



**THE CITY OF SAN DIEGO**

**M E M O R A N D U M**

**DATE:** November 15, 2022

**TO:** Claudia Abarca, Director, Purchasing & Contracting Department

**FROM:** Rania Amen, Director and City Engineer, Engineering & Capital Projects Department

**SUBJECT:** Sole Source Agreement for Emergency Repair of Pump Station G Emergency Bypass Pump Setup at 728 Pacific Beach Drive

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This memorandum is to certify the declaration of an emergency in order to setup a bypass pump system for the Pump Station G (PS-G) in the Mission Beach community of District 2.

**Estimated Amount:** \$1,500,000 (Not-to Exceed)

**Contractor:** Orion Construction Corporation

**Estimated Completion:** October 31, 2024

**Recommended Action:** Approve Sole Source Request

Pursuant to SDMC §22.3108 (a), " Exceptions to Advertisement and Competitive Award of Engineering & Capital Projects 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:**

During a recent inspection of PS-G, it was identified that one (1) of two (2) 12-inch 40 horsepower pumps has a mechanical failure and is no longer operational. The pump needs to be removed from PS-G to be repaired or replaced. However, significant building structural integrity concerns were observed on the concrete and reinforcing steel structural components that are used to remove the pumps from the pump station for maintenance and repairs. Until the necessary repairs can be made, a bypass pump system is needed to support the required operations at PS-G, especially during the rainy season.

Given that only one pump is currently operational at PS-G, flooding is likely to occur within a 0.2-to-0.25-mile radius of the station during a rain event. PS-G receives runoff from approximately 25 acres of the Mission Beach community and includes more than 50 residential and business properties. Minor streets within 500 feet east of the PS-G would also be susceptible to flooding. Once flooding has occurred, the City's ability to mitigate for

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Claudia Abarca  
November 15, 2022

the flooding impacts will be extremely limited, and the flooding may last for an indefinite period of time (possibly days).

The installation and operation of the necessary bypass system is beyond the capabilities of City staff; therefore it is requested a sole source contract be approved.

**AGREEMENT VALUE & DURATION:**

Unless a modification to the agreement and this sole-source request is issued, the total fee for these services shall not exceed the amount noted above. The term of the agreement will be in effect from date of the agreement execution and shall not exceed the contract completion date noted above.



Rania Amen  
Director and City Engineer, Engineering & Capital Projects

Attachments: 1. Memorandum from Bethany Bezak, to Rania Amen dated September 1, 2022.

cc: Elif Cetin, Deputy Director, Engineering & Capital Projects Department  
Jason Grani, Assistant Deputy Director, Engineering & Capital Projects Department  
Jong Choi, Senior Civil Engineer, Engineering & Capital Projects Department  
Junmin Pan, Associate Engineer - Civil, Engineering & Capital Projects Department  
Berric Doringo, Deputy Director, Purchasing and Contracting Department  
Stephen Samara, Principal Contract Specialist, Purchasing and Contracting Department  
Bethany Bezak, Interim Director, Stormwater Department  
Michael Phillips, Senior Civil Engineer (OCA), Stormwater Department

# City of San Diego

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

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

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

**CITY CONTACT:** Juan Espindola, Senior Contract Specialist, Email: [JEEspindola@sandiego.gov](mailto:JEEspindola@sandiego.gov)

Phone No. (619) 533-4491

J. Pan / M. Antwan / Y. Kawai

## CONTRACT DOCUMENTS

**FINAL**



## FOR

## EMERGENCY DESIGN AND CONSTRUCTION SERVICES FOR: PUMP STATION G EMERGENCY BYPASS PUMP SETUP AT 728 PACIFIC BEACH DRIVE

### VOLUME 1 OF 1

RFQ NO.: K-18-1682-RFQ-3

BID NO.: K-23-2150-EMR-3

SAP NO. (WBS/IO/CC): 21005364

CLIENT DEPARTMENT: 2114

COUNCIL DISTRICT: 2

PROJECT TYPE: BJ

**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

11/21/22

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 PUMP STATION G EMERGENCY BYPASS PUMP SETUP AT 728 PACIFIC BEACH DRIVE. Construction will include but not limited to design and construction services to install a stormwater pump and bypass system at Pump Station G. In addition, the contractor shall hire a design consultant for bypass pump design, hire a consultant for structural design, and maintain the bypass system for up to two years as directed by the City.
- 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 WHITEBOOK.
- 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.
- 1.5. The Design-Builder agrees to provide the required services for the terms and conditions noted in this contract and its exhibits. The agreement and other terms and conditions are included in this Design-Build Contract, The GREENBOOK, The WHITEBOOK, and the Supplementary Special Provisions (SSP).
- 1.6. Any architectural firms, engineering firms, specialty consultants, or individuals retained by the City to assist in drafting the Project's preliminary design may not be eligible to participate in the competition with any Design-Build Entity. It is the responsibility of the Design-Build entity to obtain the required legal advice necessary to resolve such matters.

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

- 2.1. **Prior** to the Award of the Contract or each Task Order, the Contractor must comply with the following registration requirements:
  - 2.1.1. This project is subject to compliance monitoring and enforcement by the California Department of Industrial Relations (DIR). **Contractor and Subcontractor Registration Requirements** for compliance with those requirements are outlined in are outlined in paragraph 7.9 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 requirements (see Equal Opportunity Contracting Program included in this document), and Exhibit K - Forms.

**3.1.** The Design-Builders are encouraged to take positive steps to diversify and expand their subcontractor solicitation base and to offer contracting opportunities to all eligible certified Subcontractors in accordance with the City's EOCP requirements included in the Contract Documents.

**3.2. Design-Builder's Work Force**

**3.2.1.** The Design-Builders shall submit with its Proposal a Work Force Report (EOC Form BB05) and prior to award of contract, the successful Design-Builder shall submit to the City's EOCP office an updated Work Force Report or an Equal Employment Opportunity (EEO) Plan.

**3.2.2.** If under representations are noted in the Work Force Report when compared to County Labor Force Availability data, the Design-Builder shall submit an Equal Opportunity Plan. Any Equal Employment Opportunity Plan submitted shall include the elements as outlined in the EOCP Requirements included in The WHITEBOOK.

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

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

**4. CONTRACT TIME:** The Work shall be completed within **528 Working Days** from the date of issuance of the Notice to Proceed. Design shall be completed concurrent with construction and shall be completed within the first **30 Working Days** of the contract.

**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 7.11 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>	2021	ECPI010122-01
City of San Diego Standard Specifications for Public Works Construction ("The WHITEBOOK")* <a href="https://www.sandiego.gov/ecp/edocref/greenbook">https://www.sandiego.gov/ecp/edocref/greenbook</a>	2021	ECPI010122-02
City of San Diego Standard Drawings* <a href="https://www.sandiego.gov/ecp/edocref/standarddraw">https://www.sandiego.gov/ecp/edocref/standarddraw</a>	2021	ECPI010122-03
Citywide Computer Aided Design and Drafting (CADD) Standards <a href="https://www.sandiego.gov/ecp/edocref/drawings">https://www.sandiego.gov/ecp/edocref/drawings</a>	2018	PWPI010119-04
California Department of Transportation (CALTRANS) Standard Specifications <a href="https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications">https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications</a>	2018	PWPI030119-05
CALTRANS Standard Plans <a href="https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications">https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications</a>	2018	PWPI030119-06
California Manual on Uniform Traffic Control Devices Revision 6 (CA MUTCD Rev 6) <a href="https://dot.ca.gov/programs/safety-programs/camutcd/camutcd-files">https://dot.ca.gov/programs/safety-programs/camutcd/camutcd-files</a>	2014	PWPI060121-10
<p><b>NOTE:</b> *Available online under Engineering Documents and References at: <a href="https://www.sandiego.gov/ecp/edocref/">https://www.sandiego.gov/ecp/edocref/</a> *Electronic updates to the Standard Drawings may also be found in the link above</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 **PORION** 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 4-6, "TRADE NAMES" in The WHITEBOOK and as amended in the SSP.
12. **SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to the GREENBOOK and Special Provisions 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 Purchasing & Contracting Department, Public Works Division, 1200 3rd Ave., Suite 200, MS 56P, 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.
  - 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.

**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.

- 21. DESIGN SUBMITTALS:** The City's review of the Design-Builder's Design Submittals shall not relieve the Design-Builder from its responsibilities under the Contract, or be deemed to be an acceptance or waiver by City of any deviation from, or of the Design-Builder's failure to comply with, any provision or requirement of the Contract Documents, unless such deviation or failure has been identified as such in writing in the document submitted for acceptance by the Design-Builder and accepted by City. Where approval or acceptance by City is required, it is understood to be general approval only, and does not relieve the Design-Builder of responsibility for complying with all applicable laws and good professional practices as the Design-Builder shall be the Engineer of Record.
- 22. WRITTEN AUTHORIZATION:** Prior to performing any Professional Services in connection with the Project, the Contractor shall obtain from the City a written authorization to proceed. Further, throughout the term of this Contract, the Contractor shall immediately advise the City in writing of any anticipated change in the scope of services [**Section 1 - Description of Work**], compensation and rate schedule [**Exhibit O**], or Time Schedule [**Section 4 - Contract Time**], and shall obtain the City's written consent to the change prior to making any changes. In no event shall the City's consent be construed to relieve the Contractor from its duty to render all Professional Services in accordance with applicable laws and accepted industry standards.

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

---

This Emergency Design and Construction Services Agreement (Agreement) is made and entered between THE CITY OF SAN DIEGO, herein called "City" and **ORION CONSTRUCTION CORPORATION** herein called "Contractor", for the purpose of designing (when required) and performing emergency construction services for **PUMP STATION G EMERGENCY BY PASS SET UP AT 728 PACIFIC BEACH DRIVE**, Bid No. **K-23-2150-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 **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 design and 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 2021 GREENBOOK), including those amendments set forth in the City of San Diego Supplement (The 2021 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 Equal Opportunity Contracting Program included in this document.
- 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 all Subcontractors complete a Pledge of Compliance attesting under penalty of perjury that they complied with the requirements of this section. The Contractor shall include in each subcontract agreement, language which requires Subcontractors to abide by the provisions of City Municipal Code §22.3004.
- 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: Stephen Samara  
Principal Contract Specialist  
Purchasing & Contracting Department

Print Name: FREDERICK M. ORTLIEB  
Deputy City Attorney

Date: 3/22/2023

Date: MAY 01, 2023

**CONTRACTOR**

By 

Print Name: Mark Dowsing

Title: President Orion Construction Corporation

Date: 12/21/2022

City of San Diego License No.: B199002970

State Contractor's License No. : 549309

## 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 December 21, 2022 before me, SARAH A. NEWELL, NOTARY PUBLIC  
(insert name and title of the officer)

personally appeared Mark Dowsing,  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in  
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing  
paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Handwritten Signature] (Seal)





**PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND**

---

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

Orion Construction Corporation, a corporation, as principal, and  
Western Surety Company, a corporation authorized to do  
business in the State of California, as Surety, hereby obligate themselves, their successors and assigns,  
jointly and severally, to The City of San Diego a municipal corporation in the sum of One Million  
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 with the City of San Diego, California, then the obligation herein with respect to a faithful performance shall be void; otherwise it shall remain in full force.

If the Principal shall promptly pay all persons, firms and corporations furnishing materials for or performing labor in the execution of this contract, and shall pay all amounts due under the California Unemployment Insurance Act then the obligation herein with respect to laborers and materialmen shall be void; otherwise it shall remain in full force.

The obligation herein with respect to laborers and materialmen shall inure to the benefit of all persons, firms and corporations entitled to file claims under the provisions of Article 2. Claimants, (iii) public works of improvement commencing with Civil Code Section 9100 of the Civil Code of the State of California.

Changes in the terms of the annexed contract or specifications accompanying same or referred to therein shall not affect the Surety's obligation on this bond, and the Surety hereby waives notice of same.

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

The Surety expressly agrees that the City of San Diego may reject any contractor or subcontractor which may be proposed by Surety in fulfillment of its obligations in the event of default by the Principal.

The Surety shall not utilize the Principal in completing the improvements and work specified in the Agreement in the event the City terminates the Principal for default.

PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND (continued)

THE CITY OF SAN DIEGO

APPROVED AS TO FORM

Mara W. Elliott, City Attorney

By: 

By: 

Print Name: Stephen Samara  
Principal Contract Specialist  
Purchasing & Contracting Department

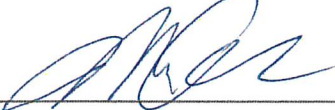
Print Name: FREDERICK M. ORTLIEB  
Deputy City Attorney


Date: 3/22/2023

Date: MAY 01, 2023

CONTRACTOR Orion Construction Corporation

SURETY Western Surety Company

By: 

By:   
Attorney-In-Fact

Print Name: Mark Dowsing, President

Print Name: Lawrence F. McMahon

Date: December 21, 2022

Date: December 20, 2022

1455 Frazee Road, Suite 300, San Diego, CA 92108  
Local Address of Surety

(619) 682-3510  
Local Phone Number of Surety

\$10,380.00  
Premium  
Subject to adjustment based on final contract price  
30172377  
Bond Number

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

**CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California )  
County of San Diego )

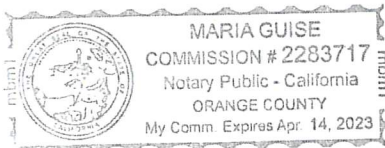
On December 20, 2022 before me, Maria Guise, Notary Public,  
*Date Here Insert Name and Title of the Officer*

personally appeared Lawrence F. McMahon  
*Name(s) of Signer(s)*

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature *Maria Guise*  
*Signature of Notary Public*

Place Notary Seal Above

**OPTIONAL**

*Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.*

**Description of Attached Document**

Title or Type of Document: \_\_\_\_\_  
Document Date: \_\_\_\_\_ Number of Pages: \_\_\_\_\_  
Signer(s) Other Than Named Above: \_\_\_\_\_

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

Signer's Name: \_\_\_\_\_  
 Corporate Officer — Title(s): \_\_\_\_\_  
 Partner —  Limited  General  
 Individual  Attorney in Fact  
 Trustee  Guardian or Conservator  
 Other: \_\_\_\_\_  
Signer Is Representing: Surety Company

Signer's Name: \_\_\_\_\_  
 Corporate Officer — Title(s): \_\_\_\_\_  
 Partner —  Limited  General  
 Individual  Attorney in Fact  
 Trustee  Guardian or Conservator  
 Other: \_\_\_\_\_  
Signer Is Representing: \_\_\_\_\_



# Western Surety Company

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

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

**Lawrence F Mc Mahon, Sarah Myers, Janice Martin, Christopher J Conte, Lilia De Loera, Individually**

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

### - In Unlimited Amounts -

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

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

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 16th day of July, 2021.



WESTERN SURETY COMPANY

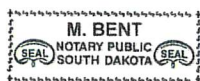
*Paul T. Bruflat*

Paul T. Bruflat, Vice President

State of South Dakota }  
County of Minnehaha } ss

On this 16th day of July, 2021, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires  
March 2, 2026



*M. Bent*

M. Bent, Notary Public

### CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 20th day of December, 2022.



WESTERN SURETY COMPANY

*L. Nelson*

L. Nelson, Assistant Secretary

## 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 December 21, 2022 before me, SARAH A. NEWELL, NOTARY PUBLIC  
(insert name and title of the officer)

personally appeared Mark Dowsing,  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Handwritten Signature] (Seal)



# EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP)

## SECTION A - GENERAL REQUIREMENTS

### A. INTRODUCTION.

1. This document sets forth the following specifications:
  - a) The City's general EOCP requirements for all Construction Contracts.
  - b) Special Provisions for Contracts subject to SLBE and ELBE requirements only.
2. Additional requirements may apply for state or federally funded projects.
3. These requirements shall be included as Contract provisions for all Subcontracts.
4. The City specified forms, instructions, and guides are available for download from the EOCP's web site at: <http://www.sandiego.gov/eoc/forms/index.shtml>

### B. GENERAL.

1. The City of San Diego promotes equal employment and subcontracting opportunities.
2. The City is committed to ensuring that taxpayer dollars spent on public Contracts are not paid to businesses that practice discrimination in employment or subcontracting.
3. The City encourages all companies seeking to do business with the City to share this commitment.

### C. DEFINITIONS.

1. For the purpose of these requirements: Terms "Bid" and "Proposal", "Bidder" and "Proposer", "Subcontractor" and "Subconsultant", "Contractor" and "Consultant", "Contractor" and "Prime Contractor", "Consultant" and "Professional Service Provider", "Suppliers" and "Vendors", "Suppliers" and "Dealers", and "Suppliers" and "Manufacturers" may have been used interchangeably.
2. The following definitions apply:
  - a) **Emerging Business Enterprise (EBE)** - A for-profit business that is independently owned and operated; that is not a subsidiary or franchise of another business and whose gross annual receipts do not exceed the amount set by the City Manager and that meets all other criteria set forth in regulations implementing Municipal Code Chapter 2, Article 2, Division 36. The City Manager shall review the threshold amount for EBEs on an annual basis and adjust as necessary to reflect changes in the marketplace.

- b) **Emerging Local Business Enterprise (ELBE)** - A Local Business Enterprise that is also an Emerging Business Enterprise.
- c) **Minority Business Enterprise (MBE)** - A certified business that is at least fifty-one percent (51%) owned by one or more minority individuals, or, in the case of a publicly owned business at least fifty-one percent (51%) of the stock is owned by one or more minority individuals; and (2) whose daily business operations are managed and directed by one or more minorities owners. Minorities include the groups with the following ethnic origins: African, Asian Pacific, Asian Subcontinent, Hispanic, Native Alaskan, Native American, and Native Hawaiian.
- d) **Women Business Enterprise (WBE)** - A certified business that is at least fifty-one percent (51%) owned by a woman or women, or, in the case of a publicly owned business at least fifty-one percent (51%) of the stock is owned by one or more women; and (2) whose daily business operations are managed and directed by one or more women owners.
- e) **Disadvantaged Business Enterprise (DBE)** - a certified business that is at least fifty-one percent (51%) owned by socially and economically disadvantaged individuals, or, in the case of a publicly owned business at least fifty-one percent (51%) of the stock is owned by one or more socially and economically disadvantaged individuals; and (2) whose daily business operations are managed and directed by one or more socially and economically disadvantaged owners.
- f) **Disabled Veteran Business Enterprise (DVBE)** - A certified business that is at least fifty-one percent (51%) owned by one or more disabled veterans; and (2) business operations must be managed and controlled by one or more disabled veterans. Disabled Veteran is a veteran of the U.S. military, naval, or air service; the veteran must have a service-connected disability of at least 10% or more; and the veteran must reside in California.
- g) **Other Business Enterprise (OBE)** - Any business which does not otherwise qualify as a Minority, Woman, Disadvantaged, or Disabled Veteran Business Enterprise.
- h) **Small Business Enterprise (SBE)** - A for-profit business that is independently owned and operated; that is not a subsidiary or franchise of another business and whose gross annual receipts do not exceed the amount set by the City Manager and that meets all other criteria set forth in regulations implementing Municipal Code Chapter 2, Article 2, Division 36. The City Manager shall review the threshold amount for SBEs on an annual basis and adjust as necessary to reflect changes in the marketplace. A business certified as a Micro Business (MB) or a Disabled Veteran Business Enterprise (DVBE) by the State of

California and that has provided proof of such certification to the City Manager shall be deemed to be an SBE.

- i) **Small Local Business Enterprise (SLBE)** - A Local Business Enterprise that is also a Small Business Enterprise.

**D. CITY'S EQUAL OPPORTUNITY COMMITMENT.**

**1. Nondiscrimination in Contracting Ordinance.**

- a) You, your Subcontractors, and Suppliers shall comply with the requirements of the City's Nondiscrimination in Contracting Ordinance, San Diego Municipal Code §§22.3501 through 22.3517.

You shall not discriminate on the basis of race, gender, gender expression, gender identity, religion, national origin, ethnicity, sexual orientation, age, or disability in the solicitation, selection, hiring, or treatment of subcontractors, vendors, or suppliers. You shall provide equal opportunity for Subcontractors to participate in subcontracting opportunities. You understand and agree that the violation of this clause shall be considered a material breach of the Contract and may result in Contract termination, debarment, or other sanctions.

You shall include the foregoing clause in all Contracts between you and your Subcontractors and Suppliers.

- b) **Disclosure of Discrimination Complaints.** As part of its Bid or Proposal, you shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against you in a legal or administrative proceeding alleging that you discriminated against your employees, Subcontractors, vendors, or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.
- c) Upon the City's request, You agree to provide to the City, within 60 Calendar Days, a truthful and complete list of the names of all Subcontractors and Suppliers that you have used in the past 5 years on any of your Contracts that were undertaken within the San Diego County, including the total dollar amount paid by you for each Subcontract or supply Contract.
- d) You further agree to fully cooperate in any investigation conducted by the City pursuant to the City's Nondiscrimination in Contracting Ordinance, Municipal Code §§22.3501 through 22.3517. You understand and agree that violation of this clause shall be considered a material breach of the Contract and may result in remedies being ordered against you up to and including contract termination, debarment, and other sanctions for the violation of the provisions of the Nondiscrimination in Contracting Ordinance. You further understand and agree that the procedures, remedies, and sanctions provided for in the



Nondiscrimination in Contracting Ordinance apply only to violations of the Ordinance.

**E. EQUAL EMPLOYMENT OPPORTUNITY OUTREACH PROGRAM.**

1. You, your Subcontractors, and Suppliers shall comply with the City's Equal Employment Opportunity Outreach Program, San Diego Municipal Code §§22.2701 through 22.2707.

You shall not discriminate against any employee or applicant for employment on any basis prohibited by law. You shall provide equal opportunity in all employment practices. You shall ensure that your Subcontractors comply with this program. Nothing in this section shall be interpreted to hold you liable for any discriminatory practices of your Subcontractors.

You shall include the foregoing clause in all Contracts between you and your Subcontractors and Suppliers.

2. If the Contract is competitively solicited, the selected Bidder shall submit a Work Force Report (Form BB05) within 10 Working Days after receipt by the Bidder to the City for approval as specified in the Notice of Intent to Award letter.
3. The selected Bidder shall submit an Equal Employment Opportunity Plan if a Work Force Report is submitted and if the City determines that there are under-representations when compared to County Labor Force Availability data.
4. If the selected Bidder submits an Equal Employment Opportunity Plan, it shall include the following assurances:
  - a) You shall maintain a working environment free of discrimination, harassment, intimidation, and coercion at all Sites and in all facilities at which your employees are assigned to Work.
  - b) You shall review your EEO Policy annually with all on-Site supervisors involved in employment decisions.
  - c) You shall disseminate and review your EEO Policy with all employees at least once a year, post the policy statement and EEO posters on all company bulletin boards and job sites, and document every dissemination, review, and posting with a written record to identify the time, place, employees present, subject matter, and disposition of meetings.
  - d) You shall review, at least annually, all supervisors' adherence to and performance under the EEO Policy and maintain written documentation of these reviews.

- e) You shall discuss your EEO Policy Statement with Subcontractors with whom you anticipate doing business, including the EEO Policy Statement in your Subcontracts, and provide such documentation to the City upon request.
- f) You shall document and maintain a record of all Bid solicitations and outreach efforts to and from Subcontractors, contractor associations, and other business associations.
- g) You shall disseminate your EEO Policy externally through various media, including the media of people of color and women, in advertisements to recruit. Maintain files documenting these efforts and provide copies of these advertisements to the City upon request.
- h) You shall disseminate your EEO Policy to union and community organizations.
- i) You shall provide immediate written notification to the City when any union referral process has impeded your efforts to maintain your EEO Policy.
- j) You shall maintain a current list of recruitment sources, including those outreaching to people of color and women, and provide written notification of employment opportunities to these recruitment sources with a record of the organizations' responses.
- k) You shall maintain a current file of names, addresses and phone numbers of each walk-in applicant, including people of color and women, and referrals from unions, recruitment sources, or community organizations with a description of the employment action taken.
- l) You shall encourage all present employees, including people of color and women employees, to recruit others.
- m) You shall maintain all employment selection process information with records of all tests and other selection criteria.
- n) You shall develop and maintain documentation for on-the-job training opportunities, participate in training programs, or both for all of your employees, including people of color and women, and establish apprenticeship, trainee, and upgrade programs relevant to your employment needs.
- o) You shall conduct, at least annually, an inventory and evaluation of all employees for promotional opportunities and encourage all employees to seek and prepare appropriately for such opportunities.
- p) You shall ensure that the company's working environment and activities are non-segregated except for providing separate or single-user toilets and necessary changing facilities to assure privacy between the sexes.

**F. SUBCONTRACTING.**

1. The City encourages all eligible business enterprises to participate in City contracts as a Contractor, Subcontractor, and joint venture partner with you, your Subcontractors, or your Suppliers. You are encouraged to take positive steps to diversify and expand your Subcontractor solicitation base and to offer subcontracting opportunities to all eligible business firms including SLBEs, ELBEs, MBEs, WBEs, DBEs, DVBES, and OBEs.
2. For Subcontractor participation level requirements, see the Contract Documents where applicable.
3. For the purposes of achieving the mandatory Subcontractor participation percentages, City percentage calculations will not account for the following:
  - a) "Field Orders" and "City Contingency" Bid items.
  - b) Alternate Bid items.
  - c) Allowance Bid items designated as "EOC Type II".
4. Allowance Bid items designated as "EOC Type I" will be considered as part of the Base Bid and will be included in the percentage calculation.
5. Each joint venture partner shall be responsible for a clearly defined Scope of Work. In addition, an agreement shall be submitted and signed by all parties identifying the extent to which each joint venture partner shares in ownership, control, management, risk, and profits of the joint venture.

**G. LISTS OF SUBCONTRACTORS AND SUPPLIERS.**

1. You shall comply with the Subletting and Subcontracting Fair Practices Act, Public Contract Code §§4100 through 4113, inclusive.
2. You shall list all Subcontractors who will receive more than 0.5% of the total Bid amount or \$10,000, whichever is greater on the form provided in the Contract Documents (Subcontractors list).
3. The Subcontractors list shall include the Subcontractor's name, telephone number including area code, physical address, Scope of Work, the dollar amount of the proposed Subcontract, the California contractor license number, the Public Works contractor registration number issued pursuant to Section 1725.5 of the Labor Code, and the Subcontractor's certification status with the name of the certifying agency.
4. The listed Subcontractor shall be appropriately licensed pursuant to Contractor License Laws.
5. For Design-Build Contracts, refer to the RFQ and RFP for each Project or Task Order.

**H. SUBCONTRACTOR AND SUPPLIER SUBSTITUTIONS.**

1. Listed Subcontractors and Suppliers shall not be substituted without the Express authorization of the City or its duly authorized agent.
2. Request for Subcontractor or Supplier substitution shall be made in writing to Purchasing & Contracting Department, Public Works Division, Attention Contracts Specialist, 1200 3rd Ave., Suite 200, MS 56P, San Diego, CA 92101 with a copy to the Engineer.
3. The request shall include a thorough explanation of the reason(s) for the substitution, including dollar amounts and a letter from each substituted Subcontractor or Supplier stating that they (the Subcontractors or Suppliers) release all interest in working on the Project and written confirmation from the new Subcontractor or Supplier stating that they agree to work on the Project along with the dollar value of the Work to be performed.
4. Written approval of the substitution request shall be received by you or from the City or its authorized officer prior to any unlisted Subcontractor or Supplier performing Work on the Project.
5. Substitution of Subcontractors and Suppliers without authorization shall subject you to those penalties set forth in Public Contract Code §4110.
6. Requests for Supplier substitution shall be made in writing at least 10 Days prior to the provision of materials, supplies, or services by the proposed Supplier and shall include proof of written notice to the originally listed Supplier of the proposed substitution.
7. A Contractor whose Bid is accepted shall not:
  - a) Substitute a person as Subcontractor or Supplier in place of the Subcontractor or Supplier listed in the original bid, except that the City, or it's duly authorized officer, may consent to the substitution of another person as a Subcontractor or Supplier in any of the following situations:
    - i. When the Subcontractor or Supplier listed in the Bid, after having a reasonable opportunity to do so, fails or refuses to execute a written Contract for the scope of work specified in the subcontractor's bid and at the price specified in the subcontractor's bid, when that written contract, based upon the general terms, conditions, plans, and specifications for the project involved or the terms of the subcontractor's written bid, is presented to the subcontractor by the prime contractor.
    - ii. When the listed Subcontractor or Supplier becomes insolvent or the subject of an order for relief in bankruptcy.
    - iii. When the listed Subcontractor or Supplier fails or refuses to perform his or her subcontract.

- iv. When the listed Subcontractor fails or refuses to meet bond requirements as set forth in Public Contract Code §4108.
  - v. When you demonstrate to the City or its duly authorized officer, subject to the provisions set forth in Public Contract Code §4107.5, that the name of the Subcontractor was listed as the result of an inadvertent clerical error.
  - vi. When the listed Subcontractor is not licensed pursuant to Contractor License Law.
  - vii. When the City, or its duly authorized officer, determines that the Work performed by the listed Subcontractor or that the materials or supplies provided by the listed Supplier are substantially unsatisfactory and not in substantial accordance with the Plans and specifications or that the Subcontractor or Supplier is substantially delaying or disrupting the progress of the Work.
  - viii. When the listed Subcontractor is ineligible to work on a public works project pursuant to §§1777.1 or 1777.7 of the Labor Code.
  - ix. When the City or its duly authorized agent determines that the listed Subcontractor is not a responsible contractor.
- b) Permit a Contract to be voluntarily assigned or transferred or allow it to be performed by anyone other than the original Subcontractor, Supplier listed in the original Bid without the consent of the City, or its duly authorized officer.
  - c) Other than in the performance of "Change Orders" causing changes or deviations from the Contract, sublet or subcontract any portion of the Work, or contract for materials or supplies in excess of 0.5% of your total bid or \$10,000, whichever is greater, as to which his or her original Bid did not designate a Subcontractor or Supplier.
8. Following receipt of notice from you of the proposed substitution of a Subcontractor or Supplier, the listed Subcontractor or Supplier who has been so notified shall have 5 Working Days within which to submit written objections to the substitution to the Contract Specialist with a copy to the Engineer. Failure to file these written objections shall constitute the listed Subcontractor or Supplier's consent to the substitution. If written objections are filed, the City shall give notice in writing of at least 5 Working Days to the listed Subcontractor or Supplier of a hearing by the City on your request for substitution.

**I. PROMPT PAYMENT.**

- 1. You or your Subcontractors shall pay to any subcontractor, not later than 7 Calendar Days of receipt of each progress payment, unless otherwise agreed

to in writing, the respective amounts allowed you on account of the Work performed by the Subcontractors, to the extent of each Subcontractor's interest therein. In cases of Subcontractor performance deficiencies, you shall make written notice of any withholding to the Subcontractor with a copy to the Contracts Specialist. Upon correction of the deficiency, you shall pay the Subcontractor the amount previously withheld within 14 Calendar Days after payment by the City.

2. Any violation of California Business and Professions Code, §7108.5 concerning prompt payment to Subcontractors shall subject the violating Contractor or Subcontractor to the penalties, sanctions, and other remedies of that section. This requirement shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to you or your Subcontractor in the event of a dispute involving late payment or nonpayment by the Prime Contractor, deficient subcontract performance, or noncompliance by a Subcontractor.

**J. PROMPT PAYMENT OF FUNDS WITHHELD TO SUBCONTRACTORS.**

1. The City will hold retention from you and will make prompt and regular incremental acceptances of portions, as determined by the Engineer, of the Work and pay retention to you based on these acceptances.
2. You or your Subcontractors shall return all monies withheld in retention from a Subcontractor within 30 Calendar Days after receiving payment for Work satisfactorily completed and accepted including incremental acceptances of portions of the Work by the City.
3. Federal law (49CFR26.29) requires that any delay or postponement of payment over 30 Calendar Days may take place only for good cause and with the City's prior written approval. Any violation of this provision by you or your Subcontractor shall subject you or your Subcontractor to the penalties, sanctions, and other remedies specified in §7108.5 of the Business and Professions Code.
4. These requirements shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to you or your Subcontractor in the event of a dispute involving late payment or nonpayment by you, deficient subcontract performance, or noncompliance by a Subcontractor.

**K. CERTIFICATION.**

1. The City accepts certifications of DBE, DVBE, MBE, SMBE, SWBE, or WBE by any of the following certifying agencies:
  - a) Current certification by the State of California Department of Transportation (CALTRANS) as DBE, SMBE, or SWBE.

- b) Current MBE, WBE, or DVBE certification from the California Public Utilities Commission.
- c) DVBE certification is received from the State of California's Department of General Services, Office of Small and Minority Business.
- d) Current certification by the City of Los Angeles as DBE, WBE, or MBE.
- e) Subcontractors' valid proof of certification status (copies of MBE, WBE, DBE, or DVBE certifications) shall be submitted as required.

**L. CONTRACT RECORDS AND REPORTS.**

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

## **EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP)**

### **SECTION B - SLBE-ELBE SUBCONTRACTING REQUIREMENTS**

**THESE SPECIAL PROVISIONS SUPPLEMENT THE POLICIES AND REQUIREMENTS ESTABLISHED BY THE CITY OF SAN DIEGO EQUAL OPPORTUNITY CONTRACTING PROGRAM SPECIFIED IN THE CITY'S GENERAL EOCP REQUIREMENTS.**

#### **A. GENERAL.**

1. It is the City's policy to encourage greater availability, capacity development, and contract participation by SLBE and ELBE firms in City contracts. This policy is, in part, intended to further the City's compelling interest to stimulate economic development through the support and empowerment of the local community, ensure that it is neither an active nor passive participant in marketplace discrimination, and promote equal opportunity for all segments of the contracting community.
2. The City is committed to maximizing subcontracting opportunities for all qualified and available firms.
3. This policy applies to City-funded construction contracts. Bidders shall be fully informed of this policy as set forth in these specifications. Mandatory or voluntary subcontracting percentages, Bid Discounts, and restricted competitions are specified in the Contract Documents.
4. You shall make subcontracting opportunities available to a broad base of qualified Subcontractors and shall achieve the minimum SLBE-ELBE Subcontractor participation identified for your project.
5. Failure to subcontract the specified minimum (mandatory) percentages of the Bid to qualified available SLBE-ELBE Subcontractors will cause a Bid to be rejected as non-responsive unless the Bidder has demonstrated compliance with the affirmative steps as specified in the City's document titled "Small Local Business (SLBE) Program, INSTRUCTIONS FOR BIDDERS COMPLETING THE GOOD FAITH EFFORT SUBMITTAL" and has submitted documentation showing that all required positive efforts were made prior to the Bid submittal due date. The required Good Faith Effort (GFE) documentation shall be submitted to the Contract Specialist. The instructions for completing the good faith effort submittal can be found on the City's website:  
<https://www.sandiego.gov/sites/default/files/legacy/eoc/pdf/slbegfeinst.pdf>
6. The current list of certified SLBE-ELBE firms and information for completing the GFE submittal can be found on the City's EOC Department website:  
<http://www.sandiego.gov/eoc/programs/slbe.shtml>
7. These requirements may be waived, at the City's sole discretion, on projects deemed inappropriate for subcontracting participation.



**B.**

**DEFINITIONS.**

1. The following definitions shall be used in conjunction with these specifications:

- a) **Bid Discount** – Additional inducements or enhancements in the bidding process that are designed to increase the chances for the selection of SLBE firms in competition with other firms.
- b) **Commercially Useful Function** – An SLBE-ELBE performs a commercially useful function when it is responsible for the execution of the Work and is carrying out its responsibilities by actually performing, managing, and supervising the Work involved. To perform a commercially useful function, the SLBE-ELBE shall also be responsible, with respect to materials and supplies used on the Contract, for negotiating price, determining quantity and quality, ordering the material, and installing (where applicable) and paying for the material itself.

To determine whether an SLBE-ELBE is performing a commercially useful function, an evaluation will be performed of the amount of Work subcontracted, normal industry practices, whether the amount the SLBE-ELBE firm is to be paid under the contract is commensurate with the Work it is actually performing and the SLBE-ELBE credit claimed for its performance of the Work, and other relevant factors. Specifically, an SLBE-ELBE does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction, contract, or project through which funds are passed in order to obtain the appearance of meaningful and useful SLBE-ELBE participation, when in similar transactions in which SLBE-ELBE firms do not participate, there is no such role performed.

- c) **Good Faith Efforts (GFE)** – Documentation of the Bidder’s intent to comply with SLBE Program goals and procedures included in the City’s SLBE Program, Instructions for Completing Good Faith Effort Submittal available from the City’s EOCP website or the Contract Specialist.
- d) **Independently Owned, Managed, and Operated** – Ownership of a SLBE-ELBE firm shall be direct, independent, and by individuals only. Business firms that are owned by other businesses or by the principals or owners of other businesses that cannot themselves qualify under the SLBE-ELBE eligibility requirements shall not be eligible to participate in the Program. Moreover, the day-to-day management of the SLBE-ELBE firm shall be direct and independent of the influence of any other businesses that cannot themselves qualify under the SLBE-ELBE eligibility requirements.
- e) **Joint Venture** – An association of two or more persons or business entities that is formed for the single purpose of carrying out a single defined business enterprise for which purpose they combine their

capital, efforts, skills, knowledge, or property. Joint ventures shall be established by written agreement to qualify for this program.

- f) **Local Business Enterprise (“LBE”)** – A firm having a Principal Place of Business and a Significant Employment Presence in San Diego County, California that has been in operation for 12 consecutive months and a valid business tax certificate. This definition is subsumed within the definition of Small Local Business Enterprise.
- g) **Minor Construction Program** – A program developed for bidding exclusively among SLBE-ELBE Construction firms.
- h) **Principal Place of Business** – A location wherein a firm maintains a physical office and through which it obtains no less than 50% of its overall customers or sales dollars.
- i) **Protégé** – A firm that has been approved and is an active participant in the City’s Mentor-Protégé Program and that has signed the required program participation agreement and has been assigned a mentor.
- j) **Significant Employee Presence** – No less than 25% of a firm’s total number of employees are domiciled in San Diego County.

**C. SUBCONTRACTOR PARTICIPATION.**

- 1. For the purpose of satisfying subcontracting participation requirements, only 1<sup>st</sup> tier SLBE–ELBE Subcontractors will be recognized as participants in the Contract according to the following criteria:
  - a) For credit to be allowed toward a respective participation level, all listed SLBE-ELBE firms shall have been certified by the Bid due date.
  - b) The Subcontractor shall perform a commercially useful function for credit to be allowed toward subcontractor participation levels. The Subcontractor shall be required by you to be responsible for the execution of a distinct element of the Work and shall carry out its responsibility by actually performing and supervising its own workforce.
  - c) If the Bidder is seeking the recognition of materials, supplies, or both towards achieving any mandatory subcontracting participation level, the Bidder shall indicate on Form AA40 – Named Equipment/Material Supplier List with the Bid the following:
    - i. If the materials or supplies are obtained from a SLBE-ELBE manufacturer, the Bidder will receive 100% of the cost of the materials or supplies toward SLBE participation. For the purposes of counting SLBE-ELBE participation, a manufacturer is a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies,

articles, or equipment required under the Contract and of the general character described by the specifications.

- ii. If the materials or supplies are obtained from a SLBE-ELBE supplier, the Bidder will receive 60% of the cost of the materials or supplies toward SLBE participation. For the purposes of counting SLBE-ELBE participation a Supplier is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under the Contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business. To be a supplier, the firm shall be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question. A person may be a supplier in such bulk items as petroleum products, steel, cement, gravel, stone, or asphalt without owning, operating, or maintaining a place of business if the person both owns and operates distribution equipment for the products. Any supplementing of the suppliers' own distribution equipment shall be by a long-term lease agreement and shall not be on an ad hoc or contract-by-contract basis.
  - iii. If the materials or supplies are obtained from a SLBE-ELBE, which is neither a manufacturer nor a supplier, the entire amount of fees or commissions charged for assistance in the procurement of the materials and supplies, fees or transportation charges for the delivery of materials or supplies required on a job site will be counted toward SLBE-ELBE participation, provided the fees are reasonable and not excessive as compared with fees customarily allowed for similar services. No portion of the cost of the materials and supplies themselves will be counted toward SLBE-ELBE participation.
- d) If the Bidder is seeking the recognition of SLBE-ELBE Trucking towards achieving any mandatory subcontracting participation level, the Bidder shall indicate it on Form AA35 – List of Subcontractors with the Bid. The following factors will be evaluated in determining the credit to be allowed toward the respective participation level:
- i. The SLBE-ELBE shall be responsible for the management and supervision of the entire trucking operation for which it is getting credit on a particular Contract and there shall not be a contrived arrangement for the purpose of counting SLBE-ELBE participation.

- ii. The SLBE-ELBE shall itself own and operate at least 1 fully licensed, insured, and operational truck used on the Contract.
- iii. The SLBE-ELBE receives credit for the total value of the transportation services it provides on the Contract using trucks it owns, insures, and operates using drivers it employs.
- iv. The SLBE-ELBE may lease trucks from another SLBE-ELBE firm including an owner-operator who is certified as a SLBE-ELBE. The SLBE-ELBE who leases trucks from another SLBE-ELBE receives credit for the total value of the transportation services the lessee SLBE-ELBE provides on the contract.
- v. The SLBE-ELBE may also lease trucks from a non-SLBE-ELBE firm, including an owner-operator. The SLBE-ELBE who leases trucks from a non-SLBE-ELBE is entitled to credit for the total value of transportation services provided by non-SLBE-ELBE lessees not to exceed the value of transportation services provided by SLBE-ELBE owned trucks on the contract. Additional participation by non-SLBE-ELBE lessees receive credit only for the fee or commission it receives as a result of the lease arrangement.
- vi. A lease shall indicate that the SLBE-ELBE has exclusive use of and control over the truck. This does not preclude the leased truck from working for others during the term of the lease with the consent of the SLBE-ELBE so long as the lease gives the SLBE-ELBE absolute priority for use of the leased truck.

**D. SLBE-ELBE SUBCONTRACTOR PARTICIPATION PERCENTAGES.**

- 1. Contracts valued at \$1,000,000 and above will be considered Major Public Works Contracts and will include a mandatory Subcontractor participation requirement for SLBE-ELBE firms.
  - a) The Bidder shall achieve the mandatory Subcontractor participation requirement or demonstrate GFE.
  - b) The Bidders shall indicate the participation on Forms AA35 - List of Subcontractors and AA40 - Named Equipment/Material Supplier List as applicable regardless of the dollar value.
  - c) An SLBE-ELBE Bidder may count its own participation toward achieving the mandatory goal as long as the SLBE-ELBE Bidder performs 51% of the Contract Price.

2. Contracts Valued over \$500,000 and under \$1,000,000 will also be considered Major Public Works Contracts and will include the mandatory subcontractor participation requirements described above and the following:
  - a) 5% bid discount for SLBE-ELBE firms.
  - b) Non-certified Contractor will receive 5% bid discount if they achieve the specified mandatory Subcontracting participations.
  - c) Bid discounts shall not apply if the award will result in a total contract cost of \$50,000 in excess of the apparent lowest Bid.
  - d) In the event of a tie bid between a SLBE-ELBE Bidder and a non-SLBE-ELBE Bidder, the SLBE-ELBE Bidder will be awarded the Contract.
  - e) In the event of a tie bid between a discounted Bid and a non-discounted Bid, the discounted Bid will be awarded the Contract.
3. Contracts valued over \$250,000 up to \$500,000 will be considered Minor Public Works Contracts and will be awarded through a competitive Bid process open only to City certified SLBE-ELBE firms. If there are no bidders or no responsible bidders, the Contract will be made available to all Bidders and will be subject to requirements listed in items 1 and 2 for Major Public Works Contracts above.
4. Contracts valued at \$250,000 and below will also be considered Minor Public Works Contracts and will be awarded through a competitive bid process open only to City certified ELBEs unless there are less than 2 firms available at which it will be awarded through a competitive process open only to the City certified SLBE-ELBE firms. If there are no bidders or no responsible bidders, the Contract will be made available to all Bidders and subject to requirements listed in items 1 and 2 for Major Public Works Contracts above.

**E. JOINT VENTURES.**

1. The City may allow for Joint Venture bid discounts on some Contracts. Contracts that allow for Joint Venture bid discounts will be designated in Bid documents. A firm that is bidding or competing for City Contracts may partner with a certified SLBE or ELBE to compete for Contracts as a Joint Venture.
2. A Joint Venture shall be between two entities with the same discipline or license as required by the City. Joint ventures will receive bid discounts depending on the SLBE or ELBE percentage of participation. To be eligible for a discount, a Joint Venture Agreement shall be approved by the City at the time of Bid submittal. The maximum allowable discount shall be 5%. The parties shall agree to enter in the relationship for the life of the projects.
3. Joint Venture shall submit a Joint Venture Management Plan, a Joint Venture Agreement, or both at least 2 weeks prior to the Bid due date. Copies of the

Joint Venture applications are available upon request to the Contract Specialist. Each agreement or management plan shall include the following:

- a) Detailed explanation of the financial contribution for each partner.
  - b) List of personnel and equipment used by each partner.
  - c) Detailed breakdown of the responsibilities of each partner.
  - d) Explanation of how the profits and losses will be distributed.
  - e) Description of the bonding capacity of each partner.
  - f) Management or incentive fees available for any one of the partners (if any).
4. Each Joint Venture partner shall perform a Commercially Useful Function. An SLBE or ELBE that relies on the resources and personnel of a non-SLBE or ELBE firm will not be deemed to perform a Commercially Useful Function.
  5. Each Joint Venture partner shall possess licenses appropriate for the discipline for which a proposal is being submitted. If a Joint Venture is bidding on a single trade project, at the time of bid submittal, each Joint Venture partner shall possess the requisite specialty license for that trade bid.
  6. The SLBE or ELBE partner shall clearly define the portion of the Work to be performed. This Work shall be of the similar type of Work the SLBE or ELBE partner performs in the normal course of its business. The Joint Venture Participation Form shall specify the Bid items to be performed by each individual Joint Venture partner. Lump sum Joint Venture participation shall not be acceptable.
  7. Responsibilities of the SLBE or ELBE Joint Venture Partner:
    - a) The SLBE or ELBE partner shall share in the control, management responsibilities, risks and profits of the Joint Venture in proportion with the level of participation in the project.
    - b) The SLBE or ELBE partner shall perform Work that is commensurate with its experience.
    - c) The SLBE or ELBE partner shall use its own employees and equipment to perform its portion of the Work.
    - d) The Joint Venture as a whole shall perform Bid items that equal or exceed 50% of the Contract Price, excluding the cost of manufactured items, in order to be eligible for a Joint Venture discount.

**F. MAINTAINING PARTICIPATION LEVELS.**

1. Credit and preference points are earned based on the level of participation proposed prior to the award of the Contract. Once the Project begins you shall achieve and maintain the SLBE-ELBE participation levels for which credit and

preference points were earned. You shall maintain the SLBE-ELBE percentages indicated at the Award of Contract and throughout the Contract Time.

2. If the City modifies the original Scope of Work, you shall make reasonable efforts to maintain the SLBE-ELBE participation for which creditor preference points were earned. If participation levels will be reduced, approval shall be received from the City prior to making changes.
3. You shall notify and obtain written approval from the City in advance of any reduction in subcontract scope, termination, or substitution for a designated SLBE-ELBE Subcontractor. Failure to do so shall constitute a material breach of the Contract.
4. If you fail to maintain the SLBE-ELBE participation listed at the time the Contract is awarded and have not received prior approval from the City, the City may declare you in default and will be considered grounds for debarment under Chapter 2, Article 2, Division 8, of the San Diego Municipal Code.

**G. SUBCONTRACTING EFFORTS REVIEW AND EVALUATION.**

1. Documentation of your subcontracting efforts will be reviewed by EOCP to verify that you made subcontracting opportunities available to a broad base of qualified Subcontractors, negotiated in good faith with interested Subcontractors, and did not reject any bid for unlawful discriminatory reasons. The EOCP review is based on the federal "Six Good Faith Efforts" model.
2. The GFEs are required methods to ensure that all ELBE and SLBE firms have had the opportunity to compete for the City's Public Works procurements. The Six Good Faith Efforts, also known as affirmative steps, attract and utilize ELBE and SLBE firms:
  - a) Ensure ELBE firms are made aware of contracting opportunities to the fullest extent practicable through outreach and recruitment activities.
  - b) Make information of forthcoming opportunities available to SLBE-ELBE firms and arrange time for Contracts and establish delivery schedules, where requirements permit, in a way that encourages and facilitates participation by SLBE-ELBE firms in the competitive process. This includes posting solicitations for Bids or proposals to SLBE-ELBE firms for a minimum of 10 Working Days before the Bid or Proposal due date.
  - c) Consider in the contracting process whether firms competing for large Contracts could subcontract with SLBE-ELBE firms.
  - d) Encourage contracting with a consortium of ELBE-SLBE firms when a Contract is too large for one of these firms to handle individually.

- e) Use the services and assistance of the City's EOC Office and the SLBE-ELBE Directory.
- f) If you award subcontracts, require your Subcontractors to take the steps listed above.

**H. GOOD FAITH EFFORT DOCUMENTATION.**

- 1. If the specified SLBE-ELBE Subcontractor participation percentages are not met, you shall submit information necessary to establish that adequate GFEs were taken to meet the Contract Subcontractor participation percentages. See the City's document titled "Small Local Business (SLBE) Program, INSTRUCTIONS FOR BIDDERS COMPLETING THE GOOD FAITH EFFORT SUBMITTAL." The instructions for completing the good faith effort submittal can be found on the City's website:

<https://www.sandiego.gov/sites/default/files/legacy/eoc/pdf/slbefEinst.pdf>

**I. SUBCONTRACTOR SUBSTITUTION.**

- 1. Evidence of fraud or discrimination in the substitution of Subcontractors will result in sanctions including assessment of penalty fines, termination of Contract, or debarment. This section does not replace applicable California Public Contract Code.

**J. FALSIFICATION OF SUB-AGREEMENT AND FRAUD.**

- 1. Falsification or misrepresentation of a sub-agreement as to company name, Contract amount or actual Work performed by Subcontractors, or any falsification or fraud on the part your submission of documentation and forms pursuant to this program, will result in sanctions against you including assessment of penalty fines, termination of the Contract, or debarment. Instances of falsification or fraud which are indicative of an attempt by you to avoid subcontracting with certain categories of Subcontractors on the basis of race, gender, gender expression, gender identity, religion, national origin, ethnicity, sexual orientation, age, or disability shall be referred to the Equal Opportunity Contracting Program's Investigative Unit for possible violations of Article 2, Division 35 of the City Administrative Code, §§22.3501 et seq. (Nondiscrimination in Contracting).

**K. RESOURCES.**

- 1. The current list of certified SLBE-ELBE firms and information for completing the GFE submittal can be found on the City's EOC Department website:

<http://www.sandiego.gov/eoc/programs/slbe.shtml>



**EXHIBIT A**

**DRUG-FREE WORKPLACE CERTIFICATION**

## **CONTRACTOR CERTIFICATION**

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### **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**

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### **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

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### 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 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**

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### **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**

**PRODUCT ENDORSEMENT**

## **CONTRACTOR CERTIFICATION**

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### **PRODUCT ENDORSEMENT**

I declare under penalty of perjury that I acknowledge and agree to comply with the provisions of City of San Diego Administrative Regulation 95.65, concerning product endorsement. Any advertisement identifying or referring to the City as the user of a product or service requires the prior written approval of the City.

**EXHIBIT F**

**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:

**PUMP STATION G EMERGENCY BYPASS PUMP SETUP AT 728 PACIFIC BEACH DRIVE**

(Name of Project)

as particularly described in said contract and identified as Bid No. **K-23-2150-EMR-3**; IO No. **21005364**; 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 G**

**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 H**

**COVID-19 VACCINATION ORDINANCE**

**CERTIFICATION OF COMPLIANCE**

## CONTRACTOR CERTIFICATION

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### COVID-19 VACCINATION ORDINANCE

#### CERTIFICATION OF COMPLIANCE

I hereby certify that I am familiar with the requirements of San Diego City Council Ordinance No. O-2022-53 Emergency Ordinance to Implement the City's Mandatory COVID-19 Vaccination Policy.

#### TERMS OF COMPLIANCE

The Mandatory COVID-19 Vaccination Policy, outlined in San Diego Ordinance O-21398 (Nov. 29, 2021), requires ALL City of San Diego (City) contractors, who interact with City employees while providing contracted services indoors in City facilities or while performing bargaining unit work while indoors, to be fully vaccinated against COVID-19, effective January 3, 2022, as a condition for provision or continued provision of contracted services.

1. "City contractor" means a person who has contracted with the City of San Diego to provide public works, goods, services, franchise, or consultant services for or on behalf of the City, and includes a subcontractor, vendor, franchisee, consultant, or any of their respective officers, directors, shareholders, partners, managers, employees, or other individuals associated with the contractor, subcontractor, consultant, or vendor. "Person" means any natural person, firm, joint venture, joint stock company, partnership, association, club, company, corporation business trust or organization.
2. "Fully vaccinated" means a person has received, at least 14 days prior, either the second dose in a two-dose COVID-19 vaccine series or a single-dose COVID-19 vaccine, or otherwise meets the criteria for full vaccination against COVID-19 as stated in applicable public health guidance, orders, or law. Acceptable COVID-19 vaccines must be approved by the U.S. Food and Drug Administration (FDA) or authorized for emergency use by the FDA or the World Health Organization.
3. Contractors must fully comply with the City's Mandatory COVID-19 Vaccination Policy, which may include a reporting program that tracks employee vaccination status.
4. Contractors must certify that members of their workforce, and subcontractors regardless of tier, who work at a City facility, are fully vaccinated and that the contractor has a program to track employee compliance.
5. Contractors that have an Occupational Safety and Health Administration compliant testing program for members of their workforce, as a reasonable accommodation, may be considered for compliance.

Non-compliance with the City's Mandatory COVID-19 Vaccination Policy may result in termination of a contract for cause, pursuant to the City's General Terms and Provisions, Reference Standards, and the San Diego Municipal Code.



**EXHIBIT I**

**CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS**

**CONTRACTOR'S 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:

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

Contractor Name: Orion Construction Corporation

Certified By Mark Dowsing Title President

  
 Name  
 Signature

Date 12/21/2022

**USE ADDITIONAL FORMS AS NECESSARY**

**EXHIBIT J**

**MANDATORY DISCLOSURE OF BUSINESS INTERESTS FORM**

## Mandatory Disclosure of Business Interests Form

### BIDDER/PROPOSER INFORMATION

Legal Name		DBA	
Orion Construction Corporation		N/A	
Street Address	City	State	Zip
2185 La Mirada Dr.	Vista	CA	92081
Contact Person, Title		Phone	Fax
Jason Danks, VP - Operations Manager		(760)597-9660	(760)597-9661

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.

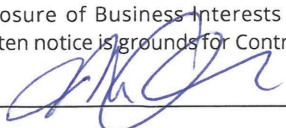
Name	Title/Position
Richard Dowsing	CEO
City and State of Residence	Employer (if different than Bidder/Proposer)
Encinitas, CA	SAME
Interest in the transaction	
100%	

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.

Mark Dowsing, President Orion Construction Corporation



12/21/2022

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.**



## 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 December 21, 2022 before me, SARAH A. NEWELL, NOTARY PUBLIC  
(insert name and title of the officer)

personally appeared Mark Dowsing,  
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 

(Seal)



# EXHIBIT K

## 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 GREENBOOK and Special Provisions Section 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.

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®	WHERE CERTIFIED ®	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>GHD Inc</u> Address: <u>320 Goddard Way Suite 200</u> City: <u>Irvine</u> State: <u>CA</u> Zip: <u>92618</u> Phone: <u>(949)648-5200</u> Email: <u>greg.watanabe@ghd.com</u>	Designer	1000018754	855376	Engineering	TBD - To be Determined based of Rate Schedule	N/A	N/A	N/A
Name: <u>Penhall Company</u> Address: <u>PO Box 842911</u> City: <u>Los Angeles</u> State: <u>CA</u> Zip: <u>90084</u> Phone: <u>(858)550-1111</u> Email: <u>freeman@penhall.com</u>	Constructor	1000000860	568673	Concrete Cutting & Removal	\$1,452.00	N/A	N/A	N/A

- ® 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.**

**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 GREENBOOK and Special Provisions Section 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.

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	WHERE CERTIFIED	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>Robert Hone Welding Inc</u> Address: <u>1078 Evergreen Dr.</u> City: <u>Encinitas</u> State: <u>CA</u> Zip: <u>92024</u> Phone: <u>(760)439-8762</u> Email: <u>roberthonewelding.com</u>	Constructor	1000009489	648506	Welding	\$1,040.00	N/A	N/A	N/A
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**

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIALS OR SUPPLIES	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	WHERE CERTIFIED
Name: Xylem Dewatering Solutions Inc. Address: 11161 Harrel St. City: Mira Loma State: CA Zip: 91752 Phone: (856)467-3636 Email: james.rufing@xylem.com	Materials and Supplies	Estimated Grand Total \$22,696.80	Yes	No	N/A	N/A
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.**

**DEBARMENT AND SUSPENSION CERTIFICATION**

**EFFECT OF DEBARMENT OR SUSPENSION**

To promote integrity in the City's contracting processes and to protect the public interest, the City shall only enter into contracts with responsible bidders and contractors. In accordance with San Diego Municipal Code §22.0814 (a): *Bidders and contractors* who have been *debarred* or *suspended* are excluded from submitting bids, submitting responses to requests for proposal or qualifications, receiving *contract awards*, *executing contracts*, participating as a *subcontractor*, employee, agent or representative of another *person* contracting with the City.

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 Names of the Principal Individual owner(s)

The names of all persons interested in the foregoing proposal as Principals are as follows:

NAME	TITLE
Richard Dowsing	CEO

**IMPORTANT NOTICE:** If Bidder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if Bidder or other interested person is an individual, state first and last names in full.

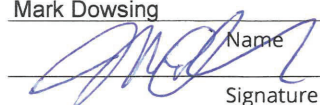
The Bidder, under penalty of perjury, certifies that, except as noted below, he/she or any person associated therewith in the capacity of owner, partner, director, officer, manager:

- Is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal, State or local agency;
- has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal, State or local agency within the past 3 years;
- does not have a proposed debarment pending; and
- has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

Exceptions will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

Contractor Name: Orion Construction Corporation

Certified By Mark Dowsing Title President  
 Name \_\_\_\_\_ Date 12/21/2022  
 Signature \_\_\_\_\_

**NOTE:** Providing false information may result in criminal prosecution or administrative sanctions.

## 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 December 21, 2022 before me, SARAH A. NEWELL, NOTARY PUBLIC  
(insert name and title of the officer)

personally appeared Mark Dowsing,  
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 

(Seal)





Names of the Principal individual owner(s)  
**FOR SUBCONTRACTORS/SUPPLIERS/MANUFACTURERS**

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 Names of the Principal Individual owner(s) for their subcontractor/supplier/manufacturers.

Please indicate if principal owner is serving in the capacity of **subcontractor**, **supplier**, and/or **manufacturer**:

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

NAME	TITLE
GHD Inc.	Greg Watanabe - Principal and Vice President
Penhall Company	Greg Rice - President
Robert Hone Welding Inc	Robert Hone - President/Owner

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

NAME	TITLE
Xylem Dewatering Solutions Inc.	Joseph Johnston - President, Secretary, and CFO

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

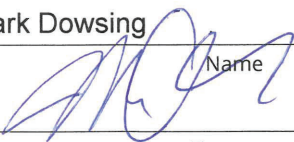
NAME	TITLE

SUBCONTRACTOR                       SUPPLIER                       MANUFACTURER

NAME	TITLE

Contractor Name: Orion Construction Corporation

Certified By Mark Dowsing Title President

  
 Name  
 Signature

Date 12/21/2022

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



### EQUAL OPPORTUNITY CONTRACTING (EOC)

1200 Third Avenue, Suite 200 • San Diego, CA 92101

Phone: (619) 236-6000 • Fax: (619) 236-5904

## WORK FORCE REPORT

The objective of the *Equal Employment Opportunity Outreach Program*, San Diego Municipal Code Sections 22.3501 through 22.3517, is to ensure that contractors doing business with the City, or receiving funds from the City, do not engage in unlawful discriminatory employment practices prohibited by State and Federal law. Such employment practices include, but are not limited to unlawful discrimination in the following: employment, promotion or upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rate of pay or other forms of compensation, and selection for training, including apprenticeship. Contractors are required to provide a completed *Work Force Report (WFR)*.

NO OTHER FORMS WILL BE ACCEPTED

#### CONTRACTOR IDENTIFICATION

Type of Contractor:  Construction  Vendor/Supplier  Financial Institution  Lessee/Lessor  
 Consultant  Grant Recipient  Insurance Company  Other

Name of Company: \_\_\_\_\_

ADA/DBA: \_\_\_\_\_

Address (Corporate Headquarters, where applicable): \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

Name of Company CEO: \_\_\_\_\_

Address(es), phone and fax number(s) of company facilities located in San Diego County (if different from above):

Address: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_ Email: \_\_\_\_\_

Type of Business: \_\_\_\_\_ Type of License: \_\_\_\_\_

The Company has appointed: \_\_\_\_\_

As its Equal Employment Opportunity Officer (EEOO). The EEOO has been given authority to establish, disseminate and enforce equal employment and affirmative action policies of this company. The EEOO may be contacted at:

Address: \_\_\_\_\_

Telephone Number: ( ) \_\_\_\_\_ Fax Number: \_\_\_\_\_ Email: \_\_\_\_\_

- One San Diego County (or Most Local County) Work Force - Mandatory
- Branch Work Force \*
- Managing Office Work Force

Check the box above that applies to this WFR.

\*Submit a separate Work Force Report for all participating branches. Combine WFRs if more than one branch per county.

I, the undersigned representative of \_\_\_\_\_  
(Firm Name)

\_\_\_\_\_, \_\_\_\_\_ hereby certify that information provided  
(County) (State)

herein is true and correct. This document was executed on this \_\_\_\_\_ day of \_\_\_\_\_, 20 . \_\_\_\_\_

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

\_\_\_\_\_  
(Print Authorized Signature Name)

**WORK FORCE REPORT – Page 2**

NAME OF FIRM: \_\_\_\_\_ DATE: \_\_\_\_\_

OFFICE(S) or BRANCH(ES): \_\_\_\_\_ COUNTY: \_\_\_\_\_

INSTRUCTIONS: For each occupational category, indicate number of males and females in every ethnic group. Total columns in row provided. Sum of all totals should be equal to your total work force. Include all those employed by your company on either a full or part-time basis. The following groups are to be included in ethnic categories listed in columns below:

- (1) Black or African-American
- (2) Hispanic or Latino
- (3) Asian
- (4) American Indian or Alaska Native
- (5) Native Hawaiian or Pacific Islander
- (6) White
- (7) Other race/ethnicity; not falling into other groups

*Definitions of the race and ethnicity categories can be found on Page 4*

ADMINISTRATION OCCUPATIONAL CATEGORY	(1) Black or African American		(2) Hispanic or Latino		(3) Asian		(4) American Indian/ Nat. Alaskan		(5) Pacific Islander		(6) White		(7) Other Race/ Ethnicity	
	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)
Management & Financial														
Professional														
A&E, Science, Computer														
Technical														
Sales														
Administrative Support														
Services														
Crafts														
Operative Workers														
Transportation														
Laborers*														

\*Construction laborers and other field employees are not to be included on this page

Totals Each Column														
--------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Grand Total All Employees**

Indicate by Gender and Ethnicity the Number of Above Employees Who Are Disabled:

Disabled														
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Non-Profit Organizations Only:

Board of Directors														
Volunteers														
Artists														

**WORK FORCE REPORT – Page 3**

NAME OF FIRM: \_\_\_\_\_ DATE: \_\_\_\_\_

OFFICE(S) or BRANCH(ES): \_\_\_\_\_ COUNTY: \_\_\_\_\_

INSTRUCTIONS: For each occupational category, indicate number of males and females in every ethnic group. Total columns in row provided. Sum of all totals should be equal to your total work force. Include all those employed by your company on either a full or part-time basis. The following groups are to be included in ethnic categories listed in columns below:

- (1) Black or African-American
- (2) Hispanic or Latino
- (3) Asian
- (4) American Indian or Alaska Native
- (5) Native Hawaiian or Pacific Islander
- (6) White
- (7) Other race/ethnicity; not falling into other groups

Definitions of the race and ethnicity categories can be found on Page 4

TRADE OCCUPATIONAL CATEGORY	(1) Black or African American		(2) Hispanic or Latino		(3) Asian		(4) American Indian/ Nat. Alaskan		(5) Pacific Islander		(6) White		(7) Other Race/ Ethnicity	
	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)
Brick, Block or Stone Masons														
Carpenters														
Carpet, Floor & Tile Installers Finishers														
Cement Masons, Concrete Finishers														
Construction Laborers														
Drywall Installers, Ceiling Tile Inst														
Electricians														
Elevator Installers														
First-Line Supervisors/Managers														
Glaziers														
Helpers; Construction Trade														
Millwrights														
Misc. Const. Equipment Operators														
Painters, Const. & Maintenance														
Pipelayers, Plumbers, Pipe & Steam Fitters														
Plasterers & Stucco Masons														
Roofers														
Security Guards & Surveillance Officers														
Sheet Metal Workers														
Structural Metal Fabricators & Fitters														
Welding, Soldering & Brazing Workers														
Workers, Extractive Crafts, Miners														

Totals Each Column														
--------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Grand Total All Employees**

Indicate By Gender and Ethnicity the Number of Above Employees Who Are Disabled:

Disabled														
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--

## Work Force Report

### **HISTORY**

The Work Force Report (WFR) is the document that allows the City of San Diego to analyze the work forces of all firms wishing to do business with the City. We are able to compare the firm's work force data to County Labor Force Availability (CLFA) data derived from the United States Census. CLFA data is a compilation of lists of occupations and includes the percentage of each ethnicity we track (American Indian or Alaska Native, Asian, Black or African-American, Native Hawaiian or Pacific Islander, White, and Other) for each occupation. Currently, our CLFA data is taken from the 2010 Census. In order to compare one firm to another, it is important that the data we receive from the consultant firm is accurate and organized in the manner that allows for this fair comparison.

### **WORK FORCE & BRANCH WORK FORCE REPORTS**

When submitting a WFR, especially if the WFR is for a specific project or activity, we would like to have information about the firm's work force that is actually participating in the project or activity. That is, if the project is in San Diego and the work force is from San Diego, we want a San Diego County Work Force Report<sup>1</sup>. By the same token, if the project is in San Diego, but the work force is from another county, such as Orange or Riverside County, we want a Work Force Report from that county<sup>2</sup>. If participation in a San Diego project is by work forces from San Diego County and, for example, from Los Angeles County and from Sacramento County, we ask for separate Work Force Reports representing your firm from each of the three counties.

### **MANAGING OFFICE WORK FORCE**

Equal Opportunity Contracting may occasionally ask for a Managing Office Work Force (MOWF) Report. This may occur in an instance where the firm involved is a large national or international firm but the San Diego or other local work force is very small. In this case, we may ask for both a local and a MOWF Report<sup>1,3</sup>. In another case, when work is done only by the Managing Office, only the MOWF Report may be necessary.<sup>3</sup>

### **TYPES OF WORK FORCE REPORTS:**

Please note, throughout the preceding text of this page, the superscript numbers one <sup>1</sup>, two <sup>2</sup> & three <sup>3</sup>. These numbers coincide with the types of work force report required in the example. See below:

<sup>1</sup> One San Diego County (or Most Local County) Work Force –  
Mandatory in most cases

<sup>2</sup> Branch Work Force \*

<sup>3</sup> Managing Office Work Force

*\*Submit a separate Work Force Report for all participating branches.  
Combine WFRs if more than one branch per county.*

### **RACE/ETHNICITY CATEGORIES**

**American Indian or Alaska Native** – A person having origins in any of the peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment.

**Asian** – A person having origins in any of the peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.

**Black or African American** – A person having origins in any of the Black racial groups of Africa.

**Native Hawaiian or Pacific Islander** – A person having origins in any of the peoples of Hawaii, Guam, Samoa, or other Pacific Islands.

**White** – A person having origins in any of the peoples of Europe, the Middle East, or North Africa.

**Hispanic or Latino** – A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin.



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**Exhibit A: Work Force Report Job Categories – Administration**

Refer to this table when completing your firm's Work Force Report form(s).

**Management & Financial**

Advertising, Marketing, Promotions, Public Relations, and Sales Managers

Business Operations Specialists

Financial Specialists

Operations Specialties Managers

Other Management Occupations

Top Executives

**Professional**

Art and Design Workers

Counselors, Social Workers, and Other Community and Social Service Specialists

Entertainers and Performers, Sports and Related Workers

Health Diagnosing and Treating Practitioners

Lawyers, Judges, and Related Workers

Librarians, Curators, and Archivists

Life Scientists

Media and Communication Workers

Other Teachers and Instructors

Postsecondary Teachers

Primary, Secondary, and Special Education School Teachers

Religious Workers

Social Scientists and Related Workers

**Architecture & Engineering, Science, Computer**

Architects, Surveyors, and Cartographers

Computer Specialists

Engineers

Mathematical Science Occupations

Physical Scientists

**Technical**

Drafters, Engineering, and Mapping Technicians

Health Technologists and Technicians

Life, Physical, and Social Science Technicians

Media and Communication Equipment Workers

**Sales**

Other Sales and Related Workers

Retail Sales Workers

Sales Representatives, Services

Sales Representatives, Wholesale and Manufacturing

Supervisors, Sales Workers

**Administrative Support**

Financial Clerks

Information and Record Clerks

Legal Support Workers

Material Recording, Scheduling, Dispatching, and Distributing Workers

Other Education, Training, and Library Occupations

Other Office and Administrative Support Workers

Secretaries and Administrative Assistants

Supervisors, Office and Administrative Support Workers

**Services**

Building Cleaning and Pest Control Workers

Cooks and Food Preparation Workers

Entertainment Attendants and Related Workers

Fire Fighting and Prevention Workers

First-Line Supervisors/Managers, Protective Service Workers

Food and Beverage Serving Workers

Funeral Service Workers

Law Enforcement Workers

Nursing, Psychiatric, and Home Health Aides

Occupational and Physical Therapist Assistants and Aides

Other Food Preparation and Serving Related Workers

Other Healthcare Support Occupations

Other Personal Care and Service Workers

Other Protective Service Workers

Personal Appearance Workers

Supervisors, Food Preparation and Serving Workers

Supervisors, Personal Care and Service Workers

Transportation, Tourism, and Lodging Attendants

**Crafts**

Construction Trades Workers

Electrical and Electronic Equipment Mechanics,  
Installers, and Repairers

Extraction Workers

Material Moving Workers

Other Construction and Related Workers

Other Installation, Maintenance, and Repair  
Occupations

Plant and System Operators

Supervisors of Installation, Maintenance, and Repair  
Workers

Supervisors, Construction and Extraction Workers

Vehicle and Mobile Equipment Mechanics, Installers,  
and Repairers

Woodworkers

**Operative Workers**

Assemblers and Fabricators

Communications Equipment Operators

Food Processing Workers

Metal Workers and Plastic Workers

Motor Vehicle Operators

Other Production Occupations

Printing Workers

Supervisors, Production Workers

Textile, Apparel, and Furnishings Workers

**Transportation**

Air Transportation Workers

Other Transportation Workers

Rail Transportation Workers

Supervisors, Transportation and Material Moving  
Workers

Water Transportation Workers

**Laborers**

Agricultural Workers

Animal Care and Service Workers

Fishing and Hunting Workers

Forest, Conservation, and Logging Workers

Grounds Maintenance Workers

Helpers, Construction Trades

Supervisors, Building and Grounds Cleaning and  
Maintenance Workers

Supervisors, Farming, Fishing, and Forestry Workers

## **Exhibit B: Work Force Report Job Categories-Trade**

### **Brick, Block or Stone Masons**

Brickmasons and Blockmasons

Stonemasons

### **Carpenters**

### **Carpet, floor and Tile Installers and Finishers**

Carpet Installers

Floor Layers, except Carpet, Wood and Hard Tiles

Floor Sanders and Finishers

Tile and Marble Setters

### **Cement Masons, Concrete Finishers**

Cement Masons and Concrete Finishers

Terrazzo Workers and Finishers

### **Construction Laborers**

### **Drywall Installers, Ceiling Tile Inst**

Drywall and Ceiling Tile Installers

Tapers

### **Electricians**

### **Elevator Installers and Repairers**

### **First-Line Supervisors/Managers**

First-line Supervisors/Managers of Construction

Trades and Extraction Workers

### **Glaziers**

### **Helpers, Construction Trade**

Brickmasons, Blockmasons, and Tile and Marble Setters

Carpenters

Electricians

Painters, Paperhangers, Plasterers and Stucco

Pipelayers, Plumbers, Pipefitters and Steamfitters

Roofers

All other Construction Trades

### **Millwrights**

Heating, Air Conditioning and Refrigeration Mechanics and Installers

Mechanical Door Repairers

Control and Valve Installers and Repairers

Other Installation, Maintenance and Repair Occupations

### **Misc. Const. Equipment Operators**

Paving, Surfacing and Tamping Equipment Operators

Pile-Driver Operators

Operating Engineers and Other Construction Equipment Operators

### **Painters, Const. Maintenance**

Painters, Construction and Maintenance

Paperhangers

### **Pipelayers and Plumbers**

Pipelayers

Plumbers, Pipefitters and Steamfitters

### **Plasterers and Stucco Masons**

### **Roofers**

### **Security Guards & Surveillance Officers**

### **Sheet Metal Workers**

### **Structural Iron and Steel Workers**

### **Welding, Soldering and Brazing Workers**

Welders, Cutter, Solderers and Brazers

Welding, Soldering and Brazing Machine Setter, Operators and Tenders

### **Workers, Extractive Crafts, Miners**

**EXHIBIT L**

**SUPPLEMENTARY SPECIAL PROVISIONS**

## **SUPPLEMENTARY SPECIAL PROVISIONS**

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

1. The **2021 Edition** of the Standard Specifications for Public Works Construction (The "GREENBOOK").
2. The **2021 Edition** of the City of San Diego Standard Specifications for Public Works Construction (The "WHITEBOOK"), including the following:
  - a) General Provisions (A) for all Construction Contracts.
  - b) General Provisions (B) for Design-Build and Multiple Award Construction Contracts.

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

- 1-2 TERMS AND DEFINITIONS.** To the "WHITEBOOK", item 55, "Normal Working Hours", ADD the following:

**Normal Working Hours** - Normal Working Hour core periods shall be 7:00 AM – 5:00 PM, Monday through Friday, inclusive. Saturdays, Sundays, and City Holidays are excluded. Normal Working Hours on Roadways are defined as 8:30 AM - 3:30 PM.

### **SECTION 2 – SCOPE OF THE WORK**

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

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

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

2. Compensation for "Time-and-Material" emergency Contracts.
  - a) You will be compensated for charges directly associated with the project. staff
  - 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

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

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

**3-10.1**       **General.**

1.       You shall provide all required site layout not specified in this section.
2.       Unless surveying services are provided by the City, only the Design Firm, not the Contractor, shall be allowed to hire a Licensed Land Surveyor or a Registered Civil Engineer authorized to practice land surveying within the State of California to provide all surveying services needed for the design, and if requested by the City, also for the construction activities required for the completion of the Project. Surveying services include, but are not limited to: land, aerial, topographic and construction.
3.       If requested by the City, the Design Firm shall submit a letter to the City's Project Manager identifying the Licensed Land Surveyor or the Registered Civil Engineer authorized to practice land surveying within the State of California that will be performing the design and/or construction phase survey services for the Project.
4.       Where applicable, notify the City in writing at least 2 Working Days prior to requesting survey services to be provided by the City.
5.       The Design Firm is responsible for performing and meeting the accuracy of surveying standards adequate for design and construction through the Design Firm's Licensed Land Surveyor or Registered Civil Engineer authorized to practice land surveying within the State of California.
6.       All Survey Services deliverables shall be submitted per the City's CADD Standards and pertinent Public Works Department Engineering Deliverable specifications.  
  
<https://www.sandiego.gov/ecp/edocref/drawings>
7.       All Survey Services and deliverables which reveal non-compliance with the requirements of the Construction Documents and standards shall be corrected as deemed necessary by the City at the Design-Builder's expense.
8.       Where Survey Services are provided by the City, all construction survey stakes, control points, and other survey related marks shall be preserved for the duration of the Project. If any construction survey stakes, control points, or other survey related marks are lost or disturbed and need to be replaced, such replacement shall be performed at the Design-Builder's expense.

9. The City's Land Survey Section (LSS) shall be notified a minimum of 2 Working Days (large projects may require more) before any ground is to be disturbed within the City of San Diego (concrete, asphalt, or dirt). The LSS may need to inspect the site and provide monumentation information.

**3-10.2 Monument Perpetuation.**

1. Monument Perpetuation, including mark-outs, will be performed by the Engineering & Capital Projects Department, Construction Engineering Support Division, Land Survey Section (LSS), unless otherwise noted. You are responsible for requesting the coordination of these services.
2. If at any time a monument will be destroyed or covered, such monument shall be perpetuated in accordance with state law. Inform the LSS, via project Resident Engineer, if any monument will be destroyed or covered during any construction activity.

**3-10.3 Line and Grade.**

1. The Work shall conform to the lines, elevations, and grades shown on the Plans. Three consecutive points set on the same slope shall be used together so that any variation from a straight grade can be detected. Any such variation shall be reported to the City's PM. In the absence of such report, the Surveyor shall be responsible for any error in the grade of the Work.
2. Grades for underground conduits will be set at the surface of the ground. The Design-Builder shall transfer them to the bottom of the trench.

**3-10.4 Topographic and Monument Survey – Preliminary Design.**

1. Topographic field survey shall include all existing ground surface topography, fencing, hardscape, utilities, roadway surface, and curb returns within the delineated mapping limit. Monument survey shall include the sufficient collection of existing record survey monuments to perform right-of-way (ROW) analysis along within subject mapping limits.
2. Unless otherwise specified, the Land Surveyor shall adhere to Section 3 of the Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys (Effective February 23, 2016).  
<https://www.nspss.com/page/ALTANSPPStandards>
3. Horizontal Control shall be based on the CCS83 Zone 6, 1991.35 epoch, U.S. Survey Feet per Record of Survey Map No. 14492 (ROS 14492). It is required to tie into a first order monument per ROS 14492 unless a first order monument no longer exists within a three mile radius. Horizontal control measurements shall be collected in conformance with the local standard of practice.
4. Vertical Control shall be based on NGVD29 per benchmarks in the City of San Diego Bench Book. Non 1970 adjusted and 1970 adjusted benchmarks listed

with an asterisk (\*) in the City Benchmark book are not to be used together for Vertical Control – common adjustment sets are to be used.

5. All topographic field survey data shall be collected using conventional survey methods utilizing total station instrumentation.
6. Deliverables.
  - a) Horizontal and Vertical Control.
    - i. Completed Calibration sheet as provided indicating the monuments used to establish the Basis of Bearings and Vertical Benchmark held to control this survey.
  - b) Field Data.
    - i. Data collected as points and break lines to define a proper DTM if requested outside of aerial mapping.
    - ii. Includes utilities collected on surface as required.
    - iii. Includes Horizontal control points from ROS 14492 used to define the Basis of Bearings and Vertical control Benchmark(s) to establish elevation.
    - iv. Includes record monument points.
    - v. Data collector project files.
    - vi. Raw (unedited) data file.
    - vii. Project file.
    - viii. Point comma delimited text file formatted.
  - c) Topography.
    - i. Create and deliver a complete ASCII coordinate list (.txt/.doc etc.) of all field collected survey points.
      - The contours produced from the surface digital terrain model (dtm) shall meet or exceed ASPRS 90 standards where 68% (1 $\sigma$ ) of the contours tested fall within 1/3 contour interval. Any point tested that is more than 3 $\sigma$  out shall be regarded as a blunder. These standards closely parallel the familiar National Map Accuracy Standards.
  - d) Records Research.
    - i. All public or private records acquired to determine the City's ROW in the project area delivered in digital or hardcopy format with any markups and City Records as acquired.
      - City records may include but are not limited to GIS scope plots, sewer and water sheets, loose leaf survey



notes, Tie Point sheets, dedication or vacation drawings, easement drawings, benchmark list, and etc.

- After initial search of City records by the Surveyor, they may request City assistance to search for hard to find records.

e) Survey Monument Measurements.

- i. All found monuments located within, or near, the survey limits shall be searched and measured. Sufficient additional monuments to control all boundaries extending from the survey limits shall be tied (i.e. block corners, Points of Curve etc.) to the next available survey monument past the survey limits.
  - All Monuments found shall be described with details as to what was found along with identifying number.

**3-10.5 Monument Search, Field Boundary Survey and Boundary Analysis – Right-of-Way (ROW) Mapping.**

1. The monument survey, for each designated site, shall be of sufficient coverage and quality for a Right-of-Way boundary analysis performed and provided in conformance with City CADD standards.
2. Surveyor shall deliver to the City all requested survey information and CADD data, as specified below, upon completion of the Monument Survey and Boundary Analysis.
3. Unless otherwise specified, the Land Surveyor shall adhere to Section 3 of the Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys (Effective February 23, 2016).

<https://www.nspss.com/page/ALTANSPPStandards>

4. Field monument survey to be performed and provided in conformance with City CADD standards.
5. Field Measurements shall be collected in conformance the local standard of practice.
6. Horizontal Control shall be based on the CCS83 Zone 6, 1991.35 epoch, U.S. Survey Feet units, per City of San Diego Record of Survey Map No. 14492 (ROS 14492). All Project survey control shall be based upon field-tied measurements to a Horizontal First Order monument as shown on ROS 14492. Where existing First Order monument cannot be recovered or located within a 3-mile radial distance from the project site a Horizontal Second-Order Monument may be used as Project survey basis. The Project vertical control datum shall be based on NGVD29 per benchmarks identified in the City of San Diego Vertical Control

Bench Book (Bench Book). All Project benchmarks shall be selected from a common Bench Book source group:

- a) Benchmarks with elevations updated per U.S.C.G.S adjustment of 1970, identified with an asterisk (\*).
- b) Benchmarks not adjusted per the 1970 adjusted values (non-asterisked identifiers).

7. Deliverables.

- a) Horizontal and Vertical Control.
  - i. Completed Calibration sheet indicating the monuments used to establish the Basis of Bearings and Vertical Benchmark held to control this survey.
- b) Field Data.
  - i. Complete, Correct CADD file in conformance with City CADD Standards and industry standards.
    - Includes Horizontal control points from ROS 14492 used to define the Basis of Bearings and Vertical control Benchmark(s) to establish elevation.
    - Includes Monument points covering the area of work.
  - ii. Data collector project files.
    - Raw (unedited) data file.
    - Project file.
    - Point comma delimited text file.
- c) Records Research.
  - i. If requested, all public or private records acquired to determine the City's ROW in the project area delivered in digital or hardcopy format with any markups and City Records as acquired.
  - ii. City records may include but are not limited to GIS scope plots, sewer and water sheets, loose leaf survey notes, Tie Point sheets, dedication or vacation drawings, easement drawings, benchmark list, and etc.
- d) Boundary Ties
  - i. All monuments within the survey limits shall be searched and tied if found. Sufficient additional monuments to control all boundaries extending from the survey limits shall be tied (i.e. Block Corners, Points of Curve etc.) to the next available survey monument past the survey limits.
    - All Monuments found shall be described details as to what was found along with identifying number.

### 3-10.6

#### Field Monument Survey and Topographic Utility Survey.

1. The right-of-way monumentation survey data shall be provided to the City.
2. Surveyor shall perform a right-of-way monument survey and existing utility survey (locating feature centers). Surveyor shall also collect ground surface topography over any aerial obscured areas.
3. Unless otherwise specified, the Land Surveyor shall adhere to Section 3 of the Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys (Effective February 23, 2016).

<https://www.nspss.com/page/ALTANSPPStandards>

4. Field Measurements shall be collected in conformance with the local standard of practice.
5. Project Horizontal and Vertical Control.
  - a) The Horizontal and Vertical Control for this project shall be based on the same datum, basis of bearing, calibration and benchmark as used for the Aerial Survey.
  - b) Horizontal Control Shall be based on the CCS83 Zone 6, 1991.35 epoch, U.S. Survey Feet per ROS 14492. It is required to tie into a first order monument per ROS 14492 unless a first order monument no longer exists within a three mile radius.
  - c) Vertical Control shall be based on NGVD29 per benchmarks in the City of San Diego Bench Book. Non 1970 adjusted and 1970 adjusted benchmarks listed with an asterisk (\*) in the City Benchmark book are not to be used together for Vertical Control – common adjustment sets are to be used.
  - d) If adjacent City projects have been found and are included in the research packages, measurements to a minimum of 3 common control or ROW points shall be made for evaluation and consistency between projects. These projects can be used for establishing common horizontal or vertical control, joining or adding to existing data, and/or as an inventory of survey monuments for search purposes.

#### 6. Deliverables.

- a) Horizontal and Vertical Control.
  - i. Completed Calibration sheet indicating the monuments used to establish the Basis of Bearings and Vertical Benchmark held to control this survey. The horizontal and vertical control shall be set by the Surveyor that's issued the first Notice to Proceed.

- b) Field Data.
- i. Data collected as points and break lines to define a proper DTM beyond the identified mapping limits if requested.
  - ii. Include utilities collected on surface as required.
  - iii. Include horizontal control points from ROS 14492 to define the Basis of Bearings and Vertical control Benchmark(s) to establish elevation.
  - iv. Include Monument points covering the area of work.
  - v. Data collector project files.
    - Raw (unedited) data file.
    - Project file.
    - Point data text file in "comma delimited format".
  - vi. CADD File.
    - A digital design file displaying all field work, existing right-of-way monuments, and utility feature data per City CADD standards. The design file shall be complete, correct, and free of duplicate elements.
    - The following data shall be included in the electronic mapping file: Name of Design/Engineering Firm and/or Surveyor doing the project, Company Logo (if available), Name of project, Work order number, Date & Scale.
    - Include right-of-way monument elements.
    - Use appropriate levels and attributes for all elements to meet City of San Diego CADD Standards.
- c) Topography
- i. Create and deliver a complete ASCII coordinate list (.txt/.doc etc.) as a result of the geometry report of the final .ALG file.
  - ii. Use appropriate levels and attributes for all elements to meet City of San Diego CADD Standards.
- d) Records Research.
- i. If requested, all public or private records acquired to assist with right-of-way monument collection.
  - ii. City records may include but are not limited to GIS scope plots, sewer and water sheets, loose leaf survey notes, Tie Point sheets, dedication or vacation drawings, easement drawings, benchmark list, and etc.

- iii. After initial search of City records by the Surveyor, they may request City assistance to search for hard to find records.
- e) Right-of-Way Monument Survey Locations
  - i. All monuments within the survey limits shall be searched and located if found. Sufficient additional monuments to control all boundaries extending from the survey limits shall be located to facilitate LSS ROW Mapping (i.e. block corners, points of curve, and etc.).
    - All found survey monuments shall describe the character and identifying reference marks.
    - City survey notes and City drawings can be provided, as applicable.
  - f) The appropriate City of San Diego cell library (V8 City existing.cel), font resource file (V8 City font.rsc), color table (V8 City color.tbl), line style (V8 City Line style.rsc), level scheme, and seed file parameters are to be used for placement of all elements in the design files, with strict adherence to "Working Units" and seed file "Global Origin". Base map level schemes are attached. A CD containing the most current version of the above seed files, cell libraries and font resource files will be provided, if needed, upon request.

### **3-10.7 Construction Survey/Staking.**

1. Construction staking surveying shall be performed with the standards customarily adhered to by an experienced and competent land surveying firm using the degree of care and skill ordinarily exercised by reputable professionals practicing in the same field of service in the State of California. Where approval by the City is required, it is understood to be general approval only and shall not relieve the Design Firm of their responsibility to comply with all applicable laws, codes, and good consulting practices.
2. Field Measurements shall comply with the local standards of practice. All construction staking with a gradient of less than 1.5% shall be performed by a total station survey instrument. Gradients less than 0.2% shall require a level run prior to construction, and all said services shall be performed by the Surveyor.
3. The following are minimum requirement guidelines for various types of staking:
  - a) Limits of work 50-foot maximum interval.
  - b) Limits of Demolition 50-foot maximum interval.
  - c) Rough grade stakes 50-foot maximum interval.
  - d) Finish grade stakes 50-foot maximum interval.
  - e) Slope staking at 50-foot maximum interval.

- f) Contour staking @ 50-foot maximum interval.
- g) Curb stakes with offset to face of curb, and grade to top of curb with 50-foot maximum interval.
- h) Storm drain at 50-foot maximum interval where grade exceeds 1%.
- i) Sewer lines at 50-foot maximum interval where grade exceeds 1%.
- j) Water lines at 50-foot' maximum interval offset to near curb face (no grades – minimum cover).
- k) Dry utilities at 50-foot maximum interval where grade exceeds 1%.
- l) Construction staking involving horizontal and vertical curves shall be staked at 25-foot maximum intervals, and further densification for deltas on applicable curb returns and pipe joints.
- m) Storm Drain inlet stakes shall be on face of curb produced, and on string line grade.
- n) Walls staked at footing breaks, with station interval of 25-foot maximum intervals.
- o) Buildings – offsets to outside face of wall.
- p) Bridge abutments and bents on opposing sides.

**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 and defense duties set forth in the Contract.

**5-4.1 Policies and Procedures.**

- 1. You shall procure the insurance described below, at your 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 as required by this Contract and at all times thereafter when you are correcting, removing, or replacing Work in accordance with this Contract. Your duties under the Contract, including your indemnity obligations, are not limited to the insurance coverage required by this Contract.
- 4. If you maintain broader coverage or higher limits than the minimums shown below, City requires and shall be entitled to the broader coverage or the higher

limits maintained by you. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to City.

5. Your payment for insurance shall be included in the Contract Price you bid. You are not entitled to any additional payment from the City to cover your insurance, unless the City specifically agrees to payment in writing. Do not begin any Work under this Contract or allow any Subcontractors to begin work, until you have provided, and the City has approved, all required insurance.
6. Policies of insurance shall provide that the City is entitled to 30 days advance written notice of cancellation or non-renewal of the policy or 10 days advance written notice for cancellation due to non-payment of premium. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage and 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 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	\$10,000,000
Products/Completed Operations Aggregate Limit	\$10,000,000
Personal Injury Limit	\$5,000,000
Each Occurrence	\$5,000,000

##### **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.

#### **5-4.2.3 Workers' Compensation Insurance and Employers Liability Insurance.**

1. In accordance with the provisions of California Labor Code section 3700, 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 this requirement.
2. Statutory Limits shall be provided for Workers' Compensation Insurance as required by the state of California, and Employer's Liability Insurance with limits of no less than \$1,000,000 per accident for bodily injury or disease.
3. By signing and returning the Contract, you certify that you are aware of the provisions of California's Workers' Compensation laws, including Labor Code section 3700, which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance, and that you will comply with these provisions before commencing the Work..

#### **5-4.2.8 Architects and Engineers Professional Insurance (Errors and Omissions Insurance).**

1. For Contracts with required engineering services, including Design-Build and preparation of engineered Traffic Control Plans (TCP) by you, you shall keep or require all of your employees and Subcontractors, who provide professional engineering services under Contract, to provide to the City proof of Professional Liability coverage with a limit of no less than **\$1,000,000** per claim and **\$2,000,000** aggregate per policy period of one year.
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 three years after completion of the Project or termination of the 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 here.



**5-4.3 Rating Requirements.** Except for the State Compensation Insurance Fund, all insurance required by this Contract 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 of California, 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 of California 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 in this Contract.

**5-4.4 Evidence of Insurance.** You shall furnish the City with original Certificates of Insurance, including all required amendatory endorsements (or copies of the applicable policy language effecting coverage required by this clause), prior to your commencement of Work under this Contract. In addition, The City reserves the right to require complete, certified copies of all required insurance policies, including endorsements, required by these specifications, at any time.

**5-4.5 Policy Endorsements.**

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

**5-4.5.1.1 Additional Insured.** To the fullest extent permitted by law and consistent with the limiting provisions set forth at California Civil Code section 2782, California Insurance Code section 11580.04, and any applicable successor statutes limiting indemnification of public agencies that bind the City, the policy or policies shall be endorsed to include as an Additional Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to 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.

**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 Workers' Compensation Insurance and Employers Liability Insurance.**

**5-4.5.2.1 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.

**5-4.6 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. The City may require you to purchase coverage with a lower retention or provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention. The policy language shall provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or City.

**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, in writing, 30 days prior to any material change to the policies of insurance provided under this Contract. This written notice is in addition to the requirements of paragraph 6 of Section 5-4.1.

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

**SECTION 6 – PROSECUTION AND PROGRESS OF THE WORK**

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

3. Refer to the Sample City Invoice materials in **Exhibit S – Sample City Invoice** and use the format shown.

**ADD:**

**6-6.1.1 Environmental Document.**

1. The City of San Diego has prepared a **Notice of Exemption** for **728 PACIFIC BEACH DRIVE PUMP STATION G EMERGENCY BYPASS (Pump Station G Emergency Bypass Pump Setup at 728 Pacific Beach Drive)**,

Project (IO) No. **21005364** as referenced in the Contract Exhibit. You shall comply with all requirements of the **Notice of Exemption** as set forth in **Exhibit M**.

2. Compliance with the City's environmental document shall be included in the Contract Price, unless separate bid items have been provided.

#### **SECTION 7 – MEASUREMENT AND PAYMENT**

**7-3.11 Compensation Adjustments for Price Index Fluctuations.** To the "WHITEBOOK" ADD the following:

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

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

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

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

**EXHIBIT M**

**NOTICE OF EXEMPTION**

**NOTICE OF EXEMPTION**

(Check one or both)

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

FROM: City of San Diego  
Engineering & Capital Projects 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 Name:** 728 Pacific Beach Drive Pump Station G Emergency Bypass

**IO#:** 21005364

**Project Location-Specific:** 728 Pacific Beach Drive within the Mission Beach Community Planning Area (Council District 2).

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

**Description of Nature and Purpose of the Project:** A recent inspection of two existing storm water pumps within an existing pump station structure has revealed the complete failure of one pump and significant deterioration of the second pump. This emergency project will install a temporary storm water pump and bypass system adjacent the existing pump station structure in order to support required pump station operations and prevent flooding impacts to adjacent properties and surrounding community during rain events. The temporary pump and bypass system will remain until both existing pumps are repaired, or a new capital improvement project installs new permanent replacement pumps. All bypass equipment will be fenced off for security purposes within the existing adjacent bollard area. The proposed work is the minimum necessary to address the emergency and protect public health and safety.

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

**Name of Person or Agency Carrying Out Project:** City of San Diego  
Engineering & Capital Projects Department  
Contact: Jerry Jakubauskas; Phone: (619) 533-3755  
525 B Street, Suite 750 (MS 908A), San Diego, CA 92101

**Exempt Status:** (CHECK ONE)

- Ministerial (Sec. 21080(b)(1); 15268);
- Declared Emergency (Sec. 21080(b)(3); 15269(a));
- Emergency Project: CEQA Statute Sections 21080(b)(2) and (4) and CEQA Guidelines Sections 15269(b) and (c) (Emergency Projects)
- Categorical Exemption:
- Statutory Exemption:

**Reasons why project is exempt:** The City of San Diego conducted an environmental review that determined the project meets the definition of an "Emergency" as defined in CEQA Guidelines Section 15359 (Emergency) as the project involves a sudden, unexpected occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to, life, health, property, or essential public services. This emergency repair is required in order to protect public health, safety and property, and is supported by the expert opinion of the City Engineer. Thus, this emergency activity is statutorily exempt from CEQA pursuant to CEQA Statute Section 21080(b)(2) and CEQA Guidelines Section 15269(b) (Emergency Projects) which exempts

emergency repairs to publicly or privately owned service facilities necessary to maintain service essential to public health, safety or welfare. This activity is also statutorily exempt from CEQA pursuant to CEQA Statute Section 21080(b)(4) and CEQA Guidelines Section 15269(c) (Emergency Projects) which exempts specific actions necessary to prevent or mitigate an emergency.

**Lead Agency Contact Person:** Jerry Jakubauskas

**Telephone:** (619) 533-3755

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*

Carrie Purcell, Deputy Director

November 2, 2022

Date

Check One:

Signed by Lead Agency

Date Received for Filing with County Clerk or OPR:

Signed by Applicant

**EXHIBIT N**

**RESERVED**

**EXHIBIT O**

**CONTRACTOR'S COMPENSATION RATE SCHEDULE**



## **EXHIBIT O**

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

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

These rates are being specified as the Contractor's standard established rates for calculating labor costs without allowance for overhead and profits. For markup provisions and allowable charges refer to 7-3.7, "Agreed Prices".



**City of San Diego Emergency Project San Diego Station "G"**

**COMPENSATION RATE SCHEDULE**

<b>ORION CONSTRUCTION</b>			
<b>Title/Classification</b>	<b>Standard Rate (\$)/Hour</b>	<b>Overtime Rate (\$)/Hour</b>	<b>Double-time Rate (\$)/Hour</b>
Superintendent	151.00	227.00	303.00
Foreman	124.00	186.00	249.00
Operator Group 8	117.00	175.00	234.00
Group 1 Oiler/Grade Checker	106.00	159.00	212.00
Truck Driver	95.00	143.00	190.00
Laborer/Pipelayer	93.00	140.00	186.00
Carpenter	96.00	144.00	193.00
Mechanic	98.00	147.00	197.00
Apprentice Operator	96.00	144.00	193.00
Apprentice Laborer	51.00	76.00	102.00
Project Manager	189.00	0.00	0.00
Project Staff Engineer	135.00	0.00	0.00
Engineering Project Director	238.00	0.00	0.00
Engineer (P.E.) QA/QC	205.00	0.00	0.00
PM/Design Engineer	205.00	0.00	0.00
Sr. CADD Tech	135.00	0.00	0.00
Admin/Office	92.00	0.00	0.00
Environmental Engineer/SWPPP Coordinator	189.00	0.00	0.00

**Travel Time:** All travel to and from yards, material pick up, and all deliveries applicable. Customer will be advised if additional travel time is applicable

**Overtime Rates:** All hours outside regularly constituted shift shall be time and one half. Saturday is time and one half. Sundays and holidays shall be paid at double time. Operators, Laborers, Teamsters, Cement Masons, Electricians - first four (4) hours outside regular shift and first twelve (12) hours on Saturday is time and one-half, all additional hours at double time including holidays.

**Minimums** - Four (4) hour minimum for labor and equipment, each additional hour to be billed at individual hour basis.

**Markup:** Markup will be billed per Greenbook and Whitebook specifications

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State of California  
California State Transportation Agency

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Department of Transportation  
Division of Construction

# Labor Surcharge and Equipment Rental Rates

(Cost of Equipment Ownership)



Effective April 1, 2022 through March 31, 2023



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FOR DOUBLE-SIDED PRINTING

**USER'S GUIDE  
FOR LABOR SURCHARGE AND EQUIPMENT RENTAL RATES  
April 1, 2022 - March 31, 2023**

Equipment Rental Rates are available on the Internet at:

**<http://www.dot.ca.gov/programs/construction/equipment-rental-rates-and-labor-surcharge>**

Miscellaneous Equipment Rental Rates are available on the Internet at:

**<https://dot.ca.gov/programs/construction/miscellaneous-equipment-rental-rate-information>**

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, 2022 book are the result of: 1) fuel costs increased; 2) interest rates increased; 3) Producers' Price Index increased; 4) increase 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, 2022 book are the result of some changes in worker's compensation rates. The rates were derived from using the pure premium rate approved by the Insurance Commissioner effective September 1, 2021 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 **10 percent for regular time (RT)** and **10 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.....	10	10
Drilling .....	12	11
Fence & Guardrail Construction .....	10	10
Erection of structural metal for metal bridges, excluding sign bridge .....	13	12
Landscape Gardener .....	10	10
Mobil Crane & Hoist Service.....	12	11
Painting Steel Structures or Bridges .....	13	12
Pile Driving, not including drilled, cast-in-place concrete piles .....	16	14
Sign Erection or Repair .....	13	12
Wrecking & Demolition .....	12	11

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, 2022 THROUGH MARCH 31, 2023

## 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>	\$4.42
Clam action Over 1 CY to 2 CY	<b>C2</b>	\$7.77
Clam action Over 2 CY to 3.5 CY	<b>C3</b>	\$11.25
Clam action Over 3.5 CY to 5 CY	<b>C4</b>	\$16.03
Clam action bucket Over 5 CY	<b>C5</b>	\$22.17
Ripper on No. 1 models	<b>R1</b>	\$2.66
Ripper on No. 2 models	<b>R2</b>	\$3.48
Ripper on No. 3 models	<b>R3</b>	\$5.80
Ripper on No. 4 models	<b>R4</b>	\$6.56
Ripper on No. 5 models	<b>R5</b>	\$10.76
Ripper on No. 6 models	<b>R6</b>	\$17.02
Ripper on No. 7 models	<b>R7</b>	\$19.74
Ripper on No. 8 models	<b>R8</b>	\$32.89
Winch on No. 1 models	<b>S1</b>	\$3.16
Winch on No. 2 models	<b>S2</b>	\$4.71
Winch on No. 3 models	<b>S3</b>	\$6.23
Winch on No. 4 models	<b>S4</b>	\$8.00
Winch on No. 5 models	<b>S5</b>	\$14.01
Lift gate	<b>TG</b>	\$0.91
Pump, water truck only	<b>TP</b>	\$6.25
Winch, truck	<b>TW</b>	\$0.33
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>	\$0.19

## AIR COMPRESSOR

[ AIRCP ]

**DELAY FACTOR = 0.14**

**OVERTIME FACTOR = 0.87**

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>	\$5.15
19 (40)	76 (160)	<b>004-016</b>	\$19.16
76 (160)	118 (250)	<b>016-025</b>	\$20.80
118 (250)	212 (450)	<b>025-045</b>	\$36.28
212 (450)	354 (750)	<b>045-075</b>	\$59.91
354 (750)	566 (1200)	<b>075-120</b>	\$87.63
566 (1200)	708 (1500)	<b>120-150</b>	\$114.08

## AIR DRILLS, CRAWLER

[ AIRDL ]

**DELAY FACTOR = 0.49**

**OVERTIME FACTOR = 0.57**

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>	\$27.37
100 (4)	& Over	<b>5</b>	\$28.02

## 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>	\$0.46
4.5 (10)	9.1 (20)	<b>10-20</b>	\$0.50
9.1 (20)	13.6 (30)	<b>20-30</b>	\$0.90
13.6 (30)	18.1 (40)	<b>30-40</b>	\$1.05
18.1 (40)	27.2 (60)	<b>40-60</b>	\$1.14
27.2 (60)	& Over	<b>60</b>	\$1.61

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

**DELAY FACTOR = 0.11 OVERTIME FACTOR = 0.91**  
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>	\$76.34
No. 2	<b>4052</b>	\$60.92
Nos. 43, 44	<b>4054</b>	\$80.21

**ASPHALT PAVING COMPANY [ APCO ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
E-1	<b>4000</b>	\$102.45
E-2, E3	<b>4002</b>	\$183.43

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
RW-35 / 38	<b>4075</b>	\$71.28
RW-85	<b>4077</b>	\$38.08
RW-95	<b>4079</b>	\$61.00
RW-100	<b>4081</b>	\$103.94
RW-195D	<b>4083</b>	\$143.38

**DELTA [ DLTA ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
DC-1	<b>4095</b>	\$143.97

**ASPHALT PAVERS [ ASPAV ]**

**DELAY FACTOR = 0.17 OVERTIME FACTOR = 0.87**  
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>	\$89.67
BG 225	<b>0810</b>	\$97.07
BG 240	<b>0815</b>	\$105.75
BG 245	<b>0820</b>	\$115.45
BG 260	<b>0825</b>	\$136.57
BG 260B	<b>0826</b>	\$174.83
BG 265	<b>0830</b>	\$153.80
RT 435, 4wd	<b>0905</b>	\$113.75
RT 445, 4wd	<b>0925</b>	\$110.09
RT 455, 4wd	<b>0945</b>	\$108.17
RT 455, 4wd, 10-20' screed	<b>0955</b>	\$111.88
RT 465, 4wd	<b>0965</b>	\$143.46
SA 125	<b>1419E</b>	\$85.79
SB 131	<b>1420</b>	\$106.16
SB 140	<b>1425</b>	\$131.65
SA 141	<b>1430</b>	\$90.80
SA 145	<b>1432</b>	\$113.05
SA 150	<b>1435</b>	\$143.11

SB 170 **1440** \$145.81

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
PF-22	<b>1490</b>	\$40.33
PF-35	<b>1550</b>	\$71.94
PF-115	<b>1750</b>	\$113.36
PF-120H	<b>2010</b>	\$104.23
PF-171	<b>2090</b>	\$157.65
PF-180	<b>2100</b>	\$70.69
PF-180H	<b>2204</b>	\$165.70
PF-200	<b>2250</b>	\$165.25
PF-200, 18' screed	<b>2252</b>	\$168.12
PF-220	<b>2300</b>	\$168.21
PF-400A	<b>2350</b>	\$146.09
PF-500	<b>2404</b>	\$182.43
PF-500, 18' screed	<b>2406</b>	\$185.51
PF-510, 18' screed	<b>2407</b>	\$192.05
PF-3172, 18' screed	<b>2408</b>	\$158.51
PF-3200	<b>2410</b>	\$213.69
PF-5510	<b>2415</b>	\$223.99

**CATERPILLAR [ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
AP-200	<b>2420</b>	\$45.04
AP-800	<b>2430</b>	\$114.17
AP-1050	<b>2431</b>	\$177.88
AP-1000	<b>2435</b>	\$174.54
AP-1000 4wd	<b>2436</b>	\$180.49
AP-1055B	<b>2438</b>	\$223.23
AP-1055D	<b>2438D</b>	\$281.23
AP-1200	<b>2440</b>	\$145.95

**CEDAR RAPIDS [ CEDR ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BSF-2H	<b>2550</b>	\$95.03
BSF-3R	<b>2600</b>	\$104.59
CR-351	<b>2668A</b>	\$149.34
CR-351 4wd	<b>2668B</b>	\$154.08
CR-361R (RUBBER TRACK)	<b>2668R</b>	\$183.15
CR-431	<b>2669</b>	\$125.90
CR-551	<b>2670</b>	\$201.23
CR-461	<b>2672</b>	\$199.12
CR-561	<b>2674</b>	\$211.12

**LAYTON [ LYTN ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
F-525	<b>2680</b>	\$22.67
D-550	<b>2682</b>	\$25.15
H-500B	<b>2684</b>	\$7.10

**ASPHALT WINDROW PICKUP MACHINE [ ASPWP ]****DELAY FACTOR = 0.08 OVERTIME FACTOR = 0.94**

Includes all attachments and accessories.

<b>ATHEY [ ATHY ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
7-11	<b>5000</b>	\$94.01
<b>BARBER-GREENE [ B-G ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
BG-610H	<b>5100</b>	\$65.39
<b>CATERPILLAR [ CAT ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
WE-601B	<b>5200</b>	\$73.02
<b>CLARK'S WELDING COMPANY [ CLAR ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
500	<b>5300</b>	\$55.65
601	<b>5304</b>	\$51.27
Lincoln 660	<b>5305</b>	\$98.70
<b>C.M.I. [ CMI ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
851	<b>5405</b>	\$92.30

**AUGERS, CRAWLER MOUNTED [ AUGCL ]****DELAY FACTOR = 0.28 OVERTIME FACTOR = 0.75**

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>	\$116.97
<b>TEXOMA [ TXMA ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
TAURUS	<b>2010</b>	\$241.17
700CL	<b>2100</b>	\$136.98
<b>WATSON [ WATS ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
2000CM	<b>2500</b>	\$106.12
2500CM	<b>2505</b>	\$163.45
3000CM	<b>2510</b>	\$185.43
3100CM	<b>2515</b>	\$192.38

**AUGERS, HORIZONTAL [ AUGHZ ]****DELAY FACTOR = 0.27 OVERTIME FACTOR = 0.76**

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>	\$109.43
420 series 1250	<b>5002</b>	\$112.27
<b>AMERICAN AUGER [ AMAU ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
36-350	<b>5014</b>	\$29.91
<b>BORZALL [ BORZ ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
2300-10	<b>5040</b>	\$10.26
4265-10	<b>5042</b>	\$14.29
<b>DITCH WITCH [ D-W ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
2510	<b>5040</b>	\$46.66

**AUGERS, TRUCK MOUNTED [ AUGTK ]****DELAY FACTOR = 0.22 OVERTIME FACTOR = 0.81**

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>	\$178.45
LDH-100	<b>5005</b>	\$150.07
LLDH-80	<b>5010</b>	\$190.56
LLDH-120	<b>5015</b>	\$203.35
<b>CALWELD [ CALW ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
150-A	<b>5050</b>	\$95.35
200	<b>5052</b>	\$114.07
4500LH	<b>5054</b>	\$190.07
<b>HUGHES [ HUGH ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>
EZ 112	<b>5070</b>	\$63.57
EZ 120	<b>5071</b>	\$71.76
LDH-100	<b>5072</b>	\$116.53
LDH-80	<b>5074</b>	\$115.03
LLDH-120	<b>5076</b>	\$169.03
LLDH-80	<b>5078</b>	\$156.62

<b>P.D.E.</b>	<b>[ PDE ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
M -100	<b>5084</b>	\$45.62	
M-400 with hammer	<b>5085</b>	\$34.82	

<b>TEXOMA</b>	<b>[ TXMA ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
Economatic 115	<b>5087</b>	\$95.69	
Super Economatic	<b>5089</b>	\$96.92	
80	<b>5090</b>	\$135.56	
270	<b>5093</b>	\$96.39	
330	<b>5095</b>	\$101.12	
330 with hammer	<b>5095B</b>	\$112.67	
500 with hammer	<b>5096B</b>	\$114.48	
600	<b>5097</b>	\$120.07	
700	<b>5099</b>	\$182.55	

<b>WATSON</b>	<b>[ WATS ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
1000	<b>6010</b>	\$82.45	
2000	<b>6012</b>	\$147.78	
3000	<b>6014</b>	\$179.44	

<b>BITUMINOUS DISTRIBUTORS [ BITDT ]</b>
--

**DELAY FACTOR = 0.14      OVERTIME FACTOR = 0.88**  
 Includes all equipment for handling bituminous materials under pressure.  
 Includes pumps, spray bars and other attachments and accessories.

<b>TRAILER MOUNTED</b>	<b>[ TLMD ]</b>		
Does not include towing unit. Capacity rated in liters (U.S. gallons).			
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
	1136 (300)	<b>0-300</b>	\$7.26

<b>TRUCK MOUNTED</b>	<b>[ TRMD ]</b>		
Including truck. Capacity rated in liters (U.S. gallons).			
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	3028 (800)	<b>00-08</b>	\$69.92
3028 (800)	5299 (1400)	<b>08-14</b>	\$87.99
5299 (1400)	6831 (1800)	<b>14-18</b>	\$90.09
6831 (1800)	11355 (3000)	<b>18-30</b>	\$92.04
11355 (3000)	15140 (4000)	<b>30-40</b>	\$96.17

<b>BROOMS &amp; SWEEPING EQUIPMENT [ BRMSW ]</b>
--

**DELAY FACTOR = 0.15      OVERTIME FACTOR = 0.86**  
 Includes all attachments and accessories with brooms of any type. Includes broom wear.

<b>BROOMS - MOUNTED &amp; TOWED</b>	<b>[ MTTD ]</b>		
Includes traction, PTO or engine driven.			
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
ALL	<b>ALL</b>	\$30.43	

<b>BROOMS - SELF PROPELLED</b>	<b>[ SFPR ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
ALL	<b>ALL</b>	\$44.49	

<b>SWEEPERS - SELF PROPELLED,</b>	<b>[ SWSP ]</b>		
<b>PICK UP</b>			
Rated in accordance with hopper size in cubic meters (cubic yards).			
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	2.3 (3.0)	<b>0-3</b>	\$102.80
2.3 (3.0)	4.6 (6.0)	<b>3-6</b>	\$137.00
4.6 (6.0)	6.9 (9.0)	<b>6-9</b>	\$159.83

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

**DELAY FACTOR = 0.08      OVERTIME FACTOR = 0.93**  
 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>	\$30.47
230 (9)	300 (12)	<b>09-12</b>	\$47.44
300 (12)	405 (16)	<b>12-16</b>	\$46.80

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

**DELAY FACTOR = 0.20      OVERTIME FACTOR = 0.81**  
 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>	\$4.07
113 (250)	& Higher	<b>250</b>	\$9.89

**CONCRETE MIXERS**

[ CONMX ]

**DELAY FACTOR = 0.12****OVERTIME FACTOR = 0.89****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>	\$2.20
0.10 (3.5)	0.17 (6.0)	<b>03.5-6</b>	\$3.21
0.17 (6.0)	0.31 (11)	<b>06-11</b>	\$4.13
0.31 (11)	0.45 (16)	<b>11-16</b>	\$5.86

**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>	\$152.66
7.6 (10)	9.2 (12)	<b>10-12</b>	\$152.44

**CONCRETE PUMPS**

[ CONPM ]

**DELAY FACTOR = 0.17****OVERTIME FACTOR = 0.86**

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

**ELBA**

[ ELBA ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
K-8020	<b>1000</b>	\$92.50

**MAYCO**

[ MACO ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
C-30HD	<b>1020</b>	\$17.80
LST-30/60S	<b>1024</b>	\$30.23

**SCHWING**

[ SHWG ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BPA-1000	<b>1050</b>	\$35.32
WP-1000X	<b>1052</b>	\$48.28
WP-1250X	<b>1054</b>	\$62.55
900-1200 w/28 m boom	<b>1055</b>	\$91.08
900-1200 w/32 m boom	<b>1057</b>	\$106.88
BPL 1200 w/36 m boom	<b>1058</b>	\$113.54

**THOMSEN**

[ THOM ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
A-3.75 w/ mixer	<b>1070</b>	\$23.71
	<b>1072</b>	\$21.04
11 pump w/28 m boom	<b>1078</b>	\$112.26
12 pump w/32 m boom	<b>1082</b>	\$119.44
14 pump w/36 m boom	<b>1084</b>	\$163.52

**CONCRETE SLIPFORM PAVERS**

[ CONSF ]

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

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

**C.M.I.**

[ CMI ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
SF-250	<b>2002</b>	\$160.37
SF-350 series 2	<b>2004</b>	\$256.27
SF-550	<b>2006</b>	\$342.81

**GOMACO**

[ GOMA ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
GP-2000	<b>2020</b>	\$162.66
GP-2500	<b>2022</b>	\$182.50
GP-3500	<b>2024</b>	\$259.45

**CONCRETE VIBRATORS**

[ CONVB ]

**DELAY FACTOR = 0.33****OVERTIME FACTOR = 0.67**

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

**CONCRETE VIBRATORS**

[ CVIB ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Each Vibrating Head	<b>EVHD</b>	\$1.13

**CURB EXTRUSION MACHINES**

[ CRBEX ]

**DELAY FACTOR = 0.23****OVERTIME FACTOR = 0.82**

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

**CURB EXTRUSION MACHINE**

[ CEM ]

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	460 (18)	<b>0-18</b>	\$33.95
460 (18)	& Over	<b>18 PLUS</b>	\$98.01

**CONCRETE BARRIER SLIPFORM PAVERS**

[ CRBSF ]

**DELAY FACTOR = 0.20****OVERTIME FACTOR = 0.85**

Includes all attachments, accessories and barrier or curb molds.

**C.M.I.**

[ CMI ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
SF-175	<b>3000</b>	\$118.51

**CURBMASTER**

[ CURB ]

<u>Model</u>	<u>Code</u>	<u>Rate</u>
CMT-800	<b>3020</b>	\$73.43

**GOMACO [ GOMA ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
GT-6000-(78&90)	<b>3040</b>	\$82.32
COMMANDER II	<b>3045</b>	\$93.89
COMMANDER III	<b>3050</b>	\$129.88

**MILLER FORMLESS [ MILL ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
M-7500	<b>3063</b>	\$96.51
M-8100	<b>3065</b>	\$135.87
M-8800	<b>3067</b>	\$170.89

**ELECTRIC GENERATORS & LIGHT PLANTS [ ELGEN ]**

**DELAY FACTOR = 0.13 OVERTIME FACTOR = 0.88**  
 Rates are for gas or diesel power and alternating or direct current.

**GENERATOR [ GEN ]**

Rated in accordance with Mfr's output in kilowatts.

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	1	<b>000-001</b>	\$0.87
1	3	<b>001-003</b>	\$2.02
3	7.5	<b>003-008</b>	\$4.17
7.5	15	<b>008-015</b>	\$9.34
15	25	<b>015-025</b>	\$14.64
25	50	<b>025-050</b>	\$14.85
50	100	<b>050-100</b>	\$26.62
100	200	<b>100-200</b>	\$53.58
200	300	<b>200-300</b>	\$90.99
300	400	<b>300-400</b>	\$124.14
400	500	<b>400-500</b>	\$155.61

**LIGHTS [ LITE ]**

Includes trailer, pole and generator.

<u>Model</u>	<u>Code</u>	<u>Rate</u>
2 Light Set	<b>2 LIGHT</b>	\$4.27
4 Light Set	<b>4 LIGHT</b>	\$8.72

**ELECTRIC POWERED HAND TOOLS [ ELTOL ]**

**DELAY FACTOR = 0.62 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 ]**

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
450	600	<b>045-060</b>	\$0.32
600	800	<b>060-080</b>	\$0.43
800	1000	<b>080-100</b>	\$0.54

**FORK LIFT TRUCKS [ FKLFT ]**

**DELAY FACTOR = 0.22 OVERTIME FACTOR = 0.79**

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

**FORK LIFT TRUCKS [ FLT ]**

<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
454 (1000)	1814 (4000)	<b>010-040</b>	\$29.96
1814 (4000)	2722 (6000)	<b>040-060</b>	\$39.89
2722 (6000)	3629 (8000)	<b>060-080</b>	\$45.00
3629 (8000)	5443 (12000)	<b>080-120</b>	\$62.20
5443 (12000)	7258 (16000)	<b>120-160</b>	\$65.58
7258 (16000)	9072 (20000)	<b>160-200</b>	\$76.89
9072 (20000)	11340 (25000)	<b>200-250</b>	\$76.26
11340 (25000)	13608 (30000)	<b>250-300</b>	\$84.05
13608 (30000)	18144 (40000)	<b>300-400</b>	\$107.37
18144 (40000)	22680 (50000)	<b>400-500</b>	\$129.20
22680 (50000)	34020 (75000)	<b>500-750</b>	\$176.48

**GRADERS [ GRADR ]**

**DELAY FACTOR = 0.12 OVERTIME FACTOR = 0.90**

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

**BLADE-MOR [ BMOR ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
727	<b>2173</b>	\$26.09
747	<b>2178</b>	\$37.53

**CATERPILLAR [ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
120G 87V serial	<b>2685</b>	\$70.17
130G 74V serial	<b>2695</b>	\$77.68
12E 99E serial	<b>2710</b>	\$49.84
12F 73G serial	<b>2768</b>	\$75.53
12F 13K serial	<b>2826</b>	\$58.20
12F 89H serial	<b>2884</b>	\$58.68
12G 61M serial	<b>2890</b>	\$79.40
12H	<b>2895</b>	\$91.04
14E 72G serial	<b>3174</b>	\$77.74
14G	<b>3180</b>	\$118.30
14H	<b>3185</b>	\$130.46
140 14U serial	<b>3250</b>	\$78.74
140G 72V serial	<b>3260</b>	\$85.95
140H	<b>3265</b>	\$91.79
143H	<b>3267</b>	\$102.58
16 49G serial	<b>3290</b>	\$101.42
16 49G800 serial	<b>3348</b>	\$148.45
16 G93U serial	<b>3360</b>	\$164.54
16H	<b>3380</b>	\$174.18



160H	3385	\$108.00
163H	3390	\$113.49

**JOHN DEERE [ DEER ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
JD-570A	3890	\$46.29
JD-570B	3892	\$53.63
JD-670	3900	\$60.35
JD-670A	3905	\$66.19
JD-670CH	3907	\$85.74
JD-770	3910	\$68.59
JD-770A, 770A-H	3915	\$80.23
JD-770B	3916	\$87.28
JD-772CH	3930	\$104.27

**GALION [ GALN ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
A-400E	4940	\$64.85
T-400A	4980	\$62.27
T-500C	5150	\$72.21
T-500L	5204	\$71.87
T-500M	5210	\$74.24

**KOMATSU [ KOMA ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
GD 505A-2	8980	\$67.76
GD 515A-1	8986	\$70.19
GD 605A-2	9000	\$74.81
GD 615A-1	9005	\$81.33
GD 625A-1C	9007	\$104.69
GD 655A-2	9010	\$83.18

<b>HAMMERS, DEMOLITION &amp; PILE [ HAMMR ]</b>
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**DELAY FACTOR = 0.23      OVERTIME FACTOR = 0.80**

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

**ABI [ ABI ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
HVR-60	0100	\$38.13

**AMERICAN PILE DRIVING [ APE ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
150	0010	\$162.92
180	0050	\$224.66
200/500	0060	\$250.38
300 VIBRO	0075	\$278.67
400B VIBRO	0085	\$447.04

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
800	0300	\$56.78
HYRAM 720	0310	\$6.30
HYRAM 725	0320	\$12.12
HYRAM 730	0330	\$14.56
HYRAM 740	0340	\$20.81
HYRAM 750	0350	\$22.97
HYRAM 77	0360	\$9.42
HYRAM 770	0370	\$22.85
HYRAM 780	0380	\$37.60
HYRAM 790	0390	\$48.69
HYRAM 88	0400	\$15.82

**DELMAG [ DELM ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
D-12	0500	\$24.53
D-16	0510	\$36.24
D-22	0520	\$57.63
D-30	0530	\$42.71
D-30-32	0540	\$62.62
D-36-32	0560	\$81.39
D46-32	0570	\$96.33
D62-22	0580	\$156.93
D100-13	0590	\$248.43

**FOSTER [ FOST ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
1700	0600	\$138.31
4030	0630	\$193.84
FNV-1800	0660	\$115.20
FNV-4150	0693	\$248.28

**HYDRAULIC POWER SYS [ HPSI ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
150	0420	\$97.34
260	0430	\$154.13
300	0440	\$185.03

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
44-50	0450	\$233.46
216	0460	\$83.87
416L	0470	\$139.45
812	0480	\$219.34

**KENT [ KENT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
KHB10G	0700	\$19.68
KHB 15G	0710	\$30.52
KHB 30G	0750	\$31.09
KHB 40G	0760	\$53.96

<b>NPK</b>	[ NPK ]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
4XE	0795	\$17.12
6XA	0800	\$13.57
H-10XB	0810	\$37.15
H-12X	0815	\$37.74
H-16X	0820	\$32.76
H-20X	0840	\$36.24
H4X,HXA	0860	\$11.57
H7X	0880	\$14.49

<b>OKADA</b>	[ OKAD ]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
UB-5	0900	\$8.08
UB-8	0950	\$15.92

<b>RAMMER</b>	[ RAMR ]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
S-84	1000	\$32.39
S-86	1050	\$35.04

<b>STANLEY</b>	[ STAN ]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
MB250	1100	\$6.41
MB2900	1120	\$24.51
MB4900	1140	\$43.45
MB550	1160	\$10.11
MB800	1180	\$14.96

<b>TELEDYNE</b>	[ TELD ]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
950X	1190	\$35.72
TB1025	1195	\$39.35
TB1425X	1200	\$35.68
TB2225X	1220	\$66.65
TB425	1240	\$14.55
TB825X	1260	\$25.01

<b>TRAMAC</b>	[ TRMC ]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
BRH1100	1300	\$38.26
BRH125	1310	\$11.89
BRH250	1320	\$13.20
BRH400	1330	\$12.53
BRH620	1340	\$25.38
BRH750	1350	\$22.48
BRV950	1360	\$23.66

<b>TUNKER</b>	[ TUNK ]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
40.01	1400	\$173.38
40.05	1450	\$173.38
60.05	1460	\$153.15

<b>VULCAN</b>	[ VULC ]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
1	1500	\$26.82
010	1520	\$38.79
100C	1540	\$40.95
2300	1560	\$149.10
80C	1580	\$31.60

**HYDRAULIC CRANES & EXCAVATORS, [ HCECL ]  
CRAWLER MOUNTED**

**DELAY FACTOR = 0.18      OVERTIME FACTOR = 0.84**  
Includes all attachments and accessories required for lifting or digging.  
Pavement breaker or compactor attachments are not included.

<b>BANTAM</b>	[ BANT ]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
C 266	0680	\$85.42
C 366	0690	\$98.81
C 744	1075	\$64.31

<b>CASE</b>	[ CASE ]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
9030B	0100B	\$96.84
9040	0110	\$97.98
9060B	0120B	\$203.47
40E E-Boom	1600	\$78.43
40E Y-Boom	1601	\$78.81
50E	1602	\$99.30
125B	1602H	\$79.95
170C	1602N	\$111.73
220B	1602R	\$142.68
880B Y-Boom	1609	\$56.02
980B	1615	\$86.75
1080	1615E	\$76.26
1080B	1615J	\$77.81
1280	1616	\$104.01
1280B	1616E	\$98.14

<b>CATERPILLAR</b>	[ CAT ]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>
304 CR	0200	\$31.49
305C CR	0250	\$43.02
308E2 CR SB	0270	\$48.94
308DCR	0271	\$42.91
312	0300	\$50.77
312C	0300C	\$61.49

312CL	<b>0300CL</b>	\$61.67	EL 200B	<b>1654E</b>	\$74.78
314CL CR	<b>0302CLR</b>	\$62.62	E 240	<b>1655</b>	\$88.79
315L	<b>0305</b>	\$61.38	EL 240	<b>1656</b>	\$90.20
320	<b>0310</b>	\$80.76	E 300	<b>1657</b>	\$111.42
320BL	<b>0312</b>	\$84.93	E 300B	<b>1657B</b>	\$123.62
320C	<b>0312C</b>	\$95.97	EL 300	<b>1658</b>	\$113.24
320CL	<b>0312CL</b>	\$108.10	EL 300B	<b>1658B</b>	\$125.58
320L	<b>0315</b>	\$82.14	<b>JOHN DEERE</b>	<b>[ DEER ]</b>	
321C LCR	<b>0320R</b>	\$117.15	<u>Model</u>	<u>Code</u>	<u>Rate</u>
321D LCR	<b>0321R</b>	\$115.32	225D LC	<b>1575D</b>	\$109.49
322L	<b>0325</b>	\$100.63	330C LC	<b>1600C</b>	\$155.86
325	<b>0330</b>	\$106.56	450LC	<b>1645</b>	\$190.25
325BL	<b>0335</b>	\$124.48	490	<b>1660</b>	\$42.52
325L	<b>0340</b>	\$111.03	490E	<b>1660E</b>	\$53.69
328D LCR	<b>0343DR</b>	\$143.34	690A	<b>1685</b>	\$60.06
330BL	<b>0345</b>	\$152.73	690B	<b>1695</b>	\$72.89
330CL	<b>0345CL</b>	\$165.92	690C	<b>1697</b>	\$67.32
330D L	<b>0345DL</b>	\$196.59	690D	<b>1697D</b>	\$70.29
330L	<b>0350</b>	\$140.44	690E LC	<b>1697ELC</b>	\$80.58
336EL	<b>0351E</b>	\$187.52	790	<b>1698</b>	\$84.72
336F	<b>0351F</b>	\$187.52	790D	<b>1698D</b>	\$89.95
345BL	<b>0355</b>	\$196.50	790E LC	<b>1698ELC</b>	\$98.45
350L	<b>0360</b>	\$208.05	792	<b>1699</b>	\$100.15
375L	<b>0365</b>	\$328.81	890	<b>1700</b>	\$135.51
205	<b>1617</b>	\$34.64	890A	<b>1705</b>	\$123.29
211	<b>1617E</b>	\$51.80	892D LC	<b>1708</b>	\$114.58
213	<b>1617H</b>	\$56.96	990	<b>1720</b>	\$147.20
215	<b>1618</b>	\$57.44	992D LC	<b>1722</b>	\$165.65
215B LC	<b>1619E</b>	\$64.55	30	<b>1725</b>	\$20.39
215C	<b>1619F</b>	\$71.08	50	<b>1730</b>	\$32.57
215D	<b>1619G</b>	\$78.79	70	<b>1735</b>	\$29.79
225	<b>1620</b>	\$82.10	200LC	<b>1745</b>	\$92.16
225LC	<b>1621</b>	\$82.60	<b>DROTT</b>	<b>[ DROT ]</b>	
225D LC	<b>1622</b>	\$103.45	<u>Model</u>	<u>Code</u>	<u>Rate</u>
227	<b>1623</b>	\$85.52	35D E boom	<b>1835</b>	\$59.31
229	<b>1625</b>	\$111.25	35D Y boom	<b>1845</b>	\$59.71
231D	<b>1630</b>	\$126.89	40D E boom	<b>1930</b>	\$74.94
231DLC	<b>1635</b>	\$128.39	40D Y boom	<b>1965</b>	\$79.85
235	<b>1640</b>	\$130.60	50D	<b>2005</b>	\$96.98
235B	<b>1642</b>	\$145.22	<b>FIAT-ALLIS</b>	<b>[ F-A ]</b>	
235 Front Shovel	<b>1645</b>	\$139.96	<u>Model</u>	<u>Code</u>	<u>Rate</u>
235B Front Shovel	<b>1647</b>	\$155.81	FE 18	<b>9000</b>	\$53.15
235C	<b>1648</b>	\$165.44	FE 20 HD	<b>9010</b>	\$67.01
235DLC	<b>1649</b>	\$171.02	FE 20 LC	<b>9020</b>	\$63.34
245	<b>1650</b>	\$219.87	FE 28	<b>9030</b>	\$89.21
245B	<b>1650B</b>	\$242.46	FE 40 L	<b>9040</b>	\$152.54
245 Front Shovel	<b>1652</b>	\$231.13			
245B Front Shovel	<b>1652B</b>	\$257.22			
E 180	<b>1653</b>	\$69.13			
EL 180	<b>1654</b>	\$70.22			



PC 300 LC-3	9525	\$122.71	MASSEY FERGUSON	[ M-F ]	
PC 300 LC-5	9526	\$138.84	<u>Model</u>	<u>Code</u>	<u>Rate</u>
PC 300 LC-6	9526A	\$151.16	MF 450D	6245	\$44.26
PC 300 LC-7	9526B	\$170.76	MF 450S	6250	\$47.64
PC 360 LC-3	9527	\$139.72			
PC 400 LC-1	9530	\$139.85	MITSUBISHI	[ MITS ]	
PC 400 LC-3	9535	\$163.79	<u>Model</u>	<u>Code</u>	<u>Rate</u>
PC 400 LC-5	9536	\$182.80	MS 090	6290	\$31.36
PC 400 LC-6	9537	\$206.18	MS 180-3	6295	\$59.95
PC 600 LC-6	9539	\$285.70	MS 180 LC-8	6296	\$67.83
PC 650-1	9540	\$255.60	MS 230 LC-3	6300	\$78.17
PC 650-1 Front Shovel	9550	\$269.75	MS 240 LC-8	6305	\$84.52
PC 650-3	9552	\$270.51	MS 280-2	6310	\$95.75
PC 750-6	9555	\$344.33	MS 380-2	6320	\$134.15
PC 1000-1	9560	\$409.92	MS 450-8	6330	\$155.03
PC 1000 LC-1	9565	\$421.93	NORTHWEST	[ NW ]	
PC 1100 LC-6	9575LC	\$473.02	<u>Model</u>	<u>Code</u>	<u>Rate</u>
<b>LINK-BELT</b>	[ L-B ]		35 DH	6335	\$121.76
<u>Model</u>	<u>Code</u>	<u>Rate</u>	45 DH	6340	\$132.53
LS 1600	5390	\$32.81	55 DH	6345	\$140.27
LS 2650	5395	\$45.72	55 DH Series II	6360	\$240.51
LS 2700C II	5398	\$61.71	<b>P&amp;H</b>	[ P&H ]	
2700 QUANTUM	5399	\$67.93	<u>Model</u>	<u>Code</u>	<u>Rate</u>
LS 2800	5400	\$53.81	H 750	6628	\$57.92
LS 2800A	5402	\$61.76	H 1250	6630	\$97.60
LS 2800A PL	5404	\$53.70	H 1750	6635	\$120.82
LS 2800 PL	5405	\$50.97	H 2500	6645	\$155.06
LS 2800B	5410	\$67.76	HS 2500	6650	\$159.67
LS 3400	5475	\$89.67			
LS 3400C II	5477	\$95.32	TAKEUCHI	[ TAKU ]	
LS 4300	5660	\$113.12	<u>Model</u>	<u>Code</u>	<u>Rate</u>
LS 4300C II	5662	\$124.52	TB 15	7686	\$13.38
LS 4800	5750	\$130.12	TB 025	7686A	\$22.64
LS 4800 PL	5755	\$117.25	TB 045	7686E	\$37.48
LS 5400	5805	\$151.45	TB 070	7686H	\$38.15
LS 5800	5810	\$157.44	TB 10S	7688	\$10.70
LS 5800A	5812	\$166.02	TB 35S	7690	\$21.28
LS 5800C II	5814	\$173.52	TB 68S	7692	\$30.66
LS 6400	5820	\$232.98	TB 800	7695	\$14.97
LS 7400	5830	\$232.64			
LS 7400A	5840	\$282.32			

**HYDRAULIC CRANES & EXCAVATORS, [ HCESP ]  
SELF PROPELLED.**

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

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

<b>BUCYRUS-ERIE</b>			<b>[ B-E ]</b>
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
300C/SP	<b>1670</b>	\$70.21	
320C	<b>1672</b>	\$70.39	
360C	<b>1678</b>	\$70.71	

<b>BADGER</b>			<b>[ BAGR ]</b>
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
4425/30	<b>1565</b>	\$94.32	
4435	<b>1570</b>	\$104.70	
4435B	<b>1573</b>	\$105.88	
4435C	<b>1573C</b>	\$114.57	
4445	<b>1574</b>	\$143.53	
4450	<b>1575</b>	\$111.24	
4450B	<b>1577</b>	\$117.45	
4455	<b>1579</b>	\$144.23	

<b>CASE</b>			<b>[ CASE ]</b>
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
40E E-Boom, Cruz Air	<b>1685</b>	\$60.25	
40E Y-Boom, Cruz Air	<b>1687</b>	\$60.46	
40F E-Boom, Cruz Air	<b>1687H</b>	\$62.43	
40F Y-Boom, Cruz Air	<b>1687K</b>	\$63.25	
45 E-Boom, Cruz Air	<b>1688</b>	\$78.03	
45 Y-Boom, Cruz Air	<b>1689</b>	\$82.65	
45B E-Boom, Cruz Air	<b>1689H</b>	\$82.44	
45B Y-Boom, Cruz Air	<b>1689K</b>	\$83.16	
880R E-Boom	<b>1690</b>	\$54.38	
880R Y-Boom	<b>1695</b>	\$54.50	
1085 E-Boom, Cruz Air	<b>1696E</b>	\$62.32	
1085 Y-Boom, Cruz Air	<b>1696Y</b>	\$62.61	
1085B Y-Boom, Cruz Air	<b>1696Z</b>	\$70.12	
1285 E-Boom, Cruz Air	<b>1697E</b>	\$78.87	
1285 Y-Boom, Cruz Air	<b>1697Y</b>	\$79.01	
3330 Low Profile	<b>1698E</b>	\$32.18	
3330B	<b>1698H</b>	\$32.42	

<b>CATERPILLAR</b>			<b>[ CAT ]</b>
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
206	<b>1699</b>	\$43.26	
212	<b>1699E</b>	\$55.43	
214	<b>1699H</b>	\$59.90	
224	<b>1699J</b>	\$73.71	

<b>GRADALL</b>			<b>[ GRAD ]</b>
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
G 3WD, 4x4	<b>0110</b>	\$90.72	

<b>GROVE</b>			<b>[ GROV ]</b>
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
24	<b>3820</b>	\$34.46	
36	<b>3830</b>	\$56.46	
68	<b>3850</b>	\$64.97	
1012	<b>3870</b>	\$77.57	
2535	<b>3880</b>	\$102.18	
RT-48	<b>4030</b>	\$59.63	
RT-49	<b>4115</b>	\$59.90	
RT-58	<b>4285</b>	\$61.11	
RT-418	<b>4354</b>	\$74.50	
RT-420	<b>4356</b>	\$74.50	
RT-422	<b>4358</b>	\$74.50	
RT-500D	<b>4359</b>	\$102.80	
RT-525	<b>4360</b>	\$70.02	
RT-525B	<b>4362</b>	\$72.83	
RT-525C	<b>4363</b>	\$89.35	
RT-527.5	<b>4365</b>	\$70.84	
RT-528B	<b>4370</b>	\$72.83	
RT-528C	<b>4372</b>	\$89.84	
RT-60	<b>4520</b>	\$71.13	
RT-60S	<b>4540</b>	\$73.01	
RT-515	<b>4606</b>	\$69.91	
RT-518	<b>4607</b>	\$71.79	
RT-520	<b>4608</b>	\$73.27	
RT-522	<b>4609</b>	\$72.54	
RT-522C	<b>4609G</b>	\$87.57	
RT-625	<b>4630</b>	\$78.89	
RT-630	<b>4635</b>	\$78.89	
RT-630B	<b>4637</b>	\$84.21	
RT-635	<b>4640</b>	\$89.92	
RT-65 S	<b>4700</b>	\$95.01	
RT-740	<b>4710</b>	\$105.76	
RT-745	<b>4715</b>	\$133.39	
RT-75 S	<b>4720</b>	\$100.84	
RT-755	<b>4725</b>	\$113.65	
RT-760	<b>4727</b>	\$163.04	
RT-865	<b>4730</b>	\$140.24	
RT-865B	<b>4732</b>	\$191.23	
RT-875	<b>4735</b>	\$172.48	
RT-980	<b>4750</b>	\$167.34	
RT-990	<b>4760</b>	\$192.77	
RT-9100	<b>4790</b>	\$245.50	

<b>KOMATSU</b>			<b>[ KOMA ]</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>
PW 210-1	<b>9580</b>	\$99.33				OMEGA 14	<b>5790</b>	\$65.05			
<b>LINK-BELT</b>			<b>[ L-B ]</b>			OMEGA 15	<b>5792</b>	\$65.05			
<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>	OMEGA 18	<b>5794</b>	\$65.47			
HSP 15	<b>5500</b>	\$68.12	OMEGA 25	<b>5795</b>	\$87.20	OMEGA 20	<b>5796</b>	\$66.13			
HSP 18	<b>5505</b>	\$68.12	OMEGA 23	<b>5796E</b>	\$68.82	OMEGA 30	<b>5796J</b>	\$89.56			
HSP 20	<b>5510</b>	\$73.98	OMEGA 35	<b>5796P</b>	\$90.50	OMEGA 40	<b>5797</b>	\$121.81			
HSP 22	<b>5530</b>	\$75.35	OMEGA 45	<b>5797E</b>	\$123.48	OMEGA 50	<b>5797J</b>	\$124.84			
HSP 25	<b>5535</b>	\$80.04	OMEGA 60	<b>5798</b>	\$129.14	OMEGA 65	<b>5799</b>	\$151.40			
HSP 8015	<b>5538</b>	\$78.44	OMEGA 114	<b>5799C</b>	\$73.86	OMEGA 114D	<b>5799G</b>	\$71.95			
HSP 8018	<b>5538E</b>	\$78.44	OMEGA 118	<b>5799Q</b>	\$75.34	OMEGA 118D	<b>5799S</b>	\$72.09			
HSP 8018XL	<b>5538G</b>	\$95.47	OMEGA 120	<b>5799U</b>	\$76.94	OMEGA 120D	<b>5799W</b>	\$72.78			
HSP 8018C	<b>5538H</b>	\$71.36	OMEGA 122	<b>5799X</b>	\$77.91	OMEGA 122D	<b>5799Y</b>	\$73.35			
HSP 8025	<b>5538P</b>	\$81.95	OMEGA 125	<b>5799Z</b>	\$78.28	OMEGA 128	<b>5799ZA</b>	\$76.75			
HSP 8025 S	<b>5538PF</b>	\$82.93	R 150	<b>5890</b>	\$55.67	R 150-1	<b>5910</b>	\$55.19			
HSP 8030	<b>5538Q</b>	\$93.81	R 180	<b>5975</b>	\$55.99	R 200	<b>6060</b>	\$56.31			
HSP 8035	<b>5538R</b>	\$136.39	OMEGA S-15	<b>6062</b>	\$89.92	OMEGA S-18	<b>6063</b>	\$89.92			
HSP 8040	<b>5538S</b>	\$136.52	OMEGA S-20	<b>6064</b>	\$92.42	S-35	<b>6064E</b>	\$126.91			
HSP 8050	<b>5538T</b>	\$138.61	<b>PETTIBONE</b>			<b>[ PET ]</b>					
HSP 8055	<b>5538V</b>	\$125.11	<u>Model</u>	<u>Code</u>	<u>Rate</u>	16 MK P Series	<b>6500</b>	\$60.55			
HSP 8060	<b>5539</b>	\$151.88	20 MK P Series	<b>6580</b>	\$61.17	25	<b>6740</b>	\$57.41			
<b>LORAIN</b>			<b>[ LORN ]</b>			25 MK P Series	<b>6750</b>	\$61.93			
<u>Model</u>	<u>Code</u>	<u>Rate</u>				29 MK P Series	<b>6880</b>	\$62.94			
LRT 15H	<b>5730</b>	\$69.58				30	<b>6900</b>	\$57.41			
LRT 15U	<b>5735</b>	\$70.84				30 MK P Series	<b>6903</b>	\$63.92			
LRT 18U	<b>5740</b>	\$71.27				30 SC, 30 SC P Series	<b>6910</b>	\$89.21			
LRT 35U	<b>5745</b>	\$103.87				60 SC	<b>6990</b>	\$95.19			
LRT 40U	<b>5750</b>	\$104.53				60 SC P Series	<b>6995</b>	\$101.45			
LRT 150	<b>5755</b>	\$68.78				70	<b>7100</b>	\$100.69			
LRT 150D	<b>5756</b>	\$83.72				70 SC	<b>7165</b>	\$101.09			
LRT 180	<b>5760</b>	\$68.75				70 SC P Series	<b>7170</b>	\$106.91			
LRT 180D	<b>5760D</b>	\$83.72				80 MK P Series	<b>7250</b>	\$99.38			
LRT 200	<b>5765</b>	\$68.61									
LRT 200D	<b>5765D</b>	\$83.88									
LRT 220	<b>5767</b>	\$70.95									
LRT 230	<b>5768</b>	\$75.15									
LRT 230D	<b>5768D</b>	\$83.90									
LRT 250	<b>5769</b>	\$75.17									
LRT 250D	<b>5769D</b>	\$83.90									
LRT 275	<b>5770</b>	\$75.17									
LRT 275D	<b>5770D</b>	\$83.90									
LRT 330	<b>5772</b>	\$97.01									
LRT 400	<b>5773</b>	\$111.12									
LRT 450	<b>5774</b>	\$114.20									
LRT 500	<b>5775</b>	\$117.16									
LRT 550	<b>5790</b>	\$122.30									

80 SC P Series 7260 \$100.74

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
MC 5A	8005	\$36.69
MC 50B	8175	\$58.29
MC 50C	8260	\$59.61

<b>HYDRAULIC CRANES &amp; EXCAVATORS, TRUCK MTD. W/ CARRIER</b>	<b>[ HCETD ]</b>
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**DELAY FACTOR = 0.13 OVERTIME FACTOR = 0.89**

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	\$84.61
30 XC	1370	\$85.24
40 C	1475	\$76.99
60 XC	1590	\$137.04
65 C	1592	\$118.64
90 XC	1600	\$148.14

**BADGER [ BAGR ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
300 Hydro-Scopic	0550	\$58.12
460 Hydro-Scopic	0555	\$71.17
666 Hydro-Scopic	0560	\$105.47
888 Hydro-Scopic	0600	\$110.99

**BANTAM [ BANT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
T 744 Teleskoop	1285	\$68.47
T 888	1310	\$99.80
T 888B	1315	\$116.47

**DEVAULT [ DVUT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TK 15-10	1900	\$47.84

**GRADALL [ GRAD ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
G 3W	0120	\$71.23
G 660	0170	\$69.04
G 660B	0180	\$89.93
G 660C	0190	\$87.09
G 800	0210	\$60.47
G 880B	0220	\$98.02
G 880C	0230	\$94.70
G 1000	0240	\$104.07

**GROVE [ GROV ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TD 520	2221	\$105.35
TD 522	2223	\$105.35
TD 525	2224	\$106.24
TMS 250	2850	\$98.87
TMS 250A	2860	\$99.34
TMS 250B	2870	\$99.34
TMS 250C	2875	\$136.35
TMS 300	2922	\$118.13
TMS 300B	2923	\$135.10
TMS 760	3180	\$206.78
TMS 865	3378	\$154.94
TM 875	3380	\$178.88
TMS 875	3385	\$179.75
TM 890	3387	\$194.56
TM 1075	3390	\$161.90

**HIAB [ HIAB ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
100 AW	3850	\$43.16
1165	3852	\$40.34
170 thru 174	3854	\$38.90
175 thru 177	3855	\$39.04
550, 5501	3857	\$41.60
650	3859	\$42.47

**KOEHRING [ KOEH ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
4460 Teleskoop	4400	\$69.14
4465 Teleskoop	4405	\$70.33
4470 Teleskoop	4410	\$81.69
4475 Teleskoop	4415	\$82.85

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
HTC 14	4505	\$96.48
HTC 25	4507	\$96.48
HTC 35	4509	\$106.07
HTC 50	4510	\$140.72
HTC 50W	4520	\$135.44
HTC 814	4530	\$126.28
HTC 814XL	4531	\$131.14
HTC 822 S	4532	\$118.23
HTC 825	4535	\$110.70
HTC 825 S	4536	\$119.27
HTC 830	4537	\$128.16
HTC 835	4539	\$135.04
HTC 835XL	4539C	\$152.61
HTC 840	4539E	\$155.99
HTC 850	4539G	\$160.97



HTC 855	<b>4539H</b>	\$141.98	T-300A	<b>5665</b>	\$114.29
HTC 860	<b>4539J</b>	\$163.62	OMEGA T-400	<b>5666M</b>	\$140.09
HTC 1040	<b>4540</b>	\$153.74	OMEGA T-450	<b>5669</b>	\$141.76
HTC 1050	<b>4545</b>	\$155.93	T-600 XL	<b>5670</b>	\$164.21
HTC 1055	<b>4550</b>	\$145.58	OMEGA T-500	<b>5680</b>	\$141.75
HTC 1060	<b>4555</b>	\$160.44	OMEGA T-650	<b>5745</b>	\$191.81
HTC 11100	<b>4600</b>	\$281.69	T-750	<b>5780</b>	\$134.04

**LORAIN**

**[ LORN ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
MCH 140	<b>4942</b>	\$112.99
MCH 150	<b>4946</b>	\$105.90
MCH 180	<b>4947</b>	\$105.90
MCH 300	<b>4953</b>	\$123.53
MCH 350	<b>4955</b>	\$98.66
MCH 400	<b>4957</b>	\$134.98
MCH 500	<b>4960</b>	\$107.58

**MANITEX**

**[ MANX ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
1161	<b>4980</b>	\$46.26
1770	<b>4985</b>	\$76.97
2284	<b>4990</b>	\$79.66
2592	<b>4995</b>	\$81.54

**NATIONAL**

**[ NATL ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Ser 4/400, 11.3 m (37') boom	<b>4983</b>	\$43.08
Ser 4/400, 14.0 m (46') boom	<b>4984</b>	\$43.28
Ser 4/400, 16.8 m (55') boom	<b>4985</b>	\$43.44
Ser 5/500A/B, 14.3 m (47') boom	<b>4986</b>	\$48.10
Ser 5/500A/B, 17.1 m (56') boom	<b>4987</b>	\$48.70
Ser 6/600, 14.3 m (47') boom	<b>4989</b>	\$47.62
Ser 6/600, 17.1 m (56') boom	<b>4990</b>	\$47.97
856	<b>4995</b>	\$48.46
856B	<b>4996</b>	\$47.65
875	<b>4997</b>	\$49.18
875B	<b>4998</b>	\$50.57
Series 85	<b>4999</b>	\$44.50

**P&H**

**[ P&H ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
ALPHA 100 ton	<b>5000</b>	\$259.66
CN T-280	<b>5005</b>	\$140.92
T-150	<b>5290</b>	\$103.67
T-180	<b>5380</b>	\$104.10
T-200	<b>5470</b>	\$104.62
T-250	<b>5560</b>	\$121.85
CN T-250	<b>5561</b>	\$143.22
OMEGA T-250	<b>5570</b>	\$115.56
OMEGA T-300	<b>5580</b>	\$118.72
OMEGA T-350	<b>5585</b>	\$119.91

**PITMAN**

**[ PIT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Hydralift HL 40 thru 95	<b>6670</b>	\$39.29
Hydralift HL 100 thru 170	<b>6675</b>	\$42.38
HL 857	<b>6685</b>	\$47.21
HL 1200, 1545-T2 or 1580	<b>6695</b>	\$49.51
POLECAT	<b>6697</b>	\$50.47
PELICAN	<b>6699</b>	\$53.25

**R.O. PRODUCTS**

**[ ROP ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TC-40	<b>6860</b>	\$40.21
TC-50	<b>6862</b>	\$41.76
TC-70	<b>6864</b>	\$43.10
TC-80	<b>6866</b>	\$43.14
TC-85	<b>6868</b>	\$42.68
TC-110	<b>6870</b>	\$46.53
TC-120	<b>6872</b>	\$47.15
TC-125	<b>6874</b>	\$46.78
TC-145	<b>6876</b>	\$49.64
TC-150	<b>6878</b>	\$48.08

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

**DELAY FACTOR = 0.10                      OVERTIME FACTOR = 0.92**

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

**BUCYRUS-ERIE**

**[ B-E ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
H-3 series two	<b>1000</b>	\$41.91
H-5 series two	<b>1300</b>	\$49.36

**GALION**

**[ GALN ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
125 P	<b>1970</b>	\$50.95
150 P	<b>1980</b>	\$61.51

**GROVE**

**[ GROV ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
TM 100C	<b>2020</b>	\$72.92
TM 200C	<b>2040</b>	\$58.53

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

**DELAY FACTOR = 0.22 OVERTIME FACTOR = 0.79**

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).

<b>BOOM TYPE</b>		<b>[ BOOM ]</b>	
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	7.6 (25)	<b>00-24</b>	\$16.15
7.6 (25)	15.2 (50)	<b>25-49</b>	\$38.23
15.2 (50)	22.9 (75)	<b>50-74</b>	\$53.62

<b>SCISSOR TYPE</b>		<b>[ SCIS ]</b>	
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
0	6.1 (20)	<b>00-20</b>	\$17.57
6.4 (21)	9.1 (30)	<b>21-30</b>	\$21.17
9.4 (31)	15.2 (50)	<b>31-50</b>	\$31.50

**LOADERS, CRAWLER [ LDRCL ]**

**DELAY FACTOR = 0.12 OVERTIME FACTOR = 0.90**

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

<b>CASE</b>		<b>[ CASE ]</b>	
<u>Model</u>		<u>Code</u>	<u>Rate</u>
350B		<b>2370</b>	\$34.56
450B		<b>2610</b>	\$31.65
455B		<b>2620</b>	\$33.37
455C		<b>2620A</b>	\$37.19
1155D		<b>3555</b>	\$64.72
1155E		<b>3556</b>	\$71.38
1450		<b>3560</b>	\$71.31
1450B		<b>3565</b>	\$79.01
1455B		<b>3568</b>	\$79.89

<b>CATERPILLAR</b>		<b>[ CAT ]</b>	
<u>Model</u>		<u>Code</u>	<u>Rate</u>
259D		<b>2159</b>	\$42.09
289D		<b>2189</b>	\$44.47
299D2		<b>2199A</b>	\$55.10
931B		<b>3735</b>	\$35.65
931C		<b>3735C</b>	\$37.85
931 LGP		<b>3740</b>	\$33.62
931B LGP		<b>3745</b>	\$36.73
935B		<b>3845</b>	\$42.42
935C		<b>3845C</b>	\$45.03
939C		<b>3900</b>	\$63.99
943		<b>4130</b>	\$54.58
943 LGP		<b>4135</b>	\$51.51
951C 86J 1992 serial		<b>4200</b>	\$48.74
951C 86J 2598 serial		<b>4210</b>	\$53.98

951C LGP 86J 2598 ser	<b>4215</b>	\$54.79
953	<b>4220</b>	\$73.64
953 LGP	<b>4230</b>	\$68.81
955L 85J 6247 serial	<b>4675</b>	\$69.00
955L 85J 13X10129 ser	<b>4680</b>	\$74.67
955L LGP 85J 13X10129	<b>4685</b>	\$75.01
963	<b>4690</b>	\$101.62
963 LGP	<b>4693</b>	\$92.36
973	<b>4695</b>	\$156.42
973 LGP	<b>4698</b>	\$130.03
977K	<b>5014</b>	\$80.20
977K 11K serial	<b>5092</b>	\$84.40
977L 11K 3919 serial	<b>5170</b>	\$98.40
977L 11K 5083 serial	<b>5180</b>	\$107.35
977L 14X serial	<b>5185</b>	\$111.64
977L LGP	<b>5190</b>	\$111.31
983	<b>5248</b>	\$152.18
983B	<b>5265</b>	\$163.59

<b>JOHN DEERE</b>		<b>[ DEER ]</b>	
<u>Model</u>		<u>Code</u>	<u>Rate</u>
JD 350C		<b>5420</b>	\$36.56
JD 450C (4 speed PS)		<b>5805</b>	\$36.57
JD 455D		<b>5807</b>	\$38.50
JD 455E		<b>5809</b>	\$39.02
JD 455G		<b>5809A</b>	\$47.84
JD 555		<b>5810</b>	\$41.30
JD 555A		<b>5812</b>	\$45.62
JD 555B		<b>5814</b>	\$44.86
JD 555G		<b>5814A</b>	\$64.94
JD 655		<b>5815</b>	\$65.37
JD 655B		<b>5817</b>	\$75.27
JD 755		<b>5820</b>	\$61.51
JD 755A		<b>5822</b>	\$76.66
JD 755B		<b>5824</b>	\$86.86
JD 855		<b>5830</b>	\$116.03

<b>DRESSER</b>		<b>[ DRES ]</b>	
<u>Model</u>		<u>Code</u>	<u>Rate</u>
100E (PS)		<b>9000</b>	\$37.89
100G		<b>9005</b>	\$43.80
125E (PS)		<b>9010</b>	\$46.73
125G		<b>9015</b>	\$52.97
175C (PS)		<b>9020</b>	\$93.20
200		<b>9025</b>	\$107.70
250C (PS)		<b>9030</b>	\$109.83
250E (PS)		<b>9035</b>	\$126.49

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
D 53S-16	<b>7878</b>	\$62.39
D 53S-17	<b>7878A</b>	\$74.82
D 55S-2	<b>7900</b>	\$64.03
D 55S-3	<b>7978</b>	\$64.03
D 57S-1	<b>8000</b>	\$86.55
D 65S-6	<b>8017</b>	\$84.12
D 66S-1	<b>8020</b>	\$116.83
D 75S-2	<b>8056</b>	\$91.33
D 75S-3	<b>8060</b>	\$113.76
D 75S-5	<b>8061</b>	\$166.36
D 155S-1	<b>8080</b>	\$222.24

**LOADERS, RUBBER TIRE****[ LDRRT ]****DELAY FACTOR = 0.12****OVERTIME FACTOR = 0.89**

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>	\$35.40
714B	<b>0750</b>	\$34.53
714C w/ backhoe	<b>0752</b>	\$36.95
715B w/ backhoe	<b>0765</b>	\$36.38
715C w/ backhoe	<b>0767</b>	\$37.20

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
W-11	<b>1365</b>	\$33.06
W-11B	<b>1368</b>	\$40.30
W-18	<b>1444</b>	\$56.01
W-18 9213140 serial	<b>1450</b>	\$59.36
W-18B	<b>1460</b>	\$64.04
W-20	<b>1472</b>	\$59.48
W-20B	<b>1480</b>	\$60.23
W-20C	<b>1482</b>	\$64.81
W-30	<b>1565</b>	\$88.84
480B	<b>1636</b>	\$28.27
480B w/ backhoe	<b>1640</b>	\$29.52
480C	<b>1650</b>	\$36.47
480C w/ backhoe	<b>1660</b>	\$37.97
480D	<b>1662</b>	\$40.84
480D w/ backhoe	<b>1664</b>	\$42.70
480E w/ backhoe	<b>1666</b>	\$34.94
480E LL	<b>1667</b>	\$33.78
480F w/ backhoe	<b>1668</b>	\$36.19
480F LL	<b>1669</b>	\$34.50
480LL	<b>1677</b>	\$40.88
570L XT 4WD	<b>1690</b>	\$39.60

580B w/ backhoe	<b>1705</b>	\$37.07
580C	<b>1710</b>	\$29.47
580C w/ backhoe	<b>1715</b>	\$31.30
580D	<b>1717</b>	\$30.76
580D w/ backhoe	<b>1720</b>	\$33.16
580 Super D	<b>1725</b>	\$33.58
580 Super D w/ backhoe	<b>1727</b>	\$36.03
580 Super E	<b>1731</b>	\$34.54
580 Super E w/ backhoe	<b>1735</b>	\$37.18
580K w/ backhoe	<b>1739</b>	\$37.45
580K 4WD w/ backhoe	<b>1740</b>	\$38.50
580 Super K w/ backhoe	<b>1742</b>	\$41.39
580L w/ backhoe	<b>1743</b>	\$41.64
580 Super L 4WD w/ backhoe	<b>1744</b>	\$48.34
590 Turbo w/ backhoe	<b>1745</b>	\$50.59
590 Super L 4WD w/ backhoe	<b>1746</b>	\$52.91
621	<b>1750</b>	\$68.27
721	<b>1752</b>	\$82.93
821	<b>1754</b>	\$101.42
680E w/ backhoe	<b>1840</b>	\$47.53
680G w/ backhoe	<b>1850</b>	\$46.24
680H w/ backhoe	<b>1852</b>	\$49.01
680K w/ backhoe	<b>1854</b>	\$53.53
680L w/ backhoe	<b>1856</b>	\$54.21
680L 4WD w/ backhoe	<b>1857</b>	\$54.98
780 w/ backhoe	<b>1864</b>	\$61.00
780B w/ backhoe	<b>1866</b>	\$65.33
780C w/ backhoe	<b>1867</b>	\$66.47
780D w/ backhoe	<b>1868</b>	\$67.20
780D 4WD w/ backhoe	<b>1869</b>	\$68.53

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
415F2	<b>1850F2</b>	\$47.87
416 w/ backhoe	<b>1860</b>	\$37.42
416 Series II w/ backhoe	<b>1860A</b>	\$37.63
416B 4WD w/ extend-a-hoe	<b>1861A</b>	\$46.30
416C 4WD w/ backhoe	<b>1861C</b>	\$47.97
416D w/ backhoe	<b>1861D</b>	\$43.32
416D 4WD w/ backhoe	<b>1861D4</b>	\$44.38
420D w/ backhoe	<b>1861M</b>	\$48.59
420D 4WD w/ backhoe	<b>1861M4</b>	\$49.65
420E	<b>1861N</b>	\$58.50
420F2	<b>1861N2</b>	\$69.27
426 w/ backhoe	<b>1862</b>	\$42.29
426 Series II w/ backhoe	<b>1862A</b>	\$42.50
426C w/ backhoe	<b>1862C</b>	\$52.89
426C 4WD w/ backhoe	<b>1862C4</b>	\$54.25
428 w/ backhoe	<b>1864</b>	\$42.26
428 Series II w/ backhoe	<b>1864A</b>	\$42.48
430D	<b>1865D</b>	\$58.73

430E	1865E	\$62.11	IT 12	2472	\$40.62
436 w/ backhoe	1866	\$46.09	IT 12B	2472B	\$47.30
436 Series II w/ backhoe	1866A	\$46.26	IT 14F	2473	\$54.77
446 w/ backhoe	1868	\$59.57	IT 18	2474	\$51.93
446B w/ backhoe	1868B	\$65.77	IT 18B	2475	\$58.70
446D	1868D	\$68.20	IT 28	2476	\$62.88
450E	1869E	\$82.27	IT 28B	2477	\$68.14
910	1870	\$39.87	IT 28F	2477G	\$78.89
910E	1870E	\$46.90	IT 28G	2478	\$82.01
916	1885	\$53.14	IT 38G	2480	\$94.49
920	1894	\$48.66	IT 62G	2482	\$129.99
926	2065	\$62.42	<b>CLARK</b>	<b>[ CLRK ]</b>	
926E	2067	\$67.44	<u>Model</u>	<u>Code</u>	<u>Rate</u>
928G	2070G	\$80.66	35C	2484	\$49.74
930 41K serial	2088	\$59.66	45C	2486	\$58.13
930G	2088G	\$95.67	55C	2488	\$70.23
936	2100	\$75.68	75C	2491	\$91.62
936E	2110	\$82.46	125B	2492	\$118.22
936F	2120	\$85.68	275B	2496	\$205.16
938F	2130	\$87.42	275C	2497	\$223.31
938G	2130G	\$98.88	<b>JOHN DEERE</b>	<b>[ DEER ]</b>	
950 90A serial	2228	\$64.41	<u>Model</u>	<u>Code</u>	<u>Rate</u>
950 31K & 81J serial	2270	\$77.01	JD-210C	2485	\$31.63
950B	2272	\$94.62	JD-210C w/ backhoe	2490	\$31.61
950E	2300	\$100.55	JD-210LE	2495	\$41.49
950F	2301	\$105.91	JD-310A w/ backhoe	2504	\$33.15
950F Series II	2303	\$109.50	JD-310B w/ backhoe	2506	\$33.83
950G	2310	\$117.62	JD-310C w/ backhoe	2507	\$37.28
950H	2310H	\$136.17	JD-310D w/ backhoe	2507D	\$41.91
950M	2310M	\$160.58	JD-310E w/ backhoe	2507E	\$42.89
962G	2320G	\$128.74	JD-310SE w/ backhoe	2507F	\$48.03
966C	2340	\$112.12	310G	2507G	\$44.01
966D	2350	\$124.07	JD-315SE w/ backhoe	2507H	\$48.65
966E	2360	\$136.90	JD-410 w/ backhoe	2508	\$36.21
966F	2361	\$139.87	JD-410B w/ backhoe	2508B	\$36.90
966G	2362	\$156.88	JD-410C w/ backhoe	2508C	\$43.37
966H	2362H	\$182.40	JD-410D w/ backhoe	2508D	\$51.52
966K	2362K	\$186.72	JD-410E w/ backhoe	2508E	\$54.12
970F	2370	\$164.12	410G	2508G	\$55.31
972G	2372G	\$175.02	410J 4WD	2508J	\$63.64
972M	2372M	\$206.74	410K	2508K	\$68.12
980B	2376	\$143.58	JD-444	2510	\$48.21
980C	2378	\$174.28	JD-444C	2515	\$50.16
980F	2381	\$179.55	JD-444D	2520	\$51.74
980G	2382	\$197.85	JD-444E	2521	\$56.11
980H	2382H	\$216.00	JD-500C w/ backhoe	2592	\$47.00
988 87A6868 serial	2398	\$175.71	JD-510 w/ backhoe	2620	\$43.67
988B 50W serial	2436	\$249.65	JD-510B w/ backhoe	2625	\$41.97
992B 25K serial	2460	\$312.62	JD-510C w/ backhoe	2630	\$49.53
992C	2470	\$476.37			

JD-510D w/ backhoe	2630D	\$58.52	FR 35	3052	\$221.09
JD-544B	2660B	\$59.75	<b>FORD</b>	[ FORD ]	
JD-544C	2660C	\$61.33	<u>Model</u>	<u>Code</u>	<u>Rate</u>
JD-544D	2660D	\$60.26	545C	3054	\$34.10
JD-544E	2660E	\$66.62	650 w/ backhoe	3056	\$37.71
JD-544G	2660G	\$73.31	655A w/ backhoe	3056F	\$42.01
544J	2660J	\$95.73	655C w/ backhoe	3056G	\$46.01
544K	2660K	\$106.92	750 w/ backhoe	3057	\$49.26
JD-610B w/ backhoe	2690	\$47.99	755 w/ backhoe	3061	\$52.32
JD-610C w/ backhoe	2691	\$54.76	755B w/ backhoe	3063	\$59.49
JD-624E	2700	\$79.72	755A w/ backhoe	3065	\$58.14
JD-624G	2700G	\$90.09	A-62	3114	\$51.18
JD-624H	2700H	\$98.68	A-64	3116	\$62.11
JD-644B	2710	\$82.60	A-66	3118	\$80.86
JD-644C	2715	\$85.45	<b>FURUKAWA</b>	[ FURU ]	
JD-644D	2717	\$88.40	<u>Model</u>	<u>Code</u>	<u>Rate</u>
JD-644E	2719	\$95.45	FL 320A	3120M	\$114.50
JD-644G	2719B	\$108.24	FL 330	3120S	\$124.86
JD-644H	2719H	\$115.96	<b>HOUGH</b>	[ HOUG ]	
644J	2719J	\$128.40	<u>Model</u>	<u>Code</u>	<u>Rate</u>
JD-710B w/ backhoe	2720	\$61.43	H65C	3578	\$79.80
JD-710C w/ backhoe	2721	\$68.21	H-90E	3884	\$137.76
JD-710D w/ backhoe	2722	\$74.04	H-100C	3954	\$162.21
JD-710D 4WD w/ backhoe	2722D	\$75.94	<b>INTERNATIONAL</b>	[ INTL ]	
710G	2722G	\$78.50	<u>Model</u>	<u>Code</u>	<u>Rate</u>
JD-744H	2723	\$157.71	260A	2260	\$36.56
744J	2723J	\$185.78	260A w/ backhoe	2270	\$38.18
JD-844	2725	\$152.63	270A w/ backhoe	2280	\$42.07
<b>DRESSER</b>	[ DRES ]		280A w/ backhoe	2285	\$51.57
<u>Model</u>	<u>Code</u>	<u>Rate</u>	<b>J C B</b>	[ JCB ]	
510B	2310	\$46.87	<u>Model</u>	<u>Code</u>	<u>Rate</u>
510C	2310C	\$62.51	214S w/ backhoe	4430	\$50.33
515B	3517	\$60.90	215S w/ backhoe	4435	\$55.26
515C	3517C	\$73.90	217S w/ backhoe	4440	\$58.49
520B	3519	\$70.39	3C 1550 2WD w/ hoe	4448	\$35.97
520C	3519C	\$88.05	3D 1700 4WD w/ hoe	4450	\$47.98
530	3520	\$98.56	1400B w/ backhoe	4455	\$40.74
530C	3520C	\$107.09	1550B w/ backhoe	4457	\$46.64
540	3530	\$135.01	1600B w/ backhoe	4458	\$53.66
550	3540	\$135.15	1700B w/ backhoe	4459	\$54.70
<b>FIAT-ALLIS</b>	[ F-A ]		<b>KAWASAKI</b>	[ KAWA ]	
<u>Model</u>	<u>Code</u>	<u>Rate</u>	<u>Model</u>	<u>Code</u>	<u>Rate</u>
545B	3042	\$57.59	60Z IV	4300	\$68.89
745C	3046	\$113.06	65Z IV	4310	\$76.94
FR 10	3049H	\$60.80	KSS 80Z II	4330	\$99.10
FR 10B	3049I	\$66.05	80Z III	4335	\$114.88
FR 20	3050	\$127.60	80Z IV	4340	\$116.90
FR 30	3051	\$166.64			
FR 20B	3051B	\$141.76			

85Z IV	4345	\$146.86	<b>TEREX</b>	<b>[ TERX ]</b>
90Z III	4350	\$162.68	<u>Model</u>	<u>Code</u> <u>Rate</u>
90Z IV	4355	\$166.67	70C	7938      \$144.74
95Z IV-2	4360	\$213.60	72-61	8036      \$177.80
<b>KOMATSU</b>	<b>[ KOMA ]</b>		72-71B	8055      \$231.64
<u>Model</u>	<u>Code</u>	<u>Rate</u>	72-81	8080      \$273.36

W 120-3	4520	\$116.01
W 180-1	4525	\$164.33
WA 200-1	4536	\$65.43
WA 250-1	4537	\$89.47
WA 300-1	4538	\$85.44
WA 320-1	4539	\$104.66
WA 350-1	4540	\$100.73
WA 380-1	4541	\$124.65
WA 380-3	4541C	\$124.49
WA 400-1	4542	\$120.21
WA 420-3	4543C	\$143.05
WA 450-1	4544	\$149.20
WA 450-2	4544B	\$167.94
WA 450-3	4544C	\$170.35
WA 470-1	4545	\$163.90
WA 500-1	4546	\$197.47
WA 600-1	4550	\$290.74
WB 140-2 4WD	4700	\$52.85
WB 150-2 4WD	4710	\$60.89

<b>VOLVO-MICHIGAN-EUCLID</b>	<b>[ VME ]</b>
<u>Model</u>	<u>Code</u> <u>Rate</u>
175B	6186      \$146.69
175C	6186C      \$167.44
275B	6330      \$186.74
275C	6330C      \$223.31
L-70C	9570C      \$75.31
L-90	9575      \$90.26
L-120	9595      \$117.19
L-120C	9595C      \$121.54
L-150C	9598C      \$151.22
L-160	9600      \$157.46
L-180C	9602C      \$169.92
L-190	9605      \$182.98
L-250G	9606G      \$276.69

<b>LEADS, PILE DRIVING</b>	<b>[ LEADS ]</b>
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**DELAY FACTOR = 0.47      OVERTIME FACTOR = 0.60**

<b>MASSEY FERGUSON</b>	<b>[ M-F ]</b>
<u>Model</u>	<u>Code</u> <u>Rate</u>
MF 44C	5143      \$62.13
MF 50H Series S	5150      \$36.85
MF 50H Series S, 4WD	5152      \$37.52
MF 50HX Series S	5154      \$39.75
MF 50HX Series S, 4WD	5156      \$40.60
MF 55C	5170      \$79.73
MF 60 w/ backhoe	5171      \$38.88
MF 60H Series S w/ hoe	5172      \$41.97
MF 66C	5174      \$101.76
MF 80 w/ backhoe	5182      \$55.60
MF 88	5184      \$161.58
640	6000      \$37.01
650	6010      \$39.66

<b>FIXED</b>	<b>[ FIXD ]</b>	
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      \$20.95
16.8 (55)	32.0 (105) (w/o spotter)	0200      \$26.70
over	32.0 (105) (w/o spotter)	0300      \$33.44
0	16.8 (55) (w/ spotter)	1100      \$35.43
16.8 (55)	32.0 (105) (w/ spotter)	1200      \$42.27
over	32.0 (105) (w/ spotter)	1300      \$50.10

<b>NEW HOLLAND</b>	<b>[ NHND ]</b>
<u>Model</u>	<u>Code</u> <u>Rate</u>
545D	0100      \$35.45
575E w/ backhoe	0110      \$49.84
655D w/ backhoe	0120      \$44.79
655E w/ backhoe	0130      \$53.60
675D 4WD w/ backhoe	0140      \$51.71
675E 4WD w/ backhoe	0150      \$61.27

<b>SWINGING</b>	<b>[ SWNG ]</b>	
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      \$13.88
16.8 (55)	32.0 (105) (w/o spotter)	0500      \$19.32
over	32.0 (105) (w/o spotter)	0600      \$26.07
0	16.8 (55) (w/ spotter)	1400      \$28.36
16.8 (55)	32.0 (105) (w/ spotter)	1500      \$34.89
over	32.0 (105) (w/ spotter)	1600      \$42.72

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

**DELAY FACTOR = 0.56                      OVERTIME FACTOR = 1.00**

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

**MISCELLANEOUS                      [ MISC ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Casing, 450 mm dia, per 0.3 m (Casing, 18" dia, per lf)	<b>0120</b>	\$0.04
Casing, 650 mm dia, per 0.3 m (Casing, 26" dia, per lf)	<b>0130</b>	\$0.06
Casing, 900 mm dia, per 0.3 m (Casing, 36" dia, per lf)	<b>0140</b>	\$0.09
Casing, 1800 mm dia, per 0.3 m (Casing, 72" dia, per lf)	<b>0150</b>	\$0.21
Casing, 2400 mm dia, per 0.3 m (Casing, 96" dia, per lf)	<b>0160</b>	\$0.26
Casing, 2700 mm dia, per 0.3 m (Casing, 108" dia, per lf)	<b>0170</b>	\$0.30
Casing, 3000 mm dia, per 0.3 m (Casing, 120" dia, per lf)	<b>0180</b>	\$0.40
Pile, all depths "H" pile, per 45.0 kg (Pile, all depths "H" pile, per hundred-weight)	<b>0190</b>	\$0.04
Pipe, 250-300 mm dia, per 0.3 m (Pipe, 10-12" dia, per lf)	<b>0200</b>	\$0.02
Plate, 22 mm thick, per 9.3 sm (Plate, 7/8" thick, per 100 sf)	<b>0210</b>	\$1.27
Plate, 25 mm thick, per 9.3 sm (Plate, 1" thick, per 100 sf)	<b>0220</b>	\$1.45
Plate, 38 mm thick, per 9.3 sm (Plate, 1.5" thick, per 100 sf)	<b>0230</b>	\$2.18

**SCAFFOLDING, SHORING,                      [ SSWF ]**

**FALSEWORK**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Metal form, 1.8 m x3.0 m, per 14.6 m (Metal form, 6x10 box culvert, per 48 lf)	<b>0310</b>	\$44.35
Metal form, 2.4 m x3.7 m, per 15.2 m (Metal form, 8x12 box culvert, per 50 lf)	<b>0320</b>	\$49.15
Metal form, 2.1 m x4.3 m, per 15.2 m (Metal form, 7x14 box culvert, per 50 lf)	<b>0330</b>	\$54.02
Metal form, type 25 barrier, per 3.0 m (Metal form, type 25 barrier, per 10 lf)	<b>0340</b>	\$2.70
Metal form, type 26 barrier, per 3.0 m (Metal form, type 26 barrier, per 10 lf)	<b>0350</b>	\$2.85
Metal form, type 27 barrier, per 3.0 m (Metal form, type 27 barrier, per 10 lf)	<b>0360</b>	\$2.46
Metal form, type 50 barrier, per 3.0 m (Metal form, type 50 barrier, per 10 lf)	<b>0370</b>	\$2.66
Metal form, 1.8 m x 3.7 m girder panel, per 0.1 sm ( 6x12 girder panel, per sf)	<b>0380</b>	\$0.16

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>	\$0.55
Scaffolding, 3.0 m section, per section (Scaffolding, 10' section, per section)	<b>0420</b>	\$1.23
Scaffolding, 4.6 m section, per section (Scaffolding, 15' section, per section)	<b>0430</b>	\$1.63
Scaffolding, bottom/top section, per 1.5 m section (per 5 ft section)	<b>0440</b>	\$0.77
Scaffolding, 2.1 m high, rolling (Scaffolding, 7' high, rolling)	<b>0450</b>	\$1.16
Scaffolding, spider staging, plus air compressor	<b>0460</b>	\$24.68
Shoring, 1.1 m deep x 2235 mm wide, per section (Shoring, 3.5' deep x 88" wide trench, per section)	<b>0510</b>	\$1.27
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>	\$11.67
Shoring, 1.5 m deep x 2235 mm wide, per section (Shoring, 5' deep x 88" wide trench, per section)	<b>0520</b>	\$1.34
Shoring, 2.1 m deep x 1397 mm wide, per section (Shoring, 7' deep x 55" wide trench, per section)	<b>0530</b>	\$1.18
Shoring, 2.1 m deep x 2235 mm wide, per section (Shoring, 7' deepx88" wide trench, per section)	<b>0540</b>	\$1.41
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>	\$9.62
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>	\$18.98
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>	\$17.04
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>	\$23.70
Wood, 50 mm x255 mm, per 30.5 m (Wood, 2"x10", per 100 lf)	<b>0605</b>	\$0.16
Wood, 50 mm x305 mm, per 30.5 m (Wood, 2"x12", per 100 lf)	<b>0610</b>	\$0.20
Wood, 100mm x100mm, per 30.5 m (Wood, 4"x4", per 100 lf)	<b>0615</b>	\$0.14
Wood, 100 mm x150 mm, per 30.5 m (Wood, 4"x6", per 100 lf)	<b>0620</b>	\$0.20
Wood, 100 mm x205 mm, per 30.5 m (Wood, 4"x8", per 100 lf)	<b>0625</b>	\$0.28
Wood, 100 mm x305 mm, per 30.5 m (Wood, 4"x12", per 100 lf)	<b>0630</b>	\$0.42
Wood, 150 mm x305 mm, per 30.5 m (Wood, 6"x12", per 100 lf)	<b>0635</b>	\$0.70
Wood, 150 mm x455 mm, per 30.5 m (Wood, 6"x18", per 100 lf)	<b>0640</b>	\$1.12
Wood, 205 mm x405 mm, per 30.5 m (Wood, 8"x16", per 100 lf)	<b>0645</b>	\$1.38
Wood, 305 mm x455 mm, per 30.5 m (Wood, 8"x18", per 100 lf)	<b>0650</b>	\$1.55

Wood, 305 mm x305 mm, per 30.5 m (Wood, 12"x12", per 100 lf)	<b>0655</b>	\$1.34
Wood form, type 27 barrier, per 2.4 m (Wood form, type 27 barrier, per 8 lf)	<b>0660</b>	\$0.29
Wide flange beam, all depths, per 45 kg (Wide flange beam, all depths, per hundred wt.)	<b>0670</b>	\$0.04

<b>TANK</b>	[ TANK ]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
Tank, metal, 0-2270 liters (0-600 gallons)	<b>0710</b>	\$0.76	
Tank, metal, 2270-4540 liters (600-1200 gal)	<b>0720</b>	\$1.03	
Tank, metal, 4540-9840 liters (1200-2600 gal)	<b>0730</b>	\$2.56	
Tank, metal, 22 710 liters (6000 gallons)	<b>0740</b>	\$5.15	
Tank, metal, 28 390 liters (7500 gallons)	<b>0750</b>	\$6.46	
Tank, metal, 30 280 liters ( 8000 gallons)	<b>0760</b>	\$6.83	
Tank, metal, 37 850 liters (10000 gallons)	<b>0770</b>	\$7.58	

<b>TRAFFIC SAFETY</b>	[ TRAF ]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
Crash cushion barrel, filled, each	<b>0810</b>	\$1.23	
K-rail, temporary concrete barrier, per 6.1 m (20 lf)	<b>0820</b>	\$0.49	

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

**DELAY FACTOR = 0.09      OVERTIME FACTOR = 0.92**

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.

<b>CONCUT</b>	[ CCUT ]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
BC-38 (136 blades)	<b>0500</b>	\$181.47	
BC-244 (187 blades)	<b>0505</b>	\$224.57	
BC-1268 (48 blades)	<b>0510</b>	\$69.66	

<b>CUSHION CUT</b>	[ CUCT ]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
HG-130A (127 blades)	<b>0600</b>	\$173.53	
PC-390(171 blades)	<b>0610</b>	\$268.93	

<b>PENHALL</b>	[ PENH ]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
G-38 (172 blades)	<b>0800</b>	\$342.19	

<b>TARGET</b>	[ TARG ]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
CG-65 (41 blades)	<b>0900</b>	\$106.38	
PRM-3804 (170 blades)	<b>0905</b>	\$376.62	

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

**DELAY FACTOR = 0.12      OVERTIME FACTOR = 0.90**

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.

<b>BARBER-GREENE</b>	[ B-G ]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
RX-20	<b>0100</b>	\$178.11	
RX-30	<b>0105</b>	\$282.82	
RX-40B	<b>0110</b>	\$327.85	
RX-50	<b>0115</b>	\$385.47	
RX-80B	<b>0120</b>	\$642.11	

<b>CATERPILLAR</b>	[ CAT ]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
PM-800	<b>0200</b>	\$499.80	
PR-105	<b>0201</b>	\$86.86	
PR-275	<b>0205</b>	\$237.57	
PR-450	<b>0210</b>	\$347.67	
PR-750	<b>0215</b>	\$509.13	
PR-750B	<b>0216</b>	\$533.48	
PR-1000	<b>0220</b>	\$698.82	

<b>C.M.I.</b>	[ CMI ]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
PR-275 RT	<b>0150</b>	\$225.99	
PR-375	<b>0155</b>	\$288.39	
PR-450	<b>0160</b>	\$330.42	
PR-525	<b>0165</b>	\$356.72	
PR-500FL	<b>0170</b>	\$390.07	
PR-750	<b>0175</b>	\$491.90	
PR-800-7	<b>0177</b>	\$537.44	
PR-1000	<b>0180</b>	\$589.40	

<b>INGERSOLL-RAND</b>	[ I-R ]		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
MW-175	<b>0280</b>	\$99.23	
MW-250	<b>0285</b>	\$107.20	
MW-250C	<b>0286</b>	\$129.05	
MT-6520 (crawler)	<b>0300</b>	\$320.74	
MW-6520	<b>0305</b>	\$231.38	
MW-6520HC	<b>0310</b>	\$297.19	
MT-7000	<b>0315</b>	\$405.81	



**WIRTGEN****[ WIRT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
300VC	<b>0380</b>	\$38.53
1000VC	<b>0390</b>	\$147.05
1900DC	<b>0395</b>	\$341.84
2000VC	<b>0400</b>	\$332.58
2100VC	<b>0402</b>	\$429.41
2200VC	<b>0405</b>	\$560.46
3500VC	<b>0410</b>	\$573.00
4200VC	<b>0420</b>	\$590.49

**PUMPS, WATER HOSE****[ PUMWA ]****DELAY FACTOR = 0.36****OVERTIME FACTOR = 0.68**

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>	\$3.60
0.6 (10)	1.3 (20)	<b>010-020</b>	\$5.56
1.3 (20)	1.9 (30)	<b>020-030</b>	\$6.54
1.9 (30)	3.2 (50)	<b>030-050</b>	\$23.93
3.2 (50)	7.9 (125)	<b>050-125</b>	\$28.29
7.9 (125)	15.8 (250)	<b>125-250</b>	\$33.36

**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>	\$0.08
60 (2.5)	80 (3)	<b>2.5-3.5</b>	\$0.13
80 (3)	100 (4)	<b>3.5-4</b>	\$0.18
100 (4)	150 (6)	<b>4-6</b>	\$0.30

**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>	\$0.10
90 (3.5)	100 (4)	<b>3.5-4</b>	\$0.15
100 (4)	150 (6)	<b>4-6</b>	\$0.20

**ROLLERS, TANDEM STEEL WHEELS****[ ROL-2 ]****DELAY FACTOR = 0.11****OVERTIME FACTOR = 0.91**

Includes all attachments and accessories.

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BW-4AS	<b>1150</b>	\$24.61
BW-6AS	<b>1155</b>	\$26.19
BW-10AS	<b>1160</b>	\$44.67
BW-12AS	<b>1165</b>	\$45.43

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
S3-5B	<b>2500</b>	\$32.20
S8-12A	<b>2520</b>	\$42.47
S10-14A	<b>2525</b>	\$43.22

**FERGUSON****[ FERG ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
3-5 ton	<b>4048</b>	\$19.78
3-5A	<b>4048A</b>	\$20.97
4-6A	<b>4142A</b>	\$21.11
5-8 ton	<b>4236</b>	\$47.08
5-8A	<b>4240</b>	\$36.04
8-12 ton	<b>4424</b>	\$37.32
8-12B	<b>4424B</b>	\$39.40
8-12A	<b>4430</b>	\$37.00
10-14 ton	<b>4450</b>	\$38.19
10-14A	<b>4455</b>	\$37.51
10-14B	<b>4455B</b>	\$39.95

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
4-6 ton roll-o-static	<b>4650</b>	\$31.00
S4-6A, S4-6B	<b>4670</b>	\$33.49
5-8 ton roll-o-static	<b>4800</b>	\$36.15
S5-8A	<b>4820</b>	\$38.73
8-10.5 ton roll-o-static	<b>4988</b>	\$36.78
S8-10.5A	<b>5000</b>	\$39.41
8-12 ton roll-o-static	<b>5176</b>	\$37.08
S8-12A	<b>5190</b>	\$40.04

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
C 330A 3-5 ton	<b>6520</b>	\$33.25
C 330B 3-5 ton (Hypac)	<b>6520B</b>	\$25.75
C 330A 4-6 ton	<b>6525</b>	\$34.57
C 330B 4-6 ton (Hypac)	<b>6526</b>	\$27.83
C 340A 5-8 ton	<b>6530</b>	\$40.68
C 340A 8-10 ton	<b>6540</b>	\$41.22
C 340B 5-8 ton	<b>6545</b>	\$36.27

C 340C 5-8 ton (Hypac)	6546	\$38.64
C 340B 8-10 ton	6548	\$36.96
C 340C 8-10 ton (Hypac)	6549	\$39.10
C 350B 8-12 ton	6710	\$42.09
C 350B 10-14 ton	6740	\$42.58
C 350C 8-12 ton	6750	\$38.21
C 350C 10-14 ton	6755	\$38.89
C 350D 8-12 ton	6757	\$39.64

**INGRAM [ INGM ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
4-6 ton FB	6900	\$25.25
5-6.5 ton FB	6965	\$26.75
8-12 ton HB	7175	\$37.16
10-14 ton HB	7275	\$37.75

**REXNORD [ RXND ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
3-5 ton	8566	\$24.19
4-6 ton	8572	\$24.76
5-8 ton	8578	\$54.90
7-10 ton	8584	\$55.10
8-12 ton	8590	\$55.44
10-14 ton	8596	\$55.77

**ROLLERS, RUBBER TIRE, SELF PROPELLED [ ROLRT ]**

**DELAY FACTOR = 0.16 OVERTIME FACTOR = 0.86**  
Includes all attachments and accessories.

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BW 20R	2624	\$40.72

**CATERPILLAR [ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
PS 110	3460	\$41.43
PS 130	3465	\$40.85
PS 180	3470	\$43.01
PS 200B	3480	\$54.29

**DYNAPAC [ DYPC ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
CP 15	3500	\$39.81
CP 21	3510	\$49.22
CP 27	3520	\$63.41

**GALION [ GALN ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
3500	4310	\$41.21
P 3000	4315	\$37.78
P 3500A	4320	\$41.56

**HYSTER [ HYST ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
C 530A	5401	\$40.74
C 550A	5494	\$45.79

**ROLLER-TAMPING, SEGMENTED, SHEEPSFOOT, SELF PROPELLED [ ROTAM ]**

**DELAY FACTOR = 0.10 OVERTIME FACTOR = 0.92**  
Includes all attachments and accessories.

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
K 300	1630	\$80.25
K 301	1635	\$90.17
K 401	1638	\$106.89

**CATERPILLAR [ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
815	2300	\$93.89
815B	2310	\$138.66
815F	2320	\$151.07
825B	2500	\$157.73
825C	2510	\$205.36
835	2700	\$200.76

**RAYGO [ RAGO ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
30	6490	\$78.36
45	6500	\$118.57
RAM PAK 45	6505	\$127.20

**REXNORD [ RXND ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
3-30	7120	\$94.37
3-35 PACTOR	7127	\$115.37
3-45 PACTOR	7130	\$147.24
3-50, 3-50A PACTOR	7140	\$163.87
3-55, 3-55B PACTOR	7150	\$197.11

**ROLLERS-TAMPING, SEGMENTED, [ ROTAT ]  
SHEEPSFOOT, TOWED**

**DELAY FACTOR = 0.45                      OVERTIME FACTOR = 0.63**

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>	\$1.96
over 1220 mm (4') - not over 1520 mm (5')	<b>4X5</b>	\$2.22
over 1520 mm (5')	<b>5</b>	\$4.03

**DOUBLE DRUM UNIT                      [ DDRU ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
1220 mm x1220 mm (4'X4') & under, each	<b>4X4</b>	\$4.74
over 1220 mm (4') - not over 1520 mm (5'), each	<b>4X5</b>	\$14.36
over 1520 mm (5'), each	<b>5</b>	\$26.47

**ROLLERS, VIBRATORY, SELF [ ROVIB ]  
PROPELLED**

**DELAY FACTOR = 0.17                      OVERTIME FACTOR = 0.85**

Includes all attachments and accessories.

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BW 210	<b>2060</b>	\$61.61
BW 210A	<b>2070</b>	\$63.57
BW 213	<b>2080</b>	\$62.69
BW 214	<b>2090</b>	\$64.41

**BOMAG                                      [ BMAG ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
BW 35	<b>0700</b>	\$6.54
BW 60, 60S	<b>0800</b>	\$10.05
BW 65, 65S	<b>0900</b>	\$6.99
BW 75, 75S	<b>1000</b>	\$11.23
BW 85T	<b>1200</b>	\$19.90
BW 90	<b>1300</b>	\$13.08
BW 100AD-3	<b>1325C</b>	\$33.49
BW 120AD	<b>1350</b>	\$33.98
BW 142PD	<b>1359</b>	\$39.46
BW 151AD	<b>1365</b>	\$56.79
BW 170AD, D	<b>1380</b>	\$49.62
BW 172AD, D	<b>1385</b>	\$49.97
BW 202AD	<b>1400</b>	\$77.68

**BROS                                        [ BROS ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
VM 255	<b>2023</b>	\$50.16
VM 268, VM 268H	<b>2024</b>	\$61.78
VM 278	<b>2025</b>	\$94.46

**CASE                                        [ CASE ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
50B	<b>2228</b>	\$7.23
W 251	<b>2400</b>	\$23.95
252, W 252	<b>2405</b>	\$31.04
752, W 752	<b>2450</b>	\$54.11
1102, W 1102	<b>2500</b>	\$71.30
1102D, W 1102D	<b>2505</b>	\$72.44
602D	<b>2510</b>	\$48.98
752B	<b>2520</b>	\$56.96

**CATERPILLAR                              [ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
CB 54	<b>7000</b>	\$97.12
CS 56	<b>7020</b>	\$106.77
CB 64	<b>7400</b>	\$112.20
CB 214	<b>8025</b>	\$30.09
CB 214B	<b>8026</b>	\$31.28
CB 224	<b>8030</b>	\$31.17
CB 224B	<b>8031</b>	\$33.10
CB 224C	<b>8031C</b>	\$33.88
CB 224E	<b>8031E</b>	\$36.45
CB 314	<b>8035</b>	\$32.87
CP 323 padfoot drum	<b>8040</b>	\$53.12
CS 323 smooth drum	<b>8042</b>	\$51.45
CB 414	<b>8045</b>	\$51.08
CS 431	<b>8050</b>	\$47.38
CS 431B	<b>8051</b>	\$64.72
CP 433 padfoot drum	<b>8055</b>	\$53.71
CP 433B padfoot drum	<b>8056</b>	\$70.90
CP 433E	<b>8056E</b>	\$85.66
CS 433 smooth drum	<b>8060</b>	\$54.04
CS 433B smooth drum	<b>8061</b>	\$68.02
CB 434	<b>8062</b>	\$59.12
CB 434D	<b>8062D</b>	\$71.90
CB 514	<b>8065</b>	\$64.83
CB 534	<b>8067</b>	\$83.32
CB 534C	<b>8067C</b>	\$81.21
CB 534D OR XW	<b>8067D</b>	\$103.05
CS 551	<b>8070</b>	\$90.79
CP 553 padfoot drum	<b>8075</b>	\$95.46
CS 553 smooth drum	<b>8080</b>	\$91.99
CP 563 padfoot drum	<b>8082</b>	\$97.99
CS 563 smooth drum	<b>8083</b>	\$94.23
CS 563C	<b>8083C</b>	\$99.65
CB 614	<b>8085</b>	\$101.53
CB 634	<b>8095</b>	\$100.14
CB 634C	<b>8095C</b>	\$101.36

<b>DYNAPAC</b>			<b>[ DYPC ]</b>			<b>HYSTER</b>			<b>[ HYST ]</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>
LR 90	2401	\$14.27	C 612B	3450	\$55.65						
A 36V, A 36D	2405	\$34.41	C 610A	3500	\$41.90						
CA 12	2409A	\$45.46	C 610B	3540	\$53.91						
CA 12D	2409B	\$38.98	C 615B	3562	\$56.00						
CA 12PD	2409E	\$39.46	C 617B	3563	\$56.50						
CA 12PDB strikeoff blade	2409H	\$37.60	C 620B	3566	\$55.40						
CA 15	2410	\$60.44	C 625B	3570	\$57.09						
CA 15A	2420	\$53.41	C 627B	3572	\$57.76						
CA 15D	2421	\$63.85	C 727A	3572E	\$81.13						
CA 20D	2422	\$52.56	C 748A (Hypac/Hyster)	3572F	\$35.92						
CA 15PD	2425	\$54.16	C 766A	3572G	\$71.92						
CA 25	2430	\$77.51	C 766B (Hypac/Hyster)	3572H	\$86.44						
CA 25S	2440	\$75.80	C 850A	3572J	\$86.09						
CA 25A, CA 25D	2450	\$80.47	C 850B (Hypac/Hyster)	3572K	\$100.77						
CA 25PD	2455	\$83.36	C 852A	3572N	\$91.52						
CA 25T	2460	\$69.79	C 852B (Hypac/Hyster)	3572P	\$104.21						
CA 30	2462	\$81.68	C 860A	3572S	\$90.24						
CA 30D	2464	\$86.10	C 860B (Hypac/Hyster)	3572T	\$98.59						
CA 51S, CA 51D	2466	\$101.92	<b>INGERSOLL-RAND</b>								
CA 55D	2468	\$104.74	<b>[ I-R ]</b>								
CA 151PDB	2469	\$74.91	<u>Model</u>	<u>Code</u>	<u>Rate</u>						
CC 10, CC 10 series II	2470	\$30.86	DD 22	3565	\$39.86						
CC 10A	2472	\$26.81	DD 23	3570	\$29.50						
CC 102	2472C	\$33.12	DD 24	3572	\$39.04						
CC 12	2472E	\$33.87	DA 30	3573	\$31.00						
CC 14	2473	\$48.77	DD 35	3573C	\$32.46						
CC 21	2474	\$50.50	DA 40	3573E	\$55.54						
CC 21 II	2474B	\$53.56	DA 41	3573G	\$57.86						
CC 211	2474C	\$61.82	DD 34HF	3573HF	\$48.03						
CC 42 II Dynatronic	2475	\$81.33	DA 48	3573M	\$77.03						
CC 42A	2476	\$80.28	DA 50	3574	\$77.79						
CC 50	2482	\$88.11	DD 65	3574A	\$60.30						
CC 50A	2488	\$99.89	DF 84	3574B	\$127.02						
CC 50PD	2488E	\$156.13	DS 84	3574C	\$123.82						
CC 50S	2489	\$148.10	DD 90	3574D	\$83.66						
DD 18	2498	\$12.32	DD 110	3574F	\$92.70						
300V	2499E	\$16.02	DD 130	3574H	\$123.17						
2100V	2499H	\$15.22	DD 145	3574J	\$105.74						
<b>ESSICK</b>	<b>[ ESIK ]</b>		SPA 56	3810	\$60.11						
<u>Model</u>	<u>Code</u>	<u>Rate</u>	SP 48	3880	\$58.31						
VR 30RE	2700	\$9.34	SP 48DD	3885	\$59.89						
VR 42RE	2820	\$23.84	SPF 48	3890	\$62.15						
V 30WR, V 30W2-R	2902	\$10.20	SPF 48B	3892	\$63.35						
			SP 54	4000	\$59.41						
			SP 54DD	4005	\$61.39						
			SPA 54	4010	\$60.29						
			SPF 54	4020	\$65.69						
			SP 56	4030	\$69.50						

SP 56DD	4035	\$72.34	<b>RAYGO</b>	<b>[ RAGO ]</b>	
SP 56DH	4037	\$97.99	<u>Model</u>	<u>Code</u>	<u>Rate</u>
SPF 56	4040	\$74.21	1-36 REBEL	4805	\$14.18
SPF 56B	4050	\$77.08	2-36 ROMPER	4810	\$30.96
SPF 56DH	4080	\$99.45	2-66 RANGER	4820	\$79.21
SPF 56DHB	4090	\$103.28	2-84 RANGER	4830	\$109.92
SP 60	4100	\$124.10	220A RASCAL	4840	\$46.32
SP 84	4105	\$102.69	320A RASCAL	4876	\$55.87
SP 60DD	4110	\$145.65	320S RASCAL	4890	\$53.18
SPF 60	4120	\$150.24	400A RASCAL	5010	\$55.74
SPF 60B	4130	\$158.09	404B RUSTLER	5110	\$61.01
SPF 60C	4132	\$138.10	410A RASCAL	5150	\$59.26
SPF 84	4133	\$104.37	600A RASCAL	5220	\$75.07
SPF 84B	4134	\$108.76	4000 RASCAL	5235	\$81.71
SD 40D	4138	\$53.43	4200 RASCAL	5236	\$87.59
SD 40F w/ blade	4138FB	\$54.92	4404 RUSTLER	5236E	\$32.61
SD 70	4139	\$61.26	<b>RAMMAX</b>	<b>[ RAMX ]</b>	
SD 100	4140	\$78.01	<u>Model</u>	<u>Code</u>	<u>Rate</u>
SD 100D	4140D	\$94.28	P 33/24	4605	\$18.50
SD 100F	4140F	\$94.82	P 33/24 w/ remote	4606	\$17.81
SD 115D	4141D	\$116.81	P 51	4625	\$70.69
SD 150D	4143D	\$125.84	S 51	4630	\$36.83
<b>KOEHRING-BOMAG</b>	<b>[ KOBO ]</b>		P 47	5290	\$35.73
<u>Model</u>	<u>Code</u>	<u>Rate</u>	<b>SAKAI</b>	<b>[ SAKI ]</b>	
BW 120AC	4168E	\$33.47	<u>Model</u>	<u>Code</u>	<u>Rate</u>
BW 120AD	4169	\$33.95	SV 70	8025	\$56.09
BW 121AD	4193	\$30.49	SV 70D	8026	\$58.39
BW 130AD	4193E	\$35.75	SV 91	8050	\$83.94
BW 140AD	4194	\$55.45	SV 91D	8051	\$85.88
BW 141AC	4194B	\$54.75	SV 200D	8060	\$42.57
BW 141AD	4194E	\$49.88	<b>TAMPO</b>	<b>[ TAMP ]</b>	
BW 142D	4194H	\$38.00	<u>Model</u>	<u>Code</u>	<u>Rate</u>
BW 172	4212	\$47.15	RP 16D (HD)	5990	\$53.53
BW 172D	4212E	\$49.67	RP 28D	5995	\$71.44
BW 213D	4237	\$78.56	RP 48D	6110	\$92.95
BW 214D	4238	\$96.47	RP 58D	6115	\$85.26
BW 215D	4240	\$95.11	RS 16 (HD)	6170	\$50.70
BW 217D	4242	\$119.65	RS16A (HD)	6180	\$52.62
BW 220D	4250	\$89.41	RS 16D (HD)	6185	\$53.11
<b>MIKASA</b>	<b>[ MIKA ]</b>		RS 28C	6315	\$67.39
<u>Model</u>	<u>Code</u>	<u>Rate</u>	RS 28D	6320	\$68.60
MDR 7DW	4404	\$8.28	RS 58D	6327	\$83.82
MDR 9G	4405	\$11.89	RS 156A	6340	\$56.06
MDR T38S	4407	\$8.42	RS 166A	6350	\$73.65
MRV 10GA	4409	\$13.39	RS 188A	6370	\$93.84
			RS 210	6400	\$72.88

**WACKER [ WACK ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
R 900	<b>7850</b>	\$20.76
R 1000	<b>7855</b>	\$33.30
W 55T	<b>7860</b>	\$10.53
W 74L, W 74T	<b>7880</b>	\$10.41
W 74	<b>7890</b>	\$10.08
W 75	<b>7900</b>	\$10.65
WDH 84	<b>7910</b>	\$14.68
WDH 86-110	<b>7912</b>	\$18.37
WHK 90, WHK 90L	<b>7915</b>	\$18.04

**SHOVELS & CRANES CRAWLER [ S&CCL ]**

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

Includes all attachments and accessories when used as a crane, clamshell, dragline or for pile driving (not including leads or driving equipment).

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
LS 78	<b>4702</b>	\$66.32
LS 78 pipeliner	<b>4724</b>	\$68.29
LS 98	<b>4826</b>	\$74.94
LS 98 pipeliner	<b>4852</b>	\$81.02
LS 98A	<b>4924</b>	\$75.99
LS 108B	<b>4980</b>	\$85.06
LS 108D	<b>4981</b>	\$110.79
LS 118	<b>4998</b>	\$122.49
LS 218H	<b>5010</b>	\$203.41
LS 318	<b>5012</b>	\$122.21
LS 338	<b>5020</b>	\$133.17
LS 518	<b>5124</b>	\$196.19

**MANITOWOC [ MTWC ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
222EX (WEST)	<b>5600</b>	\$246.62
2900 WC	<b>5764</b>	\$108.76
3000 W	<b>5812</b>	\$136.56
3900B (100 ton)	<b>6036</b>	\$178.97
3900 W VICON series 2	<b>6132</b>	\$236.99
4000 W VICON	<b>6180</b>	\$214.10
4100 W VICON series 1	<b>6196</b>	\$323.17
4100 W VICON series 2	<b>6198</b>	\$332.28
4600 VICON series 1	<b>6328</b>	\$485.36
4600 VICON series 3	<b>6332</b>	\$551.48

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
535	<b>7716</b>	\$108.17
550	<b>7748</b>	\$114.09
670 WLC	<b>7892</b>	\$133.31

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

**DELAY FACTOR = 0.22 OVERTIME FACTOR = 0.82**

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>	\$110.11
5530	<b>1080</b>	\$191.49
7450	<b>1130</b>	\$107.17
7460	<b>1140</b>	\$151.93
7530	<b>1170</b>	\$170.41
8460	<b>1178</b>	\$216.27
8470	<b>1179</b>	\$343.20

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
HC 48A	<b>4332</b>	\$65.96
HC 108B	<b>4960</b>	\$79.87
HC 108C	<b>4970</b>	\$115.97
HC 138	<b>4992</b>	\$86.13
HC 138A	<b>4995</b>	\$185.64
HC 218	<b>5050</b>	\$112.90
HC 218A	<b>5051</b>	\$184.72
HC 228H	<b>5054</b>	\$228.17
HC 238A, 238B	<b>5065</b>	\$188.29

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
440 TC	<b>7240</b>	\$82.65
650A TC	<b>7720</b>	\$116.76
670 TC	<b>7790</b>	\$120.25
790 TC	<b>7880</b>	\$112.27
8115A TC	<b>7950</b>	\$154.05

**SANBLASTING EQUIPMENT [ SANBL ]**

**DELAY FACTOR = 0.52 OVERTIME FACTOR = 0.53**

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>	\$1.71
159 (350)	272 (600)	<b>035-060</b>	\$2.26
272 (600)	454 (1000)	<b>060-100</b>	\$2.28
454 (1000)	680 (1500)	<b>100-150</b>	\$2.87
680 (1500)	907 (2000)	<b>150-200</b>	\$3.19

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

**DELAY FACTOR = 0.12                      OVERTIME FACTOR = 0.87**

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>	\$2.87

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

**DELAY FACTOR = 0.16                      OVERTIME FACTOR = 0.84**

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>	\$3.41
7.5 (10)	14.9 (20)	<b>10-20</b>	\$7.67
14.9 (20)	24.6 (33)	<b>20-33</b>	\$15.24
24.6 (33)	33.6 (45)	<b>33-45</b>	\$17.59
33.6 (45)	48.5 (65)	<b>45-65</b>	\$21.27

**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 = 0.14                      OVERTIME FACTOR = 0.88**

Includes all attachments and accessories.

**CATERPILLAR [ CAT ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
613	<b>1395</b>	\$66.71
613B	<b>1400</b>	\$74.69
613C	<b>1402</b>	\$93.49
615	<b>1415</b>	\$128.96
615C	<b>1416</b>	\$140.88
621B cushion hitch	<b>1680</b>	\$164.05
623B	<b>1700</b>	\$169.16
623E	<b>1702</b>	\$200.47
623F	<b>1703</b>	\$209.92
627B push pull	<b>1770</b>	\$217.36

627E non push-pull	<b>1772</b>	\$232.07
627E push-pull	<b>1773</b>	\$236.53
631C 67M5012 serial	<b>2170</b>	\$187.58
631D	<b>2180</b>	\$231.90
631E	<b>2185</b>	\$254.22
633C non cushion hitch	<b>2305</b>	\$183.54
633C cushion hitch	<b>2315</b>	\$183.32
633C 66M693 serial	<b>2320</b>	\$192.72
633D	<b>2330</b>	\$241.21
637 cushion, non-push-pull	<b>2375</b>	\$276.83
637 non-cushion, push-pull	<b>2410</b>	\$278.96
637D non push-pull	<b>2460</b>	\$337.62
637D push-pull	<b>2470</b>	\$341.34
639D	<b>2475</b>	\$350.50
637E	<b>2476</b>	\$368.82
637E push-pull	<b>2477</b>	\$373.91
641B non cushion hitch	<b>2620</b>	\$233.73
641B cushion hitch	<b>2655</b>	\$274.44
651B non cushion hitch	<b>2935</b>	\$279.72
651B cushion hitch	<b>2970</b>	\$282.02
651E	<b>2975</b>	\$347.54
657B non cushion, non p-p	<b>3360</b>	\$443.39
657B cushion, push-pull	<b>3370</b>	\$449.48
657E non push-pull	<b>3375</b>	\$523.00
657E push-pull	<b>3380</b>	\$540.80
660B	<b>3470</b>	\$259.73
666B	<b>3600</b>	\$414.04

**JOHN DEERE**

**[ DEER ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
JD 760A	<b>3845</b>	\$66.33
JD 762	<b>3860</b>	\$81.98
JD 762A	<b>3865</b>	\$85.94
JD 762B	<b>3866</b>	\$100.56
JD 860A	<b>3920</b>	\$97.45
JD 860B	<b>3930</b>	\$102.34
JD 862	<b>3940</b>	\$121.31
JD 862B	<b>3942</b>	\$148.02

**INTERNATIONAL**

**[ INTL ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
412B	<b>5631</b>	\$82.87
431B	<b>5637</b>	\$161.58
433B	<b>5643</b>	\$235.76

<b>TEREX</b>	<b>[ TERX ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
S 11EB	<b>8245</b>	\$66.40	
S 23E 33TOT-H-93SH, elev	<b>8250</b>	\$156.23	
S 24 49LOT-76SH serial	<b>8260</b>	\$200.10	
S 24B 023-024 serial	<b>8270</b>	\$242.30	
S 24C	<b>8275</b>	\$263.06	

<b>WABCO</b>	<b>[ WAB ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
101F	<b>8570</b>	\$76.22	
101G	<b>8575</b>	\$76.99	
111A	<b>8640</b>	\$72.50	
222G	<b>8700</b>	\$142.18	
222H	<b>8704</b>	\$160.66	

<b>TRACTORS, CRAWLER</b>	<b>[ TRACC ]</b>
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**DELAY FACTOR = 0.15**      **OVERTIME FACTOR = 0.87**  
 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.

<b>CASE</b>	<b>[ CASE ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
350	<b>1820</b>	\$30.28	
350B	<b>1825</b>	\$32.21	
450	<b>1868</b>	\$26.18	
450B	<b>1869</b>	\$29.80	
450C	<b>1869E</b>	\$33.59	
475	<b>1870</b>	\$43.50	
550	<b>2000</b>	\$35.14	
650	<b>2100</b>	\$41.49	
850	<b>2128</b>	\$35.32	
850B	<b>2130</b>	\$38.20	
850C	<b>2135</b>	\$41.85	
850D	<b>2140</b>	\$44.22	
1150B	<b>2250</b>	\$52.95	
1150C	<b>2255</b>	\$58.16	
1150D	<b>2257</b>	\$59.91	
1150E	<b>2258</b>	\$62.05	

<b>CATERPILLAR</b>	<b>[ CAT ]</b>		
<u>Model</u>	<u>Code</u>	<u>Rate</u>	
D-3	<b>2340</b>	\$30.66	
D-3B	<b>2345</b>	\$33.91	
D-3 LGP	<b>2350</b>	\$31.26	
D-3B LGP	<b>2355</b>	\$35.09	
D-3B SA	<b>2370</b>	\$37.84	
D-3C	<b>2380</b>	\$35.99	
D4C Series III	<b>2450</b>	\$46.10	
D-4D	<b>2655</b>	\$36.98	

D-4E direct drive	<b>2660</b>	\$38.87
D-4E power shift	<b>2665</b>	\$40.08
D-4H	<b>2670</b>	\$50.57
D-4H LGP	<b>2675</b>	\$50.44
D-4H Series II	<b>2680</b>	\$51.70
D-4E SA	<b>2772</b>	\$46.98
D-4E LGP power shift	<b>2780</b>	\$40.27
D-4E LGP direct drive	<b>2782</b>	\$40.27
D-4G XL	<b>2790XL</b>	\$46.86
D-5	<b>3194</b>	\$53.18
D-5B power shift	<b>3206</b>	\$56.23
D-5B SA	<b>3325</b>	\$61.27
D-5B LGP	<b>3345</b>	\$58.74
D-5C	<b>3346</b>	\$50.04
D-5H	<b>3347</b>	\$67.17
D-5H Series II	<b>3348</b>	\$70.89
D-5H LGP	<b>3350</b>	\$70.02
D-6C direct drive	<b>3645</b>	\$68.94
D-6C power shift	<b>3688</b>	\$69.54
D-6C LGP	<b>3710</b>	\$71.91
D-6D	<b>3720</b>	\$79.57
D-6D SA	<b>3725</b>	\$89.37
D-6D LGP	<b>3730</b>	\$80.02
D-6H	<b>3732</b>	\$90.51
D-6H Series II	<b>3733</b>	\$94.82
D-6H LGP	<b>3735</b>	\$94.80
D-6M LGP	<b>3745</b>	\$88.10
D-6N XL	<b>3755</b>	\$90.79
D-6R DS	<b>3800</b>	\$100.29
D-6R XL	<b>3815</b>	\$105.32
D-7G	<b>4180</b>	\$119.83
D-7G LGP	<b>4200</b>	\$115.93
D-7G SA	<b>4210</b>	\$127.45
D-7H	<b>4215</b>	\$123.83
D-7H Series II	<b>4216</b>	\$132.65
D-7H LGP	<b>4220</b>	\$129.91
D-8K	<b>4858</b>	\$158.99
D-8L	<b>4862</b>	\$191.00
D-8L SA	<b>4863</b>	\$206.69
D-8N	<b>4864</b>	\$171.42
D-8R	<b>4870</b>	\$188.62
D-8T	<b>4880</b>	\$235.36
D-9H	<b>5160</b>	\$211.70
D-9L	<b>5165</b>	\$253.45
D-9N	<b>5170</b>	\$216.81
D-9R	<b>5175</b>	\$253.86
D-10	<b>5220</b>	\$388.63
D-10N	<b>5225</b>	\$313.60
D-10R	<b>5227</b>	\$350.17
D-11N	<b>5230</b>	\$488.62





**TRACTORS, RUBBER TIRE, [ TRACS ]  
INDUSTRIAL, FARM & SKID STEER**

**DELAY FACTOR = 0.12 OVERTIME FACTOR = 0.89**

**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>	\$27.23
auger, w/ or w/o loader or dozer	<b>B</b>	\$27.68
backhoe, w/ or w/o loader or dozer	<b>C</b>	\$29.35

**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>	\$36.47
auger, w/ or w/o loader or dozer	<b>B</b>	\$37.04
backhoe, w/ or w/o loader or dozer	<b>C</b>	\$38.77

**TRAFFIC CONTROL & SAFETY DEVICES [ TRAF A ]  
(HOURLY RATES)**

**DELAY FACTOR = 0.36 OVERTIME FACTOR = 0.70**

**CHANGEABLE MESSAGE SIGN [ CMSN ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Generator	<b>GEN1</b>	\$15.14
Generator w/ cell remote	<b>GEN2</b>	\$16.52
Solar	<b>SOL1</b>	\$10.66
Solar w/ cell remote	<b>SOL2</b>	\$12.04

**FLASHING ARROW SIGN [ FLAS ]**

Including supplies, replacements and servicing.

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Roof mounted	<b>RM</b>	\$0.94
Trailer mounted	<b>TM</b>	\$3.48

**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>	\$0.52
each without flasher	<b>A2</b>	\$0.27
each	<b>B3</b>	\$1.17

**(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>	\$9.37
700 mm (28") high, per 100	<b>B100</b>	\$16.27
700 mm (28") high w/ refl sleeve, per 100	<b>D100</b>	\$25.20
1,050 mm (42") high w/ refl sleeve, per 100	<b>E100</b>	\$41.92

**(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>	\$26.68

**(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>	\$6.53

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
portable 12 volt	<b>12V</b>	\$6.67

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
incl sign, stand & 3 flags	<b>EACH</b>	\$3.01

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

<u>Model</u>	<u>Code</u>	<u>Rate</u>
Del. drum w/ base per 100	<b>100</b>	\$66.51

**TRAILERS, EQUIPMENT, LOW BED [ TRAIL ]**

**DELAY FACTOR = 0.43 OVERTIME FACTOR = 0.65**

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 ]**

Model	Code	Rate
2 axle		
4 Tires per axle	100	\$15.67
8 Tires per axle	200	\$19.76

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

Model	Code	Rate
3 axle		
4 Tires per axle	300	\$21.04
8 Tires per axle	400	\$24.39

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

Model	Code	Rate
4 axle		
4 Tires per axle	500	\$33.75
8 Tires per axle	600	\$41.87

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

Model	Code	Rate
6 axle		
8 Tires per axle	700	\$67.08

**TRAILERS, EQUIPMENT, TILT BED [ TRAIT ]**

**DELAY FACTOR = 0.43 OVERTIME FACTOR = 0.65**

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

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

OVER	TO	Code	Rate
0	1.8 (2)	00-02	\$0.83
1.8 (2)	3.6 (4)	02-04	\$0.89

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

OVER	TO	Code	Rate
3.6 (4)	5.4 (6)	04-06	\$1.48
7.3 (8)	9.1 (10)	08-10	\$4.59
9.1 (10)	10.9 (12)	10-12	\$5.29
10.9 (12)	12.7 (14)	12-14	\$5.95
12.7 (14)	14.5 (16)	14-16	\$6.61
14.5 (16)	16.3 (18)	16-18	\$6.39
16.3 (18)	18.1 (20)	18-20	\$6.17
18.1 (20)	20.0 (22)	20-22	\$7.07
20.0 (22)	22.7 (25)	22-25	\$6.87

**TRENCHING MACHINES [ TRENCH ]**

**DELAY FACTOR = 0.12 OVERTIME FACTOR = 0.90**

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

**BOBCAT [ BCAT ]**

Model	Code	Rate
T 116	2000	\$12.94
T 135	2010	\$29.85
T 136	2020	\$30.18
T 208	2030	\$6.70
3022	2040	\$30.63

**CASE [ CASE ]**

Model	Code	Rate
TL 70	9051	\$5.46
TL 100	9053	\$7.86
TL 120	9055	\$9.48
TL 200	9070	\$9.65
16+4	9120	\$13.96
25+4	9170	\$19.34
25 + 4 XP	9171	\$24.52
30+4 standard	9224	\$27.31
DH 4	9255	\$36.78
DH 4B	9256	\$40.36
DH 5	9257	\$35.32
DH 5 QUAD	9259	\$36.14
DH 7	9261	\$41.80
360	9263	\$29.39
ROAD RUNNER 380	9277	\$40.11
TF 300	9374	\$18.37
TF 700	9398	\$24.84
TF 800	9405	\$32.35
TF 1000	9460	\$37.56
760	9465	\$38.80

**DITCH WITCH [ D-W ]**

Model	Code	Rate
R 30	5390	\$25.06
R 36D	5400	\$31.04
R 40	5432	\$32.48
R 65	5556	\$33.42
R 100	5565	\$80.34
V 30	5618	\$23.91
1410	5620	\$9.80
1420	5625	\$10.46
1500	5630	\$7.28
1620	5635	\$13.67
1810	5640	\$14.02
2020	5645	\$17.56

2200	5650	\$16.61
2300	5660	\$25.09
2310	5662	\$26.39
3210	5670	\$28.55
3210 Combo	5675	\$29.42
3500	5676	\$33.65
4010	5677	\$43.20
4010 Combo	5678	\$33.42
5010	5679	\$33.54
6510	5680	\$39.93
6510 Combo	5685	\$42.99

**MIDMARK [ MDMK ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
300 A	7945	\$24.87
321	7950	\$26.13
400 A	7955	\$31.76
440	7960	\$39.93

**VERMEER [ VERM ]**

<u>Model</u>	<u>Code</u>	<u>Rate</u>
CC-135	8350	\$87.23
M 220	8380	\$16.58
M 455 / M455A	8480	\$38.84
M 475	8570	\$41.04
M 475A	8571	\$46.58
M 485	8580	\$44.82
M 495	8585	\$72.83
T 300B, T 300A	8718	\$25.67
T 400C, T 400B, T 400A	8781	\$55.66
T 600D, C, B, A	8842	\$80.23
T 650	8843	\$135.01
T 800B, T 800A, T800	8870	\$128.51
T 800C	8871	\$140.26
T 850	8875	\$249.84
V 430	8950	\$29.28
V 430A	8951	\$32.88
V 434 / M 434	9000	\$28.24
V 440	9015	\$31.26
V 450	9017	\$36.87
V 454	9020	\$32.06
V 1550	9025	\$15.48

<b>TRUCK, TRUCK TRAILERS, EXCL. DUMP TRUCKS &amp; EQPT TRAIL</b>	<b>[ TRUCK ]</b>
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**DELAY FACTOR = 0.12                      OVERTIME FACTOR = 0.88**

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.

<b>TRUCKS</b>		<b>[ T&amp;TT ]</b>	
<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>00-06</b>	\$25.30
5443 (12000)	9072 (20000)	<b>06-12</b>	\$28.65
9072 (20000)	12701(28000)	<b>12-20</b>	\$37.19
12701 (28000)	16330 (36000)	<b>20-28</b>	\$39.41
16330 (36000)	21773 (48000)	<b>28-36</b>	\$45.04
21773 (48000)	27216 (60000)	<b>36-48</b>	\$60.39
27216(60000) & Over		<b>48-60</b>	\$66.35
		<b>60</b>	\$74.69

<b>TRUCKS, OFF-HIGHWAY</b>	<b>[ TRUOF ]</b>
----------------------------	------------------

**DELAY FACTOR = 0.22                      OVERTIME FACTOR = 0.80**

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.

<b>TRUCK OFF-HIGHWAY</b>		<b>[ TRU ]</b>	
<u>OVER</u>	<u>TO</u>	<u>Code</u>	<u>Rate</u>
9.1 (10)	13.6 (15)	<b>10-15</b>	\$49.46
16.3 (18)	20.0 (22)	<b>18-22</b>	\$88.38
20.0 (22)	24.5 (27)	<b>22-27</b>	\$110.40
24.5 (27)	29.0 (32)	<b>27-32</b>	\$126.19
29.0 (32)	36.3 (40)	<b>32-40</b>	\$171.48
36.3 (40)	49.9 (55)	<b>40-55</b>	\$254.50
49.9 (55)	60.8 (67)	<b>55-67</b>	\$285.79

**WELDING EQUIPMENT**

[ WELD ]

**DELAY FACTOR = 0.20****OVERTIME FACTOR = 0.83****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>	\$6.19
250	500	<b>250-500</b>	\$11.96
over	500	<b>500</b>	\$12.39

**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>	\$0.29

**TRUCKS, DUMP, ON-HIGHWAY**

[ TRUON ]

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

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>	\$51.07
3 axles	<b>3AXL</b>	\$67.69
4 axles	<b>4AXL</b>	\$76.90
5 axles	<b>5AXL</b>	\$85.28

**EXHIBIT P**  
**LOCATION MAP**

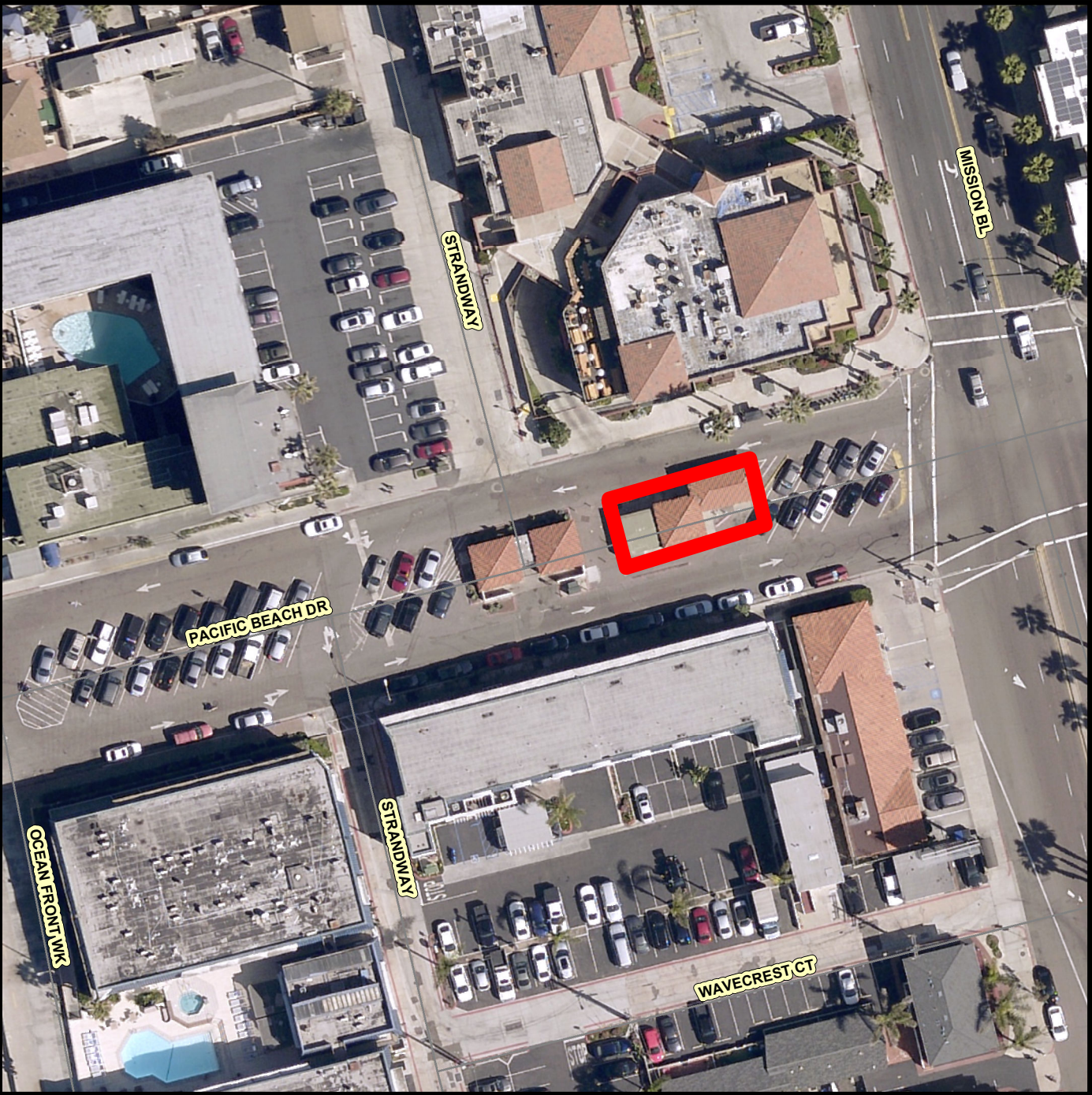
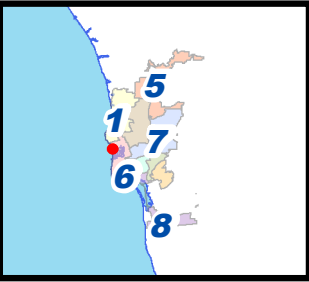


**Pump Station G Emergency Bypass Setup at 728 Pacific Beach Dr**

SENIOR ENGINEER  
Jong Choi  
619-533-5493

PROJECT MANAGER  
Junmin Pan  
619-533-6682

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



**Legend**

 Project Site



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**EXHIBIT Q**

**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 (ACRES)
  
  - b. HYDROLOGIC UNIT/WATERSHED: Penasquitos HU/Mission Bay Watershed
  
  - c. HYDROLOGIC SUBAREA NAME & NO: Scripps - 906.30
  
  - 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
  
    - WPPP  
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. CONTRACTOR SHALL RESTORE ALL TRENCHES ON THE PAVEMENT WORKED BY CITY FORCES AFTER FINAL CONNECTION.
11. 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.
12. POTHOLE ALL UTILITIES THAT CROSS PROPOSED WATER MAIN BEFORE TRENCHING
13. WHEN APPLICABLE, EXISTING UTILITY CROSSING AS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT EXACT.
14. 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 R**

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

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

The Public Utilities Department (PUD) has begun the installation of the Advanced Metering Infrastructure (AMI) technology as a new tool to enhance water meter reading accuracy and efficiency, customer service and billing, and to be used by individual accounts to better manage the efficient use of water. **All AMI devices shall be protected per Section 402-2, "Protection", of the 2021 Whitebook.**

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

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

- A. Endpoints, see Photo 1:

**Photo 1**



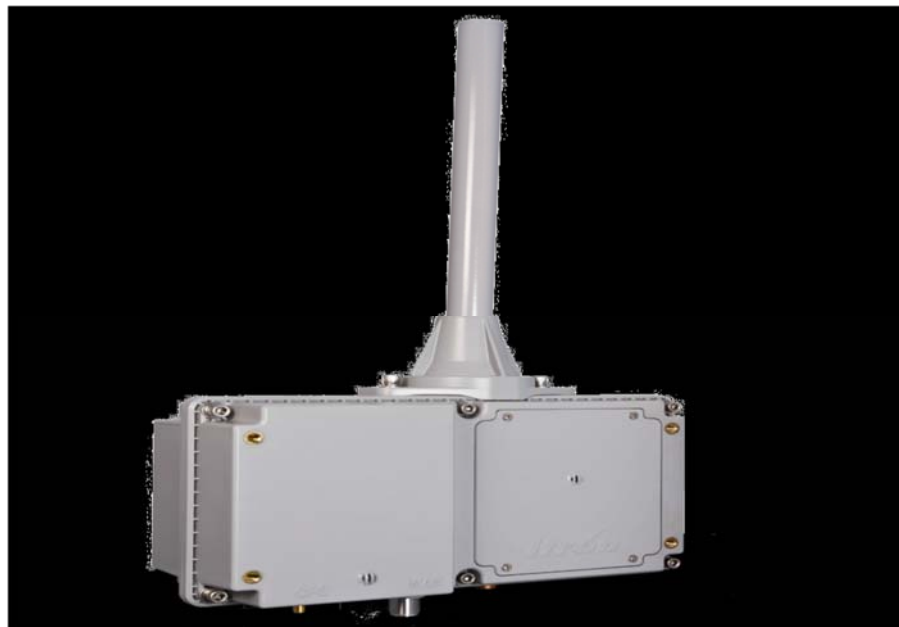
B. AMI Antenna attached to Endpoint (antenna not always required), see Photo 2:



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Network Devices, see Photo 3:

**Photo 3**



AMI endpoints transmit meter information to the AMI system and will soon be on the vast majority of meters in San Diego. These AMI devices provide interval consumption data to the PUD's Customer Support Division. If these devices are damaged or communication is interrupted, this Division will be alerted of the situation. The endpoints are installed in water meter boxes, coffins, and vaults adjacent to the meter. A separate flat round antenna may also be installed through the meter box lid. This antenna is connected to the endpoint via cable. The following proper installation shall be implemented when removing the lid to avoid damaging the antenna, cable, and/or endpoint. Photo 4 below demonstrates a diagram of the connection:

**Photo 4**



The AMI device ERT/Endpoint/Transmitter shall be positioned and installed as discussed in this Appendix. If the ERT/Endpoint/Transmitter is disturbed, it shall be re-installed and returned to its original installation with the end points pointed upwards as shown below in Photo 5.

**The PUD's code compliance staff will issue citations and invoices to you for any damaged AMI devices that are not re-installed as discussed in the Contract Document**

Photo 5 below shows a typical installation of an AMI endpoint on a water meter.

**Photo 5**

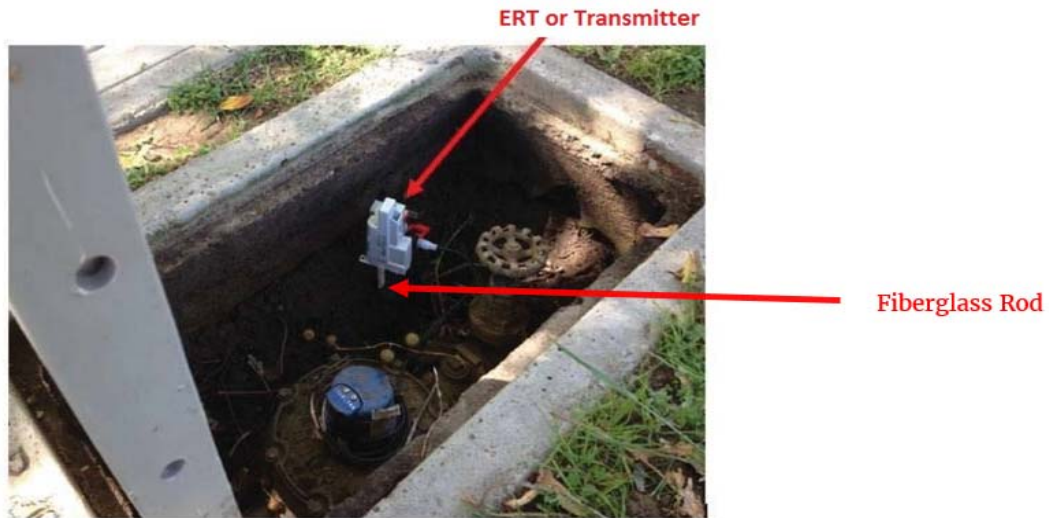


Photo 6 below is an example of disturbance that shall be avoided:

**Photo 6**





**You are responsible when working in and around meter boxes.** If you encounter these endpoints, use proper care and do not disconnect them from the registers on top of the water meter. If the lid has an antenna drilled through, do not change or tamper with the lid and inform the Resident Engineer immediately about the location of that lid. Refer to Photo 7 below:

**Photo 7**



Another component of the AMI system are the Network Devices. The Network Devices are strategically placed units (mainly on street light poles) that collect interval meter reading data from multiple meters for transmission to the Department Control Computer. **If you come across any of these devices on street lights that will be removed or replaced (refer to Photos 8 and 9 below), notify AMI Project Manager Arwa Sayed at (619) 362-0121 immediately.**

Photo 8 shows an installed network device on a street light. On the back of each Network Device is a sticker with contact information. See Photo 9. **Call PUD Water Emergency Repairs at 619-515-3525 if your work will impact these street lights.** These are assets that belong to the City of San Diego and you shall be responsible for any costs of disruption of this network.



**Photo 8**



**Network Device**

**Photo 9**



**If you encounter any bad installations, disconnected/broken/buried endpoints, or inadvertently damage any AMI devices or cables, notify the Resident Engineer immediately. The Resident Engineer will then immediately contact the AMI Project Manager, Arwa Sayed, at (619) 362-0121.**

**EXHIBIT S**

**SAMPLE CITY INVOICE**

