLE FOR MOTOR FULL LOAD AMPS AS INDICATED. SEE SPECIFICATIONS 26 29 23 FOR ADDITIONAL SIZING CRITERIA.

PK2-70-E-633

NCWRP EXPANSION AND NCPWF INFLUENT PS & PIPELINE PACKAGE 2 - NORTH CITY WRP EXPANSION ELECTRICAL NEW SECONDARY CLARIFIER MCC ONLINE		B-16149, S-17012 WBS B-15142
CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 926 OF 1169 SHEETS		APPROVED: <i>[Signature]</i> FOR CITY ENGINEER: <i>[Signature]</i> PRINT DCE NAME: <i>[Signature]</i> DATE: 12/03/2020 RCE#: C70321
SUBMITTED BY: MONIKA SMOCZYNSK PROJECT MANAGER		PROJECT NO: 260-1709 CCS27 COORDINATE 1900-6269 CCS33 COORDINATE
DESCRIPTION Addendum D	BY CH	APPROVED <i>[Signature]</i>
DATE 2/26/21	FILM	DATE STARTED DATE COMPLETED
CONTRACTOR INSPECTOR		40381-2926-D

CONSULTANT

WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
STEPHEN HANSEN
No. E21673
ELECTRICAL
STATE OF CALIFORNIA

DIGITALLY SIGNED:
02/24/2021

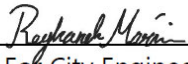
ENGINEER OF WORK

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineers:

Mark Elliott _____ 3/4/2021
1) Registered Engineer Date



DIGITALLY SIGNED: 3/4/2021

 _____ 3/8/2021
2) For City Engineer Date

Seal:



A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

B. BIDDER'S QUESTIONS

Q1. Specification section 44 44 63 does not clearly outline the sizing requirements of the polymer system. Section 2.02.D.2 references a pump schedule. After looking through the documents I am unable to find the schedule in the drawings or the specifications. Are you able to point out where this pump schedule is located in the specification documents?

A1. See changes in this Addendum E.

Q2. Pertaining to Addendum C issued Feb 24, 2021: Drawing PK2-ES-401 shows the addition of Ductbanks DB31, DB32 and DB35 requiring innerduct in each conduit. Are these ductbank conduits existing or new?

A2. Portions of the duct banks are new and a portion of the duct banks were installed as part of a previous construction package. See site plans. Install inner duct for the length of the existing and new duct banks to facilitate the fiber installation.

Q3. Pertaining to Addendum C issued Feb 24, 2021: Drawing ES-106 and ES-107 both show a portion of DB35 connecting to an existing ductbank on Drawing ES-106. Which drawings show DB31 and DB32?

A3. DB31/32 are shown on PK2-ES-101, per Addendum A. See note 12 on sheet PK2-ES-101.

Q4. Pertaining to Addendum C issued Feb 24, 2021: Drawing ES-116 Note-9 calls for installation of existing coiled fiber optic cable to be installed in new conduit to 20PCM03D with the run continuing on PK2-ES-112, however Note-9 on PK2-ES-112 states to use existing underground ductbank extending to 20PCM03D. Is the conduit for this run of fiber existing or new?

A4. Note 9 refers to the specific section of raceway that is bracketed. The bulk of the raceway (in the yard) is new and will need to intercept existing raceways entering facility 20.

- Q5. Specification section 40 90 07 – 5 3.03 A. 2. states “DCSP shall procure, program and stage all system elements at the approved staging area to build a complete and operable DCS.”. Due to the large, required size of the PCM enclosure (96”H x 72”W x 24”D), would it be acceptable to stage only the IO back plates of the PCM enclosures at the approved staging site for FAT and ship the PCM enclosures without back plates from the PCM cabinet manufacturing facility directly to NCWRP? If not acceptable, would the City be willing to travel to the PCM cabinet manufacturing facility, if within 25 miles of NCWRP, for FAT?
- A5. Of the 13 PCMs, only two are new. The remainder are existing processors (within the existing PCMs), and must be kept in service. The cabinets for the existing PCM controllers will be re-used, the new back panels. The new PCMs and back panels would need to be staged at the DCSP’s facility across the street from the City’s MOC complex for FAT purposes. Temporary processors, to be provided by the DCSP, will need to be utilized to demonstrate proper functionality of the new back panels.
- Q6. Coarse Bubble: Section 1.03 G - This shows the airflow per diffuser and the total airflow. These numbers match up to a total of 24 diffusers per basin. Twenty-four units are listed to be supplied, however, the drawings show 32 units. Is it up to the manufacturer to decide on the quantity based on their calculations/design? Page 7, 2.06 B shows a listing of 24 diffusers. Again, on the drawing it shows 32.
- A6. Provide the number of diffusers required by the specifications. The coarse bubble diffusers on Drawing 15-D-101 are only schematic and show the general locations and configuration.
- Q7. Section 44 42 56.06, Submersible Horizontal Propeller Pumps
2.07.A.2, please allow motor routine test per ZN56525-1 standard
MLR Pump Data Sheet
Design and Material,
Please accept pump with gear box design
- A7. The specification does not exclude gear boxes. However, substitutions (materials and/or suppliers) will need to meet the requirements of the specifications and plans, and requests for substitutions will be evaluated in accordance to SSP 4-6.
- Q8. Specification Section 01 31 13 1.03 Project Coordination notes work from separate contracts that is directly or indirectly related to scheduled

performance of the work under this new contract. Is the work under Contract 4 – Early Site Work and Ozone/ BAC Relocation complete or will it affect the start of the New Secondary Clarifiers? If that work is not completed, when can work on the new Secondary Clarifiers begin.

- A8. Work under the Package 4 Early Site Work and Ozone/BAC Relocation will be complete prior to NTP.
- Q9. How is it that the North City Renewable Energy Project is expected to affect the Pure Water WRP Expansion project?
- A9. The North City Renewable Energy project does not affect this project.
- Q10. Specification Section 01 50 00 2.10 notes that Contractor shall make arrangements to obtain the lease payments for the construction manager field office. What is the expected cost for this that should be carried on the estimate for construction manager field offices?
- A10. Refer to Addendum B.
- Q11. The plan views for the Bioreactors on Drawings PK2-15-S-111 to S-114 calls for Medium Duty Alum Grating on top of the structure, while Section "G, H and J in drawing PK2-15-S-307 shows Light Duty Alum Grating at the same location. Please confirm which is the proper grating to be used on the Bioreactor?
- A11. They are Medium Duty AL Gratings.
- Q12. Please provide dimensions between the numeric grid lines in the First Stage Bioreactor Basins. The current drawings do not provide this information.
- A12. The distances between the numerical gridlines are defined by the existing structural walls. It is intentionally not to show the exact distances between gridlines in the plans. The approximate distances can be scaled from the plan, but the exact dimensions shall be field measured by Contractor.
- Q13. 05 52 16 Calls for Aluminum Railing to be anodized. Please provide an anodizing specification.
- A13. Additional information was provided in Addendum D.
- Q14. The Contract Specifications contain Specifications for Package 2 and 3. 03 30 00 for Package 2 calls out a Thermal control plan for concrete with a thickness of more than 2'-6" thick. The plan will be developed by the Contractor's engineer. The specification also requires the installation of temperature sensors for pours greater than 2'-6" inches. Section 03 30 00

for Package 3 does not address developing a thermal control plan but requires the Contractor to install cooling tubes for Mass concrete without defining what is considered Mass Concrete. In order to cut down on confusion please use one concrete specification with the same requirements for a thermal control plan and also identify what is considered Mass Concrete for both Packages 2 and 3.

- A14. The installations for Package 2 and Package 3 are different and unique for their respective packages. Please abide by the requirements of each respective package. Clarification of mass concrete has been provided. See changes in this Addendum E.
- Q15. 03 30 00 for Package 2, the Class 5000F3S1P2C2 concrete specification paragraph C.6 states that unless otherwise specified, provide air content based on nominal maximum aggregate size and that the max air content is 4%. 03 30 00 for Package 3 calls for the same mix listed above to have an air content based on the nominal aggregate size to me a maximum of between 4.5 to 7.5%. Please advise which specification section is correct.
- A15. 4% will be required for all packages. See changes in this Addendum E.
- Q16. Drawing PK2-01-D-301, Note 1 states: All (N) piping per spec 40 27 00.001B shall be Glass lined Ductile Iron (GLDI). Pipe schedule on drawing PK2-G-103 calls out CW-Combined Waste system to be Poly-Lined Ductile Iron (PLDI). Please clarify if CW system shall either be GLDI or PLDI.
- A16. CW piping shall be PLDI.
- Q17. Drawing PK2-10-D-303 calls out a flushing connection on 4 inch PSL (Primary Sludge) system discharge line on all Primary Sludge Pumps No's 1-9. Vol 14 does not show detail called out as detail 4442-182. Please provide proper flushing detail as stated in drawing as detail 4442-182.
- A17. Replace that detail number with the following: 4027-182.
- Q18. Drawing PK2-10-D-107 shows a two (2), 2 inch Polymer Solution lines going to the Grit Chamber Effluent, drawing PK2-10-D-301 shows that 2 inch POS line as well but to be a 4 inch diameter line not 2 inch. Please clarify if this is a typo and it is in fact a 2 inch line or is this really 4 inch diameter. Please clarify.
- A18. All the POS lines in this area are 2".
- Q19. Drawing PK2-10-D-143 Shows 1 inch Service Air line and stops just passing the air receiver tank. Please clarify if these SA 1 inch lines tie into existing

lines or do they count all the way to the RAS system. Please clarify for estimating purposes.

A19. The 1" SA leaves the receiver and connects to the air controller panels.

Q20. Drawing SW-106 shows a concrete lug required for the new 8" RCP coming into the existing 18" RCP pipe. The San Diego Regional Standard Drawings on the Concrete Lug Detail (D-63) states in note 2. "The larger pipe shall not be less than 24" ID. The larger pipe in this case is 18" which makes it less than 24". Please clarify if another detail or method to use with 18" pipe size.

A20. The concrete lug connection has been replaced with an ISERTA TEE connection as part of Addendum C.

Q21. Is the CLSM shown on drawing PK3-36-S-301 under the NCPWF Influent Pump Station required?

A21. Yes.

Q22. Please confirm that the "Demo Existing Secondary Clarifiers are in Bid Item 13.

A22. Yes, that is correct.

Q23. Please confirm that the "Structural Supports Existing Secondary Clarifiers are in Bid Item 13.

A23. Yes, that is correct.

Q24. What Bid Item does the Flow Equalization Basin Entrance Wall fall under? Dwg. PK2-12-S-100.

A24. The Bid item "Site Civil Grading".

Q25. What Bid Item does the Retaining Wall fall shown on Dwg. PK2-12-S-100 fall under?

A25. The Bid item "Site Civil Grading".

Q26. Add. C Plan Sheet PK2-CX-106 shows a fire hydrant relocation and refers to sheet CG-106. CG-106 shows the approximate locations, but provides no details. Please provide further information.

A26. See Addendum B, drawing PK2-CG-106 for FH location.

- Q27. There is a temporary generator required for replacing the USS's. Can you issue a report of the full load amps each USS is using?
- A27. An estimate of substation operating loads and potential available operating capacity has been provided. See page 24 of this Addendum E.
- Q28. The Temporary generator will require a significant amount of fuel to run 24/7. Is it possible to run temporary power from another USS to give temporary power to the one being replaced?
- A28. The Contractor shall submit detailed plans, calculations and metering provisions for any proposed connections to plant substations.
- Q29. In Addendum B, Technical Specs (Pkg 2), Section 01 31 13 Project Coordination, Part 1 General, Item 1.07 Facility Operations, Sub-Item G.7 was added and states, "Maintain chemical truck access for chemical deliveries through the site to Facility 55 at all times..." Please clarify if access is required to a certain part of Facility 55 or if any adjacent roadway to Facility 55 is acceptable. Please also confirm that any temporary containment or chemical delivery facilities required will be provided by the Owner.
- A29. The Contractor shall maintain delivery truck access to the chemical fill facilities located on the east side of Area 55 at all times and maintain access to the roll-up doors located on the west side of Area 55 at all times.
- Q30. In Addendum B, Technical Specs (Pkg 2), Section 01 31 13 Project Coordination, Part 1 General, Item 1.07 Facility Operations, Sub-Item B was replaced and now states "The Contractor shall be solely responsible for maintaining continued and uninterrupted operation of all facilities in the project area and shall prepare all required Maintenance of Plant Operations (MOPO) Plans for all facilities affected by its work. The MOPO Plan shall detail how, but not limited to, the following elements that will allow the water reclamation plant to function continuously with appropriate capacity during construction: sequence of construction activities, temporary works, and bypassing." Please confirm that the Process or Facility Shutdowns that are described in Section 01 31 13, Part 1 General, Item 1.07 Facility Operations, Sub-Item H will be allowed and that these shutdowns and sequence do not require bypass or temporary works to keep the plant operating unless specifically stated within this section.
- A30. The shutdowns described in Section 01 31 13 1.07 Facility Operations provide the constraints required for unit processes required to maintain the facility in operation. Unless bypass pumping/piping is described in this section, it would not be required for those unit processes being described.

Thenshutdowns listed in this section and timelines of the shutdowns are allowed.

- Q31. Please confirm that in all existing structures/areas where the Contractor will be performing work that the Owner will have removed sludge/debris/wastewater prior to the Contractor commencing work in each area. If this is not the case, please provide by structure/area the anticipated water and sludge depths that should be utilized as a basis for bid for the Contractor to remove.
- A31. The City will assist the Contractor by operating the NCWRP to isolate and drain process units to the extend allowed by existing facility configuration. The Contractor is responsible for isolating, draining and cleaning existing facilities where Work is required. Refer to Hydraulic Profile Drawings PK2-G-101 (40381-2043-D), PK2-G-102 (40381-2044-D) and PK3-G-101 (40381-2038-D) for process water depths.
- Q32. Technical Specs, Section 01 50 00 Temporary Facilities and Controls, Part 3 Execution, Item 3.03 Protection of Work and Property, Sub-Item A.15 states "Provide a preconstruction and post construction video condition assessment and report for the existing 60-inch storm drain located on site for its entire length. The report shall include all condition issues for the existing pipeline and recommendations for repairs." Please confirm the length of pipe that is considered "for its entire length". Does this mean only portion of pipe that falls within the project limits? Also please clarify that if repairs are recommended after the preconstruction video condition assessment that these repairs, if completed by the Contractor, will be done under a change order.
- A32. The intent of this requirement is to document the condition of the existing 60" storm drain within the NCWRP site. If existing damage is observed after the preconstruction assessment, any repairs would be via change order and prior to any work affecting the SDR or on top of the SDR. The contractor would be responsible for repairs of any damage caused by construction activity as identified by review and analysis of the post video instpection and reports.
- Q33. Milestone 3, Completion and Early Acceptance for Beneficial Use of the Secondary Clarifiers and associated piping facilities is currently required to be completed within 435 working days after Notice to Proceed. Due to the constraints, sequencing and lead times associated with this item of work achieving this milestone will require multiple shifts, overtime and large amounts of inefficiencies that will result in larger costs to the Owner. This is due to the Pipe Protection Slab, that must precede all work, the submittal and procurement of the underground piping that must precede the

construction of the clarifiers themselves, along with the curing and water test periods that must be completed prior to backfilling the clarifiers. It would be more cost effective for the Owner to extend the duration of Milestone 3. This would not delay the project. Please consider extending milestone 3 by 100 working days to 535 working days after Notice to Proceed.

- A33. See revisions in this Addendum E.
- Q34. Addendum B added 10" LG line in Area 7 per DWG. PK2-Y-107 & 137. Please provide pipe information on piping schedule.
- A34. 10" LG is HDPE. Match existing DR. Material shall be in accordance with Specification section 33 05 15.10 HDPE Pressure Pipe and Fittings. The pipe shall be dried and purged as a part of the commissioning process. Test pressure is 5 psi with a pneumatic test. Operation pressure is 2 psi.
- Q35. Per Spec Section 33 05 01.01 Welded Steel Pipe and Fittings, Pg. 10 (or 1804 overall) 2b states that the Fittings and Specials Fabricator must have a SPFA Certification, Lloyd's Registry Certification, or ISO 9001:2000 Certification. This requirement disqualifies pipe suppliers on this project. Is it possible to get an exception?
- A35. Pipe specified in 33 05 01.01 requires manufacturers/suppliers to meet the requirements of this specification section.
- Q36. Reference is made to Addendum C, Questions and Answers No. 70 and 72 regarding the Debarment and Suspension Certification for Subcontractors, Suppliers, and Manufacturers form. On the previous North City Pure Water Facility project that bid in October 2020, Primes were allowed to turn this form in within 24 hours as requested in Question 70. Additionally, in conjunction with the requirement from Answer 72, this puts an onerous burden on the Prime to compile this information at time of bid. We respectfully request the City reconsider allowing the Debarment and Suspension Certification for Subcontractors, Suppliers, and Manufacturers to be turned in within 24 hours after the bid.
- A36. The Debarment and Suspension Certification for Subcontractors, Suppliers, and Manufacturer forms may be submitted via email to the Contract Specialist on the cover page of the solicitation, by 5:00 PM, 1 working day after the bid due date. Failure to submit the forms by the due date and time may deem your bid nonresponsive.
- Q37. The Structure Monitoring Specification Section 01 46 00 restricts soldier or sheet pile movements when adjacent to an existing structure to 3/8 of an

inch. This tight tolerance greatly increases the cost of the support of excavation. As the majority of structures are located below grade please confirm that the soldier or sheet pile movement limit can be revised to 1" when adjacent to below grade structures.

- A37. The lateral movement of shoring is limited by how much the existing adjacent structures can tolerate without any damage. It is a structural criteria depending on the type of structures and their foundations. Based on the site geotechnical conditions, the specified movement requirement is necessary in order to reduce the risk of damage.
- Q38. Specification Section 31 23 23 Fill and Backfill sub-section 3.05 provides information for Sand Blankets over Vapor Retarder. The plans do not appear to identify any structures requiring below grade vapor barriers/retarders. Please advise if any structures require below grade vapor barriers/retarders.
- A38. Vapor retarders are required under slabs on grade housing electrical equipment. See changes in this Addendum E.
- Q39. I have a couple questions regarding the answer supplied in response to the approval requests mentioned in my emails below. On January 14th I sent you 3 separate emails regarding 3 specification sections for which we are seeking approval. Each email contained completed product approval as per SSP 4.6. Subsequently, a responses to one of our requests was provided in addendum B, Answer #9 which states substitutions will be evaluated in accordance with SSP 4.6. We're not sure how to interpret that answer so I have the following questions:
1. Does the reply referencing SSP 4.6 mean that the approval will be evaluated later? If so, can you confirm when?
 2. Did we provide sufficient information in our approval request to comply with SSP 4.6? If not, can you confirm what else may be needed?
 3. Are all 3 of our approval questions being considered even though only on is referenced in addendum B?
- A39. Review of substitutions and completeness of submittals will be evaluated after the determination of the Apparent Low Bidder except as specifically approved or denied by Addendum.

Q40. In Addenda A on multiple Project Key Plans, Area 56, the Urea Facility, was altered to "Not Used". In Addenda C, Bid Item for "Urea Chemical Facility" was removed as well as mention of the Urea Facility in Technical Specifications 01 91 14 and 01 45 33. In Addenda D, Answer 43 it was further clarified that "Facility 56 is no longer part of the project." Though it is clear that the Urea Facility is no longer a part of the project, the plan sheets appear to as of yet not been officially removed from the contract documents. Please confirm that drawing numbers PK2-56-R-100 through PK2-56-E-110 should be removed from the contract plans.

A40. Facility 56 was removed from the plans in a previous addendum. All drawings related to facility 56 (PK2-56) are removed from the contract.

Q41. The landscape drawings do not appear to address the irrigation enclosures, can these remain, or do they need to be replaced?

A41. Irrigation controller enclosures must be replaced and is shown on the project plans.

Controller model numbers are shown on L-601. The S1 and S2 component of the controller number indicates stainless steel controller pedestal component.

Enclosure is also shown on Detail A/ L-603.

Q42. In regard to Addendum D, A70., please confirm if every loop coming into Ovation is to be field verified

A42. Yes, Since the DCSP is developing all new HMI high performance graphics screens, all I/O points will need to be checked.

Q43. In regard to Addendum D, A70., will complete documentation for every existing hard-wired point be provided? If not, what percentage or count of existing hard-wired points are missing?

A43. As part of the discovery process, the percentage of loop wiring diagrams that are to be generated will be determined by the Contractor.

Q44. In regard to Addendum D, A70., will the drawings developed during field verification need to be stamped by a CA registered PE?

A44. No.

Q45. In regard to Addendum D, A70., will the new installation drawings and new loop drawings need to be stamped by a CA registered PE?

A45. No.

Q46. In regard to Addendum D, A70., does the "new loop drawings" statement mean, new loop drawings for existing loops that may be missing or for the new loops added under this project?

A46. The determination of a "new" loop drawing must a part of the discovery process. In the end, the City must have a complete set of loop wiring diagrams.

Q47. In regard to Addendum D, A70., is it required to field verify Drop 5 and Drop 8, the two drops being demolished?

A47. No.

Q48. PK2-15-E-102

On drawing PK2-15-E-111 the following control panels are called out; 15PNL120 and 15PNL130. These panels are not located on the PID's or in the control panel schedule. Please advise if these panels are part of a vendor package

A48. Electrical drawings will be updated in the Conformed Set. Use P&ID PK2-N01-N-112K for proper tagging. These items are either existing or the tagging will be revised in the conformed set. This should not impact materials or quantities for the bid.

Q49. The following instruments listed on the following drawings are not shown on the PID's or the instrument schedule. Please advise if these are part of a vandor package and supply the necessary data sheets for each instrument.

a) Drawing PK2-15-E-102: 15PSH671, 15PSL671, 15PIT671, 15TIT670, 15PDT611, 15PDT621, 15PDT621, 16PDT611.

b) Drawing PK2-15-E-103: 16TET612

c) Drawing PK2-15-E-111: 15FET090

d) Drawing PK2-15-E-113: 15FET171, 15FET172, 15FET173

e) Drawing PK2-57-E-090: 57PSH514, 57PSH516, 57PSH517, 57PSH517

f) Drawing PK2-58-E-120: 58LET956

A49. See response as follows:

- a) 15PDT631 15TIT670, 15PSH, PSL, and PIT671 are existing and won't be replaced. Electrical drawings will be updated in Conformed Set. These items are either existing or the tagging will be revised in the conformed set. This should not impact materials or quantities for the bid.
- b) Shown on PID PK2-N01-N-114C, this instrument is part of packaged system as noted by the asterisk next to it on the PID.
- c) 15FET090 is actually 15FET581, as shown on the PID. Electrical drawings will be updated in Conformed Set. This should not impact materials or quantities for the bid.
- d) These should be 15FET221, 222, and 223 as shown on PK2-15-D-113 and PK2-N01-N-112B, C and D. Electrical drawings will be updated as part of the Conformed Set. This should not impact materials or quantities for the bid.
- e) Packaged instrument shown on PID PK2-N01-N-124E and F.
- f) This is instrument 58LET856. Tag will be revised on the electrical drawing as part of the Conformed Set. This should not impact materials or quantities for the bid.

Q50. PID's, Electrical Drawings, Instrument Schedule

Flow meters are referred to in the PID's, electrical drawings and instrumentation schedule but currently do not have specifications or data sheets for them. Please supply data sheets and specifications outlining the flow meters required for the project.

A50. Two manufacturers have been listed in the data sheets. It is up to the Contractor to submit on the selected flow meters for this project.

C. ATTACHMENTS

1. To Attachment A, Scope of Work, Item 3, Contract Time, Milestone 3, Page 31, **DELETE** in its entirety and **SUBSTITUTE** with the following:

Milestone 3	Completion and Early Acceptance for Beneficial Use of the Secondary Clarifiers and associated piping and facilities	475 Working Days after Notice to Proceed
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2. To Attachment D, FUNDING AGENCY PROVISIONS, Item 10, DAVIS-BACON WAGE RATES AND PROVISIONS, sub-item 10.1., WAGE RATES, pages 59 through 89, **DELETE** in their entirety and **SUBSTITUTE** with pages 25 through 53 of this Addendum.

D. SUPPLEMENTARY SPECIAL PROVISIONS

1. To Attachment E, Supplementary Special Provisions, Section 6 – Prosecution and Progress of Work, Section 6-9 Liquidated Damages, Item 3, Page 163, Milestone 3, **DELETE** in its entirety and **SUBSTITUTE** with the following:

Milestone 3	Completion and Early Acceptance for Beneficial Use of the Secondary Clarifiers and associated piping and facilities	475 Working Days after Notice to Proceed	\$1,000/Calendar Day
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2. To Technicals (Package 2), Section 01 50 00 Temporary Facilities and Control, Part 1 General, Item 1.02 Submittals, Sub-Item A, numeral 4, Page 358, **DELETE** in its entirety and **SUBSTITUTE** with the following:

4. Temporary Utility Submittals (including, but not limited to, requirements associated with Section 02 41 00 Demolition).
 - a. Electric power supply and distribution plans.
 - b. Water supply and distribution plans.
 - c. Sanitary.
 - d. Centrate line.

3. To Technicals (Package 2), Section 02 41 00 Demolition, Part 1 General, Item 1.03 Submittals, Sub-Item A, numeral 1, letter a, Page 546, **ADD** the following:

- a. Provide electrical power supply plan for temporary power requirements as coordinated with Owner and Construction Manager.

4. To Technicals (Package 2), Section 02 41 00 Demolition, Part 3 Execution, Item 3.01 Existing Facilities to be Demolished or Renovated, Sub-Item M, Page 551, **DELETE** in its entire and **SUBSTITUTE** with the following

M. Prior to performing any demolition work on the existing utilities, substations, or facilities, the Contractor shall coordinate all efforts with Owner to define details and schedules of temporary shutdowns of existing utilities or facilities, or maintaining of continuous plant operation. A detailed sequencing plan including drawings for planned temporary connections shall be provided for coordination with the Owner.

5. To Technicals (Package 2), Section 03 30 00 Cast-in-Place Concrete, Part 2 Products, Page 638, **ADD** the following after Item 2.05 Source Quality Control:

2.06 Below-Grade Vapor Retarders

A. Summary: Vapor barrier and installation accessories for installation under concrete slabs. To be provided at all on-grade slabs with electrical equipment and any condition meeting those listed in ACI 302.2R-06.

B. Materials: Vapor barrier shall have all the following qualities

1. Maintain permeance of less than 0.01 Perms [grains/(ft²-hr-inHg)] as tested in accordance with mandatory conditioning tests per STM E1745 Section 7.1 (7.1.1-7.1.5).

2. Other performance criteria:

a. Strength: ASTM E1745 Class A.

b. Thickness: 15 mils minimum.

C. Products:

1. Basis of Design: Stego Wrap Vapor Barrier (15-mil) by Stego Industries LLC., (887) 464-7834

2. Approved equivalent meeting all required criteria.

D. Accessories:

1. Seams

a. Stego Tape by Stego Industries

b. Approved equivalent meeting all required criteria.

2. Sealing penetrations of vapor barrier:
 - a. Stego Mastic by Stego Industries
 - b. Stego Tape by Stego Industries.
 - c. Approved equivalent used with compatible system.
 3. Perimeter/terminated edge seal:
 - a. Stego Crete Claw (textured tape) by Stego Industries
 - b. Stego Tape Bar by Stego Industries.
 - c. Stego Tack Tape (double-sided sealant tape) by Stego Industries.
 - d. One-sided seaming tape shall not be the method of sealing at the terminated edge.
 - e. Approved equivalent used with compatible system.
 4. Penetration Prevention:
 - a. Beast Foot by Stego.
 - b. Approved equivalent used with compatible system.
6. To Technicals (Package 2), Section 03 30 00 Cast-in-Place Concrete, Part 3 Execution, Page 657, **ADD** the following after Item 3.14 Supplements:
- 3.15 Below-Grade Vapor Retarder Installation
- A. Preparation
 1. Ensure that subsoil is approved by Design Engineer.
 - a. Level and compact base material per specifications.
 2. Contact vapor barrier manufacturer to schedule a pre-construction meeting and to coordinate a review, in-person or digital, of the vapor barrier installation.
 - B. Installation
 1. Install vapor barrier in accordance with ASTM E1643.

2. Unroll vapor barrier with the longest dimension parallel with the direction of the concrete placement and face laps away from the expected direction of the placement whenever possible.
3. Extend vapor barrier to the perimeter of the slab. If practicable, terminate it at the top of the slab, otherwise, at a point acceptable to the Design Engineer and where obstructed by impediments such as dowels, water stops, or any other site condition requiring early termination of the vapor barrier. At the point of termination, seal vapor barrier to the foundation wall, grade beam, or slab itself.
 - a. Seal vapor barrier to the entire slab perimeter using manufacturer's textured tape with a surface that creates a mechanical seal to freshly placed concrete, per manufacturer's instructions.
 - b. Or, seal vapor barrier to the entire perimeter wall or footing/grade beam with manufacturer's double-sided tape, or both termination bar and double-sided tape, per manufacturer's instructions. Ensure the concrete is clean and dry prior to adhering tape.
4. Overlap joints 6 inches and seal with manufacturer's seam tape.
5. Apply seam tape/textured tape/double-sided tape to a clean and dry vapor barrier.
6. Seal all penetrations (including pipes) per manufacturer's instructions.
7. Avoid the use of stakes driven through vapor barrier by utilizing screed and forming systems that will not puncture the vapor barrier.
8. Repair damaged areas with vapor barrier material of similar or better permeance, puncture and tensile.
9. Utilize vapor barrier sealing accessories from the same manufacturer as the vapor barrier membrane.

10. Install sand layer for vapor barrier in accordance with 31 23 23 Fill and Backfill
7. To Technicals (Package 2), Section 03 30 00 Cast-In-Place Concrete, Part 3 Execution, Item 3.14 Supplements, Sub-Item A numeral 1 Concrete Mix Design Class 5000F3S1P2C2, Sub-Item C, Mix Properties, numeral 5, Page 659, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 5. Unless otherwise specified, provide air content of 4 percent.
8. To Technicals (Package 2), Section 03 30 00 Cast-In-Place Concrete, Part 3 Execution, Item 3.14 Supplements, Sub-Item A numeral 2 Concrete Mix Design Class 4500F2S1P1C1, Sub-Item C, Mix Properties, numeral 2, letter c, Page 663, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - c. Unless otherwise specified, provide air content of 4 percent.
9. To Technicals (Package 2), Section 03 30 00 Cast-In-Place Concrete, Part 3 Execution, Item 3.14 Supplements, Sub-Item A numeral 3 Concrete Mix Design Class 4500F1S1P0C1, Sub-Item C, Mix Properties, numeral 4, Page 667, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - c. Unless otherwise specified, provide air content of 4 percent.
10. To Technicals (Package 2), Section 03 30 00 Cast-In-Place Concrete, Part 3 Execution, Item 3.14 Supplements, Sub-Item A, numeral 6 Concrete Mix Design Class CF00F1S1P0C1, Sub-Item A, Mix Locations, Page 675, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 - A. Mix Locations: Concrete Fill and where specified in the contract documents.
11. To Technicals (Package 2), Section 03 30 00 Cast-In-Place Concrete, Part 3 Execution, Item 3.14 Supplements, Sub-Item A, numeral 6 Concrete Mix Design Class CF00F1S1P0C1, Sub-Item C, Mix Properties, numeral 4, Page 675, **DELETE** in its entirety.
12. To Technicals (Package 2), Section 44 44 63.01 Polymer Feed System, Liquid, Part 2 Products, Item 2.02 Equipment, Sub-Item A, Page 4547, **ADD** the following after numeral 5:
 6. Provide variable speed controller for pump to accept 4-20 mA signal.
 - a. Input Voltage: 115V ac.
 - b. Output Voltage: As required for supplied motor.
 - c. Signal Input 4 mA to 20 mA.

- d. Maximum Output Current: 10 amps.
 - e. Adjustable minimum speed, maximum speed, current limit, IR compensation and signal input adjustment.
 - f. Speed range 20:1 with 3 percent linearity.
13. To Technicals (Package 2), Section 44 44 63.01 Polymer Feed System, Liquid, Part 2 Products, Item 2.02 Equipment, Sub-Item B, numeral 3, Page 4547, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- 3. Flow: 1.5 to 10 gph.
14. To Technicals (Package 2), Section 44 44 63.01 Polymer Feed System, Liquid, Part 2 Products, Item 2.02 Equipment, Sub-Item B, Page 4547, **ADD** the following after numeral 4:
- 5. Polymer solution concentration 0.1 to 0.5 percent.
 - 6. Active polymer rate: 30 to 105 pounds per hour, active polymer basis.
 - 7. Dilution water rate: up to 50 gallons per minute.
15. To Technicals (Package 2), Section 44 44 63.01 Polymer Feed System, Liquid, Part 2 Products, Item 2.02 Equipment, Sub-Item D, numeral 2, Page 4548, **DELETE** in its entirety.
16. To Technicals (Package 2), Section 44 44 63.01 Polymer Feed System, Liquid, Part 2 Products, Item 2.02 Equipment, Sub-Item D, Page 4548, **ADD** the following after numeral 3:
- 4. Roto, Shaft, and Shaft-Sleeve: Type 316 stainless steel.
 - 5. Stator: Viton; compatible with the full range of high molecular weight cationic emulsion polymers.
 - 6. Joint Type: Pin-type with replaceable bushings and sleeves.
 - 7. Shaft Seal: Mechanical seal with no external flushwater.
 - 8. Drive configuration: Close-coupled gear-reducer.
 - 9. Pump Housing, Bearing Housing, and Gearbox Housing: Cast iron.
17. To Technicals (Package 2), Section 44 44 63.01 Polymer Feed System, Liquid, Part 2 Products, Item 2.03 Control Systems, Sub-Item C, numeral 1, Page 4549, **ADD** the following after letter c:
- d. Polymer metering pump flow rate.

18. To Technicals (Package 3), Section 03 30 00 Cast-In-Place Concrete, Part 1 General, Item 1.02 Definitions, Page 4717, **ADD** in its entirety following Sub-Item F:
- G. Mass Concrete: Concrete sections with a minimum specified dimension that is greater than 2'-6".
19. To Technicals (Package 3), Section 03 30 00 Cast-in-Place Concrete, Part 2 Products, Page 4730, **ADD** the following after Item 2.06 Temperature Control System for Mass Concrete Sections:

2.07 Below-Grade Vapor Retarders

- A. Summary: Vapor barrier and installation accessories for installation under concrete slabs. To be provided for entire Facility.
- B. Materials: Vapor barrier shall have all the following qualities
1. Maintain permeance of less than 0.01 Perms [grains/(ft²-hr-inHg)] as tested in accordance with mandatory conditioning tests per STM E1745 Section 7.1 (7.1.1-7.1.5).
 2. Other performance criteria:
 - a. Strength: ASTM E1745 Class A.
 - b. Thickness: 15 mils minimum.
- C. Products:
1. Basis of Design: Stego Wrap Vapor Barrier (15-mil) by Stego Industries LLC., (887) 464-7834
 2. Approved equivalent meeting all required criteria.
- D. Accessories:
1. Seams
 - a. Stego Tape by Stego Industries
 - b. Approved equivalent meeting all required criteria.
 2. Sealing penetrations of vapor barrier:
 - a. Stego Mastic by Stego Industries
 - b. Stego Tape by Stego Industries.
 - c. Approved equivalent used with compatible system.

3. Perimeter/terminated edge seal:
 - a. Stego Crete Claw (textured tape) by Stego Industries
 - b. Stego Tape Bar by Stego Industries.
 - c. Stego Tack Tape (double-sided sealant tape) by Stego Industries.
 - d. One-sided seaming tape shall not be the method of sealing at the terminated edge.
 - e. Approved equivalent used with compatible system.
 4. Penetration Prevention:
 - a. Beast Foot by Stego.
 - b. Approved equivalent used with compatible system.
20. To Technicals (Package 3), Section 03 30 00 Cast-in-Place Concrete, Part 3 Execution, Page 4747, **ADD** the following after Item 3.14 Supplements:

3.15 Below-Grade Vapor Retarder Installation

A. Preparation

1. Ensure that subsoil is approved by Design Engineer.
 - a. Level and compact base material per specifications.
2. Contact vapor barrier manufacturer to schedule a pre-construction meeting and to coordinate a review, in-person or digital, of the vapor barrier installation.

B. Installation

1. Install vapor barrier in accordance with ASTM E1643.
2. Unroll vapor barrier with the longest dimension parallel with the direction of the concrete placement and face laps away from the expected direction of the placement whenever possible.
3. Extend vapor barrier to the perimeter of the slab. If practicable, terminate it at the top of the slab, otherwise, at a point acceptable to the Design Engineer and where obstructed by impediments such as dowels, water stops, or any other site condition requiring early

termination of the vapor barrier. At the point of termination, seal vapor barrier to the foundation wall, grade beam, or slab itself.

- a. Seal vapor barrier to the entire slab perimeter using manufacturer's textured tape with a surface that creates a mechanical seal to freshly placed concrete, per manufacturer's instructions.
 - b. Or, seal vapor barrier to the entire perimeter wall or footing/grade beam with manufacturer's double-sided tape, or both termination bar and double-sided tape, per manufacturer's instructions. Ensure the concrete is clean and dry prior to adhering tape.
4. Overlap joints 6 inches and seal with manufacturer's seam tape.
 5. Apply seam tape/textured tape/double-sided tape to a clean and dry vapor barrier.
 6. Seal all penetrations (including pipes) per manufacturer's instructions.
 7. Avoid the use of stakes driven through vapor barrier by utilizing screed and forming systems that will not puncture the vapor barrier.
 8. Repair damaged areas with vapor barrier material of similar or better permeance, puncture and tensile.
 9. Utilize vapor barrier sealing accessories from the same manufacturer as the vapor barrier membrane.
 10. Install sand layer for vapor barrier in accordance with 31 23 23 Fill and Backfill.

James Nagelvoort, Director
Engineering & Capital Projects Department

Dated: *March 9, 2021*
San Diego, California

JN/RWB/rd

NCWRP APPROXIMATE MAIN PLANT SWITCHGEAR LOADS

TOTAL LOADS MAIN PLANT SWITCHGEAR							
	LOAD DESCRIPTION	VOLTAGE KV	OPERATING LOAD SIDE 1 KVA	OPERATING LOAD SIDE 2 KVA	TOTAL NEW OPERATING LOAD KVA	EXISTING EQUIPMENT CAPACITY KVA	AVAILABLE OPERATING KVA
	SUBSTATION 68	12	4617.60	6806.51	11424.11		
	SUBSTATION 61	0.48	911.10	622.60	1533.70	2576.00	1042.30
	SUBSTATION 62	0.48	707.84	749.40	1457.24	2576.00	1118.76
	SUBSTATION 63	0.48	314.58	361.52	676.10	1288.00	611.90
	SUBSTATION 64	4.16	800.00	1290.00	2090.00	6250.00	4160.00
	SUBSTATION 65	0.48	466.24	684.24	1150.48	2576.00	1425.52
	SUBSTATION 66	0.48	220.96	404.24	625.20	1932.00	1306.80
	SUBSTATION 67	0.48	543.30	477.06	1020.36	1932.00	911.64
	SUBSTATION 69	0.48	253.58	17.45	271.03	1932.00	1660.98

10. DAVIS-BACON WAGE RATES AND PROVISIONS:

10.1. WAGE RATES: This contract shall be subject to the following Davis-Bacon Wage Decisions:

"General Decision Number: CA20210001 03/05/2021

Superseded General Decision Number: CA20200001

State: California

Construction Types: Building, Heavy (Heavy and Dredging),
Highway and Residential

County: San Diego County in California.

BUILDING CONSTRUCTION PROJECTS; DREDGING PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); HIGHWAY CONSTRUCTION PROJECTS; RESIDENTIAL CONSTRUCTION PROJECTS (consisting of single family homes and apartments up to and including 4 stories)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/01/2021
1	01/08/2021
2	03/05/2021

ASBE0005-002 07/06/2020

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems).....	\$ 45.39	23.74
Fire Stop Technician (Application of Firestopping Materials for wall openings and penetrations in walls, floors, ceilings and curtain walls).....	\$ 28.92	18.73

ASBE0005-004 07/01/2019

	Rates	Fringes
Asbestos Removal worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)....	\$ 20.63	12.17

BOIL0092-003 03/01/2018

	Rates	Fringes
BOILERMAKER.....	\$ 44.07	33.52

BRCA0004-008 11/01/2019

	Rates	Fringes
BRICKLAYER; MARBLE SETTER.....	\$ 39.60	18.05

BRCA0018-004 06/01/2019

	Rates	Fringes
MARBLE FINISHER.....	\$ 33.43	14.11
TILE FINISHER.....	\$ 28.23	12.65
TILE LAYER.....	\$ 40.07	18.36

BRCA0018-010 09/01/2020

	Rates	Fringes
TERRAZZO FINISHER.....	\$ 33.66	14.20
TERRAZZO WORKER/SETTER.....	\$ 41.60	14.73

CARP0409-002 07/01/2016

	Rates	Fringes
Diver		
(1) Wet.....	\$ 712.48	17.03
(2) Standby.....	\$ 356.24	17.03
(3) Tender.....	\$ 348.24	17.03
(4) Assistant Tender.....	\$ 324.24	17.03

Amounts in "'Rates' column are per day

CARP0409-008 08/01/2010

	Rates	Fringes
Modular Furniture Installer.....	\$ 17.00	7.41

CARP0547-001 07/01/2018

	Rates	Fringes
CARPENTER		
(1) Bridge.....	\$ 42.34	19.17
(2) Commercial Building....	\$ 37.11	19.17
(3) Heavy & Highway.....	\$ 42.21	19.17
(4) Residential Carpenter..	\$ 29.69	19.17
(5) Residential Insulation Installer.....	\$ 18.00	8.16
MILLWRIGHT.....	\$ 42.71	19.17
PILEDRIVERMAN.....	\$ 42.34	19.17

CARP0547-002 07/01/2017

	Rates	Fringes
Drywall		
(1) Work on wood framed construction of single family residences, apartments or condominiums under four stories Drywall Installer/Lather...\$ 22.95		18.85
Drywall Stocker/Scrapper...\$ 12.50		12.27
(2) All other work Drywall Installer/Lather...\$ 32.00		17.63
Drywall Stocker/Scrapper...\$ 12.50		12.27

ELEC0569-001 06/01/2020

	Rates	Fringes
Electricians (Tunnel Work)		
Cable Splicer.....	\$ 51.38	3%+14.88
Electrician.....	\$ 50.63	3%+14.88
Electricians: (All Other Work, Including 4 Stories Residential)		
Cable Splicer.....	\$ 45.75	3%+14.88
Electrician.....	\$ 45.00	3%+14.88

ELEC0569-004 06/01/2020

	Rates	Fringes
ELECTRICIAN (Sound & Communications Sound Technician).....	\$ 33.95	13.55
SCOPE OF WORK Assembly, installation, operation, service and maintenance of components or systems as used in closed circuit television, amplified master television distribution, CATV on private property, intercommunication, burglar alarm, fire alarm, life support and all security alarms, private and public telephone and related telephone interconnect, public address, paging, audio, language, electronic, background music system less than line voltage or any system acceptable for class two wiring for private, commercial, or industrial use furnished by leased wire, frequency modulation or other recording devices, electrical apparatus by means of which electricity is applied to the amplification, transmission, transference, recording or reproduction of voice, music, sound, impulses and video. Excluded from this Scope of Work - transmission, service and maintenance of background music. All of the above shall include the installation and transmission over fiber optics.		

ELEC0569-005 06/01/2020

	Rates	Fringes
Sound & Communications Sound Technician.....	\$ 33.95	13.55
SCOPE OF WORK Assembly, installation, operation, service and maintenance of components or systems as used in closed circuit television, amplified master television distribution, CATV on private property, intercommunication, burglar alarm, fire alarm, life support and all security alarms, private and public telephone and related telephone interconnect, public address, paging, audio, language, electronic, background music system less than line voltage or any system acceptable for class two wiring for private, commercial, or industrial use furnished by leased wire, frequency modulation or other recording devices, electrical apparatus by means of which electricity is applied to the amplification, transmission, transference, recording or reproduction of voice, music, sound, impulses and video. Excluded from this Scope of Work - transmission, service and maintenance of background music. All of the above shall include the installation and transmission over fiber optics.		

SOUND TECHNICIAN: Terminating, operating and performing final check-out

ELEC0569-006 10/01/2020

Work on street lighting; traffic signals; and underground systems and/or established easements outside of buildings

	Rates	Fringes
Traffic signal, street light and underground work		
Utility Technician #1.....	\$ 33.42	3%+7.70
Utility Technician #2.....	\$ 27.85	3%+7.70

STREET LIGHT & TRAFFIC SIGNAL WORK:

UTILITY TECHNICIAN #1: Installation of street lights and traffic signals, including electrical circuitry, programmable controller, pedestal-mounted electrical meter enclosures and laying of pre-assembled cable in ducts. The layout of electrical systems and communication installation including proper position of trench depths, and radius at duct banks, location for manholes, street lights and traffic signals.

UTILITY TECHNICIAN #2: Distribution of material at jobsite, installation of underground ducts for electrical, telephone, cable TV land communication systems. The setting, leveling, grounding and racking of precast manholes, handholes and transformer pads.

ELEC0569-008 08/31/2020

	Rates	Fringes
ELECTRICIAN (Residential, 1-3 Stories).....	\$ 35.74	7.68

ELEC1245-001 06/01/2020

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer..	\$ 59.14	20.78
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment).....	\$ 47.24	19.59
(3) Groundman.....	\$ 36.12	19.19
(4) Powderman.....	\$ 51.87	18.79

HOLIDAYS: New Year's Day, M.L. King Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day and day after Thanksgiving, Christmas Day

ELEV0018-001 01/01/2021

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 59.32	35.825+a+b

FOOTNOTE:

- a. PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service.
- b. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, Friday after Thanksgiving, and Christmas Day.

ENGI0012-003 07/01/2020

	Rates	Fringes
OPERATOR: Power Equipment (All Other Work)		

GROUP 1.....	\$ 48.25	27.20
GROUP 2.....	\$ 49.03	27.20
GROUP 3.....	\$ 49.32	27.20
GROUP 4.....	\$ 50.81	27.20
GROUP 5.....	\$ 48.96	25.25
GROUP 6.....	\$ 51.03	27.20
GROUP 8.....	\$ 51.14	27.20
GROUP 9.....	\$ 49.29	25.25
GROUP 10.....	\$ 51.26	27.20
GROUP 11.....	\$ 49.41	25.25
GROUP 12.....	\$ 51.43	27.20
GROUP 13.....	\$ 51.53	27.20
GROUP 14.....	\$ 51.56	27.20
GROUP 15.....	\$ 51.64	27.20
GROUP 16.....	\$ 51.76	27.20
GROUP 17.....	\$ 51.93	27.20
GROUP 18.....	\$ 52.03	27.20
GROUP 19.....	\$ 52.14	27.20
GROUP 20.....	\$ 52.26	27.20
GROUP 21.....	\$ 52.43	27.20
GROUP 22.....	\$ 52.53	27.20
GROUP 23.....	\$ 52.64	27.20
GROUP 24.....	\$ 52.76	27.20
GROUP 25.....	\$ 52.93	27.20

OPERATOR: Power Equipment
(Cranes, Piledriving &
Hoisting)

GROUP 1.....	\$ 49.60	27.20
GROUP 2.....	\$ 50.38	27.20
GROUP 3.....	\$ 50.67	27.20
GROUP 4.....	\$ 50.81	27.20
GROUP 5.....	\$ 51.03	27.20
GROUP 6.....	\$ 51.14	27.20

	Rates	Fringes
GROUP 7.....	\$ 51.26	27.20
GROUP 8.....	\$ 51.43	27.20
GROUP 9.....	\$ 51.60	27.20
GROUP 10.....	\$ 52.60	27.20
GROUP 11.....	\$ 53.60	27.20
GROUP 12.....	\$ 54.60	27.20
GROUP 13.....	\$ 55.60	27.20
OPERATOR: Power Equipment (Tunnel Work)		
GROUP 1.....	\$ 50.10	27.20
GROUP 2.....	\$ 50.88	27.20
GROUP 3.....	\$ 51.17	27.20
GROUP 4.....	\$ 51.31	27.20
GROUP 5.....	\$ 51.53	27.20
GROUP 6.....	\$ 51.64	27.20
GROUP 7.....	\$ 51.76	27.20

PREMIUM PAY:

\$3.75 per hour shall be paid on all Power Equipment Operator work on the following Military Bases: China Lake Naval Reserve, Vandenberg AFB, Point Arguello, Seely Naval Base, Fort Irwin, Nebo Annex Marine Base, Marine Corp Logistics Base Yermo, Edwards AFB, 29 Palms Marine Base and Camp Pendleton

Workers required to suit up and work in a hazardous material environment: \$2.00 per hour additional. Combination mixer and compressor operator on gunite work shall be classified as a concrete mobile mixer operator.

SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bargeman; Brakeman; Compressor operator; Ditch Witch, with seat or similar type equipment; Elevator operator-inside; Engineer Oiler; Forklift operator (includes loed, lull or similar types under 5 tons; Generator operator; Generator, pump or compressor plant operator; Pump operator; Signalman; Switchman

GROUP 2: Asphalt-rubber plant operator (nurse tank operator); Concrete mixer operator-skip type; Conveyor operator; Fireman; Forklift operator (includes loed, lull or similar types over 5 tons; Hydrostatic pump operator; oiler crusher (asphalt or concrete plant); Petromat laydown machine; PJU side dum jack; Screening and conveyor machine operator (or similar types); Skiploader (wheel type up to 3/4 yd. without attachment); Tar pot fireman; Temporary heating plant operator; Trenching machine oiler

GROUP 3: Asphalt-rubber blend operator; Bobcat or similar type (Skid steer); Equipment greaser (rack); Ford Ferguson (with dragtype attachments); Helicopter radioman (ground); Stationary pipe wrapping and cleaning machine operator

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or similar type); Boring machine operator; Boxman or mixerman (asphalt or concrete); Chip spreading machine operator; Concrete cleaning decontamination machine operator; Concrete Pump Operator (small portable); Drilling machine operator, small auger types (Texoma super economatic or similar types - Hughes 100 or 200 or similar types - drilling depth of 30' maximum); Equipment greaser (grease truck); Guard rail post driver operator; Highline cableway signalman; Hydra-hammer-aero stomper; Micro Tunneling (above ground tunnel); Power concrete curing machine operator; Power concrete saw operator; Power-driven jumbo form setter operator; Power sweeper operator; Rock Wheel Saw/Trencher; Roller operator (compacting); Screed operator (asphalt or concrete); Trenching machine operator (up to 6 ft.); Vacuum or much truck

GROUP 5: Equipment Greaser (Grease Truck/Multi Shift).

GROUP 6: Articulating material hauler; Asphalt plant engineer; Batch plant operator; Bit sharpener; Concrete joint machine operator (canal and similar type); Concrete planer operator; Dandy digger; Deck engine operator; Derrickman (oilfield type); Drilling machine operator, bucket or auger types (Calweld 100 bucket or similar types - Watson 1000 auger or similar types - Texoma 330, 500 or 600 auger or similar types - drilling depth of 45' maximum); Drilling machine operator; Hydrographic seeder machine operator (straw, pulp or seed), Jackson track maintainer, or similar type; Kalamazoo Switch tamper, or similar type; Machine tool operator; Maginnis internal full slab vibrator, Mechanical berm, curb or gutter (concrete or asphalt); Mechanical finisher operator (concrete, Clary-Johnson-Bidwell or similar); Micro tunnel system (below ground); Pavement breaker operator (truck mounted); Road oil mixing machine operator; Roller operator (asphalt or finish), rubber-tired earth moving equipment (single engine, up to and including 25 yds. struck); Self-propelled tar pipelining machine operator; Skiploader operator (crawler and wheel type, over 3/4 yd. and up to and including 1-1/2 yds.); Slip form pump operator (power driven hydraulic lifting device for concrete forms); Tractor operator-bulldozer, tamper-scraper (single engine, up to 100 h.p. flywheel and similar types, up to and including D-5 and similar types); Tugger hoist operator (1 drum); Ultra high pressure waterjet cutting tool system operator; Vacuum blasting machine operator

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator; Backhoe operator (up to and including 3/4 yd.), small ford, Case or similar; Cast-in-place pipe laying machine operator; Combination mixer and compressor operator (gunite work); Compactor operator (self-propelled); Concrete mixer operator (paving); Crushing plant operator; Drill Doctor; Drilling machine operator, Bucket or auger types (Calweld 150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types - drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator; Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 yds. struck); Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Self-propelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 yds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bending machine operator; Trenching machine operator (over 6 ft. depth capacity, manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity): Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

GROUP 9: Heavy Duty Repairman

GROUP 10: Drilling machine operator, Bucket or auger types (Calweld 200 B bucket or similar types-Watson 3000 or 5000 auger or similar types-Texoma 900 auger or similar types-drilling depth of 105' maximum); Dual drum mixer, dynamic compactor LDC350 (or similar types); Monorail

locomotive operator (diesel, gas or electric); Motor patrol-blade operator (single engine); Multiple engine tractor operator (Euclid and similar type-except Quad 9 cat.); Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Pneumatic pipe ramming tool and similar types; Prestressed wrapping machine operator; Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Rubber tired earth moving equipment operator (multiple engine, Euclid, caterpillar and similar over 25 yds. and up to 50 yds. struck), Tower crane repairman; Tractor loader operator (crawler and wheel type over 6-1/2 yds.); Woods mixer operator (and similar Pugmill equipment)

GROUP 11: Heavy Duty Repairman - Welder Combination, Welder - Certified.

GROUP 12: Auto grader operator; Automatic slip form operator; Drilling machine operator, bucket or auger types (Calweld, auger 200 CA or similar types - Watson, auger 6000 or similar types - Hughes Super Duty, auger 200 or similar types - drilling depth of 175' maximum); Hoe ram or similar with compressor; Mass excavator operator less tha 750 cu. yards; Mechanical finishing machine operator; Mobile form traveler operator; Motor patrol operator (multi-engine); Pipe mobile machine operator; Rubber-tired earth- moving equipment operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck); Rubber-tired self- loading scraper operator (paddle-wheel-auger type self-loading - two (2) or more units)

GROUP 13: Rubber-tired earth-moving equipment operator operating equipment with push-pull system (single engine, up to and including 25 yds. struck)

GROUP 14: Canal liner operator; Canal trimmer operator; Remote- control earth-moving equipment operator (operating a second piece of equipment: \$1.00 per hour additional); Wheel excavator operator (over 750 cu. yds.)

GROUP 15: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine-up to and including 25 yds. struck)

GROUP 16: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system

(multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 17: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 50 cu. yds. struck); Tandem tractor operator (operating crawler type tractors in tandem - Quad 9 and similar type)

GROUP 18: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, up to and including 25 yds. struck)

GROUP 19: Rotex concrete belt operator (or similar types); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, up to and including 25 yds. struck)

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 21: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

GROUP 22: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, up to and including 25 yds. struck)

GROUP 23: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating with the tandem push-pull system (multiple engine, up to and including 25 yds. struck)

GROUP 24: Rubber-tired earth-moving equipment operator,

operating equipment with the tandem push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 25: Concrete pump operator-truck mounted; Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

CRANES, PILEDIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

GROUP 1: Engineer oiler; Fork lift operator (includes loed, lull or similar types)

GROUP 2: Truck crane oiler

GROUP 3: A-frame or winch truck operator; Ross carrier operator (jobsite)

GROUP 4: Bridge-type unloader and turntable operator; Helicopter hoist operator

GROUP 5: Hydraulic boom truck; Stinger crane (Austin-Western or similar type); Tugger hoist operator (1 drum)

GROUP 6: Bridge crane operator; Cretor crane operator; Hoist operator (Chicago boom and similar type); Lift mobile operator; Lift slab machine operator (Vagtborg and similar types); Material hoist and/or manlift operator; Polar gantry crane operator; Self Climbing scaffold (or similar type); Shovel, backhoe, dragline, clamshell operator (over 3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

GROUP 7: Pedestal crane operator; Shovel, backhoe, dragline, clamshell operator (over 5 cu. yds. mrc); Tower crane repair; Tugger hoist operator (3 drum)

GROUP 8: Crane operator (up to and including 25 ton capacity); Crawler transporter operator; Derrick barge operator (up to and including 25 ton capacity); Hoist operator, stiff legs, Guy derrick or similar type (up to and including 25 ton capacity); Shovel, backhoe, dragline, clamshell operator (over 7 cu. yds., M.R.C.)

GROUP 9: Crane operator (over 25 tons and up to and including 50 tons mrc); Derrick barge operator (over 25 tons up to and including 50 tons mrc); Highline cableway operator; Hoist operator, stiff legs, Guy derrick or similar type (over 25 tons up to and including 50 tons mrc); K-crane

operator; Polar crane operator; Self erecting tower crane operator maximum lifting capacity ten tons

GROUP 10: Crane operator (over 50 tons and up to and including 100 tons mrc); Derrick barge operator (over 50 tons up to and including 100 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 50 tons up to and including 100 tons mrc), Mobile tower crane operator (over 50 tons, up to and including 100 tons M.R.C.); Tower crane operator and tower gantry

GROUP 11: Crane operator (over 100 tons and up to and including 200 tons mrc); Derrick barge operator (over 100 tons up to and including 200 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 100 tons up to and including 200 tons mrc); Mobile tower crane operator (over 100 tons up to and including 200 tons mrc)

GROUP 12: Crane operator (over 200 tons up to and including 300 tons mrc); Derrick barge operator (over 200 tons up to and including 300 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 200 tons, up to and including 300 tons mrc); Mobile tower crane operator (over 200 tons, up to and including 300 tons mrc)

GROUP 13: Crane operator (over 300 tons); Derrick barge operator (over 300 tons); Helicopter pilot; Hoist operator, stiff legs, Guy derrick or similar type (over 300 tons); Mobile tower crane operator (over 300 tons)

TUNNEL CLASSIFICATIONS

GROUP 1: Skiploader (wheel type up to 3/4 yd. without attachment)

GROUP 2: Power-driven jumbo form setter operator

GROUP 3: Dinkey locomotive or motorperson (up to and including 10 tons)

GROUP 4: Bit sharpener; Equipment greaser (grease truck); Slip form pump operator (power-driven hydraulic lifting device for concrete forms); Tugger hoist operator (1 drum); Tunnel locomotive operator (over 10 and up to and including 30 tons)

GROUP 5: Backhoe operator (up to and including 3/4 yd.); Small Ford, Case or similar; Drill doctor; Grouting machine operator; Heading shield operator; Heavy-duty repairperson; Loader operator (Athey, Euclid, Sierra and similar types); Mucking machine operator (1/4 yd., rubber-tired, rail or track type); Pneumatic concrete placing machine operator

(Hackley-Presswell or similar type); Pneumatic heading shield (tunnel); Pumpcrete gun operator; Tractor compressor drill combination operator; Tugger hoist operator (2 drum); Tunnel locomotive operator (over 30 tons)

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

ENGINEERS ZONES

\$1.00 additional per hour for all of IMPERIAL County and the portions of KERN, RIVERSIDE & SAN BERNARDINO Counties as defined below:

That area within the following Boundary: Begin in San Bernardino County, approximately 3 miles NE of the intersection of I-15 and the California State line at that point which is the NW corner of Section 1, T17N, R14E, San Bernardino Meridian. Continue W in a straight line to that point which is the SW corner of the northwest quarter of Section 6, T27S, R42E, Mt. Diablo Meridian. Continue North to the intersection with the Inyo County Boundary at that point which is the NE corner of the western half of the northern quarter of Section 6, T25S, R42E, MDM. Continue W along the Inyo and San Bernardino County boundary until the intersection with Kern County, as that point which is the SE corner of Section 34, T24S, R40E, MDM. Continue W along the Inyo and Kern County boundary until the intersection with Tulare County, at that point which is the SW corner of the SE quarter of Section 32, T24S, R37E, MDM. Continue W along the Kern and Tulare County boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM. Continue S to SW corner of T11N, R17W, SBM. Continue E along south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SMB to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1S, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state line. Follow the California state line west to Arizona state line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1,

T17N, R14E, SBM

\$1.00 additional per hour for portions of SAN LUIS OBISPO, KERN, SANTA BARBARA & VENTURA as defined below:

That area within the following Boundary: Begin approximately 5 miles north of the community of Cholame, on the Monterey County and San Luis Obispo County boundary at the NW corner of T25S, R16E, Mt. Diablo Meridian. Continue south along the west side of R16E to the SW corner of T30S, R16E, MDM. Continue E to SW corner of T30S, R17E, MDM. Continue S to SW corner of T31S, R17E, MDM. Continue E to SW corner of T31S, R18E, MDM. Continue S along West side of R18E, MDM as it crosses into San Bernardino Meridian numbering area and becomes R30W. Follow the west side of R30W, SBM to the SW corner of T9N, R30W, SBM. Continue E along the south edge of T9N, SBM to the Santa Barbara County and Ventura County boundary at that point which is the SW corner of Section 34. T9N, R24W, SBM, continue S along the Ventura County line to that point which is the SW corner of the SE quarter of Section 32, T7N, R24W, SBM. Continue E along the south edge of T7N, SBM to the SE corner to T7N, R21W, SBM. Continue N along East side of R21W, SBM to Ventura County and Kern County boundary at the NE corner of T8N, R21W. Continue W along the Ventura County and Kern County boundary to the SE corner of T9N, R21W. Continue North along the East edge of R21W, SBM to the NE corner of T12N, R21W, SBM. Continue West along the north edge of T12N, SBM to the SE corner of T32S, R21E, MDM. [T12N SBM is a thin strip between T11N SBM and T32S MDM]. Continue North along the East side of R21E, MDM to the Kings County and Kern County border at the NE corner of T25S, R21E, MDM, continue West along the Kings County and Kern County Boundary until the intersection of San Luis Obispo County. Continue west along the Kings County and San Luis Obispo County boundary until the intersection with Monterey County. Continue West along the Monterey County and San Luis Obispo County boundary to the beginning point at the NW corner of T25S, R16E, MDM.

\$2.00 additional per hour for INYO and MONO Counties and the Northern portion of SAN BERNARDINO County as defined below:

That area within the following Boundary: Begin at the intersection of the northern boundary of Mono County and the California state line at the point which is the center of Section 17, T10N, R22E, Mt. Diablo Meridian. Continue S then SE along the entire western boundary of Mono County, until it reaches Inyo County at the point which is the NE corner of the Western half of the NW quarter of Section 2, T8S, R29E, MDM. Continue SSE along the entire western boundary of Inyo County, until the intersection with Kern County at the point which is the SW corner of the SE 1/4 of Section 32, T24S, R37E, MDM. Continue E along the Inyo and Kern County boundary until the

intersection with San Bernardino County at that point which is the SE corner of section 34, T24S, R40E, MDM. Continue E along the Inyo and San Bernardino County boundary until the point which is the NE corner of the Western half of the NW quarter of Section 6, T25S, R42E, MDM. Continue S to that point which is the SW corner of the NW quarter of Section 6, T27S, R42E, MDM. Continue E in a straight line to the California and Nevada state border at the point which is the NW corner of Section 1, T17N, R14E, San Bernardino Meridian. Then continue NW along the state line to the starting point, which is the center of Section 18, T10N, R22E, MDM.

REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

 ENGI0012-004 08/01/2020

	Rates	Fringes
OPERATOR: Power Equipment		
(DREDGING)		
(1) Leverman.....	\$ 56.40	30.00
(2) Dredge dozer.....	\$ 50.43	30.00
(3) Deckmate.....	\$ 50.32	30.00
(4) Winch operator (stern winch on dredge).....	\$ 49.77	30.00
(5) Fireman-Oiler, Deckhand, Bargeman, Leveehand.....	\$ 49.23	30.00
(6) Barge Mate.....	\$ 49.84	30.00

 IRON0433-006 07/01/2020

	Rates	Fringes
IRONWORKER		
Fence Erector.....	\$ 34.58	24.81
Ornamental, Reinforcing and Structural.....	\$ 41.00	33.45

PREMIUM PAY:

\$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland, Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

\$4.00 additional per hour at the following locations:
 Army Defense Language Institute - Monterey, Fallon Air Base,

Naval Post Graduate School - Monterey, Yermo Marine Corps
Logistics Center

\$2.00 additional per hour at the following locations:

Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock

LABO0089-001 07/01/2020

	Rates	Fringes
LABORER (BUILDING and all other Residential Construction)		
Group 1.....	\$ 34.18	20.48
Group 2.....	\$ 34.86	20.48
Group 3.....	\$ 35.57	20.48
Group 4.....	\$ 36.37	20.48
Group 5.....	\$ 38.30	20.48
LABORER (RESIDENTIAL CONSTRUCTION - See definition below)		
(1) Laborer.....	\$ 30.82	18.80
(2) Cleanup, Landscape, Fencing (Chain Link & Wood).	\$ 29.53	18.80

RESIDENTIAL DEFINITION: Wood or metal frame construction of single family residences, apartments and condominiums - excluding (a) projects that exceed three stories over a garage level, (b) any utility work such as telephone, gas, water, sewer and other utilities and (c) any fine grading work, utility work or paving work in the future street and public right-of-way; but including all rough grading work at the job site behind the existing right of way

LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete Screeding for Rought Strike-off; Concrete, water curing; Demolition laborer; Flagman; Gas, oil and/or water pipeline laborer; General Laborer; General clean-up laborer; Landscape laborer; Jetting laborer; Temporary water and air lines laborer; Material hoseman (walls, slabs, floors and decks); Plugging, filling of Shee-bolt holes; Dry packing of concrete; Railroad maintenance, Repair Trackman and road beds, Streetcar and railroad construction trac laborers; Slip form raisers; Slurry seal crews (mixer operator, applicator operator, squeegee man, Shuttle man, top man), filling of cracks by any method on any surface; Tarman and mortar man; Tool crib or tool house laborer; Window cleaner; Wire Mesh puling-all concrete pouring operations

GROUP 2: Asphalt Shoveler; Cement Dumper (on 1 yard or larger mixer and handling bulk cement); Cesspool digger and installer; Chucktender; Chute man, pouring concrete, the handling of the chute from ready mix trucks, such as walls, slabs, decks, floors, foundations, footings, curbs, gutters and sidewalks; Concrete curer-impervious membrane and form oiler; Cutting torch operator (demolition); Guinea chaser; Headboard man-asphalt; Laborer, packing rod steel and pans; membrane vapor barrier installer; Power broom sweepers (small); Rii-prap, stonepaver, placing stone or wet sacked concrete; Roto scraper and tiller; Tank sealer and cleaner; Tree climber, faller, chain saw operator, Pittsburgh Chipper and similar type brush shredders; Underground laborers, including caisson bellower

GROUP 3: Buggymobile; Concrete cutting torch; Concrete cutting torch; Concrete pile cutter; Driller, jackhammer, 2 1/2 feet drill steel or longer; Dri Pak-it machine; High sealer (including drilling of same); Hydro seeder and similar type; Impact wrench, multi-plate; Kettlemen, potmen and men applying asphalt, lay-kold, creosote, line caustic and similar type materials (applying means applying, dipping, brushing or handling of such materials for pipe wrapping and waterproofing); Operators of pneumatic, gas, electric tools, vibrating machines, pavement breakers, air blasting, come-along, and similar mechanical tools not separately classified herein; Pipelayers back up man coating, grouting, making of joints, sealing, caulking, diapering and including rubber gasket joints, pointing and any and all other services; Rotary Scarifier or multiple head concrete chipping scarifier; Steel header board man and guideline setter; Tampers, Barko, Wacker and similar type; Trenching machine, handpropelled

GROUP 4: Asphalt raker, luterman, ironer, asphalt dumpman and asphalt spreader boxes (all types); Concrete core cutter (walls, floors or ceilings), Grinder or sander; Concrete saw man; cutting walls or flat work, scoring old or new concrete; Cribber, shorer, lagging, sheeting and trench bracing, hand-guided lagging hammer; Laser beam in connection with laborer's work; Oversize concrete vibrator operator 70 pounds and over; Pipelayer performing all services in the laying, installation and all forms of connection of pipe from the point of receiving pipe in the ditch until completion of operation, including any and all forms of tubular material, whether pipe, metallic or non-metallic, conduit, and any other stationary type of tubular device used for the conveying of any substance or element, whether water, sewage, solid, gas, air or other product whatsoever and without regard to the nature of material from which the tubular material is fabricated; No

joint pipe and stripping of same; Prefabricated manhole installer; Sandblaster (nozzleman), Porta shot-blast, water blasting

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Driller-all power drills, excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and any and all other types of mechanical drills without regard to the form of motive power.

LABO0089-002 11/01/2020

	Rates	Fringes
LABORER (MASON TENDER).....	\$ 33.00	19.23

LABO0089-004 07/01/2020

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
Laborers:		
Group 1.....	\$ 35.30	20.48
Group 2.....	\$ 35.76	20.48
Group 3.....	\$ 36.17	20.48
Group 4.....	\$ 37.01	20.48
Group 5.....	\$ 40.28	20.48

LABORER CLASSIFICATIONS

GROUP 1: Laborer: General or Construction Laborer, Landscape Laborer. Asphalt Rubber Material Loader. Boring Machine Tender (outside), Carpenter Laborer (cleaning, handling, oiling & blowing of panel forms and lumber), Concrete Laborer, Concrete Screeding for rough strike-off, Concrete water curing. Concrete Curb & Gutter laborer, Certified Confined Space Laborer, Demolition laborer & Cleaning of Brick and lumber, Expansion Joint Caulking; Environmental Remediation, Monitoring Well, Toxic waste and Geotechnical Drill tender, Fine Grader, Fire Watcher, Limbers, Brush Loader, Pilers and Debris Handlers. flagman. Gas Oil and Water Pipeline Laborer. Material Hoseman (slabs, walls, floors, decks); Plugging, filling of shee bolt holes; Dry packing of concrete and patching; Post Holer Digger (manual); Railroad maintenance, repair trackman, road beds; Rigging & signaling; Scaler, Slip-Form Raisers, Filling cracks on any surface, tool Crib or Tool House Laborer, Traffic control (signs, barriers, barricades, delineator, cones etc.), Window Cleaner

GROUP 2: Asphalt abatement; Buggymobile; Cement dumper (on 1 yd. or larger mixers and handling bulk cement); Concrete curer, impervious membrane and form oiler; Chute man, pouring concrete; Concrete cutting torch; Concrete pile cutter; driller/Jackhammer, with drill steel 2 1/2 feet or longer; Dry pak-it machine; Fence erector; Pipeline wrapper, gas, oil, water, pot tender & form man; Grout man; Installation of all asphalt overlay fabric and materials used for reinforcing asphalt; Irrigation laborer; Kettleman-Potman hot mop, includes applying asphalt, lay-klold, creosote, lime caustic and similar tyhpes of materials (dipping, brushing, handling) and waterproofing; Membrane vapor barrier installer; Pipelayer backup man (coating, grouting, making of joints, sealing caulkiing, diapering including rubber basket joints, pointing); Rotary scarifier, multiple head concrete chipper; Rock slinger; Roto scraper & tiller; Sandblaster pot tender; Septic tank digger/installer; Tamper/wacker operator; Tank scaler & cleaner; Tar man & mortar man; Tree climber/faller, chainb saw operator, Pittsburgh chipper & similar type brush shredders.

GROUP 3: Asphalt, installation of all frabrics; Buggy Mobile Man, Bushing hammer; Compactor (all types), Concrete Curer - Impervious membrane, Form Oiler, Concrete Cutting Torch, Concrete Pile Cutter, Driller/Jackhammer with drill steel 2 1/2 ft or longer, Dry Pak-it machine, Fence erector including manual post hole digging, Gas oil or water Pipeline Wrapper - 6 ft pipe and over, Guradrail erector, Hydro seeder, Impact Wrench man (multi plate), kettleman-Potman Hot Mop includes applying Asphalt, Lay-Kold, Creosote, lime caustic and similar types of materials (dipping, brushing or handling) and waterproofing. Laser Beam in connection with Laborer work. High Scaler, Operators of Pneumatic Gas or Electric Tools, Vibrating Machines, Pavement Breakers, Air Blasting, Come-Alongs and similar mechanical tools, Remote-Controlled Robotic Tools in connection with Laborers work. Pipelayer Backup Man (Coating, grouting, m makeing of joints, sealing, caulking, diapering including rubber gasket joints, pointing and other services). Power Post Hole Digger, Rotary Scarifier (multiple head concrete chipper scarifier), Rock Slinger, Shot Blast equipment (8 to 48 inches), Steel Headerboard Man and Guideline Setter, Tamper/Wacker operator and similar types, Trenching Machine hand propelled.

GROUP 4: Any worker exposed to raw sewage. Asphalt Raker, Luteman, Asphalt Dumpman, Asphalt Spreader Boxes, Concrete Core Cutter, Concrete Saw Man, Cribber, Shorer, Head Rock Slinger. Installation of subsurface instrumentation, monitoring wells or points, remediation system installer;

Laborer, asphalt-rubber distributor bootman; Oversize concrete vibrator operators, 70 pounds or over. Pipelayer, Prefabricated Manhole Installer, Sandblast Nozzleman (Water Blasting-Porta Shot Blast), Traffic Lane Closure.

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Horizontal directional driller, Boring system, Electronic tracking, Driller: all power drills excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and all other types of mechanical drills without regard to form of motive power. Environmental remediation, Monitoring well, Toxic waste and Geotechnical driller, Toxic waste removal. Welding in connection with Laborer's work.

 * LABO0300-005 03/01/2021

	Rates	Fringes
Asbestos Removal Laborer.....	\$ 37.49	21.88

SCOPE OF WORK: Includes site mobilization, initial site cleanup, site preparation, removal of asbestos-containing material and toxic waste, encapsulation, enclosure and disposal of asbestos- containing materials and toxic waste by hand or with equipment or machinery; scaffolding, fabrication of temporary wooden barriers and assembly of decontamination stations.

 LABO0345-001 07/01/2020

	Rates	Fringes
LABORER (GUNITE)		
GROUP 1.....	\$ 45.05	19.62
GROUP 2.....	\$ 44.10	19.62
GROUP 3.....	\$ 40.56	19.62

FOOTNOTE: GUNITE PREMIUM PAY: Workers working from a Bosn'n's Chair or suspended from a rope or cable shall receive 40 cents per hour above the foregoing applicable classification rates. Workers doing gunite and/or shotcrete work in a tunnel shall receive 35 cents per hour above the foregoing applicable classification rates, paid on a portal-to-portal basis. Any work performed on, in or above any smoke stack, silo, storage elevator or similar type of structure, when such structure is in excess of 75'-0"" above base level and which work must be performed in whole or in part more than 75'-0"" above base level, that work performed above the 75'-0"" level shall be compensated

for at 35 cents per hour above the applicable classification wage rate.

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Rodmen, Nozzlemen

GROUP 2: Gunmen

GROUP 3: Reboundmen

LABO1184-001 07/01/2020

	Rates	Fringes
Laborers: (HORIZONTAL DIRECTIONAL DRILLING)		
(1) Drilling Crew Laborer...	\$ 37.85	15.99
(2) Vehicle Operator/Hauler.	\$ 38.02	15.99
(3) Horizontal Directional Drill Operator.....	\$ 39.87	15.99
(4) Electronic Tracking Locator.....	\$ 41.87	15.99
Laborers: (STRIPING/SLURRY SEAL)		
GROUP 1.....	\$ 39.06	19.01
GROUP 2.....	\$ 40.36	19.01
GROUP 3.....	\$ 42.37	19.01
GROUP 4.....	\$ 44.11	19.01

LABORERS - STRIPING CLASSIFICATIONS

GROUP 1: Protective coating, pavement sealing, including repair and filling of cracks by any method on any surface in parking lots, game courts and playgrounds; carstops; operation of all related machinery and equipment; equipment repair technician

GROUP 2: Traffic surface abrasive blaster; pot tender - removal of all traffic lines and markings by any method (sandblasting, waterblasting, grinding, etc.) and preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

GROUP 3: Traffic delineating device applicator: Layout and application of pavement markers, delineating signs, rumble and traffic bars, adhesives, guide markers, other traffic delineating devices including traffic control. This category includes all traffic related surface preparation (sandblasting, waterblasting, grinding) as part of the

application process. Traffic protective delineating system installer: removes, relocates, installs, permanently affixed roadside and parking delineation barricades, fencing, cable anchor, guard rail, reference signs, monument markers; operation of all related machinery and equipment; power broom sweeper

GROUP 4: Striper: layout and application of traffic stripes and markings; hot thermo plastic; tape traffic stripes and markings, including traffic control; operation of all related machinery and equipment

LABO1414-003 08/05/2020

	Rates	Fringes
LABORER		
PLASTER CLEAN-UP LABORER....	\$ 36.03	21.01
PLASTER TENDER.....	\$ 38.58	21.01

Work on a swing stage scaffold: \$1.00 per hour additional.

Work at Military Bases - \$3.00 additional per hour:
 Coronado Naval Amphibious Base, Fort Irwin, Marine Corps Air Station-29 Palms, Imperial Beach Naval Air Station, Marine Corps Logistics Supply Base, Marine Corps Pickle Meadows, Mountain Warfare Training Center, Naval Air Facility-Seeley, North Island Naval Air Station, Vandenberg AFB.

PAIN0036-001 07/01/2020

	Rates	Fringes
Painters: (Including Lead Abatement)		
(1) Repaint (excludes San Diego County).....	\$ 29.59	17.12
(2) All Other Work.....	\$ 33.12	17.24

REPAINT of any previously painted structure. Exceptions: work involving the aerospace industry, breweries, commercial recreational facilities, hotels which operate commercial establishments as part of hotel service, and sports facilities.

PAIN0036-010 10/01/2020

	Rates	Fringes
DRYWALL FINISHER/TAPER		
(1) Building & Heavy		

	Rates	Fringes
Construction.....	\$ 36.69	18.90
(2) Residential Construction (Wood frame apartments, single family homes and multi-duplexes up to and including four stories).....	\$ 27.11	17.51

PAIN0036-012 10/01/2020

	Rates	Fringes
GLAZIER.....	\$ 45.55	18.06

* PAIN0036-019 01/01/2021

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 33.52	17.59

PLAS0200-005 08/07/2019

	Rates	Fringes
PLASTERER.....	\$ 43.73	16.03

NORTH ISLAND NAVAL AIR STATION, COLORADO NAVAL AMPHIBIOUS
BASE, IMPERIAL BEACH NAVAL AIR STATION: \$3.00 additional
per hour.

PLAS0500-001 07/01/2018

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
GROUP 1.....	\$ 26.34	21.12
GROUP 2.....	\$ 27.99	21.12
GROUP 3.....	\$ 30.07	21.12

CEMENT MASONS - work inside the building line, meeting the
following criteria:

GROUP 1: Residential wood frame project of any size; work
classified as Type III, IV or Type V construction;
interior tenant improvement work regardless the size of the
project; any wood frame project of four stories or less.

GROUP 2: Work classified as type I and II construction

GROUP 3: All other work

PLUM0016-006 09/01/2020

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER		
Camp Pendleton; Vandenberg Air Force Base.....	\$ 55.88	23.66
Work ONLY on new additions and remodeling of commercial buildings, bars, restaurants, and stores not to exceed 5,000 sq. ft. of floor space.....	\$ 50.70	23.73
Work ONLY on strip malls, light commercial, tenant improvement and remodel work.....	\$ 38.73	22.06
All other work except work on new additions and remodeling of bars, restaurant, stores and commercial buildings not to exceed 5,000 sq. ft. of floor space and work on strip malls, light commercial, tenant improvement and remodel work.....	\$ 52.28	24.71

PLUM0016-011 09/01/2020

	Rates	Fringes
PLUMBER/PIPEFITTER		
Residential.....	\$ 41.62	20.63

PLUM0345-001 09/01/2020

	Rates	Fringes
PLUMBER		
Landscape/Irrigation Fitter..	\$ 35.30	24.10
Sewer & Storm Drain Work....	\$ 39.39	21.48

ROOF0045-001 07/01/2020

	Rates	Fringes
ROOFER.....	\$ 36.25	9.24

SFCA0669-001 01/01/2021

	Rates	Fringes
SPRINKLER FITTER.....	\$ 41.57	24.62

	Rates	Fringes
SHEET METAL WORKER		
Camp Pendleton.....	\$ 42.62	29.55
Except Camp Pendleton.....	\$ 40.62	29.55
Sheet Metal Technician.....	\$ 30.51	9.49

SHEET METAL TECHNICIAN - SCOPE:

a. Existing residential buildings, both single and multi-family, where each unit is heated and/or cooled by a separate system b. New single family residential buildings including tracts. c. New multi-family residential buildings, not exceeding five stories of living space in height, provided each unit is heated or cooled by a separate system. Hotels and motels are excluded. d. LIGHT COMMERCIAL WORK: Any sheet metal, heating and air conditioning work performed on a project where the total construction cost, excluding land, is under \$1,000,000 e. TENANT IMPROVEMENT WORK: Any work necessary to finish interior spaces to conform to the occupants of commercial buildings, after completion of the building shell

TEAM0166-001 09/01/2019

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 18.90	34.69
GROUP 2.....	\$ 26.49	34.69
GROUP 3.....	\$ 26.69	34.69
GROUP 4.....	\$ 26.89	34.69
GROUP 5.....	\$ 27.09	34.69
GROUP 6.....	\$ 27.59	34.69
GROUP 7.....	\$ 29.09	34.69

FOOTNOTE: HAZMAT PAY: Work on a hazmat job, where hazmat certification is required, shall be paid, in addition to the classification working in, as follows: Levels A, B and C - +\$1.00 per hour. Workers shall be paid hazmat pay in increments of four (4) and eight (8) hours.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Fuel Man, Swamper

GROUP 2: 2-axle Dump Truck, 2-axle Flat Bed, Concrete Pumping Truck, Industrial Lift Truck, Motorized Traffic Control, Pickup Truck on Jobsite

GROUP 3: 2-axle Water Truck, 3-axle Dump Truck, 3-axle Flat Bed, Erosion Control Nozzleman, Dump Crete Truck under 6.5 yd, Forklift 15,000 lbs and over, Prell Truck, Pipeline

Work Truck Driver, Road Oil Spreader, Cement Distributor or Slurry Driver, Bootman, Ross Carrier

GROUP 4: Off-road Dump Truck under 35 tons 4-axles but less than 7-axles, Low-Bed Truck & Trailer, Transit Mix Trucks under 8 yd, 3-axle Water Truck, Erosion Control Driver, Grout Mixer Truck, Dump Crete 6.5yd and over, Dumpster Trucks, DW 10, DW 20 and over, Fuel Truck and Dynamite, Truck Greaser, Truck Mounted Mobile Sweeper 2-axle Winch Truck

GROUP 5: Off-road Dump Truck 35 tons and over, 7-axles or more, Transit Mix Trucks 8 yd and over, A-Frame Truck, Swedish Cranes

GROUP 6: Off-Road Special Equipment (including but not limited to Water Pull Tankers, Athey Wagons, DJB, B70 Wuclids or like Equipment)

GROUP 7: Repairman

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular

rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

Bid Results

Bidder Details

Vendor Name Kiewit Infrastructure West Co.
Address 3555 Farnam Street
Omaha, Nebraska 68131
United States
Respondee Terrence L. Robinson
Respondee Title Senior Vice President
Phone 562-946-1816
Email terry.robinson@kiewit.com
Vendor Type PQUAL, CADIR
License # 433176
CADIR 1000001147

Bid Detail

Bid Format Electronic
Submitted 03/19/2021 1:54 PM (PDT)
Delivery Method
Bid Responsive
Bid Status Submitted
Confirmation # 246881
Ranking 0

Respondee Comment

Bid Proposal for Kiewit Infrastructure West Co.

Buyer Comment

Bond

eBond Contract ID

Attachments

File Title

Form 4500-4.pdf

Form 4500-3.pdf

Contractors_Certification_of_Pending_Actions.pdf

Binder1.pdf

Commitment_Skilled_Workforce_Cert.pdf

Disclosure_Lobbying_Activities.pdf

Mandatory_Disclosures_of_Business_Interests.pdf

Debarment_Certification_Prime Contractor.pdf

Bid_Bond.pdf

File Name

Form 4500-4.pdf

Form 4500-3.pdf

Contractors_Certification_of_Pending_Actions.pdf

Binder1.pdf

Commitment_Skilled_Workforce_Cert.pdf

Disclosure_Lobbying_Activities.pdf

Mandatory_Disclosures_of_Business_Interests.pdf

Debarment_Certification_Prime Contractor.pdf

Bid_Bond.pdf

File Type

General Attachments

General Attachments

General Attachments

General Attachments

General Attachments

General Attachments

General Attachments

General Attachments

Bid Bond

Subcontractors

Showing 4 of undefined Subcontractors

Name & Address	Desc	License Num	CADIR	Amount	Type
*Harris Rebar 12751 Vigilante Rd. Lakeside, California 92040	Rebar	921179	1000007035	\$8,067,152.00	
Marina Landscape Inc. 3707 W Garden Grove Blvd Orange, California 92868	Landscaping	492862	1000000079	\$1,802,687.00	CAU, MALE, CADIR, PQUAL
Mass Electric Construction Co 1925 Wright Ave Suite C La Verne, California 91750	Electrical / I&C	819912	1000001289	\$16,291,000.00	CADIR
Techno Coatings, Inc. 1391 S. Allec St. Anaheim, California 92805	Painting and Coating	296517	1000005841	\$2,676,457.00	

Line Items

Item #	Item Code	Section	Type	Item Description	UOM	QTY	Unit Price	Line Total	Response	Comment
1	237110	Main Bid		BONDS (PAYMENT AND PERFORMANCE NOT TO EXCEED 2.5%)	LS	1	\$1,000,000.00	\$1,000,000.00	Yes	
2	237110	Main Bid		MOBILIZATION	LS	1	\$5,000,000.00	\$5,000,000.00	Yes	
3	237110	Main Bid		DISPUTE RESOLUTION BOARD (EOC TYPE I)	AL	1	\$54,000.00	\$54,000.00	Yes	
4	237110	Main Bid (Package 2)		SHEETING, SHORING, AND BRACING	LS	1	\$1,600,000.00	\$1,600,000.00	Yes	
5	238910	Main Bid (Package 2)		SITE CIVIL GRADING	LS	1	\$4,200,000.00	\$4,200,000.00	Yes	
6	237110	Main Bid (Package 2)		YARD PIPING	LS	1	\$2,000,000.00	\$2,000,000.00	Yes	
7	237110	Main Bid (Package 2)		INFLUENT PUMP STATION FACILITY 01	LS	1	\$2,455,000.00	\$2,455,000.00	Yes	
8	237110	Main Bid (Package 2)		HEADWORKS FACILITY 05	LS	1	\$5,090,000.00	\$5,090,000.00	Yes	
9	237110	Main Bid (Package 2)		GRIT FACILITY 10	LS	1	\$1,500,000.00	\$1,500,000.00	Yes	
10	237110	Main Bid (Package 2)		PRIMARY TREATMENT FACILITY 10	LS	1	\$21,950,000.00	\$21,950,000.00	Yes	
11	237110	Main Bid (Package 2)		INTERMEDIATE PUMPING STATION FACILITY 11	LS	1	\$1,500,000.00	\$1,500,000.00	Yes	
12	237110	Main Bid (Package 2)		FIRST STAGE BIOREACTOR BASINS FACILITY 15	LS	1	\$43,452,000.00	\$43,452,000.00	Yes	
13	237110	Main Bid (Package 2)		SECOND STAGE BIOREACTOR BASINS FACILITY 16	LS	1	\$43,630,000.00	\$43,630,000.00	Yes	
14	237110	Main Bid (Package 2)		PROCESS AERATION BLOWERS	LS	1	\$3,900,000.00	\$3,900,000.00	Yes	
15	237110	Main Bid (Package 2)		SECONDARY CLARIFIERS AND RAS PUMPING FACILITY 23 AND ELECTRICAL BUILDING FACILITY 70	LS	1	\$37,742,000.00	\$37,742,000.00	Yes	
16	237110	Main Bid (Package 2)		BLENDED SLUDGE PUMP STATION FACILITY 45	LS	1	\$2,455,000.00	\$2,455,000.00	Yes	
17	237110	Main Bid (Package 2)		TERTIARY FILTERS FACILITY 25	LS	1	\$8,471,000.00	\$8,471,000.00	Yes	
18	237110	Main Bid (Package 2)		CHLORINE CONTACT BASIN FACILITY 30	LS	1	\$3,600,000.00	\$3,600,000.00	Yes	
19	237110	Main Bid (Package 2)		CHEMICAL FACILITY 55	LS	1	\$2,450,000.00	\$2,450,000.00	Yes	
20	237110	Main Bid (Package 2)		CARBON CHEMICAL FACILITY 58	LS	1	\$2,512,000.00	\$2,512,000.00	Yes	
21	237110	Main Bid (Package 2)		EFFLUENT PUMP STATION FACILITY 34	LS	1	\$3,600,000.00	\$3,600,000.00	Yes	
22	237110	Main Bid (Package 2)		SUBSTATION REPLACEMENT AND SITE ELECTRICAL	LS	1	\$9,000,000.00	\$9,000,000.00	Yes	
23	237110	Main Bid (Package 2)		STORM WATER POLLUTION PREVENTION PLAN (SWPPP) – IMPLEMENTATION	LS	1	\$145,000.00	\$145,000.00	Yes	
24	541330	Main Bid (Package 2)		STORM WATER POLLUTION PREVENTION PLAN (SWPPP) – PERMIT FEE (EOC TYPE I)	AL	1	\$6,000.00	\$6,000.00	Yes	
25	561730	Main Bid (Package 2)		BIORETENTION BASINS AND APPURTENANCES	LS	1	\$1,000,000.00	\$1,000,000.00	Yes	
26	237110	Main Bid (Package 2)		CONTROLS, SYSTEM INTEGRATION	LS	1	\$2,600,000.00	\$2,600,000.00	Yes	
27	237110	Main Bid (Package 2)		FIELD ORDERS (EOC TYPE II)	AL	1	\$8,515,000.00	\$8,515,000.00	Yes	
28	237110	Main Bid (Package 2)		INTEGRATION PERIOD SERVICES (EOC TYPE I)	AL	1	\$1,620,000.00	\$1,620,000.00	Yes	
29	237110	Main Bid (Package 2)		LANDSCAPING	LS	1	\$4,300,000.00	\$4,300,000.00	Yes	
30	237110	Main Bid (Package 3: NCPWF INFLUENT PUMP STATION)		SHEETING, SHORING, AND BRACING	LS	1	\$100,000.00	\$100,000.00	Yes	
31	237110	Main Bid (Package 3: NCPWF INFLUENT PUMP STATION)		NCPWF INFLUENT PUMP STATION FACILITY 36	LS	1	\$8,260,000.00	\$8,260,000.00	Yes	
32	561730	Main Bid (Package 3: NCPWF INFLUENT PUMP STATION)		CONTROLS, SYSTEM INTEGRATION	LS	1	\$10,000,000.00	\$10,000,000.00	Yes	

33	2371 10	Main Bid (Package 3: NCPWF INFLUENT PUMP STATION)	FIELD ORDERS (EOC TYPE II)	AL	1	\$485,000.00	\$485,000.00	Yes	
34	2371 10	Main Bid (Package 3: NCPWF INFLUENT PUMP STATION)	INTEGRATION PERIOD SERVICES (EOC TYPE I)	AL	1	\$229,000.00	\$229,000.00	Yes	
35	2371 10	Main Bid (Package 3: NCPWF INFLUENT PUMP STATION AND CONVEYANCE ANCILLARY FACILITIES)	SHEETING, SHORING, AND BRACING	LS	1	\$100,000.00	\$100,000.00	Yes	
36	2371 10	Main Bid (Package 3: NCPWF INFLUENT PUMP STATION AND CONVEYANCE ANCILLARY FACILITIES)	SITE CIVIL GRADING	LS	1	\$2,800,000.00	\$2,800,000.00	Yes	
37	2371 10	Main Bid (Package 3: NCPWF INFLUENT PUMP STATION AND CONVEYANCE ANCILLARY FACILITIES)	CONVEYANCE AND YARD PIPING	LS	1	\$2,000,000.00	\$2,000,000.00	Yes	
38	2371 10	Main Bid (Package 3: NCPWF INFLUENT PUMP STATION AND CONVEYANCE ANCILLARY FACILITIES)	SITE ELECTRICAL	LS	1	\$4,000,000.00	\$4,000,000.00	Yes	
39	2371 10	Main Bid (Package 3: NCPWF INFLUENT PUMP STATION AND CONVEYANCE ANCILLARY FACILITIES)	STORM WATER POLLUTION PREVENTION PLAN (SWPPP) – IMPLEMENTATION	LS	1	\$97,000.00	\$97,000.00	Yes	
40	5413 30	Main Bid (Package 3: NCPWF INFLUENT PUMP STATION AND CONVEYANCE ANCILLARY FACILITIES)	STORM WATER POLLUTION PREVENTION PLAN (SWPPP) – PERMIT FEE (EOC TYPE I)	AL	1	\$6,000.00	\$6,000.00	Yes	
41	2371 10	Main Bid (Package 3: NCPWF INFLUENT PUMP STATION AND CONVEYANCE ANCILLARY FACILITIES)	BIORETENTION BASINS AND APPURTENANCES	LS	1	\$1,000,000.00	\$1,000,000.00	Yes	
42	2371 10	Main Bid (Package 3: NCPWF INFLUENT PUMP STATION AND CONVEYANCE ANCILLARY FACILITIES)	FIELD ORDERS (EOC TYPE II)	AL	1	\$485,000.00	\$485,000.00	Yes	
43	2371 10	Main Bid (Package 3: NCPWF INFLUENT PUMP STATION AND CONVEYANCE ANCILLARY FACILITIES)	INTEGRATION PERIOD SERVICES (EOC TYPE I)	AL	1	\$229,000.00	\$229,000.00	Yes	

Line Item Subtotals

Section Title	Line Total
Main Bid	\$6,054,000.00
Main Bid (Package 2)	\$219,293,000.00
Main Bid (Package 3: NCPWF INFLUENT PUMP STATION)	\$19,074,000.00
Main Bid (Package 3: NCPWF INFLUENT PUMP STATION AND CONVEYANCE ANCILLARY FACILITIES)	\$10,717,000.00
Grand Total	\$255,138,000.00



**Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company**

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint Philip G. Dehn, Tammy Pike, Paul A. Foss, Marie Huggins, Traci Sutton, and Deanne Jones of Omaha, Nebraska their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this 3rd day of February, 2017.



State of Connecticut

City of Hartford ss.

By:
Robert L. Raney, Senior Vice President

On this the 3rd day of February, 2017, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.

My Commission expires the 30th day of June, 2021



Marie C. Tetreault
Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 10th day of March, 2021



Kevin E. Hughes
Kevin E. Hughes, Assistant Secretary

**To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which the power is attached.**

NOTARY ACKNOWLEDGMENT

STATE OF NEBRASKA

COUNTY OF DOUGLAS

I, Deanne Jones, a Notary Public in and for said County and State, do hereby certify that Traci Sutton, Attorney-in-Fact of Travelers Casualty and Surety Company of America, proved to me on the basis of satisfactory evidence to be the person who appeared before me, and acknowledged that she signed, sealed and delivered a said instrument, for and on behalf of Travelers Casualty and Surety Company of America for the uses and purposes therein set forth.

Given under my hand and notarial seal, the 10th day of

March, 2021.



Deanne Jones
Deanne Jones, Notary Public

CALIFORNIA ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }
County of Los Angeles }

On March 19, 2021 before me, Rozita Ah Kiong, Notary Public,
Date Here Insert Name and Title of the Officer
personally appeared Terrence L. Robinson, Senior Vice President
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature *Rozita Ah Kiong*
Signature of Notary Public

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Bid Bond

Document Date: March 10, 2021 Number of Pages: 1

Signer(s) Other Than Named Above: No other signer(s)

Capacity(ies) Claimed by Signer(s)

Signer's Name: Terrence L. Robinson

Corporate Officer – Title(s): Senior Vice President

Partner – Limited General

Individual Attorney in Fact

Trustee Guardian of Conservator

Other: _____

Signer is Representing: Kiewit Infrastructure West Co.

Signer's Name: _____

Corporate Officer – Title(s): _____

Partner – Limited General

Individual Attorney in Fact

Trustee Guardian of Conservator

Other: _____

Signer is Representing: _____

PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

Kiewit Infrastructure West, Co. a corporation as principal and

Travelers Casualty and Surety Company of America, a corporation authorized to do business in the State of California, as Surety, hereby obligate themselves, their successors and assigns, jointly and severally, to The City of San Diego a municipal corporation in the sum of **Two Hundred Fifty Five Million One Hundred Thirty Eight Thousand Dollars and Zero Cents (\$255,138,000.00)** for the faithful performance of the annexed contract, and in the sum of **Two Hundred Fifty Five Million One Hundred Thirty Eight Thousand Dollars and Zero Cents (\$255,138,000.00)** for the benefit of laborers and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract with the City of San Diego, California, then the obligation herein with respect to a faithful performance shall be void; otherwise it shall remain in full force.

If the Principal shall promptly pay all persons, firms and corporations furnishing materials for or performing labor in the execution of this contract, and shall pay all amounts due under the California Unemployment Insurance Act then the obligation herein with respect to laborers and materialmen shall be void; otherwise it shall remain in full force.

The obligation herein with respect to laborers and materialmen shall inure to the benefit of all persons, firms and corporations entitled to file claims under the provisions of Article 2. Claimants, (iii) public works of improvement commencing with Civil Code Section 9100 of the Civil Code of the State of California.

Changes in the terms of the annexed contract or specifications accompanying same or referred to therein shall not affect the Surety's obligation on this bond, and the Surety hereby waives notice of same.

The Surety expressly agrees that the City of San Diego may reject any contractor or subcontractor which may be proposed by Surety in fulfillment of its obligations in the event of default by the Principal.

The Surety shall not utilize the Principal in completing the improvements and work specified in the Agreement in the event the City terminates the Principal for default.

PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND (continued)

Dated May 25, 2021


Approved as to Form

Kiewit Infrastructure West Co.
Principal

By 

Terrence L. Robinson, Senior Vice President
Printed Name of Person Signing for Principal

Mara W. Elliott, City Attorney

By 
Deputy City Attorney

Travelers Casualty and Surety Company of America
Surety

By 
Attorney-in-fact Traci Sutton

Approved:

By 
Mayor or Designee

1550 Mike Fahey St
Local Address of Surety

Omaha, NE 68102
Local Address (City, State) of Surety

(402) 271-2956
Local Telephone No. of Surety

Premium \$ 1,020,552

Bond No. 107429807



**Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company**

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Philip G. Dehn, Tammy Pike, Paul A. Foss, Marie Huggins, Traci Sutton, and Deanne Jones** of **Omaha, Nebraska** their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **3rd** day of **February, 2017**.



State of Connecticut

City of Hartford ss.

By: 
Robert L. Raney, Senior Vice President

On this the **3rd** day of **February, 2017**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2021**




Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **25th** day of **May**, 20**21**




Kevin E. Hughes, Assistant Secretary

**To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which the power is attached.**

NOTARY ACKNOWLEDGMENT

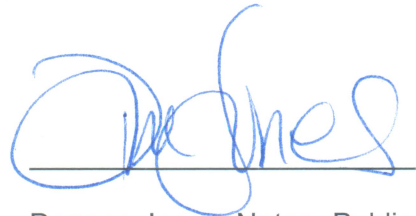
STATE OF NEBRASKA

COUNTY OF DOUGLAS

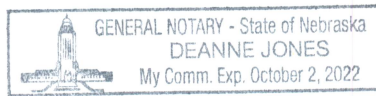
I, Deanne Jones, a Notary Public in and for said County and State, do hereby certify that Traci Sutton, Attorney-in-Fact of Travelers Casualty and Surety Company of America, proved to me on the basis of satisfactory evidence to be the person who appeared before me, and acknowledged that she signed, sealed and delivered a said instrument, for and on behalf of Travelers Casualty and Surety Company of America for the uses and purposes therein set forth.

Given under my hand and notarial seal, the 25th day of

May, 2021



Deanne Jones, Notary Public



CALIFORNIA ACKNOWLEDGMENT

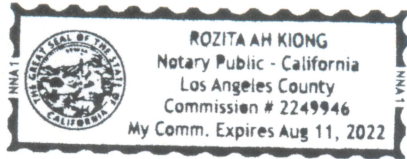
CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }
County of Los Angeles }

On June 3, 2021 before me, Rozita Ah Kiong, Notary Public
Date Here Insert Name and Title of the Officer
personally appeared Terrence L. Robinson, Senior Vice President
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Handwritten Signature]
Signature of Notary Public

Place Notary Seal and/or Stamp Above

OPTIONAL

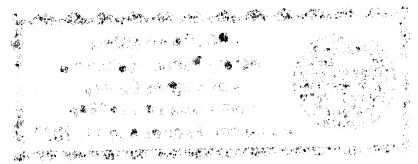
Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Performance Bond, Labor and Material
Document Date: May 25, 2021 Number of Pages: 2
Signer(s) Other Than Named Above: No other signer(s)

Capacity(ies) Claimed by Signer(s)

Signer's Name: Terrence L. Robinson
[] Corporate Officer - Title(s): Senior Vice President
[] Partner - [] Limited [] General
[] Individual [] Attorney in Fact
[] Trustee [] Guardian of Conservator
[] Other:
Signer is Representing: Kiewit Infrastructure West Co.



CONTRACT AGREEMENT

CONSTRUCTION CONTRACT

This Phase-Funded contract is made and entered into between **THE CITY OF SAN DIEGO**, a municipal corporation, herein called "City", and **Kiewit Infrastructure West Co.**, herein called "Contractor" for construction of **North City Water Reclamation Plant Expansion and NCPWF Influent Pump Station and Pipeline**; Bid No. **K-21-1861-DBB-3**; in the total amount **Two Hundred Fifty Five Million One Hundred Thirty Eight Thousand Dollars and Zero Cents (\$255,138,000.00)**, which is comprised of the Base Bid consisting of an amount not to exceed **\$6,165,372.00** for Phase 1, **\$35,969,610.00** for Phase 2, **\$80,095,009.00** for Phase 3, **\$105,146,270.00** for Phase 4, and **\$27,761,739.00** for Phase 5.

IN CONSIDERATION of the payments to be made hereunder and the mutual undertakings of the parties hereto, City and Contractor agree as follows:

1. The following are incorporated into this contract as though fully set forth herein:
 - (a) The attached Faithful Performance and Payment Bonds.
 - (b) The attached Proposal included in the Bid documents by the Contractor.
 - (c) Reference Standards listed in the Instruction to Bidders and the Supplementary Special Provisions (SSP).
 - (d) Phased Funding Schedule Agreement.
 - (e) That certain documents entitled **North City Water Reclamation Plant Expansion and NCPWF Influent Pump Station and Pipeline** on file in the office of the City Clerk Department as Document No. **B-15142, B-16140, S-17012**, as well as all matters referenced therein.
2. The Contractor shall perform and be bound by all the terms and conditions of this contract and in strict conformity therewith shall perform and complete in a good and workmanlike manner **North City Water Reclamation Plant Expansion and NCPWF Influent Pump Station and Pipeline**, Bid Number **K-21-1861-DBB-3**, San Diego, California.
3. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and the Contractor shall accept such payment in full satisfaction of all claims incident to such performances (See WHITEBOOK, Section 7-3.10, Phased Funding Compensation).
4. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
5. This contract is effective as of the date that the Mayor or designee signs the agreement and is approved by the City Attorney in accordance with San Diego Charter Section 40.

CONTRACT AGREEMENT (continued)

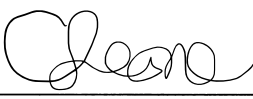
IN WITNESS WHEREOF, this Agreement is signed by the City of San Diego, acting by and through its Mayor or designee, pursuant to Resolution No. R - _____ or Municipal Code _____ authorizing such execution.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM

By 

Mara W. Elliott, City Attorney

By 


Print Name: Alia Khouri
Deputy Chief Operating Officer

Print Name: Christine Leone
Deputy City Attorney

Date: 06/25/2021

Date: June 27, 2021

CONTRACTOR

By 

Print Name: Terrence L. Robinson

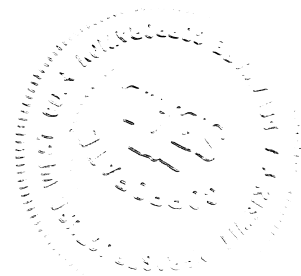
Title: Senior Vice President

Date: June 17, 2021

City of San Diego License No.: _____

State Contractor's License No.: 433176

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION NUMBER: 1000001147



CALIFORNIA ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }
County of Los Angeles

On June 17, 2021 before me, Monica Barbosa, Notary Public,
Date Here Insert Name and Title of the Officer

personally appeared Terrence L. Robinson, Senior Vice President
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Monica Barbosa
Signature of Notary Public

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Contract Agreement

Document Date: June 17, 2021 Number of Pages: 2

Signer(s) Other Than Named Above: No other signers

Capacity(ies) Claimed by Signer(s)

Signer's Name: Terrence L. Robinson

Corporate Officer – Title(s): Senior Vice President

Partner – Limited General

Individual Attorney in Fact

Trustee Guardian of Conservator

Other: _____

Signer is Representing: Kiewit Infrastructure West Co.

Signer's Name: _____

Corporate Officer – Title(s): _____

Partner – Limited General

Individual Attorney in Fact

Trustee Guardian of Conservator

Other: _____

Signer is Representing: _____