MATANUSKA-SUSITNA
BOROUGH SCHOOL DISTRICT

BID #B24-04

UPGRADE WELLS AT KNIK AND GOOSE BAY ELEMENTARY SCHOOL

Due Date and Time: February 12, 2024 at 2:00 P.M.

Enclosed:

Bid
Documents
and
Affidavit

Matanuska-Susitna Borough School District

Purchasing Department
690 Cope Industrial Way
Palmer, AK 99645

P: (907) 861-5120 || F: (907) 861-5184
bids@matsuk12.us
www.matsuk12.us/bids

TABLE OF CONTENTS

TABLE OF CONTENTS . . . . . P. 1

ADVERTISEMENT FOR BID . . . . . P. 2

REQUEST FOR BID AND INSTRUCTIONS TO BIDDERS . . . . . P. 3

ATTACHMENT A: SCOPE OF SERVICES . . . . . P. 11

ATTACHMENT B: SPECIAL CONDITIONS . . . . . P. 13

ATTACHMENT C: BID FORM . . . . . P. 15

APPENDIX 1: ADDENDUM ACKNOWLEDGEMENT . . . . . P. 16

APPENDIX 2: NON-COLLUSION CERTIFICATE . . . . . P. 17

APPENDIX 3: INSURANCE . . . . . P. 18

APPENDIX 4: VENDOR PAPERWORK . . . . . P. 20

APPENDIX 5: PROPOSED SUBCONTRACTORS AND SUPPLIERS . . . . . P. 21

APPENDIX 6: PRE-BID CONFERENCE. . . . . P. 22

APPENDIX 7: PLANS AND SPECIFICATIONS . . . . . P. 23

APPENDIX 8: SCHOOL CALENDAR. . . . . P. 52

APPENDIX 9: DOL PAMPHLET 600. . . . . P. 53

ADVERTISEMENT

	DATE OF ADVERTISEMENT
Frontiersman	January 12 and 14, 2024
Anchorage Daily News	January 12 and 14, 2024

Type of Ad: Classified / Public Notice

The material herein must be printed in its entirety on the dates shown above. Affidavit of publication is required prior to payment.

Matanuska-Susitna Borough School District Bid

BID #B24-04

UPGRADE WELLS AT KNIK AND GOOSE BAY ELEMENTARY SCHOOL

Notice is hereby given that the Matanuska-Susitna Borough School District (MSBSD) will consider bids from qualified individuals and firms for the provision of:

UPGRADE WELLS AT KNIK AND GOOSE BAY ELEMENTARY SCHOOL

Bids are due on or before February 12, 2024 at 2:00 P.M. Palmer, Alaska time. Sealed bids must be submitted and received by the MSBSD Purchasing Department, 690 Cope Industrial Way, Palmer, AK 99645, on or before said date and time designated for receipt of bids. All bids must be marked" BID #B24-04 ."

Bid documents can be viewed on the MSBSD website at www.matsuk12.us/bids and are also available at the MSBSD Purchasing Department, 690 Cope Industrial Way, Palmer, AK 99645. For more information, call (907) 861-5120.

A pre-bid conference will be held on January 19, 2024. Attendance is not mandatory, but it is highly recommended that bidders attend. For more information, please refer to Appendix 6 of the bid documents. MSBSD personnel will be available. All questions will be answered in writing and issued as an addendum to the bid documents.

The MSBSD reserves the right to accept or reject any or all bids and waive any minor technicalities, informalities, and/or irregularities as it deems appropriate.

12/29/23	Requested By:	A. Carney	Approved By:	B. Munson

MATANUSKA-SUSITNA
BOROUGH SCHOOL DISTRICT

UPGRADE WELLS AT KNIK AND GOOSE BAY ELEMENTARY SCHOOL

BID #B24-04

INVITATION TO BID

THIS IS NOT A PURCHASE ORDER

The Matanuska-Susitna Borough School District (MSBSD) is requesting bids from qualified bidders to provide

UPGRADE WELLS AT KNIK AND GOOSE BAY ELEMENTARY SCHOOL

as specific herein.

Bids will be accepted until	February 12, 2024	at	2:00 P.M.
Questions will be accepted until	January 25, 2024	at	4:00 P.M.

BIDDER USE ONLY

THIS PAGE MUST BE COMPLETELY FILLED IN, SIGNED, AND RETURNED WITH YOUR PACKET.

Company Name

Address

City | State | Zip

Telephone Number | Fax Number

State of Alaska Business License Number | Matanuska-Susitna Borough Business License Number

Authorized Signature | Printed Name | Date

INSTRUCTIONS TO BIDDERS

1. GENERAL INFORMATION:

The Matanuska-Susitna Borough School District (MSBSD) is soliciting bids from qualified bidders to provide the scope of services as specified in Attachment A, Scope of Services. Copies of the bid documents can be viewed in the Purchasing section of the MSBSD website at www.matsuk12.us/bids and can be obtained in the Purchasing Department at 690 Cope Industrial Way, Palmer, Alaska 99645 or by calling (907) 861-5120. Office hours are 7:00am - 4:30pm, Monday through Friday.

Bids must be fully executed, signed by each bidder, and enclosed in a sealed envelope with the bidder's name, address, and phone number clearly indicated on the outside, as per Section 8 of this Instructions to Bidders. Bids must be submitted to the MSBSD Purchasing Department at 690 Cope Industrial Way, Palmer, Alaska 99645. Signed bids must be in the office of the MSBSD Purchasing Department on or before the date and time designated for receipt of bids. **The MSBSD will not accept or consider bids that are oral, telephonic, telegraphic, faxed, e-mailed, or otherwise electronically transmitted.**

2. GENERAL STATEMENT:

In rendering the services hereunder, the selected bidder shall adhere to the following general terms and conditions. The term "selected bidder" refers to the bidder awarded a contract to provide services and/or products as required herein. The term "agreement" hereafter refers to this Invitation to Bid, any and all attachments and appendices, any and all addenda, and the bidder's response and acceptance by the MSBSD. A contract may be issued upon award of this bid.

3. PRE-BID CONFERENCE:

A pre-bid conference will be held on January 19, 2024. Attendance is not mandatory, but it is highly recommended that bidders attend. For more information, please refer to Appendix 6 of the bid documents. MSBSD personnel will be available. All questions will be answered in writing and issued as an addendum to the bid documents.

4. EXAMINATION OF BID DOCUMENTS:

A. Bidders shall carefully examine the bid documents before submitting a bid. The submission of a bid shall be an admission that the bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and as to the requirements and accuracy of the bid documents.

B. The MSBSD assumes no responsibility for any understanding or representations concerning conditions made by any of its officers, agents, or employees prior to the execution of the bid, unless such understanding or representations are expressly stated in the bid documents or addenda.

C. Bidders shall include in their bid sums sufficient to cover all items and services required by the bid documents, and shall rely entirely upon their own examination in making their bid. The submission of a bid shall be taken as prima facie evidence of compliance with this paragraph.

5. INTERPRETATION OR CORRECTION OF BID DOCUMENTS:

Bidders shall notify the Purchasing Department promptly of any error, omission, or inconsistency that may be discovered during examination of the bid documents. Requests from bidders for interpretation or clarification of the bid documents shall be made in writing to the Purchasing Department by

January 25, 2024 at 4:00 P.M. Palmer, Alaska time.

Any questions received after this date and time will not be answered. Questions should reference the applicable bid number and title and can be submitted by mail, fax, or e-mail to the following:

Mail: MSBSD Purchasing Department; 690 Cope Industrial Way; Palmer, AK 99645
Fax: MSBSD Purchasing Department; (907) 861-5184
E-mail: bids@matsuk12.us

5. INTERPRETATION OR CORRECTION OF BID DOCUMENTS (CONT.):

Interpretations, corrections, responses to questions, and changes of the Bid Documents will be made by addenda. Interpretations, corrections, responses to questions, and changes of the Bid Documents made in any other manner will not be binding on the MSBSD and bidders shall not rely on them. All addenda issued shall become part of the agreement documents. It is the bidder's sole responsibility to ascertain that they have received all addenda issued by the Purchasing Department. Each addendum will be issued by both fax machine and U.S. mail. All addenda will also be posted in the Purchasing section of the MSBSD website at www.matsuk12.us/bids. **All addenda must be acknowledged in the space provided on Appendix 1 or the bid may be deemed non-responsive.**

6. PREPARATION AND SUBMISSION OF BIDS:

A. Each bid must be signed in longhand by the bidder with their usual signature. Bids submitted by partnerships must be signed with the partnership name by one of the partners, followed by the signature and designation of the partner signing. Bids submitted by corporations must be signed with the legal name of the corporation, followed by the name of the state of incorporation, and the signature of the president, secretary, or other person authorized to bind in the matter. The full name and address of each person signing shall be typed or printed below the signature.

B. Bids shall be submitted on the forms furnished and must be manually signed. Bids must be submitted in a sealed envelope and addressed as indicated in Section 8 of this Instructions to Bidders.

C. Bids shall specify a price, typed or written in ink, for each bid item called for. Bids may be rejected if they show an omissions, alteration of the forms, additions not called for, conditional or alternate bids not called for, qualified bids, or irregularities of any kind.

D. Bidders shall bear all costs directly or indirectly related to preparing a bid, preparing presentations or supplements, and/or clarifying a bid as may be required by the MSBSD in response to this solicitation.

7. SUBMITTAL REQUIREMENTS:

All of the following must be included with the bid or the bid may be considered non-responsive and be rejected:

A. Invitation to Bid signature page, signed by responsible party.

B. Bid Form, fully executed and signed.

C. Appendix 1, Addendum Acknowledgement, fully executed and signed.

D. Appendix 2, Non-Collusion Certificate, fully executed and signed.

E. Evidence of Insurance, as required in the Invitation to Bid and Appendix 3, will be required prior to an award to the successful bidder.

F. Appendix 4, Vendor Paperwork, fully executed.

G. Appendix 5, Proposed Subcontractors and Suppliers List, fully executed (if applicable)

H. Copies of Alaska Business License and all other licenses, certificates, or permits required by city, borough, state, and federal law as applicable.

I. Any additional submittal requirements per Attachment A: Scope of Services.

8. BIDS:

A. Signed bids **MUST** be in the MSBSD Purchasing Department office on or before

February 12, 2024 at 2:00 P.M. Palmer, Alaska time.

B. It is the responsibility of all bidders to ensure that their bids and associated documents are in the office of the Purchasing Department prior to the date and time designated for receipt of bids. Bids **MUST** be in **SEALED** envelopes clearly marked as follows:

Bid Number: BID #B24-04

Bid Title: UPGRADE WELLS AT KNIK AND GOOSE BAY ELEMENTARY SCHOOL

Due: February 12, 2024 at 2:00 P.M.

8. BIDS (CONT.):

C. Bidders are cautioned that mailed bids which arrive after the date time designated for receipt of bids will not be opened or considered. Bidders are further cautioned not to rely on the U.S. Postal System or any other second party for timely delivery of their bid. It is the bidder's sole responsibility to ensure that their bid and associated documents are in the physical possession of the Purchasing Department prior to the date and time scheduled for receipt of bids.

D. All bids shall be submitted on the attached bid forms in the spaces indicated and must comply with these instructions. The bid must be completed and signed by an authorized representative of the firm submitting the bid.

E. Scheduled bid openings are open to the public and are located in the Purchasing Department.

9. WITHDRAWAL FROM CONSIDERATION:

Bids may be withdrawn upon written request delivered to the MSBSD Purchasing Department on or before the date and time designated for receipt of bids. However, no bidder shall withdraw or cancel their bid for a period of ninety (90) calendar days prior to the date and time designated for receipt of bids, nor shall the selected bidder withdraw, cancel or modify their bid after having been notified by the Purchasing Department that said bid has been accepted by the MSBSD.

10. MODIFICATION OF BIDS:

Prior to the date and time designated for receipt of bids, a bid may be modified or withdrawn by notice to the MSBSD at the place designated for receipt of bids. Such notice shall be in writing over the signature of the bidder. That notice shall be date and time stamped by the MSBSD on or before the date and time designated for receipt of bids. A modification must not reveal the amount of the original bid. A bid bond, if required, shall be in an amount sufficient for the bid as modified.

11. AWARD OF CONTRACT:

A. The MSBSD will award a contract to the lowest responsive and responsible bidder. This bid will be awarded on the basis defined in Attachment A, Scope of Services.

B. The MSBSD, as it deems appropriate, shall have the right to reject any and all bids. Bids may be rejected if they do not include a required bid bond or other data required by the bid documents. All responsive bids may be rejected if the MSBSD, in its sole judgment, considers them too costly.

C. The MSBSD has the right to accept Alternatives in any order or combination unless otherwise specifically provided in the Bid Documents, and to determine the low bidder on the basis of the sum of the Base Bid and Alternatives accepted.

D. In determining the lowest responsive and responsible bidder, the MSBSD may consider, in addition to price, at any point in the selection process, any of the following factors:

I. The ability, capacity, and skill of the bidder to perform the contract.
II. Whether the bidder can perform the contract within the time specified without delay or interference.
III. The character, integrity, judgment, experience, and efficiency of the bidder.
IV. The quality of performance by the bidder on previous contracts of a similar nature.
V. Whether the bidder is in arrears on any existing contract with the MSBSD or is in litigation, arbitration, or other legal dispute with the MSBSD.
VI. Previous compliance by the bidder with laws and regulations relating to the contract.
VII. The number and scope of conditions attached to the bid.
VIII. The number and scope of minor variations contained in the bid.
IX. If the contract is one which will require future maintenance or repairs, the availability of replacements, replacement parts, and maintenance service for any machinery, equipment, or other material proposed to be installed or supplied by the bidder.
X. The quality, availability, and adaptability of the supplier, equipment, or contractual services to the particular use required.
XI. Whether the bidder is prepared to furnish supplies, equipment, or contractual services which meet the specifications of the MSBSD.

E. The MSBSD reserves the right to make award within a ninety (90) calendar day award period from the date the bids are opened. Bids submitted must be firm for the award period and the contracted service period.

12. AVAILABILITY OF FUNDS:

A. The MSBSD reserves the right, at its sole discretion, to cancel this Invitation to Bid or any part thereof, at any time, prior to an award of contract issued under this Invitation to Bid.

12. AVAILABILITY OF FUNDS (CONT.):

B. Awards are contingent upon the appropriation of MSBSD budget funds.

13. REQUEST FOR ADDITIONAL INFORMATION:

A. The MSBSD reserves the right to request current audited financial statements; qualifications of management personnel, including project manager or field supervisors performance references; or other information deemed relevant at any time prior to bid award. Bidder agrees to provide such requested information within three (3) business days of the request.

B. Prior to the final selection, bidders may be required to submit additional information, which the MSBSD may deem necessary to further evaluate the bids.

C. The MSBSD reserves the right to make investigations of the qualifications of the bidder as it deems appropriate, including but not limited to a background investigation conducted by proper authorities.

14. PUBLIC RECORDS CLAUSE:

This Invitation to Bid and the resulting bids received, together with copies of all documents pertaining to the award of a contract, will be kept by the Purchasing Department and made a part of the record which will be open to public inspection, unless restricted by the bidder and School Board Policy, once the Notice of Intent to Award has been issued. If a bid contains any information which is proprietary or confidential, each page of the confidential information must be clearly marked with a diagonal watermark that reads "CONFIDENTIAL"; such information will be kept confidential if appropriate and will not be released to the public. The MSBSD is not responsible for the release of any documents not marked in this manner. A confidential watermark is required. The bid tabulation sheet shall be open to public inspection as soon as practicable after the Notice of Intent to Award has been issued.

15. PROTEST OF AWARD:

The MSBSD has a process in place for an unsuccessful bidder to submit a written protest, requesting a review of the bid award.

A. An unsuccessful bidder must submit its protest within [three (3)] days of the date of the Notice of Intent to Award issued by the MSBSD's Purchasing Department.

B. The protest must be made in writing, delivered to the same location as the original bid, and must set forth in detail the reason(s) for the protest, with specific reference to the relevant provision of the Bid Documents.

C. Upon receipt of the protest, the Purchasing Department shall schedule an informal hearing to include the successful bidder, the protesting bidder, the Assistant Superintendent of Business and Operations, and a representative of the Purchasing Department. At such time, the bidder making protest can express his/her concerns with said award.

D. Following the informal hearing, the Assistant Superintendent of Business and Operations will send the MSBSD's decision on the protest to all involved parties.

E. If the contract award for the proposed project is required to be approved by the MSBSD School Board, the involved parties will be notified of the date and time of the applicable School Board meeting.

16. CONTRACT:

The contract between the MSBSD and the bidder shall consist of (1) the Invitation to Bid and any attachments and/or amendments and/or addenda thereto; (2) the bid submitted by the bidder in response to the Invitation to Bid; and (3) the actual written agreement or contract. In the event of a conflict in language between the documents referenced above, the provisions and requirements set forth and/or referenced in the bid documents shall govern.

17. INSURANCE:

It is specifically agreed between the parties executing this agreement that it is not intended by any of the provisions of this agreement to create in the public or any member thereof a third-party benefit hereunder, or to authorize anyone not a party to this agreement to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of this agreement. The successful bidder shall procure and maintain minimum insurance requirements and shall provide all required documentation as per attached Appendix 3 to the MSBSD upon award of this agreement. Failure to furnish proper evidence of insurance, or the lapse of insurance required under the provisions of this agreement, may be grounds for termination. The duties required under this subsection shall survive the termination expiration of this agreement. **It is highly recommended that the**

17. INSURANCE (CONT.):
bidders confer with their respective insurance companies or brokers to determine if their insurance program complies with the MSBSD's insurance requirements, as per attached Appendix 3.

18. LICENSES:
All individuals or businesses conducting business within the State of Alaska and within the Matanuska-Susitna Borough are hereby advised that they must obtain both a State of Alaska and a Matanuska-Susitna Borough business license. For information on how to obtain the appropriate business license or see if any exemptions may apply, please visit the following websites.

State of Alaska:
https://www.commerce.alaska.gov/web/cpbl/BusinessLicensing/BusinessLicensingFormsFees.aspx

Matanuska-Susitna Borough
http://www.matsugov.us/business-licenses

19. INVOICES AND METHOD OF PAYMENT:
Billings for services must be verified by a responsible representative of the MSBSD before payment can be made. Payments shall be made to the bidder within thirty (30) calendar days after the MSBSD receives and approves a written request for payment or invoice. The request for payment or invoice may be submitted to the MSBSD, Attn: Accounting Department, 501 N. Gulkana St., Palmer, AK 99645, or invoices can be e-mailed to accounting@matsuk12.us.

20. FEDERAL EXCISE TAXES:
The MSBSD is exempt from Federal Excise Taxes. An Exemption Certificate will be furnished upon request.

21. MODIFICATIONS:
The MSBSD may, from time to time, require modifications in the scope of services to be performed under this agreement. However, it is expressly understood that this agreement shall not under any circumstances be modified without written authorization from the MSBSD. All modifications in the terms of this agreement, to include adding additional schools or sites, shall be incorporated by written amendments to this agreement executed by both parties.

22. INDEMNIFICATION:
A. The Contractor shall indemnify, defend, and hold harmless the MSBSD from and against any claim of, or liability for, independent or sole negligent acts, errors, omissions, or willful misconduct of the Contractor under this Agreement. The Contractor is not required to indemnify, defend, or hold harmless the MSBSD for any claim of, or liability for, the independent or sole negligent acts, errors, omissions, or willful misconduct of the MSBSD. If there is a claim of, or liability for, a joint negligent act, error, omission, or willful misconduct of the Contractor and the MSBSD, the indemnification, defense, and hold harmless obligation of this provision shall be apportioned on a comparative fault basis. In this provision, "Contractor" and "MSBSD" include the employees, agents, and contractors who are directly responsible, respectively, to each. In this provision, "independent or sole negligent acts, errors, and omissions" means negligence other than in the MSBSD's selection, administration, monitoring, or controlling of the Contractor, or in approving or accepting the Contractor's work.

B. Any and all claims that might arise under the Worker's Compensation Act on behalf of the Contractor or other persons while engaged in the performance of the duties or services contemplated, and any and all claims that might be made by any third party as a result of any act or failure to act, shall be the Contractor's sole obligation and the Contractor shall indemnify and defend the MSBSD and hold it harmless from any liability for any act or failure to act on the part of the Contractor.

23. PROTECTION OF EQUIPMENT AND PROPERTY:
The bidder assumes full responsibility for and shall indemnify the MSBSD for any loss or damage to any MSBSD property resulting in whole or in part from the acts or omissions of the bidders, or any employee, agent or representative of the bidder.

24. BIDDER'S PERSONNEL REQUIREMENTS:
The MSBSD may, by serving written notice, require the bidder to promptly remove from the site of work any employee or worker the MSBSD deems incompetent, careless, or otherwise objectionable including, but not limited to, violation of MSBSD policies relating to alcohol, illegal drugs or firearms on MSBSD property.

25. EQUAL EMPLOYMENT OPPORTUNITY:

Bidders, in submitting bids, certify that if awarded a contract under this Invitation to Bid, they will not discriminate against any employee or applicant for employment because of race, color, religion, gender, age, national or ethnic origin, disability, marital status, change in marital status, pregnancy, parenthood, or any other basis prohibited by Alaska state or federal laws. The bidder will take affirmative action to ensure non-discrimination. Such action shall include but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. The bidder agrees to post in a conspicuous place, available to employees and applicants for employment, notices setting forth the provision of this non-discrimination clause.

26. DRUG, TOBACCO, AND ALCOHOL-FREE WORKPLACE:

The selected bidder agrees to comply with MSBSD School Board Policy (BP) 4020, Drug, Tobacco and Alcohol-Free Workplace. This policy states, in part: "In the interest of the health and safety of students and employees, it is a violation of this policy for students, staff, parents, visitors, contractors and all others to use, distribute or sell tobacco, any non-FDA-approved tobacco or nicotine delivery products or devices including but not limited to, cigarettes, cigars, dip, hookah pens, e-cigarettes, and dissolvable nicotine products on District premises, at school-sponsored activities on or off District premises and in District-owned, rented or leased vehicles."

27. CODE OF ETHICS:

A. The selected bidder shall comply with MSBSD School Board Policy BP 4119.21, Code of Ethics.

B. The selected bidder shall also comply with BP 3515.7, Restrictions on Sex Offenders on Campus. This policy states, in part: "To protect the morals, health, and safety of students, it is the policy of the district to deny entrance onto the premises of any district school or any building used for school activities to registered sex offenders or persons required to register under the sex offender registration act of whom the district has knowledge."

C. The selected bidder shall take affirmative action to ensure that no contractor, employee, or subcontractor who will be working on MSBSD property has a criminal record of any conviction for child abuse or assault, be on the State of Alaska or any State Sexual Offender Registry, or has been convicted of a crime of moral turpitude. Any waiver of this section must be in writing, signed by the District's Superintendent. The MSBSD has the right to verify such records at any time during the life of the contract.

28. OCCUPATIONAL SAFETY AND HEALTH WARRANTY:

If awarded the agreement, the bidder warrants that the products sold or services rendered shall conform to the standards and/or regulations promulgated by the U.S. Department of Labor under the Occupational Safety and Health Act of 1970 (29 U.S.C. 651, OL 91-596) and all amendments thereto. In the event the product sold does not conform to the OSHA standards and/or regulations, the MSBSD may return the product for correction or replacement at bidder's option and at bidder's expense. Services performed by the bidder which do not conform to OSHA standards and/or regulations must be corrected by bidder at bidder's expense or by the MSBSD at bidder's expense in the event bidder fails to make the appropriate correction within a reasonable time.

29. COMPLIANCE:

The selected bidder shall comply with all state, federal and local laws, regulations or orders applicable to the purchase, manufacture, processing and delivery of the service.

General Conditions:

I. General Statement: The following conditions shall be followed by the selected bidder. These conditions shall be adhered to, relative to any project for which the selected bidder provides services. The MSBSD reserves the right to delete or alter the following terms and conditions or to add additional terms and conditions at its discretion. The selected bidder shall perform services and otherwise comply with all conditions as set forth in this Invitation to Bid including all attachments and appendices hereto and all additional requirements identified in the bid documents.

II. Governing Laws: The agreement shall be governed as to performance and interpretation in accordance with the laws of the State of Alaska.

III. Compliance with All Laws: The bidder shall comply with all applicable laws, ordinances, executive orders and regulations of the federal, state, and local government, which may in any manner affect the performance of the agreement and all applicable MSBSD policies, rules and procedures.

IV. Relationship of All Parties: It is expressly understood and agreed by the bidder and the MSBSD that the bidder's relationship to the MSBSD is that of an independent contractor.

30. CONFLICT OF INTEREST:

A. The contracting party expressly represents that the contract is not contrary to MSBSD School Board Policy BP 2300, Conflict of Interest and that the contracting party has read and understands BP 2300. If this representation is false, the Superintendent may terminate the contract without regard to partial performance and in the event of such a termination, the MSBSD will have no further liability or obligation to the contracting party.

B. Any employee and/or employee with immediate family members that may have a financial interest in the contract must file an annual BP 2300, Conflict of Interest Affidavit with MSBSD. The following definitions apply to this policy: Immediate family member means an employee's grandparent, parent, child, grandchild, brother, sister, spouse, child of a spouse, or regular member of the employee's household.

31. ASSIGNMENTS AND SUBCONTRACTORS:

A. The bidder shall not sell, assign, transfer, or convey any contract resulting from this bid, in whole or in part, without the prior written consent of the MSBSD.

B. The bidder shall ensure that subcontractors are appropriately licensed, insured and bonded, and qualified to meet all of the requirements of this Invitation to Bid. If a bid with subcontractors is selected, the bidder must provide the following information concerning each prospective subcontractor within five (5) working days of the written request by the MSBSD:

I. The complete name and address of the subcontractor;
II. The type and percentage of work the subcontractor will perform;
III. Certificate of Insurance
IV. Other requested information relevant to the qualifications of the subcontractor.

C. contractors must comply with all licensing, indemnity, insurance limits, and insurance requirements imposed on the bidder.

32. TERMINATION FOR CAUSE:

A. If, through any cause, the bidder shall fail to fulfill in a timely and proper manner their obligation under this agreement, or if the bidder shall violate any of the covenants, agreements, or stipulations of any awarded contract, the MSBSD shall thereupon have the right to terminate this agreement by serving written notice to the bidder of such termination and specifying the effective date thereof, at least 30 (thirty) days before the effective date of such termination. However, if the MSBSD determines that the continuation of this agreement constitutes an imminent threat to the health and safety of its students and staff, this agreement may be terminated by the MSBSD effective immediately.

B. In the event it becomes necessary to terminate this agreement awarded as a result of this bid, regardless of the circumstances or time remaining on the contract, the bidder will be responsible for any and all expenses incurred by the MSBSD. These expenses can include, but are not limited to, cost of locating interim services, cost of re-issuing a bid, and any additional cost to the MSBSD by the new bidder greater than the current contract.

C. The bidder shall be entitled to receive just and equitable compensation for any satisfactory work completed in accordance with the payment provision as set forth under Section 18 of this bid document. Equitable compensation shall not exceed the amount reasonably billed for work actually done and expenses reasonably incurred. The MSBSD's contract administrator shall determine whether work completed is satisfactory.

33. TERMINATION FOR CONVENIENCE OF THE MSBSD:

A. The MSBSD may terminate any awarded contract or agreement at any time by serving written notice to the bidder of such termination and specifying the effective date of such termination at least 30 (thirty) days prior to the effective date of termination.

B. Upon termination of any awarded contract or agreement, the MSBSD shall pay the bidder any payments due at that time.

34. FAILURE OF FUNDING:

A. The MSBSD shall be excused from performance under the contract if funding is not appropriated.

B. The MSBSD may reduce the scope and amount ofservices provided under the contract to counteract a funding shortfall.

ATTACHMENT A:
SCOPE OF SERVICES

1. SCOPE

The Matanuska Susitna Borough School District (MSBSD) is seeking bids from qualified contractors to upgrade the wells at Knik and Goose Bay Elementary School. Please refer to the attached plans and specifications for additional information.

2. GENERAL INFORMATION

A. All work will be completed in a workmanlike manner according to standard practices. The contractor is responsible for removal of debris and jobsite cleanup.

B. Any alteration or deviation from written specifications involving extra costs shall only be executed upon a written change order signed by both the contractor and the MSBSD. Each written notice of changed conditions shall be clearly identified as such and shall include an estimate of the cost and the contract time impact of the alleged changed condition.

C. Contractor shall account for temporary facilities, which may include temporary toilets, dumpsters, utilities, and site security and/or fencing. The contractor should make reasonable precautions to protect the work site as the schools may have community events and occasional summer staffing.

D. The contractor shall comply with the requirements of the IBC, OSHA, and all other federal, state, and local laws and regulations pertaining to this project.

E. Contractor is responsible for restoring any damaged grounds from construction activities to pre-construction conditions.

F. Work can begin April 15, 2024. Knik and Goose Bay Elementary Schools are occupied until June 4, 2024. Water can be turned off from June 5 through August 1, 2024.

G. Work must be completed by October 1, 2024.

H. Contractor must provide minimum of a one (1) year warranty on work, plus any applicable product manufacturer warranties.

3. SCOPE

A. The Contractor is responsible for the work shown in Appendix 7: Plans and Specifications.

B. Knik Elementary School: The contractor must furnish and install new water well including casing, submersible pump, assembly, water service pipe, valves, flushing hydrant, controls, and all appurtenances as further detailed in Appendix 7: Plans and Specifications.

C. Goose Bay Elementary School: The contractor must remove the existing submersible well pump assembly and F&I drop pipe with a new submersible well pump assembly and drop pipe. Furnish and new flushing hydrant, valves, and all appurtenances as detailed in Appendix 7: Plans and Specifications.

D. The MSBSD Facilities Department will be responsible for securing appropriate permits for the work.

4. CONTRACT AWARD

The MSBSD will recommend award of a contract to the lowest responsive and responsible bidder based on total base bid.

5. CONTRACT TERM

The term of any contract resulting from this solicitation shall run through October 1, 2024.

6. CONTRACT MANAGEMENT

At the commencement of any resulting contract, the MSBSD and the successful bidder shall each designate a contract administrator. Such persons shall be the respective party's single point of contact for purposes of management of the contract. The bidder's contract administrator shall assume responsibility for the coordination of all contract issues under the contract.

ATTACHMENT B:
SPECIAL CONDITIONS FOR CONSTRUCTION BIDS

1. **GENERAL INFORMATION:**
   The following special conditions apply to bids and contracts of a construction nature.

2. **CONTRACT MANAGEMENT:**
   At the commencement of the resulting contract, the MSBSD and the successful bidder shall each designate a project manager. Such person shall be the respective party's single point of contact for purposes of management of the contract. The bidder's project manager shall assume responsibility for the coordination of all contract issues under the contract.

3. **BONDS OF CONTRACTORS FOR PUBLIC BUILDING OR WORKS:**
   In certain circumstances, Alaska Statute AS 36.25.010 requires contractors to furnish to the state or a political subdivision of the state certain bonds, which become binding upon the award of the contract. If required, the successful bidder shall furnish a performance and payment bond in the full amount of the contract and shall maintain the bond in force during the duration of the contract. The bond shall be for the faithful performance of this contract in all respects including, but not limited to, payments for all materials and labor. All alterations, extensions of time, additional work, and other changes authorized by the contract documents may be made without securing the consent of the surety of sureties. The bond shall be with a corporate surety authorized to do business in Alaska, having an A.M. Best rating of B+7 or higher, and acceptable to the MSBSD. A Power of Attorney for the person signing the bond for the surety must be submitted with the bond.

4. **WAGE RATES (STATE OF ALASKA PREVAILING WAGE SCALE AND ALASKA HIRE):**
   Attention of bidders is particularly called to the requirements of conditions of employment to be observed and minimum wage rates to be paid under the contract. The requirements of Alaska's Little Davis Bacon Act (AS 36.050.010) are applicable to this project. All work performed "on-site" is covered and subject to the provisions of this act. Each bidder must inform themselves fully of the conditions relating to the construction of the project and the employment of labor thereon and adhere to those conditions. Failure to do so will not relieve a successful bidder of their obligation to furnish all material and labor necessary to carry out the provisions of the contract. The State of Alaska, Department of Labor, Wage and Hour Administration Pamphlet No. 600 is available online at http://labor.alaska.gov/lss/pamp600.htm. Laborers' and Mechanics' minimum rates of pay are updated April 1 and September 1 of each year. It is the responsibility of the bidder to obtain the new labor wage and hour rates when available from the State of Alaska, Department of Labor, and to use the prevailing wage scale and hiring requirements when formulating their bid.
   For the purposes of this Invitation to Bid, Issue # 47 , released September 1, 2023 will apply.

5. **LICENSES:**
   In addition to the licenses required in section 18 of the Instructions to Bidders, all individuals or businesses contracting for construction work under Alaska's Little Davis Bacon Act (AS 36.050.010) are hereby advised that they must obtain a contractor's license. For information on how to obtain the appropriate license or see if any exemptions may apply, please visit the following website: https://www.commerce.alaska.gov/web/cbpl/ProfessionalLicensing/ConstructionContractors.aspx.

6. **SUBCONTRACTORS:**
   Refer to Section 31 of the Instructions to Bidders, entitled "Assignments and Subcontractors", for the MSBSD's requirements regarding subcontractors.

7. **CONTRACTOR PERSONNEL:**
   The personnel identified or described in the bidder's proposal shall perform the services provided for the MSBSD under any resulting contract. The bidder agrees that any personnel substituted during the term of the contract must be able to conduct the required work to industry standards and be equally or better qualified than the personnel originally assigned. The MSBSD reserves the right to approve personnel assigned to work under the contract, and any changes or substitutions to such personnel. The MSBSD's approval of a substitution will not be unreasonably withheld. Any such approval or disapproval shall not relieve the bidder from its obligations under the contract. In the event that personnel become unavailable, it will be the bidder's responsibility to provide an equally qualified replacement in time to avoid delays to the work.

8. MEETINGS AND NOTIFICATIONS:

A. Technical or Contractual Problems: The bidder will be required to meet with the MSBSD's personnel, or designated representatives, to resolve technical or contractual problems that may occur during the term of the contract, at no additional cost to the MSBSD. Meetings will occur as problems arise and will be coordinated by the MSBSD. Failure to participate in problem resolution meetings or failure to make a good faith effort to resolve problems may result in termination of the contract.

B. Progress Meetings: During the term of the contract, the MSBSD's project manager will plan and schedule Project Status Meetings with the successful bidder to discuss the progress made by the bidder and the MSBSD in the performance of their respective obligations under the contract. Project managers for all subcontractors who are then performing work on the project or whose work affects the status of the project shall participate in person or by telephone conference in the Project Status Meeting. At each such meeting, the successful bidder shall provide the MSBSD with a written status report that identifies project status including all work completed and milestones completed, issue tracking/resolution including projected schedule to resolve issues, change management, any problem or circumstance encountered by bidder, or of which bidder gained knowledge during the period since the last such status report, which may prevent bidder from completing any of its obligations as required or that may generate charges in excess of those previously agreed to by the parties. The successful bidder shall identify the amount of excess charges, if any, and the cause of any identified problem or circumstance and the steps taken to remedy the same. Either party also may request additional Progress Status meetings. Upon two (2) business days' prior telephone, e-mail, or written notice from a party, the other party shall use good faith efforts to make itself available for any meetings during business hours reasonably requested by the other party. The successful bidder's subcontractors shall make good faith efforts to attend such meetings if requested by the MSBSD.

C. Failure to Notify: In the event successful bidder fails to specify in writing any problem or circumstance with respect to the period during the term covered by bidder's status report, it shall be conclusively presumed for purposes of the resulting contract that no such problem or circumstance arose during such period, and the bidder shall not be entitled to rely upon such problem or circumstance as a purported justification for either claiming it is entitled to receive any amount (including without limitation damages or additional charges arising out of a breach by the MSBSD of any MSBSD obligation) with respect to any of bidder's obligations under the contract in excess of those previously agreed to; or failing to complete any of bidder's obligations. Submission by the successful bidder of the status reports shall not alter, amend or modify the bidder's or the MSBSD's rights or obligations pursuant to any provision of the resulting contract.

D. MSBSD's Failure or Delay: For a problem or circumstance identified in the bidder's status report, which the bidder claims was the result of the MSBSD's failure or delay in discharging any MSBSD obligation, the MSBSD shall review and determine if such problem or circumstance was in fact the result of such alleged failure or delay. If the MSBSD agrees as to the cause of such problem or circumstance, then the parties shall extend any deadlines or due dates affected thereby, and provide for any additional charges by the bidder. If the MSBSD does not agree as to the cause of such problem or circumstance, the parties shall each attempt to resolve the problem or circumstance in a manner satisfactory to both parties.

ATTACHMENT C:
BID FORM

The undersigned hereby further proposes to furnish all services, including labor, supplies, and supervision necessary to upgrade the wells at Knik and Goose Bay Elementary Schools in full accordance with the bid documents.

ITEM NO.	BASE BID	UNIT COST
1.	Upgrade the wells at Knik and Goose Bay Elementary School	$_____
	TOTAL PRICE FOR BASE BID	$_____

Company: _____ Date: _____
Printed

Contractor: _____
Signature

Contractor: _____
Printed Name

APPENDIX 1:
ADDENDUM ACKNOWLEDGEMENT

Please sign below to acknowledge receipt of all addenda. Return this form with your bid packet. Failure to acknowledge receipt of addenda may result in a determination of your proposal as non-responsive.

If no addenda have been issued, please indicate "NONE" below.

Addendum No.	Receipt Acknowledged (Signature)	Date

APPENDIX 2:
NON-COLLUSION CERTIFICATE

The bidder certifies that:

1. The prices in this offer have been arrived at independently and neither the bidder nor any representatives of the bidder has in any way colluded, conspired, connived, or agreed, directly or indirectly, with any other bidder, firm, or person relating to:
   - Those prices;
   - The intention to submit an offer; or
   - The methods or factors used to calculate the prices offered.

2. The prices in this offer have not and will not be knowingly disclosed by the bidder, directly or indirectly, to any other bidder or competitor before contract award unless otherwise required by law.

3. No attempt has been made or will be made by the bidder to induce any other concern to submit or not to submit an offer for the purpose of restricting competition.

_____
Signature

_____
Printed Name

_____
Title

_____
Business Name

_____
Date

APPENDIX 3:

INSURANCE REQUIREMENT FOR CONTRACTORS

It is highly recommended that contractors and subcontractors confer with their respective insurance companies or brokers to determine if their insurance program complies with the Matanuska-Susitna Borough School District's (MSBSD) insurance requirements.

The contractor and subcontractors shall procure and maintain in force at all times during the term of this agreement, and at its own cost, the following insurance policies required hereunder. Failure to furnish proper evidence of insurance, or the lapse of insurance required under the provisions of the contract, may be grounds for termination.

The insurance companies shall be rated no less than A-7 by AM Best rating service. MSBSD reserves the right to review and revise any of the following insurance requirements, based on insurance market conditions, availability or affordability of coverage, or changes within the scope of work that applies to this contract. In addition, the MSBSD reserves the right to reject any insurance policies that fail to meet the criteria listed within this section, or insurance carriers that are in poor financial condition or become in poor financial condition during the term of this contract.

The Policies of insurance required shall include the following:

1. **WORKERS' COMPENSATION INSURANCE:**
   Workers' Compensation insurance in compliance with the laws of the State of Alaska, with Statutory Limits, and Employers' Liability insurance with a limit no less than $500,000 Bodily Injury by Accident-Each Accident, $500,000 Bodily Injury by Disease-Each Employee, $500,000, Bodily Injury by Disease Policy Limit, and any other coverage that may apply to work performed by employees in this agreement and any project hereunder.

2. **COMMERCIAL GENERAL LIABILITY INSURANCE:**
   Commercial General Liability insurance on an occurrence form with limits of liability not less than $1,000,000 per occurrence bodily injury and property damage, $1,000,000 personal and advertising injury, and $2,000,000 aggregate. Coverage shall include the following extensions: A) Contractual Liability; B) Premises/Operations; and C) Products/Completed Operations.

3. **EXCESS LIABILITY INSURANCE:**
   Contractors and subcontractors shall procure and maintain during the life of this agreement, Excess Liability insurance with a limit of liability not less than $1,000,000 per occurrence or claim, and $1,000,000 policy aggregate.

4. **BUSINESS AUTOMOBILE / MOTOR VEHICLE LIABILITY:**
   The contractors and subcontractors shall procure and maintain during the life of this agreement, Motor Vehicle Liability Insurance with limits of liability of not less than $1,000,000 per occurrence combined single limit bodily injury and property damage. Coverage shall include all owned vehicles, all non-owned vehicles, and all hired vehicles.

5. **ADDITIONAL INSURED:**
   The following shall be listed as an Additional Insured on each policy listed except Workers' Compensation, Professional Liability, and Errors & Omissions: the Matanuska-Susitna Borough School District including all agents, assigns, subsidiaries, subcontractors, employees, and volunteers of the MSBSD.

6. **INDEMNIFICATION AND HOLD HARMLESS:**
   A. The Contractor shall indemnify, defend, and hold harmless the MSBSD from and against any claim of, or liability for, independent or sole negligent acts, errors, omissions, or willful misconduct of the Contractor under this Agreement. The Contractor is not required to indemnify, defend, or hold harmless the MSBSD for any claim of, or liability for, the independent or sole negligent acts, errors, omissions, or willful misconduct of the MSBSD. If there is a claim of, or liability for, a joint negligent act, error, omission, or willful misconduct of the Contractor and the MSBSD, the indemnification, defense, and hold harmless obligation of this provision shall be apportioned on a comparative fault basis. In this provision, "Contractor" and "MSBSD" include the employees, agents, and contractors who are directly responsible, respectively, to each. In this provision, "independent or sole negligent acts, errors, and omissions" means negligence other than in the MSBSD's selection, administration, monitoring, or controlling of the Contractor, or in approving or accepting the Contractor's work.

   B. Any and all claims that might arise under the Worker's Compensation Act on behalf of the Contractor or other persons while engaged in the performance of the duties or services contemplated, and any and all claims that might be made by any third party as a result of any act or failure to act, shall be the Contractor's sole obligation and the Contractor shall indemnify and defend the MSBSD and hold it harmless from any liability for any act or failure to act on the part of the Contractor.

7. **CANCELLATION NOTICE:**
   All insurance policies, as described above, shall include an endorsement stating the following: "thirty (30) days Advance Written Notice of Cancellation or Non-Renewal shall be sent to: MSBSD, Attn: Purchasing Department, 690 Cope Industrial Way, Palmer, AK 99645.

8. **WAIVER OF SUBROGATION:**
   The insurer(s) shall agree to waive all rights of subrogation against the District, its Administrators, officers, officials, employees and volunteers for losses arising from work performed by the Contractor or any of its subcontractors for the District.

9. **CERTIFICATES OF INSURANCE:**
   The contractors and subcontractors shall provide the MSBSD two (2) Certificates of Insurance and/or copies of policies acceptable to the MSBSD for the coverage's listed herein at the time the agreements are returned for execution.

10. **CONTINUATION OF COVERAGE:**
    If any of the above coverage expires during the term of this agreement, the contractors and subcontractors shall deliver renewal certificates of insurance and/or policies to the MSBSD at least ten (10) days prior to the expiration date.

The duties required under this appendix shall survive the termination or expiration of this agreement.

APPENDIX 4:
VENDOR PAPERWORK

Please complete this form in its entirety. Any applicable supplemental documents can be attached as needed. A W-9, available at www.irs.gov/uac/about-form-w9, must be submitted with this form or the application will be denied.

Please check one: ☐ New Vendor Application ☐ Vendor Update/Change

Vendor Legal Name _____ EIN or SSN _____

Operating Name (DBA) _____

Vendor Mailing Address _____

City, State, Zip Code _____

Vendor Remit-To Address _____

City, State, Zip Code _____

Vendor Contact Name _____

Contact E-mail Address _____ Phone # _____

Vendor Website URL _____ Fax # _____

Describe the services, materials, and/or equipment to be provided:

How long have you been in business providing these services, materials, and/or equipment?Describe any special instructions for shipping to Alaska:

Do you accept Purchase Orders (POs)? ☐ Yes ☐ No

How to you prefer to receive POs? Mail ☐ Email ☐ Fax

What is your preferred method of payment? ☐ EFT ☐ Check

Do you provide services to the public? ☐ Yes ☐ No

Do you have a current Business License?Do ☐ Yes ☐ No License # _____ State _____

you have a State of AK Business License?Do ☐ Yes ☐ No License # _____

you have a Mat-Su Business License? ☐ Yes ☐ No License # _____

Are you currently an MSBSD employee? ☐ Yes* ☐ No *Stop. Complete a Conflict of Interest Affidavit.

Are you related to an MSBSD employee? ☐ Yes* ☐ No *Stop. MSBSD employee must complete a Conflict of Interest Affidavit.

Do you have employees? ☐ Yes* ☐ No *Do you carry Worker's Compensation insurance? ☐ Yes ☐ No

Upon request, can you provide three (3) references from individuals/companies you have served? ☐ Yes ☐ No

Authorized Agent Signature (Required) Date Printed Name and Title

Purchasing Department Use Only:

W-9 Attached? ☐ Yes ☐ No

Pre-Pay? ☐ Yes ☐ No

Sent to Acctg.: _____

Approved? Yes ☐ ☐ No* Vendor # _____

Approved/Denied By _____

*Reason for Denial _____

Alt. Vendor # _____ Alt. Vendor Name _____

APPENDIX 5:
PROPOSED SUBCONTRACTORS AND SUPPLIERS LIST

NOTE: Please return this with your bid, if applicable. Put an "X" in the right columns indicating if the company is a sub-contractor or a supplier.

#	ITEM	CONTRACTOR NAME, ADDRESS, & E-MAIL	SUB	SUP
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Signature

Company Name

Date

APPENDIX 6:
PRE-BID CONFERENCE

JANUARY 19, 2024

We will meet at the front doors at the time indicated below. Purchasing and Facilities Personnel will be available to help field questions. All questions will be answered in writing and sent out as an addendum.

Please call the Purchasing Department at (907) 861-5120 or send an email to bids@matsuk12.us with any questions regarding this conference schedule.

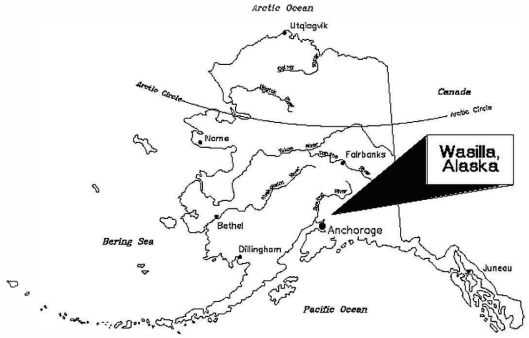
January 19, 2024

School Location	Time of Visit
Knik Elementary School 6350 W. Hollywood Road Wasilla, AK	2:00 p.m. – 3:00 p.m.

KNIK AND GOOSE BAY ELEMENTARY WELL UPGRADES

MATANUSKA-SUSITNA BOROUGH SCHOOL DISTRICT

3901 EAST BOGARD ROAD
WASILLA, AK 99654
907-864-2000



LOCATION MAP

ABBREVIATIONS

AC	ASPHALT CONCRETE
APPROX.	APPROXIMATELY
BGS	BELOW GROUND SURFACE
CPEP	CORRUGATED POLYETHYLENE PIPE
CU	COPPER
DIA, ø	DIAMETER
ELEV	ELEVATION
FT	FEET
F&I	FURNISH AND INSTALL
GAL	GALLONS
GBE	GOOSE BAY ELEMENTARY SCHOOL
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
IN	INCH
KES	KNIK ELEMENTARY SCHOOL
LF	LINEAR FEET
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
O.C.	ON-CENTER
REQ'D	REQUIRED
RD	ROAD
SCH	SCHEDULE
SD	STORM DRAIN
TYP	TYPICAL
UNK	UNKNOWN
±	PLUS OR MINUS

SHEET INDEX

G1.01	COVER
C1.01	SITE PLAN
C2.01	KES WATER SYSTEM DETAILS
C2.02	GBE WATER SYSTEM DETAILS
E1	LEGEND ABBREVIATIONS AND SPECIFICATIONS
E2	ELECTRICAL SITE PLAN AND SCHEDULES
E3	KNIK AND GOOSE BAY ELECTRICAL FLOOR PLANS
E4	ELECTRICAL DETAILS AND PANEL SCHEDULES

PROJECT NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT, PLANS, AND SPECIFICATIONS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, AND LAYOUT PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCY IN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
3. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE IBC, OSHA AND ALL OTHER FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS PERTAINING TO THIS PROJECT. ANY WORK PERFORMED BY THE CONTRACTOR CONTRARY TO SUCH LAWS OR REGULATIONS SHALL BE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.
4. REPAIR OF DAMAGE TO THE EXISTING FACILITY OR ANY EQUIPMENT CAUSED BY CONTRACTOR'S ACTIVITIES SHALL BE AT NO COST TO OWNER.

SCOPE OF WORK

KNIK ELEMENTARY SCHOOL (KES):

FURNISH AND INSTALL NEW WATER WELL INCLUDING CASING, SUBMERSIBLE PUMP ASSEMBLY, WATER SERVICE PIPE, VALVES, FLUSHING HYDRANT, CONTROLS, AND ALL APPURTENANCES AS FURTHER DETAILED IN THE ATTACHED PLANS AND SPECIFICATIONS.

GOOSE BAY ELEMENTARY SCHOOL (GBE):

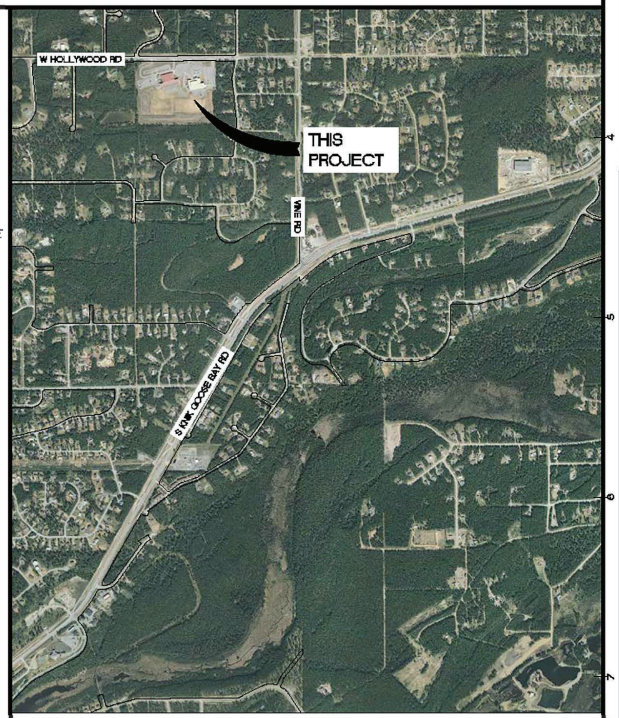
REMOVE THE EXISTING SUBMERSIBLE WELL PUMP ASSEMBLY AND F&I DROP PIPE WITH A NEW SUBMERSIBLE WELL PUMP ASSEMBLY AND DROP PIPE. FURNISH AND INSTALL NEW FLUSHING HYDRANT, VALVES, AND ALL APPURTENANCES AS FURTHER DETAILED IN THE ATTACHED PLANS AND SPECIFICATIONS.

SEQUENCE OF CONSTRUCTION

1. F&I, TEST, AND DEVELOP NEW 6" WELL AT KES.
2. FURNISH AND INSTALL ALL FLUSHING HYDRANTS, ISOLATION VALVES, AND YARD PIPING SHOWN ON THE PLANS.
3. F&I NEW WELL PUMP ASSEMBLY AND CONTROLS AT KES.
4. FULLY COMMISSION KES WELL.
5. REMOVE EXISTING WELL PUMP ASSEMBLY AT GBE. F&I NEW WELL PUMP ASSEMBLY AND DROP PIPE. UPDATE CONTROLS AS SHOWN ON THE PLANS.
6. FULLY COMMISSION NEW GBE WELL.

LEGEND (UNLESS NOTED OTHERWISE)

PROPOSED	EXISTING	
Ⓦ	Ⓦ	WELL
		STORM DRAIN FIELD INLET
	—SD—	STORM DRAIN PIPE
—W—	—W—	WATER LINE
	—UE—	UNDERGROUND ELECTRIC
	—UT—	UNDERGROUND TELEPHONE
⋈		GATE VALVE
		FLUSHING HYDRANT



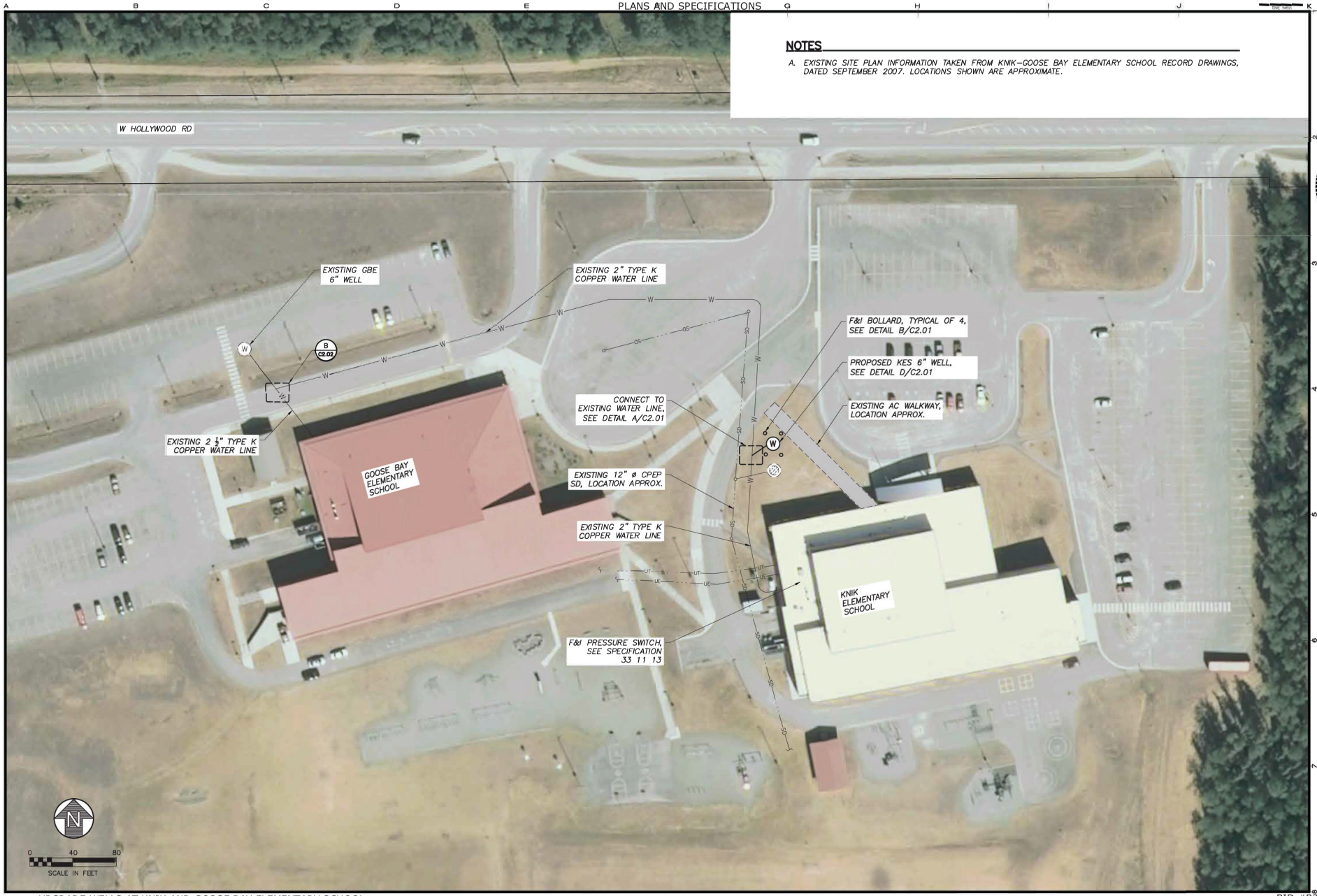
VICINITY MAP

0 1000 2000
SCALE IN FEET

HDL ENGINEERING Consultants LLC
civil · geotechnical · surveying · environmental · materials testing
ANCHORAGE
907.644.2120
3335 Arctic Boulevard, Suite 100 Anchorage, AK 99503
AECL3651
MAT-SU
907.746.2220
www.HDLalaska.com

KNIK & GOOSE BAY ELEMENTARY WELL UPGRADES
MATANUSKA-SUSITNA BOROUGH SCHOOL DISTRICT
WASILLA, ALASKA

SHEET TITLE: COVER
SHEET: G1.01
DRAWN BY: JLG
DESIGNED BY: LRK
DATE: DEC 2022
SCALE: AS NOTED
JOB NUMBER: 22-011



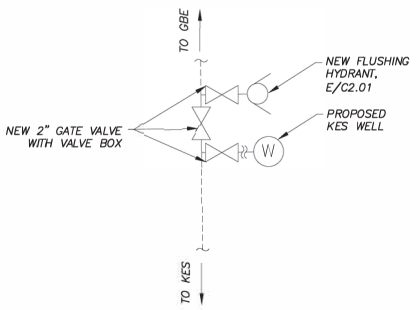
REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

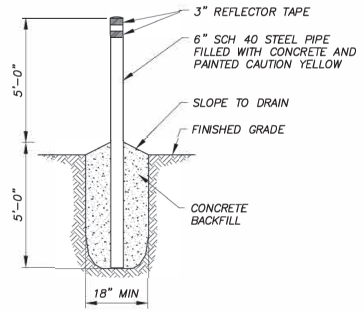
HDL ENGINEERING Consultants LLC
civil · geotechnical · surveying · environmental · material testing
ANCHORAGE
907.564.2120
MAT-SU
907.746.5230
3335 Arctic Boulevard, Suite 1g0 Anchorage, AK 99503
www.HDLalaska.com
AECL861

KNIK & GOOSE BAY ELEMENTARY WELL UPGRADES
MATANUSKA-SUSITNA BOROUGH SCHOOL DISTRICT
WASILLA, ALASKA

SHEET TITLE: SITE PLAN
SHEET: C1.01
DRAWN BY: JLG
CHECKED BY: LRK
DATE: DEC 2022
SCALE: AS NOTED
JOB NUMBER: 22-011



A C2.01 **KES VALVE SCHEMATIC**
SCALE: NONE



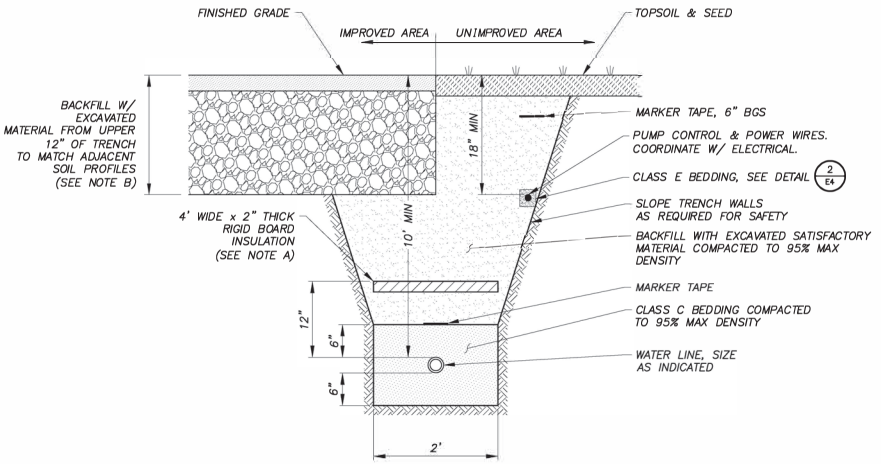
B C2.01 **TYPICAL BOLLARD**
SCALE: NONE

NOTES

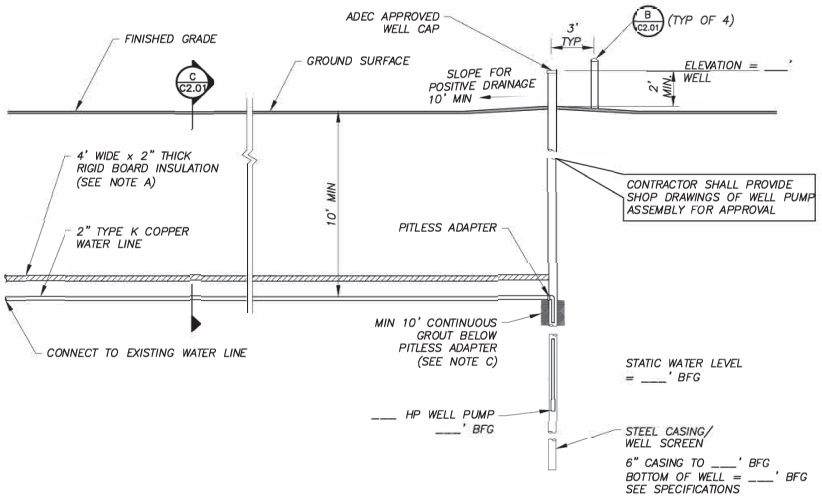
A. INSULATION ONLY REQUIRED WHERE COVER ABOVE WATER LINE IS LESS THAN 10'.

B. SEPARATE UPPER 12" OF TRENCH EXCAVATION IN IMPROVED AREAS FOR RE-USE AS SHOWN, WITHOUT CONTAMINATION WITH MATERIALS EXCAVATED LOWER IN THE TRENCH. WORK IS TO BE INCLUDED UNDER THE LUMP SUM CONTRACT BASE BID. WHERE MATERIAL IS NOT ADEQUATELY SEPARATED AND CONTAMINATION OCCURS, ENGINEER MAY REQUIRE REMOVAL OF MATERIAL AND REPLACEMENT WITH TYPE II CLASSIFIED FILL AT NO EXTRA COST TO OWNER.

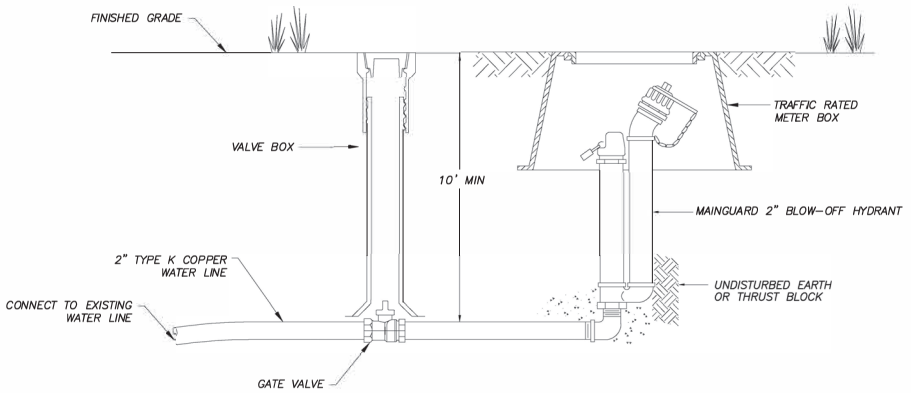
C. CONTRACTOR SHALL USE SURFACE SEAL CASING OF APPROPRIATE SIZE AND LENGTH TO PROVIDE GROUT AS SHOWN. SURFACE SEAL CASING SHALL BE REMOVED AFTER GROUT IS INSTALLED.



C C2.01 **WATER TRENCH TYPICAL SECTION**
SCALE: NONE



D C2.01 **KES WATER SYSTEM PROFILE**
SCALE: NONE



E C2.01 **FLUSHING HYDRANT DETAIL**
SCALE: NONE

REVISIONS

LETTER	DATE	DESCRIPTION
1		
2		
3		
4		
5		

HDL ENGINEERING Consultants LLC
civil · geotechnical · surveying · environmental · material testing
ANCHORAGE
907.564.2120
3335 Arctic Boulevard, Suite 100 Anchorage, AK 99503
907.746.5230
MAT-SU
www.HDLalaska.com
AECL1861

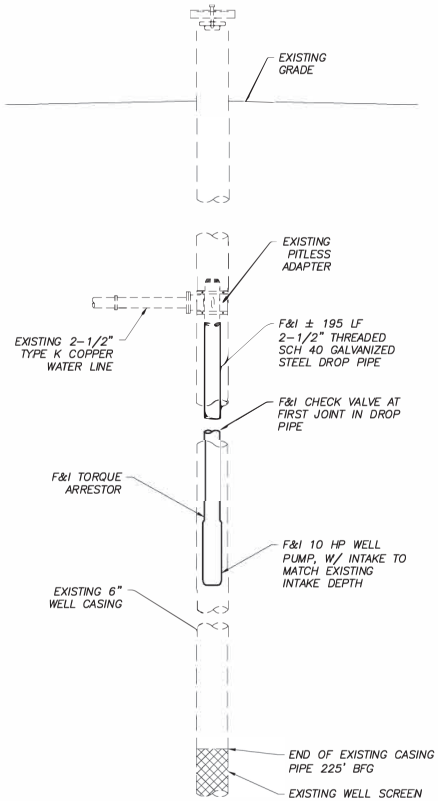
KNIK & GOOSE BAY ELEMENTARY WELL UPGRADES
MATANUSKA-SUSITNA BOROUGH SCHOOL DISTRICT
WASILLA, ALASKA

SHEET TITLE: KES WATER SYSTEM DETAILS

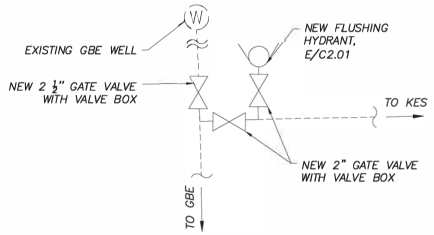
SHEET: C2.01

DRAWN BY	CHECKED BY
JLG	LRK
DATE	SCALE
DEC 2022	AS NOTED

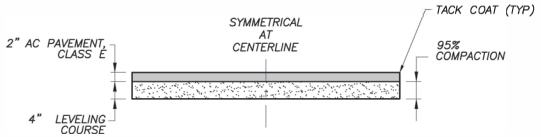
JOB NUMBER: 22-011



A C2.02 **GBE WATER SYSTEM PROFILE**
SCALE: NONE



B C2.02 **GBE VALVE SCHEMATIC**
SCALE: NONE



C C2.02 **TYPICAL PAVEMENT SECTION**
SCALE: NONE

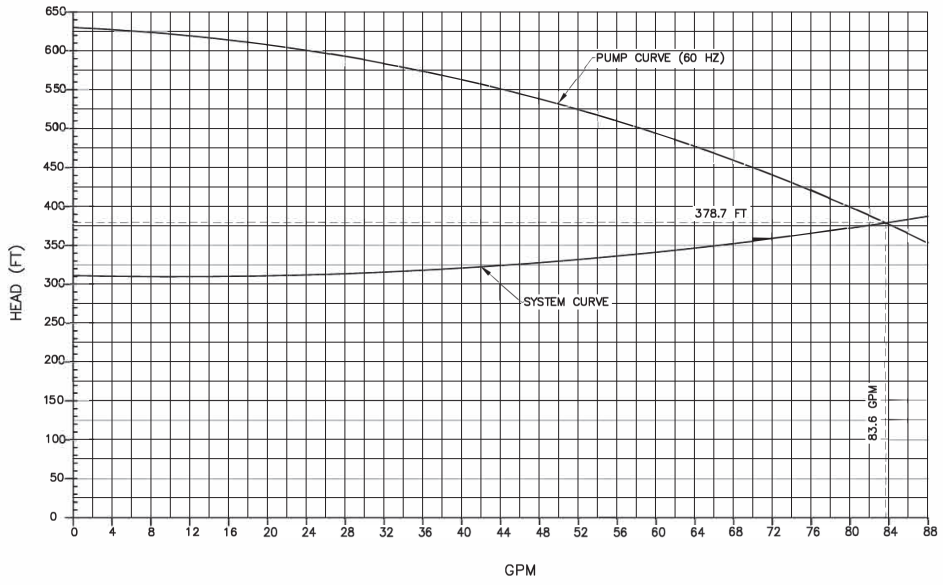
NOTES

A. EXISTING WATER SYSTEM INFORMATION TAKEN FROM KNIK-GOOSE BAY ELEMENTARY SCHOOL RECORD DRAWINGS, DATED MARCH 1991. LOCATIONS AND DIMENSIONS SHOWN ARE APPROXIMATE.

GBE GENERAL DESIGN CRITERIA		
TOP OF EXISTING WELL SCREEN	225	FT BGS
WATER LEVEL	171	FT BGS
TOTAL DESIGN HEAD	381	FT
OPERATING POINT	85	GPM

GBE PROPOSED PUMP FLOW DATA		
PUMP MAKE AND MODEL	GOULDS 85GS100-M100434	
PUMP HORSEPOWER	10	HP
OPERATING POINT	378.7 / 83.6	FT/GPM
VOLTAGE	460	V
PHASE	3	–

GBE SYSTEM AND PUMP CURVE



REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		
4		
5		

HDL ENGINEERING Consultants LLC
civil · geotechnical · surveying · environmental · material testing
ANCHORAGE
907.564.2120
3335 Arctic Boulevard, Suite 100 Anchorage, AK 99503
MAT-SU
907.746.5230
www.HDLalaska.com
AECL861

KNIK & GOOSE BAY ELEMENTARY WELL UPGRADES
MATANUSKA-SUSITNA BOROUGH SCHOOL DISTRICT
WASILLA, ALASKA

SHEET TITLE: GBE WATER SYSTEM DETAILS
SHEET: C2.02
DRAWN BY: JLG
CHECKED BY: LRK
DATE: DEC 2022
SCALE: AS NOTED
JOB NUMBER: 22-011

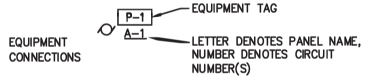
ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
———	EXPOSED CONDUIT
- - - -	UNDERGROUND CONDUIT
	3/4" X 10' COPPER CLAD STEEL GROUND ROD
	CONDUIT RUN – CHANGE IN ELEVATION
	LIQUID–TIGHT FLEXIBLE METALLIC CONDUIT
	HOME RUN
–UE–	UNDERGROUND ELECTRIC
–OE–	OVERHEAD ELECTRIC
–W–	WATERLINE
–SD–	STORM DRAIN
–UT–	UNDERGROUND TELEPHONE
PC	PHOTOCELL
KWH	KILOWATT–HOUR METER
	PANELBOARD
	MOLDED CASE CIRCUIT BREAKER, X = AMPERE RATING, Y = NO. OF POLES
M	MOTOR, 3–PHASE
M	MOTOR, SINGLE PHASE
	STARTER – COMBINATION
	STARTER – FUSED
	DISCONNECT SWITCH
	STARTER – THERMAL
GFI	GROUND FAULT INTERRUPTING (GFI) RECEPTACLE
	120V DUPLEX RECEPTACLE NEMA 5–20R
J	JUNCTION BOX OR FITTING
	FLOAT
OTHER SYMBOLS ARE AS DEFINED BY NOTE.	

PROJECT SUMMARY

THE PROJECT INCLUDES THE FOLLOWING WORK:
1. REMOVAL AND REPLACEMENT OF THE EXISTING GOOSE BAY ELEMENTARY WELL PUMP WITH A SMALLER PUMP (WP–1) INCLUDING ASSOCIATED ELECTRICAL CHANGES.
2. INSTALLATION OF A NEW WELL PUMP (WP–2) AT KNIK ELEMENTARY INCLUDING MOTOR STARTER AND BRANCH CIRCUIT.

EQUIPMENT TAG LEGEND



GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, STATE, MUNICIPAL, AND FEDERAL LAWS, AMENDMENTS AND/OR ORDINANCES GOVERNING THE PROJECT. IF DIRECT CONFLICT ARISES BETWEEN DESIGN DOCUMENTS AND GOVERNING CODES, LAWS, AND/OR ORDINANCES, THE CODES, LAWS, AND/OR ORDINANCES SHALL HAVE JURISDICTION AND THE WORK IN QUESTION SHALL BE INSTALLED ACCORDING TO THE CODES, LAWS, AND/OR ORDINANCES. ALL WORK SHALL BE PERFORMED BY OR UNDER THE DIRECT SUPERVISION OF A STATE OF ALASKA LICENSED JOURNEYMAN ELECTRICIAN.
2. MATERIALS AND EQUIPMENT SHALL BE COMMERCIAL GRADE AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED. ALL ELECTRICAL EQUIPMENT SHALL INCLUDE THE SEAL OF A NATIONALLY RECOGNIZED TESTING LABORATORY FOR THE PURPOSE FOR WHICH IT IS INSTALLED. WHENEVER POSSIBLE, SIMILAR ITEMS SHALL BE SUPPLIED BY THE SAME MANUFACTURER THROUGHOUT THE PROJECT.
3. COORDINATE AND PROVIDE THE EQUIPMENT WITH THE SHORT CIRCUIT CURRENT RATING (SCCR) FOR THE AVAILABLE FAULT CURRENT AT THE POINT OF THE SYSTEM WHERE INSTALLED.
4. DIMENSIONS OF EQUIPMENT ARE APPROXIMATE. INSTALLATION SHALL BE VERIFIED BASED ON ACTUAL MANUFACTURER'S DATA AND SHOP DRAWINGS.
5. ALL SITE WORK AND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS. VERIFY ALL INSTALLATIONS PRIOR TO COMMENCEMENT OF WORK. COORDINATE ALL WORK WITH UTILITIES AS REQUIRED.
6. CONTRACTOR SHALL SUBMIT REQUEST FOR SUBSTITUTION IN WRITING TO THE ENGINEER.
7. PROVIDE SEISMIC SUPPORT AND DESIGN PER IBC REQUIREMENTS.
8. WHERE EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS, MULTIPLE PARALLEL LINES MAY BE ENCOUNTERED IN THE SAME TRENCH OR GENERAL AREA. SINGLE LINES WERE SHOWN FOR CLARITY.
9. ALL BELOW GRADE UTILITIES MAY NOT BE SHOWN. FIELD VERIFY ALL BELOW GRADE UTILITIES BEFORE DIGGING. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

ELECTRICAL ABBREVIATIONS

A	ANALOG SIGNAL, AMPERE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
BCU	BARE COPPER
C	CONDUIT
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
CU	COPPER
E	EMERGENCY
(E)	EXISTING
FLA	FULL LOAD AMPERES
FS	FLOW SWITCH
G	GROUND CONDUCTOR
GBE	GOOSE BAY ELEMENTARY
GFI	GROUND FAULT INTERRUPTING
GRC	GALVANIZED RIGID (STEEL) CONDUIT
HDPE	HIGH DENSITY POLYETHYLENE CONDUIT
HL	HIGH LEVEL
HOA	HAND–OFF–AUTO
HP	HORSEPOWER
KES	KNIK ELEMENTARY SCHOOL
KVA	KILO–VOLT–AMPERES
LTF	LIQUID TIGHT FLEXIBLE CONDUIT (METALLIC)
MLO	MAIN LUG ONLY
MTS	MANUAL TRANSFER SWITCH
(N)	NEW
N.I.C.	NOT IN CONTRACT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN, NUMBER
PH	PHASE
PR	PAIR
SIG	SIGNAL
SS	STAINLESS STEEL
STL	STEEL
TWSH	TWISTED WIRE SHIELDED
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SPECIFICATIONS

26 01 26 – TESTING OF ELECTRICAL SYSTEMS

A. TEST ALL POWER CONDUCTORS PRIOR TO TERMINATION WITH A MEGAOHM METER PER THE MANUFACTURER'S RECOMMENDATIONS. REPLACE ALL CONDUCTORS EXHIBITING LESS THAN 10 MEGAOHM IMPEDANCE. REPEAT TESTING AS REQUIRED TO VERIFY COMPLIANCE.

26 05 00 – COMMON WORK RESULTS FOR ELECTRICAL

A. SYSTEM DESCRIPTION:
1. SCOPE OF WORK: FURNISH, INSTALL, TEST AND PLACE INTO SATISFACTORY AND SUCCESSFUL OPERATION ALL MATERIALS, EQUIPMENT, DEVICES AND NECESSARY APPURTENANCES TO PROVIDE COMPLETE SYSTEM POWER, AND CONTROLS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
2. ALL COMPONENTS FOR THE PROJECT SHALL BE LISTED OR LABELED BY UL (UNDERWRITERS LABORATORIES), FM (FACTORY MUTUAL) OR OTHER AGENCIES RECOGNIZED BY THE STATE OF ALASKA MECHANICAL INSPECTIONS DIVISION. WORK SHALL COMPLY WITH ALL LISTED AND APPLICABLE INDUSTRY STANDARDS, CODES, LOCAL ORDINANCES AND MANUFACTURER'S INSTRUCTIONS.
3. SYSTEM SHALL BE COMPLETE AND SHALL INCLUDE ALL TERMINATIONS AND SPLICES TO PROVIDE A FUNCTIONAL SYSTEM.
4. PROJECT CONDITIONS: CONTRACTOR SHALL VERIFY IN THE FIELD THAT DIMENSIONS, ROUTING AND CONNECTION LOCATIONS SHOWN ON THE DRAWINGS ARE REASONABLY ACCURATE.

B. STANDARDS, CODES AND REGULATIONS:
1. NFPA 70 – NATIONAL ELECTRICAL CODE, LATEST ADOPTED EDITION.
2. IBC – INTERNATIONAL BUILDING CODE, LATEST ADOPTED EDITION.
3. IFC – INTERNATIONAL FIRE CODE, LATEST ADOPTED EDITION.
4. LOCAL CODES AND AMENDMENTS.

C. SUBMITTALS:
1. GENERAL: PROVIDE SUBMITTALS OF ALL MATERIAL AND EQUIPMENT. INCLUDE CATALOG NUMBERS, PERFORMANCE DATA, WIRING DIAGRAMS, SHOP DRAWINGS AND ROUGH–IN DIMENSIONS.
2. MANUFACTURER'S INSTALLATION INSTRUCTIONS: INCLUDE INSTRUCTIONS FOR STORAGE, HANDLING, PROTECTION, EXAMINATION, PREPARATION AND INSTALLATION OF PRODUCTS.

D. OPERATION AND MAINTENANCE DATA:
1. PROVIDE ALL MANUFACTURER'S RELEVANT MAINTENANCE AND OPERATING INSTRUCTIONS INCLUDING PROCEDURES NECESSARY FOR SYSTEM START–UP, OPERATION, EMERGENCY OPERATION AND SHUTDOWN.
2. MANUAL SHALL BE INDEXED, LABELED AND SHALL INCLUDE MAINTENANCE INSTRUCTIONS, PRODUCT DATA, SHOP DRAWINGS AND STEP BY STEP PROCEDURES FOR INSPECTION, REPAIR, CLEANING AND CALIBRATION.

E. EQUIPMENT CONNECTIONS:
1. PROVIDE WIRING AND CONNECTION TO EQUIPMENT REQUIRING ELECTRICAL POWER BUT SPECIFIED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS. REVIEW SUBMITTALS PRIOR TO INSTALLATION AND ROUGH–IN. VERIFY SIZE, AND TYPE OF CONNECTIONS.

F. PENETRATIONS:
1. ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED BARRIERS SHALL BE SEALED IN ACCORDANCE WITH NEC AND THE MANUFACTURERS INSTRUCTIONS. MATERIALS SHALL BE SUITABLE FOR THE FIRE STOPPING OF PENETRATIONS AND CAPABLE OF MAINTAINING AN EFFECTIVE BARRIER AGAINST FLAME, SMOKE AND GASES IN COMPLIANCE WITH THE REQUIREMENTS OF ASTM, UL AND OTHER INDUSTRY STANDARDS.
2. THE RATING OF THE FIRE STOPS SHALL BE THE SAME AS THE RATED FLOOR, WALL OR CEILING ASSEMBLY.

G. EXECUTION
1. INSTALLATION OF ALL WORK SHALL BE MADE SO THAT ALL COMPONENT PARTS ARE INSTALLED AND FUNCTION AS A COMPLETE, WORKABLE SYSTEM.
2. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), NECA 1, AND THE STANDARDS AND CODES LISTED IN PART 1. WHERE QUESTIONS ARISE REGARDING WHICH REQUIREMENTS AND STANDARDS APPLY, THE MORE STRINGENT SHALL PREVAIL.
3. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS AND RECOMMENDATIONS OF THE PRODUCT MANUFACTURER.
4. REPLACE AND/OR REPAIR TO ORIGINAL (OR BETTER) CONDITION ANY EXISTING STRUCTURES, MATERIALS, EQUIPMENT, ETC. INADVERTENTLY DAMAGED OR DEMOLISHED DURING THE COURSE OF CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

25 05 19 – WIRE AND CABLE

A. ALL EXTERIOR WIRING SHALL BE COPPER WITH TYPE XHHW–2 INSULATION UNLESS OTHERWISE NOTED. INTERIOR WIRING SHALL BE COPPER TYPE THHN OR THWN.

B. MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE SHALL BE #12 AWG. MINIMUM CONTROL CIRCUIT SIZE SHALL BE #14 AWG.

C. COLOR CODING SHALL BE AS FOLLOWS AND CONSISTENT THROUGHOUT THE ENTIRE INSTALLATION.
1. 208/120V, 3PH, 4W:
PHASE A – BLACK, PHASE B – RED,
PHASE C – BLUE, NEUTRAL – WHITE.
2. 480/277V, 3PH, 4W:
PHASE A – BROWN, PHASE B – ORANGE,
PHASE C – YELLOW, NEUTRAL – GRAY

D. USE PROPERLY SIZED INSULATED WIRE CONNECTORS WITH PLASTIC CAPS FOR ALL CONDUCTORS #8 AWG AND SMALLER. TERMINATE #6 AND LARGER WITH CRIMP OR COMPRESSION TYPE CONNECTORS INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS AND INSULATE WITH PROPERLY SIZED 600 VOLT RATED HEAT SHRINK TUBING AND ELECTRICAL TAPE.

26 05 26 – GROUNDING AND BONDING:

A. ALL GROUNDING AND BONDING SHALL COMPLY WITH NEC, STANDARDS AND CODES LISTED IN PART 1, MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODES.

B. PROVIDE EQUIPMENT GROUNDING CONDUCTOR WITH ALL CIRCUITS.

25 05 33 – RACEWAY AND BOXES FOR ELECTRICAL SYSTEM

A. ALL EXTERIOR OR BELOW GRADE WIRING SHALL BE INSTALLED IN GALVANIZED RIGID METALLIC CONDUIT (GRC). INTERIOR WIRING SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) OR INTERMEDIATE METALLIC CONDUIT (IMC) UNLESS OTHERWISE NOTED. ALL FITTINGS, CONNECTORS, BOXES, ETC. SHALL BE APPROVED FOR USE AS GROUNDING MEANS.

B. UTILIZE SHORT EXTENSIONS (36 INCH MINIMUM) OF FLEXIBLE, LOW TEMPERATURE LIQUIDTIGHT CONDUIT FOR CONNECTIONS OF ALL MOTORS AND OTHER EQUIPMENT SUBJECT TO VIBRATION.

C. USE COMPRESSION TYPE CONNECTORS FOR EMT CONDUIT. SETSCREW TYPE ARE NOT ALLOWED.

D. COMPLETELY AND THOROUGHLY CLEAN AND SWAB RACEWAY SYSTEM BEFORE INSTALLING CONDUCTORS.

E. ALL UNDERGROUND CONDUIT SHALL BE BURIED A MINIMUM OF 18 INCHES AND IN ACCORDANCE WITH NEC.

F. JUNCTION BOXES:
1. WITH GRC: PROVIDE CAST STEEL BOXES WITH THREADED HUBS AND GASKETED COVERS.
2. WITH EMT: PROVIDE PRESSED STEEL BOXES WITH ALUMINUM COVERS.

26 05 53 – IDENTIFICATION FOR ELECTRICAL SYSTEMS

A. PROVIDE ENGRAVED LAMINATED PLASTIC NAMEPLATES WITH BLACK LETTERS ON A WHITE BACKGROUND TO IDENTIFY ALL ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT, AND LOADS SERVED AS NOTED ON THE DRAWINGS.

B. LETTER HEIGHTS SHALL BE 1/8 INCH FOR INDIVIDUAL SWITCHES, MOTOR STARTERS AND 1/2 INCH ON PANELBOARDS AND CONTROL PANELS. SECURE NAMEPLATES TO EQUIPMENT FRONTS USING SCREWS OR RIVETS.

C. PROVIDE WIRE MARKERS FOR ALL POWER AND CONTROL CIRCUITS IDENTIFYING BRANCH OR FEEDER CIRCUIT AND WIRE NUMBER INDICATED ON CONTROL SYSTEM SHOP DRAWINGS.

D. PROVIDE UPDATED TYPED PANELBOARD SCHEDULES FOR ALL MODIFIED PANELBOARDS..

26 24 00 – CIRCUIT BREAKERS

A. MANUFACTURER
1. SQUARE D OR APPROVED EQUAL

B. CIRCUIT BREAKERS SHALL MATCH THE MOUNTING STYLE (BOLT–ON OR PLUG–IN), SHORT CIRCUIT RATING AND MANUFACTURER OF THE EXISTING PANELBOARDS THEY ARE BEING INSTALLED IN.

C. BRANCH CIRCUIT BREAKERS: NEMA AB1, MOLDED CASE, THERMAL MAGNETIC TRIP WITH COMMON TRIP HANDLE FOR ALL POLES.

26 29 00 – CONTROLLERS

A. MANUFACTURER
1. SQUARE D OR APPROVED EQUAL.

B. COMBINATION STARTERS: NEMA ICS, FULL VOLTAGE, NON–REVERSING, MAGNETIC TYPE, NEMA RATED FOR MOTOR SERVED. STARTERS SHALL INCLUDE EXTERNAL MANUAL RESET AND SOLID STATE THERMAL OVERLOAD RELAY UNITS W/ PHASE LOSS, PHASE REVERSAL AND UNDER/OVERVOLTAGE PROTECTION. PROVIDE ADDITIONAL AUXILIARY AND OVERLOAD CONTACTS AS REQUIRED. STARTERS SHALL INCLUDE MANUAL DISCONNECTS AND BE CONFIGURED TO ACCOMMODATE ALL REQUIRED EQUIPMENT AS INDICATED ON THE DRAWINGS.

REVISIONS		
MARK	DATE	DESCRIPTION
1		
2		
3		
4		
5		

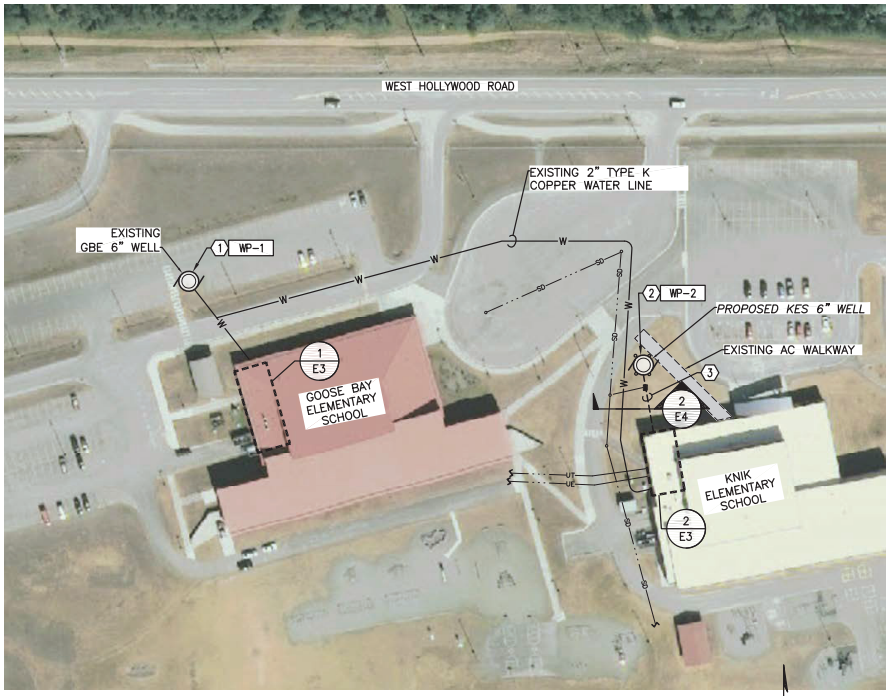
STATE OF ALASKA 49TH
Jeffrey H. Foschan
EE 8286
REGISTERED PROFESSIONAL ENGINEER
8/23/22

EDC, INC.
213 W. FIREWEED LANE
ANCHORAGE, AK 99503
(907) 276-7083
LICENSE NO. AECC705

KNIK & GOOSE BAY ELEMENTARY WELL UPGRADES
MATANUSKA-SUSITNA BOROUGH SCHOOL DISTRICT
WASILLA, ALASKA

SHEET TITLE
LEGEND ABBREVIATIONS AND SPECIFICATIONS
SHEET
E1
DRAWN BY:
CHECKED BY: JF
DATE: AUGUST 22
SCALE: AS NOTED
JOB NUMBER
22–011

P:\Projects\WELLS\Knik Elementary Well pump\Dwgs\Elec\E1 LEGEND ABBREVIATIONS AND SPECIFICATIONS.dwg PLOT DATE: 2022–8–23 15:42 SAVED DATE: 2022–08–23 15:36



1 / E2 ELECTRICAL SITE PLAN
SCALE: 1"=40'-0"
0 40' 80'

SHEET NOTES

1. (E) WELL PUMP TO BE REMOVED AND (N) WELL PUMP INSTALLED. RE-CONNECT (N) WELL PUMP TO (E) BRANCH CIRCUIT CONDUCTORS AT THE WELL HEAD.
2. (N) WELL PUMP IN (N) WELL. SEE DETAIL 1, SHEET E4.
3. (N) WELL CONDUIT AND CONDUCTORS, SEE EQUIPMENT CONNECTION SCHEDULE.

EQUIPMENT CONNECTION SCHEDULE

TAG ID	LOAD					CIRCUIT SIZE	NOTES
	KVA	HP	FLA	V	PH		
WP-1	–	10	14	460	3	(E) CIRCUIT	1
WP-2	–	10	30.8	208	3	1"C, 3#6, 1#8(G)	2

NOTE 1: WELL PUMP IS BEING DOWNSIZED FROM A 20HP TO A 10HP UNIT.
NOTE 2: MAXIMUM ANTICIPATED HP SIZE AND VOLTAGE FOR WP-2 IS SHOWN AND IS TO BE USED FOR BID PURPOSES. HP AND VOLTAGE OF PUMP TO BE DETERMINED BY THE CONTRACTOR AND CIRCUIT SIZE TO BE ADJUSTED ACCORDINGLY.

KNIK ELEMENTARY SERVICE SIZE CALCULATION

EXISTING 12 MONTH MAXIMUM DEMAND LOAD =	111.5	kVA
NEC FACTOR 0.25% =	27.9	kVA
Subtotal =	139.4	kVA

ADDITIONAL DEMAND LOAD

ITEM	DESCRIPTION		
1	Well Pump - MAX 10 HP =	11.1	kVA
	SUBTOTAL =	11.1	kVA

TOTAL SERVICE DEMAND LOAD =	**150.5**	**kVA**
	418.2	**AMPS @ 208v**

1,600 AMP ELECTRICAL SERVICE

GENERAL NOTES

1. THE GOOSE BAY ELEMENTARY SERVICE LOAD CALCULATION WAS NOT PERFORMED SINCE THE OVERALL LOAD WAS REDUCED.

REVISIONS

MARK	DATE	DESCRIPTION
1		
2		
3		
4		
5		

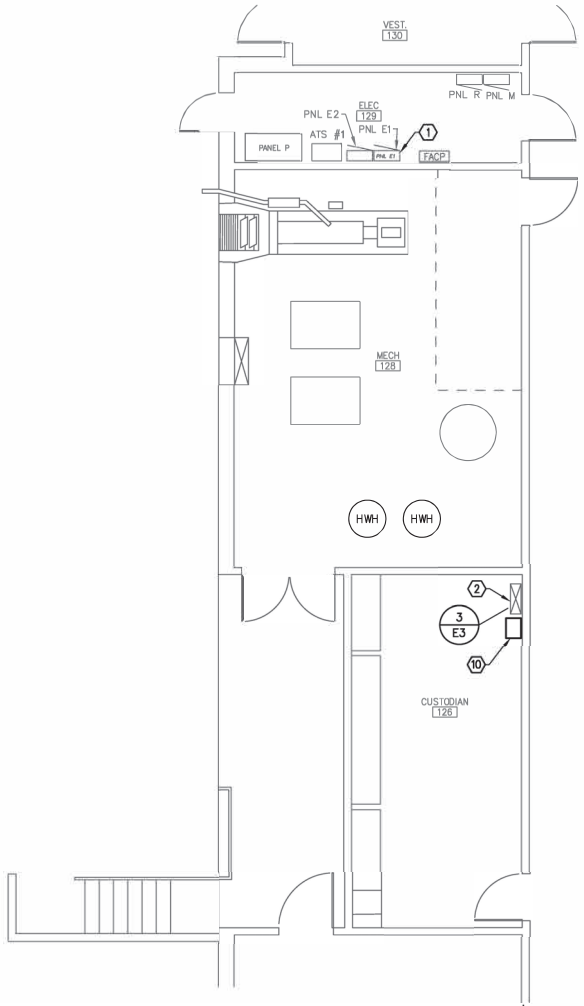
STATE OF ALASKA — 7469 TH — Jeffrey H. Faschan — EE 8286 — REGISTERED PROFESSIONAL ENGINEER
8/23/22

LDC, INC.
213 W. FIREWEED LANE
ANCHORAGE, AK 99503
(907) 276-7583
LICENSE NO. AECC7705

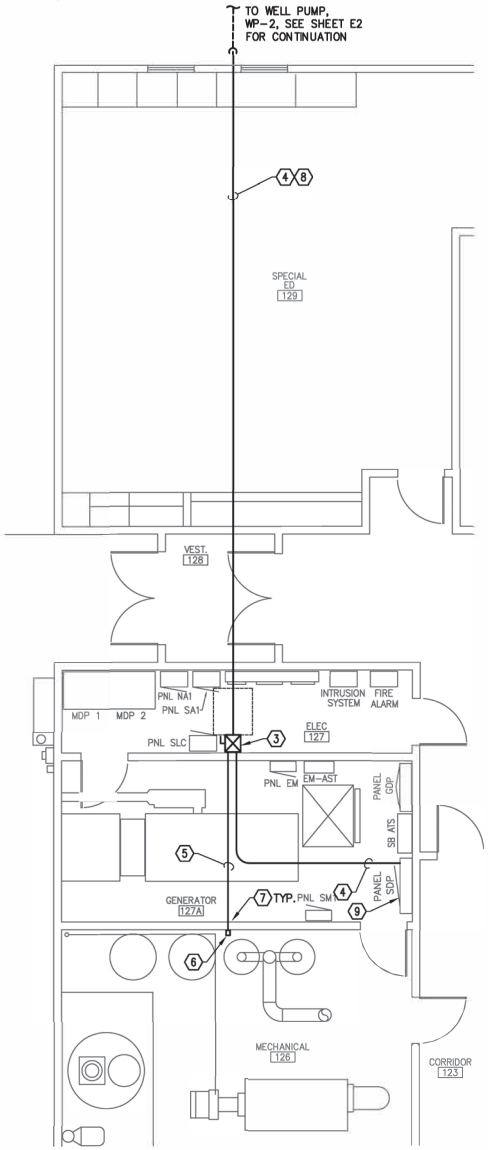
KNIK & GOOSE BAY ELEMENTARY WELL UPGRADES
MATANUSKA-SUSITNA BOROUGH SCHOOL DISTRICT
WASILLA, ALASKA

SHEET TITLE: ELECTRICAL SITE PLAN AND SCHEDULES
SHEET: E2
DRAWN BY: | CHECKED BY: JF
DATE: AUGUST 22 | SCALE: AS NOTED
JOB NUMBER: 22-011

P:\Projects\MSD\Knik Elementary Well pump\Dwgs\Elec\E2 ELECTRICAL SITE PLAN AND SCHEDULE.dwg PLOT DATE 2022-8-23 15:43 SAVED DATE 2022-08-23 15:38



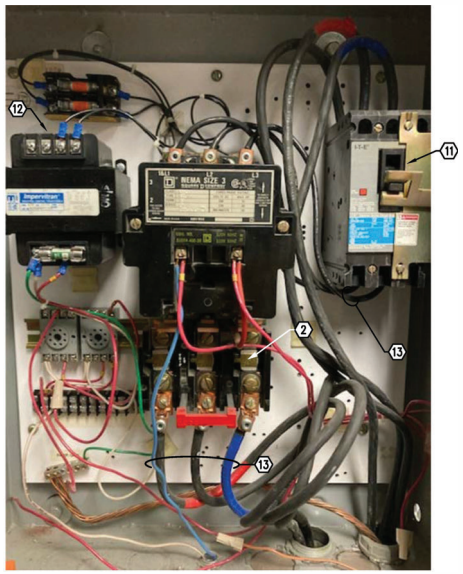
1 E3 GOOSE BAY ELEMENTARY PARTIAL ELECTRICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"
0 4' 8'



2 E3 KNIK ELEMENTARY PARTIAL ELECTRICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"
0 4' 8'

SHEET NOTES

1. REPLACE (E) CIRCUIT BREAKER FOR WELL PUMP IN PANEL 'E1'. SEE PANEL SCHEDULE ON SHEET E4 FOR DETAILS.
2. REPLACE THERMAL OVERLOADS IN (E) WELL PUMP (WP-1) CONTROL PANEL MOTOR STARTER (SQUARE D CLASS 8536 TYPE SE01) TO MATCH (N) WELL PUMP FULL LOAD CURRENT RATING.
3. (N) WELL PUMP (WP-2), 208V, 3-POLE, 10HP, SIZE 2, NEMA 12, COMBINATION MOTOR STARTER, WITH DISCONNECT SWITCH. H-O-A SWITCH, RUN AND FAULT PUSH-TO-TEST, LED, PILOT LIGHTS, SQUARE D, TYPE SDA21V02H30 OR EQUAL. STARTER SIZE, HP, AND VOLTAGE RATING SPECIFIED IS FOR BID PURPOSE ONLY. STARTER SHALL MATCH ACTUAL PROVIDED WELL PUMP SELECTED SIZE AND RATING. SEE SCHEMATIC DETAIL 3, SHEET E4. PROVIDE 208:480 TRANSFORMER FOR NEW PUMP AS REQUIRED.
4. WELL PUMP, (WP-2) CIRCUIT. SIZE PER EQUIPMENT SCHEDULE ON SHEET E2.
5. 3/4"C, 3#12 (2SIG, G). WELL PUMP (WP-2) PRESSURE CONTROL SIGNAL.
6. (N) PRESSURE SWITCH FOR CONTROL OF WELL PUMP (WP-2). SEE CIVIL FOR DETAILS.
7. PROVIDE FIRE CAULK TO SEAL ALL CONDUIT WALL PENETRATIONS TO MAINTAIN FIRE RATING.
8. ROUTE ABOVE DROP CEILING IN ROOMS 128 AND 129.
9. PROVIDE (N) CIRCUIT BREAKER IN PANEL 'SDP' AS SHOWN ON SHEET E4 PANEL SCHEDULE.
10. INSTALL (N) 15KVA TRANSFORMER, (SQUARE D CAT# EX15T212H OR EQUAL) ADJACENT TO WP-1 CONTROL PANEL. FIELD LOCATE. SEE PARTIAL ONE-LINE ON SHEET E4 FOR DETAILS.
11. REPLACE (E) CIRCUIT BREAKER WITH A NEW 30A, 3-POLE BREAKER.
12. CHANGE CONNECTION ON HIGH SIDE OF CONTROL TRANSFORMER FROM 208V TO 460V.
13. PROVIDE PHASE TAPE TO PROPERLY IDENTIFY ALL 460V CONDUCTORS IN THE CONTROL PANEL. REPLACE LABELS TO PROPERLY IDENTIFY (N) WELL PUMP VOLTAGE AND CHARACTERISTICS.



3 E3 GOOSE BAY WELL PUMP CONTROL PANEL
SCALE: 1/4" = 1'-0"
0 4' 8'

REVISIONS

MARK	DATE	DESCRIPTION
1		
2		
3		
4		
5		

STATE OF ALASKA
49TH
Seth H. Foschan
EE 8286
REGISTERED PROFESSIONAL ENGINEER
8/23/22

EDC, INC.
210 W. FIREWEED LANE
ANCHORAGE, AK 99503
(907) 276-7583
LICENSE NO. AECC705

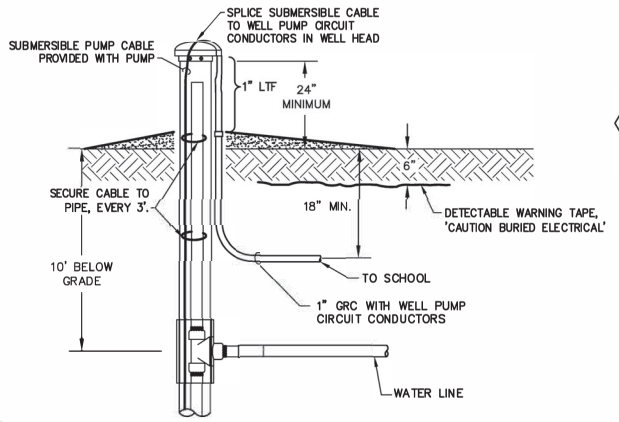
KNIK & GOOSE BAY ELEMENTARY WELL UPGRADES
MATANUSKA-SUSITNA BOROUGH SCHOOL DISTRICT
WASILLA, ALASKA

SHEET TITLE
KNIK AND GOOSE BAY ELECTRICAL FLOOR PLANS

SHEET E3

DRAWN BY: | CHECKED BY: JF
DATE: AUGUST 22 | SCALE: AS NOTED
JOB NUMBER: 22-011

P:\Projects\WDL\Knik Elementary Well pump\Dwgs\Elec\E3 KNIK AND GOOSE BAY ELECTRICAL FLOOR PLANS.dwg PLOT DATE 2022-8-23 15:42 SAVED DATE 2022-08-23 15:37



1 / E4 WELL PUMP DETAIL
SCALE: NTS

(E) PANEL 'E1' SCHEDULE

VOLTAGE: 208/120 | BUS: 400A | MAIN: MLO | LOCATION: GOOSE BAY ELEMENTARY ELEC RM 129 | MIN. A.I.C. RATING: | ENCLOSURE: NEMA 1 | MOUNTING: SURFACE

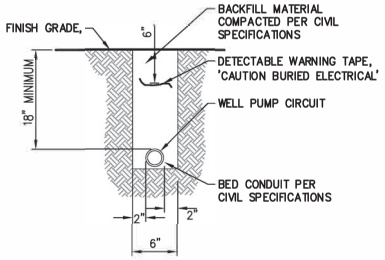
CKT	AMP	LOAD DESCRIPTION	KVA	LOAD	A	B	C	LOAD	KVA	LOAD DESCRIPTION	AMP	CKT
1					0.0					HWT	20/1	2
3	50/3	WELL PUMP, WP-1				0.0				SUMP PUMP	20/1	4
5							0.0			HWT #1	20/1	6
7					0.0					SPRINKLER RM LIGHTS & OUTLET	20/1	8
9		SPACE				0.0				SPRINKLER TANK	20/1	10
11							0.0			SUMP PUMP	20/1	12
13					0.0							14
15	35/3	VFD				0.0				PUMP 2-B	20/3	16
17							0.0					18
19	20/1	PUMP 4-B			0.0							20
21						0.0				PUMP 3-B	20/3	22
23	20/3	BOILER VFD					0.0					24
25					0.0					RECEPTS RM 128, 129	20/1	26
27	20/1	GAS UNIT HEATER				0.0				LIGHTS RM 126, 128, 129	20/1	28
29	20/1	BATT. CHARGER					0.0			SPARE	20/1	30
31	20/1	GEN BLOCK HEATER			0.0							32
33	20/1	FIRE SYSTEM AIR COMP				0.0						34
35	20/1	SPARE					0.0			FIRE PUMP	125/3	36
37	20/1	UNIT HEATERS RM 124-128-129			0.0							38
39	20/1	CONTROL BOILER RM				0.0						40
41	20/1	CONTROL BOILER RM SCU 50					0.0					42
*					0.0	0.0	0.0					

TOTAL KVA: 0.0
AMPS: 0.0

SHEET NOTES

1. REPLACE THE (E) 6-SPACE, 110A, CIRCUIT BREAKER WITH A 3-POLE, 50A CIRCUIT BREAKER AND A 3-SPACE BLANK COVER.
2. PROVIDE (N) BREAKER IN (E) SPACE AS SHOWN. BREAKER AMP RATING TO BE SIZED PER SELECTED WELL PUMP MANUFACTURER'S RECOMMENDATION. SIZE SHOWN FOR BID PURPOSE.
3. (N) PRESSURE SWITCH. SEE CIVIL FOR DETAILS.
4. PROVIDE MOTOR STARTER WITH A CENTRIPRO PUMPSAVER MODEL 777 MOTOR PROTECTOR. SET FOR TRIP CLASS 10 AND TO PROTECT MOTOR FOR A RUN DRY CONDITION.
5. 15KVA, 208:480/277V, 3-PHASE TRANSFORMER.
6. (E) BRANCH CIRCUIT TO WP-1 CONTROL PANEL, INTERCEPT (E) CIRCUIT AND RE-CONNECT AT (N) TRANSFORMER.
7. #6 BCU BOND TO BUILDING STEEL.
8. (E) WP-1 CONTROL PANEL REPLACE MAIN BREAKER AND OVERLOADS TO MATCH (N) PUMP.
9. (N) WELL PUMP, 10HP, 480V, 3-PHASE.

CIRCUIT / FEEDER SCHEDULE	
TAG	DESCRIPTION
1	3/4"C, 4#12, (3H,G)
2	(E) WELL CIRCUIT



NOTES:
1. DETAIL DIMENSIONS SHOWN ARE MINIMUM WITH EXCEPTION OF DETECTABLE WARNING TAPE, WHICH SHALL BE AS SHOWN.

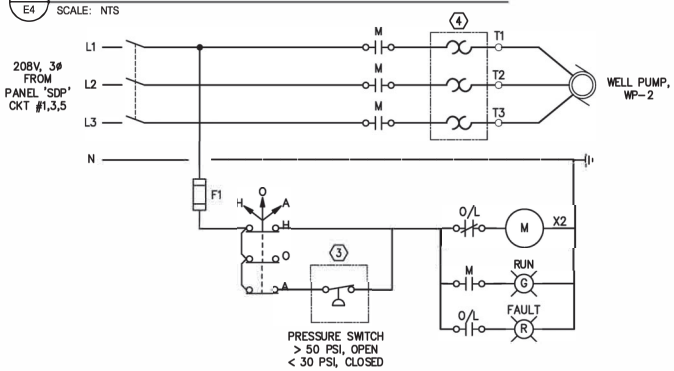
2 / E4 TRENCH DETAIL
SCALE: NTS

PANEL 'SDP' SCHEDULE

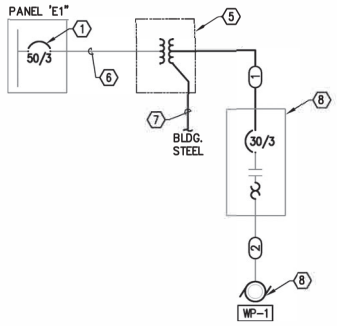
VOLTAGE: 208/120 | BUS: 400A | MAIN: MLO | LOCATION: KNIK ELEMENTARY GEN RM 127A | MIN. A.I.C. RATING: 22,000 | ENCLOSURE: NEMA 1 | MOUNTING: SURFACE

CKT	AMP	LOAD DESCRIPTION	KVA	LOAD	A	B	C	LOAD	KVA	LOAD DESCRIPTION	AMP	CKT
1			3.7	M	3.7							2
3	80/3	WELL PUMP, WP-2	3.7	M		3.7						4
5			3.7	M			3.7					6
7					0.0							8
9						0.0						10
11							0.0					12
13			9.4	F	9.4							14
15	100/3	PANEL SA1	8.4	F		8.4						16
17			10.7	F			10.7					18
19			8.3	F	8.3							20
21	150/3	PANEL SLC	6.9	F		6.9				SPARE	100/3	22
23			8.0	F			8.0					24
25			6.1	F	25.1			F	19.0			26
27	200/3	PANEL SF1	8.2	F		22.6		F	14.4	PANEL SM1	200/3	28
29			5.5	F			24.2	F	18.7			30
*					46.5	41.6	46.6					

TOTAL KVA: 134.7
AMPS: 373.9



3 / E4 WELL PUMP, WP-2 SCHEMATIC
SCALE: NTS



4 / E4 WP-1 PARTIAL ONE-LINE
SCALE: NTS

REVISIONS			
MARK	DATE	DESCRIPTION	
1			
2			
3			
4			
5			

STATE OF ALASKA
49TH
John H. Foschan
IDE 8288
REGISTERED PROFESSIONAL ENGINEER
8/23/22

EDC, INC.
210 W. FIREWEED LANE
ANCHORAGE, AK 99503
(907) 278-7583
LICENSE NO. AECC705

KNIK & GOOSE BAY ELEMENTARY WELL UPGRADES
MATANUSKA-SUSITNA BOROUGH SCHOOL DISTRICT
WASILLA, ALASKA

SHEET TITLE: ELECTRICAL DETAILS AND PANEL SCHEDULES
SHEET: E4
DRAWN BY:
CHECKED BY: JF
DATE: AUGUST 22
SCALE: AS NOTED
JOB NUMBER: 22-011

P:\Projects\WDL\Knik Elementary Well pump\Dwgs\Dwgs\E4 POWER ONE-LINE AND PANEL SCHEDULES.dwg PLOT DATE 2022-8-23 15:42 SAVED DATE 2022-08-23 15:38

SECTION 33 11 13 – POTABLE WATER SUPPLY WELLS

PART 1 - GENERAL

1.1 DESCRIPTION

Knik Elementary School (KES):

Design and construct new water well including casing, submersible pump assembly, water service pipe, valves, flushing hydrant, controls, and all appurtenances as further detailed in the attached Plans and Specifications.

Goose Bay Elementary School (GBE):

Remove and replace the existing submersible well pump assembly and drop pipe with a new submersible well pump assembly and drop pipe. Furnish and install new flushing hydrant, valves, and all appurtenances as further detailed in the attached Plans and Specifications.

1.2 REFERENCE STANDARDS AND SECTIONS

Alaska Department of Environmental Conservation (ADEC) Regulations 18 AAC 80

American Water Works Association

AWWA A100 – Standard for Water Wells

AWWA C651 – Disinfecting Water Mains

AWWA C654 – Disinfecting Water Wells

ASTM International

ASTM A53 – Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless

ASTM B88 – Specification for Seamless Copper Water Tube

ASTM C150 – Standard Specification for Portland Cement

Uniform Plumbing Code, latest edition

National Sanitation Foundation NSF Standard 60 & 61

1.3 SUBMITTALS

Provide the following:

A construction schedule and sequence of work to be performed.

A complete list of materials to be used, including well casing, well screen, sanitary seal, well pump, well controls, watertight well cap, pitless adapter and water pipe.

Accurately record actual locations for depth of pitless adapter, grouting depth, casing depth, static water depth, well depth, pump set elevation and water line bury depth and provide locations on record drawings.

Provide well log and certification that the well installation is in compliance with the reference standards and specifically with ADEC requirements.

Provide well development record including, but not be limited to, date, time, and elevation of water level in the well, before development; depth to bottom of well, name of project and date of development; method used for development, to include size, type and make of equipment, bailer, and/or pump used; time spent developing the well by each method, to include typical pumping rate, if pump is used; volume and physical character of water removed, to include changes during development in clarity, color, particulates, and odor; volume of water added to the well, if any; volume and physical character of sediment removed, to include changes during development in color, and odor; source of any water added to the well; clarity of water before, during, and after development; total depth of well and the static water level as per ASTM D 4750 from top of the casing, immediately after pumping/development, and 24 hours after development; name and job title of individual developing well; and name and/or description of the disposal facility/area, for the waters removed during development.

Provide disinfection report for the well and piping. Report shall include type and form of disinfectant used, date and time of disinfectant injection start and completion, sampling locations, name of sampler, initial ppm of disinfectant and residual disinfectant ppm of disinfectant after 24 hours for each sample location, date and time of flushing start and completion, and residual disinfectant ppm after flushing at each sample location. Disinfectant shall be certified to NSF 60.

Provide water testing report and certification that testing was performed in compliance with ADEC regulations. Report shall include date of report, project name, testing laboratory name, address and telephone number, time, date and location of water sample collection, name of sampler, and coliform bacteria, inorganic chemicals, nitrate, volatile organic chemicals and secondary chemical levels for each sample.

Provide pressure testing report. Report shall include time and date of test, name of tester, and initial and final test pressure.

Provide disposal plan for waters containing high amounts of disinfectant.

1.4 QUALITY ASSURANCE

Perform Work in accordance with ADEC regulations, AWWA A100, AWWA C651 and Uniform Plumbing Code.

PART 2 - PRODUCTS

2.1 MATERIALS

Use only new materials that conform to plan details, or as specified. All materials shall comply with NSF Standard 61. Only lead-free pipe, flux and solder may be used.

2.2 WELL PUMP

KES:

Well pump shall provide a minimum of 85 GPM at 50 psi to the mechanical pressure tank and shall have a stainless steel motor, pump and impeller. Contractor shall select a well pump based on actual flow available and well depth. Ensure pump operates properly using controls and transformers as specified under Sheet E4, “Electrical Details and Panel Schedules”.

GBE:

Goulds 85GS100 submersible Pump and CentriPro M100434 10 HP motor as further detailed on Sheet C2.02, or approved equal. Ensure pump operates properly using controls and transformers as specified under Sheet E4, “Electrical Details and Panel Schedules”.

2.3 WELL CASING

Case the well with 6-inch diameter standard weight black pipe, Grade A or B, with beveled ends, meeting ASTM A 53.

2.4 WELL SCREEN

Determine screen length, area, size of openings, and material after exploring water-bearing strata and analyzing samples from the strata. The Engineer will approve screen criteria depending on thickness and uniformity of water-bearing strata, analysis of aquifer samples, well requirements, and the screen manufacturer’s recommendations. Obtain representative samples of sands and water in the aquifer. Take the sand sample after obtaining a satisfactory yield according to Section 3.06. Submit the samples and a copy of the drilling log to the screen manufacturer. Give the Engineer copies of transmittals to and from the screen manufacturer.

Use a final length of screen as recommended by the screen manufacturer and approved by the Engineer. Use the largest diameter that can be installed in the casing.

Use a screen made of either silicon steel or stainless steel, based on chemical analysis of the well water. Screen must be strong enough to resist damage during installation and external force after installation. Do not change screen alignment after installation.

Provide fittings of the same material as the screen needed to seal top of screen tightly to casing and to close bottom of screen. If screen is installed inside casing, provide a lead packer seal at top

of screen with 12-inch minimum overlap of casing and screen. If screen is attached to casing, provide suitable coupling or weld screen to casing.

2.5 DROP PIPE

Use 2-1/2" Schedule 40 galvanized steel pipe with galvanized couplings meeting ASTM A 53.

2.6 PITLESS ADAPTER

Use commercially available, 2-1/2" pitless adapter, Campbell Mfg, Baker Mfg, Boshart Industries, or approved equal.

2.7 TORQUE ARRESTOR

Shall be installed directly above the well pump and at intervals along the drop pipe per manufacturer recommendations.

2.8 FLUSHING HYDRANT

Use 2" Mainguard #78 below grade flushing hydrant manufactured by Kupferle, or approved equal.

2.9 GATE VALVE

Use Mueller A-2362-8 resilient wedge gate valve with threaded ends, or approved equal.

2.10 GROUT

Use grout consisting of 1 part Portland cement in accordance with ASTM C150 and 3 parts sand mixed with only enough water to form a workable mix. Use of bentonite or other additives to reduce shrinkage, reduce permeability, increase fluidity or control setting time must be approved by the Engineer.

2.11 WATER SERVICE PIPE

Use 2-inch soft-drawn, seamless, annealed ASTM B88 Type K copper pipe with flared fittings. Use minimum number of fittings as practical.

2.12 DISINFECTION

Use Liquid Chlorine, Calcium Hypochlorite, or Sodium Hypochlorite.

2.13 PRESSURE SWITCH

Use CentriPro or approved equal, compatible with selected pump assembly. Adjusted to a 30-50 psi operating range. Locate switch with Engineer. Pressure switch shall be installed with an accompanying pressure gauge and isolation valve that allows the pressure switch and gauge to be isolated for replacement.

PART 3 - EXECUTION

3.1 CONSTRUCTION REQUIREMENTS

Drawings indicate general location and arrangement of well and piping systems. Indicated locations and arrangements were used to size pipe and calculate friction loss, expansion, pump sizing, and other design considerations. Locate all facilities as shown on the Drawings, unless deviations are approved on Shop Drawings. Complete the water system and ensure it operates properly at the time of acceptance of the work. Furnish and install all incidental parts not shown on the Plans or specified in this Section that are necessary to complete the water system.

Install piping at indicated slope and free of sags and bends. Use fittings for changes in direction.

Coordinate piping materials, sizes, entry locations, and pressure requirements with building water piping.

Consult the Plans for estimated locations of other utilities near the construction. Use this data for information only. The City does not guarantee their accuracy. Confirm and mark the exact locations of all existing utilities before starting work.

Excavate, bore, or probe by hand ahead of work where necessary to determine the exact location of underground conduit or other features that might interfere with construction. Support and protect conduits or other services that cross the trench. Immediately repair or replace any existing utilities that you break or damage.

3.2 WATER PIPE INSTALLATION

Install pipe and fittings according to these Specifications or the manufacturer's recommendations. Lay pipe to the grades and lines shown on the Plans.

Remove all foreign matter from pipe interior before lowering into the trench. When work is not in progress, securely close all open ends of pipe and fittings to keep out trench water, earth, rodents or other substances.

Keep trenches dry to avoid laying pipe in water. Do not lay pipe when weather or trench conditions are unsuitable. Keep water away from new joints, until the joint materials have hardened.

Use methods to cut pipe that will produce tight joints and will not damage the pipe.

Inspect conduit before lowering it into the trench. Replace defective, damaged, or unsound pipe.

Place pipe bedding to conform to plan details. Place bedding, if required, to give pipe a uniform bearing for its full length. Do not permit couplings to rest on solid or original trench bottoms.

Pipe bends must not exceed the manufacturer's recommended limits. If the specified or required alignment requires deflections beyond the limits, furnish special bends or enough shorter lengths of pipe to provide angular deflection within the limits.

Use standard lengths of pipe except where fittings require short lengths. Use the least number of fittings as possible

Install pipe with a minimum cover of 10 feet unless indicated otherwise.

Install warning tape 6 inches above the buried pipeline.

3.3 WATER PIPE TESTING

Open bore flush service pipe and perform hydrostatic test. The Contractor shall furnish all necessary assistance, equipment, labor, materials and supplies necessary to complete the test to the satisfaction of the Engineer. Bleed all air from the line. Pressurize the line to 150 psi and terminate pumping. If the pressure remains constant for 30 minutes without the aid of the pump, the line will be considered watertight.

Notify the Engineer 48 hours prior to test and notify the Engineer two hours in advance of the scheduled time if the test is to be delayed. In the event the Engineer does not receive adequate notification, the Contractor shall reimburse the Engineer for all expenses incurred, including but not limited to salary, transportation and administrative costs

3.4 WATER PIPE DISINFECTION

Disinfect line by introducing a chlorine-water mixture into the line to achieve a dosage of 40 ppm to 50 ppm chlorine concentration. All fixtures on the line shall be opened to allow treatment to pass through. Maintain disinfectant in the system for 24 hours at which time a residual of 5 ppm chlorine shall be present in all parts of the water line.

Flush, circulate and clean pipeline until all residual chlorine has been removed. Take samples from representative points in the system and submit to testing laboratory for bacteriological examination. Repeat disinfection until satisfactory results are obtained.

Legally dispose of chlorinated water. Submit disposal plan for approval by Engineer and ADEC.

3.5 WATER WELL CONSTRUCTION

GENERAL

Drill, develop, case, and test wells. Furnish and place all materials at the sites as detailed on the Plans. Procure all required permits, certificates, and licenses.

Engineer does not guarantee the presence of water at the anticipated depth. The exact depth will depend on adequate yield and quality.

The water well for this facility is classified as a Non-Transient, non-Community Water Source (NTNCWS).

Protection of Site

Protect all structures, trees, shrubbery, etc., during the work. Remove from the site all cuttings, drillings, debris, and unused materials. Conduct water pumped from the well to a designated disposal area so as to not cause erosion or other damage to property or create a nuisance.

Bore and Casing

Drill the well straight, plumb, and large enough to receive the size of casing specified. Either weld or thread casing joints. Make the inside of the casing reasonably smooth and watertight. Casing shall extend a minimum of 24 inches above the finished ground surface.

Tolerance for Plumb:

The maximum allowable horizontal deviation (drift) of the well from the vertical shall not exceed a level that allows a pump assembly of nominal diameter 2" smaller than the nominal casing size to be installed without bending.

Tolerance for Alignment:

A pump of nominal diameter 2" smaller than the nominal casing size shall be able to be installed in the completed well to the top of the well screen without bending.

Correction of Faulty Plumbness and/or Alignment:

Should the completed well fail to meet the tolerances specified above, the Contractor shall correct such defects at his own expense.

Boring Log

Keep an accurate log of all materials encountered and the depths at which the changes in the formations occur, together with other information as required. Take samples of the materials found in each stratum at intervals of 5 feet or less. Preserve samples in your own receptacles. Mark the samples plainly to show the depth below the ground surface at which the sample was obtained. Include full, descriptive notes of everything found during drilling and of all difficulties or unusual conditions. Describe all waterbearing strata in detail. Indicate whether the material is loose or compact, what color it is, and, if the material is gravel, whether it is water-worn or angular. Note the presence of any clay. After completing the well, deliver one copy of the log and results of the yield test to the Engineer for transmittal to the State according to AS 41.08.

Protecting Water Supply

Take all precautions as directed or necessary to prevent contaminated water, or water with undesirable physical or chemical characteristics, from entering the stratum from which the well will draw its supply. Take all necessary precautions during construction to prevent

contaminated water, gasoline, etc., from entering the well through the opening or seeping through the ground surface.

Corrective Work

If the well becomes contaminated, or if water with undesirable physical or chemical characteristics enters the well due to Contractor's neglect, perform corrective work at your expense. Supply casings, seals, sterilizing agents, or other necessary materials to eliminate the contamination or shut off the undesirable water.

Temporary Capping

At all times during the work, protect the well to prevent tampering or contamination with foreign matter. After completing the well, provide and set a substantial screwed or flanged cap 24 inches above the finished ground surface, or as directed.

Testing and Developing

Yield Test. After completing the bore or as directed, pump to determine the yield. Submit proposed pumping procedures for review and approval. Determine the approximate level of water in the well before the yield test and immediately after completion. The desired yield is 85 gallons per minute with a sustained yield of 5 ,100 gallons per hour. The minimum yield test duration shall be 8 hours.

Furnish, install, and operate equipment of approved size and type for measuring the flow of water and depth to the water level in the well. Use a suitable flow-measuring device such as a weir box, orifice, or water meter.

If the well yield test does not provide the desired flow rates specified above, contractor shall evaluate the geologic and hydrologic well data and decide on another course of action. Submit proposed procedure to provide adequate flow within 10 working days.

After receiving approval for a satisfactory yield test, but before developing the well, take a water sample and submit it to an ADEC-approved laboratory for a bacteriological and chemical examination. Pay for all costs of samples and analysis.

a. Developing. After completing drilling, develop and clean out the well. Develop the well with a suitable surge plunger or other device designed to develop wells in the water-bearing formation you encounter. Develop to give the maximum practical yield of water per foot of drawdown. Develop to extract from the water-bearing formation the practical maximum quantity of such fine materials that may, during the life of the well, be drawn into the casing when the well is pumped under maximum drawdown conditions. After completing developing, remove all sediment to the full depth of the well. Contractor's equipment and material remain their property; remove them at the end of the work. Prepare and provide to the Engineer a well development record.

Screen

Install well screen in accordance with the screen manufacturer's recommendations and as appropriate to the well-drilling method used

Grouting

When the well is accepted, ream the upper 10 feet of the bore to a diameter at least 8 inches greater than the casing OD. Center the casing in this section and hold it in place with enough spacers to maintain true alignment. Place grout in the area around the casing. Place the grout so that surface water and other impurities cannot infiltrate the well along the bore and casing. Use an approved grouting method. Force grout from the bottom of grout space toward the ground surface. Use a continuous grouting operation. Use continuous spacers of clean, durable material suitable for concrete aggregate.

Allow the grout to set for 3 days before doing any work that may disturb it or cause it to crack. Take care to protect the grout from damage and ensure proper curing during the 3-day setting period.

Abandonment of Well

If water supply is not satisfactory, abandon the well. Plug the abandoned well bore with impervious material as required. Compensation for abandoning well bores will be made in accordance with GP 90-05.

If drilling is abandoned at one location and began at another because of Contractor's operations, or if a satisfactory well bore as specified or required is not completed, plug the abandoned bore as specified. No compensation will be made for any work performed at the abandoned site. Salvaged materials remain your property.

3.6 WELL PUMP ASSEMBLY

Install the drop pipe and pump as detailed on the Plans. Set the pump plumb on the casing. Furnish and install all required miscellaneous hardware not specified or detailed so that the water system will operate properly.

On the basis of the yield test, the Contractor shall stipulate the depth to the bottom of casing and the pump set elevation.

3.7 WELL DISINFECTION

After completing the pump assembly, disinfect the well by adding chlorine or hypochlorite in sufficient quantity so that a concentration of at least 50 ppm of chlorine shall be obtained in all parts of the well. Chlorine solution shall be prepared and introduced into the well in an approved manner and shall remain in the well for period of at least 12 hours but not more than 24 hours. Information on methods for preparing chlorine solution and introducing it into the well may be found in AWWA C654. After the contact period, the well shall be pumped until the residual chlorine content is not greater than 1.0 ppm. The well shall be pumped to waste for an additional 15 minutes with less than 1 ppm chlorine residual after which two samples shall be taken not less than 30 minutes apart and tested for the presence of coliform bacteria.

Obtain sample bottles from an ADEC-approved testing laboratory. Collect water samples as specified by Table B in 18 AAC 80.205 (c) (2), and submit them to a State approved laboratory

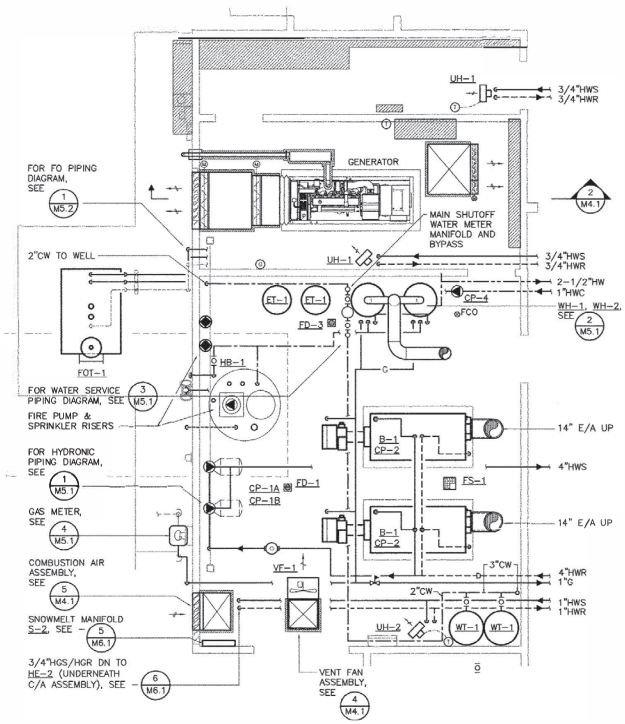
for testing. If the sample does not meet Public Health requirements, disinfect again and draw more samples until results are satisfactory.

Legally dispose of chlorinated water. Submit disposal plan for approval by Engineer and ADEC.

3.8 WELL PERMITTING

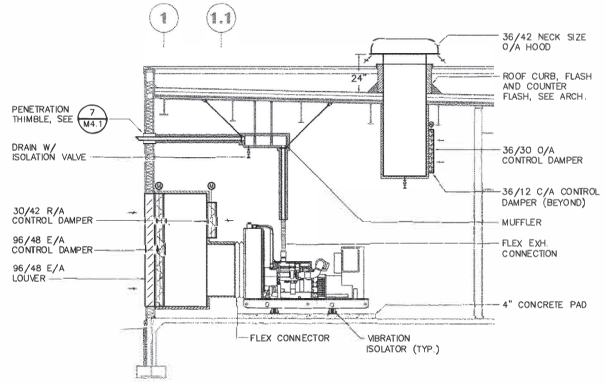
After completing well disinfection, submit copies of satisfactory test results to the Engineer for submission to ADEC. Engineer will obtain both interim and final approvals to operate the new well and water system

END OF SECTION 33 11 13



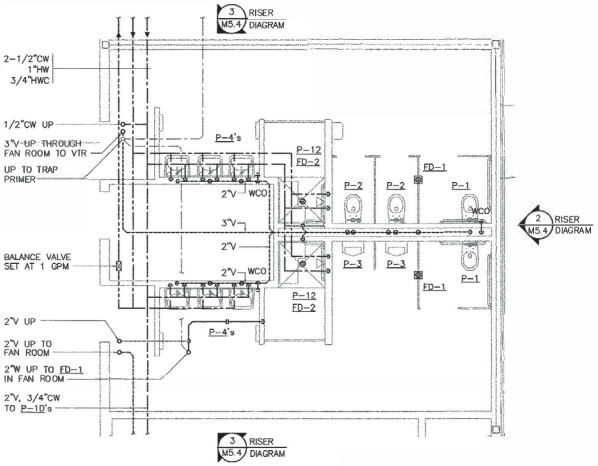
1 / M4.1 ENLARGED BOILER ROOM PLAN

SCALE: 1/4" = 1'-0"



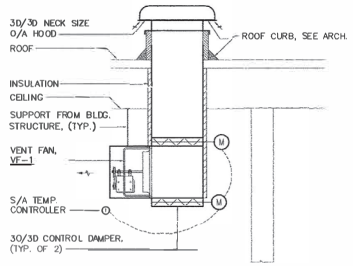
2 / M4.1 GENERATOR ROOM SECTION

SCALE: 1/4" = 1'-0"



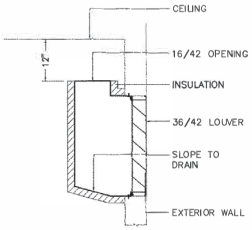
3 / M4.1 ENLARGED LOCKER ROOM PLAN

SCALE: 1/4" = 1'-0"



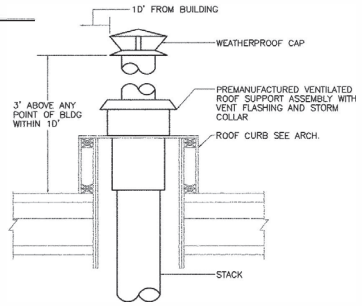
4 / M4.1 VENTILATION FAN DETAIL

SCALE: NONE



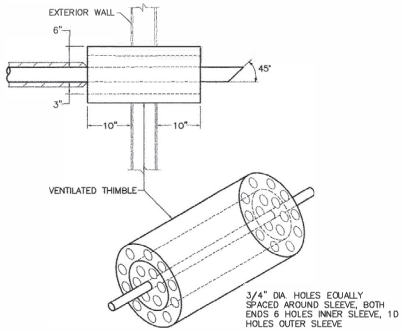
5 / M4.1 COMBUSTION AIR DETAIL

SCALE: NONE



6 / M4.1 BOILER FLUE DETAIL

SCALE: NONE



7 / M4.1 EXHAUST THIMBLE DETAIL

SCALE: NONE

RECORD SET
THESE RECORD DRAWINGS WERE PREPARED FROM CONTRACT DOCUMENTS. FIELD MODIFICATIONS MADE DURING THE CONSTRUCTION PROCESS AND INFORMATION SUPPLIED BY THE CONTRACTOR.
ENGINEER: DATE:
CONTRACTOR: DATE:

HAY, ZIERLEW & ASSOCIATES, LLC
1316 W. Northern Lights Blvd., Suite 200
Anchorage, Alaska 99503-2647
No. AA0100122 Exp. 12/31/2008

porath laiom architects, inc.
8818 east dimond blvd. ste. 3-870 (tech floor)
anchorage, alaska 99515-2015
ph. (907) 348 9428 fax. (907) 348 9329
e-mail: admin@porathlaiom.com

UNIT COMPANY General Contractors

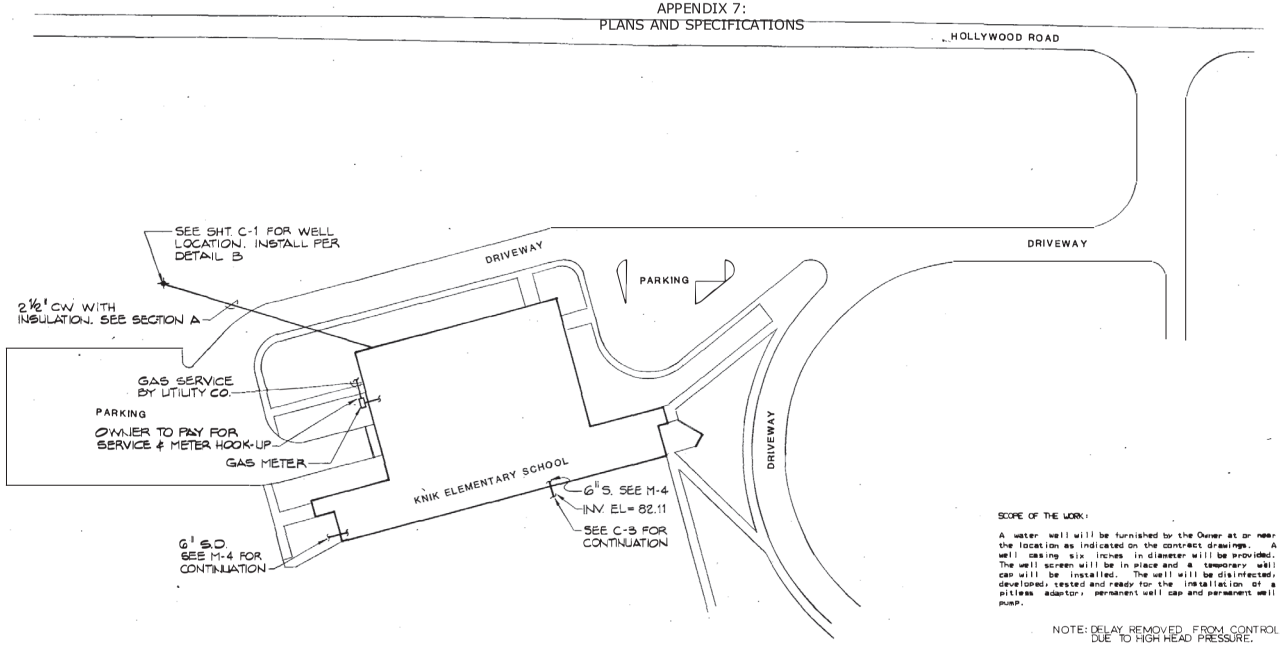
KNIK GOOSE BAY ELEMENTARY SCHOOL
6400 HOLLYWOOD BOULEVARD
WASILLA, ALASKA

ENLARGED PLANS AND SECTIONS

Drawing Date:	02/02/07
Drawn By:	JWK
Checked By:	CCH
Job No.:	20061070
Revisions:	

M4.1

© Hay, Zierlew & Associates LLC

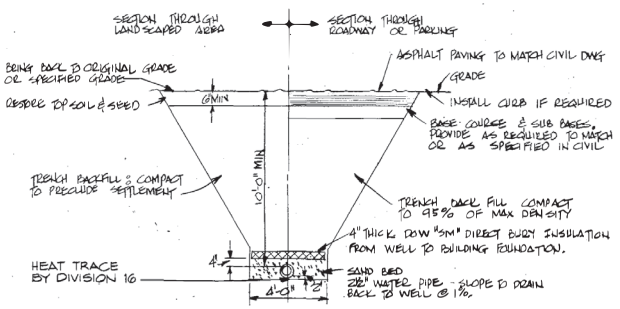


SITE PLAN

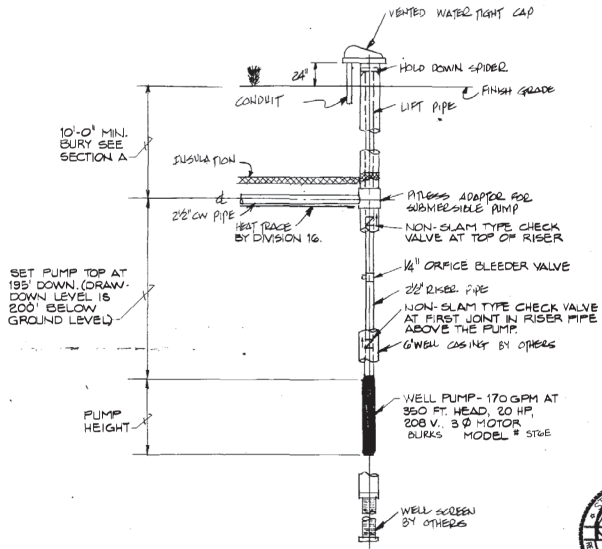
SCOPE OF THE WORK:

A water well will be furnished by the Owner at or near the location as indicated on the contract drawings. A well casing six inches in diameter will be provided. The well screen will be in place and a temporary well cap will be installed. The well will be disinfected, developed, tested and ready for the installation of a pitless adaptor, permanent well cap and permanent well pump.

NOTE: DELAY REMOVED FROM CONTROL BOX DUE TO HIGH HEAD PRESSURE.



WATER LINE SECTION A
NOT TO SCALE



WELL PUMP B
NOT TO SCALE

AS-BUILT 9-14-92

ARCHITECTS BISSETT/SIMASKO
634 S. BAILEY SUITE 207 PALMER, ALASKA 99645 (907) 745-5555

project title
KNIK ELEMENTARY SCHOOL
MATANUSKA-SUSITNA BOROUGH
Palmer, Alaska

project no. 9009

date 3-15-91
drawn by ELM
checked by RB
revisions

sheet contents
SITE PLAN
DETAILS

sheet no. M-2

3.4-151 0173

RE ED
PW ..DING
CONSTRUCTION
JUL 8 '90
By: NT
Routed to:
DAVE
COPY - S075.02-05

WELL LOG

Wheaton Water Wells, Inc.

Box 871218 - Wasilla, Alaska 99687 - 376-2041

OWNER Matanuska-Susitna Borough

ADDRESS 350 E. Dahlia Ave. Palmer, AK 99645

WELL – SITE Knik Elementary School

LOT

BLOCK

DATE Date started 6/21/90
Date completed 6/22/90

DEPTH OF WELL 240'

STATIC LEVEL 171'

GALS. PER MIN. 300

SCREENED 15' (100 slot) 225-240

PERFORATED NO

SIZE OF CASING 6"

KIND OF FORMATION:

Development Time Started: 2:00 PM 6/22/90
Development Time Stopped 2:00 PM 6/23/90

FROM	0	to	4	Topsoil/Overburden			
FROM	4	to	190	Hardpan/Gray			
FROM	190	to	240	Sand/Gravel/ Water			
FROM		to			FROM	to	
FROM		to			FROM	to	
FROM		to			FROM	to	
FROM		to			FROM	to	

DRILLER John Lichenor

MAT-SU TEST LAB, INC.

Soils – Concrete – Water – Asphalt
Field and Laboratory Testing Services

P.O. Box 871868 • Wasilla, Alaska 99687 • (907) 376-3005

ACCOUNTS PAYABLE
RECEIVED
JUL 06 1990

RECEIVED
PW - BUILDING
CONSTRUCTION
JUL 6 '90
By: NT
Routed to:
DAVE

COPY – S075.02-05

DRINKING WATER ANALYSIS FOR TOTAL COLIFORM BACTERIA

APPLICANT INFORMATION:

Name: MAT-SU BOROUGH
Mailing Address: 350 EAST DAHLIA
PALMER, ALASKA 99645
Phone: 745-9809
State I. D. No.:

Sample Information:

Legal Description: KNIK ELEMENTARY SCHOOL DOMESTIC WELL
Date Collected: 7-1-90 Time Collected: 3 05 PM Collected By: JOHN TICHENOR
Sample Type: ☒ Routine ☐ Check Sample ☐ Treated ☐ Untreated ☐ Fecal

THIS SECTION TO BE COMPLETED BY LAB

ANALYSIS RESULTS

☒ Satisfactory
☐ Unsatisfactory
☐ Sample Rejected: ☐ Over 30 Hours In Transit ☐ TNTC: Colonies Too Numerous To Count ☐ Confluent Growth RECOMMEND RESAMPLE

Final Membrane Filter Results: 0 Colonies/100ml
No. of Positive Tubes from five 10 ml Portions; NA ; MPN: ____ per 100 ml
Date Analysis Completed: 7.3.90 Reported By: BQuintrell

MICROBIOLOGY LABORATORY RECORD-COLIFORM ANALYSIS

Date Received: 7/2/90 Time Received: 8 A.m. Lab Number: 901267
Date Test Started: 7.2 Time Test Started: 1640 Analyst: BQ

TEST METHOD	TEST RESULTS						DATE/TIME/ANALYST
Membrane Filter (MF)	Direct Count: 0 Colonies/100 ml						7.3 1500 BQ
	Verification: LTB ____, BGB ____						
Presumptive (LTB)	Tube #						
	24 Hr.						
	48 Hr.						
Confirmatory (BGB)	Tube #						
	24 Hr.						
	48 Hr.						
Completed Tested	Plate #						
	EMB 24 Hr.						
	Tube #						
	LTB 48 Hr.						

Sheet _____ of _____
Date: _____

WATERWELL · TEST PUMP REPORT

Conducted by WHEATON WATER WELLS, INC.
Owner Matanuska-Susitna Borough Address 350 E. Dahlia Ave. Palmer, AK 99645
Well Location Knik Elem. School Site
Well Information: Ttl. Depth 240' Depth of Casing 225' Screen From 225 To 240
Casing Size 6" Screen Diam 5 Screen Slot 100 slot
Remarks
Pump Information: Intake Depth 214 Pump Size 30 HP Air Line Depth 209
Static Water Level 171 Av. Discharge 306 GPM, Max. Drawdown 197
Pump On: Time 4:00 PM Date 6/30/90 Pump Off: Time 3:42 PM Date 7/1/90

TIME	WATER LEVEL	PIEZO-TUBE	FLOW GPM	REMARKS	TIME	WATER LEVEL	PIEZO-TUBE	FLOW GPM	REMARKS
4:00 PM	171	30	217	Red/Gray cast					
4:05 PM	193	30	217	Adj. Gen. HZ/Volts					
4:10 PM	187	30	217	Clearing					
4:15 PM	187	31	221						
4:20 PM	188	31	221	Clear					
4:25 PM	188	31	221						
4:30 PM	188	31	221						
4:45 PM	188	31	221						
5:00 PM	197	53	286	35 AMPS./ OTV					
5:05 PM	197	58	306	Open Throttle Valve					
5:30 PM	197	58	306						
5:45 PM	197	58	306						
6 PM	197	58	306						
6 PM	197	58	306						
7:00 PM	197	58	306						
7:30 PM	197	58	306						
8:00 PM	197	58	306						
8:30 PM	197	58	306						
9:00 PM	197	58	306						
9:30 PM	197	58	306						
10:00 PM	197	58	306						
10:30 PM	197	58	306						
11:00 PM	197	58	306						
11:30 PM	197	58	306						
12:00 AM	197	58	306						
12:30 AM	197	58	306						
1:00 AM	197	58	306						
2:00 AM	197	58	306						
3:00 AM	197	58	306						
4:00 AM	197	58	306						
5:00 AM	197	58	306						
6:00 AM	197	58	306						
7:00 AM	197	58	306						
8:00 AM	197	58	306						
9:00 AM	197	58	306						
10:00 AM	197	58	306						
11:00 AM	197	58	306						
12 PM	197	58	306						
1: PM	197	58	306						
2:00 PM	197	58	306						
3:00 PM	197	58	306						
3:05 PM	197	58	306	Water samples collected	1-Bacteria	4- Class A			
3:42 PM	197	58	306	Pump Test Stopped - Recovery Test Started					
3:44 PM	197	58	306	Recovery Test Stopped					

RECEIVED
PW BUILDING CONSTRUCTION
JUL 6 '90
By: MT
Routed to:
DAVE K.
COPY = 5075.02-05

STATE OF ALASKA

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONSTRUCTION AND OPERATION CERTIFICATE

for

PUBLIC WATER SYSTEMS

A. APPROVAL TO CONSTRUCT

Plans for the construction or modification of Knik Elementary School Well Location, Class B public water system located in Knik, Alaska, submitted in accordance with 18 AAC 80.100 by Don Wycoff, Architects & Matanuska-Susitna Borough have been reviewed and are

☒ approved.

☐ conditionally approved (see attached conditions).

Paul E Pinard — BY — District Supervisor — TITLE — 4/28/87 — DATE

reissued: Paul E Pinard — BY — District Supervisor — TITLE — 05/16/90 — DATE

If construction has not started within two years of the approval date, this certificate is void and new plans and specifications must be submitted for review and approval before construction.

B. APPROVED CHANGE ORDERS

Change (contract order no. or descriptive reference)	Approved by	Date

C. APPROVAL TO OPERATE

The "APPROVAL TO OPERATE" section must be completed and signed by the Department before any water is made available to the public.

The construction of the _____ public water system was completed on _____ (date). The system is hereby granted interim approval to operate for 90 days following the completion date.

BY _____ TITLE _____ DATE _____

As-built plans submitted during the interim approval period, or an inspection by the Department, has confirmed the system was constructed according to the approved plans. The system is hereby granted final approval to operate.

BY _____ TITLE _____ DATE _____

DISTRIBUTION: 1. WHITE - ENGINEER (Completed Section C)
2. YELLOW - WATER SYSTEM (Completed Section C)
3. PINK - ENGINEER/MUNI-BOROUGH (Complete Section C)

STATE OF ALASKA

STEVE COWPER, GOVERNOR

DEPT. OF ENVIRONMENTAL CONSERVATION

P.O. Box 871064
Wasilla, Alaska
99687-9998
(907) 376-5032

RECEIVED
PW - BUILDING CONSTRUCTION
MAY 18 '90
By: NT
Routed to:
DAVE
ORIG. - DEC Book
COPY - 5075.02-93

May 16, 1990

Mr. David W. Carroll
Project Manager
Public Works Department
Matanuska-Susitna Borough
P.O. Box 1608
Palmer, Alaska 99645

RE: Knik Elementary School; Class B Public Water Supply Well; Plan Review

Dear Mr. Carroll:

This is in response to your letter of May 14, 1990, which requested reissuance of a Construction Certificate for the referenced, proposed well, since the previously issued Certificate expired on April 23, 1989. Based on the information provided with your letter, advising me that no changes have been made to the plans and that there is no contamination sources within the proposed well's 100 ft. protective radius, I am able to honor your request. A revised Certificate, constituting this new approval is enclosed.

Thank you for your coordination with this office. If you have any questions, please do not hesitate to contact me.

Sincerely,

Paul E. Pinard, P.E.
District Supervisor

PEP:jlf

1 Enclosure: As Stated

STATE OF ALASKA
DEPT. OF ENVIRONMENTAL CONSERVATION

WALTER [redacted] GOVERNOR

P.O. Box 871064
Wasilla, Alaska
99687-9998
(907) 376-5038

November 12, 1992

RECEIVED
NOV 16 1992
PUBLIC WORKS
DAVE

Mr. Raj Bhargava, P.E.
Raj Bhargava Associates
301 East Fireweed Lane
Anchorage, Alaska 99503

RE: Goose Bay (formerly Knik) Elementary School; Class A Public Water Supply System; Review

Dear Mr. Bhargava:

This is in response to your submittal, received in this office on November 3, 1992, notifying the Department that the pressure range for the public drinking water system serving the referenced facility has been changed to a range of 30 to 70 psi. This adequately addresses the pump cycling concern raised in the Department's letter of October 29, 1992. Therefore, the public water supply system serving the Goose Bay Elementary School is granted final operational approval for concerns of this Department. The approval is constituted by the enclosed certificate.

Ms Susan Bulkow, of this office, will assign a public water system identification number for this water system in a separate letter to the owner.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Paul E. Pinard, P.E.
District Supervisor

By: Ralph Kiehl
Env. Engineering Assistant

PEP:RK:jlf
Enclosure: As stated
cc: Bonnie Allen, Architects Bissett/Simasko w/encl
Roy Carlson, MSB w/encl
Dave Carroll, MSB w/encl

STATE OF ALASKA

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONSTRUCTION AND OPERATION CERTIFICATE
for
PUBLIC WATER SYSTEMS

A. APPROVAL TO CONSTRUCT

Plans for the construction or modification of Knik Elementary School Well Location, Class B public water system located in Knik, Alaska, submitted in accordance with 18 AAC 80.100 by Don Wycoff, Architects & Matanuska-Susitna Borough have been reviewed and are

☒ approved.

☐ conditionally approved (see attached conditions).

Paul E Pinard — BY; District Supervisor — TITLE; 4/28/87 — DATE

Reissued: Paul E Pinard — District Supervisor — 05/16/90

If construction has not started within two years of the approval date, this certificate is void and new plans and specifications must be submitted for review and approval before construction.

B. APPROVED CHANGE ORDERS

Change (contract order no. or descriptive reference)	Approved by	Date

C. APPROVAL TO OPERATE

The "APPROVAL TO OPERATE" section must be completed and signed by the Department before any water is made available to the public.

The construction of the Goose Bay (Formerly Knik) Elementary School public water system was completed on or about September 2, 1992 (date). The system is hereby granted interim approval to operate for ~~90~~ 60 days following the completion date. See ADEC letter of 9/4/92

Mike R for PAUL E. PINARD — BY; District Supervisor — TITLE; 9/4/92 — DATE

As-built plans submitted during the interim approval period, or an inspection by the Department, has confirmed the system was constructed according to the approved plans. The system is hereby granted final approval to operate.

BY _____ TITLE _____ DATE _____

DISTRIBUTION: 1. WHITE - ENGINEER (Complete Section C)
2. YELLOW - WATER SYSTEM FILE (Complete Section C)
3. PINK - ENGINEER/MUNI BOROUGH (Complete Section C)
4. GOLDENROD - MUNI BOROUGH (Complete Section A)

18-0407 (Rev. 7/89)

STATE OF ALASKA
DEPT. OF ENVIRONMENTAL CONSERVATION

WALTER J. HICKEL, GOVERNOR

P.O. Box 871064
Wasilla, Alaska
99687-9998
(907) 376-5038

September 4, 1992

COPY - S075.02 C3

RECEIVED
SEP 8 1992
PUBLIC WORKS
DAVE

Ms. Bonnie Allen
Architects Bissett/Simasko
Palmer Business Plaza
634 S. Bailey Suite 207
Palmer, Alaska 99645

RE: Goose Bay (formerly Knik) Elementary School; Class B Public Water Supply System; Status of Operational Approval; Review

Dear Ms. Allen:

Reference is made to the Department's letter of September 2, 1992, to the Matanuska Susitna Borough, which issued a Notice of Violation (NOV) of the State Drinking Water Regulations (18 AAC 80.300 (a)) for the installation of water system components with out prior approval from the Department. The letter also specified the minimum information needed by the Department for review of the water supply system, to issue an interim operational approval. On September 3, 1992, in response to the NOV, this office received satisfactory bacteriological test results and confirmation from a registered engineer that the system was flushed and disinfected.

As we discussed, because the water system has been constructed, the Department will need to begin review of as-built documentation for the system. You indicated that you would have the engineer submit a complete set of as-built drawings and supporting calculations and information on the installed components which show that the system meets the minimum requirements of the Drinking Water Regulations. The Department will continue review of the previously supplied information (August 27, and 31, 1992 submittals) upon submittal of the as-built documentation.

Interim Operational Approval

Based on the satisfactory bacteriological test results and the engineer's confirmation of water system flushing and disinfection, it appears that the minimum requirements for issuing a interim operational approval have been met. Therefore, the public water supply system serving the Knik Elementary School is granted interim operational approval for concerns of this Department. The enclosed certificate constitutes the interim operational approval. Please

note that the interim approval expires in 60 days on November 3, 1992.

Final operational approval can be considered upon submittal of a complete set of unqualified as-built plans, sealed by a registered engineer. The as-built plans and supporting calculations will need to show that the public water supply system meets the minimum requirements of the Drinking Water Regulations (18 AAC 80). Please note that the NOV requires that this information be submitted by no later than October 2, 1992.

Upon submittal of the as-built documentation, and supporting calculations, review can continue for the issuance of a final operational approval.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Paul E. Pinard, P.E.
District Supervisor

By: Ralph Kiehl
Env. Engineering Assistant

PEP:RK:dbc
Enclosure: As Stated
cc: Roy Carlson, MSB

Matanuska-Susitna Borough School District
School Calendar
2023 - 2024

S	M	T	W	T	F	S

JULY

						1
2	3	H	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

AUGUST

		1	2	3	4	5
6	7	8	9	WD	PL	12
13	WD	SO	16	17	18	19
20	21	PK/K	23	24	25	26
27	28	29	30	31		

SEPTEMBER

					1	2
3	H	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

OCTOBER

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	Q1	PC	PL	21
22	23	24	25	26	27	28
29	30	31				

NOVEMBER

			PL	PL	PL	4
5	6	7	8	9	V	11
12	13	14	15	16	17	18
19	20	21	22	H	H	25
26	27	28	29	30		

DECEMBER

					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	Q2	WD	23
24	H	V	V	V	V	30
31						

August

10	Work Day for Teachers (WD)*
11	Professional Learning Day (PL)*
14	Work Day for Teachers (WD)*
15	School Opens for 1-12 (SO)
22	First Day for Preschool/Kindergarten

September

4	Labor Day Holiday (H)*

October

18	Quarter 1 Ends (46 Days)
19	**Parent Conference Day (PC)***
20	Professional Learning Day (PL)*

November

1-3	Professional Learning Day (PL)*
10	**Veterans Day (V)***
23-24	Thanksgiving Holiday (H)*

December

21	Quarter 2 Ends (38 Days)
22	Work Day for Teachers (WD)*
25	Christmas Holiday (H)*
26-29	**Winter Vacation (V)***

January

1	New Years Day (H)*
2-5	**Winter Vacation (V)***
15	Martin Luther King Jr. Day (H)*

February

19	**Parent Conference Day (PC)***

March

6	Quarter 3 Ends (41 Days)
7	Work Day for Teachers (WD)*
8-18	**Spring Vacation (V)***

April

26	Professional Learning Day (PL)*

May

23	School Closes/Quarter 4 Ends (47 Days)
24	Work Day for Teachers (WD)*

*Indicates no school for students

S	M	T	W	T	F	S

JANUARY

	H	V	V	V	V	6
7	8	9	10	11	12	13
14	H	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

FEBRUARY

				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	PC	20	21	22	23	24
25	26	27	28	29		

MARCH

					1	2
3	4	5	Q3	WD	V	9
10	V	V	V	V	V	16
17	V	19	20	21	22	23
24	25	26	27	28	29	30
31						

APRIL

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	PL	27
28	29	30				

MAY

			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	SC	WD	25
26	H	28	29	30	31	

JUNE

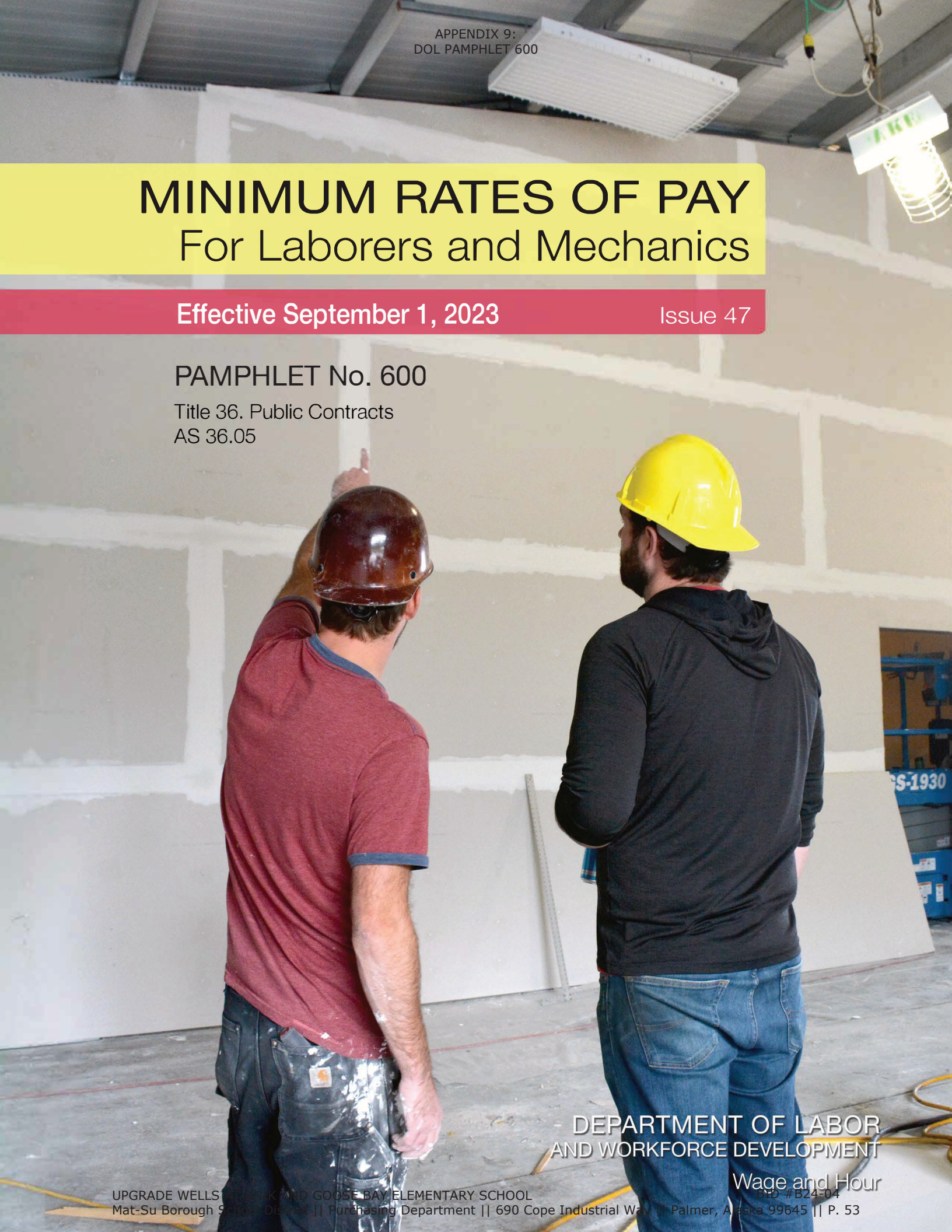
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

MINIMUM RATES OF PAY
For Laborers and Mechanics

Effective September 1, 2023 Issue 47

PAMPHLET No. 600

Title 36. Public Contracts
AS 36.05



DEPARTMENT OF LABOR
AND WORKFORCE DEVELOPMENT
Wage and Hour

- This page intentionally left blank -

THE STATE of ALASKA
GOVERNOR MIKE DUNLEAVY

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, 2023

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.

This pamphlet identifies current prevailing wage rates for public construction contracts (any construction projects awarded for the State of Alaska or its political subdivisions, such as local governments and certain non-profit organizations). Because these rates may change in a subsequent determination, please be sure you are using the appropriate rates. The rates published in this edition become effective September 1, 2023.

The prevailing wage rates contained in this pamphlet are applicable to public construction projects with a final bid date of September 11, 2023, or later. 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 go to: http://labor.state.ak.us/lss/pamp600.htm

For questions regarding prevailing wage or employment preference requirements, please contact the nearest Wage and Hour office. These offices are listed on Page x.

Sincerely,

Catherine Muñoz
Acting Commissioner

- This page intentionally left blank -

Table of Contents

Excerpts from Alaska Law

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

Excerpts from Alaska Administrative Code

8 AAC 30.051. Purpose vi
8 AAC 30.052. Board and lodging; remote sites vi
8 AAC 30.054. Per diem instead of board and lodging vi
8 AAC 30.056. Alternative arrangement vii
8 AAC 30.900. General definitions (selected excerpts) vii

Additional Information

Per Diem vii
Laborer Classification Clarification.... viii
Apprentice Rates.... viii
Fringe Benefit Plans.... viii
Special Prevailing Wage Rate Determination.... ix
Alaska Employment Preference Information.... ix
Labor Standards and Safety Notice Requests x
Debarment List x

Wage Rates .... Pages 1-26

Shipyard Rate Addendum.... Pages 27

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 current laws and regulations, please refer to the official codes.

EXCERPTS FROM ALASKA LAW

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.

EXCERPTS FROM ALASKA ADMINISTRATIVE CODE

Notice:** Regulations relating to board and lodging and per diem went into effect on November 25, 2018. The new regulations are excerpted here

8 AAC 30.051. Purpose. The purpose of 8 AAC 30.052 – 8 AAC 30.056 is to ensure that wages paid to laborers, mechanics, and field surveyors do not fall below the prevailing rate of pay.

8 AAC 30.052. Board and lodging; remote sites. (a) A contractor on a public construction project located 65 or more road miles from the international airport closest to the project area in either Fairbanks, Juneau, or Anchorage, or that is inaccessible by road in a two-wheel drive vehicle, shall provide adequate board and lodging to each laborer, mechanic, or field surveyor while the person is employed on the project. If commercial lodging facilities are not available, the contractor shall provide temporary lodging facilities. Lodging facilities must comply with all applicable state and federal laws. For a highway project, the location of the project is measured from the midpoint of the project.

(b) A contractor is not required to provide board and lodging:

(1) to a laborer, mechanic, or field surveyor who is a domiciled resident of the project area; or

(2) on a laborer, mechanic, or field surveyor's scheduled days off, when the person can reasonably travel between the project and the person's permanent residence; for the purposes of this paragraph, "scheduled day off" means a day in which a person does not perform work on-site, is not required to remain at or near the job location for the benefit of the contractor, and is informed of the day off at least seven days before the day off.

(c) Upon a contractor's written request, the commissioner may waive the requirements of (a) of this section where:

(1) the project is inaccessible by road in a two-wheel drive vehicle, but the laborer, mechanic, or field surveyor can reasonably travel between the project and the person's permanent residence within one hour; or

(2) a laborer, mechanic, or field surveyor is not a domiciled resident of the project area, but has established permanent residence, with the intent to remain indefinitely, within 65 road miles of the project, or for a highway project, the mid-point of the project.

8 AAC 30.054. Per diem instead of board and lodging. (a) A contractor may pay a laborer, mechanic, or field surveyor per diem instead of providing board and lodging, when the following conditions are met:

(1) the department determines that per diem instead of board and lodging is an established practice for the work classification; the department shall publish and periodically revise its determinations in the pamphlet *Laborers and Mechanics Minimum Rates of Pay*;

(2) the contractor pays each laborer, mechanic, or field surveyor the appropriate per diem rate as published and periodically revised in the pamphlet *Laborers and Mechanics Minimum Rates of Pay*; and

(3) the contractor pays the per diem to each laborer, mechanic, or field surveyor on the same day that wages are paid.

(b) A contractor may not pay per diem instead of board and lodging on a highway project located

(1) west of Livengood on the Elliot Highway, AK-2;

(2) on the Dalton Highway, AK-11;

(3) north of milepost 20 on the Taylor Highway, AK-5;

(4) east of Chicken on the Top of the World Highway; or

(5) south of Tetlin Junction to the Alaska-Canada border on the Alaska Highway, AK-2.

8 AAC 30.056. Alternative arrangement. Upon a contractor's written request, the commissioner may approve an alternative board and lodging or per diem arrangement, provided

(1) the arrangement does not reduce the laborer, mechanic, or field surveyor's wages below the prevailing wage rate; and

(2) the laborer, mechanic, or field surveyor voluntarily enters into and signs the written arrangement; a labor organization representing laborers, mechanics, or field surveyors may enter into the written agreement on their behalf.

8 AAC 30.900. General definitions (selected excerpts only):

In this chapter and in AS 36

(22) "domiciled resident" means a person living within 65 road miles of a public construction 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 public construction project;

(23) "employed on the project" means the time period from the date the laborer, mechanic, or field surveyor first reports on-site to the project through the final date the person reports on-site to the project.

ADDITIONAL INFORMATION

PER DIEM

Notice: New regulations relating to board and lodging and per diem went into effect on November 25, 2018. The regulations provide a comprehensive set of requirements for the provision of board and lodging or per diem for workers on remote projects. Please refer to Alaska Administrative Code 8 AAC Chapter 30 and read the chapter carefully.

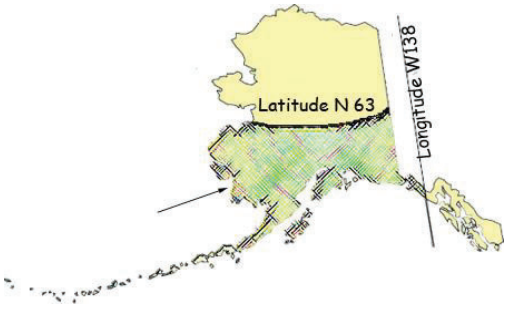
The Alaska Department of Labor and Workforce Development has determined that per diem is an established work practice for certain work classifications. These classifications are indicated throughout the Pamphlet by an asterisk (*) under the classification title. If all of the conditions of 8 AAC 30.054 are met, an employer may pay workers in these classifications per diem instead of providing board and lodging on a remote project.

Per Diem Rate: As of May 1st, 2019, the minimum per diem rate is $100.00 per day, or part thereof, the worker is employed on the project. In the event that a contractor provides lodging facilities, but no meals, the department will accept a payment of $48 per day for meals to meet the per diem requirements.

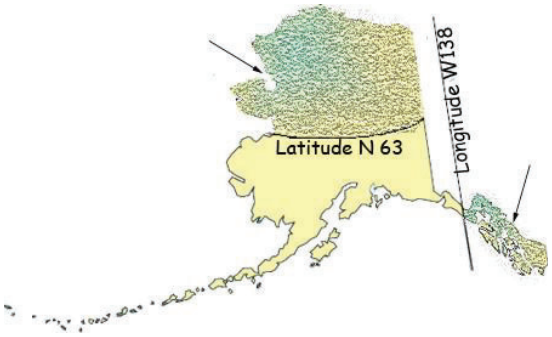
LABORER CLASSIFICATION CLARIFICATION

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:

S1201-
S1206



N1201-
N1206



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 and Safety Division
Wage and Hour
P.O. Box 111149
Juneau, AK 99811-1149
-or-
Email: statewide.wagehour@alaska.gov

EMPLOYMENT PREFERENCE INFORMATION

In October 2019, the Alaska Attorney General issued a formal opinion stating that the Alaska Statutes 36.10.150 of the State's 90% Employment Preference law, also known as the Alaska Resident Hire law, violates both the U.S. and Alaska Constitutions. As a result, the state has stopped all enforcement activity.
A copy of the Attorney General opinion is found here:

http://law.alaska.gov/pdf/opinions/opinions_2019/19-005_AK-hire.pdf

Alaska Department of Labor and Workforce Development
Labor Standards and Safety Division
Wage and Hour
Web site: http://labor.state.ak.us/lss/pamp600.htm

Anchorage	Juneau	Fairbanks
1251 Muldoon Road, Suite 113 Anchorage, Alaska 99504-2098 Phone: (907) 269-4900 Email: statewide.wagehour@alaska.gov	PO Box 111149 Juneau, Alaska 99811 Phone: (907) 465-4842 Email: statewide.wagehour@alaska.gov	Regional State Office Building 675 7th Ave., Station J-1 Fairbanks, Alaska 99701-4593 Phone: (907) 451-2886 Email: statewide.wagehour@alaska.gov

LABOR STANDARDS AND SAFETY NOTICE REQUESTS

If you would like to receive Wage and Hour or Mechanical Inspection **regulation notices** or **publications information**, they are available via electronic mail, by signing up in the GovDelivery System, https://public.govdelivery.com/accounts/AKDOL/subscriber/new and selecting topics *LSS – Wage and Hour – Forms and Publications*, *LSS – Mechanical Inspection Regulations*, or *LSS – Wage and Hour Regulations*.

Publications are also available online at http://labor.alaska.gov/lss/home.htm

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

No companies are currently debarred.

Laborers' & Mechanics' Minimum Rates of Pay

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits		THR
Boilermakers	*See per diem note on last page							
						VAC	**SAF**	
A0101	Boilermaker (journeyman)	48.15	8.57	18.40	2.15	4.25	0.34	81.86
Bricklayers & Blocklayers	*See per diem note on last page							
						L&M		
A0201	Blocklayer	42.01	9.00	10.20	0.62	0.20		62.03
	Bricklayer Marble or Stone Mason Refractory Worker (Firebrick, Plastic, Castable, and Gunite Refractory Applications) Terrazzo Worker Tile Setter							
						L&M		
A0202	Tuck Pointer Caulker	42.01	9.00	10.20	0.62	0.20		62.03
	Cleaner (PCC)							
						L&M		
A0203	Marble & Tile Finisher	35.84	9.00	10.20	0.62	0.20		55.86
	Terrazzo Finisher							
						L&M		
A0204	Torginal Applicator	35.84	9.00	10.20	0.62	0.20		55.86
Carpenters, Region I (North of 63 latitude)	*See per diem note on last page							
						L&M	**SAF**	
N0301	Carpenter (journeyman)	44.39	10.35	15.82	1.75	0.20	0.20	72.71
	Lather/Drywall/Acoustical							
Carpenters, Region II (South of N63 latitude)	*See per diem note on last page							
						L&M	**SAF**	
S0301	Carpenter (journeyman)	44.39	10.35	16.36	1.75	0.20	0.20	73.25
	Lather/Drywall/Acoustical							
Cement Masons	*See per diem note on last page							

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
Cement Masons	*See per diem note on last page						
						L&M	
A0401	Group I, including:	44.43	8.80	11.80	1.53	0.10	66.66
	Application of Sealing Compound						
	Application of Underlayment						
	Building, General						
	Cement Finisher						
	Cement Mason (journeyman)						
	Concrete						
	Concrete Paving						
	Concrete Polishing						
	Concrete Repair						
	Curb & Gutter, Sidewalk						
	Curing of All Concrete						
	General Concrete Pour Tender						
	Grouting & Caulking of Tilt-Up Panels						
	Grouting of All Plates						
	Patching Concrete						
	Screed Pin Setter						
	Screeder or Rodder						
	Spackling/Skim Coating						
						L&M	
A0402	Group II, including:	44.43	8.80	11.80	1.53	0.10	66.66
	Form Setter						
						L&M	
A0403	Group III, including:	44.43	8.80	11.80	1.53	0.10	66.66
	Concrete Saw Cutter Operator (All Control Joints and Self-powered)						
	Curb & Gutter Machine						
	Floor Grinder						
	Pneumatic Power Tools						
	Power Chipping & Bushing						
	Sand Blasting Architectural Finish						
	Screed & Rodding Machine Operator						
	Troweling Machine Operator (all concrete surfaces)						
						L&M	
A0404	Group IV, including:	44.43	8.80	11.80	1.53	0.10	66.66
	Acoustical or Imitation Acoustical Finish						
	Application of All Composition Mastic						
	Application of All Epoxy Material						
	Application of All Plastic Material						
	Finish Colored Concrete						
	Gunite Nozzleman						
	Hand Powered Grinder						

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
Cement Masons	*See per diem note on last page						
						L&M	
A0404	Group IV, including:	44.43	8.80	11.80	1.53	0.10	66.66
	Preparing, scratching and browsing of all ceilings and walls, finished with terrazo or tile						
	Tunnel Worker						
						L&M	
A0405	Group V, including:	44.43	8.80	11.80	1.53	0.10	66.66
	Casting and finishing						
	EIFS Systems						
	Finishing of all interior and exterior plastering						
	Fireproofing (Pryocrete, Cafco, Albi-Clad, sprayed fiberglass)						
	Gypsum, Portland Cement						
	Kindred material and products						
	Operation and control of all types of plastering machines, including power tools and floats, used by the industry						
	Overcoating and maintenance of interior/exterior plaster surfaces						
	Plasterer						
	Veneer plastering process (Rapid Plaster, U.S.G. "Imperial Systems", and Pabcoat Systems")						
	Venetian plaster and color-integrated Italian/Middle-Eastern line plaster						
Culinary Workers							
						LEG	
A0501	Baker/Cook	29.95	7.53	8.83			46.31
						LEG	
A0503	General Helper	25.92	7.53	8.83			42.28
	Housekeeper						
	Janitor						
	Kitchen Helper						
						LEG	
A0504	Head Cook	29.95	7.53	8.83			46.31
						LEG	
A0505	Head Housekeeper	26.20	7.53	8.83			42.56
	Head Kitchen Help						
Dredgemen	*See per diem note on last page						
						L&M	
A0601	Assistant Engineer	46.91	11.40	14.75	1.00	0.10	0.05 74.21
	Craneman						

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
Dredgemen	*See per diem note on last page							
A0601	Assistant Engineer	46.91	11.40	14.75	1.00	**L&M** 0.10	0.05	74.21
	Electrical Generator Operator (primary pump/power barge/dredge) Engineer Welder							
A0602	Assistant Mate (deckhand)	45.65	11.40	14.75	1.00	**L&M** 0.10	0.05	72.95
A0603	Fireman	46.13	11.40	14.75	1.00	**L&M** 0.10	0.05	73.43
A0605	Leverman Clamshell	49.64	11.40	14.75	1.00	**L&M** 0.10	0.05	76.94
A0606	Leverman Hydraulic	47.74	11.40	14.75	1.00	**L&M** 0.10	0.05	75.04
A0607	Mate & Boatman	46.91	11.40	14.75	1.00	**L&M** 0.10	0.05	74.21
A0608	Oiler (dredge)	46.13	11.40	14.75	1.00	**L&M** 0.10	0.05	73.43
Electricians	*See per diem note on last page							
A0701	Inside Cable Splicer	46.44	14.40	14.22	0.95	**L&M** 0.25	**LEG** 0.15	76.41
A0702	Inside Journeyman Wireman, including:	46.44	14.40	14.22	0.95	**L&M** 0.25	**LEG** 0.15	76.41
	Technicians (including use of drones in electrical construction)							
A0703	Power Cable Splicer	65.19	14.40	19.15	0.95	**L&M** 0.25	**LEG** 0.15	100.09
A0704	Tele Com Cable Splicer	52.53	14.40	17.98	0.95	**L&M** 0.25	**LEG** 0.15	86.26
A0705	Power Journeyman Lineman, including:	63.44	14.40	19.09	0.95	**L&M** 0.25	**LEG** 0.15	98.28
	Power Equipment Operator Technician (including use of drones in electrical construction)							
A0706	Tele Com Journeyman Lineman, including:	50.78	14.40	17.92	0.95	**L&M** 0.25	**LEG** 0.15	84.45
	Technician (including use of drones in telecommunications construction) Tele Com Equipment Operator							

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
Electricians *See per diem note on last page								
A0707	Straight Line Installer - Repairman	50.78	14.40	17.92	0.95	**L&M** 0.25	**LEG** 0.15	84.45
A0708	Powderman	61.44	14.40	19.03	0.95	**L&M** 0.25	**LEG** 0.15	96.22
A0710	Material Handler	28.07	14.02	5.84	0.15	**L&M** 0.15	**LEG** 0.15	48.38
A0712	Tree Trimmer Groundman	31.78	14.40	14.30	0.15	**L&M** 0.15	**LEG** 0.15	60.93
A0713	Journeyman Tree Trimmer	40.71	14.40	14.57	0.15	**L&M** 0.15	**LEG** 0.15	70.13
A0714	Vegetation Control Sprayer	44.26	14.40	14.68	0.15	**L&M** 0.15	**LEG** 0.15	73.79
A0715	Inside Journeyman Communications CO/PBX	46.44	14.40	14.22	0.95	**L&M** 0.25	**LEG** 0.15	76.41
Elevator Workers *See per diem note on last page								
A0802	Elevator Constructor	46.08	16.07	20.56	0.70	**L&M** 1.00	**VAC** 5.11	89.52
A0803	Elevator Constructor Mechanic	65.83	16.07	20.56	0.70	**L&M** 1.00	**VAC** 7.30	111.46
Heat & Frost Insulators/Asbestos Workers *See per diem note on last page								
A0902	Asbestos Abatement-Mechanical Systems	41.35	9.24	11.12	1.50	**IAF** 0.14	**LML** 0.05	63.40
A0903	Asbestos Abatement/General Demolition All Systems	41.35	9.24	11.12	1.50	**IAF** 0.14	**LML** 0.05	63.40
A0904	Insulator, Group II	41.35	9.24	11.12	1.50	**IAF** 0.14	**LML** 0.05	63.40
A0905	Fire Stop	41.35	9.24	11.12	1.50	**IAF** 0.14	**LML** 0.05	63.40
IronWorkers *See per diem note on last page								
A1101	Ironworkers, including:	42.99	10.16	26.45	0.77	**L&M** 0.20	**IAF** 0.24	80.81

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
IronWorkers *See per diem note on last page								
						L&M	**IAF**	
A1101	Ironworkers, including:	42.99	10.16	26.45	0.77	0.20	0.24	80.81
	Bender Operators Bridge & Structural Hangar Doors Hollow Metal Doors Industrial Doors Machinery Mover Ornamental Reinforcing Rigger Sheeter Signalman Stage Rigger Toxic Haz-Mat Work Welder							
						L&M	**IAF**	
A1102	Helicopter	43.99	10.16	26.45	0.77	0.20	0.24	81.81
	Helicopter (used for rigging and setting) Tower (energy producing windmill type towers to include nacelle and blades)							
						L&M	**IAF**	
A1103	Fence/Barrier Installer	39.49	10.16	26.45	0.77	0.20	0.24	77.31
						L&M	**IAF**	
A1104	Guard Rail Layout Man	40.23	10.16	26.45	0.77	0.20	0.24	78.05
						L&M	**IAF**	
A1105	Guard Rail Installer	40.49	10.16	26.45	0.77	0.20	0.24	78.31
Laborers (The Alaska areas north of N63 latitude and east of W138 longitude) *See per diem note on last page								
						L&M	**LEG**	
N1201	Group I, including:	36.00	9.55	21.16	1.65	0.30	0.20	68.86
	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, curing, grouting, screeding) Crusher Plant Laborer Demolition Laborer							

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	L&M	LEG	THR
Laborers (The Alaska areas north of N63 latitude and east of W138 longitude) *See per diem note on last page									
N1201	Group I, including:	36.00	9.55	21.16	1.65		0.30	0.20	68.86

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	
N1202	Group II, including:	37.00	9.55	21.16	1.65		0.30	0.20	69.86

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

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
						L&M	LEG	
Laborers (The Alaska areas north of N63 latitude and east of W138 longitude) *See per diem note on last page								
N1202	Group II, including:	37.00	9.55	21.16	1.65	0.30	0.20	69.86
	Environmental Laborer (asbestos, marine work)							
	Floor Preparation, Core Drilling							
	Foam Gun or Foam Machine Operator							
	Green Cutter (dam work)							
	Gunite Operator							
	Hod Carrier							
	Jackhammer/Chipping Gun or Pavement Breaker							
	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	
N1203	Group III, including:	37.90	9.55	21.16	1.65	0.30	0.20	70.76
	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	
N1204	Group IIIA	41.78	9.55	21.16	1.65	0.30	0.20	74.64
	Asphalt Raker, Asphalt Belly Dump Lay Down							
	Drill Doctor (in the field)							

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
						L&M	LEG	
Laborers (The Alaska areas north of N63 latitude and east of W138 longitude) *See per diem note on last page								
N1204	Group IIIA	41.78	9.55	21.16	1.65	0.30	0.20	74.64
	Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills) Pioneer Drilling & Drilling Off Tugger (all type drills) Pipelayers Powderman (Employee Possessor) Storm Water Pollution Protection Plan Specialist (SWPPP Specialist) Traffic Control Supervisor, DOT Qualified							
						L&M	LEG	
N1205	Group IV	25.57	9.55	21.16	1.65	0.30	0.20	58.43
	Final Building Cleanup Permanent Yard Worker							
						L&M	LEG	
N1206	Group IIIB	47.36	5.50	21.16	1.65	0.30	0.20	76.17
	Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours) Federal Powderman (Responsible Person in Charge) Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones) Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours) Stake Hopper							
Laborers (The area that is south of N63 latitude and west of W138 longitude) *See per diem note on last page								
						L&M	LEG	
S1201	Group I, including:	36.00	9.55	21.16	1.65	0.30	0.20	68.86
	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, curing, grouting, 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

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
	Laborers (The area that is south of N63 latitude and west of W138 longitude) *See per diem note on last page						
						L&M	**LEG**
S1201	Group I, including:	36.00	9.55	21.16	1.65	0.30	0.20	68.86
	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**
S1202	Group II, including:	37.00	9.55	21.16	1.65	0.30	0.20	69.86
	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)						
	Floor Preparation, Core Drilling						
	Foam Gun or Foam Machine Operator						
	Green Cutter (dam work)						
	Gunite Operator						
	Hod Carrier						

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
						L&M	LEG	
Laborers (The area that is south of N63 latitude and west of W138 longitude) *See per diem note on last page								
S1202	Group II, including:	37.00	9.55	21.16	1.65	0.30	0.20	69.86
	Jackhammer/Chipping Gun or Pavement Breaker 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	
S1203	Group III, including:	37.90	9.55	21.16	1.65	0.30	0.20	70.76
	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	
S1204	Group IIIA	41.78	9.55	21.16	1.65	0.30	0.20	74.64
	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) Pioneer Drilling & Drilling Off Tugger (all type drills) Pipelayers Powderman (Employee Possessor) 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

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits		THR
Laborers (The area that is south of N63 latitude and west of W138 longitude) *See per diem note on last page								
						L&M	**LEG**	
S1204	Group IIIA	41.78	9.55	21.16	1.65	0.30	0.20	74.64
	Traffic Control Supervisor, DOT Qualified							
						L&M	**LEG**	
S1205	Group IV	25.57	9.55	21.16	1.65	0.30	0.20	58.43
	Final Building Cleanup Permanent Yard Worker							
						L&M	**LEG**	
S1206	Group IIIB	47.36	5.50	21.16	1.65	0.30	0.20	76.17
	Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours) Federal Powderman (Responsible Person in Charge) Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones) Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours) Stake Hopper							
Millwrights *See per diem note on last page								
						L&M		
A1251	Millwright (journeyman)	51.38	10.35	12.87	1.10	0.40	0.05	76.15
						L&M		
A1252	Millwright Welder	52.38	10.35	12.87	1.10	0.40	0.05	77.15
Painters, Region I (North of N63 latitude) *See per diem note on last page								
						L&M		
N1301	Group I, including:	37.83	9.77	15.10	1.08	0.07		63.85
	Brush General Painter Hand Taping Hazardous Material Handler Lead-Based Paint Abatement Roll							
						L&M		
N1302	Group II, including:	38.35	9.77	15.10	1.08	0.07		64.37
	Bridge Painter Epoxy Applicator General Drywall Finisher Hand/Spray Texturing Industrial Coatings 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

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
Painters, Region I (North of N63 latitude) *See per diem note on last page							
						L&M	
N1302	Group II, including:	38.35	9.77	15.10	1.08	0.07	64.37
	Machine/Automatic Taping Pot Tender Sandblasting Specialty Painter Spray Structural Steel Painter Wallpaper/Vinyl Hanger						
N1304	Group IV, including:	42.24	9.77	18.21	1.05	0.05	71.32
	Glazier Storefront/Automatic Door Mechanic						
N1305	Group V, including:	39.86	9.77	5.00	1.10	0.10	55.83
	Carpet Installer Floor Coverer Heat Weld/Cove Base Linoleum/Soft Tile Installer						
N1306	Group VI, including:	70.00	10.79	5.00	1.10	0.10	86.99
	Traffic Control Striper						
Painters, Region II (South of N63 latitude) *See per diem note on last page							
						L&M	
S1301	Group I, including :	34.47	9.77	16.45	1.08	0.07	61.84
	Brush General Painter Hand Taping Hazardous Material Handler Lead-Based Paint Abatement Roll Spray						
						L&M	
S1302	Group II, including :	35.72	9.77	16.45	1.08	0.07	63.09
	General Drywall Finisher Hand/Spray Texturing Machine/Automatic Taping Wallpaper/Vinyl Hanger						

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
Painters, Region II (South of N63 latitude) *See per diem note on last page							
						L&M	
S1303	Group III, including :	35.72	9.77	16.45	1.08	0.07	63.09
	Bridge Painter Epoxy Applicator Industrial Coatings Specialist Pot Tender Sandblasting Specialty Painter Structural Steel Painter						
						L&M	
S1304	Group IV, including:	42.45	9.77	17.25	1.08	0.07	70.62
	Glazier Storefront/Automatic Door Mechanic						
						L&M	
S1305	Group V, including:	39.86	9.77	5.00	1.10	0.10	55.83
	Carpet Installer Floor Coverer Heat Weld/Cove Base Linoleum/Soft Tile Installer						
S1306	Group VI, including:	70.00	10.79	5.00	1.10	0.10	86.99
	Traffic Control Striper						
Piledrivers *See per diem note on last page							
						L&M	**IAF**
A1401	Piledriver	44.39	10.35	15.82	1.75	0.20	0.20	72.71
	Assistant Dive Tender Carpenter/Piledriver Rigger Sheet Stabber Skiff Operator						
						L&M	**IAF**
A1402	Piledriver-Welder/Toxic Worker	45.39	10.35	15.82	1.75	0.20	0.20	73.71
						L&M	**IAF**
A1403	Remotely Operated Vehicle Pilot/Technician	48.70	10.35	15.82	1.75	0.20	0.20	77.02
	Single Atmosphere Suit, Bell or Submersible Pilot						
						L&M	**IAF**
A1404	Diver (working) **See note on last page	88.50	10.35	15.82	1.75	0.20	0.20	116.82

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
Piledrivers								
	*See per diem note on last page							
						L&M	**IAF**	
A1405	Diver (standby) **See note on last page	48.70	10.35	15.82	1.75	0.20	0.20	77.02
						L&M	**IAF**	
A1406	Dive Tender **See note on last page	47.70	10.35	15.82	1.75	0.20	0.20	76.02
						L&M	**IAF**	
A1407	Welder (American Welding Society, Certified Welding Inspector)	49.95	10.35	15.82	1.75	0.20	0.20	78.27
Plumbers, Region I (North of N63 latitude)								
	*See per diem note on last page							
						L&M	**S&L**	
N1501	Journeyman Pipefitter	46.86	12.00	18.20	1.75	1.20		80.01
	Plumber							
	Welder							
Plumbers, Region II (South of N63 latitude)								
	*See per diem note on last page							
						L&M		
S1501	Journeyman Pipefitter	41.00	12.38	15.27	1.55	0.20		70.40
	Plumber							
	Welder							
Plumbers, Region IIA (1st Judicial District)								
	*See per diem note on last page							
						L&M		
X1501	Journeyman Pipefitter	43.50	14.17	11.75	2.95	0.24		72.61
	Plumber							
	Welder							
Power Equipment Operators								
	*See per diem note on last page							
						L&M		
A1601	Group I, including:	47.74	11.40	14.75	1.00	0.10	0.05	75.04
	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							

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	L&M	THR
Power Equipment Operators *See per diem note on last page								
A1601	Group I, including:	47.74	11.40	14.75	1.00	0.10	0.05	75.04

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)
Drag Scraper, Yarder, and similar types
Drilling Machines, Core, Cable, Rotary and Exploration
Finishing Machine Operator, Concrete Paving, Laser Screed, Sidewalk, Curb & Gutter Machine
Grade Checker and/or Line and Grade including Drone
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)
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
Off-Road Hauler (including Articulating and Haul Trucks)
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)

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
Power Equipment Operators *See per diem note on last page								
						L&M		
A1601	Group I, including:	47.74	11.40	14.75	1.00	0.10	0.05	75.04
	Service Oiler/Service Engineer Shot Blast Machine Shovels, Backhoes, Excavators with all attachments, and Gradealls (3 yards & under) Sideboom (under 45 tons) Sub Grader (Gurries & similar types) Tack Tractor Truck Mounted Concrete Pump, Conveyor/Tele-belt, & Creter Wate Kote Machine							
						L&M		
A1602	Group IA, including:	49.64	11.40	14.75	1.00	0.10	0.05	76.94
	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 (finish: when finishing to final grade and/or to hubs, or for asphalt) Power Plants (1000 k.w. & over) Profiler, Reclaimer, and Roto-Mill 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 Topside (Asphalt Paver, Slurry machine, Spreaders, and similar types)							
						L&M		
A1603	Group II, including:	46.91	11.40	14.75	1.00	0.10	0.05	74.21
	Boiler - Fireman Cement Hogs & Concrete Pump Operator Conveyors (except those listed in Group I) Hoists on Steel Erection, Towermobiles & Air Tuggers Horizontal/Directional Drill Locator Locomotives, Rod & Geared Engines Mixers Screening, Washing Plant							

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
Power Equipment Operators *See per diem note on last page								
						L&M		
A1603	Group II, including:	46.91	11.40	14.75	1.00	0.10	0.05	74.21
	Sideboom (cradling rock drill, regardless of size) Skidder Trenching Machines (under 16 inches) Water/Waste Water Treatment Operator							
						L&M		
A1604	Group III, including:	46.13	11.40	14.75	1.00	0.10	0.05	73.43
	"A" Frame Trucks, Deck Winches Bombardier (tack or tow rig) Boring Machine Brooms, Power (sweeper, elevator, vacuum, or similar) Bump Cutter 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-l/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		
A1605	Group IV, including:	39.42	11.40	14.75	1.00	0.10	0.05	66.72
	Crane Assistant Engineer/Rig Oiler Drill Helper Parts & Equipment Coordinator							

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
Power Equipment Operators *See per diem note on last page								
						L&M		
A1605	Group IV, including:	39.42	11.40	14.75	1.00	0.10	0.05	66.72
	Spotter							
	Steam Cleaner							
	Swamper (on trenching machines or shovel type equipment)							
Roofers *See per diem note on last page								
						L&M		
A1701	Roofer & Waterproofer	47.62	13.75	3.91	0.81	0.10	0.06	66.25
						L&M		
A1702	Roofer Material Handler	34.23	13.75	3.91	0.81	0.10	0.06	52.86
Sheet Metal Workers, Region I (North of N63 latitude) *See per diem note on last page								
						L&M		
N1801	Sheet Metal Journeyman	51.93	12.55	15.86	1.80	0.12		82.26
	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							
	HVAC-R Service Mechanic, servicing and maintaining HVAC-R Systems							
	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) *See per diem note on last page								

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
Sheet Metal Workers, Region II (South of N63 latitude) *See per diem note on last page							
						L&M	
S1801	Sheet Metal Journeyman	47.05	12.55	14.90	2.01	0.43	76.94
	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 HVAC-R Service Mechanic, servicing and maintaining HVAC-R Systems 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						
Sprinkler Fitters *See per diem note on last page							
						L&M	
A1901	Sprinkler Fitter	54.01	11.45	18.25	0.52	0.25	84.48
Surveyors *See per diem note on last page							
						L&M	
A2001	Chief of Parties	54.50	12.48	13.64	1.20	0.10	81.92
						L&M	
A2002	Party Chief	50.69	12.48	13.64	1.20	0.10	78.11
						L&M	
A2003	Line & Grade Technician/Office Technician/GPS, Drones	47.94	12.48	13.64	1.20	0.10	75.36
						L&M	
A2004	Associate Party Chief (including Instrument Person & Head Chain Person)/Stake Hop/Grademan	45.69	12.48	13.64	1.20	0.10	73.11

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
Surveyors	*See per diem note on last page						
						L&M	
A2006	Chain Person (for crews with more than 2 people)	41.09	12.48	13.64	1.20	0.10	68.51
Truck Drivers	*See per diem note on last page						
						L&M	
A2101	Group I, including:	46.84	12.48	13.64	1.20	0.10	74.26

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 articulating end dumps, rockbuggy, side dump, belly dump, & trucks with pups) over 40 yards up to & including 60 yards
Fueler
Helicopter Transporter
Liquid Vac Truck/Super Vac Truck
Material Coordinator or Purchasing Agent
Oil Distributor Truck
Ready-mix (over 12 yards up to & including 15 yards) (over 15 yards to be negotiated)
Semi with Double Box Mixer
Tireman, Medium Duty (Truck Tires up to 1200-24")
Water Wagon (250 Bbls and above)

						L&M	
A2102	Group 1A including:	48.19	12.48	13.64	1.20	0.10	75.61

Dump Trucks (including rockbuggy, side dump, belly dump & trucks with pups) over 60 yards up to & including 100 yards (over 100 yards to be negotiated)
Jeeps (driver under load)
Lowboys, including tractor attached trailers & jeeps, up to & including 12 axles (over 12 axles or 150 tons to be negotiated)
Tireman Heavy Duty (earthmover tires, i.e., loader, scraper, haul truck)

						L&M	
A2103	Group II, including:	45.51	12.48	13.64	1.20	0.10	72.93

All Deltas, Commanders, Rollagons, & similar equipment
Batch Trucks (8 yards & up)
Batch Trucks (up to & including 7 yards)
Boom Truck/Knuckle Truck (over 5 tons)
Cacasco Truck/Heat Stress Truck
Construction and Material Safety 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

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
Truck Drivers *See per diem note on last page							
						L&M	
A2103	Group II, including:	45.51	12.48	13.64	1.20	0.10	72.93
	Dump Trucks (including articulating end dump, rockbuggy, side dump, belly dump, & 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)						
	Mechanics						
	Partsman						
	Ready-mix (up to & including 12 yards)						
	Stringing Truck						
	Turn-O-Wagon or DW-10 (not self loading)						
						L&M	
A2104	Group III, including:	44.64	12.48	13.64	1.20	0.10	72.06
	Boom Truck/Knuckle Truck (up to & including 5 tons)						
	Dump Trucks (including articulating end dump, rockbuggy, side dump, belly dump, & 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						
	Semi or Truck & Trailer						
	Thermal Plastic Layout Technician						
	Traffic Control Technician						
	Trucks/Jeeps (push or pull)						
						L&M	
A2105	Group IV, including:	44.02	12.48	13.64	1.20	0.10	71.44
	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)						
	Cement Spreader, Dry						
	Combination Truck-Fuel & Grease						
	Compactor (when pulled by rubber tired equipment)						
	Dump Trucks (including rockbuggy, side dump, belly dump, & 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						

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
Truck Drivers	*See per diem note on last page						
						L&M	
A2105	Group IV, including:	44.02	12.48	13.64	1.20	0.10	71.44
	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)						
	Tireman, Light Duty						
	Track Truck Equipment						
	Truck Vacuum Sweeper						
	Warehouseperson						
	Water Truck (Below 250 Bbls)						
	Water Truck (straight)						
	Water Wagon, Semi						
						L&M	
A2106	Group V, including:	43.22	12.48	13.64	1.20	0.10	70.64
	Buffer Truck						
	Bull Lifts & Fork Lifts, Fork Lifts with Power Boom & Swing Attachments (up to & including 5 tons)						
	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 Seeder, Single Axle						
	Pickups (pilot cars & all light-duty vehicles)						
	Rigger						
	Swamper						
	Tack Truck (welders/gear)						
	Team Drivers (horses, mules, & similar equipment)						
Tunnel Workers, Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)	*See per diem note on last page						
						L&M	**LEG**
N2201	Group I, including:	39.60	9.55	21.16	1.65	0.30	0.20	72.46
	Brakeman						
	Mucker						

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
	Tunnel Workers, Laborers (The Alaska areas north of N63 latitude and east of W138 longitude) *See per diem note on last page							
						L&M	**LEG**	
N2201	Group I, including:	39.60	9.55	21.16	1.65	0.30	0.20	72.46
	Nipper Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer) Topman & Bull Gang Tunnel Track Laborer							
						L&M	**LEG**	
N2202	Group II, including:	40.70	9.55	21.16	1.65	0.30	0.20	73.56
	Burning & Cutting Torch Certified Erosion Sediment Control Lead (CESCL Laborer) Concrete Laborer Floor Preparation, Core Drilling Jackhammer/Chipping Gun or Pavement Breaker Laser Instrument Operator Nozzlemen, Pumpcrete or Shotcrete Pipelayer Helper							
						L&M	**LEG**	
N2203	Group III, including:	41.69	9.55	21.16	1.65	0.30	0.20	74.55
	Miner Retimberman							
						L&M	**LEG**	
N2204	Group IIIA, including:	45.96	9.55	21.16	1.65	0.30	0.20	78.82
	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) Pioneer Drilling & Drilling Off Tugger (all type drills) Pipelayer Powderman (Employee Possessor) Storm Water Pollution Protection Plan Specialist (SWPPP Specialist) Traffic Control Supervisor, DOT Qualified							
						L&M	**LEG**	
N2206	Group IIIB, including:	52.10	5.50	21.16	1.65	0.30	0.20	80.91
	Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours) Federal Powderman (Responsible Person in Charge) Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones) Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours) Stake Hopper							

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
	Tunnel Workers, Laborers (The area that is south of N63 latitude and west of W138 longitude) *See per diem note on last page							
						L&M	**LEG**	
S2201	Group I, including:	39.60	9.55	21.16	1.65	0.30	0.20	72.46
	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**	
S2202	Group II, including:	40.70	9.55	21.16	1.65	0.30	0.20	73.56
	Burning & Cutting Torch Certified Erosion Sediment Control Lead (CESCL Laborer) Concrete Laborer Floor Preparation, Core Drilling Jackhammer/Chipping Gun or Pavement Breaker Laser Instrument Operator Nozzlemen, Pumpcrete or Shotcrete Pipelayer Helper							
						L&M	**LEG**	
S2203	Group III, including:	41.69	9.55	21.16	1.65	0.30	0.20	74.55
	Miner Retimberman							
						L&M	**LEG**	
S2204	Group IIIA, including:	45.96	9.55	21.16	1.65	0.30	0.20	78.82
	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) Pioneer Drilling & Drilling Off Tugger (all type drills) Pipelayer Powderman (Employee Possessor) Storm Water Pollution Protection Plan Specialist (SWPPP Specialist) Traffic Control Supervisor, DOT Qualified							
						L&M	**LEG**	
S2206	Group IIIB, including:	52.10	5.50	21.16	1.65	0.30	0.20	80.91
	Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours) Federal Powderman (Responsible Person in Charge) Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones) Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours)							

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
Tunnel Workers, Laborers (The area that is south of N63 latitude and west of W138 longitude) *See per diem note on last page								
						L&M	**LEG**	
S2206	Group IIIB, including:	52.10	5.50	21.16	1.65	0.30	0.20	80.91
	Stake Hopper							
Tunnel Workers, Power Equipment Operators *See per diem note on last page								
						L&M		
A2207	Group I	52.51	11.40	14.75	1.00	0.10	0.05	79.81
						L&M		
A2208	Group IA	54.60	11.40	14.75	1.00	0.10	0.05	81.90
						L&M		
A2209	Group II	51.60	11.40	14.75	1.00	0.10	0.05	78.90
						L&M		
A2210	Group III	50.74	11.40	14.75	1.00	0.10	0.05	78.04
						L&M		
A2211	Group IV	43.36	11.40	14.75	1.00	0.10	0.05	70.66

*** Per diem is an established practice for this classification. This means that per diem is an allowable alternative to board and lodging if all criteria are met. See 8 AAC 30.051-08 AAC 30.056, and the per diem information on page vii of this Pamphlet.**

**** 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

Shipyard Rates Addendum

This Addendum was developed to address the specialized industry of shipbuilding/repair in Alaska, as it relates to public works. For the purposes of providing rates for shipyard work the Department is adopting Shipyard rates from the state of Washington (King County). These rates only apply to work done in shipbuilding/repair in Alaska, under a public contract. This addendum will be updated two times a year to coincide with the corresponding Issue of *Laborers and Mechanics MINIMUM RATES OF PAY.*

Class Code		BHR	H&W	PEN	TRN	Other Benefits	THR
Shipyard Workers *See total hourly(THR) note below							
A2300	Ship Building/Repair Boilermaker						50.35
A2305	Ship Building/Repair Carpenter						50.95
A2310	Ship Building/Repair Crane Operator						45.06
A2315	Ship Building/Repair Electrician						50.42
A2320	Ship Building/Repair Heat & Frost Insulator						84.84
A2325	Ship Building/Repair Laborer						50.95
A2330	Ship Building/Repair Mechanist						50.95
A2335	Ship Building/Repair Operating Engineer						45.06
A2340	Ship Building/Repair Painter						50.95
A2345	Ship Building/Repair Pipefitter						50.95
A2350	Ship Building/Repair Rigger						50.35
A2355	Ship Building/Repair Sheet Metal						50.35
A2360	Ship Building/Repair Shipwright						50.95
A2365	Ship Building/Repair Warehouse						45.06

***The THR includes the base hourly rate (BHR) and fringe benefits. Employers must pay a BHR and fringe benefit package that adds up to the THR. Fringe benefits included in the THR can be paid to employees in three ways; paid into a union trust fund, into an approved benefit plan, or paid directly on the paycheck as gross wage**s.

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