

CITY OF WHITTIER, ALASKA  
PURCHASING DIVISION  
Invitation For Bids

The City of Whittier desires to receive bids from Contractors to construct the Re-Power Well Houses #1, 2 & 3 project. The scope of work includes providing 3-phase 480V feeders for three existing well houses from a new 400A rated service. A 400A manual transfer switch utilizing individual quick connect receptacles and associated plugs and cables will serve a new 400A MDP used to serve well house feeders. An Owner-furnished 250kW generator will be used for standby service and providing matching plugs and cables and terminating at the generator. The individual feeders will terminate at new disconnects at each of the three existing well houses. Wiring in each well house will be modified to utilize the new feeder and re-route taps to serve individual circuits. Scope will include demolition of an existing overhead 3-phase secondary service lateral from the Whittier City Shop to the three well house structures, and other miscellaneous items of work. Coordination with Chugach Electric Association for new service and demolition is included in the work.

Bidding requirements and contract documents will be available electronically beginning September 16, 2016. Interested parties may download the documents from the City of Whittier website at: <http://whittieralaska.gov/rfp.html>

Bidder questions may be directed to Scott Korbe, Whittier Director of Public Works, phone number 907-240-2019.

A pre-bid conference will be held in the Whittier City Council Chambers (Whittier Street & Glacier Avenue), at 11:00 a.m. on September 21, 2016. All bidders are encouraged to attend. A site visit to the well houses will follow the pre-bid conference.

Sealed bids must be submitted to the City Clerk as specified in the bid documents. All bids and any bid amendments or withdrawals must be received prior to the bid opening. Bids shall be submitted on the forms furnished and must be in a sealed envelope marked as follows:

BID FOR:	CITY CLERK
	P.O. BOX 608
<u>RE-POWER WELL HOUSES #1,</u>	100 KENAI STREET, SUITE 109
<u>2 &amp; 3</u>	WHITTIER, ALASKA 99693

Bids will be opened publicly at 2:00 p.m. local time, at the Whittier City Offices, 100 Kenai Street, Suite 109, Whittier, Alaska on September 30, 2016.

The selection of the qualified bidder will be at the sole discretion of the City of Whittier, and the City reserves the right to reject any and all bids or to not award a contract if deemed in the best interest of the City. This solicitation does not commit the City of Whittier to pay any cost incurred in the preparation of the bid or to award any contract.

Bids shall not discriminate on the basis of race, color, national origin, or sex in the solicitation of sub-bids, award of subcontracts, or performance of the work.

The contract shall be let by the Whittier City Council to the lowest qualified responsive and responsible bidder.

Provisions of Alaska Title 36, Public Contracts, Laborers' and Mechanics' Minimum Rates of Pay, AS 36.05.010 and AS 36.05.030, are applicable to this contract.

By: Scott Korbe, Director of Public Works

Dated: September 16, 2016

**CITY OF WHITTIER, ALASKA**

**RE-POWER WELL HOUSES #1, 2 & 3**

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**SPECIFICATIONS AND CONTRACT DOCUMENTS**

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September 15, 2016

Prepared for:

**CITY OF WHITTIER  
P.O. Box 608  
Whittier, Alaska 99693**

Prepared by:

**CRW Engineering Group, LLC  
3940 Arctic Boulevard, Suite 300  
Anchorage, Alaska 99503**

**CITY OF WHITTIER, ALASKA**  
**RE-POWER WELL HOUSES #1, 2 & 3**

MASTER INDEX

- I. BIDDING REQUIREMENTS
  - Invitation For Bids
  - Required Documents
  - Bid Proposal
  - Bid Schedule
  - Bid Bond
  
- II. CONTRACT FORMS
  - Contract
  - Performance & Payment Bond
  - City of Whittier Business License Application
  
- III. SPECIAL PROVISIONS
  
- IV. CONSTRUCTION FORMS
  - Deviation Request (DR)
  - Substitution Request (SR)
  - Design Clarification/Verification Request (DC/VR)
  - Submittal Transmittal
  
- V. LABORERS' AND MECHANICS' MINIMUM RATES OF PAY
  
- VI. DRAWINGS

**CITY OF WHITTIER, ALASKA**  
**RE-POWER WELL HOUSES #1, 2 & 3**

**I.**

**BIDDING REQUIREMENTS**

CITY OF WHITTIER, ALASKA  
PURCHASING DIVISION  
Invitation For Bids

The City of Whittier desires to receive bids from Contractors to construct the Re-Power Well Houses #1, 2 & 3 project. The scope of work includes providing 3-phase 480V feeders for three existing well houses from a new 400A rated service. A 400A manual transfer switch utilizing individual quick connect receptacles and associated plugs and cables will serve a new 400A MDP used to serve well house feeders. An Owner-furnished 250kW generator will be used for standby service and providing matching plugs and cables and terminating at the generator. The individual feeders will terminate at new disconnects at each of the three existing well houses. Wiring in each well house will be modified to utilize the new feeder and re-route taps to serve individual circuits. Scope will include demolition of an existing overhead 3-phase secondary service lateral from the Whittier City Shop to the three well house structures, and other miscellaneous items of work. Coordination with Chugach Electric Association for new service and demolition is included in the work.

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Sealed bids must be submitted to the City Clerk as specified in the bid documents. All bids and any bid amendments or withdrawals must be received prior to the bid opening. Bids shall be submitted on the forms furnished and must be in a sealed envelope marked as follows:

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The selection of the qualified bidder will be at the sole discretion of the City of Whittier, and the City reserves the right to reject any and all bids or to not award a contract if deemed in the best interest of the City. This solicitation does not commit the City of Whittier to pay any cost incurred in the preparation of the bid or to award any contract.

Bids shall not discriminate on the basis of race, color, national origin, or sex in the solicitation of sub-bids, award of subcontracts, or performance of the work.

The contract shall be let by the Whittier City Council to the lowest qualified responsive and responsible bidder.

Provisions of Alaska Title 36, Public Contracts, Laborers' and Mechanics' Minimum Rates of Pay, AS 36.05.010 and AS 36.05.030, are applicable to this contract.

By: Scott Korbe, Director of Public Works

Dated: September 16, 2016

**CITY OF WHITTIER, ALASKA  
RE-POWER WELL HOUSES #1, 2 & 3  
REQUIRED DOCUMENTS**

**I. DOCUMENTS REQUIRED WITH BID**

A. In order to be considered a responsive and acceptable bid, the bidder must submit the following documents in accordance with MASS Section 10.02 Bidding Requirements and Conditions and Section 10.03 Award and Execution of Contract:

1. Bid Proposal
2. Bid Schedule
3. Bid Bond

**II. DOCUMENTS REQUIRED FOR AWARD**

A. In order to be awarded the contract, the successful bid must be completely filled out and the following documents submitted as specified in MASS Section 10.03 Award and Execution of Contract.

1. Contract
2. Performance & Payment Bond
3. Certificate of Insurance

B. In addition to the above, the Contractor must have a current Alaska Contractor's license, a current Alaska Business License, a current City of Whittier Business License and, if a corporation or limited liability company, must be registered in Alaska.

**BID PROPOSAL**

TO: CITY OF WHITTIER \_\_\_\_\_, 2016  
P.O. Box 608  
100 Kenai Street, Suite 109  
Whittier, Alaska 99693

SUBJECT: Invitation For Bids  
Project Title: Re-Power Well Houses #1, 2 & 3

Pursuant to and in compliance with subject Invitation For Bids, and other bid documents relating thereto, the Bidder hereby proposes to furnish all labor, materials, and equipment required to complete all work for the construction of the above referenced project in strict accordance with the bid documents at the prices established in the Bid Schedule submitted herewith.

The Bidder agrees, if awarded the contract, to commence and complete the work within the time specified in the bid documents.

The Bidder acknowledges receipt of the following addenda:

Addenda No. \_\_\_\_\_ Date of Addenda \_\_\_\_\_

Addenda No. \_\_\_\_\_ Date of Addenda \_\_\_\_\_

Addenda No. \_\_\_\_\_ Date of Addenda \_\_\_\_\_

Enclosed is a Bid Bond in the amount of \_\_\_\_\_  
(Dollar Amount or Percentage of Bid)

Type of Business Organization

The Bidder, by checking the applicable box, represents that it operates as  
( ) a corporation incorporated under the laws of the State of \_\_\_\_\_,  
( ) an individual,  
( ) a partnership,  
( ) a non-profit organization, or  
( ) a joint venture.

If a partnership or joint venture, identify all parties on a separate page.

\_\_\_\_\_  
(Bidder/Company Name) Alaska Contractor's License  
Number: \_\_\_\_\_

\_\_\_\_\_  
(Address of Bidder) Employer's Tax Identification  
Number: \_\_\_\_\_

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

Phone: \_\_\_\_\_

CITY OF WHITTIER, ALASKA  
**RE-POWER WELL HOUSES #1, 2 & 3**

**BID SCHEDULE**

ITEM NO.	MASS NO.	WORK DESCRIPTION	ESTIMATED QUANTITY	UNIT BID PRICE	TOTAL BID PRICE
1	70.22	Re-Power Well Houses #1, 2 & 3      per    LS	1		

Total Bid Amount: \$ .....

Bidder/Company Name: .....

**BID BOND**

KNOW ALL MEN BY THESE PRESENTS, That we, \_\_\_\_\_  
\_\_\_\_\_ of \_\_\_\_\_  
as Principal, and \_\_\_\_\_  
a corporation organized under the laws of the \_\_\_\_\_  
\_\_\_\_\_ and authorized to transact surety  
business in the State of Alaska, of \_\_\_\_\_,  
as Surety, are held and firmly bound unto the CITY OF WHITTIER, as Obligee, in the full and  
just sum of \_\_\_\_\_  
(\$\_\_\_\_\_ ) Dollars, lawful money of the UNITED STATES, for the payment of  
which sum, well and truly to be made, we bind ourselves, our heirs, administrators, executors,  
successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the said Principal is herewith submitting its proposal for:

**RE-POWER WELL HOUSES #1, 2 & 3**

The condition of this obligation is such that if the aforesaid Principal will, within the time  
required enter into a formal Contract and give a good and sufficient bond to secure the  
performance of the terms and conditions of the Contract, then this Obligation to be void;  
otherwise the Principal and Surety will pay unto the Obligee the amount stated above.

Signed, sealed, and delivered \_\_\_\_\_, 2016.

WITNESS AS TO PRINCIPAL:

\_\_\_\_\_

\_\_\_\_\_  
(Contractor Name)

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

\_\_\_\_\_  
(Name/Title)

(AFFIX CORPORATE SEAL)

\_\_\_\_\_  
(Corporate Surety)

\_\_\_\_\_  
(Surety Business Address)

(AFFIX SURETY SEAL)

By: \_\_\_\_\_  
(Attorney-in-Fact)

**CITY OF WHITTIER, ALASKA**  
**RE-POWER WELL HOUSES #1, 2 & 3**

**II.**

**CONTRACT FORMS**

# CONTRACT

Invitation For Bids No. \_\_\_\_\_

Contract No. \_\_\_\_\_

NAME AND ADDRESS OF CONTRACTOR:

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

Check appropriate box:

- Individual  
 Partnership  
 Incorporated in the State of \_\_\_\_\_

CITY OF WHITTIER (hereinafter the Owner)

Contract for (describe Work to be performed):

RE-POWER WELL HOUSES #1, 2 & 3

Bid Schedules	Items	Plan Sheet File Numbers	Amount _____
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Total Amount: \_\_\_\_\_

TOTAL AMOUNT OF CONTRACT IN WORDS: \_\_\_\_\_

THIS CONTRACT, entered into by the Owner named above, and the individual, partnership, or corporation named above, hereinafter called the Contractor, WITNESSETH that the parties hereto do mutually agree as follows:

Statement of Work: The Contractor shall furnish all labor, equipment, and materials and perform the Work above described, for the amount stated, in strict accordance with the Contract Documents.

CONTRACT DOCUMENTS

I. One of the following:

\_\_\_\_\_ Alaska Department of Transportation and Public Facilities Standard Specifications for Highway Construction, 2004

\_\_\_\_\_ Municipality of Anchorage Standard Specifications, 2009, Rev 3 (MASS)

(Place "X" or "N/A" where applicable)

II. Specifications consisting of the following:

\_\_\_\_\_ Special Provisions consisting of \_\_\_\_\_ pages numbered \_\_\_\_\_ through \_\_\_\_\_.

\_\_\_\_\_ Technical Specifications consisting of Chapters \_\_\_\_\_ through \_\_\_\_\_.

(Place "X" or "N/A" where applicable)

III. This Contract consisting of three (3) pages.

IV. The Contract Performance and Payment Bond consisting of two (2) pages dated \_\_\_\_\_.

V. The Bid Proposal including unit price schedule(s) consisting of \_\_\_\_\_ pages numbered \_\_\_\_\_ through \_\_\_\_\_.

VI. The Contractor's Certificate of Insurance dated \_\_\_\_\_.

VII. The Laborers' and Mechanics' Minimum Rates of Pay dated \_\_\_\_\_.

VIII. The Drawings consisting of \_\_\_\_\_ sheets.

IX. Addenda No. \_\_\_\_\_ through \_\_\_\_\_.

X. Other

Time being of the essence, all Work shall be completed \_\_\_\_\_.

Contract No. \_\_\_\_\_

APPROVED AS TO FORM:

\_\_\_\_\_  
(City Attorney)

IN WITNESS WHEREOF, the parties hereto have executed this Contract as of the Contract Date entered below.

CITY OF WHITTIER, ALASKA

CONTRACTOR: \_\_\_\_\_  
(Name)

By: \_\_\_\_\_  
(Signature)

By: \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Name/Title)

\_\_\_\_\_  
(Name/Title)

Date of Signature: \_\_\_\_\_

Date of Signature: \_\_\_\_\_

Attest: \_\_\_\_\_  
(Municipal Clerk)

Contract Date: \_\_\_\_\_  
(Same as Date of Signature by City)

STATE OF ALASKA                    )  
  ) ss.  
THIRD JUDICIAL DISTRICT        )

THIS IS TO CERTIFY that on this \_\_\_\_\_ day of \_\_\_\_\_, 2016 before me, the undersigned, a Notary Public in and for the State of Alaska, duly commissioned and sworn as such, personally appeared \_\_\_\_\_, to me known to be a/the \_\_\_\_\_ (individual, partner, president, etc.) of \_\_\_\_\_ named in the foregoing instrument, and s/he acknowledged to me that s/he had in his/her official capacity aforesaid executed the foregoing instrument as the free act and deed of the said \_\_\_\_\_, (individual, partnership, corporation, etc.) for the uses and purposes therein stated. Witness my hand and official seal on the day and year first above written.

\_\_\_\_\_  
Notary Public in and for Alaska

My Commission Expires: \_\_\_\_\_

**CONTRACT PERFORMANCE AND PAYMENT BOND**

KNOW ALL MEN BY THESE PRESENTS, That we, \_\_\_\_\_  
\_\_\_\_\_ of \_\_\_\_\_  
as Principal, and \_\_\_\_\_  
a corporation organized under the laws of the \_\_\_\_\_  
\_\_\_\_\_ and authorized to transact surety  
business in the State of Alaska, of \_\_\_\_\_,  
as Surety, are held and firmly bound unto the CITY OF WHITTIER, as Obligee, in the full and  
just sum of \_\_\_\_\_  
(\$ \_\_\_\_\_) Dollars, lawful money of the UNITED STATES, for the payment of  
which sum, well and truly to be made, we bind ourselves, our heirs, administrators, executors,  
successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION IS SUCH, that whereas the Principal has entered  
into a certain contract dated the \_\_\_\_\_ day of \_\_\_\_\_, 2016, with the Obligee  
for the construction of:

**RE-POWER WELL HOUSES #1, 2 & 3**

which contract is hereby referred to and made a part hereof as fully and to the same extent as  
if copied at length herein.

NOW THEREFORE, if the Principal shall well and truly perform and fulfill all the undertakings,  
covenants, terms, conditions, and agreements of said Contract, and shall promptly make  
payments to all persons supplying labor and materials in the prosecution of the Work provided  
for in said Contract, during the original term of said Contract and any extensions or  
modifications thereof that may be granted by the City of Whittier, with or without notice to the  
Surety, then this obligation to be void; otherwise to remain in full force and effect.

This obligation is made for the use of said Obligee and also for the use and benefit of all  
persons who may perform any work or labor or furnish any materials in the execution of said  
Contract and may be sued on thereby in the name of said Obligee.

The said Surety, for the value received, hereby stipulates and agrees that no change,  
extension of time, alteration or addition to the terms of the Contract or to the Work to be  
performed thereunder or the Specifications accompanying the same, shall in anywise affect its  
obligations on this Bond, and it does hereby waive notice of any such change, extension of  
time, alteration or addition to the terms of the Contract or to the Work or to the Specifications.

IN TESTIMONY WHEREOF, the parties hereunto have caused the execution hereof in \_\_\_\_\_  
\_\_\_\_\_ original counterparts as of the \_\_\_\_ day of \_\_\_\_\_, 2016.

WITNESS AS TO PRINCIPAL:

\_\_\_\_\_

\_\_\_\_\_

(Contractor Name)

\_\_\_\_\_

(Contractor Signature)

\_\_\_\_\_

(Name/Title)

(AFFIX CORPORATE SEAL)

\_\_\_\_\_

(Corporate Surety)

\_\_\_\_\_

(Surety Business Address)

(AFFIX SURETY SEAL)

By: \_\_\_\_\_

(Attorney-in-Fact)

# CITY OF WHITTIER

## Business License Application

DEPARTMENT USE ONLY

Date Received: \_\_\_\_\_

New License  Renewal  PTBT

License Number: \_\_\_\_\_

Date Issued: \_\_\_\_\_

Any individual, company or partnership that regularly engages in business activity in Whittier must have a business license for that activity. Business activity includes nonprofit as well as profit operations. A separate license is required for each business activity that falls within a different line of business. A business, which engages in several different activities in a single location, will need more than one business license. A business license is not transferable. If a business is sold, the new owner must purchase a new license. If you have any questions, call the City of Whittier – 907/472-2327, ext. 104.

**Licenses are issued for a period of two calendar years (Jan. 1 – Dec. 31)  
Licenses obtained any time during the year 2016 will expire on December 31, 2017.**

The nonrefundable Business License application fee is **\$50.00**. Make checks payable to **The City of Whittier**.

If your business is engaged in transporting passengers, you have the option of electing to have the Whittier Passenger Transportation Business Tax (PTB Tax) apply to your business rather than the 5 % Whittier sales tax.

Please check this box and complete the Application for Submission to the Whittier Passenger Transportation Business Tax if you wish to elect this option.

**Note: You must have a valid Alaska State Business License before your Whittier Business License Application can be issued.  
(Please include a copy of your State Business License with this application).**

AK Business License Number: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

Business Name: \_\_\_\_\_ DBA: \_\_\_\_\_

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

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

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

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

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

Nature and Description of Business: \_\_\_\_\_

Will this business be selling liquor? \_\_\_\_\_ Estimated Sales: \_\_\_\_\_ Hotel/Motel/B&B? \_\_\_\_\_ Estimated Sales: \_\_\_\_\_

Corporation or Limited Liability Company (LLC)  
Corporation Name: \_\_\_\_\_ EIN: \_\_\_\_\_

Sole Proprietorship  
Proprietor's Name: \_\_\_\_\_ SSN: \_\_\_\_\_

Partnership, Limited Liability Partnership or Limited Partnership. Please provide the social security number of the primary partner and the names of the first two partners. If there are more than 2 partners, please attach a complete list of partner names.

Partner #1: \_\_\_\_\_ SSN: \_\_\_\_\_

Partner #2: \_\_\_\_\_ SSN: \_\_\_\_\_

This application must be signed and dated by the person completing this application on behalf of the business and must state the person's title or position in the business.

**I declare, under penalty of perjury, that this application is true and complete.**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

**CITY OF WHITTIER, ALASKA**  
**RE-POWER WELL HOUSES #1, 2 & 3**

**III.**

**SPECIAL PROVISIONS**

**CITY OF WHITTIER, ALASKA**  
**RE-POWER WELL HOUSES #1, 2 & 3**

INDEX TO SPECIAL PROVISIONS

	<u>PAGE</u>
SECTION 95.01 GENERAL STATEMENT AND EXTENT OF WORK.....	1
SECTION 95.02 REFERENCE TO MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS .....	1
SECTION 95.03 TIME OF COMPLETION .....	2
SECTION 95.04 MODIFICATIONS AND/OR ADDITIONS TO MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS .....	2
A. DIVISION 10 STANDARD GENERAL PROVISIONS .....	2
SECTION 10.00 ALL APPLICABLE MASS ARTICLES .....	2
SECTION 10.01 DEFINITIONS .....	2
SECTION 10.05 CONTROL OF WORK.....	2
SECTION 10.06 LEGAL RELATIONS AND RESPONSIBILITIES .....	3
SECTION 10.07 MEASUREMENT AND PAYMENT.....	3
B. DIVISION 70 STANDARD CONSTRUCTION SPECIFICATIONS FOR MISCELLANEOUS .....	4
SECTION 70.22 RE-POWER WELL HOUSES #1, 2 & 3 .....	4

## CITY OF WHITTIER, ALASKA

### RE-POWER WELL HOUSES #1, 2 & 3

#### SPECIAL PROVISIONS

##### **SECTION 95.01 GENERAL STATEMENT AND EXTENT OF WORK**

All proposed Work is located within the City of Whittier, herein defined as the Owner, and is more particularly located as shown on the design drawings. The Work included under this Contract consists of furnishing all labor, materials, tools, equipment, supervision, transportation, and other facilities necessary to successfully complete the Work set forth in the Drawings and Specifications. It is the responsibility of the bidder to prepare the bid so that all materials and/or fittings shall harmoniously conform to the intent of the Contract Drawings, Specifications, and Special Provisions.

The scope of work includes providing 3-phase 480V feeders for three existing well houses from a new 400A rated service. A 400A manual transfer switch utilizing individual quick connect receptacles and associated plugs and cables will serve a new 400A MDP used to serve well house feeders. An Owner-furnished 250kW generator will be used for standby service and providing matching plugs and cables and terminating at the generator. The individual feeders will terminate at new disconnects at each of the three existing well houses. Wiring in each well house will be modified to utilize the new feeder and re-route taps to serve individual circuits. Scope will include demolition of an existing overhead 3-phase secondary service lateral from the Whittier City Shop to the three well house structures, and other miscellaneous items of work. Coordination with Chugach Electric Association for new service and demolition is included in the work.

The Contractor awarded the Contract for this project and all subcontractors shall be required to obtain a City of Whittier business license.

##### **SECTION 95.02 REFERENCE TO MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS**

This Contract is subject to and hereby incorporates by reference the Municipality of Anchorage Standard Specifications, dated 2009, Revision 3, hereinafter referred to as MASS. All references to the Municipality of Anchorage contained in MASS shall be changed to read the City of Whittier. All references to the Anchorage Water & Wastewater Utility, hereinafter referred to as AWWU, shall be changed to read the City of Whittier.

MASS is available for download on the Municipality of Anchorage website, at the following link:

[http://www.muni.org/Departments/project\\_management/Pages/MASS.aspx](http://www.muni.org/Departments/project_management/Pages/MASS.aspx)

All Work under this Contract shall comply with the latest edition and addenda to all applicable codes, ordinances, and standards.

### **SECTION 95.03 TIME OF COMPLETION**

This Project shall be substantially complete within sixty (60) calendar days after the Notice-to-Proceed is issued. Final completion for the Project shall be within ninety (90) calendar days after the Notice-to-Proceed is issued.

### **SECTION 95.04 MODIFICATIONS AND/OR ADDITIONS TO MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS**

The following listed provisions of MASS are amended as hereinafter stated:

#### **A. DIVISION 10 STANDARD GENERAL PROVISIONS**

*Add the following Section:*

##### **SECTION 10.00 ALL APPLICABLE MASS ARTICLES**

Delete any and all references to and requirements for compliance with Anchorage Municipal Code Chapter 7.60 the Disadvantaged/Women Owned Business (DBE/WBE) program and specifications.

##### **SECTION 10.01 DEFINITIONS**

*Add the following definitions:*

**Record Drawings** - Detailed drawings that accurately depict all changes in location (both horizontal and vertical), material, equipment, and other elements of Work accomplished by the Contractor. The drawings shall also depict the horizontal and vertical locations of all other utilities and obstructions encountered during construction. Final elevations and locations shall be clearly marked with actual dimensions.

##### **SECTION 10.05 CONTROL OF WORK**

###### **Article 5.27 Liquidated Damages**

*Add the following paragraph:*

The Owner may withhold from any progress payment the sum of \$200 per day as Liquidated Damages for each and every calendar day that the Substantial Completion Date is delayed beyond the Contract Completion Date. After substantial completion, the Owner may withhold out of any progress payment the sum of \$100 per day as Liquidated Damages for each and every calendar day that the Final Acceptance Date is delayed beyond the Contract Completion Date. If no money is due Contractor, the Owner will have the right to recover said sums from Contractor, the Surety, or both.

## **SECTION 10.06    LEGAL RELATIONS AND RESPONSIBILITIES**

### **Article 6.1    Laws to be Observed**

*Add the following paragraph:*

Owner is not aware of any contaminated material within the project limits. If such material is encountered, Contractor shall notify the Engineer immediately for direction. This will be treated as a changed condition, unless the contamination was caused by Contractor's operation.

## **SECTION 10.07    MEASUREMENT AND PAYMENT**

*Add the following Article:*

### **Article 7.0    Payments to Contractors and Subcontractors**

This Contract is funded (in part or in its entirety) by the State of Alaska; therefore, the Provisions of Alaska Statute 36, Section 36.90, Article 3, entitled "Public Construction Contract Payment," apply.

**B. DIVISION 70      STANDARD    CONSTRUCTION    SPECIFICATIONS    FOR  
MISCELLANEOUS**

*Add the following New Section:*

**SECTION 70.22      RE-POWER WELL HOUSES #1, 2 & 3**

**Article 22.1    General**

The Work described in this Section shall consist of providing all labor, materials, tools, equipment, supervision, transportation, and other facilities to provide:

1. 400A, 480Y277V service in accordance with Chugach Electric Association specifications.
2. 400A Service Rated 480V 3-Pole Main Breaker.
3. 400A, 5-Pole, NEMA 3R manual transfer switch with (male) quick connect fittings and (female) plugs for standby connection.
4. 400A, 480Y277V, NEMA 3R, MLO Distribution Panel (MDP) with breakers as shown on the Drawings.
5. Buried feeders serving Well Houses #1 and #2.
6. Main Disconnects serving Well Houses #1 and #2.
7. Re-wire interior distribution in Well Houses #1, #2 and #3.
8. Replace/Upgrade heater in Well House #2.
9. Terminate transfer switch cord and plug assemblies and connection to Owner-furnished standby generator.
10. Testing, including verifying Well House service phasing to assure proper rotation of well pumps.
11. Two individual buried feeders served from a new 400A MDP and one local feeder terminated at new disconnects at each of three existing well house structures.

Coordinate with Chugach Electric Association (CEA) personnel to provide demolition of an existing overhead 3-phase secondary service lateral extending from the Whittier City Shop to the three well house structures. Conductors are owned by the City of Whittier on CEA poles. Coordination of the demolition phase with CEA is required. Demolition of risers and internal feeders at each structure is also required.

The City of Whittier will pay for all fees and charges from Chugach Electric Association in regards to providing the 400A service and demolition of the abandoned feeder.

The contractor will be responsible for disposal of all materials removed/demolished under this contract.

### **Article 22.2 Work Plan**

Provide a work plan identifying the intended sequence of events for completing the project. The existing well houses shall be kept in operation except for a short period of time during the switch-over. All outages shall be coordinated with and approved by the City of Whittier Department of Public Works.

### **Article 22.3 Quality Assurance**

- A. Comply with the applicable provisions of the Local Building Codes, and meet all requirements by Underwriters Laboratories (UL) and/or the Factory Manual System.
- B. Provide all wiring in accordance with the latest legally adopted version of the National Electrical Code (NEC) and Local Electrical Codes, and other sections of these specifications.

### **Article 22.4 Materials**

- A. Power Distribution: MDP shall meet the requirements shown on the Drawings.
- B. Wireway, Conduits and Fittings: Wireway, conduits, and fittings shall meet the requirements shown on the Drawings and as specified elsewhere. At a minimum, wiring methods and materials shall comply with NFPA 70.
- C. Conductors: Conductors shall meet the requirements shown on the Drawings and as specified elsewhere. At a minimum wiring methods and materials shall comply with NFPA 70.
- D. Service shall meet CEA Service Standards and Requirements for over 200A 3-phase services.
- E. Manual Transfer Switch shall include the following features:
  - 1. Heavy Duty Double Throw
  - 2. Four Pole
  - 3. 600VAC
  - 4. 400A rated

5. Unfused
6. NEMA 3R
7. Posi-Lok (Eaton/Crouse Hinds) with reverse pins for standby duty
8. Switched Neutral

#### **Article 22.5 Construction**

- A. Furnish and install all work as shown on the Drawings in accordance with MASS and these Special Provisions.
- B. Verify proper phase rotation of well pumps after installation is complete. Revise conductor arrangement at the main disconnect to correct. Test for both Utility and standby sources.

#### **Article 22.6 Measurement**

Measurement for Re-Power Well Houses #1, 2 & 3 shall be by Lump Sum.

#### **Article 22.7 Basis of Payment**

Payment for this Work shall be in accordance with Division 10 Standard General Provisions, Section 10.07, Measurement and Payment, and shall include full payment for all Work described in this Section.

The unit price bid for Re-Power Well Houses #1, 2 & 3 shall include all labor, materials, tools, equipment, supervision, transportation, and other facilities necessary to furnish and install 3-phase 480V feeders for the three well houses from a new 400A rated service located at Well House #3; a 400A manual transfer switch utilizing individual quick connect receptacles and associated plugs and cables; new disconnects at each of three existing well houses; wiring in each well house to utilize the new feeder and re-route taps to serve individual circuits; new 10kW 3-phase 480V heater and overcurrent device in Well House #2; demolition of the existing overhead 3-phase secondary service lateral from the Whittier City Shop to the three well house structures; and other miscellaneous items of work as shown on the Drawings. In addition the unit price bid for Re-Power Well Houses #1, 2 & 3 shall include, but not limited to, the following incidental items: clearing and grubbing; excavation and backfill; compaction; disposal of unsuitable or surplus material; protection, bracing, and/or shoring of existing utilities; finish grading; and cleanup. Coordination with Chugach Electric Association for the new service and demolition of existing service lateral is included in the work.

The City of Whittier will pay for all fees and charges from Chugach Electric Association in regards to providing the 400A service and demolition of the abandoned feeder.

Payment shall be made under the following unit:

ITEM	UNIT
Re-Power Well Houses #1, 2 & 3	Lump Sum

END OF SPECIAL PROVISIONS

**CITY OF WHITTIER, ALASKA**  
**RE-POWER WELL HOUSES #1, 2 & 3**

**IV.**

**CONSTRUCTION FORMS**

## DEVIATION REQUEST (DR)

**PROJECT** \_\_\_\_\_ **DR NO.** \_\_\_\_\_  
**CONTRACTOR** \_\_\_\_\_ **CONTRACT NO.** \_\_\_\_\_  
**ORIGINATOR** \_\_\_\_\_ **SPEC. SECTION** \_\_\_\_\_  
**DATE SUBMITTED** \_\_\_\_\_ **DRAWING NO.** \_\_\_\_\_ **SHEET** \_\_\_\_\_ **OF** \_\_\_\_\_

**DESCRIPTION OF DR**

**A. Original Contract Requirements:**

**B. Reason for Deviation Request:**

**C. Proposed Deviation:**

**D. Any Changes in Contract Time or Cost**       **YES**       **NO**

**CONTRACTOR SIGNATURE - Date** \_\_\_\_\_      **RESPONSE REQUIRED BY (Date)** \_\_\_\_\_

**RESPONSE TO DR**

**RESPONSE BY (Name/Company)** \_\_\_\_\_

ROUTING	RECEIVED BY NAME / COMPANY	DATE RECEIVED	DATE FORWARDED	COMMENTS
Project Manager				
Designer				
Project Manager				
Contractor				

**DIRECTION**

**Approved**  
 **Approved as Noted**      **BY** \_\_\_\_\_  
 **Disapproved**      (Signature)

# SUBSTITUTION REQUEST (SR)

**PROJECT** \_\_\_\_\_ **SR NO.** \_\_\_\_\_  
**CONTRACTOR** \_\_\_\_\_ **CONTRACT NO.** \_\_\_\_\_  
**ORIGINATOR** \_\_\_\_\_ **SPEC. SECTION** \_\_\_\_\_  
**DATE SUBMITTED** \_\_\_\_\_ **DRAWING NO.** \_\_\_\_\_ **SHEET** \_\_\_\_\_ **OF** \_\_\_\_\_

**SPECIFIED ITEM:**

SECTION	PAGE	PARAGRAPH	DESCRIPTION
---------	------	-----------	-------------

The undersigned requests consideration of the following:

**PROPOSED SUBSTITUTION:** \_\_\_\_\_

Attached data includes product description, specifications, drawings, photographs and performance and test adequate for evaluation of the request. Applicable portions of the data are clearly identified.

The undersigned states that the following paragraphs, unless modified on attachments, are correct:

1. The proposed substitution does not affect dimensions shown on Drawings and will not require any change in any of the Contract Documents.
2. The undersigned will pay for changes to the design, including engineering design, detailing, and construction costs caused by the requested substitution which is estimated to be \$\_\_\_\_\_.
3. The proposed substitution will have no adverse affect on other contractors, the construction schedule (specifically the date of substantial completion), or specified warranty requirements.
4. Maintenance and service parts will be locally available for the proposed substitution.
5. The incorporation or use of the substitution in connection with the work is not subject to payment of any license fee or royalty.

The undersigned further states that the function, appearance, and quality of the Proposed Substitution are equivalent or superior to the Specified Item.

Submitted by <b>CONTRACTOR</b>	Reviewed by <b>ENGINEER</b>
<p><b>Signature:</b> _____</p> <p><b>Firm:</b> _____</p> <p>_____</p> <p><b>Date:</b> _____</p> <p><b>Telephone:</b> _____</p> <p><b>Attachments:</b></p> <p>_____</p> <p>_____</p>	<p><input type="checkbox"/> <b>Accepted</b></p> <p><input type="checkbox"/> <b>Accepted as Noted</b></p> <p><input type="checkbox"/> <b>Not Accepted</b></p> <p><input type="checkbox"/> <b>Received too Late</b></p> <p><b>By:</b> _____</p> <p><b>Title:</b> _____</p> <p><b>Date:</b> _____</p> <p><b>Remarks:</b> _____</p>

## DESIGN CLARIFICATION/VERIFICATION REQUEST (DC/VR)

**PROJECT** \_\_\_\_\_ **DC/VR NO.** \_\_\_\_\_  
**CONTRACTOR** \_\_\_\_\_ **CONTRACT NO.** \_\_\_\_\_  
**ORIGINATOR** \_\_\_\_\_ **SPEC. SECTION** \_\_\_\_\_  
**DATE SUBMITTED** \_\_\_\_\_ **DRAWING NO.** \_\_\_\_\_ **SHEET** \_\_\_\_\_ **OF** \_\_\_\_\_

**DESCRIPTION OF DC/VR**

**RESPONSE REQUESTED BY (Date)** \_\_\_\_\_

**RESPONSE TO DC/VR**

**RESPONSE BY (Name/Company)** \_\_\_\_\_

ROUTING	RECEIVED BY NAME / COMPANY	DATE RECEIVED	DATE FORWARDED	COMMENTS
Project Manager				
Designer				
Project Manager				
Contractor				

**DIRECTION**

- Proceed per Engineers Response. No change in contract price or time is recognized.  
 Do not proceed until \_\_\_\_\_  
 \_\_\_\_\_

# SUBMITTAL TRANSMITTAL

PROJECT \_\_\_\_\_ SUBMITTAL NO. \_\_\_\_\_

CONTRACTOR \_\_\_\_\_ CONTRACT NO. \_\_\_\_\_

ORIGINATOR \_\_\_\_\_ SPEC. SECTION \_\_\_\_\_

DATE SUBMITTED \_\_\_\_\_ DRAWING NO. \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_

TO: CITY OF WHITTIER  
 Re-Power Well Houses #1, 2 & 3  
 P.O. Box 608  
 Whittier, Alaska 99693

ATTN:

ITEM: _____		REVIEW ACTION						
SUPPLIER/CONTRACTOR:		COPIES SENT	NO EXCEPTION TAKEN	CORRECTIONS AS NOTED	AMEND AND RESUBMIT	REJECTED RESUBMIT	COPIES RETURNED	NOTES ATTACHED
<input type="checkbox"/> Original Submittal <input type="checkbox"/> 3rd <input type="checkbox"/> 2nd <input type="checkbox"/> 4th								
IDENT. NO.	DETAILED DESCRIPTION (Provide Itemized List of Contents of this Submittal)	A	B	C	D			

Complete either (a) or (b), following:

- (a) We have verified that the material or equipment contained in this submittal meets all the requirements specified or shown (no exceptions).
  
- (b) We have verified that the material or equipment contained in this submittal meets all the requirements specified or shown, except for the following deviations (list deviations, attach a separate sheet if necessary).

Corrections or comments made relative to submittals during this review do not relieve the Contractor from compliance with the requirements of the drawings and specifications. This submittal is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The Contractor is responsible for confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of other trades, and performing his work in a safe and satisfactory manner.

CONTRACTOR: \_\_\_\_\_  
(Signature)

ENGINEER: \_\_\_\_\_  
(Signature)

ROUTING	RECEIVED BY NAME / COMPANY	DATE RECEIVED	DATE FORWARDED	COMMENTS
Project Manager				
Designer				
Project Manager				
Contractor				

**CITY OF WHITTIER, ALASKA**  
**RE-POWER WELL HOUSES #1, 2 & 3**

**V.**

**LABORERS' AND MECHANICS' MINIMUM RATES OF PAY**

# Laborers' & Mechanics' Minimum Rates of Pay

Effective September 1, 2016  
Issue 33



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THE STATE  
of **ALASKA**  
GOVERNOR BILL WALKER

**Department of Labor and  
Workforce Development**

Office of the Commissioner

Post Office Box 111149  
Juneau, Alaska 99811  
Main: 907.465.2700  
fax: 907.465-2784

September 1, 2016

**TO ALL CONTRACTING AGENCIES:**

At the Alaska Department of Labor and Workforce Development, our goal is putting Alaskans to work. This pamphlet is designed to help contractors awarded public construction contracts understand the most significant laws of the State of Alaska pertaining to prevailing wage and resident hire requirements.

This pamphlet identifies current prevailing wage rates and resident hire classifications for public construction contracts (any construction projects awarded by the State of Alaska or its political subdivisions, such as local governments and certain non-profit organizations). Because these rates may change, this publication is printed in the spring and fall of every year, so please be sure you are using the appropriate rates. The rates published in this edition become effective September 1, 2016.

All projects with a final bid date of September 11, 2016, or later, must pay the prevailing wage rates contained in this pamphlet. As the law now provides, these rates will remain stable during the life of a contract or for 24 calendar months, whichever is shorter. **The 24-month period begins on the date the prime contract is awarded.** Upon expiration of the initial 24-month period, the latest wage rates issued by the department shall become effective for a subsequent 24-month period or until the original contract is completed, whichever occurs first. This process shall be repeated until the original contract is completed.

The term "original contract" means the signed contract that resulted from the original bid and any amendments, including changes of work scope, additions, extensions, change orders, and other instruments agreed to by the parties that have not been subject to subsequent open bid procedures.

If a higher federal rate is required due to partial federal funding or other federal participation, the higher rate must be paid.

For additional copies of this pamphlet, contact the nearest office of the Division of Labor Standards and Safety, Wage and Hour office or the Web address at: <http://labor.state.ak.us/lss/pamp600.htm>

For questions regarding prevailing wage or resident hire requirements, please contact the nearest Wage and Hour office. These offices are listed on Page xi.

Sincerely,

  
Heidi Drygas  
Commissioner

# Table of Contents

## Excerpts from Alaska Law

Sec. 36.05.005. Applicability.....	iii
Sec. 36.05.010. Wage rates on public construction.....	iii
Sec. 36.05.040. Filing schedule of employees, wages paid and other information .....	iii
Sec. 36.05.045. Notice of work and completion; withholding of payment .....	iii
Sec. 36.05.060. Penalty for violation of this chapter .....	iv
Sec. 36.05.070. Wage rates in specifications and contracts for public works .....	iv
Sec. 36.05.080. Failure to pay agreed wages.....	iv
Sec. 36.05.090. Payment of wages from withheld payments and listing contractors who violate contracts ....	iv
Sec. 36.05.900. Definition.. ..	v

## Additional Information

Laborer Classification Clarification.....	v
Accommodations and Per Diem .....	v
Apprentice Hiring Requirements .....	vi
Apprentice Rates.....	vii
Fringe Benefit Plans.....	vii
Special Prevailing Wage Rate Determination.....	vii
Request for Notice of Proposed Change of Labor Standards Regulations .....	ix
Alaska Hire Employment Preference.....	x
Debarment List .....	xi

<b>Wage Rates .....</b>	<b>Pages 1-25</b>
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**Note to Readers: The statutes and administrative regulations listed in this publication were taken from the official codes, as of the effective date of the publication. However, there may be errors or omissions that have not been identified and changes that occurred after the publication was printed.** This publication is intended as an informational guide only and is not intended to serve as a precise statement of the statutes and regulations of the State of Alaska. To be certain of the current laws and regulations, please refer to the official codes.

## EXCERPTS FROM ALASKA LAW

*(The following statute (36.05.005) applies to projects bid on or after October 20, 2011)*

### **Sec. 36.05.005. Applicability.**

This chapter applies only to a public construction contract that exceeds \$25,000.

### **Sec. 36.05.010. Wage rates on public construction.**

A contractor or subcontractor who performs work on a public construction contract in the state shall pay not less than the current prevailing rate of wages for work of a similar nature in the region in which the work is done. The current prevailing rate of wages is that contained in the latest determination of prevailing rate of wages issued by the Department of Labor and Workforce Development at least 10 days before the final date for submission of bids for the contract. The rate shall remain in effect for the life of the contract or for 24 calendar months, whichever is shorter. At the end of the initial 24-month period, if new wage determinations have been issued by the department, the latest wage determination shall become effective for the next 24-month period or until the contract is completed, whichever occurs first. This process shall be repeated until the contract is completed.

### **Sec. 36.05.040. Filing schedule of employees, wages paid, and other information.**

All contractors or subcontractors who perform work on a public construction contract for the state or for a political subdivision of the state shall, before the Friday of every second week, file with the Department of Labor and Workforce Development a sworn affidavit for the previous reporting period, setting out in detail the number of persons employed, wages paid, job classification of each employee, hours worked each day and week, and other information on a form provided by the Department of Labor and Workforce Development.

### **Sec. 36.05.045. Notice of work and completion; withholding of payment.**

- (a) Before commencing work on a public construction contract, the person entering into the contract with a contracting agency shall designate a primary contractor for purposes of this section. Before work commences, the primary contractor shall file a notice of work with the Department of Labor and Workforce Development. The notice of work must list work to be performed under the public construction contract by each contractor who will perform any portion of work on the contract and the contract price being paid to each contractor. The primary contractor shall pay all filing fees for each contractor performing work on the contract, including a filing fee based on the contract price being paid for work performed by the primary contractor's employees. The filing fee payable shall be the sum of all fees calculated for each contractor. The filing fee shall be one percent of each contractor's contract price. The total filing fee payable by the primary contractor under this subsection may not exceed \$5,000. In this subsection, "contractor" means an employer who is using employees to perform work on the public construction contract under the contract or a subcontract.
- (b) Upon completion of all work on the public construction contract, the primary contractor shall file with the Department of Labor and Workforce Development a notice of completion together with payment of any additional filing fees owed due to increased contract amounts. Within 30 days after the department's receipt of the primary contractor's notice of completion, the department shall inform the contracting agency of the amount, if any, to be withheld from the final payment.
- (c) A contracting agency
  - (1) may release final payment of a public construction contract to the extent that the agency has received verification from the Department of Labor and Workforce Development that
    - (A) the primary contractor has complied with (a) and (b) of this section;
    - (B) the Department of Labor and Workforce Development is not conducting an investigation under this title; and
    - (C) the Department of Labor and Workforce Development has not issued a notice of a violation of this chapter to the primary contractor or any other contractors working on the public construction contract; and

- (2) shall withhold from the final payment an amount sufficient to pay the department's estimate of what may be needed to compensate the employees of any contractors under investigation on this construction contract, and any unpaid filing fees.
- (d) The notice and filing fee required under (a) of this section may be filed after work has begun if
  - (1) The public construction contract is for work undertaken in immediate response to an emergency; and
  - (2) The notice and fees are filed not later than 14 days after the work has begun.
- (e) A false statement made on a notice required by this section is punishable under AS 11.56.210.

**Sec. 36.05.060. Penalty for violation of this chapter.**

A contractor who violates this chapter is guilty of a misdemeanor and upon conviction is punishable by a fine of not less than \$100 nor more than \$1,000, or by imprisonment for not less than 10 days nor more than 90 days, or by both. Each day a violation exists constitutes a separate offense.

**Sec. 36.05.070. Wage rates in specifications and contracts for public works.**

- (a) The advertised specifications for a public construction contract that requires or involves the employment of mechanics, laborers, or field surveyors must contain a provision stating the minimum wages to be paid various classes of laborers, mechanics, or field surveyors and that the rate of wages shall be adjusted to the wage rate under AS 36.05.010.
- (b) Repealed by §17 ch 142 SLA 1972.
- (c) A public construction contract under (a) of this section must contain provisions that
  - (1) the contractor or subcontractors of the contractor shall pay all employees unconditionally and not less than once a week;
  - (2) wages may not be less than those stated in the advertised specifications, regardless of the contractual relationship between the contractor or subcontractors and laborers, mechanics, or field surveyors;
  - (3) the scale of wages to be paid shall be posted by the contractor in a prominent and easily accessible place at the site of the work;
  - (4) the state or a political subdivision shall withhold so much of the accrued payments as is necessary to pay to laborers, mechanics, or field surveyors employed by the contractor or subcontractors the difference between
    - (A) the rates of wages required by the contract to be paid laborers, mechanics, or field surveyors on the work; and
    - (B) the rates of wages in fact received by laborers, mechanics, or field surveyors.

**Sec. 36.05.080. Failure to pay agreed wages.**

Every contract within the scope of AS 36.05.070 shall contain a provision that if it is found that a laborer, mechanic, or field surveyor employed by the contractor or subcontractor has been or is being paid a rate of wages less than the rate of wages required by the contract to be paid, the state or its political subdivision may, by written notice to the contractor, terminate the contractor's right to proceed with the work or the part of the work for which there is a failure to pay the required wages and to prosecute the work to completion by contract or otherwise, and the contractor and the contractor's sureties are liable to the state or its political subdivision for excess costs for completing the work.

**Sec. 36.05.090. Payment of wages from withheld payments and listing contractors who violate contracts.**

- (a) The state disbursing officer in the case of a state public construction contract and the local fiscal officer in the case of a political subdivision public construction contract shall pay directly to laborers, mechanics, or field surveyors from accrued payments withheld under the terms of the contract the wages due laborers, mechanics, or field surveyors under AS 36.05.070.
- (b) The state disbursing officer or the local fiscal officer shall distribute to all departments of the state government and to all political subdivisions of the state a list giving the names of persons who have disregarded their obligations to employees. A person appearing on this list and a firm, corporation,

partnership, or association in which the person has an interest may not work as a contractor or subcontractor on a public construction contract for the state or a political subdivision of the state until three years after the date of publication of the list. If the accrued payments withheld under the contract are insufficient to reimburse all the laborers, mechanics, or field surveyors with respect to whom there has been a failure to pay the wages required under AS 36.05.070, the laborers, mechanics, or field surveyors have the right of action or intervention or both against the contractor and the contractor's sureties conferred by law upon persons furnishing labor or materials, and in the proceedings it is not a defense that the laborers, mechanics, or field surveyors accepted or agreed to accept less than the required rate of wages or voluntarily made refunds.

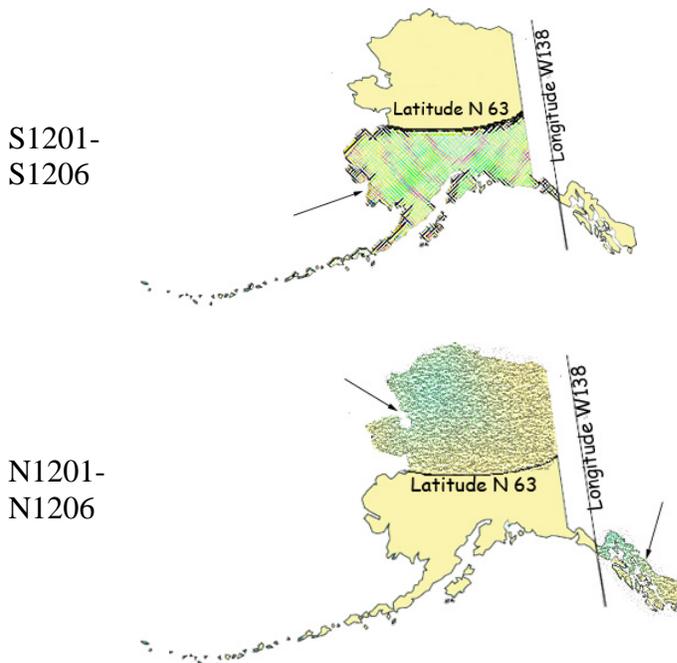
**Sec. 36.05.900. Definition.**

In this chapter, "contracting agency" means the state or a political subdivision of the state that has entered into a public construction contract with a contractor.

**ADDITIONAL INFORMATION**

**LABORER CLASSIFICATION CLARIFICATION**

The laborer rates categorized in class code S1201-S1206 apply in one area of Alaska; the area that is south of N63 latitude and west of W138 Longitude. The laborer rates categorized in class code N1201-N1206 apply in two areas of Alaska; the Alaska areas north of N63 latitude and east of W138 longitude. The following graphic representations should assist with clarifying the applicable wage rate categories:



**ACCOMMODATIONS AND PER DIEM**

The Alaska Department of Labor and Workforce Development has adopted a per diem requirement for blocklayers, bricklayers, carpenters, dredgemen, heat & frost insulators/asbestos workers, ironworkers, laborers, operative plasterers & cement masons, painters, piledrivers, power equipment operators, roofers, surveyors, truck

drivers/surveyors, and tunnel workers. This per diem rate creates an allowable alternative to providing board and lodging under the following conditions:

**Employer-Provided Camp or Suitable Accommodations**

Unless otherwise approved by the Commissioner, the employer shall ensure that a worker who is employed on a project that is 65 road miles or more from the international airport in either Fairbanks, Juneau or Anchorage or is inaccessible by road in a 2-wheel drive vehicle and who is not a domiciled resident of the locality of the project shall receive meals and lodging. Lodging shall be in accordance with all applicable state and federal laws. In cases where the project site is not road accessible, but the employee can reasonably get to the project worksite from their permanent residence within one hour, the Commissioner may waive these requirements for that employee upon a written request from the employer.

The term “domiciled resident” means a person living within 65 road miles of the project, or in the case of a highway project, the mid-point of the project, for at least 12 consecutive months prior to the award of the project. However, if the employer or person provides sufficient evidence to convince the department that a person has established a permanent residence and an intent to remain indefinitely within the distance to be considered a “domiciled resident,” the employer shall not be required to provide meals and lodging or pay per diem.

Where the employer provides or furnishes board, lodging or any other facility, the cost or amount thereof shall not be considered or included as part of the required prevailing wage basic hourly rate and cannot be applied to meet other fringe benefit requirements. The taxability of employer provided board and lodging shall be determined by the appropriate taxation enforcement authority.

**Per Diem**

Employers are encouraged to use commercial facilities and lodges; however, when such facilities are not available, per diem in lieu of meals and lodging must be paid at the basic rate of \$75.00 per day, or part thereof, the worker is employed on the project. Per diem shall not be allowed on highway projects west of Livengood on the Elliott Highway, at Mile 0 of the Dalton Highway to the North Slope of Alaska, north of Mile 20 on the Taylor Highway, east of Chicken, Alaska, on the Top of the World Highway and south of Tetlin Junction to the Alaska-Canada border.

The above-listed standards for room and board and per diem only apply to the crafts as identified in Pamphlet 600, *Laborers’ and Mechanics’ Minimum Rates of Pay*. Other crafts working on public construction projects shall be provided room and board at remote sites based on the department’s existing policy guidelines. In the event that a contractor provides lodging facilities, but no meals, the department will accept payment of \$36 per day for meals to meet the per diem requirements.

**\*\* NEW \*\* APPRENTICE HIRING REQUIREMENTS**

On November 5, 2015, Governor Walker signed Administrative Order No. 278 to help ensure that there is an adequate pool of well-trained Alaskan construction workers to satisfy the industry needs. AO 278 replaced AO 226 and established a 15 percent goal for hiring federally registered apprentices in certain job categories on all public construction projects awarded by the Alaska Department of Transportation and Public Facilities and the Alaska Department of Administration that exceed \$2.5 million. The Order requires the commissioners of DOTPF and DOA to strive to require not less than 15 percent labor hours on a qualified project are performed by federally registered apprentices in the following classifications:

- |               |                                   |                          |
|---------------|-----------------------------------|--------------------------|
| Boilermakers  | Elevator Constructors & Mechanics | Plumbers and Pipefitters |
| Bricklayers   | Insulation Workers                | Roofers                  |
| Carpenters    | Ironworkers                       | Sheetmetal Workers       |
| Cement Masons | Laborers                          | Surveyors                |

Culinary Workers  
Electricians  
Equipment Operators

Mechanics  
Millwrights  
Painters  
Piledriving Occupations

Sprinkler Fitters  
Truck Drivers  
Tug Boat Workers  
Welders

A federally registered apprentice is enrolled in an apprentice training program under 29 U.S.C. 50 and 29 C.F.R. 29.1 – 29.13. Contractors will be expected to file apprentice utilization forms throughout the project or utilize the online certified payroll filing system available on the My Alaska website. A copy of AO 278 may be viewed in its entirety at <http://gov.state.ak.us/admin-orders/278.html> or call any Wage and Hour office to receive a copy.

### **APPRENTICE RATES**

Apprentice rates at less than the minimum prevailing rates may be paid to apprentices according to an apprentice program which has been registered and approved by the Commissioner of the Alaska Department of Labor and Workforce Development in writing or according to a bona fide apprenticeship program registered with the U.S. Department of Labor, Office of Apprenticeship Training. **Any employee listed on a payroll at an apprentice wage rate who is not registered as above shall be paid the journeyman prevailing minimum wage in that work classification.** Wage rates are based on prevailing crew makeup practices in Alaska and apply to work performed regardless of either the quality of the work performed by the employee or the titles or classifications which may be assigned to individual employees.

### **FRINGE BENEFIT PLANS**

Contractors/subcontractors may compensate fringe benefits to their employees in any one of three methods. The fringe benefits may be paid into a union trust fund, into an approved benefit plan, or paid directly on the paycheck as gross wages.

Where fringe benefits are paid into approved plans, funds, or programs including union trust funds, the payments must be contributed at least monthly. If contractors submit their own payroll forms and are paying fringe benefits into approved plans, funds, or programs, the employer's certification must include, in addition to those requirements of 8 AAC 30.020(c), a statement that fringe benefit payments have been or will be paid at least monthly. Contractors who pay fringe benefits to a plan must ensure the plan is one approved by the Internal Revenue Service and that the plan meets the requirements of 8 AAC 30.025 (eff. 3/2/08) in order for payments to be credited toward the prevailing wage obligation.

### **SPECIAL PREVAILING WAGE RATE DETERMINATION**

Special prevailing wage rate determinations may be requested for special projects or a special worker classification if the work to be performed does not conform to traditional public construction for which a prevailing wage rate has been established under 8 AAC 30.050(a) of this section. Requests for special wage rate determinations must be in writing and filed with the Commissioner at least 30 days before the award of the contract. An applicant for a special wage rate determination shall have the responsibility to support the necessity for the special rate. An application for a special wage rate determination filed under this section must contain:

- (1) a specification of the contract or project on which the special rates will apply and a description of the work to be performed;
- (2) a brief narrative explaining why special wage rates are necessary;
- (3) the job class or classes involved;
- (4) the special wage rates the applicant is requesting, including survey or other relevant wage data to support the requested rates;
- (5) the approximate number of employees who would be affected; and
- (6) any other information which might be helpful in determining if special wage rates are appropriate.

Requests made pursuant to the above should be addressed to:

Director  
Alaska Department of Labor and Workforce Development  
Labor Standards & Safety Division  
Wage and Hour Administration  
P.O. Box 111149  
Juneau, AK 99811-1149  
-or-  
Email: [anchorage.lss-wh@alaska.gov](mailto:anchorage.lss-wh@alaska.gov)

**LABOR STANDARDS REGULATIONS  
NOTICE REQUEST**

If you would like to receive *notices of proposed changes to regulations* for Wage and Hour or Mechanical Inspection, please indicate below the programs for which you are interested in receiving such notices, print your name and email or mailing address in the space provided, and send this page to:

Alaska Department of Labor and Workforce Development  
Labor Standards & Safety Division  
Wage and Hour Administration  
1251 Muldoon Road, Suite 113  
Anchorage, AK 99504-2098  
Email: anchorage.lss-wh@alaska.gov

**For *REGULATIONS* information relating to any of the following:**

- Wage and Hour Title 23 Employment Practices
- Wage and Hour Title 36 Public Works
- Employment Agencies
- Child Labor
- Employment Preference (Local Hire)
- Plumbing Code
- Electrical Code
- Boiler/Pressure Vessel Construction Code
- Elevator Code
- Certificates of Fitness
- Recreational Devices

**Request any of the following *PUBLICATIONS* by checking below:**

- |  |   |
|--|---|
| <input type="checkbox"/> Wage and Hour Title 23 Employment Practices | <input type="checkbox"/> Public Construction Pamphlet   |
| <input type="checkbox"/> Minimum Wage & Overtime Poster              | <input type="checkbox"/> Public Construction Wage Rates |
| <input type="checkbox"/> Child Labor Poster                          | <input type="checkbox"/> Child Labor Pamphlet           |

***PLEASE NOTE: DUE TO INCREASED MAILING AND PRINTING COSTS, ONLY ONE OF EACH PUBLICATION REQUESTED WILL BE MAILED TO YOU. IF YOU WISH TO RECEIVE ADDITIONAL COPIES OR SUBSEQUENT PUBLICATIONS, PLEASE CONTACT OUR OFFICE AT (907) 269-4900.***

Name: \_\_\_\_\_

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

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

**DEPARTMENT OF LABOR & WORKFORCE DEVELOPMENT  
ALASKA EMPLOYMENT PREFERENCE INFORMATION**

By authority of AS 36.10.150 and 8 AAC 30.064, the Commissioner of Labor and Workforce Development has determined the State of Alaska to be a Zone of Underemployment. A Zone of Underemployment requires that Alaska residents who are eligible under AS 36.10.140 be given a minimum of 90 percent employment preference on public works contracts throughout the state in certain job classifications. **This 90 percent Alaska resident hiring preference applies on a project-by-project, craft-by-craft or occupational basis and must be met each workweek by each contractor/subcontractor in each of the following classifications:**

Boilermakers	Electricians	Laborers	Roofers
Bricklayers	Engineers & Architects	Mechanics	Sheet Metal Workers
Carpenters	Equipment Operators	Millwrights	Surveyors
Cement Masons	Foremen & Supervisors	Painters	Truck Drivers
Culinary Workers	Insulation Workers	Piledriving Occupations	Tug Boat Workers
	Ironworkers	Plumbers & Pipefitters	Welders

This determination became effective July 1, 2015, and remains in effect through June 30, 2017. This determination will be applied to projects with a bid submission deadline on or after July 1, 2015 and to projects previously covered by the 2013 Alaska employment preference determination. This will afford contractors an opportunity to consider the impacts of Alaska resident hire in their bids.

The first person on a certified payroll in any classification is called the "first worker" and is not required to be an Alaskan resident. However, once the contractor adds any more workers in the classification, then all workers in the classification are counted, and the 90 percent calculation is applied to compute the number of required Alaskans to be in compliance. To compute the number of Alaskan residents required in a workweek in a particular classification, multiply the total number of workers in the classification by 90 percent. The result is then rounded down to the nearest whole number to determine the number of Alaskans that must be employed in that classification.

If a worker works in more than one classification during a week, the classification in which they spent the most time would be counted for employment preference purposes. If the time is split evenly between two classifications, the worker is counted in both classifications.

If you have difficulty meeting the 90 percent requirement, an approved waiver must be obtained before a non-Alaska resident is hired who would put the contractor/subcontractor out of compliance (8 AAC 30.081 (e) (f)). The waiver process requires proof of an adequate search for qualified Alaskan workers. Qualified Alaska residents identified through the search must be hired before waivers for non-resident workers may be granted. To apply for a waiver, contact the nearest Wage and Hour Office for instructions.

Here is an example to apply the 90 percent requirement to four boilermaker workers. Multiply four workers by 90% and drop the fraction ( $.90 \times 4 = 3.6 - .6 = 3$ ). The remaining number is the number of Alaskan resident boilermakers required to be in compliance in that particular classification for that week.

The penalties for being out of compliance are serious. AS 36.10.100 (a) states "A contractor who violates a provision of this chapter shall have deducted from amounts due to the contractor under the contract the prevailing wages which should have been paid to a displaced resident and these amounts shall be retained by the contracting agency." If a contractor/subcontractor is found to be out of compliance, penalties accumulate until they come into compliance.

Contractors are responsible for determining residency status. If you have difficulty determining whether a worker is an Alaska resident, you should contact the nearest Wage and Hour Office. Contact Wage and Hour in Anchorage at (907) 269-4900, in Fairbanks at (907) 451-2886, or in Juneau at (907) 465-4842.

**Alaska Department of Labor and Workforce Development  
Labor Standards & Safety Division  
Wage and Hour Administration**

Web site: <http://labor.state.ak.us/lss/pamp600.htm>

**Anchorage**

1251 Muldoon Road, Suite 113  
Anchorage, Alaska 99504-2098  
Phone: (907) 269-4900

Email:  
anchorage.lss-wh@alaska.gov

**Juneau**

1111 W. 8<sup>th</sup> Street, Suite 302  
Juneau, Alaska 99801  
Phone: (907) 465-4842

Email:  
juneau.lss-wh@alaska.gov

**Fairbanks**

Regional State Office Building  
675 7<sup>th</sup> Ave., Station J-1  
Fairbanks, Alaska 99701-4593  
Phone: (907) 451-2886

Email:  
fairbanks.lss@alaska.gov

**DEBARMENT LIST**

**AS 36.05.090(b)** states that “the state disbursing officer or the local fiscal officer shall distribute to all departments of the state government and to all political subdivisions of the state a list giving the names of persons who have disregarded their obligations to employees.”

A person appearing on the following debarment list and a firm, corporation, partnership, or association in which the person has an interest may not work as a contractor or subcontractor on a public construction contract for the state or a political subdivision of the state for three years from the date of debarment.

Company Name

Debarment Expires

Bengal Groups, LLC	November 3, 2017
Mohammed Ali, Individual	November 3, 2017
Fry’s Services, LLC	November 16, 2017
John Paul Freie, Individual	November 16, 2017
Pyramid Audio & Video, Ltd.	June 19, 2018
Jeffrey P. Schneider, Individual	June 19, 2018

# Laborers' & Mechanics' Minimum Rates of Pay

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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## Boilermakers

<b>A0101</b>	Boilermaker (journeyman)	44.26	8.57	15.34	1.60	VAC 3.00	SAF 0.34	73.11
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## Bricklayers & Blocklayers

\*\*See note on last page if remote site

<b>A0201</b>	Blocklayer	40.81	9.53	8.50	0.55	L&M 0.15	0.49	60.03
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Bricklayer  
 Marble or Stone Mason  
 Refractory Worker (Firebrick, Plastic, Castable, and Gunitite Refractory Applications)  
 Terrazzo Worker  
 Tile Setter

<b>A0202</b>	Tuck Pointer Caulker	40.81	9.53	8.50	0.55	L&M 0.15	0.49	60.03
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Cleaner (PCC)

<b>A0203</b>	Marble & Tile Finisher	34.79	9.53	8.50	0.55	L&M 0.15	0.49	54.01
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Terrazzo Finisher

<b>A0204</b>	Torginal Applicator	38.83	9.53	8.50	0.55	L&M 0.15	0.49	58.05
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## Carpenters, Statewide

\*\*See note on last page if remote site

<b>A0301</b>	Carpenter (journeyman)	38.34	9.78	14.56	0.70	L&M 0.10	SAF 0.15	63.63
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Lather/Drywall/Acoustical

## Cement Masons, Region I (North of N63 latitude)

\*\*See note on last page if remote site

<b>N0401</b>	Group I, including:	37.50	7.43	11.80	1.18	L&M 0.10		58.01
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Application of Sealing Compound  
 Application of Underlayment  
 Building, General  
 Cement Mason (journeyman)  
 Concrete

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
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**Cement Masons, Region I (North of N63 latitude)**

\*\*See note on last page if remote site

<b>N0401</b>	Group I, including:	37.50	7.43	11.80	1.18	<b>L&amp;M</b> 0.10	58.01
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- Concrete Paving
- Curb & Gutter, Sidewalk
- Curing of All Concrete
- Grouting & Caulking of Tilt-Up Panels
- Grouting of All Plates
- Patching Concrete
- Screed Pin Setter
- Spackling/Skim Coating

<b>N0402</b>	Group II, including:	37.50	7.43	11.80	1.18	<b>L&amp;M</b> 0.10	58.01
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- Form Setter

<b>N0403</b>	Group III, including:	37.50	7.43	11.80	1.18	<b>L&amp;M</b> 0.10	58.01
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- Concrete Saw (self-powered)
- Curb & Gutter Machine
- Floor Grinder
- Pneumatic Power Tools
- Power Chipping & Bushing
- Sand Blasting Architectural Finish
- Screed & Rodding Machine Operator
- Troweling Machine Operator

<b>N0404</b>	Group IV, including:	37.50	7.43	11.80	1.18	<b>L&amp;M</b> 0.10	58.01
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- Application of All Composition Mastic
- Application of All Epoxy Material
- Application of All Plastic Material
- Finish Colored Concrete
- Gunite Nozzleman
- Hand Powered Grinder
- Tunnel Worker

<b>N0405</b>	Group V, including:	37.75	7.43	11.80	1.18	<b>L&amp;M</b> 0.10	58.26
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- Plasterer

**Cement Masons, Region II (South of N63 latitude)**

\*\*See note on last page if remote site

<b>S0401</b>	Group I, including:	37.25	7.43	11.80	1.18	<b>L&amp;M</b> 0.10	57.76
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Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Cement Masons, Region II (South of N63 latitude)**

\*\*See note on last page if remote site

							L&M	
<b>S0401</b>	Group I, including:	37.25	7.43	11.80	1.18	0.10		57.76
	Application of Sealing Compound							
	Application of Underlayment							
	Building, General							
	Cement Mason (journeyman)							
	Concrete							
	Concrete Paving							
	Curb & Gutter, Sidewalk							
	Curing of All Concrete							
	Grouting & Caulking of Tilt-Up Panels							
	Grouting of All Plates							
	Patching Concrete							
	Screed Pin Setter							
	Spackling/Skim Coating							
<b>S0402</b>	Group II, including:	37.25	7.43	11.80	1.18	0.10		57.76
	Form Setter							
<b>S0403</b>	Group III, including:	37.25	7.43	11.80	1.18	0.10		57.76
	Concrete Saw (self-powered)							
	Curb & Gutter Machine							
	Floor Grinder							
	Pneumatic Power Tools							
	Power Chipping & Bushing							
	Sand Blasting Architectural Finish							
	Screed & Rodding Machine Operator							
	Troweling Machine Operator							
<b>S0404</b>	Group IV, including:	37.25	7.43	11.80	1.18	0.10		57.76
	Application of All Composition Mastic							
	Application of All Epoxy Material							
	Application of All Plastic Material							
	Finish Colored Concrete							
	Gunite Nozzleman							
	Hand Powered Grinder							
	Tunnel Worker							
<b>S0405</b>	Group V, including:	37.50	7.43	11.80	1.18	0.10		58.01
	Plasterer							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
<b>Culinary Workers * See note on last page</b>							
A0501	Baker/Cook	25.67	7.25	6.37		LEG 0.07	39.36
A0503	General Helper	22.62	7.25	6.37		LEG 0.07	36.31
	Housekeeper						
	Janitor						
	Kitchen Helper						
A0504	Head Cook	26.22	7.25	6.37		LEG 0.07	39.91
A0505	Head Housekeeper	23.04	7.25	6.37		LEG 0.07	36.73
	Head Kitchen Help						
<b>Dredgemen</b>							
**See note on last page if remote site							
A0601	Assistant Engineer	39.26	9.95	11.05	1.00	L&M 0.10	61.36
	Craneman						
	Electrical Generator Operator (primary pump/power barge/dredge)						
	Engineer						
	Welder						
A0602	Assistant Mate (deckhand)	38.10	9.95	11.05	1.00	L&M 0.10	60.20
A0603	Fireman	38.54	9.95	11.05	1.00	L&M 0.10	60.64
A0605	Leverman Clamshell	41.79	9.95	11.05	1.00	L&M 0.10	63.89
A0606	Leverman Hydraulic	40.03	9.95	11.05	1.00	L&M 0.10	62.13
A0607	Mate & Boatman	39.26	9.95	11.05	1.00	L&M 0.10	61.36
A0608	Oiler (dredge)	38.54	9.95	11.05	1.00	L&M 0.10	60.64
<b>Electricians</b>							
A0701	Inside Cable Splicer	39.82	12.19	13.01	0.95	L&M 0.20 LEG 0.15	66.32

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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### Electricians

<b>A0702</b>	Inside Journeyman Wireman, including: Technicians	39.49	12.19	13.25	0.95	L&M	LEG	66.23
<b>A0703</b>	Power Cable Splicer	52.27	12.19	18.76	0.95	0.20	0.15	84.52
<b>A0704</b>	Tele Com Cable Splicer	47.45	12.19	15.44	0.95	L&M	LEG	76.38
<b>A0705</b>	Power Journeyman Lineman, including: Power Equipment Operator Technician	50.52	12.19	18.71	0.95	L&M	LEG	82.72
<b>A0706</b>	Tele Com Journeyman Lineman, including: Technician Tele Com Equipment Operator	45.70	12.19	18.56	0.95	L&M	LEG	77.75
<b>A0707</b>	Straight Line Installer - Repairman	45.70	12.19	15.39	0.95	L&M	LEG	74.58
<b>A0708</b>	Powderman	48.52	12.19	18.65	0.95	L&M	LEG	80.66
<b>A0710</b>	Material Handler	26.15	11.64	4.78	0.15	L&M	LEG	43.02
<b>A0712</b>	Tree Trimmer Groundman	27.17	12.19	11.04	0.15	L&M	LEG	50.85
<b>A0713</b>	Journeyman Tree Trimmer	35.84	12.19	11.30	0.15	L&M	LEG	59.78
<b>A0714</b>	Vegetation Control Sprayer	39.29	12.19	11.40	0.15	L&M	LEG	63.33
<b>A0715</b>	Inside Journeyman Communications CO/PBX	38.07	12.19	12.96	0.95	L&M	LEG	64.52

### Elevator Workers

<b>A0802</b>	Elevator Constructor	36.75	14.43	14.96	0.60	L&M	VAC	70.39
<b>A0803</b>	Elevator Constructor Mechanic	52.50	14.43	14.96	0.60	L&M	VAC	88.62

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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**Heat & Frost Insulators/Asbestos Workers**

\*\*See note on last page if remote site

<b>A0902</b>	Asbestos Abatement-Mechanical Systems	37.38	8.84	9.51	1.20		<b>SAF</b>	57.05
<b>A0903</b>	Asbestos Abatement/General Demolition All Systems	37.38	8.84	9.51	1.20		<b>SAF</b>	57.05
<b>A0904</b>	Insulator, Group II	37.38	8.84	9.51	1.20		<b>SAF</b>	57.05
<b>A0905</b>	Fire Stop	37.38	8.84	9.51	1.20		<b>SAF</b>	57.05

**IronWorkers**

\*\*See note on last page if remote site

<b>A1101</b>	Ironworkers, including:	36.25	8.33	19.87	1.57		<b>L&amp;M</b>	<b>IAF</b>	66.58
	Bender Operators								
	Bridge & Structural								
	Machinery Mover								
	Ornamental								
	Reinforcing								
	Rigger								
	Sheeter								
	Signalman								
	Stage Rigger								
	Toxic Haz-Mat Work								
	Welder								
<b>A1102</b>	Helicopter	37.25	8.33	19.87	1.57		<b>L&amp;M</b>	<b>IAF</b>	67.58
	Tower (energy producing windmill type towers to include nacelle and blades)								
<b>A1103</b>	Fence/Barrier Installer	32.75	8.33	19.62	1.47		<b>L&amp;M</b>	<b>IAF</b>	62.73
	Guard Rail Installer								
<b>A1104</b>	Guard Rail Layout Man	33.49	8.33	19.62	1.47		<b>L&amp;M</b>	<b>IAF</b>	63.47

**Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**

\*\*See note on last page if remote site

<b>N1201</b>	Group I, including:	30.00	7.71	17.06	1.20		<b>L&amp;M</b>	<b>LEG</b>	56.37
	Asphalt Worker (shovelman, plant crew)								

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**

\*\*See note on last page if remote site

					L&M	LEG	
<b>N1201</b>	Group I, including:	30.00	7.71	17.06	1.20	0.20	0.20 56.37
	Brush Cutter						
	Camp Maintenance Laborer						
	Carpenter Tender or Helper						
	Choke Setter, Hook Tender, Rigger, Signalman						
	Concrete Labor (curb & gutter, chute handler, grouting, curing, screeding)						
	Crusher Plant Laborer						
	Demolition Laborer						
	Ditch Digger						
	Dumpman						
	Environmental Laborer (hazard/toxic waste, oil spill)						
	Fence Installer						
	Fire Watch Laborer						
	Flagman						
	Form Stripper						
	General Laborer						
	Guardrail Laborer, Bridge Rail Installer						
	Hydro-seeder Nozzleman						
	Laborer, Building						
	Landscaper or Planter						
	Laying of Mortarless Decorative Block (retaining walls, flowered decorative block 4 feet or less - highway or landscape work)						
	Material Handler						
	Pneumatic or Power Tools						
	Portable or Chemical Toilet Serviceman						
	Pump Man or Mixer Man						
	Railroad Track Laborer						
	Sandblast, Pot Tender						
	Saw Tender						
	Slurry Work						
	Steam Cleaner Operator						
	Steam Point or Water Jet Operator						
	Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)						
	Tank Cleaning						
	Utiliwalk & Utilidor Laborer						
	Watchman (construction projects)						
	Window Cleaner						

					L&M	LEG	
<b>N1202</b>	Group II, including:	31.00	7.71	17.06	1.20	0.20	0.20 57.37

- Burning & Cutting Torch
- Cement or Lime Dumper or Handler (sack or bulk)

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**

\*\*See note on last page if remote site

					L&M	LEG	
<b>N1202</b>	Group II, including:	31.00	7.71	17.06	1.20	0.20	0.20 57.37
	Certified Erosion Sediment Control Lead (CESCL Laborer)						
	Choker Splicer						
	Chucktender (wagon, air-track & hydraulic drills)						
	Concrete Laborer (power buggy, concrete saws, pumpcrete nozzleman, vibratorman)						
	Culvert Pipe Laborer						
	Cured Inplace Pipelayer						
	Environmental Laborer (asbestos, marine work)						
	Foam Gun or Foam Machine Operator						
	Green Cutter (dam work)						
	Gunite Operator						
	Hod Carrier						
	Jackhammer or Pavement Breaker (more than 45 pounds)						
	Laser Instrument Operator						
	Laying of Mortarless Decorative Block (retaining walls, flowered decorative block over 4 feet - highway or landscape work)						
	Mason Tender & Mud Mixer (sewer work)						
	Pilot Car						
	Pipelayer Helper						
	Plasterer, Bricklayer & Cement Finisher Tender						
	Powderman Helper						
	Power Saw Operator						
	Railroad Switch Layout Laborer						
	Sandblaster						
	Scaffold Building & Erecting						
	Sewer Caulker						
	Sewer Plant Maintenance Man						
	Thermal Plastic Applicator						
	Timber Faller, Chainsaw Operator, Filer						
	Timberman						

					L&M	LEG	
<b>N1203</b>	Group III, including:	31.90	7.71	17.06	1.20	0.20	0.20 58.27
	Bit Grinder						
	Camera/Tool/Video Operator						
	Guardrail Machine Operator						
	High Rigger & Tree Topper						
	High Scaler						
	Multiplate						
	Plastic Welding						
	Slurry Seal Squeegee Man						
	Traffic Control Supervisor						

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**

\*\*See note on last page if remote site

<b>N1203</b> Group III, including:	31.90	7.71	17.06	1.20	<b>L&amp;M</b>	<b>LEG</b>	58.27
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Welding Certified (in connection with laborer's work)

<b>N1204</b> Group IIIA	35.18	7.71	17.06	1.20	<b>L&amp;M</b>	<b>LEG</b>	61.55
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Asphalt Raker, Asphalt Belly Dump Lay Down  
 Drill Doctor (in the field)  
 Driller (including, but not limited to, wagon drills, air-track drills, hydraulic drills)  
 Licensed Powderman  
 Pioneer Drilling & Drilling Off Tugger (all type drills)  
 Pipelayers  
 Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)

<b>N1205</b> Group IV	19.57	7.71	17.06	1.20	<b>L&amp;M</b>	<b>LEG</b>	45.94
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Final Building Cleanup  
 Permanent Yard Worker

<b>N1206</b> Group IIIB	38.72	5.00	17.06	1.20	<b>L&amp;M</b>	<b>LEG</b>	62.38
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Federally Licensed Powderman (Responsible Person in Charge)  
 Grade Checking (setting or transferring of grade marks, line and grade, Stake Hopper)

**Laborers (The area that is south of N63 latitude and west of W138 longitude)**

\*\*See note on last page if remote site

<b>S1201</b> Group I, including:	30.00	7.71	17.06	1.20	<b>L&amp;M</b>	<b>LEG</b>	56.37
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Asphalt Worker (shovelman, plant crew)  
 Brush Cutter  
 Camp Maintenance Laborer  
 Carpenter Tender or Helper  
 Choke Setter, Hook Tender, Rigger, Signalman  
 Concrete Labor (curb & gutter, chute handler, grouting, curing, screeding)  
 Crusher Plant Laborer  
 Demolition Laborer  
 Ditch Digger  
 Dumpman  
 Environmental Laborer (hazard/toxic waste, oil spill)  
 Fence Installer  
 Fire Watch Laborer  
 Flagman

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Laborers (The area that is south of N63 latitude and west of W138 longitude)**

\*\*See note on last page if remote site

					L&M	LEG	
<b>S1201</b>	Group I, including:	30.00	7.71	17.06	1.20	0.20	0.20 56.37
	Form Stripper						
	General Laborer						
	Guardrail Laborer, Bridge Rail Installer						
	Hydro-seeder Nozzleman						
	Laborer, Building						
	Landscaper or Planter						
	Laying of Mortarless Decorative Block (retaining walls, flowered decorative block 4 feet or less - highway or landscape work)						
	Material Handler						
	Pneumatic or Power Tools						
	Portable or Chemical Toilet Serviceman						
	Pump Man or Mixer Man						
	Railroad Track Laborer						
	Sandblast, Pot Tender						
	Saw Tender						
	Slurry Work						
	Steam Cleaner Operator						
	Steam Point or Water Jet Operator						
	Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)						
	Tank Cleaning						
	Utiliwalk & Utilidor Laborer						
	Watchman (construction projects)						
	Window Cleaner						
<b>S1202</b>	Group II, including:	31.00	7.71	17.06	1.20	0.20	0.20 57.37
	Burning & Cutting Torch						
	Cement or Lime Dumper or Handler (sack or bulk)						
	Certified Erosion Sediment Control Lead (CESCL Laborer)						
	Choker Splicer						
	Chucktender (wagon, air-track & hydraulic drills)						
	Concrete Laborer (power buggy, concrete saws, pumpcrete nozzleman, vibratorman)						
	Culvert Pipe Laborer						
	Cured Inplace Pipelayer						
	Environmental Laborer (asbestos, marine work)						
	Foam Gun or Foam Machine Operator						
	Green Cutter (dam work)						
	Gunite Operator						
	Hod Carrier						
	Jackhammer or Pavement Breaker (more than 45 pounds)						

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Laborers (The area that is south of N63 latitude and west of W138 longitude)**

\*\*See note on last page if remote site

						L&M	LEG	
<b>S1202</b>	Group II, including:	31.00	7.71	17.06	1.20	0.20	0.20	57.37

- Laser Instrument Operator
- Laying of Mortarless Decorative Block (retaining walls, flowered decorative block over 4 feet - highway or landscape work)
- Mason Tender & Mud Mixer (sewer work)
- Pilot Car
- Pipelayer Helper
- Plasterer, Bricklayer & Cement Finisher Tender
- Powderman Helper
- Power Saw Operator
- Railroad Switch Layout Laborer
- Sandblaster
- Scaffold Building & Erecting
- Sewer Caulker
- Sewer Plant Maintenance Man
- Thermal Plastic Applicator
- Timber Faller, Chainsaw Operator, Filer
- Timberman

						L&M	LEG	
<b>S1203</b>	Group III, including:	31.90	7.71	17.06	1.20	0.20	0.20	58.27

- Bit Grinder
- Camera/Tool/Video Operator
- Guardrail Machine Operator
- High Rigger & Tree Topper
- High Scaler
- Multiplate
- Plastic Welding
- Slurry Seal Squeegee Man
- Traffic Control Supervisor
- Welding Certified (in connection with laborer's work)

						L&M	LEG	
<b>S1204</b>	Group IIIA	35.18	7.71	17.06	1.20	0.20	0.20	61.55

- Asphalt Raker, Asphalt Belly Dump Lay Down
- Drill Doctor (in the field)
- Driller (including, but not limited to, wagon drills, air-track drills, hydraulic drills)
- Licensed Powderman
- Pioneer Drilling & Drilling Off Tugger (all type drills)
- Pipelayers
- Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Laborers (The area that is south of N63 latitude and west of W138 longitude)**

\*\*See note on last page if remote site

						L&M	LEG	
<b>S1205</b>	Group IV	19.57	7.71	17.06	1.20	0.20	0.20	45.94
	Final Building Cleanup							
	Permanent Yard Worker							

						L&M	LEG	
<b>S1206</b>	Group IIIB	38.72	5.00	17.06	1.20	0.20	0.20	62.38
	Federally Licensed Powderman (Responsible Person in Charge)							
	Grade Checking (setting or transferring of grade marks, line and grade, Stake Hopper)							

**Millwrights**

						L&M		
<b>A1251</b>	Millwright (journeyman)	36.74	9.78	12.21	1.00	0.40	0.05	60.18

						L&M		
<b>A1252</b>	Millwright Welder	37.74	9.78	12.21	1.00	0.40	0.05	61.18

**Painters, Region I (North of N63 latitude)**

\*\*See note on last page if remote site

						L&M		
<b>N1301</b>	Group I, including:	32.07	8.03	11.10	1.08	0.07		52.35
	Brush							
	General Painter							
	Hand Taping							
	Hazardous Material Handler							
	Lead-Based Paint Abatement							
	Roll							

						L&M		
<b>N1302</b>	Group II, including:	32.59	8.03	11.10	1.08	0.07		52.87
	Bridge Painter							
	Epoxy Applicator							
	General Drywall Finisher							
	Hand/Spray Texturing							
	Industrial Coatings Specialist							
	Machine/Automatic Taping							
	Pot Tender							
	Sandblasting							
	Specialty Painter							
	Spray							
	Structural Steel Painter							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
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**Painters, Region I (North of N63 latitude)**

\*\*See note on last page if remote site

<b>N1302</b>	Group II, including:	32.59	8.03	11.10	1.08	<b>L&amp;M</b> 0.07	52.87
	Wallpaper/Vinyl Hanger						
<b>N1304</b>	Group IV, including:	38.13	8.03	12.11	1.05	0.05	59.37
	Glazier						
	Storefront/Automatic Door Mechanic						
<b>N1305</b>	Group V, including:	29.31	8.03	5.02	0.83	0.07	43.26
	Carpet Installer						
	Floor Coverer						
	Heat Weld/Cove Base						
	Linoleum/Soft Tile Installer						

**Painters, Region II (South of N63 latitude)**

\*\*See note on last page if remote site

<b>S1301</b>	Group I, including :	30.31	8.03	10.85	1.08	<b>L&amp;M</b> 0.07	50.34
	Brush						
	General Painter						
	Hand Taping						
	Hazardous Material Handler						
	Lead-Based Paint Abatement						
	Roll						
	Spray						
<b>S1302</b>	Group II, including :	31.56	8.03	10.85	1.08	<b>L&amp;M</b> 0.07	51.59
	General Drywall Finisher						
	Hand/Spray Texturing						
	Machine/Automatic Taping						
	Wallpaper/Vinyl Hanger						
<b>S1303</b>	Group III, including :	31.66	8.03	10.85	1.08	<b>L&amp;M</b> 0.07	51.69
	Bridge Painter						
	Epoxy Applicator						
	Industrial Coatings Specialist						
	Pot Tender						
	Sandblasting						
	Specialty Painter						
	Structural Steel Painter						

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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**Painters, Region II (South of N63 latitude)**

\*\*See note on last page if remote site

						L&M		
<b>S1304</b>	Group IV, including:	38.13	8.03	11.36	1.08	0.07	58.67	
	Glazier							
	Storefront/Automatic Door Mechanic							

						L&M		
<b>S1305</b>	Group V, including:	29.31	8.03	5.02	0.83	0.07	43.26	
	Carpet Installer							
	Floor Coverer							
	Heat Weld/Cove Base							
	Linoleum/Soft Tile Installer							

**Piledrivers**

\*\*See note on last page if remote site

						L&M	IAF	
<b>A1401</b>	Piledriver	38.34	9.78	14.56	0.70	0.10	0.15	63.63
	Assistant Dive Tender							
	Carpenter/Piledriver							
	Rigger							
	Sheet Stabber							
	Skiff Operator							

						L&M	IAF	
<b>A1402</b>	Piledriver-Welder/Toxic Worker	39.34	9.78	14.56	0.70	0.10	0.15	64.63

						L&M	IAF	
<b>A1403</b>	Remotely Operated Vehicle Pilot/Technician	42.65	9.78	14.56	0.70	0.10	0.15	67.94
	Single Atmosphere Suit, Bell or Submersible Pilot							

						L&M	IAF	
<b>A1404</b>	Diver (working) ***See note on last page	82.45	9.78	14.56	0.70	0.10	0.15	107.74

						L&M	IAF	
<b>A1405</b>	Diver (standby) ***See note on last page	42.65	9.78	14.56	0.70	0.10	0.15	67.94

						L&M	IAF	
<b>A1406</b>	Dive Tender ***See note on last page	41.65	9.78	14.56	0.70	0.10	0.15	66.94

						L&M	IAF	
<b>A1407</b>	Welder (American Welding Society, Certified Welding Inspector)	43.90	9.78	14.56	0.70	0.10	0.15	69.19

**Plumbers, Region I (North of N63 latitude)**

						L&M	S&L	
<b>N1501</b>	Journeyman Pipefitter	40.81	8.25	14.60	1.25	1.10	66.01	
	Plumber							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Plumbers, Region I (North of N63 latitude)**

<b>N1501</b>	Journeyman Pipefitter	40.81	8.25	14.60	1.25	L&M	S&L	66.01
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Welder

**Plumbers, Region II (South of N63 latitude)**

<b>S1501</b>	Journeyman Pipefitter	39.85	8.88	12.72	1.25	L&M		62.90
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Plumber

Welder

**Plumbers, Region IIA (1st Judicial District)**

<b>X1501</b>	Journeyman Pipefitter	37.52	12.72	11.25	2.50	L&M		64.23
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Plumber

Welder

**Power Equipment Operators**  
 \*\*See note on last page if remote site

<b>A1601</b>	Group I, including:	40.03	9.95	11.05	1.00	L&M		62.13
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- Asphalt Roller: Breakdown, Intermediate, and Finish
- Back Filler
- Barrier Machine (Zipper)
- Beltcrete with Power Pack & similar conveyors
- Bending Machine
- Boat Coxswain
- Bulldozer
- Cableways, Highlines & Cablecars
- Cleaning Machine
- Coating Machine
- Concrete Hydro Blaster
- Cranes (45 tons & under or 150 feet of boom & under (including jib & attachments))
  - (a) Hydralifts or Transporters, (all track or truck type)
  - (b) Derricks
  - (c) Overhead
- Crushers
- Deck Winches, Double Drum
- Ditching or Trenching Machine (16 inch or over)

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Power Equipment Operators**

\*\*See note on last page if remote site

					<b>L&amp;M</b>	
<b>A1601</b> Group I, including:	40.03	9.95	11.05	1.00	0.10	62.13
Drag Scraper, Yarder, and similar types						
Drilling Machines, Core, Cable, Rotary and Exploration						
Finishing Machine Operator, Concrete Paving, Laser Screed, Sidewalk, Curb & Gutter Machine						
Helicopters						
Hover Craft, Flex Craft, Loadmaster, Air Cushion, All-Terrain Vehicle, Rollagon, Bargecable, Nodwell, & Snow Cat						
Hydro Ax, Feller Buncher & similar						
Hydro Excavation (Vac-Truck and Similar)						
Licensed Line & Grade						
Loaders (2 1/2 yards through 5 yards, including all attachments):						
(a) Forklifts (with telescopic boom & swing attachment)						
(b) Front End & Overhead, (2-1/2 yards through 5 yards)						
(c) Loaders, (with forks or pipe clamp)						
(d) Loaders, (elevating belt type, Euclid & similar types)						
Material Transfer Vehicle (Elevating Grader, Pickup Machine, and similar types)						
Mechanic, Welder, Bodyman, Electrical, Camp & Maintenance Engineer						
Micro Tunneling Machine						
Mixers: Mobile type with hoist combination						
Motor Patrol Grader						
Mucking Machine: Mole, Tunnel Drill, Horizontal/Directional Drill Operator and/or Shield						
Operator on Dredges						
Piledriver Engineer, L.B. Foster, Puller or similar paving breaker						
Plant Operator (Asphalt & Concrete)						
Power Plant, Turbine Operator 200 k.w & over (power plants or combination of power units over 300 k.w.)						
Remote Controlled Equipment						
Scraper (through 40 yards)						
Service Oiler/Service Engineer						
Shot Blast Machine						
Shovels, Backhoes, Excavators with all attachments, and Gradealls (3 yards & under)						
Sideboom (under 45 tons)						
Spreaders Topside (Asphalt Paver, Slurry machine, and similar types)						
Sub Grader (Gurries, Reclaimer & similar types)						
Tack Tractor						
Truck Mounted Concrete Pump, Conveyor/Tele-belt, & Creter						
Unlicensed Off-Road Hauler						
Wate Kote Machine						

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Power Equipment Operators**

\*\*See note on last page if remote site

<b>A1602</b> Group IA, including:	41.79	9.95	11.05	1.00	0.10	<b>L&amp;M</b>	63.89
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- Camera/Tool/Video Operator (Slipline)
- Certified Welder, Electrical Mechanic, Camp Maintenance Engineer, Mechanic (over 10,000 hours)
- Cranes (over 45 tons or 150 feet including jib & attachments)
  - (a) Clamshells & Draglines (over 3 yards)
  - (b) Tower Cranes
- Licensed Water/Waste Water Treatment Operator
- Loaders (over 5 yards)
- Motor Patrol Grader, Dozer, Grade Tractor, Roto-Mill/Profiler (finish: when finishing to final grade and/or to hubs, or for asphalt)
- Power Plants (1000 k.w. & over)
- Quad
- Scrapers (over 40 yards)
- Screed
- Shovels, Backhoes, Excavators with all attachments (over 3 yards)
- Sidebooms (over 45 tons)
- Slip Form Paver, C.M.I. & similar types

<b>A1603</b> Group II, including:	39.26	9.95	11.05	1.00	0.10	<b>L&amp;M</b>	61.36
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- Boiler - Fireman
- Cement Hogs & Concrete Pump Operator
- Conveyors (except those listed in Group I)
- Grade Checker
- Hoists on Steel Erection, Towermobiles & Air Tuggers
- Horizontal/Directional Drill Locator
- Licensed Grade Technician
- Locomotives, Rod & Geared Engines
- Mixers
- Screening, Washing Plant
- Sideboom (cradling rock drill, regardless of size)
- Skidder
- Trenching Machines (under 16 inches)
- Water/Waste Water Treatment Operator

<b>A1604</b> Group III, including:	38.54	9.95	11.05	1.00	0.10	<b>L&amp;M</b>	60.64
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- "A" Frame Trucks, Deck Winches
- Bombardier (tack or tow rig)
- Boring Machine
- Brooms, Power
- Bump Cutter

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Power Equipment Operators**

\*\*See note on last page if remote site

						L&M	
<b>A1604</b>	Group III, including:	38.54	9.95	11.05	1.00	0.10	60.64
	Compressor						
	Farm Tractor						
	Forklift, Industrial Type						
	Gin Truck or Winch Truck (with poles when used for hoisting)						
	Hoists, Air Tuggers, Elevators						
	Loaders:						
	(a) Elevating-Athey, Barber Greene & similar types						
	(b) Forklifts or Lumber Carrier (on construction job sites)						
	(c) Forklifts, (with tower)						
	(d) Overhead & Front End, (under 2-1/2 yards)						
	Locomotives: Dinkey (air, steam, gas & electric) Speeders						
	Mechanics, Light Duty						
	Oil, Blower Distribution						
	Posthole Digger, Mechanical						
	Pot Fireman (power agitated)						
	Power Plant, Turbine Operator, (under 200 k.w.)						
	Pumps, Water						
	Roller (other than Asphalt)						
	Saws, Concrete						
	Skid Hustler						
	Skid Steer (with all attachments)						
	Stake Hopper						
	Straightening Machine						
	Tow Tractor						

						L&M	
<b>A1605</b>	Group IV, including:	32.33	9.95	11.05	1.00	0.10	54.43
	Crane Assistant Engineer/Rig Oiler						
	Drill Helper						
	Parts & Equipment Coordinator						
	Spotter						
	Steam Cleaner						
	Swamper (on trenching machines or shovel type equipment)						

**Roofers**

\*\*See note on last page if remote site

						L&M	
<b>A1701</b>	Rofer & Waterproofer	42.62	11.75	2.91	0.81	0.10	0.03 58.22
<b>A1702</b>	Rofer Material Handler	29.83	11.75	2.91	0.81	0.10	0.03 45.43

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Sheet Metal Workers, Region I (North of N63 latitude)**

						<b>L&amp;M</b>	
<b>N1801</b>	Sheet Metal Journeyman	47.13	10.16	10.64	1.45	0.12	69.50

- Air Balancing and duct cleaning of HVAC systems
- Brazing, soldering or welding of metals
- Demolition of sheet metal HVAC systems
- Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work
- Fabrication and installation of heating, ventilation and air conditioning ducts and equipment
- Fabrication and installation of louvers and hoods
- Fabrication and installation of sheet metal lagging
- Fabrication and installation of stainless steel commercial or industrial food service equipment
- Manufacture, fabrication assembly, installation and alteration of all ferrous and nonferrous metal work
- Metal lavatory partitions
- Preparation of drawings taken from architectural and engineering plans required for fabrication and erection of sheet metal work
- Sheet Metal shelving
- Sheet Metal venting, chimneys and breaching
- Skylight installation

**Sheet Metal Workers, Region II (South of N63 latitude)**

						<b>L&amp;M</b>	
<b>S1801</b>	Sheet Metal Journeyman	41.38	10.16	12.25	1.22	0.37	65.38

- Air Balancing and duct cleaning of HVAC systems
- Brazing, soldering or welding of metals
- Demolition of sheet metal HVAC systems
- Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work
- Fabrication and installation of heating, ventilation and air conditioning ducts and equipment
- Fabrication and installation of louvers and hoods
- Fabrication and installation of sheet metal lagging
- Fabrication and installation of stainless steel commercial or industrial food service equipment
- Manufacture, fabrication assembly, installation and alteration of all ferrous and nonferrous metal work
- Metal lavatory partitions
- Preparation of drawings taken from architectural and engineering plans required for fabrication and erection of sheet metal work
- Sheet Metal shelving
- Sheet Metal venting, chimneys and breaching

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
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**Sheet Metal Workers, Region II (South of N63 latitude)**

<b>S1801</b>	Sheet Metal Journeyman	41.38	10.16	12.25	1.22	<b>L&amp;M</b> 0.37	65.38
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Skylight installation

**Sprinkler Fitters**

<b>A1901</b>	Sprinkler Fitter	44.75	8.77	13.35	0.45	<b>L&amp;M</b> 0.25	67.57
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**Surveyors**

\*\*See note on last page if remote site

<b>A2001</b>	Chief of Parties	42.81	10.58	10.39	1.35	<b>L&amp;M</b> 0.10	65.23
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<b>A2002</b>	Party Chief	41.22	10.58	10.39	1.35	<b>L&amp;M</b> 0.10	63.64
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<b>A2003</b>	Line & Grade Technician/Office Technician	40.62	10.58	10.39	1.35	<b>L&amp;M</b> 0.10	63.04
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<b>A2004</b>	Associate Party Chief (including Instrument Person & Head Chain Person)	38.50	10.58	10.39	1.35	<b>L&amp;M</b> 0.10	60.92
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<b>A2005</b>	Stake Hop/Grademan	35.57	10.58	10.39	1.35	<b>L&amp;M</b> 0.10	57.99
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<b>A2006</b>	Chain Person (for crews with more than 2 people)	34.16	10.58	10.39	1.35	<b>L&amp;M</b> 0.10	56.58
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**Truck Drivers**

\*\*See note on last page if remote site

<b>A2101</b>	Group I, including:	39.59	10.58	10.39	1.35	<b>L&amp;M</b> 0.10	62.01
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- Air/Sea Traffic Controllers
- Ambulance/Fire Truck Driver (EMT certified)
- Boat Coxswain
- Captains & Pilots (air & water)
- Deltas, Commanders, Rollagons, & similar equipment (when pulling sleds, trailers or similar equipment)
- Dump Trucks (including rockbuggy & trucks with pups) over 40 yards up to & including 60 yards
- Helicopter Transporter
- Lowboys, including attached trailers & jeeps, up to & including 12 axles (over 12 axles or 150 tons to be negotiated)

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Truck Drivers**

\*\*See note on last page if remote site

						L&M	
<b>A2101</b>	Group I, including:	39.59	10.58	10.39	1.35	0.10	62.01
	Material Coordinator and Purchasing Agent						
	Ready-mix (over 12 yards up to & including 15 yards) (over 15 yards to be negotiated)						
	Semi with Double Box Mixer						
	Tireman, Heavy Duty/Fueler						
	Water Wagon (250 Bbls and above)						
<b>A2102</b>	Group 1A including:	40.86	10.58	10.39	1.35	0.10	63.28
	Dump Trucks (including rockbuggy & trucks with pups) over 60 yards up to & including 100 yards (over 100 yards to be negotiated)						
	Jeeps (driver under load)						
<b>A2103</b>	Group II, including:	38.33	10.58	10.39	1.35	0.10	60.75
	All Deltas, Commanders, Rollagons, & similar equipment						
	Boom Truck/Knuckle Truck (over 5 tons)						
	Construction and Material Safety Technician						
	Dump Trucks (including rockbuggy & trucks with pups) over 20 yards up to & including 40 yards						
	Gin Pole Truck, Winch Truck, Wrecker (truck mounted "A" frame manufactured rating over 5 tons)						
	Lowboys (including attached trailers & jeeps up to & including 8 axles)						
	Mechanics						
	Partsman						
	Ready-mix (over 7 yards up to & including 12 yards)						
	Stringing Truck						
	Super Vac Truck/Cacasco Truck/Heat Stress Truck						
	Turn-O-Wagon or DW-10 (not self loading)						
<b>A2104</b>	Group III, including:	37.51	10.58	10.39	1.35	0.10	59.93
	Batch Trucks (8 yards & up)						
	Boom Truck/Knuckle Truck (up to & including 5 tons)						
	Dump Trucks (including rockbuggy & trucks with pups) over 10 yards up to & including 20 yards						
	Expeditor (electrical & pipefitting materials)						
	Gin Pole Truck, Winch Truck, Wrecker (truck mounted "A" frame manufactured rating 5 tons & under)						
	Greaser - Shop						
	Oil Distributor Driver						
	Thermal Plastic Layout Technician						
	Traffic Control Technician						

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Truck Drivers**

\*\*See note on last page if remote site

<b>A2104</b> Group III, including:	37.51	10.58	10.39	1.35	0.10	<b>L&amp;M</b>	59.93
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Trucks/Jeeps (push or pull)

<b>A2105</b> Group IV, including:	36.93	10.58	10.39	1.35	0.10	<b>L&amp;M</b>	59.35
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- Air Cushion or similar type vehicle
- All Terrain Vehicle
- Buggymobile
- Bull Lift & Fork Lift, Fork Lift with Power Boom & Swing Attachment (over 5 tons)
- Bus Operator (over 30 passengers)
- Combination Truck-Fuel & Grease
- Compactor (when pulled by rubber tired equipment)
- Dump Trucks (including Rockbuggy & trucks with pups up to & including 10 yards)
- Dumpster
- Expeditor (general)
- Fire Truck/Ambulance Driver
- Flat Beds, Dual Rear Axle
- Foam Distributor Truck Dual Axle
- Front End Loader with Fork
- Grease Truck
- Hydro Seeder, Dual Axle
- Hyster Operators (handling bulk aggregate)
- Loadmaster (air & water operations)
- Lumber Carrier
- Ready-mix, (up to & including 7 yards)
- Rigger (air/water/oilfield)
- Semi or Truck & Trailer
- Tireman, Light Duty
- Track Truck Equipment
- Vacuum Truck, Truck Vacuum Sweeper
- Warehouseperson
- Water Truck (Below 250 Bbls)
- Water Truck, Dual Axle
- Water Wagon, Semi

<b>A2106</b> Group V, including:	36.17	10.58	10.39	1.35	0.10	<b>L&amp;M</b>	58.59
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- Batch Truck (up to & including 7 yards)
- Buffer Truck
- Bull Lifts & Fork Lifts, Fork Lifts with Power Boom & Swing Attachments (up to & including 5 tons)

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Truck Drivers**  
 \*\*See note on last page if remote site

						L&M	
<b>A2106</b>	Group V, including:	36.17	10.58	10.39	1.35	0.10	58.59
	Bus Operator (up to 30 passengers)						
	Farm Type Rubber Tired Tractor (when material handling or pulling wagons on a construction project)						
	Flat Beds, Single Rear Axle						
	Foam Distributor Truck Single Axle						
	Fuel Handler (station/bulk attendant)						
	Gear/Supply Truck						
	Gravel Spreader Box Operator on Truck						
	Hydro Seeders, Single axle						
	Pickups (pilot cars & all light-duty vehicles)						
	Rigger/Swamper						
	Tack Truck						
	Team Drivers (horses, mules, & similar equipment)						

**Tunnel Workers, Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**  
 \*\*See note on last page if remote site

						L&M	LEG
<b>N2201</b>	Group I, including:	33.00	7.71	17.06	1.20	0.20	59.37
	Brakeman						
	Mucker						
	Nipper						
	Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)						
	Topman & Bull Gang						
	Tunnel Track Laborer						

						L&M	LEG
<b>N2202</b>	Group II, including:	34.10	7.71	17.06	1.20	0.20	60.47
	Burning & Cutting Torch						
	Certified Erosion Sediment Control Lead (CESCL Laborer)						
	Concrete Laborer						
	Jackhammer						
	Laser Instrument Operator						
	Nozzlemen, Pumpcrete or Shotcrete						
	Pipelayer Helper						

						L&M	LEG
<b>N2203</b>	Group III, including:	35.09	7.71	17.06	1.20	0.20	61.46
	Miner						
	Retimberman						

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Tunnel Workers, Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**

\*\*See note on last page if remote site

					<b>L&amp;M</b>	<b>LEG</b>	
<b>N2204</b>	Group IIIA, including:	38.70	7.71	17.06	1.20	0.20	65.07
	Asphalt Raker, Asphalt Belly Dump Lay Down						
	Drill Doctor (in the field)						
	Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)						
	Licensed Powderman						
	Pioneer Drilling & Drilling Off Tugger (all type drills)						
	Pipelayer						
	Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)						

					<b>L&amp;M</b>	<b>LEG</b>	
<b>N2206</b>	Group IIIB, including:	42.59	5.00	17.06	1.20	0.20	66.25
	Federally Licensed Powderman (Responsible Person in Charge)						
	Grade Checking (setting or transferring of grade marks, line and grade, Stake Hopper)						

**Tunnel Workers, Laborers (The area that is south of N63 latitude and west of W138 longitude)**

\*\*See note on last page if remote site

					<b>L&amp;M</b>	<b>LEG</b>	
<b>S2201</b>	Group I, including:	33.00	7.71	17.06	1.20	0.20	59.37
	Brakeman						
	Mucker						
	Nipper						
	Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)						
	Topman & Bull Gang						
	Tunnel Track Laborer						

					<b>L&amp;M</b>	<b>LEG</b>	
<b>S2202</b>	Group II, including:	34.10	7.71	17.06	1.20	0.20	60.47
	Burning & Cutting Torch						
	Certified Erosion Sediment Control Lead (CESCL Laborer)						
	Concrete Laborer						
	Jackhammer						
	Laser Instrument Operator						
	Nozzlemen, Pumpcrete or Shotcrete						
	Pipelayer Helper						

					<b>L&amp;M</b>	<b>LEG</b>	
<b>S2203</b>	Group III, including:	35.09	7.71	17.06	1.20	0.20	61.46
	Miner						
	Retimberman						

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Tunnel Workers, Laborers (The area that is south of N63 latitude and west of W138 longitude)**  
 \*\*See note on last page if remote site

						L&M	LEG	
<b>S2204</b>	Group IIIA, including:	38.70	7.71	17.06	1.20	0.20	0.20	65.07
	Asphalt Raker, Asphalt Belly Dump Lay Down							
	Drill Doctor (in the field)							
	Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)							
	Licensed Powderman							
	Pioneer Drilling & Drilling Off Tugger (all type drills)							
	Pipelayer							
	Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)							

						L&M	LEG	
<b>S2206</b>	Group IIIB, including:	42.59	5.00	17.06	1.20	0.20	0.20	66.25
	Federally Licensed Powderman (Responsible Person in Charge)							
	Grade Checking (setting or transferring of grade marks, line and grade, Stake Hopper)							

**Tunnel Workers, Power Equipment Operators**  
 \*\*See note on last page if remote site

						L&M		
<b>A2207</b>	Group I	44.03	9.95	11.05	1.00	0.10		66.13
<b>A2208</b>	Group IA	45.97	9.95	11.05	1.00	0.10		68.07
<b>A2209</b>	Group II	43.19	9.95	11.05	1.00	0.10		65.29
<b>A2210</b>	Group III	42.39	9.95	11.05	1.00	0.10		64.49
<b>A2211</b>	Group IV	35.56	9.95	11.05	1.00	0.10		57.66

\* A remote site is isolated and relatively distant from the amenities of civilization, and usually far from the employee's home. As a condition of employment, the workers must eat, sleep, and socialize at the worksite and remain there for extended periods.

\*\* This classification must receive board and lodging under certain conditions. A per diem option of \$75 is an alternative to providing meals and lodging. See Page v for an explanation.

\*\*\* Work in combination of classifications: Employees working in any combination of classifications within the diving crew (working diver, standby diver, and tender) in a shift are paid in the classification with the highest rate for a minimum of 8 hours per shift.

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**CITY OF WHITTIER, ALASKA**  
**RE-POWER WELL HOUSES #1, 2 & 3**

**VI.**

**DRAWINGS**

# CITY OF WHITTIER, ALASKA

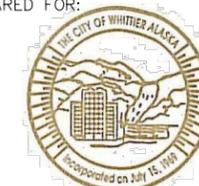
## RE-POWER WELL HOUSES #1, 2 & 3

### SEPTEMBER 2016

SCHEDULE OF DRAWINGS	
<b>GENERAL</b>	
G1	COVER
<b>ELECTRICAL</b>	
E1	ELECTRICAL LEGEND, ABBREVIATIONS, LUMINAIRE SCHEDULE & SCOPE OF WORK
E2	ELECTRICAL SPECIFICATIONS
E3	ELECTRICAL DEMOLITION PLAN
E4	ELECTRICAL SITE PLAN
E5	POWERONE-LINE & PANEL SCHEDULES



PREPARED FOR:



**CITY OF WHITTIER**

PREPARED BY:



3940 ARCTIC BLVD. SUITE 300  
 ANCHORAGE, ALASKA 99503  
 PHONE: (907) 562-3252  
 FAX: (907) 561-2273

File: j:\basdata\20402.00 Whittier Re-Power Well Houses\00 CADD\01 Working Set\03 Electrical\20402.00 ELECTRICAL LEGEND & SPECS.dwg PLOT DATE: 9/16/2016 1:24 AM

### LEGEND

-  BUS
-  EXPOSED CONDUIT
-  CONDUIT/CABLE RUN UNDERGROUND OR IN CONCRETE
-  HOMERUN TO PANEL "X", CIRCUITS NO. Y AND Z  
CONDUIT RUNS NOT DEFINED ARE 1/2" C with 3#12.
-  GROUND
-  CONDUIT RUN - CHANGE IN ELEVATION
-  GROUND ROD
-  SPECIAL RECEPTACLE / PLUG
-  TRANSFORMER
-  MOTOR, HP AS SHOWN, THREE PHASE
-  MANUAL TRANSFER SWITCH
-  PANELBOARD
-  DISCONNECT SWITCH
-  KILOWATT-HOUR METER WITH CT
-  MOLDED CASE CIRCUIT BREAKER, X = AMPERE RATING, Y = NO. OF POLES  
THERMAL/MAGNETIC UON
-  JUNCTION BOX OR FITTING
-  FUSE, X=SIZE IN AMPS
-  SHEET NOTE "X"
-  REDUCED VOLTAGE STARTER

### ABBREVIATIONS

- A AMPERE
- AFF ABOVE FINISH FLOOR
- AHU AIR HANDLING UNIT
- AIC AMPERES INTERRUPTING CAPACITY
- ATS AUTOMATIC TRANSFER SWITCH
- AVEC ARCTIC VILLAGE ELECTRIC COMPANY
- BPC BOILER CONTROL PANEL
- bccu BARE COPPER
- BLDG BUILDING
- C CONDUCTOR
- C CONDUIT
- CIRC CIRCULATION
- CP CONTROL PANEL
- CP CIRCULATION PUMP
- CT CURRENT TRANSFORMER
- DHW DOMESTIC HOT WATER
- DWG DRAWING
- EA EACH
- EF EXHAUST FAN
- ENT ELECTRICAL NON-METALLIC TUBING
- EOL END OF LINE RESISTOR
- FACP FIRE ALARM CONTROL PANEL
- FC FOOT CANDLE
- FMC FLEXIBLE METAL CONDUIT
- FVNR FULL VOLTAGE NON-REVERSING, THERMAL MAGNETIC OCP
- G GROUND CONDUCTOR
- GFI GROUND FAULT INTERRUPTING
- GP GLYCOL PUMP
- H HOT CONDUCTOR
- HBP HIGH BOOST PUMP
- HE HEAT EXCHANGER
- HOA HAND OFF AUTO
- HP HORSEPOWER
- HPS HIGH PRESSURE SODIUM
- KVA KILO-VOLT-AMPERES
- KW KILOWATT
- LCP LOCAL CONTROL PANEL
- LTFCM LIQUID TIGHT FLEXIBLE METAL CONDUIT
- LTFCN LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT
- LTG LIGHTING
- MCC MOTOR CONTROL CENTER
- MCM THOUSAND CIRCULAR MILLS
- MCP MAGNETIC ONLY CIRCUIT PROTECTOR
- MDP MAIN DISTRIBUTION PANEL
- MV MOTORIZED VALVE
- N NEUTRAL CONDUCTOR
- NEMA NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
- NMC NON METALLIC CABLE
- OCP OVERCURRENT PROTECTION
- P POLE
- RCP RECEPTACLE
- RM ROOM
- RMC RIGID METAL CONDUIT, GALVANIZED
- SL SWITCH LEG
- SP SEWAGE PUMP
- TBD TO BE DETERMINED
- TWSH TWISTED/SHIELDED
- TYP TYPICAL
- U/G UNDERGROUND
- UON UNLESS OTHERWISE NOTED
- V VOLTS
- VAC VACANCY
- VFD VARIABLE FREQUENCY DRIVE
- WP WEATHER PROOF
- WTP WATER TREATMENT PLANT
- XFMR TRANSFORMER

### GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH LATEST LEGALLY ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE AND THE LATEST EDITION OF THE MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS (MASS).
2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION.
3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL BURIED UTILITIES, AND SHALL CALL FOR UTILITY LOCATES A MINIMUM OF TWO (2) DAYS PRIOR TO DIGGING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY UTILITY DAMAGED DURING THE COURSE OF CONSTRUCTION
4. THE CONTRACTOR SHALL RESTORE PROPERTY DISTURBED BY CONTRACT ACTIVITY TO THE PRE-CONSTRUCTION CONDITION. SUCH WORK IS INCIDENTAL TO THIS CONTRACT AND SHALL INCLUDE BUT NOT BE LIMITED TO PAVEMENTS, PAVEMENT STRIPING, CONCRETE SLABS, FENCES, MAILBOXES, SIGNS, CURBS, GUTTERS, SEEDED AREAS, AND DRAINAGE SWALES, ETC.
5. ALL ITEMS CALLED OUT ON THE PLANS TO BE CONSTRUCTED SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
6. THE LOCATION OF EXISTING FEATURES AND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS IN THE FIELD AS NECESSARY. THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES ENCOUNTERED IN THE FIELD SHALL BE RECORDED ON THE CONTRACTOR'S RECORD DRAWINGS.

### SCOPE OF WORK SUMMARY

WORK IS TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

PROVIDE NEW 400A, 480/277V SERVICE WITH MANUAL TRANSFER SWITCH AND MDP.

INSTALL NEW FEEDERS TO WELL HOUSES #1, 2, & 3.

PROVIDE NEW 480V DISTRIBUTION WITHIN EACH WELL HOUSE AND OTHER WORK AS SHOWN.

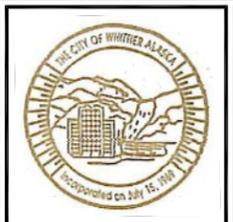
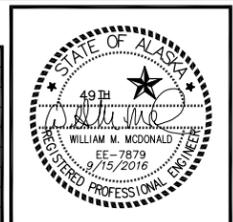
COORDINATE WITH CEA FOR INSTALLATION OF NEW SERVICE AND THE REMOVAL OF EXISTING OVERHEAD WELL HOUSE FEEDERS FROM CEA OWNED DISTRIBUTION POLES. ALL WIRING SHALL BE REMOVED UNDER THIS CONTRACT.

CALL BEFORE YOU DIG!!!		
Alaska Digline, Inc.		
Statewide. . . . .		811
Alaska Railroad . . . . .		265-2520
Military Fuel Lines . . . . .		552-3760
State Storm Drains . . . . .		333-2411



REVISION			
REV	DATE	DESCRIPTION	BY

REVISION			
REV	DATE	DESCRIPTION	BY



SCALE	HOR. N/A VER. N/A
DESIGNED BY	
DRAWN BY	
CHECKED BY	
APPROVED BY	

PROJECT NO:	CITY OF WHITTIER, ALASKA
	<b>RE-POWER WELL HOUSES #1, 2 &amp; 3</b>
	ELECTRICAL LEGEND, ABBREVIATIONS, LUMINAIRE SCHEDULE & SCOPE OF WORK
STATUS: FINAL DESIGN	DATE: SEPTEMBER 2016

PROJECT NO.	20402
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	E1
OF	E5

# ELECTRICAL SPECIFICATIONS

**SCOPE OF WORK:** Furnish and install all material and equipment as required for the installation as specified here and as shown on the drawings.

**STANDARDS, CODES AND REGULATIONS:** Contractor shall comply with the latest adopted edition of the National Electrical Code (NEC), International Building Code (IBC), and International Fire Code (IFC) including all state and local amendments to these codes.

**DRAWINGS:** The drawings are diagrammatic, not necessarily showing all offsets or exact locations of fixtures, equipment, etc., unless specifically dimensioned. Review the drawings and specifications for equipment furnished by other crafts but installed in accordance with this section. Bring questionable or obscure items, apparent conflicts between plans, specifications, governing codes and/or utilities regulations to the attention of the Engineer. Codes, ordinances, regulations, manufacturer's instructions or standards take precedence when they are more stringent or conflict with the drawings and specifications.

**RECORD DRAWINGS:** Mark up a clean set of drawings as the work progresses to show the dimensioned location and routing of all electrical work that will become permanently concealed. Show routing of work in permanently concealed blind spaces within buildings and structures. Show complete routing and sizing of any significant revisions to the systems shown.

**WORKMANSHIP:** Installation of all work shall be made so that its several component parts shall function as a workable system complete with all accessories necessary for its operation. All material and equipment shall be installed in accordance with the manufacturer's recommendations, instructions and/or installation drawings and in accordance with NECA standards. Materials and equipment shall be new and shall conform to applicable industry standards, NEMA standards and Underwriters Laboratories (U/L) standards.

**OPERATION AND MAINTENANCE MANUALS:** Provide operation and maintenance manuals for training of the owner's personnel. Describe in the manuals the procedures necessary to operate the system including start-up, operation, emergency operation and shutdown. Provide instructions and a schedule of preventive maintenance in tabular form for all routine cleaning, inspection and lubrication with recommended lubricants. Provide instructions for minor repair or adjustments required for preventive maintenance routines. Provide manufacturer's descriptive literature including approved shop drawings covering devices used in any contractor-provided equipment or systems with illustration, exploded views, etc. Provide a non-password protected PDF file of each manual in its entirety on a CD in addition to the required hard copies.

**REFERENCE SYMBOLS:** The Electrical "LEGEND" on the drawings is a standardized version, and all symbols shown may not be used. Use the "LEGEND" as a reference for the symbols used on the drawings.

**IDENTIFICATION:** Provide engraved three-layer laminated plastic nameplates with black letters on a white background to identify all electrical distribution and control equipment, loads served and as noted on the drawings. Letter heights shall be 1/8" for individual switches, motor starters and loads served and 1/4" on panelboards. Secure nameplates to equipment fronts using screws, rivets or adhesives.

**CONDUITS:** Mark all conduits entering or leaving panelboards/control panels with an indelible black marker with the circuit numbers of the circuits contained inside.

**JUNCTION BOXES:** Mark all circuit numbers of wiring on all junction boxes with sheet steel covers. Mark with indelible black marker. Mark all other special system junction boxes with sheet steel covers.

**CONDUIT:** In General, all INTERIOR wiring shall be installed EMT and pressed steel shall be permitted. Feeders 100A or over shall be run in rigid steel. All metallic fittings, connectors, boxes, etc., shall be approved for use as a grounding means. Utilize short extensions (36" maximum) of flexible, low temperature, liquidtight flexible metallic conduit for connection of all motors and other equipment subject to vibration and where conduits transition between structures or on risers from below grade. Paint all exposed raceways to match the surface to which it is attached or crosses. Otherwise paint industrial gray. Completely and thoroughly swab raceway system before installing conductors. An equipment ground wire is required in all conduits whether shown or not. EMT conduit fittings shall be compression type with insulated throats. Rigid steel penetrations shall be proved with grounding bushings.

**CONDUCTORS:** Conductors shall be copper, solid or stranded, with type XHHW-2, 90° insulation exterior above grade and type USE or UF below grade and THHN/THWN interior. Minimum branch circuit conductor size shall be #12 AWG. Minimum control circuit conductor size for field wiring shall be #14 AWG unless noted otherwise on drawings. Pull all conductors into the raceway at the same time. Use UL listed wire-pulling lubricant for pulling #4 AWG and larger wires. Color code conductors as follows: 240/120 volt systems: black (L1), white/gray (N) and green or bare (G). Use properly sized insulated spring wire connectors with plastic caps for all conductors #8 AWG and smaller. Terminate #6 AWG and larger conductors with crimp or compression type connectors installed with tool recommended by connection manufacturer and insulate with properly sized 600-volt rated heat shrink tubing.

**CIRCUIT BREAKERS:** Molded case circuit breakers shall be bolt-on with common trip handle for all poles. Thermal magnetic trip type unless specifically shown as magnetic only (MCP).

**EQUIPMENT CONNECTIONS:** Provide wiring and connection to equipment requiring electrical power but specified under other divisions of the specifications. Equipment shall include but is not limited to motors, pumps, dispensing equipment, etc. Review equipment submittal from the other trades prior to installation and electrical rough-in. Verify location, size, type of connections, and that equipment is ready for electrical connection. Make wiring connections in control panel or in wiring compartment of pre-wired equipment in accordance with the manufacturer's instructions. Provide interconnecting wiring and disconnects where required.

**DISCONNECT SWITCHES:** Provide 600V and 250V heavy duty non-fusible quick-make, quick break, load interrupter, enclosed knife switches with externally operable handle interlocked to prevent opening front cover with switch in on position, handle lockable in off position. For motors under 1HP, specification grade snap switched rated for HP duty may be used. Where locking is required, provide suitable cover plate with locking feature.

**EQUIPMENT MOUNTING:** Provide all bracing as required to securely mount enclosures, fixtures and devices. Unless otherwise noted use galvanized hardware and galvanized formed steel components such as Unistrut or equal. When bolting to structure, verify that the original structural and performance (i.e. water tight) characteristics are maintained.

**WIRING METHODS:** Unless noted otherwise, enclosures, junction boxes and other equipment shall be installed in accordance with the following schedule:

Exterior – Cast weatherproof device boxes with gasketed covers, RMC or LTFMC. NEMA 3R enclosure rating.  
Interior – Surface mounted EMT, LTFMC, Cast device boxes, NEMA 12 enclosure ratings.

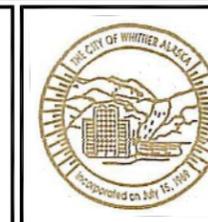
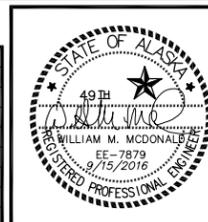
Below grade – Rigid Metal conduit buried 36". Underground junction boxes shall be rated for H2O as the route runs adjacent to an alleyway.

File: J:\basdata\20402.00 Whittier Re-Power Well Houses\00 CADD\01 Working Set\03 Electrical\20402.00 ELECTRICAL\_LEGEND & SPECS.dwg PLOT DATE: 9/16/2016 11:24 AM



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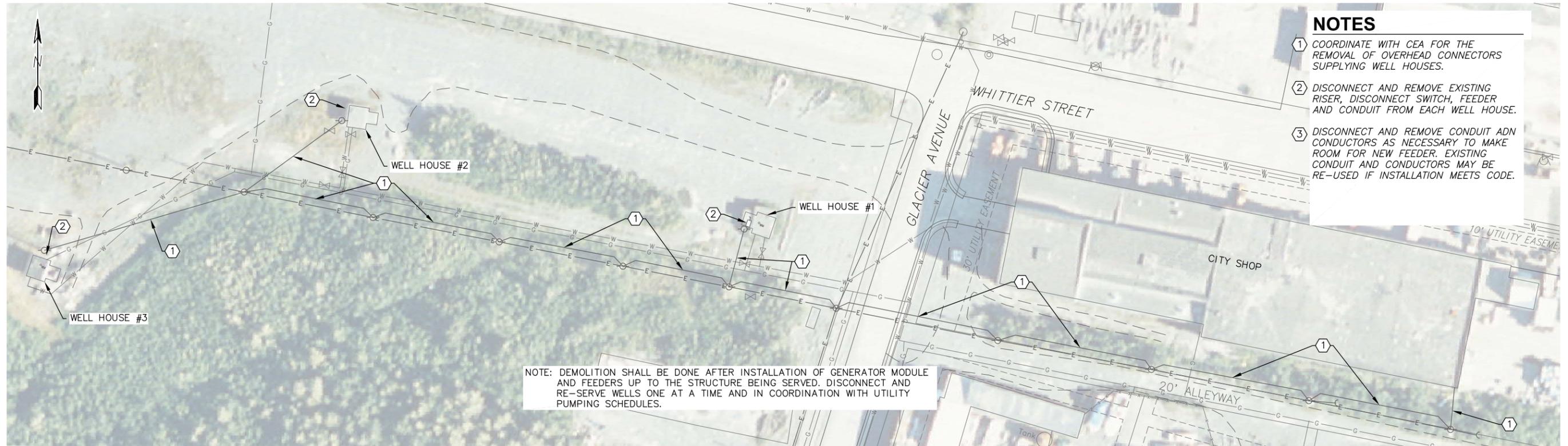


SCALE	HOR. N/A VER. N/A
DESIGNED BY	
DRAWN BY	
CHECKED BY	
APPROVED BY	

PROJECT NO:	CITY OF WHITTIER, ALASKA
<b>RE-POWER WELL HOUSES #1, 2 &amp; 3</b>	
ELECTRICAL SPECIFICATIONS	
STATUS: FINAL DESIGN	DATE: SEPTEMBER 2016

PROJECT NO:	20402
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	E2
OF	E5

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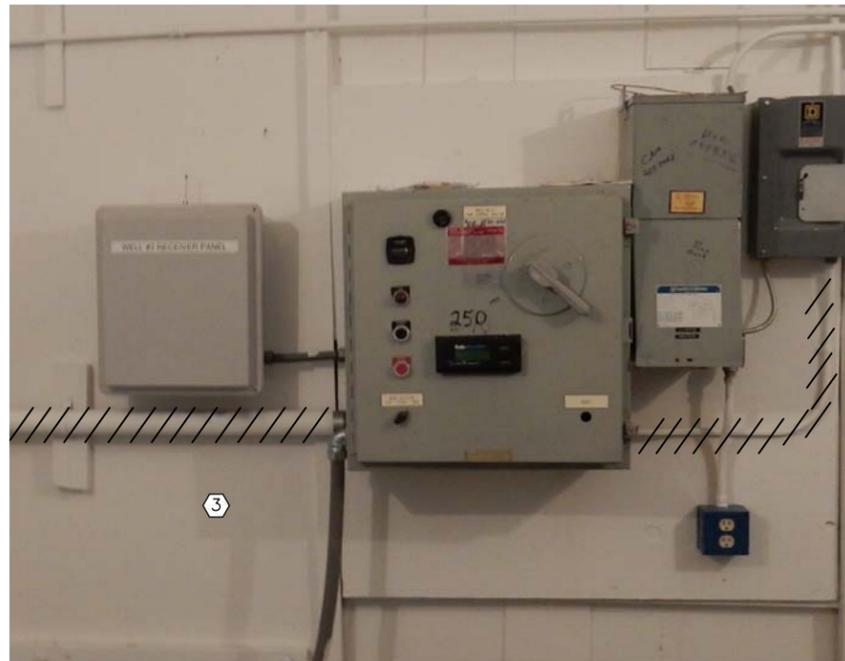


- NOTES**
- ① COORDINATE WITH CEA FOR THE REMOVAL OF OVERHEAD CONNECTORS SUPPLYING WELL HOUSES.
  - ② DISCONNECT AND REMOVE EXISTING RISER, DISCONNECT SWITCH, FEEDER AND CONDUIT FROM EACH WELL HOUSE.
  - ③ DISCONNECT AND REMOVE CONDUIT AND CONDUCTORS AS NECESSARY TO MAKE ROOM FOR NEW FEEDER. EXISTING CONDUIT AND CONDUCTORS MAY BE RE-USED IF INSTALLATION MEETS CODE.

NOTE: DEMOLITION SHALL BE DONE AFTER INSTALLATION OF GENERATOR MODULE AND FEEDERS UP TO THE STRUCTURE BEING SERVED. DISCONNECT AND RE-SERVE WELLS ONE AT A TIME AND IN COORDINATION WITH UTILITY PUMPING SCHEDULES.



② **WELL HOUSE #3**  
Scale: 1/4"=1'



③ **WELL HOUSE #2**  
Scale: GRAPHIC



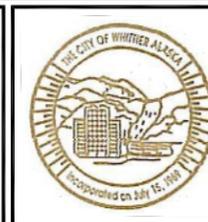
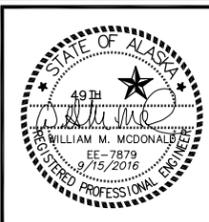
④ **WELL HOUSE #1**  
Scale: GRAPHIC



GRAPHIC SCALE 40 0 40 80 120

REVISION			
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REVISION			
REV	DATE	DESCRIPTION	BY



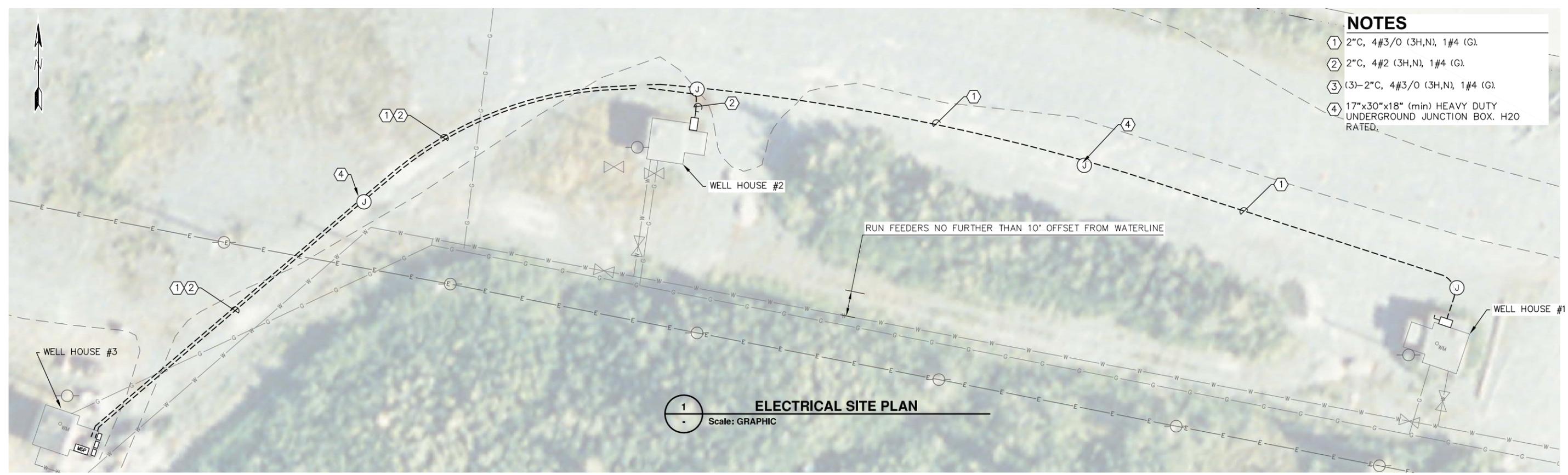
SCALE
HOR. 1" = 40'
VER. N/A
DESIGNED BY
DRAWN BY
CHECKED BY
APPROVED BY

PROJECT NO: CITY OF WHITTIER, ALASKA  
**RE-POWER WELL HOUSES #1, 2 & 3**  
ELECTRICAL DEMOLITION PLAN

STATUS: FINAL DESIGN DATE: SEPTEMBER 2016

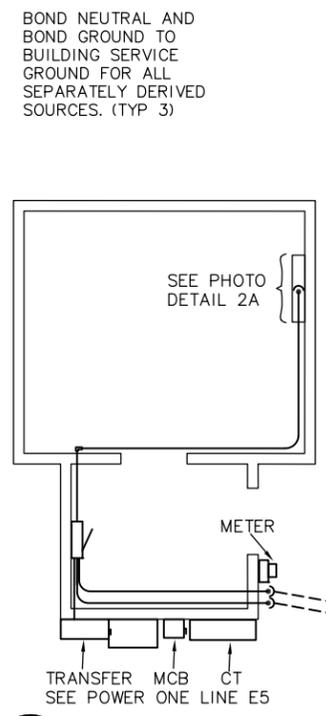
PROJECT NO.	20402
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET OF	E3 E5

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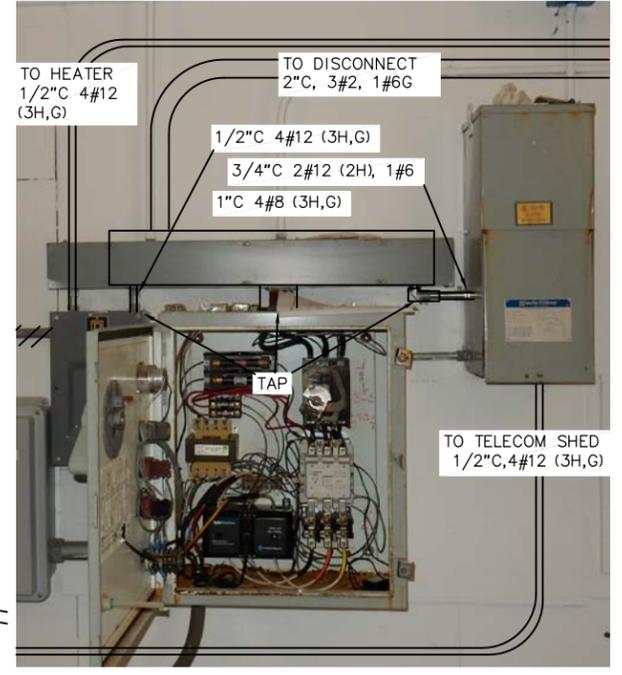


- NOTES**
- ① 2" C, 4#3/0 (3H,N), 1#4 (G).
  - ② 2" C, 4#2 (3H,N), 1#4 (G).
  - ③ (3)-2" C, 4#3/0 (3H,N), 1#4 (G).
  - ④ 17"x30"x18" (min) HEAVY DUTY UNDERGROUND JUNCTION BOX. H2O RATED.

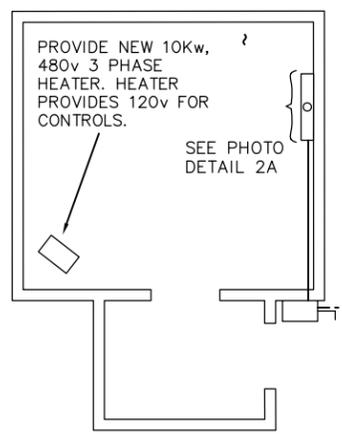
**1 ELECTRICAL SITE PLAN**  
Scale: GRAPHIC



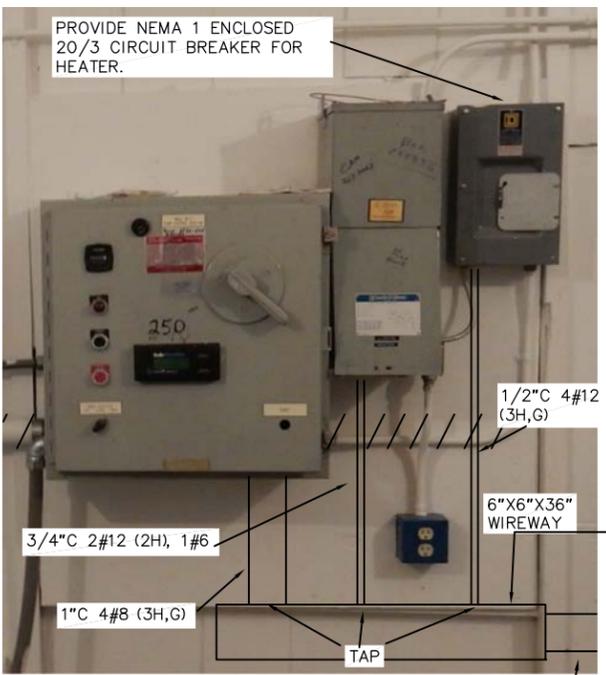
**2 WELL HOUSE #3**  
Scale: 1/4"=1'



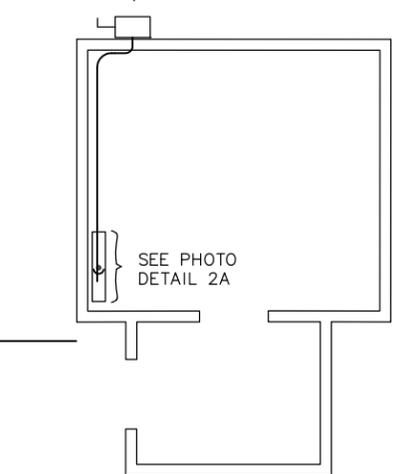
**2A W#3 ELEVATION VIEW**  
Scale: NONE



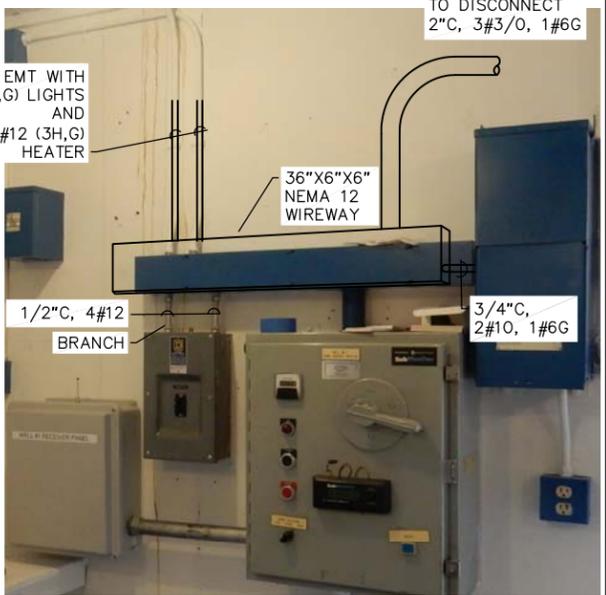
**3 WELL HOUSE #2**  
Scale: GRAPHIC



**3A W#2 ELEVATION VIEW**  
Scale: GRAPHIC



**4 WELL HOUSE #1**  
Scale: GRAPHIC



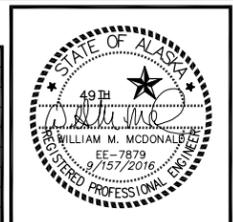
**4A W#1 ELEVATION VIEW**  
Scale: GRAPHIC

GRAPHIC SCALE 0 20 40 60



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REVISION			
REV	DATE	DESCRIPTION	BY



SCALE	HOR. 1" = 20'
VER.	N/A
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APPROVED BY	

PROJECT NO:	CITY OF WHITTIER, ALASKA
<b>RE-POWER WELL HOUSES #1, 2 &amp; 3</b>	
ELECTRICAL SITE PLAN	
STATUS: FINAL DESIGN	DATE: SEPTEMBER 2016

PROJECT NO:	20402
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	E4
OF	E5

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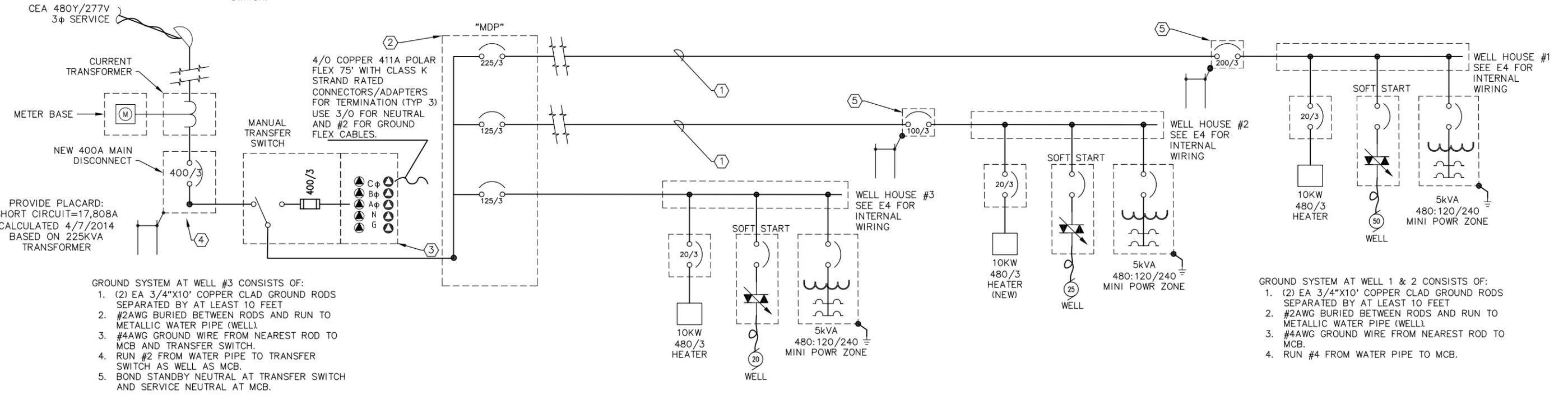
PANEL "MDP" SCHEDULE									
LOCATION: GENERATOR CONNEX			480Y/277V			3 PHASE 4 WIRE		22,000 AIC	
SERVED FROM: AUTOMATIC TRANSFER SWITCH			400A MLO					NEMA 3R	
POLE #	AMP TRIP	LOAD DESCRIPTION	POLE Kva	MLO A? B? C?	POLE Kva	LOAD DESCRIPTION	AMP TRIP	POLE #	
1			18.0	27.5				2	
3	225/3	WELL HOUSE #1	18.0		27.5	WELL HOUSE #2	125/3	4	
5			18.0					6	
7			9.5	9.5				8	
9	125/3	WELL HOUSE #3	9.5		9.5			10	
11			9.5					12	
13								14	
15					0.0			16	
17								18	
			37.0	37.0	37.0	Total kVA = 111.1 kVA			
			Total Amps @ 480V = 231.4 A						

**NOTES**

- ① SEE DRAWING E4 FOR CONDUCTOR/CONDUIT.
- ② 400A, 480Y277V, 3φ, NEMA 3R, 30 SPACE PANEL BOARD. SQUARE D OR APPROVED EQUAL.
- ③ 400A MANUAL TRANSFER SWITCH, NEMA 3R, POSILOK PLUGS FOR STANDBY CONNECTION.
- ④ 400A, 480V 3 POLE, SERVICE RELATED MAIN BREAKER IN NEMA 3R ENCLOSURE. PROVIDE SHORT CIRCUIT AND ARC FLASH PLACARD. FINAL DATA FOR PLACARD TO BE PROVIDED AFTER SERVICE IS INSTALLED.
- ⑤ WELL HOUSE MAIN DISCONNECT. NEMA 3R INCLOSED WITH S/N. NEUTRAL IS BONDED AT THIS LOCATION. SERVICE RATED BREAKER AMPACITY AS SHOWN.

PROVIDE CT ENCLOSURE AND METER BASE (1"RIGID CONNECTION) PER CEA SERVICE STANDARDS AND REQUIREMENTS.

PROVIDE 3"C RISER, (4) 500MCM XHHW-2, EXTEND TO CT BUSBAR AND THEN WITH ADDED #2 GROUND TO THE MCB AND ON TO THE TRANSFER SWITCH.

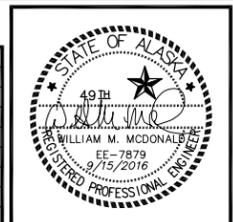


**1 POWER ONE-LINE**  
Scale: NTS



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REV	DATE	DESCRIPTION	BY

REVISION			
REV	DATE	DESCRIPTION	BY



SCALE	HOR. N/A VER. N/A
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APPROVED BY	

PROJECT NO: CITY OF WHITTIER, ALASKA

**RE-POWER WELL HOUSES #1, 2 & 3**

POWER ONE-LINE & PANEL SCHEDULES

STATUS: FINAL DESIGN DATE: SEPTEMBER 2016

PROJECT NO.	20402
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	E5
OF	E5