

# City of San Diego

**CONTRACTOR'S NAME:** Orion Construction Corporation

**ADDRESS:** 2185 La Mirada Drive, Vista CA, 92081

**TELEPHONE NO.:** (760) 597-9660 **FAX NO.:** (760) 597-9661

**CITY CONTACT:** Antoinette Sanfilippo, Contract Specialist **EMAIL:** [ASanfilippo@sandiego.gov](mailto:ASanfilippo@sandiego.gov)

Phone No.: (619) 533-3439

J.Cramoline/J.Borja/Lad

## CONTRACT DOCUMENTS



## FOR

### EMERGENCY CONSTRUCTION SERVICES FOR:

### REVELSTOKE (8893) WAY STORM DRAIN REPLACEMENT

RFQ NO.: 1682

BID NO.: K-18-1745-EMR-3

SAP NO. (WBS/IO/CC): B-18133

CLIENT DEPARTMENT: 2116

COUNCIL DISTRICT: 6

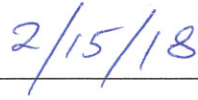
PROJECT TYPE: CA

## DEPUTY CITY ENGINEER

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



Registered Engineer  
For City Engineer



Date

Seal:



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## CITY OF SAN DIEGO, CALIFORNIA

### GENERAL

#### 1. DESCRIPTION OF WORK:

- 1.1. The Work involves furnishing all labor, materials, equipment, services, and other incidental works and appurtenances for the purpose of designing and constructing this emergency project at the direction of the City Engineer.
- 1.2. The Work consists of repair of the failed slope adjacent to 8893 Revelstoke Way and the replacement of approximately 125 LF of 30" storm drain with 30-inch RCP. The contractor will procure a Geotechnical and Civil engineers to perform design the of the storm drain replacement which will include headwalls and an energy dissipator at the outlet. An environmental monitor will also be required for pre-construction assessment, biomonitoring during construction, and post-construction revegetation plan development and monitoring of the repaired slope. The contractor will submit thier pollution control and traffic control plans before commencing work.
- 1.3. This solicitation is for a "Time-and-Materials" contract in accordance with the provisions set forth in 3-2.4, "Agreed Prices" of The GREENBOOK.
- 1.4. A time-and-materials contract provides for acquiring labor, material, equipment and services that shall be paid for in accordance with 3-3, "EXTRA WORK" of The GREENBOOK and as modified by The WHITEBOOK.

#### 2. CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:

- 2.1. **Prior** to the Award of the Contract or each Task Order, the Contractor must comply with the following registration requirements:
  - 2.1.1. This project is subject to compliance monitoring and enforcement by the California Department of Industrial Relations (DIR). **Contractor and Subcontractor Registration Requirements** for compliance with those requirements are outlined in are outlined in paragraph 8.9 of these "General" instructions".
  - 2.1.2. In addition, prior to award of the Contract or each Task Order, the Contractor and its Subcontractors and Suppliers **must** register with Prism®, the City's web-based contract compliance portal at:  
  
<https://pro.prismcompliance.com/default.aspx>.
  - 2.1.3. 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.



**3. EQUAL OPPORTUNITY.**

**3.1.** For the City's Equal Opportunity Program requirements see Part 10 of the City of San Diego 2015 Whitebook and Exhibit I, Supplementary Special Provisions.

**4. CONTRACT TIME:** The Work including the Plant Establishment Period shall be completed within **980 Calendar Days** from the date of issuance of the Notice to Proceed.

**5. CONTRACT PRICE:** The Engineer's Estimate of the Contract Price is **\$1,500,000**. The Contractor shall not perform Work that exceeds the Engineer's Estimate excluding Allowances without prior written notice from the City that sufficient additional funding has been secured.

**6. CONTRACTOR'S LICENSE CLASSIFICATION:** In accordance with the provisions of California Law, the Contractor shall possess valid appropriate license(s) at the time of award. The City has determined the following licensing classification for this contract: Class A.

**7. 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.

**7.1. 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.

**7.1.1.** 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.

**7.1.2.** 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.

- 7.2. 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.
- 7.3. 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.
- 7.3.1.** Contractor and 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.
- 7.4. 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.
- 7.5. 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.
- 7.6. 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.
- 7.7. 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."

- 7.8. 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 Equal Opportunity Contracting Department at 619-236-6000.
- 7.9. 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.
- 7.9.1.** 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.
- 7.9.2.** 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.
- 7.10. 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.
- 7.11. 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.

**7.12. 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:

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

**7.12.2.** 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).

**7.12.3.** 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 4.20.11 above. (Labor code section 1773.3).

**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") <a href="http://www.greenbookspecs.org/">http://www.greenbookspecs.org/</a>	2015	PWPI070116-01
City of San Diego Standard Specifications for Public Works Construction ("The WHITEBOOK")* <a href="https://www.sandiego.gov/publicworks/edocref/greenbook">https://www.sandiego.gov/publicworks/edocref/greenbook</a>	2015	PWPI070116-02
City of San Diego Standard Drawings* <a href="https://www.sandiego.gov/publicworks/edocref/standarddraw">https://www.sandiego.gov/publicworks/edocref/standarddraw</a>	2016	PWPI070116-03
Citywide Computer Aided Design and Drafting (CADD) Standards <a href="https://www.sandiego.gov/publicworks/edocref/drawings">https://www.sandiego.gov/publicworks/edocref/drawings</a>	2016	PWPI092816-04

Title	Edition	Document Number
California Department of Transportation (CALTRANS) Standard Specifications - <a href="http://www.dot.ca.gov/des/oe/construction-contract-standards.html">http://www.dot.ca.gov/des/oe/construction-contract-standards.html</a>	2015	PWPI092816-05
CALTRANS Standard Plans - <a href="http://www.dot.ca.gov/des/oe/construction-contract-standards.html">http://www.dot.ca.gov/des/oe/construction-contract-standards.html</a>	2015	PWPI092816-06
California Manual on Uniform Traffic Control Devices Revision 1 (CA MUTCD Rev 1) - <a href="http://www.dot.ca.gov/trafficops/camutcd/">http://www.dot.ca.gov/trafficops/camutcd/</a>	2014	PWPI092816-07
<b>NOTE:</b> *Available online under Engineering Documents and References at: <a href="http://www.sandiego.gov/publicworks/edocref/index.shtml">http://www.sandiego.gov/publicworks/edocref/index.shtml</a>		

**9. INSURANCE REQUIREMENTS:**

- 9.1.** 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.
- 9.2.** Refer to sections 7-3, "LIABILITY INSURANCE", and 7-4, "WORKERS' COMPENSATION INSURANCE" of the Supplementary Special Provisions (SSP) for the insurance requirements which must be met.

**10. SUBMITTAL OF "OR EQUAL" ITEMS:** See 4-1.6, "Trade Names or Equals."

**11. SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 2-3, "SUBCONTRACTS" which requires the Contractor to perform not less than the amount therein stipulated with its own forces. Failure to comply with these requirements shall render the Bid non-responsive and ineligible for award.

**12. PLANS AND SPECIFICATIONS:** When provided by the City, questions about the meaning or intent of the Contract Documents relating to the scope of Work and technical nature shall be directed to the City's Project Manager prior to commencement of work. Interpretations or clarifications considered necessary by the City in response to such questions will be issued in writing. Oral and other interpretations or clarifications will be without legal effect. Any questions related to this proposal shall be addressed to the Public Works Contracts, 525 B Street, Suite 750, MS 908A, San Diego, California, 92101, Telephone No. (619) 533-3450.

**13. SAN DIEGO BUSINESS TAX CERTIFICATE:** All Contractors, including 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, before the Contract can be executed.

- 14. PROPOSAL FORMS:** The signature of each person signing may be in longhand or in electronic format as specified by the City. The Contractor 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.
- 15. CITY'S RIGHTS RESERVED:** The City reserves the right to cancel this request for proposal at any time, and further reserves the right to reject submitted proposals, without giving any reason for such action, at its sole discretion and without liability. Costs incurred by the Contractor as a result of preparing its proposal shall be the sole responsibility of the Contractor.
- 16. AWARD OF CONTRACT OR REJECTION OF PROPSALS:**
- 16.1.** This contract may be awarded to a contractor selected from the City's as-needed emergency contractors list or may be awarded to another contractor in case the list of available emergency contractors list is exhausted.
- 16.2.** The City reserves the right to reject the proposal from the emergency list-selected contractor and request a proposal from the next contractor on the list when such rejection is in the best interests of the City.
- 17. THE CONTRACT:** The Contractor shall execute a written contract with the City of San Diego and furnish good and approved bonds and insurance documents specified in 2-4, "CONTRACT BONDS," 7-3, "LIABILITY INSURANCE," and 7-4 WORKERS' COMPENSATION INSURANCE within **10 Working Days** after receipt by the Contractor of a form of contract for execution unless an extension of time is granted to the Contractor in writing. Bonds shall be in amount of the Contract Price for the Work included in the Bid.
- 18.** 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. If the Contractor fails to enter into the contract as herein provided, the award may be annulled. An award may be made to the next contractor on the shortlist or in the case the emergency contractor's list is exhausted to any other responsive contractor on a sole-source basis who shall fulfill every stipulation embraced herein as if it were the party to whom the first award was made.
- 19. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK:** The Contractor shall examine carefully the Project Site, the Plans and Specifications, other materials as described in the Special Provisions, Section 2-7, and the proposal forms. The signing of the Contract shall be conclusive evidence that the Contractor 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 Contract Documents.
- 20. CITY STANDARD PROVISIONS.** This contract is subject to the following standard provisions. See The WHITEBOOK for details.

- 20.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
- 20.2.** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
- 20.3.** The City of San Diego Municipal Code §22.3004 for Pledge of Compliance.
- 20.4.** The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
- 20.5.** 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.
- 20.6.** The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
- 20.7.** The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.

James Nagelvoort, Director  
Public Works Department

**AGREEMENT  
FOR  
EMERGENCY CONSTRUCTION SERVICES  
BETWEEN  
THE CITY OF SAN DIEGO  
AND  
ORION CONSTRUCTION CORPORATION**

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This Emergency Construction Services Agreement (Agreement) is made and entered into by and between The City of San Diego (City), California a municipal corporation, and **ORION CONSTRUCTION CORPORATION**, for the purpose of designing (when required) and performing emergency construction services at the direction of the City Engineer. The City and the Contractor are referred to herein as the "Parties."

**RECITALS**

- A. The City desires to construct the emergency project identified in Section 1, Description of Work.
- B. The City desires to contract with a single entity for Emergency Construction Services, as set forth in this agreement.
- C. The City had previously issued a Request for Qualifications (RFQ), via RFQ 1682, for on-call emergency construction services.
- D. In accordance with this RFQ, Contractors submitted Statements of Qualifications (SOQ) for these services from which the City established a pre-qualified list of the most highly qualified contractors to perform emergency construction services as directed by the City.
- E. In accordance with said RFQ, the Contractor submitted an SOQ and is prepared to enter into this agreement.
- F. The City has selected the Contractor from the City's list of on-call contractors to perform, either directly or with Subcontracts hereinafter defined, the design, engineering, and construction services set forth in this agreement and the Contract Documents.
- G. The Contractor is ready, willing, and able to perform the emergency construction services required as specified in the Scope of Work and Services section of this agreement and in accordance with the terms and conditions of this agreement and under the direction of the Engineer.

In consideration of the above recitals and the mutual covenants and conditions set forth herein, and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby set forth their mutual covenants and understandings as follows:



## **AGREEMENT**

THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", agrees to pay **ORION CONSTRUCTION CORPORATION**, herein called "Contractor" for its time and materials used to construct **Revelstoke (8893) Way Storm Drain Replacement**; in the amount not to exceed **\$1,500,000 DOLLARS 00/100**.

- A. The following are incorporated into this contract as though fully set forth herein:
  - 1. The attached Faithful Performance and Payment Bonds.
  - 2. The attached Proposal included in the Bid documents by the Contractor.
  - 3. Reference Standards listed in the General Instructions and the Supplementary Special Provisions (SSP).
  - 4. That certain documents entitled **Revelstoke (8893) Way Storm Drain Replacement**, on file in the office of the Public Works Department as Document No. **B-18133**, as well as all matters referenced therein.
- B. 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 **Revelstoke (8893) Way Storm Drain Replacement**, Bid Number **K-18-1745-EMR-3**, San Diego, California.
- C. 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.
- D. 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.
- E. This contract is effective as of the date the City issued the Contractor a written notice to proceed (NTP), or the date of the last signatory below, whichever occurred first.
- F. The above referenced recitals are true and correct and are incorporated into this agreement by this reference.
- G. Exhibits referenced in this agreement are incorporated into the Agreement by this reference.
- H. The Contractor, including 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, before the Agreement can be executed.

- I. Upon award, amendment, renewal, or extension of such contracts, the Contractors shall complete a Pledge of Compliance attesting under penalty of perjury that they complied with the requirements of City Municipal Code §22.3004.
- J. The Contractor shall ensure that all Subcontractors complete a Pledge of Compliance attesting under penalty of perjury that they complied with the requirements of this section. The Contractor shall include in each subcontract agreement, language which requires Subcontractors to abide by the provisions of City Municipal Code §22.3004. A sample provision is as follows:

“Subcontractor acknowledges that it is familiar with the requirements of San Diego Municipal Code §22.3004 (“Contractor Standards”), and agrees to comply with requirements of that section. The Subcontractor further agrees to complete the Pledge of Compliance, incorporated herein by reference.”
- K. Pledge of Compliance may be downloaded at:

[http://www.sandiego.gov/purchasing/pdf/contractor\\_standards\\_questionnaire.pdf](http://www.sandiego.gov/purchasing/pdf/contractor_standards_questionnaire.pdf)
- L. The Contractor shall complete the work to be performed under this agreement and shall achieve Acceptance within the allowed number of Working Days from the NTP as specified in the Notice of Award, unless authorized otherwise by the Engineer. Time is of essence for the completion of the Work and the Project has critical milestones to be met as listed in the Notice of Award.
- M. During the final design process (if any), if the Contractor modifies the Project such that a revision of the environmental document is required, the Contractor shall be responsible for all work required for implementing a revision, including preparation of revised documentation and coordination with City staff. Work shall not proceed on the project until the environmental requirements are met to the satisfaction of the City. There shall be no additional time allowed in the contract for processing and approval of revised permit documents.
- N. Prior to NTP or as required by the City, the Contractor shall:
  - 1. File surety bonds with the City to be approved by the City in the amounts and for the purposes noted in the Notice Inviting Bids and
  - 2. Obtain the required insurance in accordance with 7-3, "LIABILITY INSURANCE" and any additional insurance as may be specified in the Supplemental Special Provisions.

IN WITNESS WHEREOF, this Agreement is executed by the City of San Diego, acting by and through its Mayor or designee, pursuant to the emergency contract provisions of City Charter §94 authorizing such execution, and by the Contractor.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM

By \_\_\_\_\_

Print Name: Rosa Isela Riego  
Senior Contract Specialist

Date: 03/27/2018

Mara W. Elliott, City Attorney

By \_\_\_\_\_

Print Name: Davin A. Widgerow  
Deputy City Attorney

Date: 4-11-2018

CONTRACTOR

By \_\_\_\_\_

Print Name: RICHARD DOWSING

Title: PRESIDENT

Date: 02/23/2018

City of San Diego License No.: B1992002970

State Contractor's License No.: 549309

**AGREEMENT (continued)**  
**PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND**

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**FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:**

Orion Construction Corporation, a corporation, as principal, and  
Western Surety Company, 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  
**One Million Five Hundred Thousand Dollars and Zero Cents (\$1,500,000)** for the faithful  
performance of the annexed contract, and in the sum of **One Million Five Hundred Thousand  
Dollars and Zero Cents (\$1,500,000)** for the benefit of laborers and materialmen designated  
below.

**Conditions:**

If the Principal shall faithfully perform the annexed contract **Revelstoke (8893) Way  
Storm Drain Replacement**, Bid Number **K-18-1745-EMR-3**, 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.



**AGREEMENT (continued)**  
**PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND**

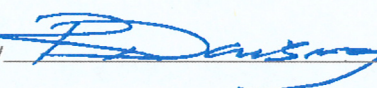
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The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

Dated February 22, 2018

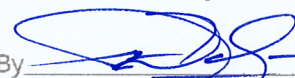
Approved as to Form

Orion Construction Corporation  
Principal

By 


Richard Dowsing, President  
Printed Name of Person Signing for Principal

Mara W. Elliott, City Attorney

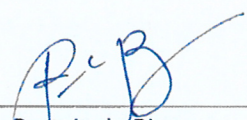
By   
Deputy City Attorney  
4-11-2018

Western Surety Company

Surety

By   
Attorney-in-fact - Maria Guise

Approved:

By   
Rosa Isela Riego  
Senior Contract Specialist  
Public Works Department

1455 Frazee Road, Suite 300

Local Address of Surety

San Diego, CA 92108

Local Address (City, State) of Surety

619-682-3507

Local Telephone No. of Surety

Premium \$ 15,260.00

Premium subject to adjustment based on final contract price  
(premium includes 9 months time surcharge)

Bond No. 30028324

# CALIFORNIA ALL-PURPOSE 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 Orange )

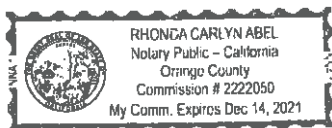
On FEB 22 2018 before me, Rhonda Carlyn Abel, Notary Public,  
Date Here Insert Name and Title of the Officer

personally appeared Maria Guise  
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 Above

## OPTIONAL

Though this section is 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: \_\_\_\_\_ Document Date: \_\_\_\_\_

Number of Pages: \_\_\_\_\_ Signer(s) Other Than Named Above: \_\_\_\_\_

### Capacity(ies) Claimed by Signer(s)

Signer's Name: \_\_\_\_\_

☐ Corporate Officer — Title(s): \_\_\_\_\_

☐ Partner — ☐ Limited ☐ General

☐ Individual ☒ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

Signer's Name: \_\_\_\_\_

☐ Corporate Officer — Title(s): \_\_\_\_\_

☐ Partner — ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

# Western Surety Company

## POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

**Michael D Parizino, Rhonda C Abel, James A Schaller, Jeri Apodaca, Maria Guise, Rachelle Rheault, Kim Luu, Individually**

of Newport Beach, CA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

### - In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 7th day of January, 2016.



WESTERN SURETY COMPANY

Paul T. Bruflat  
Paul T. Bruflat, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 7th day of January, 2016, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

June 23, 2021



J. Mohr  
J. Mohr, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 22nd day of February, 2018.



WESTERN SURETY COMPANY

L. Nelson  
L. Nelson, Assistant Secretary

## **EXHIBIT A**

### **DRUG-FREE WORKPLACE CERTIFICATION**



**EXHIBIT A**

**DRUG-FREE WORKPLACE**

**PROJECT TITLE:** Revelstoke (8893) Way Storm Drain Replacement

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 7-13.3, "Drug-Free Workplace", of the project specifications, and that;

ORION CONSTRUCTION CORP.

(Name under which business is conducted)

has in place a drug-free workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of subdivisions a) through c) of the policy as outlined.

Signed 

Printed Name RICHARD DOWSING

Title PRESIDENT

## **EXHIBIT B**

### **AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION**

**EXHIBIT B**

**AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION**

**PROJECT TITLE:** Revelstoke (8893) Way Storm Drain Replacement

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the American With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 7-13.2, "American With Disabilities Act", of the project specifications, and that;

ORION CONSTRUCTION CORP

(Name under which business is conducted)

has in place workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of the policy as outlined.

Signed

R. Dowsing

Printed Name

RICHARD DOWSING

Title

PRESIDENT

## **EXHIBIT C**

### **CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE**

EXHIBIT C

CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

PROJECT TITLE: Revelstoke (8893) Way Storm Drain Replacement

I declare under penalty of perjury that I am authorized to make this certification on behalf of ORION CONSTRUCTION CORP. as Contractor, that I am familiar with the requirements of City of San Diego Municipal Code § 22.3004 regarding Contractor Standards as outlined in the WHITEBOOK, Section 7-13.4, "Contractor Standards", of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3004.

Dated this 23 Day of FEB. 2018.

Signed 

Printed Name RICHARD DOWSING

Title PRESIDENT

**EXHIBIT D**

**AFFIDAVIT OF DISPOSAL**

**EXHIBIT D**

**AFFIDAVIT OF DISPOSAL**

**WHEREAS**, on the \_\_\_\_\_ DAY OF \_\_\_\_\_, \_\_\_\_\_, the undersigned entered into and executed a contract with the City of San Diego, a municipal corporation, for:

**Revelstoke (8893) Way Storm Drain Replacement**

(Project Title)

as particularly described in said contract and identified as Bid No. **K-18-1745-EMR-3**; SAP No. WBS **B-18133**; 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

**EXHIBIT E**

**NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID  
UNDER 23 UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106**



EXHIBIT E

NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID  
UNDER 23 UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106

State of California )  
County of SAN DIEGO ) ss.

RICHARD DOWSING, being first duly sworn, deposes  
and says that he or she is PRESIDENT of the party making the foregoing  
bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership,  
company, association, organization, or corporation; that the bid is genuine and not collusive or  
sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in  
a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with  
any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the  
bidder has not in any manner, directly or indirectly, sought by agreement, communication, or  
conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any  
overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any  
advantage against the public body awarding the contract of anyone interested in the proposed  
contract; that all statements contained in the bid are true; and further, that the bidder has not,  
directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents  
thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any  
corporation, partnership, company association, organization, bid depository, or to any member  
or agent thereof to effectuate a collusive or sham bid.

Signed: R. Dowsing  
Title: PRESIDENT  
Subscribed and sworn to before me this 23<sup>rd</sup> day of February 2018  
Ricardo Ramirez  
Notary Public



## **EXHIBIT F**

### **CONTRACTORS CERTIFICATION OF PENDING ACTIONS**

## EXHIBIT F

### CONTRACTORS CERTIFICATION OF PENDING ACTIONS

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past ten years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

CHECK ONE BOX ONLY.



The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.



The undersigned certifies that within the past 10 years the Bidder has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of that complaint, including any remedial action taken and the applicable dates is as follows:

DATE OF CLAIM	LOCATION	DESCRIPTION OF CLAIM	LITIGATION (Y/N)	STATUS	RESOLUTION/REMEDIAL ACTION TAKEN

Contractor Name: ORION CONSTRUCTION CORP.

Certified By RICHARD DOWSING Title PRESIDENT  
Name

  
Signature

Date 02/23/2018

USE ADDITIONAL FORMS AS NECESSARY

**EXHIBIT G**

**EQUAL BENEFITS ORDINANCE CERTIFICATION**

**AND**

**EQUAL PAY ORDINANCE CERTIFICATION**

## **CONTRACTOR CERTIFICATION**

---

### **EQUAL BENEFITS ORDINANCE CERTIFICATION**

I declare under penalty of perjury that I am familiar with the requirements of and in compliance with the City of San Diego Municipal Code § 22.4300 regarding Equal Benefits Ordinance.

## **CONTRACTOR CERTIFICATION**

---

### **EQUAL PAY ORDINANCE CERTIFICATION**

Contractor shall comply with the Equal Pay Ordinance (EPO) codified in the San Diego Municipal Code (SDMC) at section 22.4801 through 22.4809, unless compliance is not required based on an exception listed in SDMC section 22.4804.

Contractor shall require all of its subcontractors to certify compliance with the EPO in their written subcontracts.

Contractor must post a notice informing its employees of their rights under the EPO in the workplace or job site.

By signing this Contract with the City of San Diego, Contractor acknowledges the EPO requirements and pledges ongoing compliance with the requirements of SDMC Division 48, section 22.4801 et seq., throughout the duration of this Contract.

## **EXHIBIT H**

### **FORMS**

# LIST OF SUBCONTRACTORS

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the California Public Contract Code (PCC), the Bidder is to list below the name, address and license number of each Subcontractor who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement, in an amount of or in excess of 0.5% of the Contractor's total Bid. Failure to comply with this requirement may result in the Bid being rejected as non-responsive. The Contractor is to list only one Subcontractor for each portion of the Work. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percentage of the Work to be performed with the Bidder's own forces. The Bidder is to also list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which the Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	DIR Registration Number	CONTRACTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>NINYO I MOORE</u> Address: <u>5710 RUFFIN RD.</u> City: <u>S.D.</u> State: <u>CA</u> Zip: <u>92123</u> Phone: _____ Email: _____	<u>N/A</u>	<u>DESIGNER</u>	<u>N/A</u>	<u>GEN. TECH TESTING</u>	<u>TBD</u>	<u>OBE</u>		
Name: <u>LAND SURVEYING CONSULTANTS</u> Address: <u>318 STATE PL.</u> City: <u>ESCONDIDO</u> State: <u>CA</u> Zip: <u>92029</u> Phone: _____ Email: _____	<u>N/A</u>	<u>DESIGNER</u>	<u>N/A</u>	<u>SURVEYING</u>	<u>TBD</u>	<u>OBE</u>		

- ① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):
- |   |        |  |         |
|---|--------|--|---------|
| Certified Minority Business Enterprise        | MBE    | Certified Woman Business Enterprise            | WBE     |
| Certified Disadvantaged Business Enterprise   | DBE    | Certified Disabled Veteran Business Enterprise | DVBE    |
| Other Business Enterprise                     | OBE    | Certified Emerging Local Business Enterprise   | ELBE    |
| Certified Small Local Business Enterprise     | SLBE   | Small Disadvantaged Business                   | SDB     |
| Woman-Owned Small Business                    | WoSB   | HUBZone Business                               | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB |  |         |
- ② As appropriate, Bidder shall indicate if Subcontractor is certified by:
- |  |        |  |          |
|--|--------|--|----------|
| City of San Diego                                    | CITY   | State of California Department of Transportation | CALTRANS |
| California Public Utilities Commission               | CPUC   |  |          |
| State of California's Department of General Services | CADoGS | City of Los Angeles                              | LA       |
| State of California                                  | CA     | U.S. Small Business Administration               | SBA      |
- The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.



# LIST OF SUBCONTRACTORS

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the California Public Contract Code (PCC), the Bidder is to list below the name, address and license number of each Subcontractor who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement, in an amount of or in excess of 0.5% of the Contractor's total Bid. Failure to comply with this requirement may result in the Bid being rejected as non-responsive. The Contractor is to list only one Subcontractor for each portion of the Work. The Bidder's attention is directed to the Special Provisions - General, Paragraph 2-3 Subcontracts, which stipulates the percentage of the Work to be performed with the Bidder's own forces. The Bidder is to also list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which the Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	DIR Registration Number	CONTRACTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>HELIX ENVIRONMENTAL</u> Address: <u>117578 EL CAYON BLVD</u> City: <u>LA MESA</u> State: <u>CA</u> Zip: <u>91942</u> Phone: _____ Email: _____	<u>N/A</u>	<u>DESIGNER</u>	<u>N/A</u>	<u>REVENUE DESIGN, ENVIR. MONITORING</u>	<u>TBD</u>	<u>OBE</u>		
Name: <u>HARRIS &amp; ASSOC</u> Address: <u>600 B ST. #200</u> City: <u>S.D.</u> State: <u>CA</u> Zip: <u>92101</u> Phone: _____ Email: _____	<u>N/A</u>	<u>DESIGNER</u>	<u>N/A</u>	<u>CIVIL DESIGN</u>	<u>TBD</u>	<u>OBE</u>		

① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	WBE
Certified Disadvantaged Business Enterprise	DBE	DVBE
Other Business Enterprise	OBE	ELBE
Certified Small Local Business Enterprise	SLBE	SDB
Woman-Owned Small Business	WoSB	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB	

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	City of Los Angeles	LA
State of California's Department of General Services	CADoGS	U.S. Small Business Administration	SBA
State of California	CA		

**The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.**

**NAMED EQUIPMENT/MATERIAL SUPPLIER LIST**

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	DIR Registration Number	MATERIALS OR SUPPLIES	DOLLAR VALUE OF MATERIAL OR SUPPLIES	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>①</sup>	WHERE CERTIFIED <sup>②</sup>
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____							

- ① As appropriate, Bidder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):
- |   |        |  |         |
|---|--------|--|---------|
| Certified Minority Business Enterprise        | MBE    | Certified Woman Business Enterprise            | WBE     |
| Certified Disadvantaged Business Enterprise   | DBE    | Certified Disabled Veteran Business Enterprise | DVBE    |
| Other Business Enterprise                     | OBE    | Certified Emerging Local Business Enterprise   | ELBE    |
| Certified Small Local Business Enterprise     | SLBE   | Small Disadvantaged Business                   | SDB     |
| Woman-Owned Small Business                    | WoSB   | HUBZone Business                               | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB |  |         |

- ② As appropriate, Bidder shall indicate if Vendor/Supplier is certified by:
- |  |        |  |          |
|--|--------|--|----------|
| City of San Diego                                    | CITY   | State of California Department of Transportation | CALTRANS |
| California Public Utilities Commission               | CPUC   |  |          |
| State of California's Department of General Services | CADoGS | City of Los Angeles                              | LA       |
| State of California                                  | CA     | U.S. Small Business Administration               | SBA      |

**The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.**

## **EXHIBIT I**

### **SUPPLEMENTARY SPECIAL PROVISIONS (SSP)**

## EXHIBIT I

### SUPPLEMENTARY SPECIAL PROVISIONS

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

1. The **2015 Edition** of the Standard Specifications for Public Works Construction (The "GREENBOOK").
2. The **2015 Edition** of the City of San Diego Standard Specifications for Public Works Construction (The "WHITEBOOK"), including the following:
  - a) General Provisions (A) for all Contracts.

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

- 1-2 TERMS AND DEFINITIONS.** To the "WHITEBOOK", item 54, "Normal Working Hours", ADD the following:

The **Normal Working Hours** are 7:30 AM to 3:30 PM.

#### SECTION 2 - SCOPE AND CONTROL OF WORK

- 2-3.2 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 50% of the base Bid.

**ADD:**

- 2-10 AUTHORITY OF THE BOARD AND THE ENGINEER.** To the "GREENBOOK", Paragraph (2), DELETE in its entirety and SUBSTITUTE with the following:

The decision of the Engineer is final and binding on all questions relating to: quantities; acceptability of material, equipment, or work; execution, progress or sequence of work; requests for information (RFI), and interpretation of the Plans, Specifications, or other Contract Documents. This shall be precedent to any payment under the Contract. The Engineer shall be the single point of contact and shall be included in all communications.

**2-16** **CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM.** To the "WHITEBOOK", item 1, DELETE in its entirety.

### **SECTION 3 – CHANGES IN WORK**

**3-5.1** **Claims.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

**ADD:**

**3-5.1** **Claims.**

1. A Claim is a written demand by you that seeks an adjustment in the Contract Price, Contract Time, or other relief associated with a dispute arising under or relating to the Contract, including a breach of any provision thereof. A voucher, invoice, or other routine request for payment is not a Claim.
2. A Claim shall conform to these specifications and may be considered after the City has previously denied a request by you for a Change Order seeking the demanded relief.
3. You shall submit a Claim to the Engineer if a dispute occurs that arises from or relates to the Contract. The Claim shall seek all relief to which you assert you are entitled as a result of the event(s) giving rise to the dispute. Your failure to process a Claim in accordance with these specifications shall constitute a waiver of all relief associated with the dispute. Claims are subject to 6-11, "Right to Audit".
4. You shall continue to perform the Services and Work and shall maintain the Schedule during any dispute proceedings. The Engineer will continue to make payments for undisputed Services and Work.
5. The City's Claims process specified herein shall not relieve you of your statutory obligations to present claims prior to any action under the California Government Code.

**3-5.1.1** **Initiation of Claim.**

1. You shall promptly, but no later than 30 Days after the event(s) giving rise to the Claim, deliver the Claim to the Engineer.
2. You shall not process a Claim unless the Engineer has previously denied a request by you for a Change Order that sought the relief to be pursued in the claim.

**3-5.1.1.1** **Claim Certification Submittal.**

1. If your Claim seeks an increase in the Contract Price, the Contract Time, or both, submit with the Claim an affidavit certifying the following:
  - a) The Claim is made in good faith and covers all costs and delays to which you are entitled as a result of the event(s) giving rise to the Claim.

- b) The amount claimed accurately reflects the adjustments in the Contract Price, the Contract Time, or both to which you believe you are entitled.
- c) All supporting costs and pricing data are current, accurate, and complete to the best of your knowledge. The cost breakdown per item of Work shall be supplied.
- d) You shall ensure that the affidavit is executed by an official who has the authority to legally bind you.

**3-5.1.2 Initial Determination.**

- 1. The Engineer will respond in writing to your Claim within 30 Days of receipt of the Claim.

**3-5.1.3 Settlement Meeting.**

- 1. If you disagree with the Initial Determination, you shall request a Settlement Meeting within 30 Days. Upon receipt of this request, the Engineer will schedule the Settlement Meeting within 15 Working Days.

**3-5.1.4 City's Final Determination.**

- 1. If a settle agreement is not reached, the City shall make a written Final Determination within 10 Working Days after the Settlement Meeting.
- 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 and file a "Request for Mediation" in accordance with 3-5.2, "Dispute Resolution Process".
- 3. Failure to give notice of objection within the 15 Working Days period shall waive your right to pursue the Claim.

**3-5.1.5 Mandatory Assistance.**

- 1. If a third party dispute, litigation, or both arises out of or relates in any way to the Services provided under the Contract, upon the City's request, you shall agree to assist in resolving the dispute or litigation. Your assistance includes, but is not limited to the following:
  - a) Providing professional consultations.
  - b) Attending mediations, arbitrations, depositions, trials, or any event related to the dispute resolution and litigation.

**3-5.1.5.1 Compensation for Mandatory Assistance.**

- 1. The City will reimburse you for reasonable fees and expenses incurred by you for any required assistance rendered in accordance with 3-5.1.8, "Mandatory Assistance" as Extra Work.
- 2. The Engineer will determine whether these fees and expenses were necessary due to your conduct or failure to act.

3. If the Engineer determines that the basis of the dispute or litigation in which these fees and expenses were incurred were the result of your conduct or your failure to act in part or in whole, you shall reimburse the City for any payments made for these fees and expenses.
4. Reimbursement may be through any legal means necessary, including the City's withholding of your payment.

**3-5.2.3 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.

**3-5.3 Forum of Litigation.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. It is the express intention that all legal actions and proceedings related to the Contract or Agreement with the City or to any rights or any relationship between the parties arising therefrom shall be solely and exclusively initiated and maintained in courts of the State of California for the County of San Diego.

## **SECTION 4 - CONTROL OF MATERIALS**

**4-1.3.1 General.** To the "WHITEBOOK", ADD the following:

1. Steel pipe in sizes larger than 18 inches shall require inspection at the source of production.

2. City lab staff or a qualified inspection agency approved by the Engineer shall witness all welding, lining, coating, and testing. You shall incur additional inspection costs outlined in 4-1.3.3, "Inspection of Items Not Locally Produced".
3. All parts of production (including but not limited to product fabrication, welding, testing, lining, and coating of straight pieces and specials) shall be performed or produced in the United States.
4. Welding and all testing shall be performed by certified welders and testing staff with credentials traceable in the United States.

**4-1.3.2 Inspection by the Agency.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. The City will provide inspection and testing laboratory services within the continental United States within a 200-mile radius of the geographical limits of the City.

**4-1.3.3 Inspection of Items Not Locally Produced.** To the "WHITEBOOK", DELETE in its entirety.

**ADD:**

**4-1.3.3 Inspection of Items Not Locally Produced.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. When you intend to purchase materials, fabricated products, or equipment from sources located more than 200 miles (321.9 km) outside the geographical limits of the City, City Lab staff or a qualified inspection agency approved by the Engineer, shall be engaged at your expense to inspect the materials, equipment, or process.
2. This approval shall be obtained before producing any material or equipment. City Lab staff or inspector shall evaluate the materials for conformance with the requirements of the Plans and Specifications. You shall forward reports required by the Engineer. No materials or equipment shall be shipped nor shall any processing, fabrication or treatment of such materials be done without proper inspection by City Lab staff or the approved agent. Approval by said agent shall not relieve you of responsibility for complying with the requirements of the Contract Documents.
3. The Engineer may elect City Lab staff to perform inspection of an out-of-town manufacturer. You shall incur additional inspection costs of the Engineer including lodging, meals, and incidental expenses based on Federal Per Diem Rates, along with travel and car rental expenses. If the manufacturing plant operates a double shift, a double shift shall be figured in the inspection costs.
  - a) At the option of the Engineer, full time inspection shall continue for the length of the manufacturing period. If the manufacturing period will exceed 3 consecutive weeks, you shall incur additional



inspection expenses of the Engineer's supervisor for a trip of 2 Days to the site per month.

- b) When the Engineer elects City Lab staff to perform out-of-town inspections, the wages of staff employed by the City shall not be part of the additional inspection expenses paid by you.
- c) Federal Per Diem Rates can be determined at the location below:

<https://www.gsa.gov/portal/content/104877>

**4-1.3.6 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.

## **SECTION 5 - UTILITIES**

**5-2 PROTECTION.** To the "WHITEBOOK", item 2, ADD the following:

- g) Refer to **Exhibit O** or more information on the protection of AMI devices.

**5-6 COOPERATION.** To the "GREENBOOK", ADD the following:

- 1. Notify SDG&E at least 10 Working Days prior to excavating within 10 feet of SDG&E Underground High Voltage Transmission Power Lines (69 KV and higher).

## **SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK**

**6-1.1 Construction Schedule.** To the "WHITEBOOK", item 20, ADD the following:

The 120 Calendar Day for the Plant Establishment Period is included in the stipulated Contract Time.

To the "WHITEBOOK", item 22, subsection b, DELETE in its entirety and SUBSTITUTE with the following:

- b) A curve value percentage comparison between the Contract Price and the updated cash flow forecast for each Project ID included in the Contract Documents. Curve values shall be set on a scale from 0% to 100% in intervals of 5% of the Contract Time. Refer to the Sample City Invoice materials in the Contract Documents and use the format shown. Your invoice amounts shall be supported by this curve value percentage. For previous periods, use the actual values and percentages and update the curve value percentages accordingly.

**6-3.2.1.1 Environmental Document.**

1. The City of San Diego has prepared a **Notice of Exemption** for **8893 Revelstoke Way Emergency Storm Drain Replacemet** (Revelstoke (8893) Way Emergency Storm Drain Replacemet), **Project No. B-18133**, as referenced in the Contract Exhibit. You shall comply with all requirements of the **Notice of Exemption** as set forth in **Exhibit L**.

**6-7.1 General.** To the "WHITEBOOK", item 3, ADD the following:

- d) 30 Days for full depth asphalt final mill and resurfacing work required per SDG-107.
- e) Where shutdowns of 16 inch and larger pipes are required, there is a shutdown moratorium from May until October. Plan and schedule Work accordingly. No additional payment or Working Days will be granted for delays due to the moratorium.

**6-8.3 Warranty.** To the "WHITEBOOK", item 1, DELETE in its entirety and SUBSTITUTE with the following:

1. Warranty and repair all defective materials and workmanship for a period of 1 year. This call back warranty period shall start on the date that the Work was accepted by the City. Additionally, you shall warranty the Work against all latent and patent defects for a period of 10 years.

**SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR**

**7-3 INSURANCE.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

**7-3 INSURANCE.**

1. The insurance provisions herein shall not be construed to limit your indemnity obligations contained in the Contract.

**7-3.1 Policies and Procedures.**

1. You shall procure the insurance described below, at its sole cost and expense, to provide coverage against claims for loss including injuries to persons or damage to property, which may arise out of or in connection with the performance of the Work by you, your agents, representatives, officers, employees or Subcontractors.
2. Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.

3. You shall maintain this insurance for the duration of this Contract and at all times thereafter when you are correcting, removing, or replacing Work in accordance with this Contract. Your liabilities under the Contract, e.g., your indemnity obligations, is not deemed limited to the insurance coverage required by this Contract.
4. The payment for insurance shall be included in the Contract Price as bid by you. Except as specifically agreed to by the City in writing, you are not entitled to any additional payment. Do not begin any Work under this Contract until you have provided and the City has approved all required insurance.
5. Policies of insurance shall provide that the City is entitled to 30 Days (10 Days for cancellation due to non-payment of premium) prior written notice of cancellation or non-renewal of the policy. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

## **7-3.2 Types of Insurance.**

### **7-3.2.1 Commercial General Liability Insurance.**

1. Commercial General Liability Insurance shall be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad.
2. The policy shall cover liability arising from premises and operations, XCU (explosions, underground, and collapse), independent contractors, products/completed operations, personal injury and advertising injury, bodily injury, property damage, and liability assumed under an insured's contract (including the tort liability of another assumed in a business contract).
3. There shall be no endorsement or modification limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. You shall maintain the same or equivalent insurance for at least 10 years following completion of the Work.
4. All costs of defense shall be outside the policy limits. Policy coverage shall be in liability limits of not less than the following:

<u>General Annual Aggregate Limit</u>	<u>Limits of Liability</u>
Other than Products/Completed Operations	\$2,000,000
Products/Completed Operations Aggregate Limit	\$2,000,000
Personal Injury Limit	\$1,000,000

Each Occurrence

\$1,000,000

**7-3.2.2 Commercial Automobile Liability Insurance.**

1. You shall provide a policy or policies of Commercial Automobile Liability Insurance written on the current version of the ISO form CA 00 01 12 90 or later version or equivalent form providing coverage at least as broad in the amount of \$1,000,000 combined single limit per accident, covering bodily injury and property damage for owned, non-owned, and hired automobiles ("Any Auto").
2. All costs of defense shall be outside the limits of the policy.

**7-3.3 Rating Requirements.** Except for the State Compensation Insurance Fund, all insurance required by this Contract as described herein shall be carried only by responsible insurance companies with a rating of, or equivalent to, at least "A-, VI" by A.M. Best Company, that are authorized by the California Insurance Commissioner to do business in the State, and that have been approved by the City.

**7-3.3.1 Non-Admitted Carriers.** The City will accept insurance provided by non-admitted, "surplus lines" carriers only if the carrier is authorized to do business in the State and is included on the List of Approved Surplus Lines Insurers (LASLI list).

All policies of insurance carried by non-admitted carriers shall be subject to all of the requirements for policies of insurance provided by admitted carriers described herein.

**7-3.4 Evidence of Insurance.** Furnish to the City documents e.g., certificates of insurance and endorsements evidencing the insurance required herein, and furnish renewal documentation prior to expiration of this insurance. Each required document shall be signed by the insurer or a person authorized by the insurer to bind coverage on its behalf. We reserve the right to require complete, certified copies of all insurance policies required herein.

**7-3.5 Policy Endorsements.**

**7-3.5.1 Commercial General Liability Insurance.**

**7-3.5.1.1 Additional Insured.**

- a) You shall provide at your expense policy endorsement written on the current version of the ISO Occurrence form CG 20 10 11 85 or an equivalent form providing coverage at least as broad.
- b) To the fullest extent allowed by law e.g., California Insurance Code §11580.04, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured.

- c) The additional insured coverage for projects for which the Engineer's Estimate is \$1,000,000 or more shall include liability arising out of:
  - a) Ongoing operations performed by you or on your behalf,
  - b) your products,
  - c) your Work, e.g., your completed operations performed by you or on your behalf, or
  - d) premises owned, leased, controlled, or used by you.
- d) The additional insured coverage for projects for which the Engineer's Estimate is less than \$1,000,000 shall include liability arising out of:
  - a) Ongoing operations performed by you or on your behalf,
  - b) your products, or
  - c) premises owned, leased, controlled, or used by you.

**7-3.5.1.2 Primary and Non-Contributory Coverage.** The policy shall be endorsed to provide that the coverage with respect to operations, including the completed operations, if appropriate, of the Named Insured is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives. Further, it shall provide that any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.

**7-3.5.1.3 Project General Aggregate Limit.** The policy or policies shall be endorsed to provide a Designated Construction Project General Aggregate Limit that will apply only to the Work. Only claims payments which arise from the Work shall reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project General Aggregate Limit shall be in addition to the aggregate limit provided for the products-completed operations hazard.

## **7-3.5.2 Commercial Automobile Liability Insurance.**

**7-3.5.2.1 Additional Insured.** Unless the policy or policies of Commercial Auto Liability Insurance are written on an ISO form CA 00 01 12 90 or a later version of this form or equivalent form providing coverage at least as broad, the policy shall be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured, with respect to liability arising out of automobiles owned, leased, hired or borrowed by you or on your behalf. This endorsement is limited to the obligations permitted by California Insurance Code §11580.04.

**7-3.6 Deductibles and Self-Insured Retentions.** You shall pay for all deductibles and self-insured retentions. You shall disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

- 7-3.7      Reservation of Rights.** The City reserves the right, from time to time, to review your insurance coverage, limits, deductibles and self-insured retentions to determine if they are acceptable to the City. The City will reimburse you, without overhead, profit, or any other markup, for the cost of additional premium for any coverage requested by the Engineer but not required by this Contract.
- 7-3.8      Notice of Changes to Insurance.** You shall notify the City 30 Days prior to any material change to the policies of insurance provided under this Contract.
- 7-3.9      Excess Insurance.** Policies providing excess coverage shall follow the form of the primary policy or policies e.g., all endorsements.
- 7-3.10     Architects and Engineers Professional Insurance (Errors and Omissions Insurance).**
1.      For Contracts with required engineering services (e.g., Design-Build, preparation of engineered Traffic Control Plans (TCP), and etc) by you, you shall keep or require all of your employees or Subcontractors, who provide professional engineering services under this contract, Professional Liability coverage with a limit of **\$1,000,000** per claim and **\$2,000,000** annual aggregate in full force and effect.
  2.      You shall ensure the following:
    - a)      The policy retroactive date is on or before the date of commencement of the Project.
    - b)      The policy will be maintained in force for a period of 3 years after completion of the Project or termination of this Contract, whichever occurs last. You agree that for the time period specified above, there will be no changes or endorsements to the policy that affect the specified coverage.
  3.      If professional engineering services are to be provided solely by the Subcontractor, you shall:
    - a)      Certify this to the City in writing and
    - b)      Agree in writing to require the Subcontractor to procure Professional Liability coverage in accordance with the requirements set forth above.
- 7-4                NOT USED.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

**7-4 WORKERS' COMPENSATION INSURANCE AND EMPLOYERS LIABILITY INSURANCE.**

1. In accordance with the provisions of §3700 of the California Labor Code, you shall provide at your expense Workers' Compensation Insurance and Employers Liability Insurance to protect you against all claims under applicable state workers compensation laws. The City, its elected officials, and employees will not be responsible for any claims in law or equity occasioned by your failure to comply with the requirements of this section.
2. Limits for this insurance shall be not less than the following:

<u>Workers' Compensation</u>	<u>Statutory Employers Liability</u>
Bodily Injury by Accident	\$1,000,000 each accident
Bodily Injury by Disease	\$1,000,000 each employee
Bodily Injury by Disease	\$1,000,000 policy limit

3. By signing and returning the Contract you certify that you are aware of the provisions of §3700 of the Labor Code which requires every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code and you shall comply with such provisions before commencing the Work as required by §1861 of the California Labor Code.

**7-4.1 Waiver of Subrogation.** The policy or policies shall be endorsed to provide that the insurer will waive all rights of subrogation against the City and its respective elected officials, officers, employees, agents, and representatives for losses paid under the terms of the policy or policies and which arise from Work performed by the Named Insured for the City.

**ADD:**

**7-6 THE CONTRACTORS REPRESENTATIVE.** To the "GREENBOOK", ADD the following:

1. Both the representative and alternative representative shall be employees of the Contractor and shall not be assigned to a Subcontractor unless otherwise approved by the City in writing.

**7-8.6 Water Pollution Control.** To the "WHITEBOOK", ADD the following:

6. Based on a preliminary assessment by the City, this Contract is subject to WPCP.

**7-13.4 Contractor Standards and Pledge of Compliance.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. The Contract is subject to City's Municipal Code §22.3004 as amended 10/29/13 by ordinance O-20316.

2. You shall complete a Pledge of Compliance attesting under penalty of perjury that you complied with the requirements of this section.
3. You shall ensure that all Subcontractors complete a Pledge of Compliance attesting under penalty of perjury that they complied with the requirements of this section.
4. You may access the Pledge of Compliance at:

[http://www.sandiego.gov/purchasing/pdf/contractor\\_standards\\_questionnaire.pdf](http://www.sandiego.gov/purchasing/pdf/contractor_standards_questionnaire.pdf)

5. You shall require in each subcontract that the Subcontractor shall abide by the provisions of the City's Municipal Code §22.3004. A sample provision is as follows:

"Compliance with San Diego Municipal Code §22.3004: The Subcontractor acknowledges that it is familiar with the requirements of San Diego Municipal Code §22.3004 ("Contractor Standards"), and agrees to comply with requirements of that section. The Subcontractor further agrees to complete the Pledge of Compliance, incorporated herein by reference."

**ADD:**

**7-13.8**

**Equal Pay Ordinance.**

1. You shall comply with the Equal Pay Ordinance (EPO) codified in the San Diego Municipal Code (SDMC) in section 22.4801 through 22.4809, unless compliance is not required based on an exception listed in SDMC section 22.4804.
2. You shall require all of your Subcontractors to certify compliance with the EPO in their written subcontracts.
3. You shall post a notice informing your employees of their rights under the EPO in the workplace or job site.
4. By signing this Contract with the City of San Diego, you acknowledge the EPO requirements and pledge ongoing compliance with the requirements of SDMC Division 48, section 22.4801 et seq., throughout the duration of this Contract.

**7-20**

**ELECTRONIC COMMUNICATION.** To the "WHITEBOOK", ADD the following:

2. Virtual Project Manager shall be used on this Contract.

**7-21.1**

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

3. During the construction phase of projects, the minimum waste management reduction goal is 90% of the inert material (a material not subject to decomposition such as concrete, asphalt, brick, rock, block, dirt, metal, glass, and etc.) and 65% of the remaining project waste. You shall



provide appropriate documentation, including a Waste Management Form attached as an exhibit, and evidence of recycling and reuse of materials to meet the waste reduction goals specified.

## SECTION 9 - MEASUREMENT AND PAYMENT

### ADD:

#### 9-3.7 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.

## SECTION 217 – BEDDING AND BACKFILL MATERIALS

#### 217-2.2 Stones, Boulders, and Broken Concrete. To the "GREENBOOK", Table 217-2.2, DELETE in its entirety and SUBSTITUTE with the following:

**TABLE 217-2.2**

Zone	Zone Limits	Maximum Size (greatest dimension)	Backfill Requirements in Addition to 217-2.1
Street or Surface Zone	From ground surface to 12" (300 mm) below pavement subgrade or ground surface	2.5" (63 mm)	As required by the Plans or Special Provisions.
Street or Surface Zone Backfill of Tunnels beneath Concrete Flatwork		Sand	Sand equivalent of not less than 30.
Trench Zone	From 12" (300 mm) below pavement subgrade or ground surface to 12" (300 mm) above top of pipe or box	6" (150 mm)	
Deep Trench Zone (Trenches 3' (0.9 m) wide or wider)	From 60" (1.5 m) below finished surface to 12" (300 mm) above top of pipe or box	Rocks up to 12" (300 mm) excavated from trench may be placed as backfill	
Pipe Zone	From 12" (300 mm) above top of pipe or box to 6" (150 mm) below bottom of pipe or box exterior	2.5" (63 mm)	Sand equivalent of not less than 30 or a coefficient of permeability greater than 1-½ inches/hour (35 mm per hour).
Overexcavation	Backfill more than 6" (150 mm) below bottom of pipe or box exterior	6" (150 mm)	Sand equivalent of not less than 30 or a coefficient of permeability greater than 1-½ inches/hour (35 mm per hour). Trench backfill slurry (100-E-100) per 201-1 may also be used.

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

5. The Contractor will 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.

**EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP) SECTION A – GENERAL REQUIREMENTS**

**4.1 Nondiscrimination in Contracting Ordinance.** To the "WHITEBOOK", subsection 4.1.1, paragraph (2), sentence (1), DELETE in its entirety and SUBSTITUTE with the following:

You shall not discriminate on the basis of race, gender, gender expression, gender identity, religion, national origin, ethnicity, sexual orientation, age, or disability in the solicitation, selection, hiring, or treatment of subcontractors, vendors, or suppliers.

**END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)**

## **EXHIBIT J**

### **PROPOSAL**

## EXHIBIT J

### PROPOSAL

To the City of San Diego:

In accordance with the RFQ, the Contractors proposal, the specifications and requirements on file with the City Clerk and the Contract documents, and subject to all provisions of the Charter and Ordinances of the City of San Diego and applicable laws and regulations of the United States and the State of California, the undersigned hereby proposes to furnish to the City of San Diego, complete at the prices stated herein, the items or services hereinafter mentioned. The undersigned further warrants that this bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

The undersigned bidder(s) further warrants that bidder(s) has thoroughly examined and understands the entire Contract Documents (plans and specifications) and the Bidding Documents therefore, and that by submitting said Bidding Documents as its bid proposal, bidder(s) acknowledges and is bound by the entire Contract Documents, including any addenda issued thereto, as such Contract Documents incorporated by reference in the Bidding Documents.

**IF A SOLE OWNER OR SOLE CONTRACTOR SIGN HERE:**

- (1) Name under which business is conducted \_\_\_\_\_
- (2) Signature (Given and surname) of proprietor \_\_\_\_\_
- (3) Place of Business (Street & Number) \_\_\_\_\_
- (4) City and State \_\_\_\_\_ Zip Code \_\_\_\_\_
- (5) Telephone No. \_\_\_\_\_ Facsimile No. \_\_\_\_\_

**IF A PARTNERSHIP, SIGN HERE:**

(1) Name under which business is conducted \_\_\_\_\_

(2) Name of each member of partnership, indicate character of each partner, general or special (limited):

\_\_\_\_\_  
\_\_\_\_\_

(3) Signature (Note: Signature must be made by a general partner)

\_\_\_\_\_

Full Name and Character of partner

\_\_\_\_\_  
\_\_\_\_\_

(4) Place of Business (Street & Number) \_\_\_\_\_

(5) City and State \_\_\_\_\_ Zip Code \_\_\_\_\_

(6) Telephone No. \_\_\_\_\_ Facsimile No. \_\_\_\_\_

**IF A CORPORATION, SIGN HERE:**

(1) Name under which business is conducted \_\_\_\_\_

(2) Signature, with official title of officer authorized to sign for the corporation:

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Title of Officer)

(Impress Corporate Seal  
Here)

(3) Incorporated under the laws of the State of \_\_\_\_\_

(4) Place of Business (Street & Number) \_\_\_\_\_

(5) City and State \_\_\_\_\_ Zip Code \_\_\_\_\_

(6) Telephone No. \_\_\_\_\_ Facsimile No. \_\_\_\_\_

**THE FOLLOWING SECTIONS MUST BE FILLED IN BY ALL PROPOSERS:**

In accordance with the "GENERAL" instructions, the bidder holds a California State Contractor's license for the following classification(s) to perform the work described in these specifications:

LICENSE CLASSIFICATION \_\_\_\_\_

LICENSE NO. \_\_\_\_\_ EXPIRES \_\_\_\_\_, \_\_\_\_\_

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION NUMBER: \_\_\_\_\_

This license classification must also be shown on the front of the bid envelope. Failure to show license classification on the bid envelope may cause return of the bid unopened.

TAX IDENTIFICATION NUMBER (TIN): \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

**THIS PROPOSAL MUST BE NOTARIZED BELOW:**

I certify, under penalty of perjury, that the representations made herein regarding my State Contractor's license number, classification and expiration date are true and correct.

Signature \_\_\_\_\_ Title \_\_\_\_\_

SUBSCRIBED AND SWORN TO BEFORE ME, THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, \_\_\_\_\_.

Notary Public in and for the County of \_\_\_\_\_, State of \_\_\_\_\_

\_\_\_\_\_  
(NOTARIAL SEAL)

**EXHIBIT K**

**CONTRACTOR'S COMPENSATION RATE SCHEDULE**

## **EXHIBIT K**

### **CONTRACTOR'S COMPENSATION RATE SCHEDULE**

The following Compensation Rate Schedule shall constitute the maximum rates (e.g., labor, direct costs, etc.) for Extra Work, if any, provided by the Contractor during the term of this agreement.

These rates are being specified as the Contractor's standard established rates for calculating labor costs without allowance for overhead and profits. For markup provisions and allowable charges refer to 3-2.4, "Agreed Prices."



**City of San Diego Emergency Project  
Revelstoke Way Storm Drain Repairs**

**COMPENSATION RATE SCHEDULE**

<b>ORION CONSTRUCTION</b>			
<b>Title/Classification</b>	<b>Standard Rate (\$)/hour</b>	<b>Overtime Rate (\$)/hour</b>	<b>Double-time Rate (\$)/Hour</b>
Superintendent	125	187	250
Foreman	110	165	220
Operator Group 8	103	154	206
Group 1 Oiler/Grade Checker	94	141	188
Truck Driver	79	118	158
Laborer/Pipelayer	81	121	162
Carpenter	86	129	172
Mechanic	91	136	182
Project Manager	175	N/A	N/A
Project Staff Engineer	110	N/A	N/A
Engineering Project Director	220	N/A	N/A
Engineer (PE) QA/QC	190	N/A	N/A
PM/Design Engineer	190	N/A	N/A
Sr. CADD Tech	125	N/A	N/A
CADD Tech	100	N/A	N/A
Admin/Office	85	N/A	N/A
Environmental Engineer/SWPPP Coordinator	175	N/A	N/A

**City of San Diego Emergency Project  
Revelstoke Way Storm Drain Emergency Repairs**

**EQUIPMENT RATE SCHEDULE**

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SEE ATTACHED SHEETS FOR INDIVIDUAL RATES FOR EACH PIECE OF EQUIPMENT

1. This does not include all equipment needed to complete project. This is a baseline for equipment that will be used throughout the course of construction.
2. Rented Equipment will be invoiced at the rented rate plus applicable mark up
3. Subcontractor Equipment to be invoiced at actual rental/invoiced costs for each piece of equipment provided to complete their work.
4. Wear parts, some consumable items, and fuel to be invoiced separately in some cases.

# Labor Surcharge and Equipment Rental Rates

(Cost of Equipment Ownership)



Effective April 1, 2017 through March 31, 2018

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**USER'S GUIDE**  
**FOR LABOR SURCHARGE AND EQUIPMENT RENTAL RATES**  
**April 1, 2017 - March 31, 2018**

Equipment Rental Rates are available on the Internet at:

**<http://www.dot.ca.gov/hq/construc/equipmnt.html>**

Miscellaneous Equipment Rental Rates are available on the Internet at:

**<http://www.dot.ca.gov/hq/construc/misceqrr/index.htm>**

The miscellaneous listing is updated daily.

## **Changes**

**Books are no longer available in hard copy and should be downloaded from the internet and printed.**

Changes to the equipment rates in the April 1, 2017 book are the result of: 1) fuel costs decreased; 2) interest rates decreased; 3) Producers' Price Index increased; 4) no change in sales tax; and 5) no change in freight (F.O.B.) rates.

## **Labor Surcharge**

The labor surcharge compensates the contractor for statutory payroll items stipulated by various governmental agencies. The six items included are worker's compensation, social security, Medicare, Federal unemployment insurance, State unemployment insurance, and State training taxes. The general rate is an average of the job classifications common to Caltrans projects. The labor surcharges in the April 1, 2017 book are the result of decreases in worker's compensation rates. The rates were derived from using the pure premium rate approved by the Insurance Commissioner effective January 1, 2017 and increasing it by the historical statewide average expense. In the calculation of the labor surcharge for overtime work, the worker's compensation is not included on the premium portion of overtime, as provided by worker's compensation regulations.

The surcharge percentage to be applied to the actual wages paid as provided in Section 9-1.04B [9-1.03A(1b)] of the *Standard Specifications* will be **11 percent for regular time (RT) and 11 percent for overtime (OT)**.

Exceptions to the general rate are listed below. These classifications were chosen because of high worker's compensation insurance costs. Forward questions, regarding worker's compensation rating and proper labor surcharge usage, to the rental rate personnel in the Division of Construction.

## EXCEPTIONS

<b><u>Type of Work Performed</u></b>	<b><u>Labor Surcharge Percent</u></b>	
	<b>RT</b>	<b>OT</b>
Concrete Construction - Bridge .....	<b>11</b>	<b>11</b>
Drilling .....	<b>14</b>	<b>13</b>
Fence & Guardrail Construction .....	<b>13</b>	<b>12</b>
Erection of structural metal for metal bridges, excluding sign bridge .....	<b>14</b>	<b>13</b>
Landscape Gardener .....	<b>12</b>	<b>11</b>
Mobil Crane & Hoist Service .....	<b>15</b>	<b>14</b>
Painting Steel Structures or Bridges .....	<b>15</b>	<b>14</b>
Pile Driving, not including drilled, cast-in-place concrete piles .....	<b>16</b>	<b>15</b>
Sign Erection or Repair .....	<b>17</b>	<b>15</b>
Wrecking & Demolition .....	<b>13</b>	<b>12</b>

An appropriate labor surcharge will be established by the Division of Construction for work that is determined by the resident engineer to be covered by Longshoreman and Harbor Worker's Act.



## Background

By the authority described in Section 9-1.04 [9-1.03A] of the *Standard Specifications*, compensation for work paid by force account is determined to be the total of the direct equipment costs (rental rate) plus a 15 percent markup for all overhead not included as direct costs. The direct costs include fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs and maintenance, depreciation, storage, cost of facilities capital, overhaul and all incidentals. The labor costs required to provide the above listed items are also included. The operator cost is not included in the equipment rate.

The calculated rate represents the cost of owning and operating the equipment, which is likely to be lower than the rate charged by a rental yard. The rental yard rate may include additional overhead and profit as well as a premium for short-term rentals. In certain situations, factors are applied to the calculated rates to provide ownership-only rates for delay situations or operating-only rates for overtime situations. The rates are calculated using factors for the direct cost items described above. The factors represent an average and are applied to all makes and models of equipment within the class. **All rates are hourly, unless stated otherwise.**

## Overtime and Multiple Shifts

Certain equipment costs are fixed on an annual basis, no matter how many hours are worked. Once an estimate of the costs and hours of use is made, a rate can be determined. When more than the estimated number of hours are worked (Overtime or Multiple Shift), a duplication of payment occurs on the fixed cost portion of the equipment rate.

In order to avoid this duplication, Caltrans uses a reduced rate for the Overtime or Multiple Shift situations. The definition of Overtime or Multiple Shift periods is:

**Overtime hours occur after the equipment has worked at force account, eight hours per day (or after the daily equivalent of forty hours per week for special work schedules - 4/10 or 9/80). Multiple shift hours will be paid at the same rate as overtime hours.**

The hours shown on the Daily Extra Work Bill will determine when the Overtime and Multiple Shift is to be used. **When the hours worked on force account are eight or less, straight time rates will be used.** When the hours worked on force account are more than eight, Overtime and Multiple Shifts rates will be used. Saturday, Sunday or holiday work will be paid at the overtime rate except in those cases where these days are considered working days in the special provisions.

Be advised the computed overtime rates are no longer rounded and now equal the product of the straight time rate and overtime factor. The Overtime and Multiple Shift Factors are recalculated annually to reflect changes in the operating costs.

## Delays

As described in Section 8-1.07C [8-1.09] of the *Standard Specifications*, the Delay Factor may be applied to the equipment rental rate. The Delay Factor may be the basis for compensation for idle equipment time on an excusable delay. The factor has been calculated to include the ownership costs without including operating costs. The Delay Factor recovers all the contractor's non-operating costs in an eight hour day. If payment is made for equipment on an excusable delay, it is limited to eight hours per day or forty hours per week maximum.

The NONOP class for non-operated items and the TRAFIC class for traffic safety devices have been separated from traditional "rolling stock" equipment when calculating the Delay Factor. These classes are comprised of items whose depreciable lives are related to the number of uses per year, rather than the number of hours per year. Accordingly, the reasonable compensation for the contractor's actual loss has been estimated to equal the cost of facilities capital. **It should be recognized that these items must be out of service before the Delay Factor is applied. For example, if work behind K-rail is delayed, the K-rail should be paid straight time until it is no longer controlling traffic.**

Any use of this factor must have the prior approval of the resident engineer. The Delay Factor is recalculated annually to reflect changes in the operating costs.

## Use of Daily Extra Work Bill

Identification codes and rates are intended to be used with the Department's Internet change order billing system. The class is abbreviated using a 5 digit alpha-code, the make (manufacturer), a 4 digit alpha-code, and the code a 7 digit alpha-numeric code. All three codes must be used to define the equipment when using the automated pay system. Since the majority of items are described by per hour rates, each line has an entry for hours with an allowable maximum of 24. Special items with other than hourly rates should be appropriately checked and then entered in the Regular Hours column. For example, 50 Traffic Cones used 3 days (converts to 1.5, 100-cone-days) requires 1.5 be entered in the Regular Hours column. Note that any entry in the Delay Factor column will automatically apply the Delay Factor to every equipment entry on the current report.

Whenever an identification code cannot be found or the rate for a particular date of work performed is not available, updated information should be requested from the resident engineer. It is the resident engineer's responsibility to establish rates for equipment not found in the *Labor Surcharge and Equipment Rental Rates* publication. Support for this determination is available from both District and Headquarters Construction Offices. **Rates are regularly superseded during contract periods, so avoid the use of old publications or expired rates.**

The equipment is presented with a standard configuration capable of performing work commonly encountered on Caltrans projects. Special attachments or accessories are described under the classification heading in the *Labor Surcharge and Equipment Rental Rates* publication. Attachments other than those described by these remarks will be paid only upon direction of the resident engineer.

# EQUIPMENT RENTAL RATE

NOTE--THE FOLLOWING RATES ARE IN EFFECT FROM APRIL 1, 2017 THROUGH MARCH 31, 2018

## ATTACHMENTS

TRACTOR ATTACHMENTS -including power control units and accessories necessary to provide a functional attachment. Dozer blades are included in the standard configuration for both crawler and heavy, rubber tire tractors.

Rippers are listed from R1 to R8 and Winches for logging or towing are listed from S1 to S5. Equipment model groups are as follows:

1. Case 300 Thru 800 Series, Cat D-2 thru D-4, Deere 400 & 450, Dresser TD-7, TD-8 and TD-9, Fiat-Allis FD-5 Thru FD-7, Komatsu D21E Thru D37P, Liebherr PR711 & PR721.
2. Case 1150, Cat D-5, Deere 750, Dresser TD-12, Fiat-Allis FD9 & 10, Komatsu D58P, Liebherr PR731.
3. Case 1450 and 1550, Cat D-6, Deere 850, Dresser TD-15, Komatsu D63PE Thru D68P, Liebherr PR741.
4. Cat D-7 & 814, Dresser TD-20, Fiat-Allis 14 & FD14, Komatsu D83P, Terex 82-30
5. Cat D-8 & 824, Dresser TD-25, Fiat-Allis FD20 Komatsu D135A, Terex 82-40 Michigan 280, Raygo CHD 17 & CD-500.
6. Cat D-9 & 834, Fiat-Allis FD30, Raygo CHD 24 & CD 800.
7. Cat D-10, Dresser TD-40, Fiat-Allis FD40, Komatsu 375, Michigan 380, Raygo CDH 30.
8. Cat D-11, Fiat-Allis FD50, Komatsu 475

Model	Code	Rate
Clam action bucket 1 CY & Less	<b>C1</b>	\$4.09
Clam action Over 1 CY to 2 CY	<b>C2</b>	\$7.20
Clam action Over 2 CY to 3.5 CY	<b>C3</b>	\$10.42
Clam action Over 3.5 CY to 5 CY	<b>C4</b>	\$14.86
Clam action bucket Over 5 CY	<b>C5</b>	\$20.54
Ripper on No. 1 models	<b>R1</b>	\$2.46
Ripper on No. 2 models	<b>R2</b>	\$3.22
Ripper on No. 3 models	<b>R3</b>	\$5.37
Ripper on No. 4 models	<b>R4</b>	\$6.08
Ripper on No. 5 models	<b>R5</b>	\$9.98
Ripper on No. 6 models	<b>R6</b>	\$15.78
Ripper on No. 7 models	<b>R7</b>	\$18.30
Ripper on No. 8 models	<b>R8</b>	\$30.47
Winch on No. 1 models	<b>S1</b>	\$2.92
Winch on No. 2 models	<b>S2</b>	\$4.35
Winch on No. 3 models	<b>S3</b>	\$5.77
Winch on No. 4 models	<b>S4</b>	\$7.40
Winch on No. 5 models	<b>S5</b>	\$12.96
Lift gate	<b>TG</b>	\$0.84
Pump, water truck only	<b>TP</b>	\$5.78
Winch, truck	<b>TW</b>	\$0.31
Gas welding hose per 15.2 m (50 lf)	<b>WH</b>	\$0.02
Elec welding lead per 30.5 m (100 lf)	<b>WL</b>	\$0.18

## AIR COMPRESSOR

[ AIRCP ]

**DELAY FACTOR = 0.17**

**OVERTIME FACTOR = 0.85**

All types of self contained units, regardless of power (gas, diesel and lpg) or type of compression (reciprocating, screw and vane). The listed rates include 15.2 meters (50 lineal feet) of hose, all hose whips, fittings, couplings and any compressor attachments. Listed in accordance with mfr's rated capacity in liters per second (cubic feet per minute) at 7 bar (100 psi).

### PORTABLE

[ PORT ]

OVER	TO	Code	Rate
0	19 (40)	<b>000-004</b>	\$3.75
19 (40)	76 (160)	<b>004-016</b>	\$13.98
76 (160)	118 (250)	<b>016-025</b>	\$15.48
118 (250)	212 (450)	<b>025-045</b>	\$27.71
212 (450)	354 (750)	<b>045-075</b>	\$45.06
354 (750)	566 (1200)	<b>075-120</b>	\$67.23
566 (1200)	708 (1500)	<b>120-150</b>	\$86.90

## AIR DRILLS, CRAWLER

[ AIRDL ]

**DELAY FACTOR = 0.48**

**OVERTIME FACTOR = 0.56**

All types, pneumatically propelled, including attachments. Expendable carbon drill steel, bits and shanks shall be paid by separate invoice. Rated in accordance with the cylinder bore diameter in millimeters(inches).

### CRAWLER DRILLS

[ CLR ]

OVER	TO	Code	Rate
0	100 (4)	<b>0-4</b>	\$25.28
100 (4)	& Over	<b>5</b>	\$25.87

## AIR TOOLS

[ AIRTO ]

**DELAY FACTOR = 0.61**

**OVERTIME FACTOR = 0.42**

All types including paving breakers, clay spades and diggers, sinker rock drills, trench diggers, sheeting/spike drivers, backfill tampers and hand held grinding tools. Expendable drill steel, bits and breakers points, grinding wheels and shanks shall be paid by separate invoice. Rated by tool weight in kilograms (pounds), determined in accordance with the mfr's specifications.

### AIR TOOLS

[ ATOL ]

OVER	TO	Code	Rate
0	4.5 (10)	<b>0-10</b>	\$0.42
4.5 (10)	9.1 (20)	<b>10-20</b>	\$0.46
9.1 (20)	13.6 (30)	<b>20-30</b>	\$0.83
13.6 (30)	18.1 (40)	<b>30-40</b>	\$0.97
18.1 (40)	27.2 (60)	<b>40-60</b>	\$1.05
27.2 (60)	& Over	<b>60</b>	\$1.48

# **ASPHALT DIKE & SHOULDER PAVERS [ ASDSP ]**

**DELAY FACTOR = 0.13      OVERTIME FACTOR = 0.90**

Includes all attachments, accessories and automatic grade and line control.

## **A.C. DIKE COMPANY [ ACDC ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
No. 1	<b>4050</b>	\$62.40
No. 2	<b>4052</b>	\$53.62
Nos. 43, 44	<b>4054</b>	\$74.37

## **ASPHALT PAVING COMPANY [ APCO ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
E-1	<b>4000</b>	\$88.85
E-2, E3	<b>4002</b>	\$158.45

## **BLAW-KNOX [ B-K ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
RW-35 / 38	<b>4075</b>	\$63.07
RW-85	<b>4077</b>	\$31.13
RW-95	<b>4079</b>	\$49.98
RW-100	<b>4081</b>	\$91.61
RW-195D	<b>4083</b>	\$125.22

## **DELTA [ DLTA ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
DC-1	<b>4095</b>	\$127.15

# **ASPHALT PAVERS [ ASPAV ]**

**DELAY FACTOR = 0.19      OVERTIME FACTOR = 0.85**

Includes all attachments, accessories and automatic grade and line control.

## **BARBER-GREENE [ B-G ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BG 220	<b>0805</b>	\$81.09
BG 225	<b>0810</b>	\$88.57
BG 240	<b>0815</b>	\$95.15
BG 245	<b>0820</b>	\$104.95
BG 260	<b>0825</b>	\$120.66
BG 260B	<b>0826</b>	\$159.30
BG 265	<b>0830</b>	\$138.08
RT 435, 4wd	<b>0905</b>	\$102.15
RT 445, 4wd	<b>0925</b>	\$100.53
RT 455, 4wd	<b>0945</b>	\$98.59
RT 455, 4wd, 10-20' screed	<b>0955</b>	\$102.35
RT 465, 4wd	<b>0965</b>	\$128.50
SA 125	<b>1419E</b>	\$77.16
SB 131	<b>1420</b>	\$95.68
SB 140	<b>1425</b>	\$117.15
SA 141	<b>1430</b>	\$80.06
SA 145	<b>1432</b>	\$102.65
SA 150	<b>1435</b>	\$128.74

SB 170 **1440** \$128.76

## **BLAW-KNOX [ B-K ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
PF-22	<b>1490</b>	\$36.07
PF-35	<b>1550</b>	\$63.74
PF-115	<b>1750</b>	\$105.57
PF-120H	<b>2010</b>	\$94.71
PF-171	<b>2090</b>	\$146.23
PF-180	<b>2100</b>	\$60.10
PF-180H	<b>2204</b>	\$153.14
PF-200	<b>2250</b>	\$150.57
PF-200, 18' screed	<b>2252</b>	\$153.47
PF-220	<b>2300</b>	\$151.92
PF-400A	<b>2350</b>	\$134.28
PF-500	<b>2404</b>	\$165.12
PF-500, 18' screed	<b>2406</b>	\$168.23
PF-510, 18' screed	<b>2407</b>	\$175.85
PF-3172, 18' screed	<b>2408</b>	\$146.42
PF-3200	<b>2410</b>	\$194.60
PF-5510	<b>2415</b>	\$203.91

## **CATERPILLAR [ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
AP-200	<b>2420</b>	\$38.38
AP-800	<b>2430</b>	\$102.92
AP-1050	<b>2431</b>	\$162.14
AP-1000	<b>2435</b>	\$159.01
AP-1000 4wd	<b>2436</b>	\$165.04
AP-1055B	<b>2438</b>	\$206.32
AP-1055D	<b>2438D</b>	\$257.24
AP-1200	<b>2440</b>	\$129.79

## **CEDAR RAPIDS [ CEDR ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BSF-2H	<b>2550</b>	\$83.21
BSF-3R	<b>2600</b>	\$89.74
CR-351	<b>2668A</b>	\$135.07
CR-351 4wd	<b>2668B</b>	\$139.87
CR-361R (RUBBER TRACK)	<b>2668R</b>	\$169.20
CR-431	<b>2669</b>	\$113.18
CR-551	<b>2670</b>	\$182.39
CR-461	<b>2672</b>	\$180.25
CR-561	<b>2674</b>	\$192.40

## **LAYTON [ LYTN ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
F-525	<b>2680</b>	\$20.07
D-550	<b>2682</b>	\$22.57
H-500B	<b>2684</b>	\$7.18

**ASPHALT WINDROW PICKUP MACHINE [ ASPWP ]****DELAY FACTOR = 0.09****OVERTIME FACTOR = 0.93**

Includes all attachments and accessories.

**ATHEY [ ATHY ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
7-11	<b>5000</b>	\$77.08

**BARBER-GREENE [ B-G ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BG-610H	<b>5100</b>	\$56.53

**CATERPILLAR [ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
WE-601B	<b>5200</b>	\$61.31

**CLARK'S WELDING COMPANY [ CLAR ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
500	<b>5300</b>	\$46.64
601	<b>5304</b>	\$41.14
Lincoln 660	<b>5305</b>	\$84.46

**C.M.I. [ CMI ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
851	<b>5405</b>	\$77.37

**AUGERS, CRAWLER MOUNTED [ AUGCL ]****DELAY FACTOR = 0.31****OVERTIME FACTOR = 0.72**

Includes carrier, attachments and accessories with up to 6.1 meters(20 feet) of auger flights. Consumable bits or tips to be paid by separate invoice.

**BAYSHORE [ BYSH ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
8400 TD limited access	<b>1500</b>	\$105.93

**TEXOMA [ TXMA ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TAURUS	<b>2010</b>	\$220.19
700CL	<b>2100</b>	\$126.27

**WATSON [ WATS ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
2000CM	<b>2500</b>	\$95.55
2500CM	<b>2505</b>	\$148.47
3000CM	<b>2510</b>	\$168.42
3100CM	<b>2515</b>	\$175.49

**AUGERS, HORIZONTAL [ AUGHZ ]****DELAY FACTOR = 0.30****OVERTIME FACTOR = 0.73**

Includes all attachments and accessories with up to 9.1 meters(30 feet) of auger flight, track and/or pipe pusher. Consumable bits or tips shall be paid by separate invoice. Power unit is included.

**AKKERMAN [ AKMN ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
360	<b>5000</b>	\$105.45
420 series 1250	<b>5002</b>	\$108.34

**AMERICAN AUGER [ AMAU ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
36-350	<b>5014</b>	\$25.74

**BORZALL [ BORZ ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
2300-10	<b>5040</b>	\$8.36
4265-10	<b>5042</b>	\$11.56

**DITCH WITCH [ D-W ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
2510	<b>5040</b>	\$41.84

**AUGERS, TRUCK MOUNTED [ AUGTK ]****DELAY FACTOR = 0.24****OVERTIME FACTOR = 0.78**

Includes truck/carrier, all attachments and accessories with up to 6.1 meters(20 feet) of auger flight. Consumable bits or tips shall be paid by separate invoice.

**ATLANTIC [ ATLN ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
LDH-80	<b>5000</b>	\$167.69
LDH-100	<b>5005</b>	\$138.84
LLDH-80	<b>5010</b>	\$175.26
LLDH-120	<b>5015</b>	\$188.26

**CALWELD [ CALW ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
150-A	<b>5050</b>	\$75.60
200	<b>5052</b>	\$97.75
4500LH	<b>5054</b>	\$165.37

**HUGHES [ HUGH ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
EZ 112	<b>5070</b>	\$57.08
EZ 120	<b>5071</b>	\$64.39
LDH-100	<b>5072</b>	\$107.78
LDH-80	<b>5074</b>	\$106.25
LLDH-120	<b>5076</b>	\$157.00
LLDH-80	<b>5078</b>	\$144.40

<b>P.D.E.</b>	<b>[ PDE ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
M -100	<b>5084</b>	\$34.63	
M-400 with hammer	<b>5085</b>	\$30.34	

<b>TEXOMA</b>	<b>[ TXMA ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
Economatic 115	<b>5087</b>	\$76.42	
Super Economatic	<b>5089</b>	\$75.74	
80	<b>5090</b>	\$123.29	
270	<b>5093</b>	\$78.61	
330	<b>5095</b>	\$81.79	
330 with hammer	<b>5095B</b>	\$94.72	
500 with hammer	<b>5096B</b>	\$96.56	
600	<b>5097</b>	\$103.09	
700	<b>5099</b>	\$165.50	

<b>WATSON</b>	<b>[ WATS ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
1000	<b>6010</b>	\$61.69	
2000	<b>6012</b>	\$130.66	
3000	<b>6014</b>	\$166.84	

### **BITUMINOUS DISTRIBUTORS [ BITDT ]**

**DELAY FACTOR = 0.16 OVERTIME FACTOR = 0.86**  
Includes all equipment for handling bituminous materials under pressure.  
Includes pumps, spray bars and other attachments and accessories.

<b>TRAILER MOUNTED</b>	<b>[ TLMD ]</b>		
Does not include towing unit. Capacity rated in liters (U.S. gallons).			
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	1136 (300)	<b>0-300</b>	\$6.03

<b>TRUCK MOUNTED</b>	<b>[ TRMD ]</b>		
Including truck. Capacity rated in liters (U.S. gallons).			
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	3028 (800)	<b>00-08</b>	\$52.89
3028 (800)	5299 (1400)	<b>08-14</b>	\$68.03
5299 (1400)	6831 (1800)	<b>14-18</b>	\$70.42
6831 (1800)	11355 (3000)	<b>18-30</b>	\$72.22
11355 (3000)	15140 (4000)	<b>30-40</b>	\$76.02

### **BROOMS & SWEEPING EQUIPMENT [ BRMSW ]**

**DELAY FACTOR = 0.17 OVERTIME FACTOR = 0.84**  
Includes all attachments and accessories with brooms of any type. Includes broom wear.

<b>BROOMS - MOUNTED &amp; TOWED</b>	<b>[ MTTD ]</b>		
Includes traction, PTO or engine driven.			
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
ALL	<b>ALL</b>	\$24.75	

<b>BROOMS - SELF PROPELLED</b>	<b>[ SFPR ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
ALL	<b>ALL</b>	\$36.49	

<b>SWEEPERS - SELF PROPELLED,</b>	<b>[ SWSP ]</b>		
<b>PICK UP</b>			
Rated in accordance with hopper size in cubic meters (cubic yards).			
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	2.3 (3.0)	<b>0-3</b>	\$84.73
2.3 (3.0)	4.6 (6.0)	<b>3-6</b>	\$113.60
4.6 (6.0)	6.9 (9.0)	<b>6-9</b>	\$131.08

### **BRUSH CHIPPING & SHREDDING MACHINES [ BRUCP ]**

**DELAY FACTOR = 0.09 OVERTIME FACTOR = 0.92**  
Includes all attachments, accessories and power unit. Rated in accordance with the cutter head width in millimeters(inches)

<b>BRUSH CHIP &amp; SHRED</b>	<b>[ BCSM ]</b>		
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	230 (9)	<b>00-09</b>	\$24.59
230 (9)	300 (12)	<b>09-12</b>	\$37.85
300 (12)	405 (16)	<b>12-16</b>	\$37.53

### **COMPACTORS, HAND GUIDED [ COMHG ]**

**DELAY FACTOR = 0.22 OVERTIME FACTOR = 0.80**  
Includes pan, vibrating plate, rammer and jumping jack type compactors(gas or diesel). Includes all attachments and accessories. Listed in accordance with the weight in kilograms(pounds)

<b>COMPACTORS</b>	<b>[ COMP ]</b>		
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	113 (250)	<b>0-250</b>	\$3.28
113 (250)	& Higher	<b>250</b>	\$8.26

### **CONCRETE MIXERS [ CONMX ]**

**DELAY FACTOR = 0.14 OVERTIME FACTOR = 0.88**

<b>STATIONARY OR PORTABLE</b>	<b>[ SORP ]</b>		
Rated by Mfr's capacity in cubic meters (sacks or cubic feet).			
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	0.10 (3.5)	<b>0-3.5</b>	\$1.72
0.10 (3.5)	0.17 (6.0)	<b>03.5-6</b>	\$2.55
0.17 (6.0)	0.31 (11)	<b>06-11</b>	\$3.29
0.31 (11)	0.45 (16)	<b>11-16</b>	\$4.69

<b>TRANSIT MIX</b>	<b>[ TRMX ]</b>		
PTO type, including carrier. Rated by Mfr's capacity in cubic meters (cubic yards).			
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
6.4 (9)	7.6 (10)	<b>09-10</b>	\$124.34
7.6 (10)	9.2 (12)	<b>10-12</b>	\$122.43

**CONCRETE PUMPS****[ CONPM ]****DELAY FACTOR = 0.19****OVERTIME FACTOR = 0.83**

Includes truck/carrier or self powered trailer mounted units. Including attachments, accessories and hoses.

**ELBA****[ ELBA ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
K-8020	<b>1000</b>	\$77.87

**MAYCO****[ MACO ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
C-30HD	<b>1020</b>	\$14.21
LST-30/60S	<b>1024</b>	\$24.49

**SCHWING****[ SHWG ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BPA-1000	<b>1050</b>	\$30.58
WP-1000X	<b>1052</b>	\$40.25
WP-1250X	<b>1054</b>	\$51.87
900-1200 w/28 m boom	<b>1055</b>	\$83.59
900-1200 w/32 m boom	<b>1057</b>	\$90.29
BPL 1200 w/36 m boom	<b>1058</b>	\$100.12

**THOMSEN****[ THOM ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
A-3.75 w/ mixer	<b>1070</b>	\$19.05
A-7	<b>1072</b>	\$16.35
11 pump w/28 m boom	<b>1078</b>	\$95.77
12 pump w/32 m boom	<b>1082</b>	\$103.06
14 pump w/36 m boom	<b>1084</b>	\$150.83

**CONCRETE SLIPFORM PAVERS****[ CONSF ]****DELAY FACTOR = 0.21****OVERTIME FACTOR = 0.83**

Includes all attachments and accessories. Detached, independently powered finished bridges or spray/tyne machines are not included.

**C.M.I.****[ CMI ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
SF-250	<b>2002</b>	\$142.71
SF-350 series 2	<b>2004</b>	\$235.87
SF-550	<b>2006</b>	\$309.30

**GOMACO****[ GOMA ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
GP-2000	<b>2020</b>	\$144.04
GP-2500	<b>2022</b>	\$159.75
GP-3500	<b>2024</b>	\$230.63

**CONCRETE VIBRATORS****[ CONVB ]****DELAY FACTOR = 0.37****OVERTIME FACTOR = 0.65**

Includes all attachments and accessories. Includes vibrator motor but independent power, whether air or electric, shall be paid as a separate item.

**CONCRETE VIBRATORS****[ CVIB ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Each Vibrating Head	<b>EVHD</b>	\$0.90

**CURB EXTRUSION MACHINES****[ CRBEX ]****DELAY FACTOR = 0.24****OVERTIME FACTOR = 0.80**

Self propelled for asphalt or concrete curb and gutter section. Includes attachments, accessories and molds. Rated by Mfr's maximum width recommendations in millimeters (inches).

**CURB EXTRUSION MACHINE****[ CEM ]**

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	460 (18)	<b>0-18</b>	\$29.26
460 (18)	& Over	<b>18 PLUS</b>	\$84.34

**CONCRETE BARRIER SLIPFORM PAVERS****[ CRBSF ]****DELAY FACTOR = 0.22****OVERTIME FACTOR = 0.83**

Includes all attachments, accessories and barrier or curb molds.

**C.M.I.****[ CMI ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
SF-175	<b>3000</b>	\$106.58

**CURBMASTER****[ CURB ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
CMT-800	<b>3020</b>	\$67.46

**GOMACO****[ GOMA ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
GT-6000-(78&90)	<b>3040</b>	\$74.68
COMMANDER II	<b>3045</b>	\$86.41
COMMANDER III	<b>3050</b>	\$118.32

**MILLER FORMLESS****[ MILL ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
M-7500	<b>3063</b>	\$87.36
M-8100	<b>3065</b>	\$123.54
M-8800	<b>3067</b>	\$159.03

## ELECTRIC GENERATORS & LIGHT PLANTS [ ELGEN ]

**DELAY FACTOR = 0.15      OVERTIME FACTOR = 0.86**

Rates are for gas or diesel power and alternating or direct current.

### GENERATOR [ GEN ]

Rated in accordance with Mfr's output in kilowatts.

OVER	TO	Code	Rate
0	1	<b>000-001</b>	\$0.65
1	3	<b>001-003</b>	\$1.48
3	7.5	<b>003-008</b>	\$3.08
7.5	15	<b>008-015</b>	\$6.92
15	25	<b>015-025</b>	\$10.81
25	50	<b>025-050</b>	\$11.10
50	100	<b>050-100</b>	\$19.54
100	200	<b>100-200</b>	\$38.79
200	300	<b>200-300</b>	\$65.03
300	400	<b>300-400</b>	\$89.20
400	500	<b>400-500</b>	\$112.09

### LIGHTS [ LITE ]

Includes trailer, pole and generator.

Model	Code	Rate
2 Light Set	<b>2 LIGHT</b>	\$3.40
4 Light Set	<b>4 LIGHT</b>	\$7.20

## ELECTRIC POWERED HAND TOOLS [ ELTOL ]

**DELAY FACTOR = 0.61      OVERTIME FACTOR = 0.42**

Includes electric powered, hand held tools not listed elsewhere in this book.  
Expendable bits, blades, discs, wheels, etc. shall be paid by separate invoice.  
Rated in accordance with Mfr's suggested retail price.

### TOOLS [ TOOL ]

OVER	TO	Code	Rate
450	600	<b>045-060</b>	\$0.30
600	800	<b>060-080</b>	\$0.40
800	1000	<b>080-100</b>	\$0.50

## FORK LIFT TRUCKS [ FKLFT ]

**DELAY FACTOR = 0.25      OVERTIME FACTOR = 0.77**

Includes attachments and accessories. Listed in accordance with the Mfr's maximum rated capacity in kilograms(pounds).

### FORK LIFT TRUCKS [ FLT ]

OVER	TO	Code	Rate
454 (1000)	1814 (4000)	<b>010-040</b>	\$24.61
1814 (4000)	2722 (6000)	<b>040-060</b>	\$32.73
2722 (6000)	3629 (8000)	<b>060-080</b>	\$37.00
3629 (8000)	5443 (12000)	<b>080-120</b>	\$50.74
5443 (12000)	7258 (16000)	<b>120-160</b>	\$54.04
7258 (16000)	9072 (20000)	<b>160-200</b>	\$63.52
9072 (20000)	11340 (25000)	<b>200-250</b>	\$63.46

11340 (25000)	13608 (30000)	<b>250-300</b>	\$69.67
13608 (30000)	18144 (40000)	<b>300-400</b>	\$89.91
18144 (40000)	22680 (50000)	<b>400-500</b>	\$109.54
22680 (50000)	34020 (75000)	<b>500-750</b>	\$150.47

## GRADERS [ GRADR ]

**DELAY FACTOR = 0.14      OVERTIME FACTOR = 0.88**

Includes ripper and scarifier attachments and all accessories. Electronic blade control and specialty cutting tools shall be paid separately.

### BLADE-MOR [ BMOR ]

Model	Code	Rate
727	<b>2173</b>	\$20.72
747	<b>2178</b>	\$30.18

### CATERPILLAR [ CAT ]

Model	Code	Rate
120G 87V serial	<b>2685</b>	\$58.99
130G 74V serial	<b>2695</b>	\$65.65
12E 99E serial	<b>2710</b>	\$39.17
12F 73G serial	<b>2768</b>	\$59.27
12F 13K serial	<b>2826</b>	\$46.65
12F 89H serial	<b>2884</b>	\$47.14
12G 61M serial	<b>2890</b>	\$67.41
12H	<b>2895</b>	\$73.46
14E 72G serial	<b>3174</b>	\$61.50
14G	<b>3180</b>	\$100.56
14H	<b>3185</b>	\$111.44
140 14U serial	<b>3250</b>	\$62.53
140G 72V serial	<b>3260</b>	\$72.57
140H	<b>3265</b>	\$78.54
143H	<b>3267</b>	\$88.03
16 49G serial	<b>3290</b>	\$80.59
16 49G800 serial	<b>3348</b>	\$117.86
16 G93U serial	<b>3360</b>	\$140.19
16H	<b>3380</b>	\$150.02
160H	<b>3385</b>	\$92.04
163H	<b>3390</b>	\$97.66

### JOHN DEERE [ DEER ]

Model	Code	Rate
JD-570A	<b>3890</b>	\$38.64
JD-570B	<b>3892</b>	\$45.65
JD-670	<b>3900</b>	\$48.88
JD-670A	<b>3905</b>	\$54.89
JD-670CH	<b>3907</b>	\$73.36
JD-770	<b>3910</b>	\$55.57
JD-770A, 770A-H	<b>3915</b>	\$66.17
JD-770B	<b>3916</b>	\$73.43
JD-772CH	<b>3930</b>	\$89.24



**GALION****[ GALN ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
A-400E	<b>4940</b>	\$53.52
T-400A	<b>4980</b>	\$50.88
T-500C	<b>5150</b>	\$59.00
T-500L	<b>5204</b>	\$57.58
T-500M	<b>5210</b>	\$60.66

**KOMATSU****[ KOMA ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
GD 505A-2	<b>8980</b>	\$55.98
GD 515A-1	<b>8986</b>	\$59.00
GD 605A-2	<b>9000</b>	\$61.65
GD 615A-1	<b>9005</b>	\$68.86
GD 625A-1C	<b>9007</b>	\$91.26
GD 655A-2	<b>9010</b>	\$68.16

**HAMMERS, DEMOLITION & PILE****[ HAMMR ]****DELAY FACTOR = 0.25****OVERTIME FACTOR = 0.78**

Includes attachments, accessories and power unit. Does not include carrier.

**ABI****[ ABI ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
HVR-60	<b>0100</b>	\$32.11

**AMERICAN PILE DRIVING****[ APE ]****EQUIPMENT**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
150	<b>0010</b>	\$138.58
180	<b>0050</b>	\$186.65
200/500	<b>0060</b>	\$210.92
300 VIBRO	<b>0075</b>	\$231.46
400B VIBRO	<b>0085</b>	\$372.32

**ALLIED STEEL & TRACTOR****[ AS&T ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
800	<b>0300</b>	\$54.16
HYRAM 720	<b>0310</b>	\$5.88
HYRAM 725	<b>0320</b>	\$11.05
HYRAM 730	<b>0330</b>	\$13.47
HYRAM 740	<b>0340</b>	\$19.20
HYRAM 750	<b>0350</b>	\$21.33
HYRAM 77	<b>0360</b>	\$8.89
HYRAM 770	<b>0370</b>	\$21.68
HYRAM 780	<b>0380</b>	\$35.23
HYRAM 790	<b>0390</b>	\$46.23
HYRAM 88	<b>0400</b>	\$15.19

**DELMAG****[ DELM ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
D-12	<b>0500</b>	\$22.93
D-16	<b>0510</b>	\$32.30
D-22	<b>0520</b>	\$51.35
D-30	<b>0530</b>	\$37.81
D-30-32	<b>0540</b>	\$57.45
D-36-32	<b>0560</b>	\$74.92
D46-32	<b>0570</b>	\$87.77
D62-22	<b>0580</b>	\$144.24
D100-13	<b>0590</b>	\$226.33

**FOSTER****[ FOST ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
1700	<b>0600</b>	\$113.53
4030	<b>0630</b>	\$159.75
FNV-1800	<b>0660</b>	\$98.77
FNV-4150	<b>0693</b>	\$205.14

**HYDRAULIC POWER SYS****[ HPSI ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
150	<b>0420</b>	\$81.52
260	<b>0430</b>	\$128.88
300	<b>0440</b>	\$154.90

**I.C.E.****[ ICE ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
44-50	<b>0450</b>	\$195.42
216	<b>0460</b>	\$70.72
416L	<b>0470</b>	\$116.86
812	<b>0480</b>	\$181.26

**KENT****[ KENT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
KHB10G	<b>0700</b>	\$18.15
KHB 15G	<b>0710</b>	\$26.12
KHB 30G	<b>0750</b>	\$29.61
KHB 40G	<b>0760</b>	\$46.92

**NPK****[ NPK ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
4XE	<b>0795</b>	\$14.50
6XA	<b>0800</b>	\$12.88
H-10XB	<b>0810</b>	\$31.55
H-12X	<b>0815</b>	\$33.74
H-16X	<b>0820</b>	\$31.14
H-20X	<b>0840</b>	\$35.28
H4X,HXA	<b>0860</b>	\$10.80
H7X	<b>0880</b>	\$13.98

**OKADA****[ OKAD ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
UB-5	<b>0900</b>	\$7.63
UB-8	<b>0950</b>	\$14.83

**RAMMER****[ RAMR ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
S-84	<b>1000</b>	\$31.23
S-86	<b>1050</b>	\$33.64

**STANLEY****[ STAN ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
MB250	<b>1100</b>	\$5.80
MB2900	<b>1120</b>	\$23.34
MB4900	<b>1140</b>	\$41.49
MB550	<b>1160</b>	\$9.18
MB800	<b>1180</b>	\$13.68

**TELEDYNE****[ TELD ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
950X	<b>1190</b>	\$31.20
TB1025	<b>1195</b>	\$34.16
TB1425X	<b>1200</b>	\$33.93
TB2225X	<b>1220</b>	\$63.42
TB425	<b>1240</b>	\$13.45
TB825X	<b>1260</b>	\$23.30

**TRAMAC****[ TRMC ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BRH1100	<b>1300</b>	\$35.84
BRH125	<b>1310</b>	\$10.98
BRH250	<b>1320</b>	\$12.59
BRH400	<b>1330</b>	\$11.87
BRH620	<b>1340</b>	\$23.50
BRH750	<b>1350</b>	\$21.70
BRV950	<b>1360</b>	\$22.89

**TUNKER****[ TUNK ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
40.01	<b>1400</b>	\$154.98
40.05	<b>1450</b>	\$154.98
60.05	<b>1460</b>	\$129.73

**VULCAN****[ VULC ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
1	<b>1500</b>	\$25.92
010	<b>1520</b>	\$37.03
100C	<b>1540</b>	\$38.62
2300	<b>1560</b>	\$123.78
80C	<b>1580</b>	\$29.74

<b>HYDRAULIC CRANES &amp; EXCAVATORS, [ HCECL ]</b> <b>CRAWLER MOUNTED</b>
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**DELAY FACTOR = 0.21****OVERTIME FACTOR = 0.82**

Includes all attachments and accessories required for lifting or digging.  
Pavement breaker or compactor attachments are not included.

**BANTAM****[ BANT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
C 266	<b>0680</b>	\$71.99
C 366	<b>0690</b>	\$83.66
C 744	<b>1075</b>	\$55.44

**CASE****[ CASE ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
9030B	<b>0100B</b>	\$72.77
9040	<b>0110</b>	\$84.32
9060B	<b>0120B</b>	\$169.32
40E E-Boom	<b>1600</b>	\$66.09
40E Y-Boom	<b>1601</b>	\$66.48
50E	<b>1602</b>	\$83.52
125B	<b>1602H</b>	\$68.94
170C	<b>1602N</b>	\$95.08
220B	<b>1602R</b>	\$123.14
880B Y-Boom	<b>1609</b>	\$46.98
980B	<b>1615</b>	\$72.97
1080	<b>1615E</b>	\$63.41
1080B	<b>1615J</b>	\$64.99
1280	<b>1616</b>	\$87.30
1280B	<b>1616E</b>	\$81.50

**CATERPILLAR****[ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
304 CR	<b>0200</b>	\$26.50
305C CR	<b>0250</b>	\$35.17
312	<b>0300</b>	\$43.88
312C	<b>0300C</b>	\$48.26
312CL	<b>0300CL</b>	\$49.17
314CL CR	<b>0302CLR</b>	\$55.37
315L	<b>0305</b>	\$53.30
320	<b>0310</b>	\$70.33
320BL	<b>0312</b>	\$74.56
320C	<b>0312C</b>	\$72.49
320CL	<b>0312CL</b>	\$81.08
320L	<b>0315</b>	\$71.74
321C LCR	<b>0320R</b>	\$101.14
322L	<b>0325</b>	\$88.25
325	<b>0330</b>	\$92.88
325BL	<b>0335</b>	\$102.67
325L	<b>0340</b>	\$97.44
328D LCR	<b>0343DR</b>	\$122.88
330BL	<b>0345</b>	\$128.44

330CL	<b>0345CL</b>	\$140.37	690E LC	<b>1697ELC</b>	\$69.97
330D L	<b>0345DL</b>	\$170.07	790	<b>1698</b>	\$71.84
330L	<b>0350</b>	\$122.36	790D	<b>1698D</b>	\$77.17
345BL	<b>0355</b>	\$173.05	790E LC	<b>1698ELC</b>	\$85.84
350L	<b>0360</b>	\$174.25	792	<b>1699</b>	\$85.22
375L	<b>0365</b>	\$280.05	890	<b>1700</b>	\$114.72
205	<b>1617</b>	\$30.33	890A	<b>1705</b>	\$105.98
211	<b>1617E</b>	\$43.99	892D LC	<b>1708</b>	\$98.53
213	<b>1617H</b>	\$48.50	990	<b>1720</b>	\$125.69
215	<b>1618</b>	\$50.12	992D LC	<b>1722</b>	\$144.03
215B LC	<b>1619E</b>	\$55.95	30	<b>1725</b>	\$17.06
215C	<b>1619F</b>	\$61.67	50	<b>1730</b>	\$27.14
215D	<b>1619G</b>	\$68.60	70	<b>1735</b>	\$25.22
225	<b>1620</b>	\$71.02	200LC	<b>1745</b>	\$78.03
225LC	<b>1621</b>	\$71.53	<b>DROTT</b>	<b>[ DROT ]</b>	
225D LC	<b>1622</b>	\$89.99	<u>Model</u>	<u>Code</u>	<u>Rate</u>
227	<b>1623</b>	\$74.50	35D E boom	<b>1835</b>	\$50.33
229	<b>1625</b>	\$96.53	35D Y boom	<b>1845</b>	\$50.74
231D	<b>1630</b>	\$110.60	40D E boom	<b>1930</b>	\$62.53
231DLC	<b>1635</b>	\$112.13	40D Y boom	<b>1965</b>	\$67.53
235	<b>1640</b>	\$114.81	50D	<b>2005</b>	\$81.15
235B	<b>1642</b>	\$127.83	<b>FIAT-ALLIS</b>	<b>[ F-A ]</b>	
235 Front Shovel	<b>1645</b>	\$124.33	<u>Model</u>	<u>Code</u>	<u>Rate</u>
235B Front Shovel	<b>1647</b>	\$138.61	FE 18	<b>9000</b>	\$46.10
235C	<b>1648</b>	\$145.19	FE 20 HD	<b>9010</b>	\$58.45
235DLC	<b>1649</b>	\$150.89	FE 20 LC	<b>9020</b>	\$54.71
245	<b>1650</b>	\$193.60	FE 28	<b>9030</b>	\$76.67
245B	<b>1650B</b>	\$213.32	FE 40 L	<b>9040</b>	\$132.71
245 Front Shovel	<b>1652</b>	\$205.06	<b>GRADALL</b>	<b>[ GRAD ]</b>	
245B Front Shovel	<b>1652B</b>	\$228.34	<u>Model</u>	<u>Code</u>	<u>Rate</u>
E 180	<b>1653</b>	\$59.41	G 660	<b>0150</b>	\$62.51
EL 180	<b>1654</b>	\$60.52	G 660B	<b>0160</b>	\$78.55
EL 200B	<b>1654E</b>	\$65.17	G 660C	<b>0170</b>	\$79.27
E 240	<b>1655</b>	\$76.63	G 880B	<b>0210</b>	\$85.20
EL 240	<b>1656</b>	\$78.06	G 880C	<b>0215</b>	\$82.18
E 300	<b>1657</b>	\$96.05	G 1000	<b>0230</b>	\$132.37
E 300B	<b>1657B</b>	\$106.61	XL4200	<b>0260</b>	\$79.60
EL 300	<b>1658</b>	\$97.91	XL5200	<b>0280</b>	\$95.64
EL 300B	<b>1658B</b>	\$108.61	<b>HITACHI</b>	<b>[ HIT ]</b>	
<b>JOHN DEERE</b>	<b>[ DEER ]</b>		<u>Model</u>	<u>Code</u>	<u>Rate</u>
<u>Model</u>	<u>Code</u>	<u>Rate</u>	UH 07LC	<b>2630</b>	\$60.12
225D LC	<b>1575D</b>	\$91.41	UH 062	<b>2660</b>	\$62.72
330C LC	<b>1600C</b>	\$131.88	UH 172	<b>2695</b>	\$116.97
450LC	<b>1645</b>	\$167.19	UH 122	<b>2750</b>	\$77.88
490	<b>1660</b>	\$36.31	EX 150	<b>2797</b>	\$55.64
490E	<b>1660E</b>	\$46.77	EX 200 LC	<b>2800</b>	\$67.88
690A	<b>1685</b>	\$48.91	EX 270 LC	<b>2806</b>	\$101.08
690B	<b>1695</b>	\$62.03	EX 300LC-2	<b>2807</b>	\$117.64
690C	<b>1697</b>	\$56.91			
690D	<b>1697D</b>	\$59.94			

EX 300LC-3	2807A	\$121.04	KOEHRING	[ KOEH ]	
EX 330LC-5	2807B	\$134.82	Model	Code	Rate
EX 370-5	2807F	\$140.39	366 post 1980	4752	\$98.18
EX 400 LC	2808	\$155.84	466E	4990	\$113.12
EX 450LC-5	2808K	\$185.08	566	5160	\$124.53
EX 550LC	2809	\$229.64	666, 666E	5225	\$157.41
EX 700	2810	\$276.22	866, 866E	5235	\$186.35
EX 750-5	2815	\$288.47	6611	6000	\$37.05
EX 1100	2880	\$356.28	6614	6005	\$45.55
HYUNDAI	[ HYUN ]		6612	6010	\$44.34
Model	Code	Rate	6620	6015	\$63.24
200LC	2950	\$67.05	6625	6020	\$77.15
210LC-3	2952C	\$69.91	6633	6029	\$108.74
280LC	2960	\$98.97	6644	6040	\$145.27
290LC	2970	\$103.45	KOMATSU	[ KOMA ]	
450LC	3010	\$156.63	Model	Code	Rate
INTERNATIONAL	[ INTL ]		PC 120-5	9485	\$48.16
Model	Code	Rate	PC 150-1	9490	\$42.57
630	4250	\$46.91	PC 150-3	9495	\$52.82
640 HD	4260	\$62.57	PC 200 LC-2	9500	\$53.27
650 HD	4280	\$72.02	PC 200-5	9504	\$69.86
KATO	[ KATO ]		PC 200 LC-3	9505	\$64.86
Model	Code	Rate	PC 200 LC-5	9506	\$71.22
HD450 VII	3050	\$45.20	PC 220 LC-2	9510	\$68.68
HD700 VII LC	3060	\$65.61	PC 220 LC-3	9515	\$80.32
HD1250 VII LC	3080	\$109.68	PC 220 LC-5	9516	\$86.90
KOBELCO	[ KOBL ]		PC 220 LC-6	9516F	\$93.65
Model	Code	Rate	PC 220 LC-7	9516G	\$98.12
SK200LC MARK III	4687	\$70.24	PC 280 LC-3	9517	\$90.72
K 903B	4688	\$32.00	PC 300 LC-1, LC-2	9520	\$88.36
K 904D	4693	\$35.00	PC 300 LC-3	9525	\$106.59
K 904E	4694	\$36.92	PC 300 LC-5	9526	\$122.13
K 904 Mark II	4694A	\$36.96	PC 300 LC-6	9526A	\$133.96
K 905	4695	\$39.61	PC 360 LC-3	9527	\$122.51
K 905A LC	4697	\$42.91	PC 400 LC-1	9530	\$120.70
K 907C	4700	\$57.68	PC 400 LC-3	9535	\$142.03
K 907D	4702	\$62.10	PC 400 LC-5	9536	\$160.47
K 907 LC	4704	\$62.82	PC 400 LC-6	9537	\$176.19
K 909A	4710	\$80.26	PC 600 LC-6	9539	\$251.13
K 909 LC	4711	\$82.74	PC 650-1	9540	\$222.05
K 912A	4712	\$94.99	PC 650-1 Front Shovel	9550	\$236.43
K 914	4715	\$114.50	PC 650-3	9552	\$237.86
K 916	4717	\$127.89	PC 750-6	9555	\$288.07
SK270LC MARK IV	4720	\$100.92	PC 1000-1	9560	\$367.00
SK400LC MARK IV	4725	\$168.88	PC 1000 LC-1	9565	\$379.23
			PC 1100 LC-6	9575LC	\$440.30

**LINK-BELT****[ L-B ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
LS 1600	<b>5390</b>	\$27.82
LS 2650	<b>5395</b>	\$38.74
LS 2700C II	<b>5398</b>	\$53.53
2700 QUANTUM	<b>5399</b>	\$56.24
LS 2800	<b>5400</b>	\$45.44
LS 2800A	<b>5402</b>	\$53.57
LS 2800A PL	<b>5404</b>	\$45.98
LS 2800 PL	<b>5405</b>	\$43.21
LS 2800B	<b>5410</b>	\$58.01
LS 3400	<b>5475</b>	\$77.34
LS 3400C II	<b>5477</b>	\$82.82
LS 4300	<b>5660</b>	\$97.77
LS 4300C II	<b>5662</b>	\$107.54
LS 4800	<b>5750</b>	\$113.11
LS 4800 PL	<b>5755</b>	\$99.96
LS 5400	<b>5805</b>	\$129.99
LS 5800	<b>5810</b>	\$136.10
LS 5800A	<b>5812</b>	\$143.91
LS 5800C II	<b>5814</b>	\$151.01
LS 6400	<b>5820</b>	\$201.81
LS 7400	<b>5830</b>	\$196.50
LS 7400A	<b>5840</b>	\$245.01

**MASSEY FERGUSON****[ M-F ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
MF 450D	<b>6245</b>	\$37.49
MF 450S	<b>6250</b>	\$39.81

**mitsubishi****[ MITS ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
MS 090	<b>6290</b>	\$27.18
MS 180-3	<b>6295</b>	\$51.73
MS 180 LC-8	<b>6296</b>	\$58.36
MS 230 LC-3	<b>6300</b>	\$67.39
MS 240 LC-8	<b>6305</b>	\$72.84
MS 280-2	<b>6310</b>	\$82.41
MS 380-2	<b>6320</b>	\$116.11
MS 450-8	<b>6330</b>	\$132.63

**NORTHWEST****[ NW ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
35 DH	<b>6335</b>	\$101.75
45 DH	<b>6340</b>	\$112.80
55 DH	<b>6345</b>	\$120.54
55 DH Series II	<b>6360</b>	\$200.71

**P&H****[ P&H ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
H 750	<b>6628</b>	\$49.28
H 1250	<b>6630</b>	\$81.68
H 1750	<b>6635</b>	\$103.72
H 2500	<b>6645</b>	\$132.34
HS 2500	<b>6650</b>	\$137.03

**TAKEUCHI****[ TAKU ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TB 15	<b>7686</b>	\$11.46
TB 025	<b>7686A</b>	\$19.04
TB 045	<b>7686E</b>	\$31.52
TB 070	<b>7686H</b>	\$31.55
TB 10S	<b>7688</b>	\$9.04
TB 35S	<b>7690</b>	\$17.65
TB 68S	<b>7692</b>	\$26.29
TB 800	<b>7695</b>	\$12.61

<b>HYDRAULIC CRANES &amp; EXCAVATORS, [ HCESP ]</b> <b>SELF PROPELLED.</b>
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**DELAY FACTOR = 0.16****OVERTIME FACTOR = 0.86**

Includes all attachments and accessories required for lifting or digging.  
Pavement breaker or compactor attachments are not included.

**BUCYRUS-ERIE****[ B-E ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
300C/SP	<b>1670</b>	\$58.43
320C	<b>1672</b>	\$58.61
360C	<b>1678</b>	\$58.94

**BADGER****[ BAGR ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
4425/30	<b>1565</b>	\$79.81
4435	<b>1570</b>	\$88.25
4435B	<b>1573</b>	\$89.51
4435C	<b>1573C</b>	\$100.49
4445	<b>1574</b>	\$126.28
4450	<b>1575</b>	\$94.90
4450B	<b>1577</b>	\$101.37
4455	<b>1579</b>	\$127.00

**CASE****[ CASE ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
40E E-Boom, Cruz Air	<b>1685</b>	\$50.95
40E Y-Boom, Cruz Air	<b>1687</b>	\$51.16
40F E-Boom, Cruz Air	<b>1687H</b>	\$53.17
40F Y-Boom, Cruz Air	<b>1687K</b>	\$53.99
45 E-Boom, Cruz Air	<b>1688</b>	\$65.71
45 Y-Boom, Cruz Air	<b>1689</b>	\$70.42
45B E-Boom, Cruz Air	<b>1689H</b>	\$69.74
45B Y-Boom, Cruz Air	<b>1689K</b>	\$70.47

880R E-Boom	1690	\$45.32	RT-635	4640	\$76.74
880R Y-Boom	1695	\$45.44	RT-65 S	4700	\$80.67
1085 E-Boom, Cruz Air	1696E	\$53.04	RT-740	4710	\$91.67
1085 Y-Boom, Cruz Air	1696Y	\$53.34	RT-745	4715	\$119.52
1085B Y-Boom, Cruz Air	1696Z	\$59.51	RT-75 S	4720	\$86.61
1285 E-Boom, Cruz Air	1697E	\$66.08	RT-755	4725	\$99.72
1285 Y-Boom, Cruz Air	1697Y	\$66.22	RT-760	4727	\$147.58
3330 Low Profile	1698E	\$27.28	RT-865	4730	\$123.55
3330B	1698H	\$27.52	RT-865B	4732	\$171.65
<b>CATERPILLAR</b>	[ CAT ]		RT-875	4735	\$152.62
<u>Model</u>	<u>Code</u>	<u>Rate</u>	RT-980	4750	\$148.30
206	1699	\$37.46	RT-990	4760	\$173.33
212	1699E	\$47.71	RT-9100	4790	\$226.95
214	1699H	\$51.52	<b>KOMATSU</b>	[ KOMA ]	
224	1699J	\$63.54	<u>Model</u>	<u>Code</u>	<u>Rate</u>
<b>GRADALL</b>	[ GRAD ]		PW 210-1	9580	\$86.97
<u>Model</u>	<u>Code</u>	<u>Rate</u>	<b>LINK-BELT</b>	[ L-B ]	
G 3WD, 4x4	0110	\$76.32	<u>Model</u>	<u>Code</u>	<u>Rate</u>
<b>GROVE</b>	[ GROV ]		HSP 15	5500	\$56.71
<u>Model</u>	<u>Code</u>	<u>Rate</u>	HSP 18	5505	\$56.71
24	3820	\$28.77	HSP 20	5510	\$62.66
36	3830	\$46.52	HSP 22	5530	\$64.06
68	3850	\$55.01	HSP 25	5535	\$68.86
1012	3870	\$67.24	HSP 8015	5538	\$67.79
2535	3880	\$87.86	HSP 8018	5538E	\$67.79
RT-48	4030	\$49.25	HSP 8018XL	5538G	\$81.94
RT-49	4115	\$49.53	HSP 8018C	5538H	\$62.93
RT-58	4285	\$50.75	HSP 8025	5538P	\$70.85
RT-418	4354	\$66.13	HSP 8025 S	5538PF	\$72.38
RT-420	4356	\$66.13	HSP 8030	5538Q	\$81.50
RT-422	4358	\$66.13	HSP 8035	5538R	\$119.95
RT-500D	4359	\$91.28	HSP 8040	5538S	\$120.09
RT-525	4360	\$59.72	HSP 8050	5538T	\$122.22
RT-525B	4362	\$62.58	HSP 8055	5538V	\$108.41
RT-525C	4363	\$78.98	HSP 8060	5539	\$135.76
RT-527.5	4365	\$60.56	<b>LORAIN</b>	[ LORN ]	
RT-528B	4370	\$62.58	<u>Model</u>	<u>Code</u>	<u>Rate</u>
RT-528C	4372	\$79.47	LRT 15H	5730	\$57.79
RT-60	4520	\$59.18	LRT 15U	5735	\$59.05
RT-60S	4540	\$61.09	LRT 18U	5740	\$59.51
RT-515	4606	\$59.57	LRT 35U	5745	\$87.37
RT-518	4607	\$61.48	LRT 40U	5750	\$88.14
RT-520	4608	\$62.99	LRT 150	5755	\$57.40
RT-522	4609	\$62.24	LRT 150D	5756	\$73.18
RT-522C	4609G	\$77.64	LRT 180	5760	\$57.36
RT-625	4630	\$68.30	LRT 180D	5760D	\$73.18
RT-630	4635	\$68.30	LRT 200	5765	\$57.19
RT-630B	4637	\$74.24	LRT 200D	5765D	\$73.35

LRT 220	<b>5767</b>	\$59.62
LRT 230	<b>5768</b>	\$64.91
LRT 230D	<b>5768D</b>	\$73.37
LRT 250	<b>5769</b>	\$64.93
LRT 250D	<b>5769D</b>	\$73.37
LRT 275	<b>5770</b>	\$64.93
LRT 275D	<b>5770D</b>	\$73.37
LRT 330	<b>5772</b>	\$82.12
LRT 400	<b>5773</b>	\$94.89
LRT 450	<b>5774</b>	\$98.03
LRT 500	<b>5775</b>	\$101.05
LRT 550	<b>5790</b>	\$106.29

#### **P&H**

[ P&H ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
OMEGA 14	<b>5790</b>	\$54.63
OMEGA 15	<b>5792</b>	\$54.63
OMEGA 18	<b>5794</b>	\$55.06
OMEGA 25	<b>5795</b>	\$74.43
OMEGA 20	<b>5796</b>	\$55.73
OMEGA 23	<b>5796E</b>	\$58.47
OMEGA 30	<b>5796J</b>	\$76.84
OMEGA 35	<b>5796P</b>	\$77.80
OMEGA 40	<b>5797</b>	\$105.35
OMEGA 45	<b>5797E</b>	\$107.07
OMEGA 50	<b>5797J</b>	\$108.45
OMEGA 60	<b>5798</b>	\$109.67
OMEGA 65	<b>5799</b>	\$132.45
OMEGA 114	<b>5799C</b>	\$63.13
OMEGA 114D	<b>5799G</b>	\$61.18
OMEGA 118	<b>5799Q</b>	\$64.63
OMEGA 118D	<b>5799S</b>	\$61.33
OMEGA 120	<b>5799U</b>	\$66.27
OMEGA 120D	<b>5799W</b>	\$62.03
OMEGA 122	<b>5799X</b>	\$67.25
OMEGA 122D	<b>5799Y</b>	\$62.61
OMEGA 125	<b>5799Z</b>	\$67.62
OMEGA 128	<b>5799ZA</b>	\$66.11
R 150	<b>5890</b>	\$45.87
R 150-1	<b>5910</b>	\$45.38
R 180	<b>5975</b>	\$46.20
R 200	<b>6060</b>	\$46.52
OMEGA S-15	<b>6062</b>	\$76.97
OMEGA S-18	<b>6063</b>	\$76.97
OMEGA S-20	<b>6064</b>	\$79.52
S-35	<b>6064E</b>	\$107.30

#### **PETTIBONE**

[ PET ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
16 MK P Series	<b>6500</b>	\$50.68
20 MK P Series	<b>6580</b>	\$51.31
25	<b>6740</b>	\$47.10
25 MK P Series	<b>6750</b>	\$52.09
29 MK P Series	<b>6880</b>	\$53.12
30	<b>6900</b>	\$47.10
30 MK P Series	<b>6903</b>	\$54.11
30 SC, 30 SC P Series	<b>6910</b>	\$73.37
60 SC	<b>6990</b>	\$79.87
60 SC P Series	<b>6995</b>	\$85.86
70	<b>7100</b>	\$85.06
70 SC	<b>7165</b>	\$84.77
70 SC P Series	<b>7170</b>	\$90.77
80 MK P Series	<b>7250</b>	\$84.87
80 SC P Series	<b>7260</b>	\$86.26

#### **R.O. PRODUCTS**

[ ROP ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
MC 5A	<b>8005</b>	\$28.89
MC 50B	<b>8175</b>	\$46.30
MC 50C	<b>8260</b>	\$47.63

#### **HYDRAULIC CRANES & EXCAVATORS, TRUCK MTD. W/ CARRIER** [ HCETD ]

**DELAY FACTOR = 0.15**

**OVERTIME FACTOR = 0.87**

Includes truck/carrier. Includes all attachment and accessories required for lifting or digging. Pavement breaker or compactor attachments are not included.

#### **BUCYRUS-ERIE**

[ B-E ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
25 XC	<b>1360</b>	\$74.09
30 XC	<b>1370</b>	\$74.73
40 C	<b>1475</b>	\$65.79
60 XC	<b>1590</b>	\$121.27
65 C	<b>1592</b>	\$104.38
90 XC	<b>1600</b>	\$132.63

#### **BADGER**

[ BAGR ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
300 Hydro-Scopic	<b>0550</b>	\$51.31
460 Hydro-Scopic	<b>0555</b>	\$63.21
666 Hydro-Scopic	<b>0560</b>	\$91.01
888 Hydro-Scopic	<b>0600</b>	\$96.63

#### **BANTAM**

[ BANT ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
T 744 Teleskoop	<b>1285</b>	\$59.69
T 888	<b>1310</b>	\$84.44
T 888B	<b>1315</b>	\$97.70

<b>DEVAULT</b>			<b>[ DVUT ]</b>			<b>LINK-BELT</b>			<b>[ L-B ]</b>		
<u>Model</u>		<u>Code</u>		<u>Rate</u>		<u>Model</u>		<u>Code</u>		<u>Rate</u>	
TK 15-10		<b>1900</b>		\$36.44		HTC 14		<b>4505</b>		\$82.29	
<b>GRADALL</b>			<b>[ GRAD ]</b>			HTC 25		<b>4507</b>		\$82.29	
<u>Model</u>		<u>Code</u>		<u>Rate</u>		HTC 35		<b>4509</b>		\$92.05	
G 3W		<b>0120</b>		\$60.93		HTC 50		<b>4510</b>		\$120.64	
G 660		<b>0170</b>		\$59.64		HTC 50W		<b>4520</b>		\$115.77	
G 660B		<b>0180</b>		\$76.72		HTC 814		<b>4530</b>		\$110.08	
G 660C		<b>0190</b>		\$75.22		HTC 814XL		<b>4531</b>		\$115.04	
G 800		<b>0210</b>		\$50.35		HTC 822 S		<b>4532</b>		\$101.39	
G 880B		<b>0220</b>		\$84.97		HTC 825		<b>4535</b>		\$93.69	
G 880C		<b>0230</b>		\$82.98		HTC 825 S		<b>4536</b>		\$102.44	
G 1000		<b>0240</b>		\$93.37		HTC 830		<b>4537</b>		\$112.00	
<b>GROVE</b>			<b>[ GROV ]</b>			HTC 835		<b>4539</b>		\$118.08	
<u>Model</u>		<u>Code</u>		<u>Rate</u>		HTC 835XL		<b>4539C</b>		\$133.76	
TD 520		<b>2221</b>		\$89.17		HTC 840		<b>4539E</b>		\$137.20	
TD 522		<b>2223</b>		\$89.17		HTC 850		<b>4539G</b>		\$142.28	
TD 525		<b>2224</b>		\$90.07		HTC 855		<b>4539H</b>		\$122.48	
TMS 250		<b>2850</b>		\$84.70		HTC 860		<b>4539J</b>		\$144.99	
TMS 250A		<b>2860</b>		\$85.19		HTC 1040		<b>4540</b>		\$134.35	
TMS 250B		<b>2870</b>		\$85.19		HTC 1050		<b>4545</b>		\$137.14	
TMS 250C		<b>2875</b>		\$119.42		HTC 1055		<b>4550</b>		\$126.14	
TMS 300		<b>2922</b>		\$101.45		HTC 1060		<b>4555</b>		\$141.75	
TMS 300B		<b>2923</b>		\$118.55		HTC 11100		<b>4600</b>		\$246.97	
TMS 760		<b>3180</b>		\$181.91		<b>LORAIN</b>			<b>[ LORN ]</b>		
TMS 865		<b>3378</b>		\$135.96		<u>Model</u>		<u>Code</u>		<u>Rate</u>	
TM 875		<b>3380</b>		\$158.94		MCH 140		<b>4942</b>		\$96.02	
TMS 875		<b>3385</b>		\$159.81		MCH 150		<b>4946</b>		\$88.80	
TM 890		<b>3387</b>		\$179.72		MCH 180		<b>4947</b>		\$88.80	
TM 1075		<b>3390</b>		\$145.11		MCH 300		<b>4953</b>		\$104.91	
<b>HIAB</b>			<b>[ HIAB ]</b>			MCH 350		<b>4955</b>		\$85.78	
<u>Model</u>		<u>Code</u>		<u>Rate</u>		MCH 400		<b>4957</b>		\$115.16	
100 AW		<b>3850</b>		\$31.89		MCH 500		<b>4960</b>		\$94.88	
1165		<b>3852</b>		\$28.78		<b>MANITEX</b>			<b>[ MANX ]</b>		
170 thru 174		<b>3854</b>		\$27.31		<u>Model</u>		<u>Code</u>		<u>Rate</u>	
175 thru 177		<b>3855</b>		\$27.45		1161		<b>4980</b>		\$35.05	
550, 5501		<b>3857</b>		\$30.28		1770		<b>4985</b>		\$63.11	
650		<b>3859</b>		\$31.18		2284		<b>4990</b>		\$65.84	
<b>KOEHRING</b>			<b>[ KOEH ]</b>			2592		<b>4995</b>		\$67.76	
<u>Model</u>		<u>Code</u>		<u>Rate</u>		<b>NATIONAL</b>			<b>[ NATL ]</b>		
4460 Teleskoop		<b>4400</b>		\$59.36		<u>Model</u>		<u>Code</u>		<u>Rate</u>	
4465 Teleskoop		<b>4405</b>		\$60.57		Ser 4/400, 11.3 m (37') boom		<b>4983</b>		\$31.57	
4470 Teleskoop		<b>4410</b>		\$70.68		Ser 4/400, 14.0 m (46') boom		<b>4984</b>		\$31.77	
4475 Teleskoop		<b>4415</b>		\$71.87		Ser 4/400, 16.8 m (55') boom		<b>4985</b>		\$31.94	
						Ser 5/500A/B, 14.3 m (47') boom		<b>4986</b>		\$36.89	
						Ser 5/500A/B, 17.1 m (56') boom		<b>4987</b>		\$37.50	
						Ser 6/600, 14.3 m (47') boom		<b>4989</b>		\$36.43	
						Ser 6/600, 17.1 m (56') boom		<b>4990</b>		\$36.79	



856	<b>4995</b>	\$37.29
856B	<b>4996</b>	\$36.46
875	<b>4997</b>	\$38.02
875B	<b>4998</b>	\$39.44
Series 85	<b>4999</b>	\$33.26

#### **P&H**

#### **[ P & H ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
ALPHA 100 ton	<b>5000</b>	\$233.36
CN T-280	<b>5005</b>	\$120.34
T-150	<b>5290</b>	\$86.05
T-180	<b>5380</b>	\$86.49
T-200	<b>5470</b>	\$87.01
T-250	<b>5560</b>	\$101.96
CN T-250	<b>5561</b>	\$122.68
OMEGA T-250	<b>5570</b>	\$98.17
OMEGA T-300	<b>5580</b>	\$101.41
OMEGA T-350	<b>5585</b>	\$102.62
T-300A	<b>5665</b>	\$96.84
OMEGA T-400	<b>5666M</b>	\$121.80
OMEGA T-450	<b>5669</b>	\$123.50
T-600 XL	<b>5670</b>	\$139.29
OMEGA T-500	<b>5680</b>	\$123.49
OMEGA T-650	<b>5745</b>	\$164.22
T-750	<b>5780</b>	\$119.12

#### **PITMAN**

#### **[ PIT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Hydralift HL 40 thru 95	<b>6670</b>	\$27.70
Hydralift HL 100 thru 170	<b>6675</b>	\$31.08
HL 857	<b>6685</b>	\$36.02
HL 1200, 1545-T2 or 1580	<b>6695</b>	\$38.36
POLECAT	<b>6697</b>	\$42.45
PELICAN	<b>6699</b>	\$45.29

#### **R.O. PRODUCTS**

#### **[ ROP ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TC-40	<b>6860</b>	\$28.65
TC-50	<b>6862</b>	\$30.21
TC-70	<b>6864</b>	\$31.57
TC-80	<b>6866</b>	\$31.64
TC-85	<b>6868</b>	\$31.16
TC-110	<b>6870</b>	\$35.32
TC-120	<b>6872</b>	\$35.92
TC-125	<b>6874</b>	\$35.57
TC-145	<b>6876</b>	\$38.50
TC-150	<b>6878</b>	\$36.89

### **HYDRAULIC CRANES & EXCAVATORS, [ HCETG ] TRUCK MTD. LESS CARRIER.**

**DELAY FACTOR = 0.12**

**OVERTIME FACTOR = 0.90**

Includes all lifting and digging attachments and accessories. Truck/carrier to be paid separately. Pavement breaker or compactor attachments are not included.

#### **BUCYRUS-ERIE**

#### **[ B-E ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
H-3 series two	<b>1000</b>	\$35.20
H-5 series two	<b>1300</b>	\$42.22

#### **GALION**

#### **[ GALN ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
125 P	<b>1970</b>	\$41.63
150 P	<b>1980</b>	\$50.51

#### **GROVE**

#### **[ GROV ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TM 100C	<b>2020</b>	\$58.42
TM 200C	<b>2040</b>	\$50.15

### **HYDRAULIC PERSONNEL LIFTS & [ HYLFT ] AERIAL WORK PLATFORMS**

**DELAY FACTOR = 0.24**

**OVERTIME FACTOR = 0.78**

Includes self propelled and power take off(PTO) units whether gas, diesel or electric. Rates for any truck or carrier mounted units shall pay for the truck separately. Reach is rated by Mfr's maximum extension in meters(feet).

#### **BOOM TYPE**

#### **[ BOOM ]**

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	7.6 (25)	<b>00-24</b>	\$13.08
7.6 (25)	15.2 (50)	<b>25-49</b>	\$31.99
15.2 (50)	22.9 (75)	<b>50-74</b>	\$46.31

#### **SCISSOR TYPE**

#### **[ SCIS ]**

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	6.1 (20)	<b>00-20</b>	\$14.38
6.4 (21)	9.1 (30)	<b>21-30</b>	\$17.61
9.4 (31)	15.2 (50)	<b>31-50</b>	\$26.27

**LOADERS, CRAWLER****[ LDRCL ]****DELAY FACTOR = 0.14****OVERTIME FACTOR = 0.88**

Includes all attachments and accessories excluding clam-action buckets and backhoe(see attachment class).

**CASE****[ CASE ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
350B	<b>2370</b>	\$28.63
450B	<b>2610</b>	\$26.85
455B	<b>2620</b>	\$28.61
455C	<b>2620A</b>	\$31.49
1155D	<b>3555</b>	\$54.75
1155E	<b>3556</b>	\$59.01
1450	<b>3560</b>	\$59.44
1450B	<b>3565</b>	\$66.28
1455B	<b>3568</b>	\$67.17

**CATERPILLAR****[ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
931B	<b>3735</b>	\$29.72
931C	<b>3735C</b>	\$31.76
931 LGP	<b>3740</b>	\$27.94
931B LGP	<b>3745</b>	\$30.81
935B	<b>3845</b>	\$35.60
935C	<b>3845C</b>	\$37.96
939C	<b>3900</b>	\$49.98
943	<b>4130</b>	\$47.46
943 LGP	<b>4135</b>	\$44.33
951C 86J 1992 serial	<b>4200</b>	\$39.97
951C 86J 2598 serial	<b>4210</b>	\$45.32
951C LGP 86J 2598 ser	<b>4215</b>	\$46.15
953	<b>4220</b>	\$63.82
953 LGP	<b>4230</b>	\$58.91
955L 85J 6247 serial	<b>4675</b>	\$57.03
955L 85J 13X10129 ser	<b>4680</b>	\$62.86
955L LGP 85J 13X10129	<b>4685</b>	\$63.20
963	<b>4690</b>	\$88.27
963 LGP	<b>4693</b>	\$78.83
973	<b>4695</b>	\$132.05
973 LGP	<b>4698</b>	\$111.10
977K	<b>5014</b>	\$64.46
977K 11K serial	<b>5092</b>	\$68.69
977L 11K 3919 serial	<b>5170</b>	\$80.85
977L 11K 5083 serial	<b>5180</b>	\$89.99
977L 14X serial	<b>5185</b>	\$94.42
977L LGP	<b>5190</b>	\$94.09
983	<b>5248</b>	\$127.01
983B	<b>5265</b>	\$138.70

**JOHN DEERE****[ DEER ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
JD 350C	<b>5420</b>	\$30.16
JD 450C (4 speed PS)	<b>5805</b>	\$30.66
JD 455D	<b>5807</b>	\$32.41
JD 455E	<b>5809</b>	\$32.65
JD 455G	<b>5809A</b>	\$38.21
JD 555	<b>5810</b>	\$34.77
JD 555A	<b>5812</b>	\$38.55
JD 555B	<b>5814</b>	\$37.78
JD 555G	<b>5814A</b>	\$49.02
JD 655	<b>5815</b>	\$55.41
JD 655B	<b>5817</b>	\$64.49
JD 755	<b>5820</b>	\$51.49
JD 755A	<b>5822</b>	\$64.88
JD 755B	<b>5824</b>	\$74.27
JD 855	<b>5830</b>	\$97.87

**DRESSER****[ DRES ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
100E (PS)	<b>9000</b>	\$32.00
100G	<b>9005</b>	\$37.51
125E (PS)	<b>9010</b>	\$39.68
125G	<b>9015</b>	\$45.83
175C (PS)	<b>9020</b>	\$78.01
200	<b>9025</b>	\$92.95
250C (PS)	<b>9030</b>	\$92.57
250E (PS)	<b>9035</b>	\$107.03

**KOMATSU****[ KOMA ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
D 53S-16	<b>7878</b>	\$52.39
D 53S-17	<b>7878A</b>	\$65.01
D 55S-2	<b>7900</b>	\$52.51
D 55S-3	<b>7978</b>	\$52.51
D 57S-1	<b>8000</b>	\$74.45
D 65S-6	<b>8017</b>	\$69.46
D 66S-1	<b>8020</b>	\$102.72
D 75S-2	<b>8056</b>	\$75.23
D 75S-3	<b>8060</b>	\$95.58
D 75S-5	<b>8061</b>	\$136.69
D 155S-1	<b>8080</b>	\$190.78

**LOADERS, RUBBER TIRE****[ LDRRT ]****DELAY FACTOR = 0.14****OVERTIME FACTOR = 0.87**

Includes all attachments and accessories. Clam-action buckets, 4WD and backhoes are excluded unless otherwise noted.

**ALLIS-CHALMERS****[ A-C ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
710C	<b>0747</b>	\$28.85
714B	<b>0750</b>	\$27.96
714C w/ backhoe	<b>0752</b>	\$30.43
715B w/ backhoe	<b>0765</b>	\$29.85
715C w/ backhoe	<b>0767</b>	\$30.69

**CASE****[ CASE ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
W-11	<b>1365</b>	\$27.58
W-11B	<b>1368</b>	\$33.41
W-18	<b>1444</b>	\$45.60
W-18 9213140 serial	<b>1450</b>	\$49.05
W-18B	<b>1460</b>	\$53.05
W-20	<b>1472</b>	\$49.17
W-20B	<b>1480</b>	\$49.93
W-20C	<b>1482</b>	\$53.83
W-30	<b>1565</b>	\$73.54
480B	<b>1636</b>	\$22.50
480B w/ backhoe	<b>1640</b>	\$23.78
480C	<b>1650</b>	\$29.21
480C w/ backhoe	<b>1660</b>	\$30.74
480D	<b>1662</b>	\$32.92
480D w/ backhoe	<b>1664</b>	\$34.82
480E w/ backhoe	<b>1666</b>	\$28.61
480E LL	<b>1667</b>	\$27.42
480F w/ backhoe	<b>1668</b>	\$29.89
480F LL	<b>1669</b>	\$28.16
480LL	<b>1677</b>	\$32.96
570L XT 4WD	<b>1690</b>	\$32.58
580B w/ backhoe	<b>1705</b>	\$29.81
580C	<b>1710</b>	\$23.92
580C w/ backhoe	<b>1715</b>	\$25.78
580D	<b>1717</b>	\$25.24
580D w/ backhoe	<b>1720</b>	\$27.69
580 Super D	<b>1725</b>	\$27.55
580 Super D w/ backhoe	<b>1727</b>	\$30.05
580 Super E	<b>1731</b>	\$28.20
580 Super E w/ backhoe	<b>1735</b>	\$30.89
580K w/ backhoe	<b>1739</b>	\$31.17
580K 4WD w/ backhoe	<b>1740</b>	\$32.24
580 Super K w/ backhoe	<b>1742</b>	\$34.41
580L w/ backhoe	<b>1743</b>	\$34.66
580 Super L 4WD w/ backhoe	<b>1744</b>	\$40.39

590 Turbo w/ backhoe	<b>1745</b>	\$42.01
590 Super L 4WD w/ backhoe	<b>1746</b>	\$44.38
621	<b>1750</b>	\$56.70
721	<b>1752</b>	\$68.97
821	<b>1754</b>	\$84.49
680E w/ backhoe	<b>1840</b>	\$39.53
680G w/ backhoe	<b>1850</b>	\$38.23
680H w/ backhoe	<b>1852</b>	\$41.06
680K w/ backhoe	<b>1854</b>	\$44.55
680L w/ backhoe	<b>1856</b>	\$45.26
680L 4WD w/ backhoe	<b>1857</b>	\$46.05
780 w/ backhoe	<b>1864</b>	\$50.16
780B w/ backhoe	<b>1866</b>	\$54.25
780C w/ backhoe	<b>1867</b>	\$55.30
780D w/ backhoe	<b>1868</b>	\$56.05
780D 4WD w/ backhoe	<b>1869</b>	\$57.41

**CATERPILLAR****[ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
416 w/ backhoe	<b>1860</b>	\$31.24
416 Series II w/ backhoe	<b>1860A</b>	\$31.47
416B 4WD w/ extend-a-hoe	<b>1861A</b>	\$38.98
416C 4WD w/ backhoe	<b>1861C</b>	\$40.57
416D w/ backhoe	<b>1861D</b>	\$35.81
416D 4WD w/ backhoe	<b>1861D4</b>	\$36.89
420D w/ backhoe	<b>1861M</b>	\$40.07
420D 4WD w/ backhoe	<b>1861M4</b>	\$41.15
426 w/ backhoe	<b>1862</b>	\$35.32
426 Series II w/ backhoe	<b>1862A</b>	\$35.55
426C w/ backhoe	<b>1862C</b>	\$44.46
426C 4WD w/ backhoe	<b>1862C4</b>	\$45.86
428 w/ backhoe	<b>1864</b>	\$35.30
428 Series II w/ backhoe	<b>1864A</b>	\$35.52
430D	<b>1865D</b>	\$49.07
430E	<b>1865E</b>	\$51.97
436 w/ backhoe	<b>1866</b>	\$38.41
436 Series II w/ backhoe	<b>1866A</b>	\$38.60
446 w/ backhoe	<b>1868</b>	\$50.16
446B w/ backhoe	<b>1868B</b>	\$55.72
446D	<b>1868D</b>	\$58.30
450E	<b>1869E</b>	\$70.09
910	<b>1870</b>	\$33.42
910E	<b>1870E</b>	\$39.48
916	<b>1885</b>	\$44.72
920	<b>1894</b>	\$40.71
926	<b>2065</b>	\$51.94
926E	<b>2067</b>	\$56.52
928G	<b>2070G</b>	\$68.33
930 41K serial	<b>2088</b>	\$49.69
930G	<b>2088G</b>	\$80.96
936	<b>2100</b>	\$63.24

936E	2110	\$69.06	JOHN DEERE	[ DEER ]	
936F	2120	\$71.78	Model	Code	Rate
938F	2130	\$73.57	JD-210C	2485	\$25.79
938G	2130G	\$83.01	JD-210C w/ backhoe	2490	\$26.10
950 90A serial	2228	\$51.73	JD-210LE	2495	\$34.17
950 31K & 81J serial	2270	\$64.04	JD-310A w/ backhoe	2504	\$27.34
950B	2272	\$79.22	JD-310B w/ backhoe	2506	\$28.03
950E	2300	\$84.71	JD-310C w/ backhoe	2507	\$30.77
950F	2301	\$89.07	JD-310D w/ backhoe	2507D	\$34.94
950F Series II	2303	\$92.75	JD-310E w/ backhoe	2507E	\$35.82
950G	2310	\$99.90	JD-310SE w/ backhoe	2507F	\$40.07
950H	2310H	\$116.93	310G	2507G	\$36.75
962G	2320G	\$109.01	JD-315SE w/ backhoe	2507H	\$40.70
966C	2340	\$95.41	JD-410 w/ backhoe	2508	\$30.02
966D	2350	\$104.24	JD-410B w/ backhoe	2508B	\$30.71
966E	2360	\$115.53	JD-410C w/ backhoe	2508C	\$35.86
966F	2361	\$118.14	JD-410D w/ backhoe	2508D	\$43.08
966G	2362	\$133.81	JD-410E w/ backhoe	2508E	\$45.16
966H	2362H	\$156.84	410G	2508G	\$46.14
970F	2370	\$139.53	410J 4WD	2508J	\$53.92
972G	2372G	\$148.96	410K	2508K	\$57.08
980B	2376	\$117.36	JD-444	2510	\$39.68
980C	2378	\$147.66	JD-444C	2515	\$41.68
980F	2381	\$152.50	JD-444D	2520	\$42.72
980G	2382	\$168.39	JD-444E	2521	\$46.64
980H	2382H	\$185.19	JD-500C w/ backhoe	2592	\$39.02
988 87A6868 serial	2398	\$142.86	JD-510 w/ backhoe	2620	\$35.61
988B 50W serial	2436	\$212.86	JD-510B w/ backhoe	2625	\$34.99
992B 25K serial	2460	\$257.29	JD-510C w/ backhoe	2630	\$41.04
992C	2470	\$409.03	JD-510D w/ backhoe	2630D	\$49.10
IT 12	2472	\$34.18	JD-544B	2660B	\$49.22
IT 12B	2472B	\$39.88	JD-544C	2660C	\$50.83
IT 14F	2473	\$46.40	JD-544D	2660D	\$49.74
IT 18	2474	\$43.48	JD-544E	2660E	\$55.12
IT 18B	2475	\$49.28	JD-544G	2660G	\$61.39
IT 28	2476	\$52.42	544J	2660J	\$81.03
IT 28B	2477	\$57.24	544K	2660K	\$90.32
IT 28F	2477G	\$66.53	JD-610B w/ backhoe	2690	\$40.02
IT 28G	2478	\$69.72	JD-610C w/ backhoe	2691	\$45.25
IT 38G	2480	\$80.21	JD-624E	2700	\$66.26
IT 62G	2482	\$110.28	JD-624G	2700G	\$75.73
CLARK	[ CLRK ]		JD-624H	2700H	\$82.81
Model	Code	Rate	JD-644B	2710	\$68.06
35C	2484	\$41.25	JD-644C	2715	\$70.98
45C	2486	\$48.24	JD-644D	2717	\$72.86
55C	2488	\$58.12	JD-644E	2719	\$79.51
75C	2491	\$76.26	JD-644G	2719B	\$91.47
125B	2492	\$97.12	JD-644H	2719H	\$98.20
275B	2496	\$169.05	644J	2719J	\$110.35
275C	2497	\$187.59	JD-710B w/ backhoe	2720	\$50.94

JD-710C w/ backhoe	2721	\$56.74	<b>HOUGH</b>	<b>[ HOUG ]</b>	
JD-710D w/ backhoe	2722	\$62.71	<u>Model</u>	<u>Code</u>	<u>Rate</u>
JD-710D 4WD w/ backhoe	2722D	\$64.65	H65C	3578	\$64.94
710G	2722G	\$66.90	H-90E	3884	\$113.84
JD-744H	2723	\$134.10	H-100C	3954	\$133.05
744J	2723J	\$159.95	<b>INTERNATIONAL</b>	<b>[ INTL ]</b>	
JD-844	2725	\$126.66	<u>Model</u>	<u>Code</u>	<u>Rate</u>
<b>DRESSER</b>	<b>[ DRES ]</b>		260A	2260	\$29.47
<u>Model</u>	<u>Code</u>	<u>Rate</u>	260A w/ backhoe	2270	\$31.13
510B	2310	\$38.88	270A w/ backhoe	2280	\$34.31
510C	2310C	\$52.28	280A w/ backhoe	2285	\$42.55
515B	3517	\$50.40	<b>J C B</b>	<b>[ JCB ]</b>	
515C	3517C	\$62.00	<u>Model</u>	<u>Code</u>	<u>Rate</u>
520B	3519	\$58.40	214S w/ backhoe	4430	\$41.85
520C	3519C	\$73.98	215S w/ backhoe	4435	\$46.10
530	3520	\$82.12	217S w/ backhoe	4440	\$49.41
530C	3520C	\$90.84	3C 1550 2WD w/ hoe	4448	\$29.77
540	3530	\$114.86	3D 1700 4WD w/ hoe	4450	\$40.01
550	3540	\$114.54	1400B w/ backhoe	4455	\$33.74
<b>FIAT-ALLIS</b>	<b>[ F-A ]</b>		1550B w/ backhoe	4457	\$38.65
<u>Model</u>	<u>Code</u>	<u>Rate</u>	1600B w/ backhoe	4458	\$44.58
545B	3042	\$47.35	1700B w/ backhoe	4459	\$45.64
745C	3046	\$92.75	<b>KAWASAKI</b>	<b>[ KAWA ]</b>	
FR 10	3049H	\$50.29	<u>Model</u>	<u>Code</u>	<u>Rate</u>
FR 10B	3049I	\$55.11	60Z IV	4300	\$58.22
FR 20	3050	\$106.15	65Z IV	4310	\$65.10
FR 30	3051	\$139.29	KSS 80Z II	4330	\$82.67
FR 20B	3051B	\$118.94	80Z III	4335	\$97.34
FR 35	3052	\$186.48	80Z IV	4340	\$99.41
<b>FORD</b>	<b>[ FORD ]</b>		85Z IV	4345	\$124.40
<u>Model</u>	<u>Code</u>	<u>Rate</u>	90Z III	4350	\$137.40
545C	3054	\$27.86	90Z IV	4355	\$141.49
650 w/ backhoe	3056	\$30.52	95Z IV-2	4360	\$182.77
655A w/ backhoe	3056F	\$34.81	<b>KOMATSU</b>	<b>[ KOMA ]</b>	
655C w/ backhoe	3056G	\$38.56	<u>Model</u>	<u>Code</u>	<u>Rate</u>
750 w/ backhoe	3057	\$40.29	W 120-3	4520	\$96.01
755 w/ backhoe	3061	\$43.43	W 180-1	4525	\$136.37
755B w/ backhoe	3063	\$49.53	WA 200-1	4536	\$54.68
755A w/ backhoe	3065	\$48.14	WA 250-1	4537	\$75.21
A-62	3114	\$42.38	WA 300-1	4538	\$71.19
A-64	3116	\$51.41	WA 320-1	4539	\$88.25
A-66	3118	\$67.30	WA 350-1	4540	\$84.57
<b>FURUKAWA</b>	<b>[ FURU ]</b>		WA 380-1	4541	\$105.30
<u>Model</u>	<u>Code</u>	<u>Rate</u>	WA 380-3	4541C	\$105.93
FL 320A	3120M	\$94.47	WA 400-1	4542	\$100.62
FL 330	3120S	\$103.13	WA 420-3	4543C	\$121.96
			WA 450-1	4544	\$125.73

WA 450-2	<b>4544B</b>	\$141.87
WA 450-3	<b>4544C</b>	\$144.79
WA 470-1	<b>4545</b>	\$138.16
WA 500-1	<b>4546</b>	\$169.02
WA 600-1	<b>4550</b>	\$248.67
WB 140-2 4WD	<b>4700</b>	\$44.31
WB 150-2 4WD	<b>4710</b>	\$51.17

#### MASSEY FERGUSON

[ M-F ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
MF 44C	<b>5143</b>	\$50.73
MF 50H Series S	<b>5150</b>	\$29.99
MF 50H Series S, 4WD	<b>5152</b>	\$30.68
MF 50HX Series S	<b>5154</b>	\$32.28
MF 50HX Series S, 4WD	<b>5156</b>	\$33.15
MF 55C	<b>5170</b>	\$65.22
MF 60 w/ backhoe	<b>5171</b>	\$32.07
MF 60H Series S w/ hoe	<b>5172</b>	\$34.54
MF 66C	<b>5174</b>	\$83.66
MF 80 w/ backhoe	<b>5182</b>	\$45.53
MF 88	<b>5184</b>	\$132.81
640	<b>6000</b>	\$30.27
650	<b>6010</b>	\$32.42

#### NEW HOLLAND

[ NHND ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
545D	<b>0100</b>	\$29.13
575E w/ backhoe	<b>0110</b>	\$41.35
655D w/ backhoe	<b>0120</b>	\$37.32
655E w/ backhoe	<b>0130</b>	\$44.74
675D 4WD w/ backhoe	<b>0140</b>	\$43.15
675E 4WD w/ backhoe	<b>0150</b>	\$51.23

#### TEREX

[ TERX ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
70C	<b>7938</b>	\$120.07
72-61	<b>8036</b>	\$147.09
72-71B	<b>8055</b>	\$192.97
72-81	<b>8080</b>	\$230.41

#### VOLVO-MICHIGAN-EUCLID

[ VME ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
175B	<b>6186</b>	\$119.06
175C	<b>6186C</b>	\$139.64
275B	<b>6330</b>	\$152.18
275C	<b>6330C</b>	\$187.59
L-70C	<b>9570C</b>	\$63.22
L-90	<b>9575</b>	\$75.89
L-120	<b>9595</b>	\$98.35
L-120C	<b>9595C</b>	\$101.55
L-150C	<b>9598C</b>	\$126.93
L-160	<b>9600</b>	\$132.50

L-180C	<b>9602C</b>	\$143.33
L-190	<b>9605</b>	\$154.28

#### LEADS, PILE DRIVING

[ LEADS ]

DELAY FACTOR = 0.46

OVERTIME FACTOR = 0.59

#### FIXED

[ FIXD ]

Includes headblock, taper top, tip sled and connector, foot yoke, foot yoke sheave, intermediate flights, and all attachments and accessories. Rated in accordance with height of the lead measured in meters ( linear feet)

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	16.8 (55) (w/o spotter)	<b>0100</b>	\$19.41
16.8 (55)	32.0 (105) (w/o spotter)	<b>0200</b>	\$24.75
over	32.0 (105) (w/o spotter)	<b>0300</b>	\$31.00
0	16.8 (55) (w/ spotter)	<b>1100</b>	\$32.80
16.8 (55)	32.0 (105) (w/ spotter)	<b>1200</b>	\$39.15
over	32.0 (105) (w/ spotter)	<b>1300</b>	\$46.42

#### SWINGING

[ SWNG ]

Includes headblock, taper top, tip sled and connector, foot yoke, foot yoke sheave, intermediate flights, and all attachments and accessories. Rated in accordance with the height of the lead measured in meters (linear feet).

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	16.8 (55) (w/o spotter)	<b>0400</b>	\$12.86
16.8 (55)	32.0 (105) (w/o spotter)	<b>0500</b>	\$17.92
over	32.0 (105) (w/o spotter)	<b>0600</b>	\$24.17
0	16.8 (55) (w/ spotter)	<b>1400</b>	\$26.26
16.8 (55)	32.0 (105) (w/ spotter)	<b>1500</b>	\$32.32
over	32.0 (105) (w/ spotter)	<b>1600</b>	\$39.59

#### NON-OPERATED EQUIPMENT (DAILY RATES)

[ NONOP ]

DELAY FACTOR = 0.55

OVERTIME FACTOR = 1.00

Note various units for different items. The following allowance is entered on the extra work bill by using the (unit listed x number of days) in the hours worked column. The following list is limited to items with long estimated lives. Additional traffic related items such as cones and barricades, are still listed under TRAFIC in this publication. Other non-operated items with short estimated lives should be treated as materials and should not be "rented". Non rented items are 1) intended to be job specific (amortized over the life of the project) and 2) have an estimated life measured by number of uses rather than a length of time.

#### MISCELLANEOUS

[ MISC ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Casing, 450 mm dia, per 0.3 m (Casing, 18" dia, per lf)	<b>0120</b>	\$0.03
Casing, 650 mm dia, per 0.3 m (Casing, 26" dia, per lf)	<b>0130</b>	\$0.06
Casing, 900 mm dia, per 0.3 m (Casing, 36" dia, per lf)	<b>0140</b>	\$0.08
Casing, 1800 mm dia, per 0.3 m (Casing, 72" dia, per lf)	<b>0150</b>	\$0.20
Casing, 2400 mm dia, per 0.3 m (Casing, 96" dia, per lf)	<b>0160</b>	\$0.24

Casing, 2700 mm dia, per 0.3 m (Casing, 108" dia, per lf)	<b>0170</b>	\$0.28	Shoring, 2.1 m deep x 2235 mm wide, per section (Shoring, 7' deepx88" wide trench, per section)	<b>0540</b>	\$1.31
Casing, 3000 mm dia, per 0.3 m (Casing, 120" dia, per lf)	<b>0180</b>	\$0.37	Shoring, 2.4 m deep x 4.6 m wide, per 3.0 m (Shoring, 8' deepx15' wide trench box, per 10')	<b>0550</b>	\$9.03
Pile, all depths "H" pile, per 45.0 kg (Pile, all depths "H" pile, per hundred-weight)	<b>0190</b>	\$0.04	Shoring, 2.4 m deep x 2.4 m max width, per 7.3 m (8' deep x 8' max width trench box, per 24')	<b>0560</b>	\$17.77
Pipe, 250-300 mm dia, per 0.3 m (Pipe, 10-12" dia, per lf)	<b>0200</b>	\$0.02	Shoring, 3.0 m deep x 2.4 m max box, per 4.9 m (Shoring, 10' deepx8' max trench box, per 16')	<b>0570</b>	\$15.96
Plate, 22 mm thick, per 9.3 sm (Plate, 7/8" thick, per 100 sf)	<b>0210</b>	\$1.18	Shoring, 3.0 m deep x 2.4 m max box, per 7.3 m (Shoring, 10' deepx8' max trench box, per 24')	<b>0580</b>	\$22.19
Plate, 25 mm thick, per 9.3 sm (Plate, 1" thick, per 100 sf)	<b>0220</b>	\$1.35	Wood, 50 mm x255 mm, per 30.5 m (Wood, 2"x10", per 100 lf)	<b>0605</b>	\$0.15
Plate, 38 mm thick, per 9.3 sm (Plate, 1.5" thick, per 100 sf)	<b>0230</b>	\$2.02	Wood, 50 mm x305 mm, per 30.5 m (Wood, 2"x12", per 100 lf)	<b>0610</b>	\$0.19
<b>SCAFFOLDING, SHORING, [ SSFW ]</b>			Wood, 100mm x100mm, per 30.5 m (Wood, 4"x4", per 100 lf)	<b>0615</b>	\$0.13
<b>FALSEWORK</b>			Wood, 100 mm x150 mm, per 30.5 m (Wood, 4"x6", per 100 lf)	<b>0620</b>	\$0.18
<u>Model</u>	<u>Code</u>	<u>Rate</u>	Wood, 100 mm x205 mm, per 30.5 m (Wood, 4"x8", per 100 lf)	<b>0625</b>	\$0.26
Metal form, 1.8 m x3.0 m, per 14.6 m (Metal form, 6x10 box culvert, per 48 lf)	<b>0310</b>	\$41.24	Wood, 100 mm x305 mm, per 30.5 m (Wood, 4"x12", per 100 lf)	<b>0630</b>	\$0.39
Metal form, 2.4 m x3.7 m, per 15.2 m (Metal form, 8x12 box culvert, per 50 lf)	<b>0320</b>	\$45.70	Wood, 150 mm x305 mm, per 30.5 m (Wood, 6"x12", per 100 lf)	<b>0635</b>	\$0.65
Metal form, 2.1 m x4.3 m, per 15.2 m (Metal form, 7x14 box culvert, per 50 lf)	<b>0330</b>	\$50.23	Wood, 150 mm x455 mm, per 30.5 m (Wood, 6"x18", per 100 lf)	<b>0640</b>	\$1.04
Metal form, type 25 barrier, per 3.0 m (Metal form, type 25 barrier, per 10 lf)	<b>0340</b>	\$2.51	Wood, 205 mm x405 mm, per 30.5 m (Wood, 8"x16", per 100 lf)	<b>0645</b>	\$1.28
Metal form, type 26 barrier, per 3.0 m (Metal form, type 26 barrier, per 10 lf)	<b>0350</b>	\$2.66	Wood, 305 mm x455 mm, per 30.5 m (Wood, 8"x18", per 100 lf)	<b>0650</b>	\$1.44
Metal form, type 27 barrier, per 3.0 m (Metal form, type 27 barrier, per 10 lf)	<b>0360</b>	\$2.29	Wood, 305 mm x305 mm, per 30.5 m (Wood, 12"x12", per 100 lf)	<b>0655</b>	\$1.24
Metal form, type 50 barrier, per 3.0 m (Metal form, type 50 barrier, per 10 lf)	<b>0370</b>	\$2.48	Wood form, type 27 barrier, per 2.4 m (Wood form, type 27 barrier, per 8 lf)	<b>0660</b>	\$0.27
Metal form, 1.8 m x 3.7 m girder panel, per 0.1 sm ( 6x12 girder panel, per sf)	<b>0380</b>	\$0.17	Wide flange beam, all depths, per 45 kg (Wide flange beam, all depths, per hundred wt.)	<b>0670</b>	\$0.03
Metal form, all heights paving, per 3.0 m (Metal form, all heights paving, per 10 lf)	<b>0390</b>	\$0.04	<b>TANK [ TANK ]</b>		
Scaffolding, 1.5 m section, per section (Scaffolding, 5' section, per section)	<b>0410</b>	\$0.52	<u>Model</u>	<u>Code</u>	<u>Rate</u>
Scaffolding, 3.0 m section, per section (Scaffolding, 10' section, per section)	<b>0420</b>	\$1.15	Tank, metal, 0-2270 liters (0-600 gallons)	<b>0710</b>	\$0.70
Scaffolding, 4.6 m section, per section (Scaffolding, 15' section, per section)	<b>0430</b>	\$1.52	Tank, metal, 2270-4540 liters (600-1200 gal)	<b>0720</b>	\$0.96
Scaffolding, bottom/top section, per 1.5 m section (per 5 ft section)	<b>0440</b>	\$0.72	Tank, metal, 4540-9840 liters (1200-2600 gal)	<b>0730</b>	\$2.38
Scaffolding, 2.1 m high, rolling (Scaffolding, 7' high, rolling)	<b>0450</b>	\$1.08	Tank, metal, 22 710 liters (6000 gallons)	<b>0740</b>	\$4.78
Scaffolding, spider staging, plus air compressor	<b>0460</b>	\$22.92	Tank, metal, 28 390 liters (7500 gallons)	<b>0750</b>	\$6.00
Shoring, 1.1 m deep x 2235 mm wide, per section (Shoring, 3.5' deep x 88" wide trench, per section)	<b>0510</b>	\$1.18	Tank, metal, 30 280 liters ( 8000 gallons)	<b>0760</b>	\$6.35
Shoring, 1.2 m deep x 3.7 m wide box, per 7.3 m (Shoring, 4' deepx12' wide trench box, per 24')	<b>0515</b>	\$10.93	Tank, metal, 37 850 liters (10000 gallons)	<b>0770</b>	\$7.04
Shoring, 1.5 m deep x 2235 mm wide, per section (Shoring, 5' deep x 88" wide trench, per section)	<b>0520</b>	\$1.24			
Shoring, 2.1 m deep x 1397 mm wide, per section (Shoring, 7' deep x 55" wide trench, per section)	<b>0530</b>	\$1.09			

**TRAFFIC SAFETY [ TRAF ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Crash cushion barrel, filled, each	<b>0810</b>	\$1.19
K-rail, temporary concrete barrier, per 6.1 m (20 lf)	<b>0820</b>	\$0.46

<b>PAVEMENT GRINDERS, DIAMOND BLADES [ PGDIA ]</b>
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**DELAY FACTOR = 0.10 OVERTIME FACTOR = 0.91**

Includes water (but not water truck or trailer), coolant, cutting compounds and all attachments and accessories. Replacement blades are included in the rates listed below.

**CONCUT [ CCUT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BC-38 (136 blades)	<b>0500</b>	\$162.05
BC-244 (187 blades)	<b>0505</b>	\$202.52
BC-1268 (48 blades)	<b>0510</b>	\$63.82

**CUSHION CUT [ CUCT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
HG-130A (127 blades)	<b>0600</b>	\$159.08
PC-390 (171 blades)	<b>0610</b>	\$244.59

**PENHALL [ PENH ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
G-38 (172 blades)	<b>0800</b>	\$310.06

**TARGET [ TARG ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
CG-65 (41 blades)	<b>0900</b>	\$100.64
PRM-3804 (170 blades)	<b>0905</b>	\$340.85

<b>PAVEMENT GRINDERS, TUNGSTEN- CARBIDE BITS [ PGT-C ]</b>
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**DELAY FACTOR = 0.14 OVERTIME FACTOR = 0.88**

Includes water (but not water truck or trailer), coolant, cutting compounds and all attachments and accessories. Replacement bits or tips are included in the rates listed below.

**BARBER-GREENE [ B-G ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
RX-20	<b>0100</b>	\$157.88
RX-30	<b>0105</b>	\$250.23
RX-40B	<b>0110</b>	\$287.00
RX-50	<b>0115</b>	\$337.74
RX-80B	<b>0120</b>	\$555.40

**CATERPILLAR [ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
PM-800	<b>0200</b>	\$437.44
PR-105	<b>0201</b>	\$78.84
PR-275	<b>0205</b>	\$213.31
PR-450	<b>0210</b>	\$306.85
PR-750	<b>0215</b>	\$440.54

PR-750B	<b>0216</b>	\$465.16
PR-1000	<b>0220</b>	\$607.60

**C.M.I. [ CMI ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
PR-275 RT	<b>0150</b>	\$201.64
PR-375	<b>0155</b>	\$254.17
PR-450	<b>0160</b>	\$291.38
PR-525	<b>0165</b>	\$308.77
PR-500FL	<b>0170</b>	\$342.49
PR-750	<b>0175</b>	\$423.31
PR-800-7	<b>0177</b>	\$464.42
PR-1000	<b>0180</b>	\$521.45

**INGERSOLL-RAND [ I-R ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
MW-175	<b>0280</b>	\$88.20
MW-250	<b>0285</b>	\$96.19
MW-250C	<b>0286</b>	\$116.53
MT-6520 (crawler)	<b>0300</b>	\$284.63
MW-6520	<b>0305</b>	\$206.98
MW-6520HC	<b>0310</b>	\$260.77
MT-7000	<b>0315</b>	\$358.30

**WIRTGEN [ WIRT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
300VC	<b>0380</b>	\$34.96
1000VC	<b>0390</b>	\$134.70
1900DC	<b>0395</b>	\$306.15
2000VC	<b>0400</b>	\$296.47
2100VC	<b>0402</b>	\$383.01
2200VC	<b>0405</b>	\$492.42
3500VC	<b>0410</b>	\$504.92
4200VC	<b>0420</b>	\$522.51

<b>PUMPS, WATER HOSE [ PUMWA ]</b>
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**DELAY FACTOR = 0.37 OVERTIME FACTOR = 0.66**

Centrifugal and diaphragm types (including submersibles). Rate includes power (gas, diesel or electric generator), 7.6 meters (25 lineal feet) of suction hose, 15.2 meters (50 lineal feet) of discharge hose, foot valve and all fittings, attachments and accessories.

**A PUMP [ APMP ]**

Listed by Mfr's rated capacity measured in thousands of liters per minute (thousands of gallons per hour) at 3.0 meters (10 feet) of suction head.

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	0.6 (10)	<b>000-010</b>	\$2.91
0.6 (10)	1.3 (20)	<b>010-020</b>	\$4.31
1.3 (20)	1.9 (30)	<b>020-030</b>	\$5.37
1.9 (30)	3.2 (50)	<b>030-050</b>	\$18.44
3.2 (50)	7.9 (125)	<b>050-125</b>	\$22.46
7.9 (125)	15.8 (250)	<b>125-250</b>	\$26.90



**INLET-SUCTION HOSE [ INHS ]**

Additional 7.6 meter (25 foot) lengths of suction hose shall be paid based on the inside hose diameter in millimeters (inches).

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	60 (2.5)	<b>0-2.5</b>	\$0.07
60 (2.5)	80 (3)	<b>2.5-3.5</b>	\$0.12
80 (3)	100 (4)	<b>3.5-4</b>	\$0.17
100 (4)	150 (6)	<b>4-6</b>	\$0.27

**OUTLET-DISCHARGE HOSE [ OUHS ]**

Additional 15.2 meter (50 foot) lengths of discharge hose shall be paid based on the inside hose diameter in millimeters (inches).

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	60 (2.5)	<b>0-2.5</b>	\$0.05
60 (2.5)	90 (3.5)	<b>2.5-3.5</b>	\$0.09
90 (3.5)	100 (4)	<b>3.5-4</b>	\$0.14
100 (4)	150 (6)	<b>4-6</b>	\$0.19

**ROLLERS, TANDEM STEEL WHEELS [ ROL-2 ]**

**DELAY FACTOR = 0.13      OVERTIME FACTOR = 0.88**

Includes all attachments and accessories.

**BOMAG [ BMAG ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BW-4AS	<b>1150</b>	\$20.25
BW-6AS	<b>1155</b>	\$21.86
BW-10AS	<b>1160</b>	\$36.79
BW-12AS	<b>1165</b>	\$37.56

**DRESSER [ DRES ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
S3-5B	<b>2500</b>	\$26.16
S8-12A	<b>2520</b>	\$34.90
S10-14A	<b>2525</b>	\$35.66

**FERGUSON [ FERG ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
3-5 ton	<b>4048</b>	\$15.60
3-5A	<b>4048A</b>	\$16.82
4-6A	<b>4142A</b>	\$16.96
5-8 ton	<b>4236</b>	\$37.24
5-8A	<b>4240</b>	\$29.44
8-12 ton	<b>4424</b>	\$30.29
8-12B	<b>4424B</b>	\$32.87
8-12A	<b>4430</b>	\$30.42
10-14 ton	<b>4450</b>	\$31.18
10-14A	<b>4455</b>	\$30.93
10-14B	<b>4455B</b>	\$33.43

**GALION [ GALN ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
4-6 ton roll-o-static	<b>4650</b>	\$24.32
S4-6A, S4-6B	<b>4670</b>	\$26.86

5-8 ton roll-o-static	<b>4800</b>	\$28.45
S5-8A	<b>4820</b>	\$31.54
8-10.5 ton roll-o-static	<b>4988</b>	\$29.10
S8-10.5A	<b>5000</b>	\$32.24
8-12 ton roll-o-static	<b>5176</b>	\$29.40
S8-12A	<b>5190</b>	\$32.88

**HYSTER [ HYST ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
C 330A 3-5 ton	<b>6520</b>	\$26.62
C 330B 3-5 ton (Hypac)	<b>6520B</b>	\$21.69
C 330A 4-6 ton	<b>6525</b>	\$27.96
C 330B 4-6 ton (Hypac)	<b>6526</b>	\$23.80
C 340A 5-8 ton	<b>6530</b>	\$31.90
C 340A 8-10 ton	<b>6540</b>	\$32.45
C 340B 5-8 ton	<b>6545</b>	\$29.68
C 340C 5-8 ton (Hypac)	<b>6546</b>	\$32.55
C 340B 8-10 ton	<b>6548</b>	\$30.38
C 340C 8-10 ton (Hypac)	<b>6549</b>	\$33.02
C 350B 8-12 ton	<b>6710</b>	\$33.33
C 350B 10-14 ton	<b>6740</b>	\$33.82
C 350C 8-12 ton	<b>6750</b>	\$31.65
C 350C 10-14 ton	<b>6755</b>	\$32.35
C 350D 8-12 ton	<b>6757</b>	\$33.10

**INGRAM [ INGM ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
4-6 ton FB	<b>6900</b>	\$20.45
5-6.5 ton FB	<b>6965</b>	\$21.98
8-12 ton HB	<b>7175</b>	\$30.58
10-14 ton HB	<b>7275</b>	\$31.19

**REXNORD [ RXND ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
3-5 ton	<b>8566</b>	\$19.00
4-6 ton	<b>8572</b>	\$19.57
5-8 ton	<b>8578</b>	\$42.39
7-10 ton	<b>8584</b>	\$42.58
8-12 ton	<b>8590</b>	\$42.93
10-14 ton	<b>8596</b>	\$43.27

**ROLLERS, RUBBER TIRE, SELF  
PROPELLED****[ ROLRT ]****DELAY FACTOR = 0.19****OVERTIME FACTOR = 0.83**

Includes all attachments and accessories.

**BUFFALO-BOMAG****[ B-B ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BW 20R	<b>2624</b>	\$31.75

**CATERPILLAR****[ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
PS 110	<b>3460</b>	\$35.19
PS 130	<b>3465</b>	\$34.60
PS 180	<b>3470</b>	\$36.80
PS 200B	<b>3480</b>	\$46.19

**DYNAPAC****[ DYPC ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
CP 15	<b>3500</b>	\$33.63
CP 21	<b>3510</b>	\$42.92
CP 27	<b>3520</b>	\$54.74

**GALION****[ GALN ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
3500	<b>4310</b>	\$32.60
P 3000	<b>4315</b>	\$31.03
P 3500A	<b>4320</b>	\$33.78

**HYSTER****[ HYST ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
C 530A	<b>5401</b>	\$34.12
C 550A	<b>5494</b>	\$37.77

**ROLLER-TAMPING, SEGMENTED,  
SHEEPSFOOT, SELF PROPELLED****[ ROTAM ]****DELAY FACTOR = 0.12****OVERTIME FACTOR = 0.90**

Includes all attachments and accessories.

**BUFFALO-BOMAG****[ B-B ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
K 300	<b>1630</b>	\$64.49
K 301	<b>1635</b>	\$74.52
K 401	<b>1638</b>	\$90.55

**CATERPILLAR****[ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
815	<b>2300</b>	\$78.37
815B	<b>2310</b>	\$119.91
815F	<b>2320</b>	\$131.48
825B	<b>2500</b>	\$130.17
825C	<b>2510</b>	\$177.71
835	<b>2700</b>	\$163.77

**RAYGO****[ RAGO ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
30	<b>6490</b>	\$63.78
45	<b>6500</b>	\$97.64
RAM PAK 45	<b>6505</b>	\$105.38

**REXNORD****[ RXND ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
3-30	<b>7120</b>	\$77.34
3-35 PACTOR	<b>7127</b>	\$98.74
3-45 PACTOR	<b>7130</b>	\$124.59
3-50, 3-50A PACTOR	<b>7140</b>	\$134.69
3-55, 3-55B PACTOR	<b>7150</b>	\$168.51

**ROLLERS-TAMPING, SEGMENTED,  
SHEEPSFOOT, TOWED****[ ROTAT ]****DELAY FACTOR = 0.43****OVERTIME FACTOR = 0.62**

Includes all attachments and accessories. Listed by drum dimensions in millimeters (feet) in either direction. The first digit is the diameter and the second digit is the length of each drum.

**SINGLE DRUM UNIT****[ ADRU ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
1220 mm x1220 mm (4'X4') & under	<b>4X4</b>	\$1.82
over 1220 mm (4') - not over 1520 mm (5')	<b>4X5</b>	\$2.06
over 1520 mm (5')	<b>5</b>	\$3.74

**DOUBLE DRUM UNIT****[ DDRU ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
1220 mm x1220 mm (4'X4') & under, each	<b>4X4</b>	\$4.41
over 1220 mm (4') - not over 1520 mm (5'), each	<b>4X5</b>	\$13.34
over 1520 mm (5'), each	<b>5</b>	\$24.56

**ROLLERS, VIBRATORY, SELF  
PROPELLED****[ ROVIB ]****DELAY FACTOR = 0.20****OVERTIME FACTOR = 0.83**

Includes all attachments and accessories.

**BUFFALO-BOMAG****[ B-B ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BW 210	<b>2060</b>	\$50.55
BW 210A	<b>2070</b>	\$52.54
BW 213	<b>2080</b>	\$51.65
BW 214	<b>2090</b>	\$53.38

**BOMAG****[ BMAG ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BW 35	<b>0700</b>	\$5.98
BW 60, 60S	<b>0800</b>	\$8.87
BW 65, 65S	<b>0900</b>	\$6.27
BW 75, 75S	<b>1000</b>	\$9.91
BW 85T	<b>1200</b>	\$17.72
BW 90	<b>1300</b>	\$11.29

BW 100AD-3	1325C	\$28.52	CB 534C	8067C	\$72.44
BW 120AD	1350	\$28.69	CB 534D OR XW	8067D	\$92.21
BW 142PD	1359	\$34.77	CS 551	8070	\$76.70
BW 151AD	1365	\$50.26	CP 553 padfoot drum	8075	\$81.45
BW 170AD, D	1380	\$42.88	CS 553 smooth drum	8080	\$77.92
BW 172AD, D	1385	\$43.64	CP 563 padfoot drum	8082	\$85.01
BW 202AD	1400	\$68.68	CS 563 smooth drum	8083	\$81.19
<b>BROS</b>	<b>[ BROS ]</b>		CS 563C	8083C	\$87.30
<u>Model</u>	<u>Code</u>	<u>Rate</u>	CB 614	8085	\$87.61
VM 255	2023	\$43.82	CB 634	8095	\$87.20
VM 268, VM 268H	2024	\$54.11	CB 634C	8095C	\$89.14
VM 278	2025	\$80.41	<b>DYNAPAC</b>	<b>[ DYPC ]</b>	
<b>CASE</b>	<b>[ CASE ]</b>		<u>Model</u>	<u>Code</u>	<u>Rate</u>
<u>Model</u>	<u>Code</u>	<u>Rate</u>	LR 90	2401	\$12.16
50B	2228	\$6.17	A 36V, A 36D	2405	\$29.74
W 251	2400	\$20.49	CA 12	2409A	\$38.02
252, W 252	2405	\$25.87	CA 12D	2409B	\$33.68
752, W 752	2450	\$47.04	CA 12PD	2409E	\$34.17
1102, W 1102	2500	\$60.61	CA 12PDB strikeoff blade	2409H	\$32.88
1102D, W 1102D	2505	\$63.07	CA 15	2410	\$51.57
602D	2510	\$41.84	CA 15A	2420	\$46.82
752B	2520	\$50.03	CA 15D	2421	\$55.03
<b>CATERPILLAR</b>	<b>[ CAT ]</b>		CA 20D	2422	\$46.06
<u>Model</u>	<u>Code</u>	<u>Rate</u>	CA 15PD	2425	\$47.68
CB 54	7000	\$85.70	CA 25	2430	\$66.42
CS 56	7020	\$94.10	CA 25S	2440	\$64.48
CB 64	7400	\$101.00	CA 25A, CA 25D	2450	\$69.42
CB 214	8025	\$25.07	CA 25PD	2455	\$72.14
CB 214B	8026	\$26.28	CA 25T	2460	\$58.33
CB 224	8030	\$26.17	CA 30	2462	\$70.44
CB 224B	8031	\$28.13	CA 30D	2464	\$74.92
CB 224C	8031C	\$28.92	CA 51S, CA 51D	2466	\$87.98
CB 224E	8031E	\$32.02	CA 55D	2468	\$90.85
CB 314	8035	\$27.88	CA 151PDB	2469	\$66.27
CP 323 padfoot drum	8040	\$46.25	CC 10, CC 10 series II	2470	\$26.18
CS 323 smooth drum	8042	\$44.55	CC 10A	2472	\$22.24
CB 414	8045	\$44.86	CC 102	2472C	\$28.65
CS 431	8050	\$41.11	CC 12	2472E	\$28.74
CS 431B	8051	\$55.53	CC 14	2473	\$41.38
CP 433 padfoot drum	8055	\$47.52	CC 21	2474	\$44.17
CP 433B padfoot drum	8056	\$61.80	CC 21 II	2474B	\$47.29
CP 433E	8056E	\$77.35	CC 211	2474C	\$55.37
CS 433 smooth drum	8060	\$46.87	CC 42 II Dynatronic	2475	\$70.19
CS 433B smooth drum	8061	\$58.87	CC 42A	2476	\$69.13
CB 434	8062	\$52.03	CC 50	2482	\$73.97
CB 434D	8062D	\$65.19	CC 50A	2488	\$85.92
CB 514	8065	\$56.73	CC 50PD	2488E	\$135.13
CB 534	8067	\$72.11	CC 50S	2489	\$126.98
			DD 18	2498	\$10.18
			300V	2499E	\$13.27

2100V	<b>2499H</b>	\$12.80	SPF 48	<b>3890</b>	\$53.71
<b>ESSICK</b>	[ <b>ESIK</b> ]		SPF 48B	<b>3892</b>	\$54.93
<u>Model</u>	<u>Code</u>	<u>Rate</u>	SP 54	<b>4000</b>	\$50.01
VR 30RE	<b>2700</b>	\$7.98	SP 54DD	<b>4005</b>	\$52.02
VR 42RE	<b>2820</b>	\$20.38	SPA 54	<b>4010</b>	\$50.90
V 30WR, V 30W2-R	<b>2902</b>	\$8.54	SPF 54	<b>4020</b>	\$55.78
<b>HYSTER</b>	[ <b>HYST</b> ]		SP 56	<b>4030</b>	\$59.47
<u>Model</u>	<u>Code</u>	<u>Rate</u>	SP 56DD	<b>4035</b>	\$62.35
C 612B	<b>3450</b>	\$48.31	SP 56DH	<b>4037</b>	\$83.01
C 610A	<b>3500</b>	\$34.54	SPF 56	<b>4040</b>	\$64.15
C 610B	<b>3540</b>	\$46.55	SPF 56B	<b>4050</b>	\$67.06
C 615B	<b>3562</b>	\$48.67	SPF 56DH	<b>4080</b>	\$84.50
C 617B	<b>3563</b>	\$49.17	SPF 56DHB	<b>4090</b>	\$88.38
C 620B	<b>3566</b>	\$48.06	SP 60	<b>4100</b>	\$102.76
C 625B	<b>3570</b>	\$49.77	SP 84	<b>4105</b>	\$87.78
C 627B	<b>3572</b>	\$50.44	SP 60DD	<b>4110</b>	\$125.90
C 727A	<b>3572E</b>	\$69.39	SPF 60	<b>4120</b>	\$130.57
C 748A (Hypac/Hyster)	<b>3572F</b>	\$30.38	SPF 60B	<b>4130</b>	\$138.53
C 766A	<b>3572G</b>	\$62.82	SPF 60C	<b>4132</b>	\$119.92
C 766B (Hypac/Hyster)	<b>3572H</b>	\$75.29	SPF 84	<b>4133</b>	\$89.49
C 850A	<b>3572J</b>	\$72.93	SPF 84B	<b>4134</b>	\$93.93
C 850B (Hypac/Hyster)	<b>3572K</b>	\$87.44	SD 40D	<b>4138</b>	\$46.66
C 852A	<b>3572N</b>	\$78.43	SD 40F w/ blade	<b>4138FB</b>	\$48.17
C 852B (Hypac/Hyster)	<b>3572P</b>	\$90.93	SD 70	<b>4139</b>	\$53.01
C 860A	<b>3572S</b>	\$77.13	SD 100	<b>4140</b>	\$69.61
C 860B (Hypac/Hyster)	<b>3572T</b>	\$85.62	SD 100D	<b>4140D</b>	\$83.24
<b>INGERSOLL-RAND</b>	[ <b>I-R</b> ]		SD 100F	<b>4140F</b>	\$83.79
<u>Model</u>	<u>Code</u>	<u>Rate</u>	SD 115D	<b>4141D</b>	\$101.23
DD 22	<b>3565</b>	\$33.34	SD 150D	<b>4143D</b>	\$109.31
DD 23	<b>3570</b>	\$24.80	<b>KOEHRING-BOMAG</b>	[ <b>KOBO</b> ]	
DD 24	<b>3572</b>	\$33.00	<u>Model</u>	<u>Code</u>	<u>Rate</u>
DA 30	<b>3573</b>	\$26.16	BW 120AC	<b>4168E</b>	\$28.33
DD 35	<b>3573C</b>	\$27.64	BW 120AD	<b>4169</b>	\$28.66
DA 40	<b>3573E</b>	\$48.00	BW 121AD	<b>4193</b>	\$25.65
DA 41	<b>3573G</b>	\$50.34	BW 130AD	<b>4193E</b>	\$30.48
DD 34HF	<b>3573HF</b>	\$41.45	BW 140AD	<b>4194</b>	\$47.52
DA 48	<b>3573M</b>	\$66.01	BW 141AC	<b>4194B</b>	\$48.68
DA 50	<b>3574</b>	\$67.48	BW 141AD	<b>4194E</b>	\$43.24
DD 65	<b>3574A</b>	\$54.03	BW 142D	<b>4194H</b>	\$33.58
DF 84	<b>3574B</b>	\$109.37	BW 172	<b>4212</b>	\$40.78
DS 84	<b>3574C</b>	\$106.12	BW 172D	<b>4212E</b>	\$43.42
DD 90	<b>3574D</b>	\$73.95	BW 213D	<b>4237</b>	\$67.86
DD 110	<b>3574F</b>	\$81.64	BW 214D	<b>4238</b>	\$83.75
DD 130	<b>3574H</b>	\$107.68	BW 215D	<b>4240</b>	\$81.56
DD 145	<b>3574J</b>	\$91.78	BW 217D	<b>4242</b>	\$102.89
SPA 56	<b>3810</b>	\$52.63	BW 220D	<b>4250</b>	\$75.81
SP 48	<b>3880</b>	\$49.82			
SP 48DD	<b>3885</b>	\$51.42			

<b>MIKASA</b>	<b>[ MIKA ]</b>		RS 58D	<b>6327</b>	\$71.93
<u>Model</u>	<u>Code</u>	<u>Rate</u>	RS 156A	<b>6340</b>	\$49.12
MDR 7DW	<b>4404</b>	\$7.08	RS 166A	<b>6350</b>	\$63.99
MDR 9G	<b>4405</b>	\$10.41	RS 188A	<b>6370</b>	\$80.48
MDR T38S	<b>4407</b>	\$7.22	RS 210	<b>6400</b>	\$63.31
MRV 10GA	<b>4409</b>	\$11.93	<b>WACKER</b>	<b>[ WACK ]</b>	
<b>RAYGO</b>	<b>[ RAGO ]</b>		<u>Model</u>	<u>Code</u>	<u>Rate</u>
<u>Model</u>	<u>Code</u>	<u>Rate</u>	R 900	<b>7850</b>	\$17.26
1-36 REBEL	<b>4805</b>	\$11.74	R 1000	<b>7855</b>	\$28.00
2-36 ROMPER	<b>4810</b>	\$25.63	W 55T	<b>7860</b>	\$9.36
2-66 RANGER	<b>4820</b>	\$68.54	W 74L, W 74T	<b>7880</b>	\$9.24
2-84 RANGER	<b>4830</b>	\$93.76	W 74	<b>7890</b>	\$8.90
220A RASCAL	<b>4840</b>	\$40.03	W 75	<b>7900</b>	\$8.97
320A RASCAL	<b>4876</b>	\$48.72	WDH 84	<b>7910</b>	\$13.07
320S RASCAL	<b>4890</b>	\$46.00	WDH 86-110	<b>7912</b>	\$16.65
400A RASCAL	<b>5010</b>	\$47.80	WHK 90, WHK 90L	<b>7915</b>	\$15.83
404B RUSTLER	<b>5110</b>	\$53.14	<div><b>SHOVELS &amp; CRANES CRAWLER</b><b>[ S&amp;CCL ]</b></div>		
410A RASCAL	<b>5150</b>	\$51.37			
600A RASCAL	<b>5220</b>	\$64.34	<b>DELAY FACTOR = 0.21</b> <b>OVERTIME FACTOR = 0.82</b>		
4000 RASCAL	<b>5235</b>	\$68.98	Includes all attachments and accessories when used as a crane, clamshell, dragline or for pile driving (not including leads or driving equipment).		
4200 RASCAL	<b>5236</b>	\$74.94	<b>LINK-BELT</b>	<b>[ L-B ]</b>	
4404 RUSTLER	<b>5236E</b>	\$27.61	<u>Model</u>	<u>Code</u>	<u>Rate</u>
<b>RAMMAX</b>	<b>[ RAMX ]</b>		LS 78	<b>4702</b>	\$59.72
<u>Model</u>	<u>Code</u>	<u>Rate</u>	LS 78 pipeliner	<b>4724</b>	\$61.72
P 33/24	<b>4605</b>	\$16.45	LS 98	<b>4826</b>	\$66.10
P 33/24 w/ remote	<b>4606</b>	\$15.75	LS 98 pipeliner	<b>4852</b>	\$72.11
P 51	<b>4625</b>	\$62.87	LS 98A	<b>4924</b>	\$67.17
S 51	<b>4630</b>	\$31.40	LS 108B	<b>4980</b>	\$76.41
P 47	<b>5290</b>	\$31.29	LS 108D	<b>4981</b>	\$102.70
<b>SAKAI</b>	<b>[ SAKI ]</b>		LS 118	<b>4998</b>	\$108.21
<u>Model</u>	<u>Code</u>	<u>Rate</u>	LS 218H	<b>5010</b>	\$184.36
SV 70	<b>8025</b>	\$48.76	LS 318	<b>5012</b>	\$108.62
SV 70D	<b>8026</b>	\$51.10	LS 338	<b>5020</b>	\$119.80
SV 91	<b>8050</b>	\$72.05	LS 518	<b>5124</b>	\$177.13
SV 91D	<b>8051</b>	\$74.02	<b>MANITOWOC</b>	<b>[ MTWC ]</b>	
SV 200D	<b>8060</b>	\$37.53	<u>Model</u>	<u>Code</u>	<u>Rate</u>
<b>TAMPO</b>	<b>[ TAMP ]</b>		222EX (WEST)	<b>5600</b>	\$218.68
<u>Model</u>	<u>Code</u>	<u>Rate</u>	2900 WC	<b>5764</b>	\$94.17
RP 16D (HD)	<b>5990</b>	\$46.55	3000 W	<b>5812</b>	\$111.99
RP 28D	<b>5995</b>	\$61.85	3900B (100 ton)	<b>6036</b>	\$155.75
RP 48D	<b>6110</b>	\$77.96	3900 W VICON series 2	<b>6132</b>	\$214.85
RP 58D	<b>6115</b>	\$73.39	4000 W VICON	<b>6180</b>	\$191.62
RS 16 (HD)	<b>6170</b>	\$43.68	4100 W VICON series 1	<b>6196</b>	\$298.34
RS16A (HD)	<b>6180</b>	\$45.64	4100 W VICON series 2	<b>6198</b>	\$307.63
RS 16D (HD)	<b>6185</b>	\$46.14	4600 VICON series 1	<b>6328</b>	\$454.75
RS 28C	<b>6315</b>	\$57.74	4600 VICON series 3	<b>6332</b>	\$498.42
RS 28D	<b>6320</b>	\$58.96			

<b>P&amp;H</b>	<b>[ P&amp;H ]</b>	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
535	<b>7716</b>	\$92.50
550	<b>7748</b>	\$98.52
670 WLC	<b>7892</b>	\$117.42

### **SHOVELS & CRANES, TRUCK MOUNTED [ S&CTK ]**

**DELAY FACTOR = 0.24      OVERTIME FACTOR = 0.79**  
Includes truck/carrier. Includes all attachments and accessories when used as a crane, clamshell, dragline or for pile driving (leads and driving equipment not included).

<b>AMERICAN HOIST &amp; DERRICK</b>	<b>[ AMHD ]</b>	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
5470	<b>1015</b>	\$101.43
5530	<b>1080</b>	\$180.91
7450	<b>1130</b>	\$90.78
7460	<b>1140</b>	\$135.92
7530	<b>1170</b>	\$151.76
8460	<b>1178</b>	\$195.45
8470	<b>1179</b>	\$319.09

<b>LINK-BELT</b>	<b>[ L-B ]</b>	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
HC 48A	<b>4332</b>	\$58.68
HC 108B	<b>4960</b>	\$67.45
HC 108C	<b>4970</b>	\$107.86
HC 138	<b>4992</b>	\$77.36
HC 138A	<b>4995</b>	\$170.53
HC 218	<b>5050</b>	\$99.49
HC 218A	<b>5051</b>	\$169.77
HC 228H	<b>5054</b>	\$214.48
HC 238A, 238B	<b>5065</b>	\$176.63

<b>P&amp;H</b>	<b>[ P&amp;H ]</b>	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
440 TC	<b>7240</b>	\$75.89
650A TC	<b>7720</b>	\$106.35
670 TC	<b>7790</b>	\$109.93
790 TC	<b>7880</b>	\$99.34
8115A TC	<b>7950</b>	\$137.42

### **SANBLASTING EQUIPMENT [ SANBL ]**

**DELAY FACTOR = 0.51      OVERTIME FACTOR = 0.52**

Includes helmets, gauntlets, 30.5 meters(100 feet) of hose, pot, all control valves, nozzles and other attachments and accessories. Rated in accordance with the capacity of the pot measured in kilograms(pounds)of sand.

<b>REMOTE CONTROL ONLY</b>		<b>[ REMC ]</b>	
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
45 (100)	159 (350)	<b>010-035</b>	\$1.57
159 (350)	272 (600)	<b>035-060</b>	\$2.08
272 (600)	454 (1000)	<b>060-100</b>	\$2.10
454 (1000)	680 (1500)	<b>100-150</b>	\$2.64
680 (1500)	907 (2000)	<b>150-200</b>	\$2.94

### **SAWS, CHAIN AND EARTH AUGER ATTACHMENT [ SAWCH ]**

**DELAY FACTOR = 0.15      OVERTIME FACTOR = 0.86**

Hand held type, one or two man, gas, air or electric powered including all attachments and accessories. Blades, chains and tips shall be paid separately. Saws which cost less than \$500 are considered minor tools and are no longer listed. Rated in accordance with Mfr's kilowatts (horsepower).

<b>SAWS</b>	<b>[ SAW ]</b>	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
>3.7 (5)      30 amps @ 120V	<b>5-HP</b>	\$2.10

### **SAWS, CONCRETE AND MASONRY [ SAWCO ]**

**DELAY FACTOR = 0.18      OVERTIME FACTOR = 0.83**

Self powered gas, air or electric powered. Includes water ( but not water truck or trailer), coolant, cutting compounds and all attachments and accessories. Saw blades or abrasive discs shall be paid in accordance with the following sawkerf codes.

SINGLE & MULTI-BLADE		[ ABOP ]	
OPERATION			
Listed in accordance with Mfr's rated kilowatts (horsepower).			
OVER	TO	Code	Rate
0	7.5 (10)	0-10	\$2.68
7.5 (10)	14.9 (20)	10-20	\$5.91
14.9 (20)	24.6 (33)	20-33	\$11.72
24.6 (33)	33.6 (45)	33-45	\$13.51
33.6 (45)	48.5 (65)	45-65	\$16.57

### **BLADE SAWKERF [ ABSK ]**

The following allowance is entered on the extra work bill by using the length x depth per blade.

<u>UNITS</u>	<u>Code</u>	<u>Rate</u>
Rate /blade/ 30.5 m (100 lin ft) / 25 mm (inch) depth	<b>100'/IN</b>	\$18.00
Rate/blade/ 0.3 m (lin ft) / 25 mm (inch) depth	<b>LF-INDE</b>	\$0.18

**SCRAPERS, SELF PROPELLED****[ SCRSP ]****DELAY FACTOR = 0.16****OVERTIME FACTOR = 0.85**

Includes all attachments and accessories.

**CATERPILLAR****[ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
613	<b>1395</b>	\$54.22
613B	<b>1400</b>	\$62.42
613C	<b>1402</b>	\$79.30
615	<b>1415</b>	\$108.59
615C	<b>1416</b>	\$119.39
621B cushion hitch	<b>1680</b>	\$137.01
623B	<b>1700</b>	\$142.23
623E	<b>1702</b>	\$171.01
623F	<b>1703</b>	\$180.69
627B push pull	<b>1770</b>	\$180.35
627E non push-pull	<b>1772</b>	\$195.43
627E push-pull	<b>1773</b>	\$199.98
631C 67M5012 serial	<b>2170</b>	\$153.06
631D	<b>2180</b>	\$195.20
631E	<b>2185</b>	\$218.06
633C non cushion hitch	<b>2305</b>	\$148.00
633C cushion hitch	<b>2315</b>	\$147.81
633C 66M693 serial	<b>2320</b>	\$158.29
633D	<b>2330</b>	\$204.72
637 cushion, non-push-pull	<b>2375</b>	\$223.37
637 non-cushion, push-pull	<b>2410</b>	\$225.53
637D non push-pull	<b>2460</b>	\$280.06
637D push-pull	<b>2470</b>	\$283.86
639D	<b>2475</b>	\$293.21
637E	<b>2476</b>	\$311.98
637E push-pull	<b>2477</b>	\$317.18
641B non cushion hitch	<b>2620</b>	\$187.70
641B cushion hitch	<b>2655</b>	\$229.40
651B non cushion hitch	<b>2935</b>	\$234.82
651B cushion hitch	<b>2970</b>	\$237.18
651E	<b>2975</b>	\$304.10
657B non cushion, non p-p	<b>3360</b>	\$364.99
657B cushion, push-pull	<b>3370</b>	\$371.21
657E non push-pull	<b>3375</b>	\$446.30
657E push-pull	<b>3380</b>	\$464.49
660B	<b>3470</b>	\$214.19
666B	<b>3600</b>	\$334.76

**JOHN DEERE****[ DEER ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
JD 760A	<b>3845</b>	\$53.64
JD 762	<b>3860</b>	\$67.53
JD 762A	<b>3865</b>	\$71.58
JD 762B	<b>3866</b>	\$86.08

JD 860A	<b>3920</b>	\$79.58
JD 860B	<b>3930</b>	\$83.69
JD 862	<b>3940</b>	\$100.76
JD 862B	<b>3942</b>	\$126.70

**INTERNATIONAL****[ INTL ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
412B	<b>5631</b>	\$69.09
431B	<b>5637</b>	\$134.86
433B	<b>5643</b>	\$193.61

**TEREX****[ TERX ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
S 11EB	<b>8245</b>	\$54.45
S 23E 33TOT-H-93SH, elev	<b>8250</b>	\$130.88
S 24 49LOT-76SH serial	<b>8260</b>	\$164.94
S 24B 023-024 serial	<b>8270</b>	\$203.51
S 24C	<b>8275</b>	\$224.33

**WABCO****[ WAB ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
101F	<b>8570</b>	\$61.34
101G	<b>8575</b>	\$63.73
111A	<b>8640</b>	\$59.21
222G	<b>8700</b>	\$116.53
222H	<b>8704</b>	\$133.35

**TRACTORS, CRAWLER****[ TRACC ]****DELAY FACTOR = 0.17****OVERTIME FACTOR = 0.84**

Includes all attachments and accessories such as dozer blade and power control blocks when needed, but does not include backhoe, winch or ripper units listed elsewhere in this schedule.

**CASE****[ CASE ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
350	<b>1820</b>	\$24.30
350B	<b>1825</b>	\$26.28
450	<b>1868</b>	\$21.52
450B	<b>1869</b>	\$25.03
450C	<b>1869E</b>	\$27.88
475	<b>1870</b>	\$36.06
550	<b>2000</b>	\$29.05
650	<b>2100</b>	\$34.21
850	<b>2128</b>	\$28.71
850B	<b>2130</b>	\$31.36
850C	<b>2135</b>	\$34.78
850D	<b>2140</b>	\$36.81
1150B	<b>2250</b>	\$43.34
1150C	<b>2255</b>	\$48.69
1150D	<b>2257</b>	\$49.97
1150E	<b>2258</b>	\$51.86

<b>CATERPILLAR</b>			<b>[ CAT ]</b>		D-8R	<b>4870</b>	\$161.55
<u>Model</u>	<u>Code</u>	<u>Rate</u>			D-9H	<b>5160</b>	\$174.38
D-3	<b>2340</b>	\$24.98			D-9L	<b>5165</b>	\$211.92
D-3B	<b>2345</b>	\$28.01			D-9N	<b>5170</b>	\$183.73
D-3 LGP	<b>2350</b>	\$25.59			D-9R	<b>5175</b>	\$217.46
D-3B LGP	<b>2355</b>	\$29.21			D-10	<b>5220</b>	\$325.48
D-3B SA	<b>2370</b>	\$31.00			D-10N	<b>5225</b>	\$267.32
D-3C	<b>2380</b>	\$29.93			D-10R	<b>5227</b>	\$299.51
D4C Series III	<b>2450</b>	\$38.83			D-11N	<b>5230</b>	\$420.62
D-4D	<b>2655</b>	\$30.10			<b>JOHN DEERE</b>		
D-4E direct drive	<b>2660</b>	\$32.05			<b>[ DEER ]</b>		
D-4E power shift	<b>2665</b>	\$33.29			<u>Model</u>	<u>Code</u>	<u>Rate</u>
D-4H	<b>2670</b>	\$41.96			JD 350C	<b>5360</b>	\$27.26
D-4H LGP	<b>2675</b>	\$42.33			JD 350D	<b>5365</b>	\$30.39
D-4H Series II	<b>2680</b>	\$43.12			JD 400G	<b>5405</b>	\$26.36
D-4E SA	<b>2772</b>	\$38.09			JD 450C	<b>5474</b>	\$28.04
D-4E LGP power shift	<b>2780</b>	\$33.47			JD 450D	<b>5476</b>	\$29.16
D-4E LGP direct drive	<b>2782</b>	\$33.47			JD 450E	<b>5478</b>	\$29.41
D-4G XL	<b>2790XL</b>	\$39.69			JD 450G	<b>5479</b>	\$32.45
D-5	<b>3194</b>	\$43.56			JD 450J LT/LGP	<b>5479J</b>	\$40.53
D-5B power shift	<b>3206</b>	\$46.72			JD 550	<b>5480</b>	\$31.78
D-5B SA	<b>3325</b>	\$50.33			JD 550A	<b>5481</b>	\$34.45
D-5B LGP	<b>3345</b>	\$49.28			JD 550B	<b>5483</b>	\$33.23
D-5C	<b>3346</b>	\$41.93			JD 550G	<b>5484</b>	\$38.00
D-5H	<b>3347</b>	\$56.36			JD 650G	<b>5484A</b>	\$42.48
D-5H Series II	<b>3348</b>	\$60.18			JD 650H LGP	<b>5484H</b>	\$46.25
D-5H LGP	<b>3350</b>	\$59.27			JD 750	<b>5485</b>	\$49.98
D-6C direct drive	<b>3645</b>	\$56.09			JD 750B	<b>5486</b>	\$54.89
D-6C power shift	<b>3688</b>	\$56.70			JD 750 LGP	<b>5487</b>	\$52.81
D-6C LGP	<b>3710</b>	\$59.11			JD 750B LGP	<b>5488</b>	\$67.28
D-6D	<b>3720</b>	\$67.01			JD 850	<b>5490</b>	\$65.25
D-6D SA	<b>3725</b>	\$74.45			JD 850B	<b>5491</b>	\$75.39
D-6D LGP	<b>3730</b>	\$67.44			JD 850 LGP	<b>5492</b>	\$69.82
D-6H	<b>3732</b>	\$75.61			JD 850B LGP	<b>5495</b>	\$82.32
D-6H Series II	<b>3733</b>	\$80.03			<b>DRESSER</b>		
D-6H LGP	<b>3735</b>	\$79.98			<b>[ DRES ]</b>		
D-6M LGP	<b>3745</b>	\$75.70			<u>Model</u>	<u>Code</u>	<u>Rate</u>
D-6N XL	<b>3755</b>	\$78.12			TD 7E	<b>9100</b>	\$29.01
D-6R DS	<b>3800</b>	\$85.81			TD 7G	<b>9102</b>	\$32.46
D-6R XL	<b>3815</b>	\$89.93			TD 8E	<b>9105</b>	\$35.51
D-7G	<b>4180</b>	\$102.01			TD 8G	<b>9107</b>	\$38.56
D-7G LGP	<b>4200</b>	\$97.99			TD 12	<b>9110</b>	\$51.32
D-7G SA	<b>4210</b>	\$104.66			TD 12 LGP	<b>9115</b>	\$58.68
D-7H	<b>4215</b>	\$104.53			TD 15C	<b>9120</b>	\$73.80
D-7H Series II	<b>4216</b>	\$113.58			TD 15E	<b>9122</b>	\$89.32
D-7H LGP	<b>4220</b>	\$110.74			TD 15C LGP	<b>9125</b>	\$71.04
D-8K	<b>4858</b>	\$131.77			TD 20E	<b>9130</b>	\$96.78
D-8L	<b>4862</b>	\$160.92			TD 20G	<b>9135</b>	\$120.44
D-8L SA	<b>4863</b>	\$170.29			TD 20G LGP	<b>9137</b>	\$127.80
D-8N	<b>4864</b>	\$146.04			TD 25E	<b>9139</b>	\$136.79
					TD 25G	<b>9140</b>	\$175.47



**FIAT-ALLIS****[ F-A ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
10C	<b>6043</b>	\$56.92
10C LGP	<b>6044</b>	\$57.78
14C	<b>6048</b>	\$71.65
FD 20	<b>6056</b>	\$102.42
21C	<b>6060</b>	\$117.25
FD 30	<b>6060E</b>	\$139.05
31	<b>6061</b>	\$187.10
FD 40	<b>6061E</b>	\$216.72

**KOMATSU****[ KOMA ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
D 21P-6	<b>7965</b>	\$30.07
D 31A-16	<b>7970</b>	\$26.39
D 31A-17	<b>7972</b>	\$29.30
D 31E-17	<b>7976</b>	\$30.41
D 31E-18	<b>7977</b>	\$32.72
D 31P-16	<b>7980</b>	\$26.77
D 31P-17	<b>7981</b>	\$30.01
D 31P-17B	<b>7981E</b>	\$31.40
D 58E-1	<b>8003</b>	\$59.64
D 58P-1	<b>8003H</b>	\$67.30
D 65E-6	<b>8070</b>	\$68.36
D 65E-7, E-8	<b>8072</b>	\$77.00
D 65P-6	<b>8080</b>	\$71.00
D 65P-7 / D 65P-8	<b>8082</b>	\$80.35
D 68P-1	<b>8083</b>	\$88.75
D 68E-1	<b>8085</b>	\$83.74
D 83E-1	<b>8087</b>	\$103.74
D 83P-1	<b>8088</b>	\$105.08
D 85P-18	<b>8090</b>	\$111.98
D 85A-18	<b>8114</b>	\$95.25
D 85E-12	<b>8120</b>	\$82.82
D 85E-18	<b>8140</b>	\$105.22
D 135A-1	<b>8150</b>	\$135.07
D 155A-1	<b>8160</b>	\$157.08
D 155A-2	<b>8161</b>	\$156.68
D 375A-1	<b>8175</b>	\$249.46
D 375A-2	<b>8176</b>	\$281.13
D 455A-1	<b>8180</b>	\$306.30
D 475A-2	<b>8186</b>	\$444.80

**TRACTORS, HEAVY****[ TRACH ]****DELAY FACTOR = 0.17****OVERTIME FACTOR = 0.84**

Includes all attachments and accessories such as dozer blade, power control units and push blocks, when needed, but does not include backhoe, winch or ripper units listed elsewhere in this schedule.

**CATERPILLAR****[ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
814	<b>1400</b>	\$92.91
814B	<b>1410</b>	\$140.63
824B	<b>1720</b>	\$148.00
824C	<b>1730</b>	\$186.74
834B	<b>2010</b>	\$283.71

**TRACTORS, RUBBER TIRE,  
INDUSTRIAL, FARM & SKID STEER**
**[ TRACS ]****DELAY FACTOR = 0.14****OVERTIME FACTOR = 0.87****37.3 kW (50 HP) OR LESS****[ <50 ]**

Including, but not limited to the following:

Bobcat--440B, 443B, 450, 453, 542B, 543B, 553, 742B, 743B, 753, 763, 773, 1840, 7753

Case-- 1818, 1825, 1835C, 1838

Deere-- 3375, 4475, 5200, 5575, 6675, 7775

Ford-- L250, L454, L455, L553, L555, L781

Gehl-- SL3310, SL3410, SL3725, SL3825, SL4525, SL4625

Hydra-Mac-- 1300, 1600, 1700D

JCB-- 165Robot, 165Robot Ser II

Massey-Ferguson-- MF30E

Mahto-- LS70, LS75, L933

Mustang-- 920, 920E, 921, 930A, 930AE, 940, 940E, 910, 911, 2040

New Holland-- 1220, 1320, 1620, 1920, 2120, 3415, 3930, L250, L255, L465, LX465, LX485, L565, LX565, LX665

Ramrod-- 230B, 300B, 584B, 784B, 550, 750, 1350, 1550

Thomas-- T-82, T-83, T-83S, T-103, T-132, T-133, T-133S

Trak-- 1300HD, 1300C, 1300CX, 1500C

<u>Model</u>	<u>Code</u>	<u>Rate</u>
with loader or dozer	<b>A</b>	\$21.70
auger, w/ or w/o loader or dozer	<b>B</b>	\$22.12
backhoe, w/ or w/o loader or dozer	<b>C</b>	\$23.65

**OVER 37.3 kW (50 HP) [ >50 ]**

Including, but not limited to the following:

Bobcat-- 853, 863, 873, 943, 953, 980

Case-- 1845C

Deere-- 5300, 5400, 6200, 6300, 6400, 8875

Ford-- L783, L785, 250C, 260C

Gehl-- SL5625, SL6625, SL6635

Hydra-Mac-- 1850, 2650, 2650D

JCB-- 185Robot

Massey-Ferguson-- MF40E, MF50EX

Mustang-- 960, 2060

New Holland-- 4630, 5030, 5640, 6640, 7740, 7840, 8240, 8340,

L865, LX865, LX885, 345D, 545D

Ramrod-- 1750, 1950

Thomas-- T-173HL, T-173HLS, T173HLS II, T-203HD, T-233HD

Trak-- 1700HD, 1700C, 1700CX, 1700XHP

<u>Model</u>	<u>Code</u>	<u>Rate</u>
with loader or dozer	<b>A</b>	\$29.46
auger, w/ or w/o loader or dozer	<b>B</b>	\$29.99
backhoe, w/ or w/o loader or dozer	<b>C</b>	\$31.59

**TRAFFIC CONTROL & SAFETY DEVICES [ TRAF A ]  
(HOURLY RATES)****DELAY FACTOR = 0.37****OVERTIME FACTOR = 0.68****CHANGEABLE MESSAGE SIGN [ CMSN ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Generator	<b>GEN1</b>	\$13.18
Generator w/ cell remote	<b>GEN2</b>	\$14.46
Solar	<b>SOL1</b>	\$9.89
Solar w/ cell remote	<b>SOL2</b>	\$11.17

**FLASHING ARROW SIGN [ FLAS ]**

Including supplies, replacements and servicing.

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Roof mounted	<b>RM</b>	\$0.87
Trailer mounted	<b>TM</b>	\$2.85

**TRAFFIC CONTROL & SAFETY DEVICES [ TRAF C ]  
(DAILY RATES)****DELAY FACTOR = 0.72****OVERTIME FACTOR = 1.00**

Includes supplies and servicing. The following allowance is entered on the extra work by using days instead of hours worked. Crash cushion barrels and K-rail sections are now listed with Non-Operated items[NONOP].

**(1) BARRICADES [ 1BAR ]**

(A) 750 mm to 900 mm high &amp; 600 mm to 900 mm wide (30 to 36 inches high &amp; 24 to 36 inches wide)

(B) 1500 mm high by 1200 mm wide min. (60" high by 48" wide min.)

<u>Model</u>	<u>Code</u>	<u>Rate</u>
each with flasher	<b>A1</b>	\$0.47
each without flasher	<b>A2</b>	\$0.24
each	<b>B3</b>	\$1.06

**(2) TRAFFIC CONES [ 2TC ]**

Lost or destroyed are no longer paid on invoice.

<u>Model</u>	<u>Code</u>	<u>Rate</u>
450 mm (18") high, per 100	<b>A100</b>	\$8.53
700 mm (28") high, per 100	<b>B100</b>	\$14.83
700 mm (28") high w/ refl sleeve, per 100	<b>D100</b>	\$22.92
1,050 mm (42") high w/ refl sleeve, per 100	<b>E100</b>	\$38.12

**(3) PORTABLE DELINEATOR [ 3DEL ]**

Lost or destroyed are no longer paid on invoice.

<u>Model</u>	<u>Code</u>	<u>Rate</u>
per 100	<b>100</b>	\$24.31

**(4) ILLUMINATED SIGNS [ 4SIG ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
incl 900 mm x900 mm (3'x3') sign & batteries	<b>12V</b>	\$5.92

**(5) FLASHING BEACON [ 5BEA ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
portable 12 volt	<b>12V</b>	\$6.04

**(6) FLAG/SIGN STAND [ 6FSS ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
incl sign, stand & 3 flags	<b>EACH</b>	\$2.73

**(7) DELINEATOR DRUM [ 7DDR ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Del. drum w/ base per 100	<b>100</b>	\$60.36

**TRAILERS, EQUIPMENT, LOW BED [ TRAIL ]****DELAY FACTOR = 0.42****OVERTIME FACTOR = 0.64**

Includes all attachments and accessories related to hauling. The rates cover drop deck type with and without folding/removable gooseneck or oscillating trunion. Pilot vehicles are extra. Listed in accordance with number of axles and tires per axle. Includes jeeps, booster axles, and dollies. All loads shall be hauled legally or within Caltrans Permit Policy.

**LOW BED A [ LB-A ]**

2 axle

<u>Model</u>	<u>Code</u>	<u>Rate</u>
4 Tires per axle	<b>100</b>	\$14.57
8 Tires per axle	<b>200</b>	\$18.37

**LOW BED B [ LB-B ]**

3 axle

<u>Model</u>	<u>Code</u>	<u>Rate</u>
4 Tires per axle	<b>300</b>	\$19.55
8 Tires per axle	<b>400</b>	\$22.66

**LOW BED C [ LB-C ]**

4 axle

<u>Model</u>	<u>Code</u>	<u>Rate</u>
4 Tires per axle	<b>500</b>	\$31.39
8 Tires per axle	<b>600</b>	\$38.96

**LOW BED D [ LB-D ]**

6 axle

<u>Model</u>	<u>Code</u>	<u>Rate</u>
8 Tires per axle	<b>700</b>	\$62.39

**TRAILERS, EQUIPMENT, TILT BED [ TRAIT ]****DELAY FACTOR = 0.42 OVERTIME FACTOR = 0.64**

Includes all attachments and accessories related to hauling. Pilot vehicles are extra. Listed in accordance with the Mfr's rated capacity in tonnes(tons).

**TILT BED 1 AXLE [ TB-1 ]**

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	1.8 (2)	<b>00-02</b>	\$0.78
1.8 (2)	3.6 (4)	<b>02-04</b>	\$0.83

**TILT BED 2 AXLES [ TB-2 ]**

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
3.6 (4)	5.4 (6)	<b>04-06</b>	\$1.38
7.3 (8)	9.1 (10)	<b>08-10</b>	\$4.27
9.1 (10)	10.9 (12)	<b>10-12</b>	\$4.92
10.9 (12)	12.7 (14)	<b>12-14</b>	\$5.54
12.7 (14)	14.5 (16)	<b>14-16</b>	\$6.16
14.5 (16)	16.3 (18)	<b>16-18</b>	\$5.95
16.3 (18)	18.1 (20)	<b>18-20</b>	\$5.75
18.1 (20)	20.0 (22)	<b>20-22</b>	\$6.59
20.0 (22)	22.7 (25)	<b>22-25</b>	\$6.41

**TRENCHING MACHINES [ TRENC ]****DELAY FACTOR = 0.14 OVERTIME FACTOR = 0.88**

Includes all attachments and accessories. When used, tungsten carbide tips shall be replaced by separate invoice.

**BOBCAT [ BCAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
T 116	<b>2000</b>	\$10.48
T 135	<b>2010</b>	\$24.32
T 136	<b>2020</b>	\$24.64
T 208	<b>2030</b>	\$5.47
3022	<b>2040</b>	\$25.10

**CASE [ CASE ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TL 70	<b>9051</b>	\$4.38
TL 100	<b>9053</b>	\$6.32
TL 120	<b>9055</b>	\$7.63
TL 200	<b>9070</b>	\$7.80
16+4	<b>9120</b>	\$11.51
25+4	<b>9170</b>	\$15.96
25 + 4 XP	<b>9171</b>	\$20.23
30+4 standard	<b>9224</b>	\$22.72
DH 4	<b>9255</b>	\$30.18
DH 4B	<b>9256</b>	\$33.14

DH 5	<b>9257</b>	\$29.83
DH 5 QUAD	<b>9259</b>	\$31.14
DH 7	<b>9261</b>	\$35.21
360	<b>9263</b>	\$24.83
ROAD RUNNER 380	<b>9277</b>	\$32.57
TF 300	<b>9374</b>	\$15.64
TF 700	<b>9398</b>	\$20.23
TF 800	<b>9405</b>	\$26.34
TF 1000	<b>9460</b>	\$31.60
760	<b>9465</b>	\$33.05

**DITCH WITCH****[ D-W ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
R 30	<b>5390</b>	\$20.44
R 36D	<b>5400</b>	\$25.02
R 40	<b>5432</b>	\$26.80
R 65	<b>5556</b>	\$27.42
R 100	<b>5565</b>	\$70.83
V 30	<b>5618</b>	\$19.28
1410	<b>5620</b>	\$7.96
1420	<b>5625</b>	\$8.62
1500	<b>5630</b>	\$5.90
1620	<b>5635</b>	\$11.21
1810	<b>5640</b>	\$11.57
2020	<b>5645</b>	\$14.81
2200	<b>5650</b>	\$13.86
2300	<b>5660</b>	\$20.80
2310	<b>5662</b>	\$21.79
3210	<b>5670</b>	\$23.98
3210 Combo	<b>5675</b>	\$24.85
3500	<b>5676</b>	\$28.32
4010	<b>5677</b>	\$35.69
4010 Combo	<b>5678</b>	\$28.59
5010	<b>5679</b>	\$28.22
6510	<b>5680</b>	\$34.09
6510 Combo	<b>5685</b>	\$37.19

**MIDMARK****[ MDMK ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
300 A	<b>7945</b>	\$20.26
321	<b>7950</b>	\$21.53
400 A	<b>7955</b>	\$26.08
440	<b>7960</b>	\$33.19

**VERMEER**

[ VERM ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
CC-135	<b>8350</b>	\$76.72
M 220	<b>8380</b>	\$13.50
M 455 / M455A	<b>8480</b>	\$33.58
M 475	<b>8570</b>	\$35.80
M 475A	<b>8571</b>	\$40.03
M 485	<b>8580</b>	\$39.91
M 495	<b>8585</b>	\$63.14
T 300B, T 300A	<b>8718</b>	\$21.23
T 400C, T 400B, T 400A	<b>8781</b>	\$48.33
T 600D, C, B, A	<b>8842</b>	\$70.03
T 650	<b>8843</b>	\$119.32
T 800B, T 800A, T800	<b>8870</b>	\$112.74
T 800C	<b>8871</b>	\$122.77
T 850	<b>8875</b>	\$219.13
V 430	<b>8950</b>	\$24.38
V 430A	<b>8951</b>	\$27.54
V 434 / M 434	<b>9000</b>	\$23.50
V 440	<b>9015</b>	\$26.55
V 450	<b>9017</b>	\$32.08
V 454	<b>9020</b>	\$27.41
V 1550	<b>9025</b>	\$12.71

**TRUCK, TRUCK TRAILERS, EXCL.  
DUMP TRUCKS & EQPT TRAIL**

[ TRUCK ]

**DELAY FACTOR = 0.18****OVERTIME FACTOR = 0.84**

Includes all attachments and accessories related to hauling, with and without trailers as needed. Includes water trucks, freight trucks and passenger vehicles, including 4wd option. Listed by Mfr's Gross Vehicle Weight in Kilograms(pounds). For tractor-trailer units, the gross vehicle weight of the cargo carrying unit or units will control. In the case of water trucks, the tank capacity expressed in kilograms (pounds) of water plus 20%, will determine the gross vehicle weight. For attachment allowance, see attachment class.

**TRUCKS**

[ T&amp;TT ]

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
<b>CARS , LIGHT TRUCKS</b>			
3175 (7000)	5443 (12000) No small pickups	<b>06-12</b>	\$20.29
5443 (12000)	9072 (20000)	<b>12-20</b>	\$25.30
9072 (20000)	12701(28000)	<b>20-28</b>	\$27.77
12701 (28000)	16330 (36000)	<b>28-36</b>	\$36.46
16330 (36000)	21773 (48000)	<b>36-48</b>	\$42.54
21773 (48000)	27216 (60000)	<b>48-60</b>	\$51.63
27216(60000) & Over		<b>60</b>	\$65.21

**TRUCKS, OFF-HIGHWAY**

[ TRUOF ]

**DELAY FACTOR = 0.24****OVERTIME FACTOR = 0.78**

Includes all attachments and accessories. Includes end dump, belly dump and earthmover types. Listed in accordance with Mfr's rated capacity in tonnes (tons). In the case of earthmover types, rated by Mfr's volumetric capacity, a factor of 1.4 tonnes per cubic meter (1-1/2 tons per cubic yard) of struck capacity shall be used.

**TRUCK OFF-HIGHWAY**

[ TRU ]

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
9.1 (10)	13.6 (15)	<b>10-15</b>	\$40.28
16.3 (18)	20.0 (22)	<b>18-22</b>	\$72.63
20.0 (22)	24.5 (27)	<b>22-27</b>	\$90.38
24.5 (27)	29.0 (32)	<b>27-32</b>	\$103.55
29.0 (32)	36.3 (40)	<b>32-40</b>	\$139.88
36.3 (40)	49.9 (55)	<b>40-55</b>	\$205.30
49.9 (55)	60.8 (67)	<b>55-67</b>	\$231.02

**TRUCKS, DUMP, ON-HIGHWAY**

[ TRUON ]

**DELAY FACTOR = 0.21****OVERTIME FACTOR = 0.81**

Includes all end dump, side dump and belly dump types; including all attachments and accessories.

**TRUCK ON-HIGHWAY**

[ TRUN ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
2 axles	<b>2AXL</b>	\$42.84
3 axles	<b>3AXL</b>	\$57.70
4 axles	<b>4AXL</b>	\$66.21
5 axles	<b>5AXL</b>	\$72.78

**WELDING EQUIPMENT**

[ WELD ]

**DELAY FACTOR = 0.22****OVERTIME FACTOR = 0.81****ARC WELDING MACHINES**

[ AWM ]

Diesel, gas or electric powered. Includes helmets, holders, cable and all attachments and accessories. Rate capacity in amps.

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	250	<b>0-250</b>	\$4.36
250	500	<b>250-500</b>	\$8.33
over	500	<b>500</b>	\$8.94

**GAS WELDING OUTFIT**

[ GWO ]

Includes regulator, 7.6 meters (25 feet) of hose, torch, goggles, lighter and attachments and accessories. Gas and rod shall be paid separately.

<u>Model</u>	<u>Code</u>	<u>Rate</u>
ALL	<b>ALL</b>	\$0.27

## **EXHIBIT L**

### **NOTICE OF EXEMPTION**

## NOTICE OF EXEMPTION

(Check one or both)

TO:   X   Recorder/County Clerk  
P.O. Box 1750, MS A-33  
1600 Pacific Hwy, Room 260  
San Diego, CA 92101-2400

FROM: City of San Diego  
Development Services Department  
1222 First Avenue, MS 501  
San Diego, CA 92101

       Office of Planning and Research  
1400 Tenth Street, Room 121  
Sacramento, CA 95814

Project No.: B-18133.02.06

Project Title: 8893 Revelstoke Way Emergency Storm Drain Replacement

Project Location-Specific: This project is located at approximately 8893 Revelstoke Way in the Mira Mesa Community Planning Area within the City of San Diego, Council District 6.

Project Location-City/County: San Diego/San Diego County

Description of nature and purpose of the Project: After a recent inspection of the storm drain located at 8893 Revelstoke Way, it was determined by City engineers that the storm drain has deteriorated to the point that future storm water flows could comprise the structural integrity of the adjacent street and sidewalk. In order to protect City infrastructure and maintain residential access, immediate repair and replacement of the storm drain is required. Emergency work will include removing the existing damaged storm drain structure, creating temporary construction access along the alignment of the storm drain, geotechnical testing, backfilling erosion, installing a new 30-inch reinforced concrete pipe (RCP), installing a new concrete headwall, installation of riprap at the outfall, and then backfilling and re-contouring the area to pre-impact conditions. Following completion of the project, the area will be revegetation to stabilize soils and prevent future erosion. This project is located in the MHPA, and a biological monitor will be present to ensure impacts to biological resources are minimized to the greatest extent practicable. This project is not expected to result in permanent impacts to environmentally sensitive lands.

Name of Public Agency Approving Project: City of San Diego

Name of Person or Agency Carrying Out Project: City of San Diego, Public Works Dept  
Contact: Sean Paver  
525 B Street, Suite 750 (MS 908A), San Diego, CA 92101  
619-533-3629

Exempt Status: (CHECK ONE)

( x ) Statutory Exemptions: Emergency Project - Sec. 21080(b)(4); 15269 (b)(c)

Reasons why project is exempt: The emergency repairs are required in order to protect public health, safety and property. This determination is supported by the expert opinion of the City Engineer. The City of San Diego conducted an environmental review which determined that the project meets the statutory exemption criteria set forth in CEQA State Guidelines, Section (SEC. 21080(b)(4); 15269 (b)(c)), which allows for actions necessary to prevent or mitigate an emergency.

Lead Agency Contact Person: Carrie Purcell


Telephone: 619-533-5124

If filed by applicant:

1. Attach certified document of exemption finding.
2. Has a notice of exemption been filed by the public agency approving the project? ( ) Yes ( ) No

It is hereby certified that the City of San Diego has determined the above activity to be exempt from CEQA

  
\_\_\_\_\_  
Carrie Purcell, Assistant Deputy Director

  
\_\_\_\_\_  
Date

Check One:

- (X) Signed By Lead Agency  
( ) Signed by Applicant

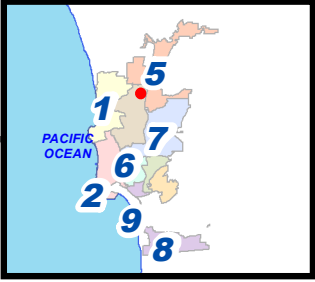
Date Received for Filing with County Clerk or OPR:

## **EXHIBIT M**

### **LOCATION MAP**



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## Revelstoke Way Storm Drain Emergency Repair

SENIOR ENGINEER  
Jong Choi  
619-533-5493

PROJECT MANAGER  
Jeff Cramoline  
619-533-3156

FOR QUESTIONS ABOUT THIS PROJECT  
Call: 619-533-4207  
Email: [engineering@sandiego.gov](mailto:engineering@sandiego.gov)



## **EXHIBIT N**

### **STORM WATER REQUIREMENTS APPLICABILITY CHECKLIST (FORM DS-560)**





City of San Diego  
Development Services  
1222 First Ave., MS-302  
San Diego, CA 92101  
(619) 446-5000

# Storm Water Requirements Applicability Checklist

FORM  
**DS-560**  
OCTOBER 2016

Project Address: **8893 Revelstoke Way, San Diego**

Project Number (for City Use Only):

## SECTION 1. Construction Storm Water BMP Requirements:

All construction sites are required to implement construction BMPs in accordance with the performance standards in the Storm Water Standards Manual. Some sites are additionally required to obtain coverage under the State Construction General Permit (CGP)<sup>1</sup>, which is administered by the State Water Resources Control Board.

**For all projects complete PART A: If project is required to submit a SWPPP or WPCP, continue to PART B.**

### PART A: Determine Construction Phase Storm Water Requirements.

1. Is the project subject to California's statewide General NPDES permit for Storm Water Discharges Associated with Construction Activities, also known as the State Construction General Permit (CGP)? (Typically projects with land disturbance greater than or equal to 1 acre.)

☐ Yes; SWPPP required, skip questions 2-4 ☒ No; next question

2. Does the project propose construction or demolition activity, including but not limited to, clearing, grading, grubbing, excavation, or any other activity resulting in ground disturbance and contact with storm water runoff?

☒ Yes; WPCP required, skip 3-4 ☐ No; next question

3. Does the project propose routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of the facility? (Projects such as pipeline/utility replacement)

☐ Yes; WPCP required, skip 4 ☐ No; next question

4. Does the project only include the following Permit types listed below?

- Electrical Permit, Fire Alarm Permit, Fire Sprinkler Permit, Plumbing Permit, Sign Permit, Mechanical Permit, Spa Permit.
- Individual Right of Way Permits that exclusively include only ONE of the following activities: water service, sewer lateral, or utility service.
- Right of Way Permits with a project footprint less than 150 linear feet that exclusively include only ONE of the following activities: curb ramp, sidewalk and driveway apron replacement, pot holing, curb and gutter replacement, and retaining wall encroachments.

☐ Yes; no document required

Check one of the boxes below, and continue to PART B:

☐ If you checked "Yes" for question 1,  
**a SWPPP is REQUIRED. Continue to PART B**

☒ If you checked "No" for question 1, and checked "Yes" for question 2 or 3,  
**a WPCP is REQUIRED.** If the project proposes less than 5,000 square feet of ground disturbance AND has less than a 5-foot elevation change over the entire project area, a Minor WPCP may be required instead. **Continue to PART B.**

☐ If you checked "No" for all questions 1-3, and checked "Yes" for question 4  
**PART B does not apply and no document is required. Continue to Section 2.**

☐ Minor WPCP

1. More information on the City's construction BMP requirements as well as CGP requirements can be found at:  
[www.sandiego.gov/stormwater/regulations/index.shtml](http://www.sandiego.gov/stormwater/regulations/index.shtml)

Printed on recycled paper. Visit our web site at [www.sandiego.gov/development-services](http://www.sandiego.gov/development-services).

Upon request, this information is available in alternative formats for persons with disabilities.

DS-560 (10-16)



**PART B: Determine Construction Site Priority**

This prioritization must be completed within this form, noted on the plans, and included in the SWPPP or WPCP. The city reserves the right to adjust the priority of projects both before and after construction. Construction projects are assigned an inspection frequency based on if the project has a "high threat to water quality." The City has aligned the local definition of "high threat to water quality" to the risk determination approach of the State Construction General Permit (CGP). The CGP determines risk level based on project specific sediment risk and receiving water risk. Additional inspection is required for projects within the Areas of Special Biological Significance (ASBS) watershed. **NOTE:** The construction priority does **NOT** change construction BMP requirements that apply to projects; rather, it determines the frequency of inspections that will be conducted by city staff.

**Complete PART B and continued to Section 2**

1. ☐ **ASBS**  
a. Projects located in the ASBS watershed.
2. ☐ **High Priority**  
a. Projects 1 acre or more determined to be Risk Level 2 or Risk Level 3 per the Construction General Permit and not located in the ASBS watershed.  
b. Projects 1 acre or more determined to be LUP Type 2 or LUP Type 3 per the Construction General Permit and not located in the ASBS watershed.
3. ☐ **Medium Priority**  
a. Projects 1 acre or more but not subject to an ASBS or high priority designation.  
b. Projects determined to be Risk Level 1 or LUP Type 1 per the Construction General Permit and not located in the ASBS watershed.
4. ☒ **Low Priority**  
a. Projects requiring a Water Pollution Control Plan but not subject to ASBS, high, or medium priority designation.

**SECTION 2. Permanent Storm Water BMP Requirements.**

Additional information for determining the requirements is found in the [Storm Water Standards Manual](#).

**PART C: Determine if Not Subject to Permanent Storm Water Requirements.**

Projects that are considered maintenance, or otherwise not categorized as "new development projects" or "redevelopment projects" according to the [Storm Water Standards Manual](#) are not subject to Permanent Storm Water BMPs.

**If "yes" is checked for any number in Part C, proceed to Part F and check "Not Subject to Permanent Storm Water BMP Requirements".**

**If "no" is checked for all of the numbers in Part C continue to Part D.**

1. Does the project only include interior remodels and/or is the project entirely within an existing enclosed structure and does not have the potential to contact storm water? ☐ Yes ☒ No
2. Does the project only include the construction of overhead or underground utilities without creating new impervious surfaces? ☒ Yes ☐ No
3. Does the project fall under routine maintenance? Examples include, but are not limited to: roof or exterior structure surface replacement, resurfacing or reconfiguring surface parking lots or existing roadways without expanding the impervious footprint, and routine replacement of damaged pavement (grinding, overlay, and pothole repair). ☐ Yes ☒ No



**PART D: PDP Exempt Requirements.**

PDP Exempt projects are required to implement site design and source control BMPs.

If "yes" was checked for any questions in Part D, continue to Part F and check the box labeled "PDP Exempt."

If "no" was checked for all questions in Part D, continue to Part E.

**1. Does the project ONLY include new or retrofit sidewalks, bicycle lanes, or trails that:**

- Are designed and constructed to direct storm water runoff to adjacent vegetated areas, or other non-erodible permeable areas? Or;
- Are designed and constructed to be hydraulically disconnected from paved streets and roads? Or;
- Are designed and constructed with permeable pavements or surfaces in accordance with the Green Streets guidance in the City's Storm Water Standards manual?

☐ Yes; PDP exempt requirements apply

☐ No; next question

**2. Does the project ONLY include retrofitting or redeveloping existing paved alleys, streets or roads designed and constructed in accordance with the Green Streets guidance in the City's Storm Water Standards Manual?**

☐ Yes; PDP exempt requirements apply

☐ No; project not exempt.

**PART E: Determine if Project is a Priority Development Project (PDP).**

Projects that match one of the definitions below are subject to additional requirements including preparation of a Storm Water Quality Management Plan (SWQMP).

If "yes" is checked for any number in PART E, continue to PART F and check the box labeled "Priority Development Project".

If "no" is checked for every number in PART E, continue to PART F and check the box labeled "Standard Development Project".

**1. New Development that creates 10,000 square feet or more of impervious surfaces collectively over the project site.** This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land.

☐ Yes ☐ No

**2. Redevelopment project that creates and/or replaces 5,000 square feet or more of impervious surfaces on an existing site of 10,000 square feet or more of impervious surfaces.** This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land.

☐ Yes ☐ No

**3. New development or redevelopment of a restaurant.** Facilities that sell prepared foods and drinks for consumption, including stationary lunch counters and refreshment stands selling prepared foods and drinks for immediate consumption (SIC 5812), and where the land development creates and/or replace 5,000 square feet or more of impervious surface.

☐ Yes ☐ No

**4. New development or redevelopment on a hillside.** The project creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site) and where the development will grade on any natural slope that is twenty-five percent or greater.

☐ Yes ☐ No

**5. New development or redevelopment of a parking lot that creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site).**

☐ Yes ☐ No

**6. New development or redevelopment of streets, roads, highways, freeways, and driveways.** The project creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site).

☐ Yes ☐ No



7. **New development or redevelopment discharging directly to an Environmentally Sensitive Area.** The project creates and/or replaces 2,500 square feet of impervious surface (collectively over project site), and discharges directly to an Environmentally Sensitive Area (ESA). "Discharging directly to" includes flow that is conveyed overland a distance of 200 feet or less from the project to the ESA, or conveyed in a pipe or open channel any distance as an isolated flow from the project to the ESA (i.e. not commingled with flows from adjacent lands). ☐ Yes ☐ No
8. **New development or redevelopment projects of a retail gasoline outlet (RGO) that create and/or replaces 5,000 square feet of impervious surface.** The development project meets the following criteria: (a) 5,000 square feet or more or (b) has a projected Average Daily Traffic (ADT) of 100 or more vehicles per day. ☐ Yes ☐ No
9. **New development or redevelopment projects of an automotive repair shops that creates and/or replaces 5,000 square feet or more of impervious surfaces.** Development projects categorized in any one of Standard Industrial Classification (SIC) codes 5013, 5014, 5541, 7532-7534, or 7536-7539. ☐ Yes ☐ No
10. **Other Pollutant Generating Project.** The project is not covered in the categories above, results in the disturbance of one or more acres of land and is expected to generate pollutants post construction, such as fertilizers and pesticides. This does not include projects creating less than 5,000 sf of impervious surface and where added landscaping does not require regular use of pesticides and fertilizers, such as slope stabilization using native plants. Calculation of the square footage of impervious surface need not include linear pathways that are for infrequent vehicle use, such as emergency maintenance access or bicycle pedestrian use, if they are built with pervious surfaces or if they sheet flow to surrounding pervious surfaces. ☐ Yes ☐ No

**PART F: Select the appropriate category based on the outcomes of PART C through PART E.**

1. The project is **NOT SUBJECT TO PERMANENT STORM WATER REQUIREMENTS.** ☒
2. The project is a **STANDARD DEVELOPMENT PROJECT.** Site design and source control BMP requirements apply. See the [Storm Water Standards Manual](#) for guidance. ☐
3. The project is **PDP EXEMPT.** Site design and source control BMP requirements apply. See the [Storm Water Standards Manual](#) for guidance. ☐
4. The project is a **PRIORITY DEVELOPMENT PROJECT.** Site design, source control, and structural pollutant control BMP requirements apply. See the [Storm Water Standards Manual](#) for guidance on determining if project requires a hydromodification plan management ☐

Jong Choi

Senior Engineer - Civil

Name of Owner or Agent (Please Print)

Title

Signature

Date

## **EXHIBIT O**

### **ADVANCED METERING INFRASTRUCTURE (AMI) DEVICE PROTECTION**

## **Protecting AMI Devices in Meter Boxes and on Street Lights**

The Public Utilities Department (PUD) has begun the installation of the Advanced Metering Infrastructure (AMI) technology as a new tool to enhance water meter reading accuracy and efficiency, customer service and billing, and to be used by individual accounts to better manage the efficient use of water. **All AMI devices shall be protected per Section 5-2, "Protection", of the 2015 Whitebook.**

AMI technology allows water meters to be read electronically rather than through direct visual inspection by PUD field staff. This will assist PUD staff and customers in managing unusual consumption patterns which could indicate leaks or meter tampering on a customer's property.

Three of the main components of an AMI system are the:

- A. Endpoints, see Photo 1:

**Photo 1**





- B. AMI Antenna attached to Endpoint (antenna not always required), see Photo 2:

**Photo 2**



Network Devices, see Photo 3:

**Photo 3**



AMI endpoints transmit meter information to the AMI system and will soon be on the vast majority of meters in San Diego. These AMI devices provide interval consumption data to the PUD's Customer Support Division. If these devices are damaged or communication is interrupted, this Division will be alerted of the situation. The endpoints are installed in water meter boxes, coffins, and vaults adjacent to the meter. A separate flat round antenna may also be installed through the meter box lid. This antenna is connected to the endpoint via cable. The following proper installation shall be implemented when removing the lid to avoid damaging the antenna, cable, and/or endpoint. Photo 4 below demonstrates a diagram of the connection:

**Photo 4**



The AMI device ERT/Endpoint/Transmitter shall be positioned and installed as discussed in this Appendix. If the ERT/Endpoint/Transmitter is disturbed, it shall be re-installed and returned to its original installation with the end points pointed upwards as shown below in Photo 5.

**The PUD's code compliance staff will issue citations and invoices to you for any damaged AMI devices that are not re-installed as discussed in the Contract Document**

Photo 5 below shows a typical installation of an AMI endpoint on a water meter.

**Photo 5**

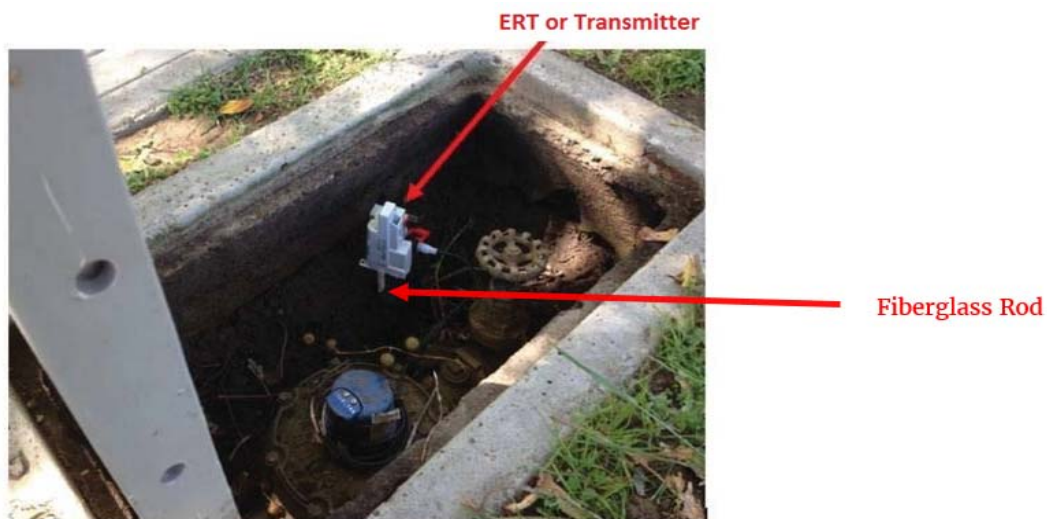


Photo 6 below is an example of disturbance that shall be avoided:

**Photo 6**



**You are responsible when working in and around meter boxes.** If you encounter these endpoints, use proper care and do not disconnect them from the registers on top of the water meter. If the lid has an antenna drilled through, do not change or tamper with the lid and inform the Resident Engineer immediately about the location of that lid. Refer to Photo 7 below:

**Photo 7**



Another component of the AMI system are the Network Devices. The Network Devices are strategically placed units (mainly on street light poles) that collect interval meter reading data from multiple meters for transmission to the Department Control Computer. **If you come across any of these devices on street lights that will be removed or replaced (refer to Photos 8 and 9 below), notify AMI Project Manager Arwa Sayed at (619) 362-0121 immediately.**

Photo 8 shows an installed network device on a street light. On the back of each Network Device is a sticker with contact information. See Photo 9. **Call PUD Water Emergency Repairs at 619-515-3525 if your work will impact these street lights.** These are assets that belong to the City of San Diego and you shall be responsible for any costs of disruption of this network.



**Photo 8**



**Network Device**

**Photo 9**



**If you encounter any bad installations, disconnected/broken/buried endpoints, or inadvertently damage any AMI devices or cables, notify the Resident Engineer immediately. The Resident Engineer will then immediately contact the AMI Project Manager, Arwa Sayed, at (619) 362-0121.**

## **EXHIBIT P**

### **LONG-TERM REVEGETATION MAINTENANCE CONTRACT**

## LONG-TERM REVEGETATION MAINTENANCE AGREEMENT

This Long-Term Revegetation Maintenance Contract (LTRMC) is made and entered into by and between the City of San Diego (City), a municipal corporation, and **ORION CONSTRUCTION CORPORATION** (Contractor), who may be individually or collectively referred to herein as a "Party" or the "Parties."

### RECITALS

Concurrent with execution of this LTRMC, the Parties entered into a general contract (Construction Contract) for the construction of REVELSTOKE (8893) WAY STORM DRAIN REPLACEMENT PROJECT, WBS number B-18133, Bid No. K-18-1745-EMR-3.

- A. In accordance with the Construction Contract, the Contractor shall enter into this contract with the City for the purpose of implementing and fulfilling long-term revegetation maintenance and monitoring requirements in accordance with the City of San Diego Municipal Code and the Contract Documents for the specified elopement(s) of REVELSTOKE (8893) WAY STORM DRAIN REPLACEMENT (Maintenance Requirements). The performance of the terms of this LTRMC shall commence immediately upon completion of performance of the Construction Contract.
- B. The Contractor is ready and willing to fulfill its maintenance requirements in accordance with the terms of this LTRMC.

NOW, THEREFORE, in consideration of the above recitals and the mutual covenants and conditions set forth herein, and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby set forth their mutual covenants and understandings as follows:

### INTRODUCTORY PROVISIONS

- A. **Recitals Incorporated.** The above referenced Recitals are true and correct and are incorporated into this LTRMC by this reference.
- B. **Exhibits Incorporated.** All Exhibits and Attachments referenced in this LTRMC are incorporated into this LTRMC by this reference.
- C. **Contract Term.** This LTRMC shall be effective upon completion of the Plant Establishment Period as described in SECTION 6 of the Construction Contract, and it shall be effective until completion of the Work, described in Section 1.1 below.
- D. **Terms and Conditions.** This LTRMC is subject to the terms and conditions of the Construction Contract included in The GREENBOOK and The 2015 WHITEBOOK i.e., Part 1, Sections 800 through 802 and The WHITEBOOK EOCP Section except as follows.
- E. **Partial Release of Payment Bond and Performance Bond**

- a. **Performance of Contract in Two Phases.** There are two separate phases of work to be performed by the Contractor under this Contract. The first phase covers the work involved in the original agreement as described in this agreement ("Phase 1 Work"). The second phase covers the work involved in the long-term maintenance of the plants contained within the Revegetation Area after Phase 1 Work has been completed ("Phase 2 Work").
- b. **Bond Handling for Contract Phases.** The Payment Bond and the Performance Bond covering Phase 1 Work on this Contract shall remain in full force and effort until completion of that phase is certified. The original Payment Bond and the original Performance Bond covering Phase 1 Work on this Contract shall continue in full force and effort for Phase 2 Work, however the value of each bond may be reduced as follows:
  - i. Completion by the Contractor of all Phase 1 Work shall be evidenced solely by the City Engineer affirming in writing that to the best of their knowledge that all Phase 1 Work has been completed by the Contractor in strict conformity with all City-approved plans and revisions, and that the Phase 1 Work completed by the Contractor meets all applicable standards ("Notice of Completion").
  - ii. Upon issuance by the City Engineer of the Notice of Completion for Phase 1 Work, the Payment guarantee provided under the Payment Bond for this Project, and the Performance guarantee provided under the Performance Bond for this Project, may be partially released, and thereby reduced, to an amount sufficient to cover all Phase 2 Work on this Project, with the remaining value of each bond type to be set and maintained through the date of completion of Phase 2 Work at a value not less than One Hundred Percent (100%) of the Project's highest bond value for each bond type, but under no circumstances to be reduced to less than the actual cost of completion of all Phase 2 Work for this Project, whichever is higher ("Partial Bond Release").
- c. **No Partial Release Upon Default.** No Partial Performance Bond Release and Reduction shall be given to the Contractor if the Performance Bond and/or this Agreement is in default.



## SECTION 1 - MAINTENANCE CONTRACT SUMMARY

- 1.1. General.** The Contractor shall fulfill the Project's Maintenance Requirements (Work) as identified in the scope of work attached as Exhibit A in a manner satisfactory to the City.

The Contractor shall provide all equipment, labor, and materials necessary to perform the **Work** as described in the written in Exhibit A, at the direction of the City.

- 1.2. Work Schedule.** After receiving notification from the City, the Contractor shall create a comprehensive schedule of Work for performance of this LTRMC (Schedule) for the City's approval. The Schedule shall include routine work and inspection and infrequent operations such as repairs, fertilization, aerification, watering, and pruning.

The City will approve the Schedule prior to the commencement of the Work. The City may require the Contractor to revise the Schedule. The Contractor shall not revise the Schedule unless the revisions have received the prior written approval of the City.

- 1.3. Commencement of Work & Maintenance Period.** This LTRMC shall commence when the City approves of the Plant Establishment Period and sends notice of the approval to the Contractor in accordance with SECTION 6 of the Construction Contract and shall continue for **25** months. A copy of the approval form is attached as Exhibit B.

- 1.4. Performance of Work.** The Work shall be performed in accordance with the manufacturer's **recommendations** for each piece of equipment used in performance by the Contractor of this LTRMC.

- 1.5. License.** The Contractor shall hold the following licenses in good standing:

- a) C-27 State Contractor's License. Alternatively, the Contractor shall retain the services of a Subcontractor with a C-27 State Contractor's License.
- b) Pest Control Advisor's License. Alternatively, the Contractor shall retain the services of a licensed Pest Control Advisor.
- c) Registration with the County Agriculture Commission.
- d) Qualified Applicator's Certificate for Category B. This shall apply to any person supervising the use of pesticides, herbicides, or rodenticides.
- e) City of San Diego Business License.

Prior to performing the Work, the Contractor shall complete and submit to the City the License Data Sheet. See Exhibit C.

- 1.6. Hours of Performance.** The Contractor shall perform the Work between the hours of 6:00 a.m. and 6:00 p.m., Monday through Friday (Working Hours). The City may, in its sole discretion, grant permission to Contractor to perform Work during non-Working Hours. Maintenance functions that generate excess noise, e.g., operations of power equipment which would cause annoyance to area residents, shall not begin before 7:00 a.m.

## SECTION 2 - ADMINISTRATION

- 2.1. Contract Administrator.** The Public Works Department is the Contract Administrator for the LTRMC. The Contractor shall perform the Work under the direction of a designated representative of the Public Works Department. The City will communicate with the Contractor on all matters related to the administration of this LTRMC and the Contractor's performance of the Work rendered hereunder. When this LTRMC refers to communications to or with City, those communications shall be with the City, unless the City or this LTRMC specifies otherwise. Further, when this LTRMC requires an act or approval by City, that act or approval will be performed by the City.
- 2.2. Local Office.** The Contractor shall maintain a local office with a competent company representative who can be reached during Normal Working Hours and who is authorized to discuss matters pertaining to this LTRMC with the City. A local office is one located in San Diego County that can be reached by telephone and facsimile. An answering service in conjunction with a company email address for the designated company representative would fulfill this requirement. A mobile telephone shall not fulfill the requirement for a local office. All calls to the Contractor from the City shall be returned within a 1-hour period.
- 2.3. Emergency Calls.** The Contractor shall have the capability to receive and to respond immediately to calls of an emergency nature. The City shall refer emergency calls to Contractor for immediate disposition. The Contractor shall provide City with a 24 hour emergency telephone number for this purpose.
- 2.4. Staffing.** The Contractor shall furnish sufficient supervisory and working personnel capable of promptly accomplishing on schedule, and to the satisfaction of City, all Work required under this LTRMC.
- 2.5. Contractor Inspections.** The Contractor shall perform inspections of the Work site and prepare and submit to the City a Punchlist and dates of correction. The Punchlist shall include a comprehensive report of Work performed at the Work site to ensure 100% cover.

## PART 3: WORK SITE MAINTENANCE

- 3.1. Use of Chemicals.** The Contractor shall submit to City for approval sample labels and MSDS for all chemical herbicides, rodenticides and pesticides proposed for use under this LTRMC. Materials included shall be limited to chemicals approved by the State of California Department of Agriculture.

The use of any chemical shall be based on the recommendations of a licensed pest control advisor. Annual PCA Pesticide Recommendations are required for each pesticide proposed to be used for the Work site covered by this LTRMC. The use of chemicals shall conform to the current San Diego County Department of Agriculture regulations.

No chemical herbicide, rodenticide, or pesticide shall be applied until its use is approved, in writing, by City as appropriate for the purpose and area proposed.

The Contractor shall submit a monthly pesticide use report to City along with Contractor's invoices for payment. This report shall include a statement of all applications of herbicides, rodenticides, and pesticides, detailing the chemical used, undiluted quantity, rate of application, applicator's name, and the date and purpose of the application. For months in which no pesticides are applied, state "No Pesticide Used" on the report.

- 3.2. Irrigation Water.** The Contractor shall diligently practice water conservation, including minimizing run-off or other waste. The Contractor shall turn off irrigation systems, if any, during periods of rainfall and at such other times when suspension of irrigation is desirable to conserve water and to remain within the guidelines of good horticultural landscape maintenance practices in accordance with instructions from the Project Biologist. The Contractor's failure to properly manage and conserve water may result in deductions from the monthly payment to be made to the Contractor under this LTRMC, or other penalties.

If Contractor causes excessive use or waste of irrigation water, the estimated cost of that water shall be deducted from the monthly payment. Further, any monetary fines or other damages assessed to City for Contractor's failure to follow water conservation regulations imposed by the City, the Public Utilities Department of the City of San Diego, and where appropriate the State of California, the County Water Authority, or other legal entity shall be solely the responsibility of the Contractor, and may be deducted from the monthly payment to be made to the Contractor under this LTRMC.

- 3.3. Payment for Water.** The Contractor shall pay for the water used in the maintenance of the Work site and this cost is included in the price of this LTRMC.
- 3.4. Satisfactory Progression.** If the Revegetation Area is not progressing towards the required 100% Cover, as defined in the Scope of Work, in accordance with the Work Schedule, as determined by City, City may adjust monthly payments to Contractor accordingly.

#### **SECTION 4: COMPENSATION**

- 4.1. Maximum Compensation.** The compensation for this LTRMC will be included in the **Contract Price** in **Section 5** of the above Agreement.
- 4.2. Wage Rates.** Refer to the Construction Contract for Prevailing wages requirements for this LTRMC.
- 4.3. Method of Payment and Reports.** The payments will be made monthly in direct proportion that each month bears to the total value of the Contract Price. As conditions precedent to payment, the Contractor shall submit every month a detailed invoice and report of maintenance work performed. The Contractor's failure to submit the required

reports or certified payrolls as described in the Construction Contract shall constitute a basis for withholding of payment by the City.

- 4.4. Final Payment.** The Contractor shall not receive the final payment until the following conditions have been completed to the City's satisfaction:

The item(s) of the work subject to this maintenance coverage as specified in Exhibit A (Maintenance Items) have been determined to be in compliance with the Construction Contract and this LTRMC.

The Contractor has provided to the City a signed and notarized Affidavit of Disposal, a copy of which is attached to the Construction Contract, stating that all brush, trash, debris, and surplus materials resulting from the Work have been disposed of in a legal manner.

The Contractor has performed comprehensive and successful testing and checks of the Maintenance Items.

## **SECTION 5: BONDS AND INSURANCE**

- 5.1. Contract Bonds.** Prior to commencement of the Work, Contractor, at its sole cost and expense, shall provide to City the following bonds issued by a surety authorized to issue bonds in California and otherwise satisfactory to City:

A Payment Bond (Material and Labor Bond) in an amount not less than the Contract Price, to satisfy claims of material suppliers and mechanics and laborers employed by it on the Work. The Payment Bond shall be maintained by the Contractor in full force and effect until the Work is accepted by City and until all claims for materials and labor are paid, and shall otherwise comply with the California Civil Code.

A Performance Bond in an amount not less than the Contract Price to guarantee faithful performance of all Work, within the time prescribed, in a manner satisfactory to the City, and that all materials and workmanship will be free from original or developed defects. The Performance Bond shall remain in full force and effect until performance of the Work is completed as set forth in this LTRMC.

- 5.2. Insurance.** At all times during the term of this LTRMC, the Contractor shall maintain insurance coverage as specified in the Construction Contract, Section 7-3, "INSURANCE."

The Contractor shall not begin the Work under this LTRMC until it has complied with the following:

- a) Obtain insurance certificates reflecting evidence of insurance as specified in the Construction Contract, Section 7-3, "INSURANCE" for:
  1. Commercial General Liability
  2. Commercial Automobile Liability

### 3. Worker's Compensation

- b) Confirm that all policies contain the specific provisions required in Section 7-3, "INSURANCE."

The Contractor shall submit copies of any policy upon request by the City.

The Contractor shall not modify any policy or endorsement thereto which increases the City's exposure to loss for the duration of this LTRMC.

## SECTION 6: MISCELLANEOUS

- 6.1.** Illness and Injury Prevention Program. The Contractor shall comply with all the mandates of Senate Bill 198 and specifically shall have a written Injury Prevention Program on file with the City in accordance with all applicable standards, orders, or requirements of California Labor Code, Section 6401.7. This Program shall be on file prior to performance of any Work.
- 6.2.** City Standard Provisions. This LTRMC is subject to the following standard provisions:
1. WHITEBOOK, Section 7-13.3, Drug-Free Workplace (As adopted pursuant to City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace).
  2. WHITEBOOK, Section 7-13.2, Americans with Disabilities (As adopted pursuant to City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
  3. WHITEBOOK, Section 7-13.4, Contractor Standards and Pledge of Compliance (As adopted pursuant to City of San Diego Municipal Code §22.3224 as amended 11/24/08 by ordinance O-19808 for Pledge of Compliance).
  4. WHITEBOOK, Section 7-13.6.1, Notice of Labor Compliance Program Approval (As adopted pursuant to the City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776 (Stats. 1978, Ch. 1249)).
  5. WHITEBOOK, Section, 7-13.7, Apprentices on Public Works (As adopted pursuant to 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.
  6. WHITEBOOK, Section 7-13.5, Equal Benefits (As adopted pursuant to the City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code.
  7. WHITEBOOK, Section 2-17, Information Security Policy (As adopted pursuant to the City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.
- 6.3. Taxpayer Identification Number.** I.R.S. regulations require the City to have the correct name, address, and Taxpayer Identification Number (TIN) or Social Security Number (SSN) on file for businesses or persons who provide services or products to the City. This information is necessary to complete Form 1099 at the end of each tax year. As such, the Contractor shall provide the City with a Form W-9 upon execution of this LTRMC.
- 6.4. Assignment.** The Contractor shall not assign the obligations under this LTRMC, whether by express assignment or by sale of the company, nor any monies due or to become due, without City's prior written approval. Any assignment in violation of this Section shall

constitute a Default and is grounds for immediate termination of this LTRMC, at the sole discretion of City. In no event shall any putative assignment create a contractual relationship between City and any putative assignee.

- 6.5. Independent Contractors.** The Contractor and any Subcontractors employed by Contractor shall be independent contractors and not agents of City. Any provisions of this LTRMC that may appear to give City any right to direct Contractor concerning the details of performing the Work, or to exercise any control over such performance, shall mean only that Contractor shall follow the direction of City concerning the end results of the performance.
- 6.6. Covenants and Conditions.** All provisions of this LTRMC expressed as either covenants or conditions on the part of the City or the Contractor shall be deemed to be both covenants and conditions.
- 6.7. Jurisdiction, Venue, and Attorney's Fees.** The jurisdiction and venue for any suit or proceeding arising out of or concerning this LTRMC, the interpretation or application of any of its terms, or any related disputes shall be the County of San Diego, State of California.
- 6.8. Successors in Interest.** This LTRMC and all rights and obligations created by this LTRMC shall be in force and effect whether or not any Parties to this LTRMC have been succeeded by another entity, and all rights and obligations created by this LTRMC shall be vested and binding on any Party's successor in interest.
- 6.9. Integration.** This LTRMC and the exhibits, attachments, and references incorporated into this LTRMC fully express all understandings of the Parties concerning the matters covered in this LTRMC. No change, alteration, or modification of the terms or conditions of this LTRMC, and no verbal understanding of the Parties, their officers, agents, or employees shall be valid unless made in the form of a written change agreed to in writing by both Parties or an amendment to this LTRMC agreed to by both Parties. All prior negotiations and agreements are merged into this LTRMC.
- 6.10. Counterparts.** This LTRMC may be executed in counterparts, which when taken together shall constitute a single signed original as though all Parties had executed the same page.
- 6.11. No Waiver.** No failure of either the City or the Contractor to insist upon the strict performance by the other of any covenant, term or condition of this LTRMC, nor any failure to exercise any right or remedy consequent upon a breach of any covenant, term, or condition of this LTRMC, shall constitute a waiver of any such breach or of such covenant, term or condition. No waiver of any breach shall affect or alter this LTRMC, and each and every covenant, condition, and term hereof shall continue in full force and effect to any existing or subsequent breach.
- 6.12. Severability.** The unenforceability, invalidity, or illegality of any provision of this LTRMC shall not render any other provision of this LTRMC unenforceable, invalid, or illegal.



**Signing Authority.** The representative for each Party signing on behalf of a corporation, partnership, joint venture or governmental entity hereby declares that authority has been obtained to sign on behalf of the corporation, partnership, joint venture, or entity and agrees to hold the other Party or Parties hereto harmless if it is later determined that such authority does not exist.

IN WITNESS WHEREOF, this Contract is executed by the City of San Diego, acting by and through its Public Works Department Director, pursuant to the emergency contract provisions of City Charter **594** authorizing such execution, and by Contractor.

Dated this 3rd day of April, **2018**.

THE CITY OF SAN DIEGO

By: \_\_\_\_\_

  
Mayor or designee

I HEREBY CERTIFY I can legally bind **ORION CONSTRUCTION CORPORATION** and that I have read this entire contract, this 23 day of FEB., **2018**.

By: \_\_\_\_\_

Printed Name: RICHARD DOWSING

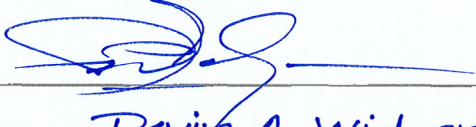
Title: PRESIDENT

I HEREBY APPROVE the form of the foregoing Contract this

17th day of April of **2018**.

Mara W. Elliott, City Attorney

By: \_\_\_\_\_

  
Printed Name: David A. Widgerow  
Deputy City Attorney



## EXHIBIT A

### SCOPE OF WORK

- I. **Location of Work.** The location of the Work to be performed (Revegetation Area) is shown on the Location Map **EXHIBIT M**, which is incorporated into this contract by this reference as though fully set forth herein.
- II. **Description of Work.** The Contractor shall maintain and monitor the Revegetation Area during the Monitoring Program in accordance with this contract and the Specifications such that the Revegetation Area meets the success criteria specified in the Revegetation Plan at each of the milestones listed and on the last date of the Monitoring Program as set forth in the Work Schedule. The Work includes complete landscape maintenance consisting of irrigation, pruning, shaping and training of trees, shrubs, and ground cover plants; fertilization; weed control; control of all plant diseases and pests; and trash removal, and all other maintenance listed in this contract and as required to maintain the Revegetation Area in a useable condition and to maintain the plant material in a healthy and viable state.

The work also includes biological monitoring of the Revegetation Area according to the schedule and methods specified in the Revegetation Plan. The monitoring work shall include all reporting tasks specified in the Revegetation plan.

- III. **Method of Performing Work.**

- A. Irrigation. Irrigation shall be applied to container and salvaged plants in accordance with instructions from the Project Biologist. Irrigation delivery techniques and schedules will vary depending on the availability of a sprinkler irrigation system and weather patterns. Failure of an existing irrigation system to provide full and proper irrigation shall not relieve Contractor of the responsibility to provide adequate irrigation with full and proper coverage of all areas subject to this LTRMC.
  1. In areas where an automatic sprinkler system is installed, Contractor shall periodically inspect the operation of the system for any malfunction. The maximum interval between inspections shall not exceed 7 days. The Contractor shall maintain all sprinkler systems in such a way as to guarantee proper coverage and full working capability, and shall make whatever adjustments may be necessary to prevent excessive run-off into streets, rights-of-way, or other areas not meant to be irrigated. The cost of wasted water may be charged to Contractor.
  2. All areas not adequately covered by a sprinkler system shall be irrigated by a portable irrigation method in accordance with instructions from the Project Biologist. The Contractor shall furnish all hoses, nozzles, sprinklers, etc. necessary to accomplish this supplementary irrigation. The Contractor shall exercise due diligence to prevent water waste, erosion, and detrimental seepage into existing underground improvements and to existing structures.

3. Irrigation shall be accomplished as follows:
  - a) Turf (if any) shall be irrigated Monday through Friday, as required, to maintain acceptable growth, viability and health, and to encourage deep rooting, in accordance with instructions from the Project Biologist. Additional irrigation shall be performed in the event of unusually hot/dry weather conditions (as are present during Santa Ana conditions, or other times of low humidity or high winds, or during a prolonged high temperature period during summer months).
  - b) Landscaped improved banks and slopes (if any) shall be irrigated Monday through Friday as required to maintain acceptable growth, viability and health, and to encourage deep rooting, in accordance with instructions from the Project Biologist.
  - c) Shrub beds (if any) shall be irrigated as required to maintain acceptable growth, viability and health, and to encourage deep rooting, in accordance with instructions from the Project Biologist. Shrub areas shall be irrigated at a rate which keeps surface runoff to a minimum. The irrigation rate shall be adjusted to the needs of shrub types, seasons and weather conditions.
  - d) Planted and seeded areas shall be irrigated as required to maintain acceptable growth, viability and health, and to encourage deep rooting, in accordance with instructions from the Project Biologist. Planted and seeded areas shall be irrigated at a rate which keeps surface runoff to a minimum. The irrigation rate shall be adjusted to the needs of plant types, seasons and weather conditions.
4. Maintenance of Irrigation System. The Contractor shall keep controller and valve boxes (if any) clear of soil and debris and shall maintain the irrigation system at no additional cost to City, including replacement, repair, adjustment, raising or lowering, straightening and any other operation required for the continued proper operation of the system from the "cold" side of the water meter throughout the Revegetation Area. The Contractor shall also be responsible for maintaining the painted surfaces of irrigation and lighting controller cabinets as well as the corresponding automatic irrigation battery numbers on the lids of the automatic control valve boxes (if any). The Contractor shall be responsible for light bulb replacements in controller cabinets as necessary.
  - a) Repair or replacement includes: sprinkler system laterals (piping), sprinkler mains (pressure lines), vacuum breakers, sprinkler control valves, sprinkler controllers, sprinkler heads, sprinkler caps, sprinkler head risers, valve covers, boxes and lids (including electrical pull boxes and lids), valve sleeves and lids, quick coupler valves and hose bibs. Any replacement shall conform to the type and kind of existing system. Any deviation shall be approved in writing by City.

- b) Contractor shall repair irrigation systems which are damaged or altered in any way, including by acts of God, vandalism, vehicular damage, or theft.
- 5. Operation of Automatic Irrigation Controllers. Where the operation of automatic irrigation controllers is required as part of this LTRMC, Contractor shall:
  - a) Not duplicate any coded City key furnished by City for access and operation of the controller;
  - b) Surrender all keys furnished by City, promptly at the end of the term of this LTRMC, or at any time deemed necessary by City to prevent serious loss to City;
  - c) protect the security of City's property by keeping controller cabinet and building doors locked at all times; and
  - d) refrain from using premises behind locked doors for storage of materials, supplies, or tools except as approved by City.
- B. Pruning Shrubs and Ground Cover Plants. The Contractor shall prune all shrubs and ground cover plants growing in the Revegetation Area as required to:
  - 1) Maintain plant growth viability and health, and to encourage deep rooting, in accordance with instructions from the Project Biologist.
  - 2) Prevent encroachment of passage ways, walks, streets, or view of signs; and
  - 3) Prevent encroachment in any manner deemed objectionable by City.

The Contractor shall remove dead or damaged limbs with sharp pruning tools, with no stubs remaining. The Contractor shall seal any pruning cut which exceeds 2" in diameter with an approved pruning paint when required by City. The Contractor shall perform pruning to permit plants to grow naturally in accordance with their normal growth characteristics except where box hedging is required by City. The Contractor shall not shear, hedge, or severely prune plants, unless authorized by City. The Contractor shall not use growth regulators.
- C. Tree Maintenance. Contractor shall maintain all trees and container plants in the revegetation area in accordance with instructions from the Project Biologist. The Contractor shall perform pruning to promote the best growth habits, appearance, and health of all trees and container plants, and to prevent encroachment which is in any manner deemed undesirable by City, in accordance with instructions from the Project Biologist. The Contractor is responsible for tree pruning that can be accomplished with a 12' pole saw by a worker standing on the ground. The Contractor shall not top trees.
  - 1) Potential Hazards. The Contractor shall notify City within 24 hours of any tree that shows signs of root heaving or leaning, or is in any manner a potential

safety hazard. The Contractor shall immediately reestablish trees and shrubs that are uprooted due to storms, if possible. If trees or shrubs cannot be reestablished, Contractor shall remove them immediately (including roots) and fill the holes until replacement planting is complete.

- 2) Replacement. The Contractor shall completely remove and replace trees lost due to Contractor's faulty maintenance or negligence, as determined by City. The Contractor shall replace trees in kind and size as determined by City. If there is a difference in value between the tree lost and the replacement tree, City will deduct the difference from payment to be made under this LTRMC. The City shall determine the value of the tree lost using the latest International Society of Arboriculture (I.S.A.) guidelines for value determination.
- 3) Staking. The Contractor shall securely stake any newly planted trees and other trees needing support with 2 "lodge pole" type stakes placed on opposite sides of the tree outside the root ball and secured to the tree with at least two flexible rubber tree ties. The Contractor shall regularly inspect tree ties and stakes and reposition them as necessary to ensure against girdling and abrasion.

D. Fertilization. Contractor shall fertilize the Revegetation Area as necessary in accordance with instructions from the Project Biologist to meet the success criteria specified in the Revegetation Plan at each of the milestones listed and on the last date of the Monitoring Program as set forth in the Work Schedule Prior to any fertilization, Contractor shall submit to City Material Safety Data Sheets and a schedule of application showing the site, date, and approximate time of fertilizer application (Fertilizer Schedule). The Fertilization Schedule, regardless of its intensity, timing, or the number of sites covered daily or weekly, shall not excuse Contractor from performing any other Work regularly required under this LTRMC. All fertilization shall first be approved by the Project Biologist.

- 1) Contractor shall notify City at least 48 hours before beginning any fertilization. Fertilizer shall be delivered to the site only in the original unopened containers bearing the manufacturer's guaranteed analysis. Damaged packages shall not be accepted. The Contractor shall furnish City with duplicate signed, legible copies of all certificates and invoices for all fertilizer to be used for this LTRMC. The invoices shall state the grade, amount and quantity received. Both the copy to be retained by City and Contractor's copy shall be signed by City, on site, before any fertilizer may be used.
- 2) Fertilizers, if necessary, shall be applied at the direction of the Project Biologist and according to manufacturer's product specifications.
- 3) If deemed necessary by City to achieve required results, Contractor shall apply other materials as directed by City, including:
  - a) iron chelate;

- b) soil sulfur;
  - c) gypsum; or
  - d) surfactant enzymes such as Sarvon or Naiad.
- 4) Contractor shall adequately irrigate the fertilized area(s) immediately following the application of fertilizers and/or amendments to force fertilizer material to rest directly on the soil surface. Drip irrigated areas shall be adequately hand watered using quick coupler valves and hoses to dissolve fertilizer.
- E. Weed Removal. Contractor shall completely remove weeds from the Revegetation Area, including all turf grass areas, shrub and ground cover areas, planters, tree wells, and cracks in paved areas, including sidewalks, parking lot, gutters and curbs, as shown on the Work Schedule. For the purposes of this Section, "Weed" means any undesirable or misplaced plant. The Contractor shall control Weeds by manual, mechanical, or chemical methods. The City or Project Biologist may restrict the use of chemical weed control in certain areas.
- F. Disease and Pest Control. The Contractor shall regularly inspect the Revegetation Area for the presence of disease and insect or rodent infestation. The Contractor shall notify City within 4 days if disease or insect or rodent infestation is discovered. In its notice to City, Contractor shall identify the disease, insect, or rodent and specify the control measures to be taken. Upon approval of City, Contractor shall implement the approved control measures, exercising extreme caution in the application of all sprays, dusts, or other materials utilized. The Contractor shall continue the approved control measures until the disease, insect, or rodent is controlled to the satisfaction of City.
- 1) All individuals who supervise the mixing and application of herbicides, pesticides, and rodenticides on behalf of Contractor shall possess valid Qualified Applicators Certificate for Category B issued to them by the State Department of Food and Agriculture.
  - 2) Contractor shall utilize all safeguards necessary during disease, insect or rodent control operations to ensure safety of the public and the employees of Contractor, in accordance with current standard practices accepted by the State of California Department of Food and Agriculture. If Contractor is unable to control the pest or disease, a pest control company will be hired and the cost shall be deducted from Contractor's monthly payment.
- G. Plant Replacement. Except as provided in Section H below, Contractor shall notify City within 4 days of the loss of plant material due to any cause.
- 1) Contractor shall at no cost to City replace any tree, shrub, ground cover, or other plant which is damaged or lost as a result of Contractor's faulty maintenance or negligence. The size and species of replacement plant materials shall be as directed by City.

- 2) If so directed by City, Contractor shall replace any plant damaged or lost that is not a result of Contractor's faulty maintenance or negligence. The size and species of replacement plant materials shall be as directed by City. The City will pay for materials and labor.
  - 3) City may determine that certain plants should be replaced in order to ensure maximum ecological health and overall aesthetic appearance of planting in the Revegetation Area. When City determines such replacement should occur, Contractor shall replace the plants as directed by City. City will pay for materials and labor.
- H. Damage Reports. The Contractor shall notify City within 24 hours of any damage to the Work Area caused by accident, vandalism or theft.
- I. Litter. The Contractor shall promptly dispose of all trash and debris at an appropriate City disposal site. The Contractor shall pay any and all fees associated with the disposal of debris or trash accumulated under the terms of this LTRMC. The Contractor understands that disposal of refuse at City landfills is subject to a fee and that the Refuse Disposal Division can be contacted at (619) 573-1418 for fee information.
- 1) Contractor Generated Litter. The Contractor shall promptly remove all debris generated by Contractor's pruning, trimming, weeding, edging and other Work required by this LTRMC. Immediately after working in streets, park walks, gutters, driveways, and paved areas, Contractor shall clean them in accordance with all applicable laws.
  - 2) Third Party Generated Litter. Upon discovery Contractor shall remove all litter, including bottles, glass, cans, paper, cardboard, fecal matter, leaves, branches, metallic items, and other debris, from the Work site.
- J. Monitoring: The Project Biologist will oversee all maintenance operations and conduct qualitative and quantitative biological monitoring of the revegetation area according to the schedule and methods described in the Revegetation Plan. The Project Biologist will be responsible for preparing and submitting monitoring reports according to the schedule and instructions in the Revegetation Plan. The Project Biologist will be an individual or team of individuals with 4-year degree(s) in botany, ecology, landscape architecture or a related field, and demonstrated experience in upland and riparian community restoration.

## **EXHIBIT B**

**INSERT A COPY OF THE ENGINEER'S FIELD NOTIFICATION WHICH ESTABLISHES THE COMMENCEMENT DATE OF THE MONITORING PROGRAM, SEE THE 2015 WHITEBOOK, SECTION 802**

EXHIBIT C

LICENSE DATA SHEET

State Contractor License Classification and Number: 549309

Name of License Holder: RICHARD DOWSING, RMO

Expiration Date: 11/30/2018

Pest Control Applicator's Name: N/A

License Number: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

Pest Control Advisor's Name: N/A

License Number: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

City of San Diego Business License Number: B1992002970

Expiration Date: 03/31/2018