



The City of San Diego  
MEMORANDUM

DATE: January 15, 2019  
TO: James Nagelvoort, Director, Public Works  
FROM: Claudia Abarca, Deputy Director, Public Works Contracts *[Signature]*  
SUBJECT: Sole Source Agreement for Emergency Repairs at 2395 Cardinal Road

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Dept. Est. Total: \$1,000,000  
Contractor: Flatiron West, Inc.  
Expiration Date: December 31, 2020

Pursuant to SDMC §22.3108 (a), "Exceptions to Advertisement and Competitive Award of Public Works Contracts", this is to certify that a sole source agreement with the contractor named above is necessary and that strict compliance with a competitive process would be unavailing or would not produce an advantage, and soliciting bids or proposals would be undesirable, impractical or impossible for the following reasons:

JUSTIFICATION:

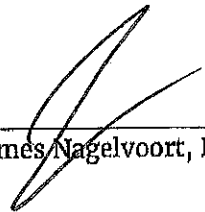
A request was received on December 7, 2018, reporting a forming sinkhole in an existing 18-inch corrugated metal pipe (CMP) storm drain at 2395 Cardinal Road in the Linda Vista Area. An attempt was made to televise this storm drain but it was unsuccessful because the pipe had collapsed. The deteriorated condition of the pipe has resulted in a sinkhole which has exposed the foundation of the property at 2395 Cardinal Road. The sinkhole is approximately twenty feet away from the adjacent home at 2635 Cardinal Drive and is approximately 10 by 20 feet in size and 12 to 15 feet deep. This pipe must be repaired so that the storm drain can continue to operate.

As we are in the rainy season and further rain events are anticipated, new rainfall will cause the pipe to continue to deteriorate and the sinkhole to grow at an alarming rate unless the pipe is repaired. This has endangered the structural integrity of the adjacent condominium and poses a hazardous situation to the property owner and public. The necessary repair is beyond the capabilities of the City's Transportation & Storm Water Department.

**AGREEMENT VALUE & DURATION:**

The total fee for these services shall not exceed the amount noted above and the term of the agreement will be in effect from date of the agreement execution, until the agreement is completed/closed, but will not exceed the above expiration date without issuance of a modification to duration of both the agreement and this sole source.

**APPROVED BY:**



James Nagelvoort, Director, Public Works

Date: 1/25/19

- cc: Kris McFadden, Director, Transportation & Storm Water Department
- Myrna Dayton, Assistant Director, Public Works Department
- Mark Nassar, Deputy Director, Public Works Department
- Luis Schaar, Deputy Director, Public Works Department
- Jong Choi, Senior Civil Engineer, Public Works Department
- Catherine Dungca, Senior Civil Engineer, Public Works Department
- Chris Gascon, Senior Civil Engineer, Transportation & Storm Water Department
- Stephen Samara, Principal Contract Specialist, Public Works Department
- Manuel Gonzalez, Associate Civil Engineer, Public Works Department
- Rosa Riego, Senior Contract Specialist, Public Works Department

# City of San Diego

**CONTRACTOR'S NAME:** Flatiron West, Inc.  
**ADDRESS:** 2515 Camino del Rio South Suite 138  
**TELEPHONE NO.:** (760) 916-9100 **FAX NO.:** (760) 916-9101  
**CITY CONTACT:** Ronald McMinn Jr., Contract Specialist, Email: [RMcMinn@sandiego.gov](mailto:RMcMinn@sandiego.gov)  
Phone No. (619) 533-4618  
J. Cramoline / R. Puertollano / br

## CONTRACT DOCUMENTS

**FINAL**



## FOR

### EMERGENCY CONSTRUCTION SERVICES FOR: 2395 CARDINAL DR STORM DRAIN REPLACEMENT

RFQ NO.: K-18-1682-RFQ-3  
BID NO.: K-19-1820-EMR-3  
SAP NO. (WBS/IO/CC): B-19090  
CLIENT DEPARTMENT: 2116  
COUNCIL DISTRICT: 7  
PROJECT TYPE: CA

**ENGINEER OF WORK**

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

  
\_\_\_\_\_  
For City Engineer

2-11-19  
\_\_\_\_\_  
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 and reconstruction of **2395 Cardinal Dr Storm Drain Replacement**. Work will include replacement of approximately 180 LF of 15-inch CMP with 18-inch RCP. The new RCP will connect to existing inlets on Cardinal Dr. The storm drain will then tie into the existing 54-inch storm drain. Additionally, approximately 350 LF of 30-inch CMP will be replaced with 30-inch RCP via jack and boring. 30-inch RCP will also discharge to the 54-inch storm drain. Environmental monitoring required during construction within canyon. Contractor shall provide TCP and SWPPP.
- 1.3. This solicitation is for a "Time-and-Materials" contract in accordance with the provisions set forth in 7-3.7, "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 2-8, "EXTRA WORK" of The GREENBOOK and WHITEBOOK and as modified by the Supplementary Special Provisions.

#### 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 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:** For the City's Equal Opportunity Program requirements see Part 0 of the City of San Diego 2018 Whitebook and **Exhibit I - Forms**.
4. **CONTRACT TIME:** The Work including the Plant Establishment Period shall be completed within **264 Working Days** from the date of issuance of the Notice to Proceed.
5. **CONTRACT PRICE:** The Engineer's Estimate of the Contract Price is **\$1,000,000**. 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. **LICENSE REQUIREMENT:** To be eligible for award of this contract, Prime contractor must possess the following licensing classification: **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 Contractor shall provide the list of subcontractors (regardless of tier), along with their DIR registration numbers, utilized on this Contract prior to any work being performed; and the Contractor shall provide a complete list of all subcontractors with each invoice. Additionally, Contractor shall provide the City with a complete list of all subcontractors (regardless of tier) utilized on this contract within ten working days of the completion of the contract, along with their DIR registration numbers. The City shall withhold final payment to Construction Management Professional until at least thirty (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>	2018	PWPI010119-01
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>	2018	PWPI010119 -02
City of San Diego Standard Drawings* <a href="https://www.sandiego.gov/publicworks/edocref/standarddraw">https://www.sandiego.gov/publicworks/edocref/standarddraw</a>	2018	PWPI010119 -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>	2018	PWPI010119 -04
CALTRANS Standard Specifications – <a href="http://www.dot.ca.gov/des/oe/construct ion-contract-standards.html">http://www.dot.ca.gov/des/oe/construct ion-contract-standards.html</a>	2018	PWPI030119-05

Title	Edition	Document Number
CALTRANS Standard Plans - <a href="http://www.dot.ca.gov/des/oe/construct ion-contract-standards.html">http://www.dot.ca.gov/des/oe/construct ion-contract-standards.html</a>	2018	PWPI030119-06
California Manual on Uniform Traffic Control Devices Revision 3 (CA MUTCD Rev 3) - <a href="http://www.dot.ca.gov/trafficops/camut cd/">http://www.dot.ca.gov/trafficops/camut cd/</a>	2014	PWPI030119-07
<p><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></p>		

**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 within 5-4, "INSURANCE" of the Supplementary Special Provisions (SSP) for the insurance requirements which must be met.

**10. SUBCONTRACTOR INFORMATION:**

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

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

- 10.2. LISTING OF SUPPLIERS.** Any Bidder seeking the recognition of Suppliers of equipment, materials, or supplies obtained from third party Suppliers towards achieving any mandatory or voluntary (or both) subcontracting participation goals shall provide, at a minimum, the **NAME, LOCATION (CITY), DIR REGISTRATION NUMBER** and the **DOLLAR VALUE** of each supplier. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for materials and supplies unless vendor manufactures or substantially alters materials and supplies, in which case, 100% will be credited. The Bidder is to indicate within the description whether the listed firm is a supplier or manufacturer. If no indication is provided, the listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage.
- 11. SUBMITTAL OF “OR EQUAL” ITEMS:** See 4-1.6, “Trade Names or Equals.”
- 12. SUBCONTRACT LIMITATIONS:** The Bidder’s attention is directed to Standard Specifications for Public Works Construction, Section 3-2, “SELF-PERFORMANCE” 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.
- 13. 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 Branch, 525 B Street, Suite 750, San Diego, CA 92101, Telephone No. (619) 533-3450.
- 14. 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.
- 15. 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.

- 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

- 15.1.** The Bidder, by submitting electronically, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certification, forms and affidavits submitted as part of this contract are true and correct.
- 16. 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.
- 17. AWARD OF CONTRACT OR REJECTION OF PROPOSALS:**
- 17.1.** 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.
- 17.2.** 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.
- 18. 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 1-7.2, "Contract Bonds," and 5-4, "INSURANCE" within **3 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.
- 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 3-9, "TECHNICAL STUDIES AND SUBSURFACE DATA" 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.

**AGREEMENT  
FOR  
EMERGENCY CONSTRUCTION SERVICES  
BETWEEN  
THE CITY OF SAN DIEGO  
AND  
FLATIRON WEST, INC.**

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This Emergency Construction Services Agreement (Agreement) is made and entered between THE CITY OF SAN DIEGO, herein called "City" and **Flatiron West, Inc.** herein called "Contractor", for the purpose of designing (when required) and performing emergency construction services for **2395 Cardinal Dr Storm Drain Replacement**, Bid No. **K-19-1820-EMR-3**, in the amount of **(\$1,000,000)** 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 K-18-1682- RFQ-3**, 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**

- A. The above referenced recitals are true and correct and are incorporated into this agreement by this reference.
- B. Exhibits referenced in this agreement are incorporated into the Agreement by this reference.
- 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 agreement incorporates the Standard Specifications for Public Works Construction (The 2018 GREENBOOK), including those amendments set forth in the City of San Diego Supplement (The 2018 WHITEBOOK). All changes, additions, or both are stated herein and all other provisions remain unchanged.
- F. The Contractor shall comply with City's Equal Opportunity Contracting Program Requirements set forth in the Contract Documents. See The WHITEBOOK Part 0.
- G. 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.
- H. The Contractor shall ensure that the Subcontractors whose subcontracts are greater than \$50,000 in value 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:
  - 1. "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."
- I. The Contractor's attention is directed to the provisions of the State of California Labor Code §1776 (Stats. 1978, Ch. 1249). The Contractor shall be responsible for the compliance with these provisions by Subcontractors.




- J. 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.
- K. 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.
- L. 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.
- M. 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 5-4, "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 

Mara W. Elliott, City Attorney  
By 

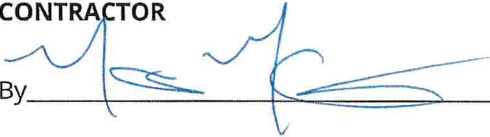
Print Name: Claudia C. Abarca  
Deputy Director  
Public Works Department

Print Name: Davin A. Widgerow  
Deputy City Attorney

Date: May 6, 2019

Date: 5-20-2019

**CONTRACTOR**

By 

Print Name: Mario Martinez

Title: Vice President

Date: April 8, 2019

City of San Diego License No.: 1992002921

State Contractor's License No. : 772589

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

Bond No. 015204759

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

Flatiron West, Inc., a corporation, as principal, and  
Liberty Mutual Insurance 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 Dollars and Zero Cents (\$1,000,000.00) for the faithful performance of the  
annexed contract, and in the sum of One Million Dollars and Zero Cents (\$1,000,000.00) for the benefit  
of laborers and materialmen designated below.

**Conditions:**

If the Principal shall faithfully perform the annexed contract **2395 Cardinal Dr Storm Drain Replacement**, Bid Number **K-19-1820-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**

---

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

Dated March 28, 2019

Approved as to Form

**Flatiron West, Inc.**

Principal

By

Mario Martinez  
Mario Martinez, Vice President

Printed Name of Person Signing for Principal

Mara W. Elliott, City Attorney

By

Mara W. Elliott  
Deputy City Attorney

**Liberty Mutual Insurance Company**

Surety

By

Mary R. McKee  
Attorney-in-fact Mary R. McKee

Approved:

By

C. Abarca  
Claudia C. Abarca  
Deputy Director  
Public Works Department

**175 Berkeley Street**

Local Address of Surety

**Boston, MA 02116**

Local Address (City, State) of Surety

**212- 719-7750**

Local Telephone No. of Surety

Premium \$ 12,500.00

Bond No. 015204759

## ACKNOWLEDGMENT

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 San Diego

On April 5, 2019 before me, Jannette M. Carter, Notary Public  
(insert name and title of the officer)

personally appeared Mario Martinez  
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 Jannette M. Carter (Seal)




**CORPORATE ACKNOWLEDGMENT**

Form 152

STATE OF NEW JERSEY  
COUNTY OF BERGEN

On this 28th day of March, 2019 before me personally came Mary R. McKee to me known, who, being by me duly sworn, did depose and say that she/he resides in Saddle Brook, New Jersey that she/he is the ATTORNEY IN FACT of the LIBERTY MUTUAL INSURANCE COMPANY the corporation described in and which executed the above instrument that she/he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that she/he signed her/his name thereto by like order.

(SEAL)



\_\_\_\_\_  
**KRISTA A. BURKE**  
NOTARY PUBLIC, STATE OF NEW JERSEY  
MY COMMISSION EXPIRES  
**DECEMBER 07, 2022**



LIBERTY MUTUAL INSURANCE COMPANY  
FINANCIAL STATEMENT — DECEMBER 31, 2017

<b>Assets</b>	<b>Liabilities</b>
Cash and Bank Deposits..... \$370,003,299	Unearned Premiums..... \$7,503,154,587
*Bonds — U.S Government..... 1,331,664,975	Reserve for Claims and Claims Expense..... 19,658,731,454
*Other Bonds..... 11,127,053,004	Funds Held Under Reinsurance Treaties..... 224,693,828
*Stocks..... 16,367,850,688	Reserve for Dividends to Policyholders..... 967,520
Real Estate..... 272,895,626	Additional Statutory Reserve..... 52,491,027
Agents' Balances or Uncollected Premiums..... 5,258,657,823	Reserve for Commissions, Taxes and
Accrued Interest and Rents..... 100,341,596	Other Liabilities..... 4,049,392,852
Other Admitted Assets..... <u>11,192,287,530</u>	<b>Total..... \$31,489,431,268</b>
<b>Total Admitted Assets..... <u>\$46,020,754,541</u></b>	Special Surplus Funds..... \$176,230,822
	Capital Stock..... 10,000,000
	Paid in Surplus..... 9,484,316,385
	Unassigned Surplus..... 4,860,776,066
	<b>Surplus to Policyholders..... 14,531,323,273</b>
	<b>Total Liabilities and Surplus..... <u>\$46,020,754,541</u></b>



\* Bonds are stated at amortized or investment value; Stocks at Association Market Values.  
The foregoing financial information is taken from Liberty Mutual Insurance Company's financial statement filed with the state of Massachusetts Department of Insurance.

I, TIM MIKOLAJEWSKI, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the foregoing is a true, and correct statement of the Assets and Liabilities of said Corporation, as of December 31, 2017, to the best of my knowledge and belief.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Corporation at Seattle, Washington, this 16<sup>th</sup> day of March, 2018.

*TAMikolajewski*

\_\_\_\_\_  
Assistant Secretary





This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: 8200349-974450

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Sherryanne M. DePirro; Mary R. McKee; James Baldassare, Jr.; Krista A. Burke; Vincent C. Misco; Charo J. Rosemond; Lisa M. Scavetta; Maria L. Spadaccini; Nicholas F. Walsh; Elliott W. Wolffe

all of the city of Paramus state of NJ each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 24th day of January, 2019.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: David M. Carey, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

State of PENNSYLVANIA
County of MONTGOMERY ss

On this 24th day of January, 2019 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

By: Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 28th day of March, 2019.



By: Renee C. Llewellyn, Assistant Secretary



STATE OF CALIFORNIA  
DEPARTMENT OF INSURANCE  
SAN FRANCISCO

AMENDED

Certificate of Authority

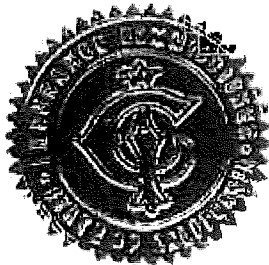
THIS IS TO CERTIFY, That, pursuant to the Insurance Code of the State of California,

LIBERTY MUTUAL INSURANCE COMPANY

of BOSTON, MASSACHUSETTS, organized under the laws of MASSACHUSETTS, subject to its Articles of Incorporation or other fundamental organizational documents, is hereby authorized to transact within this State, subject to all provisions of this Certificate, the following classes of insurance: FIRE, MARINE, SURETY, DISABILITY, PLATE GLASS, LIABILITY, WORKMEN'S COMPENSATION, COMMON CARRIER LIABILITY, BOILER AND MACHINERY, BURGLARY, CREDIT, SPRINKLER, TEAN AND VEHICLE, AUTOMOBILE, AIRCRAFT and MISCELLANEOUS as such classes are now or may hereafter be defined in the Insurance Laws of the State of California.

THIS CERTIFICATE is expressly conditioned upon the holder hereof now and hereafter being in full compliance with all, and not in violation of any, of the applicable laws and lawful requirements made under authority of the laws of the State of California as long as such laws or requirements are in effect and applicable, and as such laws and requirements now are, or may hereafter be changed or amended.

IN WITNESS WHEREOF, effective as of the 15TH day of NOVEMBER, 1961, I have hereunto set my hand and caused my official seal to be affixed this 15TH day of NOVEMBER, 1961.



F. BRITTON McCONNELL  
Insurance Commissioner

By [Signature] Deputy

**EXHIBIT A**

**DRUG-FREE WORKPLACE CERTIFICATION**

## **CONTRACTOR CERTIFICATION**

---

### **DRUG-FREE WORKPLACE**

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 5-1.3, "Drug-Free Workplace", of the project specifications, and that;

This company\_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.

**EXHIBIT B**

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

## CONTRACTOR CERTIFICATION

---

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

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the Americans With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 5-1.2, "California Building Code, California Code of Regulations Title 24 and Americans with Disabilities Act", of the project specifications, and that:

This company 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.

**EXHIBIT C**

**CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE**

## CONTRACTOR CERTIFICATION

---

### CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

I declare under penalty of perjury that I am authorized to make this certification on behalf of the company submitting this bid/proposal, that as Contractor, I am familiar with the requirements of City of San Diego Municipal Code § 22.3004 regarding Contractor Standards as outlined in the WHITEBOOK, Section 5-1.4, "Contractor Standards and Pledge of Compliance", of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors whose subcontracts are greater than \$50,000 in value has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3004.

**EXHIBIT D**

**EQUAL BENEFITS 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.

**EXHIBIT E**

**AFFIDAVIT OF DISPOSAL**

**AFFIDAVIT OF DISPOSAL**

(To be submitted upon completion of Construction pursuant to the contracts Certificate of Completion)

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

**2395 Cardinal Dr Storm Drain Replacement**

(Name of Project)

as particularly described in said contract and identified as Bid No. **K-19-1820-EMR-3**; WBS No. **B-19090**; 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 \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_ Contractor

by

**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 F**

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

**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

The bidder, being first duly sworn, deposes and says that he or she is authorized by 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.

**EXHIBIT G**

**CONTRACTORS CERTIFICATION OF PENDING ACTIONS**

**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 10 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:

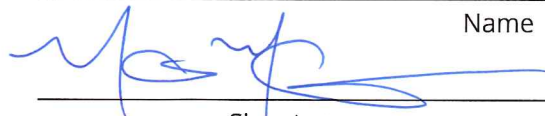
PLEASE SEE ATTACHMENT

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

Contractor Name: Flatiron West, Inc.

Certified By Mario Martinez Title Vice President

Name



Signature

Date April 8, 2019

**USE ADDITIONAL FORMS AS NECESSARY**

**EXHIBIT H**

**MANDATORY DISCLOSURE OF BUSINESS INTERESTS FORM**



**MANDATORY DISCLOSURE OF BUSINESS INTERESTS FORM**

**BIDDER/PROPOSER INFORMATION**

Legal Name	DBA		
Street Address	City	State	Zip
Contact Person, Title	Phone	Fax	

Provide the name, identity, and precise nature of the interest\* of all persons who are directly or indirectly involved\*\* in this proposed transaction (SDMC § 21.0103).

\* The precise nature of the interest includes:

- the percentage ownership interest in a party to the transaction,
- the percentage ownership interest in any firm, corporation, or partnership that will receive funds from the transaction,
- the value of any financial interest in the transaction,
- any contingent interest in the transaction and the value of such interest should the contingency be satisfied, and
- any philanthropic, scientific, artistic, or property interest in the transaction.

\*\* Directly or indirectly involved means pursuing the transaction by:

- communicating or negotiating with City officers or employees,
- submitting or preparing applications, bids, proposals or other documents for purposes of contracting with the City, or
- directing or supervising the actions of persons engaged in the above activity.

Name	Title/Position
City and State of Residence	Employer (if different than Bidder/Proposer)
Interest in the transaction	

Name	Title/Position
City and State of Residence	Employer (if different than Bidder/Proposer)
Interest in the transaction	

**\* Use Additional Pages if Necessary \***

Under penalty of perjury under the laws of the State of California, I certify that I am responsible for the completeness and accuracy of the responses contained herein, and that all information provided is true, full and complete to the best of my knowledge and belief. I agree to provide written notice to the Mayor or Designee within five (5) business days if, at any time, I learn that any portion of this Mandatory Disclosure of Business Interests Form requires an updated response. Failure to timely provide the Mayor or Designee with written notice is grounds for Contract termination.

Print Name, Title	Signature	Date
-------------------	-----------	------

**Failure to sign and submit this form with the bid/proposal shall make the bid/proposal non-responsive. In the case of an informal solicitation, the contract will not be awarded unless a signed and completed Mandatory Disclosure of Business Interests Form is submitted**

**EXHIBIT I**

**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 3-2, "SELF-PERFORMANCE", 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.

NONE

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	DIR REGISTRATION NUMBER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB <sup>ⓐ</sup>	WHERE CERTIFIED <sup>ⓑ</sup>	CHECK IF JOINT VENTURE PARTNERSHIP
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____								
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____								

- ⓐ 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 |  |         |
- ⓑ 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.**

**NAMED EQUIPMENT/MATERIAL SUPPLIER LIST**

NONE

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIALS OR SUPPLIES	DIR Registration Number	DOLLAR VALUE OF MATERIAL OR SUPPLIES (MUST BE FILLED OUT)	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.**

**SUBCONTRACTOR LISTING**

**(OTHER THAN FIRST TIER)**

Pursuant to California Senate Bill 96 and in accordance with the requirements of Labor Code sections 1771.1 and 1725.5, by submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the California Department of Industrial Relations (DIR). **The Bidder is to list below the name, address, license number, DIR registration number of any (known tiered subcontractor)** - who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement pursuant to the contract. **If none are known at this time, mark the table below with non-applicable (N/A).**

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	DIR REGISTRATION NUMBER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____				
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____				
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____				
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____				

**\*\* USE ADDITIONAL FORMS AS NECESSARY \*\***

**EXHIBIT J**

**SUPPLEMENTARY SPECIAL PROVISIONS**

## **SUPPLEMENTARY SPECIAL PROVISIONS**

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

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

---

### **SECTION 1 – GENERAL, 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 **7:00 AM to 3:30 PM**.

### **SECTION 2 - SCOPE OF THE WORK**

- 2-8 EXTRA WORK.** To the "WHITEBOOK", ADD the following:

2. Compensation for "Time-and-Material" emergency Contracts.
  - a) You will be compensated for staff charges directly associated with the project.
  - b) Any invoiced off-site work shall include a summary of work.
  - c) Mark up for off site work shall be the same as on-site work.

### **SECTION 3 – CONTROL OF THE WORK**

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

1. You shall perform, with your own organization, Contract Work amounting to at least **30%** of the base Bid **AND 30%** of any alternates.

**3-12.1**

**General. To the "WHITEBOOK", ADD the following:**

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

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

**3-13.3**

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

1. You shall warranty and repair all defective materials and workmanship for a period of 1 year. This call back warranty period shall start on the date that the Work was accepted by the City. In addition, you **shall warrant the Work against latent and patent defects if notified by the City within 4 years after the date of Acceptance for patent deficiencies and 10 years for a latent deficiency. The Engineer shall first provide you an opportunity to correct or replace any latent and patent defect at your own expense. If you fail to repair and replace the reported deficiency, the City shall repair the deficiency and charge you for the repair.**

**3-13.3.4**

**Latent and Patent Defect Warranty.** To the "WHITEBOOK", item 1, DELETE in its entirety.

**SECTION 4 - CONTROL OF MATERIALS**

**4-3.6**

**Preapproved Materials.** To the "WHITEBOOK", ADD the following:

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

**4-6**

**TRADE NAMES.** To the "WHITEBOOK", ADD the following:

11. You shall submit your list of proposed substitutions for an "equal" item **no later than 5 Working Days after the determination of the Apparent Low Bidder** and on the City's Product Submittal Form available at:

<http://www.sandiego.gov/publicworks/edocref/index.shtml>



## SECTION 5 – LEGAL RELATIONS AND RESPONSIBILITIES

**5-4 INSURANCE.** To the “GREENBOOK”, DELETE in its entirety and SUBSTITUTE with the following:

**5-4 INSURANCE.**

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

**5-4.1 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.

**5-4.2 Types of Insurance.**

**5-4.2.1 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

**5-4.2.2 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.

**5-4.3 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.

**5-4.3.1 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.

**5-4.4 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.

**5-4.5 Policy Endorsements.**

**5-4.5.1 Commercial General Liability Insurance.**

**5-4.5.1.1 Additional Insured.**

1. 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.
2. 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.
3. 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.
4. 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.

**5-4.5.1.2 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.

**5-4.5.1.3 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.

**5-4.5.2 Commercial Automobile Liability Insurance.**

**5-4.5.2.1 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.

**5-4.6 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.

**5-4.7 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.

**5-4.8 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.

**5-4.9 Excess Insurance.** Policies providing excess coverage shall follow the form of the primary policy or policies e.g., all endorsements.

**5-4.10 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.

**5-4.11 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.

**5-4.11.1. 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.

**5-13 ELECTRONIC COMMUNICATION.** To the "WHITEBOOK", ADD the following:

2. Virtual Project Manager shall be used on this Contract. For more information, refer to the VPM training videos at the location below:

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

## SECTION 6 – PROSECUTION AND PROGRESS OF THE WORK

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

1. The Contract Time shall not be modified except by Change Order.
2. You shall notify the City in writing within **1 Working Day** after the occurrence and discovery of an event that impacts the Project Schedule.
  - a) If you believe this event requires a Change Order, you shall submit a **written Change Order request with a report to** the City that explains the request for Change Order within **5 Working Days**. The Change Order request must include supporting data, a general description of the discovery, the basis for extension, and the estimated length of extension. The City may grant an extension of time, in writing, for the Change Order request if you require more time to gather and analyze data.

3. The Engineer shall not grant an extension of Contract Time in accordance with 6-1.5, "Excusable Delays" unless you demonstrate, through an analysis of the critical path, the following:
  - a) The event causing the delay impacted the activities along the Project's critical path.
  - b) The increases in the time to perform all or part of the Project beyond the Contract Time arose from unforeseeable causes beyond your control and without your fault or negligence and that all project float has been used.
4. Any modifications to the Contract Time will be incorporated into the weekly document that the Engineer issues that stipulates the Contract Time. If you do not agree with this document, submit to the Engineer for review a written protest supporting your objections to the document within **30 Calendar Days** after receipt of the statement. Your failure to file a timely protest shall constitute your acceptance of the Engineer's weekly document.
  - a) Your protest will be considered a claim for time extension and shall be subject to 2-10.1, "Claims".

**6-6.1.1 Environmental Document.**

1. The City of San Diego has prepared a **Notice of Exemption** for **2395 Cardinal Dr Storm Drain Replacement**, Project No. **B-19090**, as referenced in the Contract Appendix. You shall comply with all requirements of the **Notice of Exemption** as set forth in **Exhibit N**.
2. Compliance with the City's environmental document shall be included in the Contract Price, unless separate bid items have been provided.

**6-6.4 Written Notice and Report.** To the "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:

1. Your failure to notify the Resident Engineer within **1 Working Day** OR provide a Change Order request within **5 Working Days** after the event, in accordance with 6-4.2, "Extensions of Time", will be considered grounds for refusal by the City to consider such request if your failure to notify prejudices the City in responding to the event.

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

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

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

**SECTION 1001 – CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs)**

- 1001-1 GENERAL.** To the “WHITEBOOK”, ADD the following:
7. Based on a preliminary assessment by the City, this Contract is subject to **SWPPP LUP Type 1.**
- 1001-2.10 BMP Inspection, Maintenance, and Repair.** To the “WHITEBOOK”, ADD the following:
5. Maintenance activities shall be documented by the QSP or QSD in the Construction BMP Maintenance Log for projects subject to SWPPP requirements. See **Exhibit O - SWPPP Construction BMP Maintenance Log.**
- 1001-3.7 Payment.** To the “WHITEBOOK”, item 3, subsection “g”, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- BMP Inspection, Maintenance, Repair, and Construction BMP Maintenance Log.

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

**EXHIBIT K**

**CONTRACTOR'S COMPENSATION RATE SCHEDULE**



City of San Diego Emergency Project Cardinal Dr. Storm Drain Repairs			
FLATIRON CONST. COMPENSATION RATE SCHEDULE			
Title/Classification	Standard Rate (\$)/hour	Overtime Rate (\$)/hour	Double-time Rate (\$)/Hour
Superintendent	\$ 125.00	\$ 187.00	\$ 250.00
Foreman	\$ 110.00	\$ 165.00	\$ 220.00
Operator	\$ 103.00	\$ 154.00	\$ 206.00
Grade Checker	\$ 94.00	\$ 141.00	\$ 188.00
Laborer	\$ 81.00	\$ 121.00	\$ 162.00
Carpenter	\$ 86.00	\$ 129.00	\$ 172.00
Mechanic	\$ 91.00	\$ 136.00	\$ 182.00
Project Director	\$ 225.00	N/A	N/A
Engr. (PE) QA/QC	\$ 200.00	N/A	N/A
PM/Design Engineer	\$ 200.00	N/A	N/A
Project Manager	\$ 175.00	N/A	N/A
Project Eng.	\$ 110.00	N/A	N/A
Admin/Office	\$ 85.00	N/A	N/A

\* Markup and Overhead per 2015 White Book 3-3.2.3

\*Equipment Rates per 2015 Caltrans Equipment Rental Rates

## **City of San Diego Emergency Project**

### **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.
5. Specialty Equipment or short term rentals will be billed, per actual invoice.

# Labor Surcharge and Equipment Rental Rates

(Cost of Equipment Ownership)



Effective April 1, 2017 through March 31, 2018



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FOR DOUBLE-SIDED PRINTING

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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.

A

## EXCEPTIONS

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
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 ]

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
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 ]

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
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 ]

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
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.

<b>ATHEY [ ATHY ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
7-11	<b>5000</b>	\$77.08
<b>BARBER-GREENE [ B-G ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
BG-610H	<b>5100</b>	\$56.53
<b>CATERPILLAR [ CAT ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
WE-601B	<b>5200</b>	\$61.31
<b>CLARK'S WELDING COMPANY [ CLAR ]</b>		
<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
<b>C.M.I. [ CMI ]</b>		
<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.

<b>BAYSHORE [ BYSH ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
8400 TD limited access	<b>1500</b>	\$105.93
<b>TEXOMA [ TXMA ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
TAURUS	<b>2010</b>	\$220.19
700CL	<b>2100</b>	\$126.27
<b>WATSON [ WATS ]</b>		
<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.

<b>AKKERMAN [ AKMN ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
360	<b>5000</b>	\$105.45
420 series 1250	<b>5002</b>	\$108.34
<b>AMERICAN AUGER [ AMAU ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
36-350	<b>5014</b>	\$25.74
<b>BORZALL [ BORZ ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
2300-10	<b>5040</b>	\$8.36
4265-10	<b>5042</b>	\$11.56
<b>DITCH WITCH [ D-W ]</b>		
<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.

<b>ATLANTIC [ ATLN ]</b>		
<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
<b>CALWELD [ CALW ]</b>		
<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
<b>HUGHES [ HUGH ]</b>		
<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	

<b>BITUMINOUS DISTRIBUTORS</b>	[ <b>BITDT</b> ]
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**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.

**TRAILER MOUNTED**      [ **TLMD** ]  
 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

**TRUCK MOUNTED**      [ **TRMD** ]  
 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

<b>BROOMS &amp; SWEEPING EQUIPMENT</b>	[ <b>BRMSW</b> ]
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**DELAY FACTOR = 0.17**      **OVERTIME FACTOR = 0.84**  
 Includes all attachments and accessories with brooms of any type. Includes broom wear.

**BROOMS - MOUNTED & TOWED**      [ **MTTD** ]  
 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	

**SWEEPERS - SELF PROPELLED,**      [ **SWSP** ]

**PICK UP**  
 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

<b>BRUSH CHIPPING &amp; SHREDDING MACHINES</b>	[ <b>BRUCP</b> ]
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**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

<b>COMPACTORS, HAND GUIDED</b>	[ <b>COMHG</b> ]
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**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

<b>CONCRETE MIXERS</b>	[ <b>CONMX</b> ]
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**DELAY FACTOR = 0.14**      **OVERTIME FACTOR = 0.88**

**STATIONARY OR PORTABLE**      [ **SORP** ]  
 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

**TRANSIT MIX**      [ **TRMX** ]

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.

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

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

<b>SCHWING</b>	<b>[ SHWG ]</b>		
<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	

<b>THOMSEN</b>	<b>[ THOM ]</b>		
<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.

<b>C.M.I.</b>	<b>[ CMI ]</b>		
<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	

<b>GOMACO</b>	<b>[ GOMA ]</b>		
<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.

<b>CONCRETE VIBRATORS</b>	<b>[ CVIB ]</b>		
<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).

<b>CURB EXTRUSION MACHINE</b>	<b>[ CEM ]</b>		
<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.

<b>C.M.I.</b>	<b>[ CMI ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
SF-175	<b>3000</b>	\$106.58	

<b>CURBMASTER</b>	<b>[ CURB ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
CMT-800	<b>3020</b>	\$67.46	

<b>GOMACO</b>	<b>[ GOMA ]</b>		
<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	

<b>MILLER FORMLESS</b>	<b>[ MILL ]</b>		
<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



<b>GALION</b>	<b>[ GALN ]</b>		
<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	

<b>KOMATSU</b>	<b>[ KOMA ]</b>		
<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	

<b>HAMMERS, DEMOLITION &amp; PILE</b>	<b>[ HAMMR ]</b>
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**DELAY FACTOR = 0.25                      OVERTIME FACTOR = 0.78**  
 Includes attachments, accessories and power unit. Does not include carrier.

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

<b>AMERICAN PILE DRIVING EQUIPMENT</b>	<b>[ APE ]</b>		
<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	

<b>ALLIED STEEL &amp; TRACTOR</b>	<b>[ AS&amp;T ]</b>		
<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	

<b>DELMAG</b>	<b>[ DELM ]</b>		
<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	

<b>FOSTER</b>	<b>[ FOST ]</b>		
<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	

<b>HYDRAULIC POWER SYS</b>	<b>[ HPSI ]</b>		
<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	

<b>I.C.E.</b>	<b>[ ICE ]</b>		
<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	

<b>KENT</b>	<b>[ KENT ]</b>		
<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	

<b>NPK</b>	<b>[ NPK ]</b>		
<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	

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

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

<b>STANLEY</b>	<b>[ STAN ]</b>		
<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	

<b>TELEDYNE</b>	<b>[ TELD ]</b>		
<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	

<b>TRAMAC</b>	<b>[ TRMC ]</b>		
<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	

<b>TUNKER</b>	<b>[ TUNK ]</b>		
<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	

<b>VULCAN</b>	<b>[ VULC ]</b>		
<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 ] 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.

<b>BANTAM</b>	<b>[ BANT ]</b>		
<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	

<b>CASE</b>	<b>[ CASE ]</b>		
<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	

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

<b>LINK-BELT</b>			<b>[ L-B ]</b>			<b>P&amp;H</b>			<b>[ P&amp;H ]</b>			
<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	
LS 1600	<b>5390</b>	\$27.82	H 750	<b>6628</b>	\$49.28	H 1250	<b>6630</b>	\$81.68	H 1750	<b>6635</b>	\$103.72	
LS 2650	<b>5395</b>	\$38.74	H 2500	<b>6645</b>	\$132.34	HS 2500	<b>6650</b>	\$137.03				
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										
<b>HYDRAULIC CRANES &amp; EXCAVATORS, [ HCESP ] SELF PROPELLED.</b>												
			<b>DELAY FACTOR = 0.16</b>			<b>OVERTIME FACTOR = 0.86</b>						
			Includes all attachments and accessories required for lifting or digging. Pavement breaker or compactor attachments are not included.									
<b>MASSEY FERGUSON</b>			<b>[ M-F ]</b>			<b>BUCYRUS-ERIE</b>			<b>[ B-E ]</b>			
<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	
MF 450D	<b>6245</b>	\$37.49	300C/SP	<b>1670</b>	\$58.43	320C	<b>1672</b>	\$58.61	360C	<b>1678</b>	\$58.94	
MF 450S	<b>6250</b>	\$39.81										
<b>mitsubishi</b>			<b>[ MITS ]</b>			<b>BADGER</b>			<b>[ BAGR ]</b>			
<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	
MS 090	<b>6290</b>	\$27.18	4425/30	<b>1565</b>	\$79.81	4435	<b>1570</b>	\$88.25	4435B	<b>1573</b>	\$89.51	
MS 180-3	<b>6295</b>	\$51.73	4435C	<b>1573C</b>	\$100.49	4445	<b>1574</b>	\$126.28	4450	<b>1575</b>	\$94.90	
MS 180 LC-8	<b>6296</b>	\$58.36	4450B	<b>1577</b>	\$101.37	4450	<b>1579</b>	\$127.00				
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										
<b>NORTHWEST</b>			<b>[ NW ]</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>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	
35 DH	<b>6335</b>	\$101.75	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	
45 DH	<b>6340</b>	\$112.80	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	
55 DH	<b>6345</b>	\$120.54	45B E-Boom, Cruz Air	<b>1689H</b>	\$69.74	45B Y-Boom, Cruz Air	<b>1689K</b>	\$70.47				
55 DH Series II	<b>6360</b>	\$200.71										

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

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

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

**PETTIBONE [ PET ]**

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

**R.O. PRODUCTS [ ROP ]**

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

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

**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	1360	\$74.09
30 XC	1370	\$74.73
40 C	1475	\$65.79
60 XC	1590	\$121.27
65 C	1592	\$104.38
90 XC	1600	\$132.63

**BADGER [ BAGR ]**

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

**BANTAM [ BANT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
T 744 Teleskoop	1285	\$59.69
T 888	1310	\$84.44
T 888B	1315	\$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>	<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	HTC 14	<b>4505</b>	\$82.29	HTC 14	<b>4505</b>	\$82.29
<b>GRADALL</b>			<b>[ GRAD ]</b>			HTC 25	<b>4507</b>	\$82.29	HTC 25	<b>4507</b>	\$82.29
<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>
G 3W	<b>0120</b>	\$60.93	HTC 35	<b>4509</b>	\$92.05	HTC 35	<b>4509</b>	\$92.05	HTC 35	<b>4509</b>	\$92.05
G 660	<b>0170</b>	\$59.64	HTC 50	<b>4510</b>	\$120.64	HTC 50	<b>4510</b>	\$120.64	HTC 50	<b>4510</b>	\$120.64
G 660B	<b>0180</b>	\$76.72	HTC 50W	<b>4520</b>	\$115.77	HTC 50W	<b>4520</b>	\$115.77	HTC 50W	<b>4520</b>	\$115.77
G 660C	<b>0190</b>	\$75.22	HTC 814	<b>4530</b>	\$110.08	HTC 814	<b>4530</b>	\$110.08	HTC 814	<b>4530</b>	\$110.08
G 800	<b>0210</b>	\$50.35	HTC 814XL	<b>4531</b>	\$115.04	HTC 814XL	<b>4531</b>	\$115.04	HTC 814XL	<b>4531</b>	\$115.04
G 880B	<b>0220</b>	\$84.97	HTC 822 S	<b>4532</b>	\$101.39	HTC 822 S	<b>4532</b>	\$101.39	HTC 822 S	<b>4532</b>	\$101.39
G 880C	<b>0230</b>	\$82.98	HTC 825	<b>4535</b>	\$93.69	HTC 825	<b>4535</b>	\$93.69	HTC 825	<b>4535</b>	\$93.69
G 1000	<b>0240</b>	\$93.37	HTC 825 S	<b>4536</b>	\$102.44	HTC 825 S	<b>4536</b>	\$102.44	HTC 825 S	<b>4536</b>	\$102.44
<b>GROVE</b>			<b>[ GROV ]</b>			HTC 830	<b>4537</b>	\$112.00	HTC 830	<b>4537</b>	\$112.00
<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>
TD 520	<b>2221</b>	\$89.17	HTC 835	<b>4539</b>	\$118.08	HTC 835	<b>4539</b>	\$118.08	HTC 835	<b>4539</b>	\$118.08
TD 522	<b>2223</b>	\$89.17	HTC 835XL	<b>4539C</b>	\$133.76	HTC 835XL	<b>4539C</b>	\$133.76	HTC 835XL	<b>4539C</b>	\$133.76
TD 525	<b>2224</b>	\$90.07	HTC 840	<b>4539E</b>	\$137.20	HTC 840	<b>4539E</b>	\$137.20	HTC 840	<b>4539E</b>	\$137.20
TMS 250	<b>2850</b>	\$84.70	HTC 850	<b>4539G</b>	\$142.28	HTC 850	<b>4539G</b>	\$142.28	HTC 850	<b>4539G</b>	\$142.28
TMS 250A	<b>2860</b>	\$85.19	HTC 855	<b>4539H</b>	\$122.48	HTC 855	<b>4539H</b>	\$122.48	HTC 855	<b>4539H</b>	\$122.48
TMS 250B	<b>2870</b>	\$85.19	HTC 860	<b>4539J</b>	\$144.99	HTC 860	<b>4539J</b>	\$144.99	HTC 860	<b>4539J</b>	\$144.99
TMS 250C	<b>2875</b>	\$119.42	HTC 1040	<b>4540</b>	\$134.35	HTC 1040	<b>4540</b>	\$134.35	HTC 1040	<b>4540</b>	\$134.35
TMS 300	<b>2922</b>	\$101.45	HTC 1050	<b>4545</b>	\$137.14	HTC 1050	<b>4545</b>	\$137.14	HTC 1050	<b>4545</b>	\$137.14
TMS 300B	<b>2923</b>	\$118.55	HTC 1055	<b>4550</b>	\$126.14	HTC 1055	<b>4550</b>	\$126.14	HTC 1055	<b>4550</b>	\$126.14
TMS 760	<b>3180</b>	\$181.91	HTC 1060	<b>4555</b>	\$141.75	HTC 1060	<b>4555</b>	\$141.75	HTC 1060	<b>4555</b>	\$141.75
TMS 865	<b>3378</b>	\$135.96	HTC 11100	<b>4600</b>	\$246.97	HTC 11100	<b>4600</b>	\$246.97	HTC 11100	<b>4600</b>	\$246.97
TM 875	<b>3380</b>	\$158.94	<b>LORAIN</b>			<b>[ LORN ]</b>					
TMS 875	<b>3385</b>	\$159.81	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>
TM 890	<b>3387</b>	\$179.72	MCH 140	<b>4942</b>	\$96.02	MCH 140	<b>4942</b>	\$96.02	MCH 140	<b>4942</b>	\$96.02
TM 1075	<b>3390</b>	\$145.11	MCH 150	<b>4946</b>	\$88.80	MCH 150	<b>4946</b>	\$88.80	MCH 150	<b>4946</b>	\$88.80
<b>HIAB</b>			<b>[ HIAB ]</b>			MCH 180	<b>4947</b>	\$88.80	MCH 180	<b>4947</b>	\$88.80
<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>
100 AW	<b>3850</b>	\$31.89	MCH 300	<b>4953</b>	\$104.91	MCH 300	<b>4953</b>	\$104.91	MCH 300	<b>4953</b>	\$104.91
1165	<b>3852</b>	\$28.78	MCH 350	<b>4955</b>	\$85.78	MCH 350	<b>4955</b>	\$85.78	MCH 350	<b>4955</b>	\$85.78
170 thru 174	<b>3854</b>	\$27.31	MCH 400	<b>4957</b>	\$115.16	MCH 400	<b>4957</b>	\$115.16	MCH 400	<b>4957</b>	\$115.16
175 thru 177	<b>3855</b>	\$27.45	MCH 500	<b>4960</b>	\$94.88	MCH 500	<b>4960</b>	\$94.88	MCH 500	<b>4960</b>	\$94.88
550, 5501	<b>3857</b>	\$30.28	<b>MANITEX</b>			<b>[ MANX ]</b>					
650	<b>3859</b>	\$31.18	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>
<b>KOEHRING</b>			<b>[ KOEH ]</b>			1161	<b>4980</b>	\$35.05	1161	<b>4980</b>	\$35.05
<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>
4460 Teleskoop	<b>4400</b>	\$59.36	1770	<b>4985</b>	\$63.11	1770	<b>4985</b>	\$63.11	1770	<b>4985</b>	\$63.11
4465 Teleskoop	<b>4405</b>	\$60.57	2284	<b>4990</b>	\$65.84	2284	<b>4990</b>	\$65.84	2284	<b>4990</b>	\$65.84
4470 Teleskoop	<b>4410</b>	\$70.68	2592	<b>4995</b>	\$67.76	2592	<b>4995</b>	\$67.76	2592	<b>4995</b>	\$67.76
4475 Teleskoop	<b>4415</b>	\$71.87	<b>NATIONAL</b>			<b>[ NATL ]</b>					
			<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>
			Ser 4/400, 11.3 m (37') boom	<b>4983</b>	\$31.57	Ser 4/400, 11.3 m (37') boom	<b>4983</b>	\$31.57	Ser 4/400, 11.3 m (37') boom	<b>4983</b>	\$31.57
			Ser 4/400, 14.0 m (46') boom	<b>4984</b>	\$31.77	Ser 4/400, 14.0 m (46') boom	<b>4984</b>	\$31.77	Ser 4/400, 14.0 m (46') boom	<b>4984</b>	\$31.77
			Ser 4/400, 16.8 m (55') boom	<b>4985</b>	\$31.94	Ser 4/400, 16.8 m (55') boom	<b>4985</b>	\$31.94	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, 14.3 m (47') boom	<b>4986</b>	\$36.89	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 5/500A/B, 17.1 m (56') boom	<b>4987</b>	\$37.50	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, 14.3 m (47') boom	<b>4989</b>	\$36.43	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	Ser 6/600, 17.1 m (56') boom	<b>4990</b>	\$36.79	Ser 6/600, 17.1 m (56') boom	<b>4990</b>	\$36.79



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

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

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

**PITMAN [ PIT ]**

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

**R.O. PRODUCTS [ ROP ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TC-40	6860	\$28.65
TC-50	6862	\$30.21
TC-70	6864	\$31.57
TC-80	6866	\$31.64
TC-85	6868	\$31.16
TC-110	6870	\$35.32
TC-120	6872	\$35.92
TC-125	6874	\$35.57
TC-145	6876	\$38.50
TC-150	6878	\$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	1000	\$35.20
H-5 series two	1300	\$42.22

**GALION [ GALN ]**

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

**GROVE [ GROV ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TM 100C	2020	\$58.42
TM 200C	2040	\$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)	00-24	\$13.08
7.6 (25)	15.2 (50)	25-49	\$31.99
15.2 (50)	22.9 (75)	50-74	\$46.31

**SCISSOR TYPE [ SCIS ]**

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	6.1 (20)	00-20	\$14.38
6.4 (21)	9.1 (30)	21-30	\$17.61
9.4 (31)	15.2 (50)	31-50	\$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	2370	\$28.63
450B	2610	\$26.85
455B	2620	\$28.61
455C	2620A	\$31.49
1155D	3555	\$54.75
1155E	3556	\$59.01
1450	3560	\$59.44
1450B	3565	\$66.28
1455B	3568	\$67.17

**CATERPILLAR**

[ CAT ]

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

**JOHN DEERE**

[ DEER ]

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

**DRESSER**

[ DRES ]

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

**KOMATSU**

[ KOMA ]

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

			<b>JOHN DEERE</b>	<b>[ DEER ]</b>
			<u>Model</u>	<u>Code</u>
		<u>Rate</u>		<u>Rate</u>
936E	<b>2110</b>	\$69.06		
936F	<b>2120</b>	\$71.78		
938F	<b>2130</b>	\$73.57		
938G	<b>2130G</b>	\$83.01	JD-210C	<b>2485</b> \$25.79
950 90A serial	<b>2228</b>	\$51.73	JD-210C w/ backhoe	<b>2490</b> \$26.10
950 31K & 81J serial	<b>2270</b>	\$64.04	JD-210LE	<b>2495</b> \$34.17
950B	<b>2272</b>	\$79.22	JD-310A w/ backhoe	<b>2504</b> \$27.34
950E	<b>2300</b>	\$84.71	JD-310B w/ backhoe	<b>2506</b> \$28.03
950F	<b>2301</b>	\$89.07	JD-310C w/ backhoe	<b>2507</b> \$30.77
950F Series II	<b>2303</b>	\$92.75	JD-310D w/ backhoe	<b>2507D</b> \$34.94
950G	<b>2310</b>	\$99.90	JD-310E w/ backhoe	<b>2507E</b> \$35.82
950H	<b>2310H</b>	\$116.93	JD-310SE w/ backhoe	<b>2507F</b> \$40.07
962G	<b>2320G</b>	\$109.01	310G	<b>2507G</b> \$36.75
966C	<b>2340</b>	\$95.41	JD-315SE w/ backhoe	<b>2507H</b> \$40.70
966D	<b>2350</b>	\$104.24	JD-410 w/ backhoe	<b>2508</b> \$30.02
966E	<b>2360</b>	\$115.53	JD-410B w/ backhoe	<b>2508B</b> \$30.71
966F	<b>2361</b>	\$118.14	JD-410C w/ backhoe	<b>2508C</b> \$35.86
966G	<b>2362</b>	\$133.81	JD-410D w/ backhoe	<b>2508D</b> \$43.08
966H	<b>2362H</b>	\$156.84	JD-410E w/ backhoe	<b>2508E</b> \$45.16
970F	<b>2370</b>	\$139.53	410G	<b>2508G</b> \$46.14
972G	<b>2372G</b>	\$148.96	410J 4WD	<b>2508J</b> \$53.92
980B	<b>2376</b>	\$117.36	410K	<b>2508K</b> \$57.08
980C	<b>2378</b>	\$147.66	JD-444	<b>2510</b> \$39.68
980F	<b>2381</b>	\$152.50	JD-444C	<b>2515</b> \$41.68
980G	<b>2382</b>	\$168.39	JD-444D	<b>2520</b> \$42.72
980H	<b>2382H</b>	\$185.19	JD-444E	<b>2521</b> \$46.64
988 87A6868 serial	<b>2398</b>	\$142.86	JD-500C w/ backhoe	<b>2592</b> \$39.02
988B 50W serial	<b>2436</b>	\$212.86	JD-510 w/ backhoe	<b>2620</b> \$35.61
992B 25K serial	<b>2460</b>	\$257.29	JD-510B w/ backhoe	<b>2625</b> \$34.99
992C	<b>2470</b>	\$409.03	JD-510C w/ backhoe	<b>2630</b> \$41.04
IT 12	<b>2472</b>	\$34.18	JD-510D w/ backhoe	<b>2630D</b> \$49.10
IT 12B	<b>2472B</b>	\$39.88	JD-544B	<b>2660B</b> \$49.22
IT 14F	<b>2473</b>	\$46.40	JD-544C	<b>2660C</b> \$50.83
IT 18	<b>2474</b>	\$43.48	JD-544D	<b>2660D</b> \$49.74
IT 18B	<b>2475</b>	\$49.28	JD-544E	<b>2660E</b> \$55.12
IT 28	<b>2476</b>	\$52.42	JD-544G	<b>2660G</b> \$61.39
IT 28B	<b>2477</b>	\$57.24	544J	<b>2660J</b> \$81.03
IT 28F	<b>2477G</b>	\$66.53	544K	<b>2660K</b> \$90.32
IT 28G	<b>2478</b>	\$69.72	JD-610B w/ backhoe	<b>2690</b> \$40.02
IT 38G	<b>2480</b>	\$80.21	JD-610C w/ backhoe	<b>2691</b> \$45.25
IT 62G	<b>2482</b>	\$110.28	JD-624E	<b>2700</b> \$66.26
			JD-624G	<b>2700G</b> \$75.73
<b>CLARK</b>	<b>[ CLRK ]</b>		JD-624H	<b>2700H</b> \$82.81
<u>Model</u>	<u>Code</u>	<u>Rate</u>	JD-644B	<b>2710</b> \$68.06
35C	<b>2484</b>	\$41.25	JD-644C	<b>2715</b> \$70.98
45C	<b>2486</b>	\$48.24	JD-644D	<b>2717</b> \$72.86
55C	<b>2488</b>	\$58.12	JD-644E	<b>2719</b> \$79.51
75C	<b>2491</b>	\$76.26	JD-644G	<b>2719B</b> \$91.47
125B	<b>2492</b>	\$97.12	JD-644H	<b>2719H</b> \$98.20
275B	<b>2496</b>	\$169.05	644J	<b>2719J</b> \$110.35
275C	<b>2497</b>	\$187.59	JD-710B w/ backhoe	<b>2720</b> \$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	4544B	\$141.87
WA 450-3	4544C	\$144.79
WA 470-1	4545	\$138.16
WA 500-1	4546	\$169.02
WA 600-1	4550	\$248.67
WB 140-2 4WD	4700	\$44.31
WB 150-2 4WD	4710	\$51.17

**MASSEY FERGUSON [ M-F ]**

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

**NEW HOLLAND [ NHND ]**

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

**TEREX [ TERX ]**

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

**VOLVO-MICHIGAN-EUCLID [ VME ]**

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

L-180C	9602C	\$143.33
L-190	9605	\$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)	0100	\$19.41
16.8 (55)	32.0 (105) (w/o spotter)	0200	\$24.75
over	32.0 (105) (w/o spotter)	0300	\$31.00
0	16.8 (55) (w/ spotter)	1100	\$32.80
16.8 (55)	32.0 (105) (w/ spotter)	1200	\$39.15
over	32.0 (105) (w/ spotter)	1300	\$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)	0400	\$12.86
16.8 (55)	32.0 (105) (w/o spotter)	0500	\$17.92
over	32.0 (105) (w/o spotter)	0600	\$24.17
0	16.8 (55) (w/ spotter)	1400	\$26.26
16.8 (55)	32.0 (105) (w/ spotter)	1500	\$32.32
over	32.0 (105) (w/ spotter)	1600	\$39.59

**NON-OPERATED EQUIPMENT (DAILY [ NONOP ] RATES)**

**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)	0120	\$0.03
Casing, 650 mm dia, per 0.3 m (Casing, 26" dia, per lf)	0130	\$0.06
Casing, 900 mm dia, per 0.3 m (Casing, 36" dia, per lf)	0140	\$0.08
Casing, 1800 mm dia, per 0.3 m (Casing, 72" dia, per lf)	0150	\$0.20
Casing, 2400 mm dia, per 0.3 m (Casing, 96" dia, per lf)	0160	\$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, [ SSWF ]</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			
Scaffolding, 1.5 m section, per section (Scaffolding, 5' section, per section)	<b>0410</b>	\$0.52	<b>TANK [ TANK ]</b>		
Scaffolding, 3.0 m section, per section (Scaffolding, 10' section, per section)	<b>0420</b>	\$1.15	<u>Model</u>	<u>Code</u>	<u>Rate</u>
Scaffolding, 4.6 m section, per section (Scaffolding, 15' section, per section)	<b>0430</b>	\$1.52	Tank, metal, 0-2270 liters (0-600 gallons)	<b>0710</b>	\$0.70
Scaffolding, bottom/top section, per 1.5 m section (per 5 ft section)	<b>0440</b>	\$0.72	Tank, metal, 2270-4540 liters (600-1200 gal)	<b>0720</b>	\$0.96
Scaffolding, 2.1 m high, rolling (Scaffolding, 7' high, rolling)	<b>0450</b>	\$1.08	Tank, metal, 4540-9840 liters (1200-2600 gal)	<b>0730</b>	\$2.38
Scaffolding, spider staging, plus air compressor	<b>0460</b>	\$22.92	Tank, metal, 22 710 liters (6000 gallons)	<b>0740</b>	\$4.78
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, 28 390 liters (7500 gallons)	<b>0750</b>	\$6.00
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, 30 280 liters ( 8000 gallons)	<b>0760</b>	\$6.35
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	Tank, metal, 37 850 liters (10000 gallons)	<b>0770</b>	\$7.04
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

**PAVEMENT GRINDERS, DIAMOND BLADES [ PGDIA ]**

**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

**PAVEMENT GRINDERS, TUNGSTEN-CARBIDE BITS [ PGT-C ]**

**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

**PUMPS, WATER HOSE [ PUMWA ]**

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

<b>MIKASA</b>	<b>[ MIKA ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
MDR 7DW	4404	\$7.08	
MDR 9G	4405	\$10.41	
MDR T38S	4407	\$7.22	
MRV 10GA	4409	\$11.93	

<b>RAYGO</b>	<b>[ RAGO ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
1-36 REBEL	4805	\$11.74	
2-36 ROMPER	4810	\$25.63	
2-66 RANGER	4820	\$68.54	
2-84 RANGER	4830	\$93.76	
220A RASCAL	4840	\$40.03	
320A RASCAL	4876	\$48.72	
320S RASCAL	4890	\$46.00	
400A RASCAL	5010	\$47.80	
404B RUSTLER	5110	\$53.14	
410A RASCAL	5150	\$51.37	
600A RASCAL	5220	\$64.34	
4000 RASCAL	5235	\$68.98	
4200 RASCAL	5236	\$74.94	
4404 RUSTLER	5236E	\$27.61	

<b>RAMMAX</b>	<b>[ RAMX ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
P 33/24	4605	\$16.45	
P 33/24 w/ remote	4606	\$15.75	
P 51	4625	\$62.87	
S 51	4630	\$31.40	
P 47	5290	\$31.29	

<b>SAKAI</b>	<b>[ SAKI ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
SV 70	8025	\$48.76	
SV 70D	8026	\$51.10	
SV 91	8050	\$72.05	
SV 91D	8051	\$74.02	
SV 200D	8060	\$37.53	

<b>TAMPO</b>	<b>[ TAMP ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
RP 16D (HD)	5990	\$46.55	
RP 28D	5995	\$61.85	
RP 48D	6110	\$77.96	
RP 58D	6115	\$73.39	
RS 16 (HD)	6170	\$43.68	
RS16A (HD)	6180	\$45.64	
RS 16D (HD)	6185	\$46.14	
RS 28C	6315	\$57.74	
RS 28D	6320	\$58.96	

RS 58D	6327	\$71.93
RS 156A	6340	\$49.12
RS 166A	6350	\$63.99
RS 188A	6370	\$80.48
RS 210	6400	\$63.31

<b>WACKER</b>	<b>[ WACK ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
R 900	7850	\$17.26	
R 1000	7855	\$28.00	
W 55T	7860	\$9.36	
W 74L, W 74T	7880	\$9.24	
W 74	7890	\$8.90	
W 75	7900	\$8.97	
WDH 84	7910	\$13.07	
WDH 86-110	7912	\$16.65	
WHK 90, WHK 90L	7915	\$15.83	

<b>SHOVELS &amp; CRANES CRAWLER</b>	<b>[ S&amp;CCL ]</b>
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**DELAY FACTOR = 0.21**      **OVERTIME FACTOR = 0.82**  
Includes all attachments and accessories when used as a crane, clamshell, dragline or for pile driving (not including leads or driving equipment).

<b>LINK-BELT</b>	<b>[ L-B ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
LS 78	4702	\$59.72	
LS 78 pipeliner	4724	\$61.72	
LS 98	4826	\$66.10	
LS 98 pipeliner	4852	\$72.11	
LS 98A	4924	\$67.17	
LS 108B	4980	\$76.41	
LS 108D	4981	\$102.70	
LS 118	4998	\$108.21	
LS 218H	5010	\$184.36	
LS 318	5012	\$108.62	
LS 338	5020	\$119.80	
LS 518	5124	\$177.13	

<b>MANITOWOC</b>	<b>[ MTWC ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
222EX (WEST)	5600	\$218.68	
2900 WC	5764	\$94.17	
3000 W	5812	\$111.99	
3900B (100 ton)	6036	\$155.75	
3900 W VICON series 2	6132	\$214.85	
4000 W VICON	6180	\$191.62	
4100 W VICON series 1	6196	\$298.34	
4100 W VICON series 2	6198	\$307.63	
4600 VICON series 1	6328	\$454.75	
4600 VICON series 3	6332	\$498.42	

<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).

**AMERICAN HOIST & DERRICK [ AMHD ]**

<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

**LINK-BELT [ L-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

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

<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.

**REMOTE CONTROL ONLY [ REMC ]**

<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).

**SAWS [ SAW ]**

<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).

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	7.5 (10)	<b>0-10</b>	\$2.68
7.5 (10)	14.9 (20)	<b>10-20</b>	\$5.91
14.9 (20)	24.6 (33)	<b>20-33</b>	\$11.72
24.6 (33)	33.6 (45)	<b>33-45</b>	\$13.51
33.6 (45)	48.5 (65)	<b>45-65</b>	\$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	1395	\$54.22
613B	1400	\$62.42
613C	1402	\$79.30
615	1415	\$108.59
615C	1416	\$119.39
621B cushion hitch	1680	\$137.01
623B	1700	\$142.23
623E	1702	\$171.01
623F	1703	\$180.69
627B push pull	1770	\$180.35
627E non push-pull	1772	\$195.43
627E push-pull	1773	\$199.98
631C 67M5012 serial	2170	\$153.06
631D	2180	\$195.20
631E	2185	\$218.06
633C non cushion hitch	2305	\$148.00
633C cushion hitch	2315	\$147.81
633C 66M693 serial	2320	\$158.29
633D	2330	\$204.72
637 cushion, non-push-pull	2375	\$223.37
637 non-cushion, push-pull	2410	\$225.53
637D non push-pull	2460	\$280.06
637D push-pull	2470	\$283.86
639D	2475	\$293.21
637E	2476	\$311.98
637E push-pull	2477	\$317.18
641B non cushion hitch	2620	\$187.70
641B cushion hitch	2655	\$229.40
651B non cushion hitch	2935	\$234.82
651B cushion hitch	2970	\$237.18
651E	2975	\$304.10
657B non cushion, non p-p	3360	\$364.99
657B cushion, push-pull	3370	\$371.21
657E non push-pull	3375	\$446.30
657E push-pull	3380	\$464.49
660B	3470	\$214.19
666B	3600	\$334.76

**JOHN DEERE [ DEER ]**

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

JD 860A	3920	\$79.58
JD 860B	3930	\$83.69
JD 862	3940	\$100.76
JD 862B	3942	\$126.70

**INTERNATIONAL [ INTL ]**

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

**TEREX [ TERX ]**

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

**WABCO [ WAB ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
101F	8570	\$61.34
101G	8575	\$63.73
111A	8640	\$59.21
222G	8700	\$116.53
222H	8704	\$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	1820	\$24.30
350B	1825	\$26.28
450	1868	\$21.52
450B	1869	\$25.03
450C	1869E	\$27.88
475	1870	\$36.06
550	2000	\$29.05
650	2100	\$34.21
850	2128	\$28.71
850B	2130	\$31.36
850C	2135	\$34.78
850D	2140	\$36.81
1150B	2250	\$43.34
1150C	2255	\$48.69
1150D	2257	\$49.97
1150E	2258	\$51.86

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
D-3	<b>2340</b>	\$24.98
D-3B	<b>2345</b>	\$28.01
D-3 LGP	<b>2350</b>	\$25.59
D-3B LGP	<b>2355</b>	\$29.21
D-3B SA	<b>2370</b>	\$31.00
D-3C	<b>2380</b>	\$29.93
D4C Series III	<b>2450</b>	\$38.83
D-4D	<b>2655</b>	\$30.10
D-4E direct drive	<b>2660</b>	\$32.05
D-4E power shift	<b>2665</b>	\$33.29
D-4H	<b>2670</b>	\$41.96
D-4H LGP	<b>2675</b>	\$42.33
D-4H Series II	<b>2680</b>	\$43.12
D-4E SA	<b>2772</b>	\$38.09
D-4E LGP power shift	<b>2780</b>	\$33.47
D-4E LGP direct drive	<b>2782</b>	\$33.47
D-4G XL	<b>2790XL</b>	\$39.69
D-5	<b>3194</b>	\$43.56
D-5B power shift	<b>3206</b>	\$46.72
D-5B SA	<b>3325</b>	\$50.33
D-5B LGP	<b>3345</b>	\$49.28
D-5C	<b>3346</b>	\$41.93
D-5H	<b>3347</b>	\$56.36
D-5H Series II	<b>3348</b>	\$60.18
D-5H LGP	<b>3350</b>	\$59.27
D-6C direct drive	<b>3645</b>	\$56.09
D-6C power shift	<b>3688</b>	\$56.70
D-6C LGP	<b>3710</b>	\$59.11
D-6D	<b>3720</b>	\$67.01
D-6D SA	<b>3725</b>	\$74.45
D-6D LGP	<b>3730</b>	\$67.44
D-6H	<b>3732</b>	\$75.61
D-6H Series II	<b>3733</b>	\$80.03
D-6H LGP	<b>3735</b>	\$79.98
D-6M LGP	<b>3745</b>	\$75.70
D-6N XL	<b>3755</b>	\$78.12
D-6R DS	<b>3800</b>	\$85.81
D-6R XL	<b>3815</b>	\$89.93
D-7G	<b>4180</b>	\$102.01
D-7G LGP	<b>4200</b>	\$97.99
D-7G SA	<b>4210</b>	\$104.66
D-7H	<b>4215</b>	\$104.53
D-7H Series II	<b>4216</b>	\$113.58
D-7H LGP	<b>4220</b>	\$110.74
D-8K	<b>4858</b>	\$131.77
D-8L	<b>4862</b>	\$160.92
D-8L SA	<b>4863</b>	\$170.29
D-8N	<b>4864</b>	\$146.04

D-8R	<b>4870</b>	\$161.55
D-9H	<b>5160</b>	\$174.38
D-9L	<b>5165</b>	\$211.92
D-9N	<b>5170</b>	\$183.73
D-9R	<b>5175</b>	\$217.46
D-10	<b>5220</b>	\$325.48
D-10N	<b>5225</b>	\$267.32
D-10R	<b>5227</b>	\$299.51
D-11N	<b>5230</b>	\$420.62

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
JD 350C	<b>5360</b>	\$27.26
JD 350D	<b>5365</b>	\$30.39
JD 400G	<b>5405</b>	\$26.36
JD 450C	<b>5474</b>	\$28.04
JD 450D	<b>5476</b>	\$29.16
JD 450E	<b>5478</b>	\$29.41
JD 450G	<b>5479</b>	\$32.45
JD 450J LT/LGP	<b>5479J</b>	\$40.53
JD 550	<b>5480</b>	\$31.78
JD 550A	<b>5481</b>	\$34.45
JD 550B	<b>5483</b>	\$33.23
JD 550G	<b>5484</b>	\$38.00
JD 650G	<b>5484A</b>	\$42.48
JD 650H LGP	<b>5484H</b>	\$46.25
JD 750	<b>5485</b>	\$49.98
JD 750B	<b>5486</b>	\$54.89
JD 750 LGP	<b>5487</b>	\$52.81
JD 750B LGP	<b>5488</b>	\$67.28
JD 850	<b>5490</b>	\$65.25
JD 850B	<b>5491</b>	\$75.39
JD 850 LGP	<b>5492</b>	\$69.82
JD 850B LGP	<b>5495</b>	\$82.32

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TD 7E	<b>9100</b>	\$29.01
TD 7G	<b>9102</b>	\$32.46
TD 8E	<b>9105</b>	\$35.51
TD 8G	<b>9107</b>	\$38.56
TD 12	<b>9110</b>	\$51.32
TD 12 LGP	<b>9115</b>	\$58.68
TD 15C	<b>9120</b>	\$73.80
TD 15E	<b>9122</b>	\$89.32
TD 15C LGP	<b>9125</b>	\$71.04
TD 20E	<b>9130</b>	\$96.78
TD 20G	<b>9135</b>	\$120.44
TD 20G LGP	<b>9137</b>	\$127.80
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 & 600 mm to 900 mm wide (30 to 36 inches high & 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 ]**

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

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

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

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

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

<b>LOW BED D</b>		<b>[ LB-D ]</b>	
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
6 axle			
8 Tires per axle	<b>700</b>	\$62.39	

<b>TRAILERS, EQUIPMENT, TILT BED</b>	<b>[ TRAIT ]</b>
--------------------------------------	------------------

**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).

<b>TILT BED 1 AXLE</b>		<b>[ TB-1 ]</b>	
<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

<b>TILT BED 2 AXLES</b>		<b>[ TB-2 ]</b>	
<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

<b>TRENCHING MACHINES</b>	<b>[ TRENC ]</b>
---------------------------	------------------

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

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

<b>BOBCAT</b>		<b>[ BCAT ]</b>	
<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	

<b>CASE</b>		<b>[ CASE ]</b>	
<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

<b>DITCH WITCH</b>		<b>[ D-W ]</b>	
<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	

<b>MIDMARK</b>		<b>[ MDMK ]</b>	
<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&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**

**LOCATION MAP**

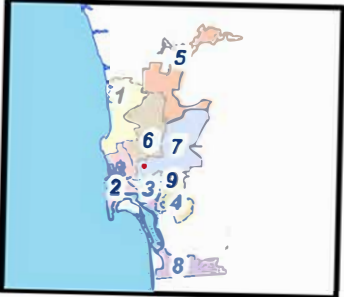


## Cardinal Drive Storm Drain Replacement

SENIOR ENGINEER  
JONG CHOI  
619-533-5493

PROJECT MANAGER  
JEFF CRAMOLINE  
619-533-3156

FOR QUESTIONS ABOUT THIS PROJECT  
Email: [engineering@sandiego.gov](mailto:engineering@sandiego.gov)



### Legend



COMMUNITY NAME: Birdland

COUNCIL DISTRICT: 7

WBS:

Date: December 10, 2018



2395 Cardinal Dr Storm Drain Replacement  
Exhibit L - Location Map

THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission granted by RAND McNALLY & COMPANY to SanGIS. This map is copyrighted by RAND McNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND McNALLY & COMPANY.

**EXHIBIT M**

**CONTRACTOR'S NOTES FOR EMERGENCY PROJECTS**

**CONTRACTOR'S NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LICENSED LAND SURVEYOR OR LICENSED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA SHALL FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR ANY EARTHWORK, DEMOLITION OR SURFACE IMPROVEMENTS. IF DESTROYED, A LICENSED LAND SURVEYOR SHALL REPLACE SUCH MONUMENT(S) WITH APPROPRIATE MONUMENTS. WHEN SETTING SURVEY MONUMENTS USED FOR RE-ESTABLISHMENT OF THE DISTURBED CONTROLLING SURVEY MONUMENTS AS REQUIRED BY SECTIONS 6730.2 AND 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILLED WITH THE COUNTY SURVEYOR. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING AND VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
  
2. CONSTRUCTION STORM WATER PROTECTION NOTES
  - a. TOTAL SITE DISTURBANCE AREA: 0.5 (ACRES)
  
  - b. HYDROLOGIC UNIT/WATERSHED: San Diego \_\_\_\_\_
  
  - c. HYDROLOGIC SUBAREA NAME & NO: Mission San Diego No. 907.11 \_\_\_\_\_
  
  - d. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE
    - MWPCP
  
    - WPCP  
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100
  
    - SWPPP  
THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013- 0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100 AND CONSTRUCTION GENERAL PERMIT ORDER 2009-0009-DWQ AS AMENDED BY ORDER 2010-0014-DWQ AND 2012-0006-DWQ  
TRADITIONAL: RISK LEVEL 1  2  3   
LUP: RISK TYPE 1  2  3
  
  - e.  CONSTRUCTION SITE PRIORITY  
 ASBS  HIGH  MEDIUM  LOW



3. ALL ADVANCE METERING INFRASTRUCTURE (AMI) DEVICES ATTACHED TO THE WATER METER OR LOCATED IN OR NEAR WATER METER BOXES, COFFINS, OR VAULTS SHALL BE PROTECTED AT ALL TIMES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. CONTRACTOR TO EXCAVATE AROUND WATER METER BOX (CITY PROPERTY SIDE) TO DETERMINE IN ADVANCE, THE EXACT SIZE OF EACH SERVICE BEFORE TAPPING MAIN.
5. CITY FORCES, WHERE CALLED OUT SHALL MAKE PERMANENT CUTS & PLUGS, CONNECTIONS, ETC. EXISTING MAINS SHALL BE KEPT IN SERVICE IN LIEU OF HIGH-LINING.
6. STORM DRAIN INLETS ARE TO REMAIN FUNCTIONAL/OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
7. CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER IMMEDIATELY IF A ONE FOOT VERTICAL SEPARATION (FROM OUTSIDE PIPE WALL TO OUTSIDE PIPE WALL) BETWEEN SEWER AND WATER MAINS CANNOT BE MAINTAINED.
8. CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER IMMEDIATELY IF A 6-INCH VERTICAL SEPARATION (FROM OUTSIDE PIPE WALL TO OUTSIDE PIPE WALL) BETWEEN UTILITIES OTHER THAN SEWER AND WATER MAINS CANNOT BE MAINTAINED.
9. CONTRACTOR TO MAINTAIN A MINIMUM 3' OF COVER OVER TOP OF WATER MAIN.
10. IF ADDITIVE ALTERNATE "A" IS AWARDED, CONTRACTOR SHALL FURNISH MATERIALS, INSTALL, MAINTAIN AND DISMANTLE HIGH-LINE PER SPECIFICATION SECTION 900-1.1.5.
11. CONTRACTOR SHALL RESTORE ALL TRENCHES ON THE PAVEMENT WORKED BY CITY FORCES AFTER FINAL CONNECTION.
12. CONTRACTOR SHALL PROVIDE A 1-FOOT SAND CUSHION OR A MINIMUM 6-INCH SAND CUSHION WITH 1-INCH NEOPRENE PAD FOR ALL CROSSINGS WHERE VERTICAL CLEARANCE BETWEEN CROSSINGS IS 1-FOOT OR LESS.
13. POTHOLE ALL UTILITIES THAT CROSS PROPOSED WATER MAIN BEFORE TRENCHING
14. WHEN APPLICABLE, EXISTING UTILITY CROSSING AS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT EXACT.
15. FOR COORDINATION OF THE SHUTDOWN OF TRANSMISSION MAINS (16 INCHES OR LARGER), CONTACT THE CITY'S SENIOR WATER DISTRIBUTION OPERATIONS SUPERVISOR AT (616) 524-7438. FOR COORDINATION OF THE SHUTDOWN OF DISTRIBUTION MAINS (LESS THAN 16 INCHES), CONTACT THE CITY'S WATER OPERATIONS DISTRICT MANAGER AT (619) 527-3945.

**EXHIBIT N**

**NOTICE OF EXEMPTION**

## NOTICE OF EXEMPTION

(Check one or both)

TO:  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  
Public Works Department  
525 B Street, Suite 750, MS 908A  
San Diego, CA 92101

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

**Project No. / WBS No.:** I/O 21004276

**Project Name:** Emergency Repair of sinkhole and  
18-inch CMP – 2395 Cardinal Drive

**Project Location-Specific:** The project is located at 2395 Cardinal Drive in the Serra Mesa Community Planning Area/Council District 7.

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

**Description of nature and purpose of the Project:** Recently a notification was received reporting a sinkhole located between two properties at 2395 Cardinal Drive in the Serra Mesa Area. The sinkhole is located on the northwest corner of the property at 2395 Cardinal Road directly adjacent to a 3-story condominium complex. The sinkhole has exposed the outer foundation of the 3-story building and is approximately 20-feet away from an adjacent house. It was determined the sinkhole was caused by a failed storm drain pipe. Immediate repair of the storm drain pipe is necessary to prevent the sinkhole from getting larger or impacting adjacent properties. Due to the depth of the existing storm drain pipe, the pipe will be repaired using a trenchless method such as directional drilling. This method will require the excavation of two pits, upstream and downstream, of the damaged storm drain pipe. The excavations would occur above the current alignment of the pipe. The project area is primarily located within developed and landscaped areas, impacts to biological resources are not anticipated. Revegetation of areas disturbed by project work will be initiated within 90 days of project completion, and will be completed in accordance with the City's Landscape Standards.

**Name of Public Agency Approving Project:** City of San Diego

**Name of Person or Agency Carrying Out Project:** City of San Diego, Public Works Department  
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.

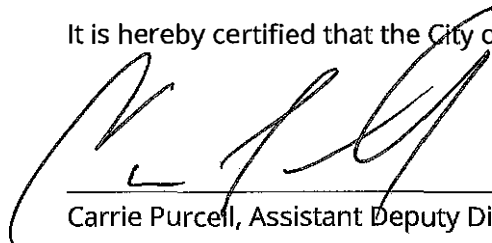
Lead Agency Contact Person: Carrie Purcell

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

1/15/19  
Date

Check One:

(X) Signed By Lead Agency

( ) Signed by Applicant

Date Received for Filing with County Clerk or OPR:

**EXHIBIT O**

**SWPPP CONSTRUCTION BMP MAINTENANCE LOG**

## SWPPP Construction BMP Maintenance Log

Examples of construction BMP maintenance activities include but are not limited to tasks listed below. The contractor is ultimately responsible for compliance with the Storm Water Standards Manual and/or the Construction General Permit, and for ensuring all BMPs function per manufacturer's specifications. Use the attached log to schedule and document maintenance activities. The log shall be kept with the project SWPPP document at all times.

### **Construction BMP Maintenance Activities**

- Maintain stabilized construction entrances/exits
- Redress gravel/rock to full coverage and remove any sediment accumulation
- Remove and replace geotextile/compost blanket/plastic with holes or tears
- Redress and restabilize erosion or rilling greater than 1-inch deep
- Reapply hydraulic stabilization products to full coverage
- Remove and replace silt fence/fiber roll/gravel bags/etc. with holes or tears
- Reinstall or replace silt fence/fiber roll/etc. with sags
- Remove sediment accumulation from perimeter controls
- Remove sediment accumulation from storm drain inlet protection and check dams
- Remove sediment accumulation from energy dissipators
- Repair or remove any vehicle/equipment that leaks
- Remove any accumulation in drip pans or containment
- Empty concrete washouts when they reach 75% capacity
- Empty waste disposal containers when they reach 95% capacity

Construction BMP Maintenance Log

**Project Title:**  
**WBS/IO No:**  
**WDID:**

Scheduled Date/Time	Completion Date/Time	Location	Maintenance Tasks Performed	Logged By