CITY OF HOMER
INVITATION TO BID / BID DOCUMENTS

Homer Harbor Facilities Improvements 2014

PREPARED BY:
CITY OF HOMER – PUBLIC WORKS DEPARTMENT
3575 HEATH STREET
HOMER ALASKA 99603
907-235-3170

NOV 15 2013

INVITATION TO BID
By the City of Homer, Alaska, for the
Homer Harbor Facilities Improvements - 2014

Sealed bids for the construction of the **Homer Harbor Facilities Improvements - 2014** will be received at the Office of the City Clerk, City Hall, City of Homer, 491 East Pioneer Avenue, Homer, Alaska, until **2:00 p.m. Friday, December 20, 2013**, at which time they will be publicly opened and read. The time of receipt will be determined by the City Clerk's time stamp. Bids received after the time fixed for the receipt of the bids shall not be considered. **All bidders must submit a City of Homer Plan Holders Registration form to be on the Plan Holders List and to be considered responsive.** Plan holder registration forms, and Plans and Specifications are available on line at http://www.cityofhomer-ak.gov/rfps

The project is funded 50% by the State Municipal Harbors Grant Program and 50% by local funds. The City's local bidder's 5% preference requirements do not apply; State prevailing wage rates will apply. The work includes, but is not limited to the following:

The project consists of removal and reconstruction of the Ramp 3 approach and gangway. The removal and replacement of "A" Float from "E" to "K" Float and the removal and replacement of "J", "R", and "S" Floats. In conjunction with the float renovations there will be electrical and plumbing upgrades.

Please direct all technical questions regarding this project to: Dan Nelsen, City of Homer, Public Works Department, 3575 Heath Street, Homer, Alaska, 99603, (907) 435-3141.

A mandatory pre-bid conference will be held on Wednesday, December 4th at 2:00 p.m. at the Harbormaster's Office, 4350 Homer Spit Road, Homer, Alaska, to answer any questions bidders may have.

Plan holder registration forms, and Plans and Specifications are available online at http://www.cityofhomer-ak.gov/rfps **All bidders must submit a City of Homer Plan Holders Registration form to be on the Plan Holders List and to be considered responsive.** Hard copies can be obtained at the Office of the City Clerk upon payment of $250 per set ($280 for overnight delivery). City of Homer Standard Construction Specifications 2011 Edition (containing general contract provisions) may be downloaded from the City's website. All fees are non-refundable. The City of Homer reserves the right to accept or reject any or all bids, to waive irregularities or informalities in the bids, and to award the contract to the lowest responsive bidder.

Dated this 15th day of November, 2013.

CITY OF HOMER

Walt Wrede, City Manager

Homer News – November 21 and 27, 2013
Peninsula Clarion – November 24, 2013

Fiscal Note: 415-920 (GLA#1&3)

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Homer Harbor Facilities Improvements 2014

Homer Harbor Facilities Improvements 2014

The City of Homer, Alaska is requesting bid proposals from qualified firms and individuals for the project described herein.

I. Scope of Services

The proposed work is located within the Homer city limits and is illustrated on the plans entitled:

Homer Harbor Facilities Improvements 2014

The project consists of furnishing all labor, materials, equipment, tools, supervision and other facilities necessary for the performance of the work described herein and shown on the project drawings. The work includes but is not limited to the following:

The project consists of removal and reconstruction of the Ramp 3 approach and gangway. The removal and replacement of "A" float from "E" to "K" float and the removal and replacement of "J", "R", and "S" Floats. In conjunction with the float renovations there will be electrical and plumbing upgrades.

II. General Bidding Requirements

The work must be performed by a Contractor skilled and regularly engaged in the general class or type of work called for under the Contract. The bidder must have a current contractor's license issued by the State of Alaska. The license must apply to the work described in the Invitation to Bid.

The City of Homer Standard Construction Specifications, 2011 Edition, shall supplement the project plans. A copy of the Homer Standard Construction Specifications (S.C.S.) may be obtained at the Office of the City Clerk, 491 E. Pioneer Ave., Homer, Alaska 99603. The cost for S.C.S. is per set is $50.00. Persons requesting the sets by mail must include an additional $25.00 for shipping.

This project is covered by the State of Alaska, Laborer's and Mechanic's Minimum Rates of Pay, Title 36 Public Contracts, (AS 36.05 & 36.10) **Pamphlet 600 Issue 27**, **Effective September 1, 2013**. It is the responsibility of the bidder to determine the current rates of pay required and to submit the proper certified payrolls to the State Department of Labor.

Performance and Payment bonds in the amount of One Hundred Percent 100% of the bid amount are required.

Bids must be submitted on the Bid Form and be received until **2:00 PM, Friday December 20th, 2013**, at the Public Works Department, 3575 Heath St., Homer, AK 99603. A bid bond is required. Cashier checks in an amount equal to five percent (5%) of the bid are acceptable. Surety bonds are acceptable.

The City of Homer has a two-part bid process, Part A and Part B. Each portion of the bid must be submitted in separate envelopes. At the bid opening, Part B is opened first and must be complete and regular or Part A will not be opened and the bid will be rejected.

Part A of the bid contains the Bid Form, the Bid Bond and the Power of Attorney (if needed). Part A must be submitted separately in an envelope marked Part A.

Part B of the bid contains the 1) Addenda Acknowledgment, 2) EEO-1 Certification, 3) Equal Employment Opportunity Clause. Part B must be submitted separately in an envelope marked Part B.

III. Instruction to Bidders

The City of Homer reserves the right to accept or reject any or all proposals, to waive irregularities or informalities in the proposals, and to award the contract to the bidder that best meets the criteria stated below.

A. Qualification of Bidders

It is the intention of the City of Homer to award this contract to the lowest responsible, responsive Bidder who furnishes satisfactory evidence they have the requisite experience, ability and sufficient capital, facilities and plant to prosecute the work successfully (and properly) and to complete it within the time allowed in the Contract at the least cost to the City of Homer for dollars spent for value received.

If the signature on the Bid is by an agent, other than an Officer of a corporation of a member of a Co-partnership, a Power of Attorney must either be on file with the City Clerk prior to the Bid opening or submitted with the Bid in Part B.

B. Taxes

Attention is directed to the requirements of the General Conditions regarding the payment of taxes. All taxes that are lawfully assessed against Owner or Contractor in connection with the work shall be paid by the Contractor. The Bid prices shall include all such taxes.

The City of Homer is exempt from local sales taxes. The Contractor shall not include sales tax markup in his bid. However, in order to recoup sales tax the Contractor might pay at local vendors, the Contractor must secure a Tax Exempt card from the Kenai Peninsula Borough Tax Department.

C. Familiarization With The Work

Before submitting a Bid, each prospective Bidder shall familiarize themselves with the work, labor conditions and all laws, regulations and other factors affecting performance of the work. The Contractor shall carefully correlate his observations with the requirements of the Contract Documents and otherwise satisfy himself of the expense and difficulties attending performance of the work. The submission of a Bid shall constitute an acknowledgement that the Bidder has thoroughly examined and is familiar with the Contract Documents and the provisions thereof. The failure or neglect of a Bidder to receive or examine any of the Bid Documents shall in no way relieve the bidder from any obligations with the respect to their Bid or to the Contract. Misinterpretation or a reputed lack of knowledge concerning the Bid will not serve as a basis for a claim for additional compensation.

1. Site Conditions

Each Bidder shall visit the site of the Work and completely inform himself relative to construction hazards and procedures, the availability of lands, the character and quantity of surface and subsurface materials and utilities to be encountered, the arrangement and conditions of existing structures and facilities, the procedure necessary for maintenance of uninterrupted operations of existing facilities, the character of construction equipment and facilities needed for performance of the work, and facilities for transportation, handling and storage of materials and equipment. All such factors shall be properly investigated and considered in the preparation of the Bid.

D. Interpretation of Bid Documents

All questions about the meaning or intent of the Contract Documents shall be submitted, in writing, to the Office of the Director of Public Works, 3575 Heath St. Homer Alaska, 99603. Replies will be issued by Addenda mailed or delivered to all parties recorded by the City Clerk's Office as having received the Bidding documents. The City of Homer will not be held responsible for questions received less than (7) days prior to the date of opening of Bids. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect. No questions will be answered the day of the bid due date.

The Bid shall contain an acknowledgement of receipt of all Addenda, the numbers of which shall be filled in on the Addendum Form, properly signed by the Bidder and placed in envelope B.

It shall be the Bidder's responsibility to inquire as to addenda issued. Failure to include the Addenda Form in envelope B shall result in the Bid being rejected as non-responsive.

E. Bid Bond Guarantee

Each Bid shall be accompanied by a Bid Bond duly completed on the suggested form provided by a guaranty company authorized to carry on business in the State of Alaska, along with a General Power of Attorney form, if applicable, for payment to the City in the sum of five percent (5%) of the total amount of the Bid. Failure to include the Bid Bond in envelope A of the Bid shall result in the Bid being rejected as non-responsive.

The amount payable to the City under the Bid Bond or the certified or cashier's check, as the case may be, shall be forfeited to the City in case of a failure or neglect of the Bidder to furnish, execute, and deliver to the City required Performance and Payment Bonds, Evidences of Insurance, necessary forms or material required by the Bid or failure to enter into, execute and deliver to the City the Contract on the form provided therefore, within ten (10) working days after receipt of "Notice of Intent to Award Contract" by the City that the Contract is ready for execution. The "Award of Contract" will be made upon the execution of the Contract by the Bidder and the City.

F. Return of Bid Guarantee

Within thirty (30) days after the Bids are opened, the City will return the Bid Guarantees accompanying the Bids, which are not to be considered in making the award. The bid Guarantees of the three (3) lowest responsive Bids will be held until the Contract has been fully executed after which time the Guarantees will be returned to the respective Bidders whose Bids the Guarantees accompanied.

G. Contract Time

The Contract Time is an essential part of the Contract and it will be necessary for each Bidder to satisfy the City of his ability to complete the work within the time set forth in the Bid form. Provisions for delays, liquidated damages, and extensions of time are set forth in the Standard Construction Specifications. Time is of the essence in this contract.

H. Bids

1. Preparation of Bids

Bids must be submitted on the forms provided by the city and completed in all respects as required by the Bid Documents. Bids shall include all information requested herein, and be manually signed by the Bidder or the Bidder's duly authorized representative, with the Bidder's address and phone number. If the signature is by an agent, other than an Officer of a Corporation, or a member of a Co-partnership, a Power of Attorney must be on file with the City Clerk prior to opening the Bid or submitted in envelope B of the Bid; otherwise, the Bid will be disregarded as irregular and unauthorized, and will be rejected as non-responsive. All Bids must be regular in every respect, and no alterations shall be made to the Bid form.

If erasures or changes appear on the forms, each must be initialed by the person signing the Bid. No oral, telegraphic or telephone proposals will be considered.

Bids will be received at the City Clerk's Office located at 491 East Pioneer Avenue, Homer, Alaska 99603, until the time indicated on the Invitation to Bid. Each Bid shall be submitted enclosed in a sealed, opaque envelope. The Bidder shall see that the Bid title and date of Bid opening is on the lower left-hand corner of the envelope. The City is not responsible for the premature opening of, or failure to open, a bid not properly addressed and identified. Promised overnight delivery from the Post office or private carriers usually is an inaccurate statement for Alaska and Homer Area.

No consideration will be given by the city to a claim of error unless such claim is made to the city in writing within two (2) hours after the time of Bid opening. Written verification and supporting evidence of the error shall be delivered to the City Clerk within 24 hours of the Bid Opening (not including Saturday, Sunday or legal holidays) to allow consideration of the claim for error. Supporting evidence shall be original documents, including cost breakdown sheets, supplier quotes and other documents used to compute the Bid.

It is the bidder's responsibility to see that Bids are deposited at the time and place set forth for the public opening of Bids. Bids not received by the time will not be accepted and will be returned to the Bidder in the sealed bid envelope.

I. Local Bidders Preference

The City of Homer Local Bidder Preference **Does Not** apply to this contract.

IV. BID SCHEDULE
Part A

City of Homer
Homer Harbor Facilities Improvements 2014
Ramp 3 Approach Replacement
Bid Schedule

BASE BID

Item No.	Pay Item Description (In words)	Pay Unit	Units	Unit Price	Extended Price
1	Mobilization/Demobilization _____Per Lump Sum	LS	All Req'd		
2	Wildlife Observer _____Per Lump Sum	LS	All Req'd		
3	Remove & Salvage/Dispose Existing Trestle and Gangway _____Per Lump Sum	LS	All Req'd		
4	Furnish & Install New Timber Approach Trestle _____Per Lump Sum	LS	All Req'd		
5	Furnish & Install Trestle Backwall Abutment, Complete. _____Per Lump Sum	LS	All Req'd		
6	18" dia. Galvanized Trestle Pile, Furnished _____Per Lineal Foot	LF	154		
7	18" dia. Pile, Driven _____Per Each	EA	4		
8	24" dia. Galvanized Trestle Pile, Furnished _____Per Lineal Foot	LF	104		
9	24" dia. Pile, Driven _____Per Each	EA	2		
10	200# Anode, Furnished & Installed _____Per Each	EA	2		
11	Furnish & Install New 6x100 Roofed & Sided Aluminum Gangway _____Per Lump Sum	LS	1		
12	Gangway Electrical and Lighting System _____Per Lump Sum	LS	All Req'd		

City of Homer
Homer Harbor Facilities Improvements 2014
Small Boat Harbor Float Improvements
Bid Schedule

BASE BID

Item No.	Pay Item Description	Pay Unit	Units	Unit Price	Extended Price
1505.1	Mobilization _____Per Lump Sum	LS	All Req'd		
2060.1	Demolition and Disposal _____Per Lump Sum	LS	All Req'd		
2601.1	Domestic Water System _____Per Lump Sum	LS	All Req'd		
2702.1	Construction Survey Measurement _____Per Lump Sum	LS	All Req'd		
2893.1	Pavilion _____Per Lump Sum	LS	All Req'd		
2894.1	Gangway Storage Shed _____Per Lump Sum	LS	All Req'd		
2895.1	Gangway Landing Float, 20'x40' _____Per Lump Sum	LS	All Req'd		
2895.2	Headwalk Float A, 10'x810' _____Per Lump Sum	LS	All Req'd		
2895.3	Mainwalk Float J, 10'x300' _____Per Lump Sum	LS	All Req'd		
2895.4	Mainwalk Float R, 10'x290' _____Per Lump Sum	LS	All Req'd		
2895.5	Mainwalk Float S, 10'x290' _____Per Lump Sum	LS	All Req'd		
2895.6	Finger Float, 6'x32' _____Per Each	EA	3		

City of Homer
Homer Harbor Facilities Improvements 2014
Small Boat Harbor Float Improvements
Bid Schedule

BASE BID

Item No.	Pay Item Description	Pay Unit	Units	Unit Price	Extended Price
2895.7	Finger Float, 4'x32' _____Per Each	EA	21		
2895.8	Finger Float, 6'x24' _____Per Each	EA	3		
2895.9	Finger Float, 3'x24' _____Per Each	EA	27		
2895.10	Finger Float, 5'x20' _____Per Each	EA	3		
2895.11	Finger Float, 3'x20' _____Per Each	EA	27		
2896.1	Furnish and Install Steel Pipe Pile, 16"dia x 0.500"t _____Per Each	EA	6		
2896.2	Furnish and Install Steel Pipe Pile, 12 3/4"dia x 0.500"t _____Per Each	EA	60		
2897.1	Supply Full Size Supplemental Floatation Tub _____Per Each	EA	200		
2897.2	Install Full Size Supplemental Floatation Tub _____Per Each	EA	200		
2897.3	Supply Half Size Supplmental Floatation Tub _____Per Each	EA	200		
2897.4	Install Half Size Supplemental Floatation Tub _____Per Each	EA	200		
2898.1	Supply and Install Float Transition Assemblies _____Per Each	EA	2		
16000.1	Electrical System _____Per Lump Sum	LS	All Req'd		

City of Homer
Homer Harbor Facilities Improvements 2014
Small Boat Harbor Float Improvements
Bid Schedule

ADDITIVE ALTERNATIVE 1

Item No.	Pay Item Description	Pay Unit	Units	Unit Price	Extended Price
2895.AA1	Party Float _____Per Lump Sum	LS	All Req'd		
2894.AA1	Party Float Storage Shed _____Per Lump Sum	LS	All Req'd		
16000.AA1	Party Float Storage Shed Electrical _____Per Lump Sum	LS	All Req'd		

ADDITIVE ALTERNATIVE 2

Item No.	Pay Item Description	Pay Unit	Units	Unit Price	Extended Price
2601.AA2	Domestic Water System - R & S Mainwalks _____Per Lump Sum	LS	All Req'd		

ADDITIVE ALTERNATIVE 3

Item No.	Pay Item Description	Pay Unit	Units	Unit Price	Extended Price
2601.AA3	Domestic Water System - System 2 Extension _____Per Lump Sum	LS	All Req'd		

ADDITIVE ALTERNATIVE 4

Item No.	Pay Item Description	Pay Unit	Units	Unit Price	Extended Price
2601.AA4	Domestic Water System - System 2 Mainwalks T, U, V and W _____Per Lump Sum	LS	All Req'd		

ADDITIVE ALTERNATIVE 5

Item No.	Pay Item Description	Pay Unit	Units	Unit Price	Extended Price
2611.AA5	Dry Fire Line System - E Float to S Float	LS	All Req'd		
	_____Per Lump Sum				

ADDITIVE ALTERNATIVE 6

Item No.	Pay Item Description	Pay Unit	Units	Unit Price	Extended Price
2611.AA6	Dry Fire Line System - E Float to B Float	LS	All Req'd		
	_____Per Lump Sum				

Bid Schedule (BS)

City of Homer

BID SCHEDULE - SUMMARY

Homer Harbor Facilities Improvements 2014

Ramp 3 Replacement (BS-1) $_____
In Numbers
$_____
In Words

Float Replacement (BS-2,3) $_____
In Numbers

$_____
In Words

Additive Alternatives 1 to 6 (BS-4) $_____
In Numbers

$_____
In Words

Total Project Cost: **$_____**
In Numbers

$_____
In Words

Name of Firm: _____
Typed or Printed Name

Address of Firm: _____

_____

_____

Authorized Signature: _____

Typed or Printed
Name of Signatory: _____

Title of Signatory: _____

Date of Bid: _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that _____

_____

Hereinafter called the PRINCIPAL, and _____

a Corporation duly organized under the laws of the State of Alaska having its principal place of business at _____
In the State of Alaska, and authorized to do business in the State of Alaska, as SURETY, are held and firmly bound unto the City of Homer hereinafter called the OBLIGEE, in the penal

sum of _____ DOLLARS ($_____) for payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS BOND IS SUCH THAT:

WHEREAS, the PRINCIPAL has herewith submitted his or its BID for _____

_____ said Bid, by reference thereto, being hereby made a part hereof.

NOW, THEREFORE, if the Bid submitted by the PRINCIPAL is accepted and the Contract awarded to the PRINCIPAL, and if the PRINCIPAL shall execute the proposed Contract and shall furnish such Performance and Payment Bond as required by the Contract Documents within the time fixed by the documents, then this obligation shall be void: if the PRINCIPAL shall fail to execute the proposed Contract and furnish the Bond, the SURETY hereby agrees to pay the OBLIGEE the penal sum as liquidated damages:

Signed and sealed this _____Day of _____, 2013.

PRINCIPAL:

BY:

SURETY:

ATTORNEY-IN-FACT:

Part B

ADDENDA ACKNOWLEDGMENT

Project Name: **Homer Harbor Facilities Improvements 2014**

I hereby acknowledge addenda numbers:

_____

_____

_____

_____

_____

_____

Name of Firm: _____

Signature of Bidder: _____

Date: _____

This Acknowledgement must be included with Part B of the Bid or the Bid will be considered non-responsive.

City of Homer

Equal Employment Opportunity (EEO – 1) CERTIFICATION

The following Certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7 (b) (1)) and must be submitted by BIDDERS and proposed SUBCONTRACTORS in connections with contracts and subcontracts which are subject to the Equal Opportunity Clause. Contracts and subcontracts which are exempt from the Equal Opportunity Clause are set forth in 41 CFR 60-1.5 (generally only contracts or subcontracts of $10,000 or under are exempt.) Proposed PRIME CONTRACTORS and SUBCONTRACTORS who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports, should note the 41 CFR 60-1.7 (b) (1) prevents the award of contracts and subcontracts unless such contractor submits a report covering the delinquent period or such other period as specified by the Federal Highway Administration; by the Director, Office of Federal Contract Compliance Programs, U.S. Department of Labor; or by the Equal Employment Opportunity Commission.

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations. The Employer Information Report EEO-1 (Standard Form 100) is not a voluntary survey. The filing of the report is in accordance with Standard Form 100 instructions and is required by Federal law. The applicable law is Section 709©, Title VII, Civil rights Act of 1964 and regulations issued by the Equal Opportunity Commission under that law are reprinted in Appendix (6). Under Section 710(b) of Title VII, the Commission may obtain an order from a United States District Court compelling a covered employer to file this report. Under Section 209 (a) of Executive Order 11246, the penalties for failure by a Federal contractor or subcontractor to comply may include termination of the Federal government contract and debarment from future Federal contracts.

It is the employer's responsibility to keep current on all EEO-1 filing requirements. All inquiries and requests for special procedures should be directed to: Office of Federal Contract Compliance Programs, Department of Labor, Federal Building/U.S. Court House, 701 C Street, Box 55, Anchorage, AK 99513. Blank reporting forms may be obtained from: The Joint Reporting committee, P.O. Box 2236, Norfolk, Virginia 23501 (804) 625-3734.

(CHECK APPLICABLE BLOCK) The BIDDER _____ or proposed SUBCONTRACTOR _____ hereby certifies:

1. Their firm has participated in a previous contract or subcontractor subject to the Equal Opportunity Clause as required by Federal Executive Order 11246, Section 201 (301 F.R. 12319) YES NO

   A. Their firm has filed all reports due under the applicable filing requirement with the Joint Reporting Committee Opportunity Commission as stated in this certifications. YES NO

2. Their firm has participated in a previous City of Homer construction contract or subcontract. YES NO

   A. Their firm has filed all the EEO reports due under applicable filing requirements of the city of Homer Department of Public Works. YES NO

_____ _____
Signature of Authorized Representative of Company Date

_____ _____
Name of Company Phone Number

_____ _____
Address of Company Zip Code

PROJECT NAME - **Homer Harbor Facilities Improvements 2014**

This certificate (2 pages) needs to be included with the Bid Documents Part B or the Bid will be considered non-responsive.

EQUAL EMPLOYMENT OPPORTUNITY CLAUSE

During the performance of this contract, the contractor agrees to comply with OFCC Regulations 40 CFR 60.1.4 (1) through (7) as follows:

1. The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. 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 contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

2. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.

3. The contractor will send to each labor union or representative of workers with whom he has a collective bargaining agreement or other contract or understanding, a notice to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under Section 202 of Executive Order 11246 of September 24, 1965 and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

4. The contractor will comply with all provisions of executive order 11246 of September 24, 1965 and of the rules, regulations, and relevant orders of the Secretary of Labor.

5. The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965 and by the rules, regulations, and orders of the secretary of labor, or pursuant thereto, and will permit access of his books, records, and accounts by the contracting agency and the secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

6. In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any such rules, regulations or orders, this contract may be canceled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further government contracts in accordance with procedures authorized in executive order 11246 of September 24, 1965 and such other sanctions may be imposed and remedies invoked as provided in executive order 11246 of September 24, 1965 or by rule, regulation or order of the Secretary of Labor as otherwise provided by law.

7. The contractor will include the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965 so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the contracting agency may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however that in the event the contractor

becomes involved in, or is threatened wit, litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the contractor may request the United States to enter into such litigation to protect the interest of the United States.

(Signature)	(Title)

(Date)

This form (2 pages) must be included with the Bid, Part B, or the Bid will be considered non-responsive.

V. Contract Documents

C O N T R A C T

This Contract, made and entered into by and between the City of Homer, Alaska, a Municipal Corporation, hereinafter called the "City" and

Hereinafter called the "Contractor";

WITNESSETH:

The Contractor, in consideration of the sum to be paid him by the City and of the covenants and agreements herein contained, hereby agrees at his own cost and expense to do all the work and furnish all the materials, tools, labor and all appliances, machinery and appurtenances for City to the extent of the Bid made by the contractor, dated the _____ day of _____, 2013, all in full compliance with the Contract documents referred to herein as:

Homer Harbor Facilities Improvements 2014

a) Invitation to Bid
b) The signed copy of the Bid
c) The Bid Bond
d) The 2011 City of Homer Standard Construction Specifications
e) All Addenda, totaling ___
f) The drawings which consist of 73 sheets entitled;

Ramp 3 Approach Replacement (14 Sheets)

Homer Small Boat Harbor Float Improvements November, 2013 (59 Sheets)

Are hereby referred to and reference made a part of the Contract as fully and completely as if the same were fully set forth herein.

In consideration of the performance of the work as set forth in these Contract Documents, the city agrees to pay to the contractor the amounts specified bid in the Bid and to make such payments upon the Contractor's invoicing as approved by the City Engineer.

C O N T R A C T

CONTRACT COMPLETION TIME

The Contractor agrees to complete the project, in all respects no later than **May 15th, 2015**

CONTRACT AMOUNT _____

In Numbers

_____

In Words

LIQUIDATED DAMAGES:

Liquidated damages in the amount of $250.00 per day will apply to the Contractor's unexcused delay in the Completion of Construction. The liquidated damage amount specified herein shall only apply to damages and expenses the Owner may incur as a result of a delay in placing the facility into use and operation exclusive of third party damages or claims. The liquidated damage amount shall not cover any damages or expenses the Owner may incur as a result of the Contractor's unexcused delay in completing any portion of the entire Project, which delay results in whole or in part in delay, disruption, hindrance, interference, damages or expenses to any third party. The Contractor shall remain liable for the full amount of any such delay damages or expenses suffered by any third party without limitation by any liquidated damage provision set forth in the Contract.

IN WITNESS WHEREOF, we, the parties hereto, each herewith subscribe the same this _ day of _____ _____, 2014.

CITY OF HOMER

By: _____

Title: Walt Wrede, Homer City Manager

CONTRACTOR

_____

(Contractor)

By:

Title:

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: That we _____
(Name of Contractor)

_____ a _____
(Corporation, Partnership, Individual)

hereinafter called "Principal" and _____
(Surety)

of _____, State of _____

hereinafter called the "Surety" are held and firmly bound unto the City of Homer, hereinafter called "Owner," in the penal sum of _____ dollars ($_____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION are such that Whereas, the Principal has or is about to enter into a certain contract with the Owner, a copy of which is hereto attached and made a part hereof for the construction of:

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the Owner, with or without notice to the Surety, and if it shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the Owner from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the Owner all outlay and expense which the Owner may incur in making food any default, then this obligations shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or the work to be performed thereunder or the specifications accompanying the same shall in any wise affect it obligation on this bond, and it does hereby waive notice of any such change, extension f time, alteration or addition to the terms of the contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the Owner and the Principal shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in five (5) counterparts, each one of which shall be deemed and original, this the _____ day of _____, 2014.

ATTEST:

(Principal's Corporate Secretary)

(Principal)

Affix CORPORATE SEAL if applicable

(Address-Zip Code)

(Witness as to Principal)

(Address – Zip Code)

(Surety)

ATTEST:

By:
(Attorney-in-Fact)

(Surety) Secretary

(Address-Zip Code)

(Affix SURETY'S SEAL)

(Witness as to Surety)

(Address-Zip Code)

Notes:

If Principal is Partnership, all partners must execute bond. The Attorney-in-Fact, who executes this bond on behalf of the surety, must attach a copy of his Power-of-Attorney as evidence of his authority.

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: That we _____
(Name of Contractor)

_____ a _____
(Corporation, Partnership, Individual)

hereinafter called "Principal" and _____
(Surety)

of _____, State of _____

hereinafter called the "Surety" are held and firmly bound unto the City of Homer,

hereinafter called "Owner," in the penal sum of _____

dollars ($_____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATIONS are such that Whereas, the Principal has or is about to enter into a certain contract with the Owner, a copy of which is hereto attached and made a part hereof for the construction of:

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, subcontractors and corporations furnishing material for, or performing labor in the prosecution of the work provided for in such contract, and any authorized extension or modification thereof, including all amounts due for material, lubricants, fuels, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such work, and all insurance premiums on said work, and for all labor performed in such work, whether by subcontractor or otherwise, then this obligation shall be void: otherwise to remain in full for and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or the work to be performed thereunder or the specifications accompanying the same shall in any wise affect it obligation on this bond, and it does hereby waive notice of any such change, extension f time, alteration or addition to the terms of the contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the Owner and the Principal shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in five (5) counterparts, each one of which shall be deemed and original, this the _____ day of _____, 2014.

ATTEST:

(Principal's Corporate Secretary)

(Principal)

Affix CORPORATE SEAL if applicable

(Address-Zip Code)

(Witness as to Principal)

(Address-Zip Code)

(Surety)

ATTEST:

By:
(Attorney-in-Fact)

(Surety) Secretary

(Address-Zip Code)

(Affix SURETY'S SEAL)

(Witness as to Surety)

(Address-Zip Code)

Notes:

If Principal is Partnership, all partners must execute bond. The Attorney-in-Fact, who executes this bond on behalf of the Surety, must attach a copy of his Power-of-Attorney as evidence of his authority.

VI. Project Schedule

Homer Harbor Facilities Improvements 2014

No Later Than

Mandatory Pre-Bid……..…2:00 PM, Wednesday December 4th 2013

Bids Due…..……..…….…….....….**.....**until 2:00 PM, Friday December 20th, 2013

Notice of intent to Award…….…….…..…….……..…....January 13th, 2014

Pre-Construction meeting and Notice to Proceed……...…….……...……January 24, 2014

Start Construction…..…….…….…….…..……September 1st, 2014

In Water Work Completed by…….……October 31st, 2014

Electrical Work Completed by…… **....**November 30th, 2014

Plumbing Completed by……May 15th, 2015

VII. Special Provisions

SPECIAL PROVISIONS

General Conditions of the Contract

The General Provisions of this contract shall be those of the City of Homer Standard Construction Specifications, 2011 Edition, Section 10. (These provisions are available on the City's website).

Disadvantaged Business Requirement

The Contractor shall, to the extent possible, use small, minority, women-owned or disadvantaged business concerns.

Liability Exclusion

The City of Homer and the State of Alaska is not liable for damages or claims from damages arising from any Contractor's performance or activities under the terms of this contract. The Contractor shall defend, indemnify, and hold harmless the City and the State of Alaska from all claims, actions, costs, damages, or expenses of any nature whatsoever by reason of the acts or omissions of the City or the State of Alaska in connection with the performance of this contract; except those damages which may be caused by the sole negligence of the City or the State of Alaska.

Construction Schedule

Construction will commence - September 1, 2014
All in water work must be complete by – October 31, 2014
All Electrical work must be complete by – November 30, 2014
All Plumbing work must be complete by – May 15, 2014

Contractor will be required to provide a detailed **C**ritical **P**ath **M**ethod project schedule upon award of contract and presented to the City at the Pre-Construction Conference.

Applicable Prevailing Wage Rates

Contractor is required to pay State of Alaska Department of Labor or Workforce Development Laborers' & Mechanics' Minimum Rates of Pay. Contractor is required to submit State of Alaska Department of Labor Certified Payrolls in accordance with the State Department of Labor requirements, including submittal of signed Statements of Compliance.

Questions regarding compliance with State Davis Bacon Wage requirements should be directed to:

Warren E. Petrasek
Wage and Hour Investigator
Wage and Hour Administration
Anchorage Regional Office
Telephone: 907-352-2558
Fax: 907-352-4182
Email: warren.petrasek@alaska.gov

SPECIAL PROVISIONS

Insurance Requirements

The Contractor shall provide the following types of insurance prior to starting work (see General Conditions - Article 6.18 – Insurance). All Insurance Certificates shall name "City of Homer, Alaska" and "The State of Alaska" as an additionally insured party. Contractor will also include a provision that the "Department of Transportation and Public Facilities" along with the "State of Alaska" not be liable for damages or claims from damages arising from any contractor's performance or activities in connection with work authorized by the projects Grant Agreement.

1. Worker's Compensation	Minimum Limits
Employer's Liability and Workers' Compensation as required by Alaska State Workers' Compensation Statutes.	Statutory (no less than $100K per occurrence)
U.S. Longshoremen & Harbor Workers' (USL&H).	

2. Comprehensive General Liability	Minimum Limits
Single Limit	$1,000,000
Aggregate	$2,000,000

- Bodily Injury & Property Damage Liability
- Premises Operations
- Blanket Contractual
- Broad Form Property Damage
- Personal Injury
- Independent Contractors

3. Comprehensive Automobile Liability	Minimum Limits
Bodily Injury and Property Damage, including All owned, hired and non-owned vehicles	$1,000,000

Anti-Discrimination Requirements

The Contractor shall not discriminate on the basis of race, color, national origin or sex in the performance of this contract. Failure by the contractor to carry out these requirements is a material breach of this contract which may result in the termination of this contract or other legally available remedies.

Access to Records and Project

The City and the Department of Transportation shall have full access and the right to examine, excerpt, and copy any documents generated by the Contractor that relate to this project. Additionally, the City and the Department shall have unhindered access to the project site and all work performed in connection with this project.

SPECIAL PROVISIONS

Violation and Breach of Contract

Administrative, contractual, or legal remedies in instances where the Contractor violates or breaches contract terms or either party terminates for cause or convenience are contained in the General Conditions of the City of Homer Standard Construction Specifications 2011 which provide for such procedures, sanctions and penalties as may be appropriate. See Section 5.30, 5.31., 5.32, and 5.34 of the General Conditions and liquidated damages amount in the contract.

Compliance with Equal Employment Opportunity Provisions of Executive Order 11246

Contractor shall be in compliance with Executive Order 11246 of September 24, 1965, entitled "Equal Employment Opportunity," as amended by Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR Chapter 60).

Access to Records

Contractor shall provide access by the any of their duly authorized representatives of the City of Homer or the Alaska Department of Transportation to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract for the purpose of making audit, examination, excerpts, and transcriptions. Contractor shall retain all required records for three years after final payment and all other pending matters are closed.

Compliance with State and Federal Environmental Regulations

Contractor shall be in compliance with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15).

City Provided Work/Services

The City will accomplish the following work items:

1. Provide contractor with a lay down area / Storage area for equipment and materials for this project only. This area will be determined by the City of Homer Harbor Master before the start of construction.
2. The City will provide a Quality Control / City Inspector for the duration of the project.
3. The City will provide Contractor with a detailed Inspection Record Card to be signed off by the City Inspector.

Contractor Provided Materials/Work

The Contractor is responsible for providing all materials, equipment and labor required to complete the work as specified herein, as shown on the plans and specifications, or as directed by the Engineer. Contractor is responsible for all required quality control testing and construction survey as described in the technical specifications. Contractor will submit the Testing agencies that will be contracted to perform the required project testing before any work takes place. Refer to the COH Standard Construction Specifications on proper submittal submission.

SPECIAL PROVISIONS

(Contractor will not proceed with any definable feature of work without Engineer approved submittals in hand.)

Coordination of Work with Ongoing Activities

Contractor shall coordinate with the City of Homer Harbor Master's Office to minimize conflict with adjacent property owners and pedestrian/vehicular traffic. The Contractor shall be responsible for limiting access to the actual job site, including if necessary the installation of barricades and caution tape / danger tape along the perimeter of the work area and around any material storage areas if necessary. The Contractor shall coordinate all power and or water shut downs with the City of Homer Harbor Masters Office 48 hours before the desired time and date.

Coordination with local municipalities / building inspectors will be the sole responsibility of the Contractor to facilitate during the duration of this project. Any portion of work that is installed and or covered up without inspectors sign off will not be accepted and Contractor may be asked to uncover work for inspection.

The City will conduct a mandatory weekly project coordination meeting with the Contractor during the duration of the project to be held at the Homer Harbormasters office conference room. Attendance by the Contractors Project Superintendent and Project Manager will be required for all meetings.

Project Safety Requirements

The City of Homer is requiring that the General Contractor and all Sub-Contractors provide a well-developed Activity Hazard Analysis for all definable features of work on this project a minimum of 72 hours before the work is to take place. All plans will be reviewed and approved by the City of Homer before the Contractor will be allowed to proceed with the work. The General Contractor will hold a mandatory jobsite wide safety meeting at a minimum of once a month during the course of construction. The General Contractor will be responsible for their Sub-Contractors safe work practices at all times during this project. The City of Homer will maintain and enforce the most current issue of O.S.H.A. standards. If there is a need for the Contractor to make a critical pick with any of their hoisting equipment a Critical Lift Plan must be submitted to the City of Homer a minimum of 72 hours before the scheduled work. All Critical Lift Plans will need to be approved by the City Engineer before work can commence.

All holes drilled in and or sections cut from the pressure treated bull rails will have an approved re-treatment product applied to the inside of the holes and or the cut off sections.

Any damage to the existing floats and or any other City property during the course of construction caused by the Contractor or their Sub-Contractors will be repaired / replaced by the Contractor to the acceptance of the City Engineer before final payment will be made on this Contract.

VIII. Technical Specifications

TECHNICAL SPECIFICATIONS
FOR CONSTRUCTION OF

CITY OF HOMER

SMALL BOAT HARBOR
FLOAT IMPROVEMENTS PROJECT

Prepared for:

City of Homer
491 E. Pioneer Ave.
Homer, Alaska 99603

Prepared by:

PND ENGINEERS, INC.
1506 West 36th Avenue
Anchorage, Alaska 99503
(907) 561-1011

November 2013

CITY OF HOMER
SMALL BOAT HARBOR
FLOAT IMPROVEMENTS

INDEX TO SUPPLEMENTAL TECHNICAL SPECIFICATIONS

SECTION 01010 - SUMMARY OF WORK

PART 1 – GENERAL

1.1 GENERAL

A. The WORK to be performed under this contract shall consist of furnishing all plant, tools, equipment, materials, supplies, manufactured articles, labor, transportation and services, including fuel, power, water, spill response/prevention and essential communications, and performing all WORK, or other operations required for the fulfillment of the contract in strict accordance with the Contract Documents. The WORK shall be complete, and all work, materials, and services not expressly indicated or called for in the Contract Documents which may be necessary for the complete and proper construction of the WORK in good faith shall be provided by the CONTRACTOR as though originally so indicated, at no increase in cost to the OWNER.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

A. Base Bid WORK consists of various quantities of mobilization, demolition, salvage, disposal, domestic water system, construction surveying, timber moorage float system, pavilion, storage shed, transition assemblies, steel piles, floatation billets, life ring and fire extinguisher cabinets, electrical support assemblies, electrical system, signage and all miscellaneous associated appurtenances.

B. Additive Alternate 1 WORK consists of various quantities of mobilization, timber party float, timber party float storage shed and miscellaneous associated appurtenances.

C. Additive Alternate 2 WORK consists of various quantities of mobilization, water system on new R and S Mainwalk Floats, construction surveying, and miscellaneous associated appurtenances as identified on the Plans.

D. Additive Alternate 3 WORK consists of various quantities of mobilization, extension of domestic water system to System 2, construction surveying, and miscellaneous associated appurtenances as identified on the Plans.

E. Additive Alternate 4 WORK consists of various quantities of mobilization, extension of System 2 domestic water system for Floats T, U, V and W, construction surveying, and miscellaneous associated appurtenances as identified on the Plans.

F. Additive Alternate 5 WORK consists of various quantities of mobilization, dry fire line system extending from E float to S Float, construction surveying, and miscellaneous associated appurtenances as identified on the Plans.

G. Additive Alternate 6 WORK consists of various quantities of mobilization, dry fire line system extending from E float to B float, construction surveying, and miscellaneous associated appurtenances. Details of Additive Alternate 6 shall be similar to those shown in the plans for Additive Alternate 5.

1.3 SITE OF THE WORK

A. The site of the WORK is located in Homer, Alaska at the Homer Small Boat Harbor.

1.4 BEGINNING AND COMPLETION OF THE WORK

A. Time is the essence of the contract. All WORK shall be completed in accordance with the contract and bid documents. See permit documents for additional requirements.

1.5 CONTRACT METHOD

A. The WORK hereunder will be constructed under a lump sum price contract.

1.6 CONTRACTOR USE OF PROJECT SITE

A. The CONTRACTOR's use of the Project site shall be limited to its construction operations, including on-site storage of materials. The CONTRACTOR shall coordinate with the Harbormaster for confirmation of final staging area limits.

1.8 OWNER USE OF THE PROJECT SITE

A. The OWNER may utilize all or part of the existing site during the entire period of construction for the conduct of the OWNER's normal operations. The CONTRACTOR shall cooperate and coordinate with the ENGINEER to facilitate the OWNER's operations and to minimize interference with the CONTRACTOR's operations at the same time. In any event, the OWNER shall be allowed access to the Project site during the period of construction.

1.9 PROJECT MEETINGS

A. Pre-Construction Conference

1. Prior to the commencement of WORK at the site, a Pre-Construction Conference will be held at a mutually agreed time and place which shall be attended by the CONTRACTOR's Project manager, its superintendent, and its Subcontractors as the CONTRACTOR deems appropriate. Other attendants will be:

   a. ENGINEER and the Inspector.
   b. Representatives of OWNER.
   c. Governmental representatives as appropriate.
   d. Others as requested by CONTRACTOR, OWNER, or ENGINEER.

2. Unless previously submitted to the ENGINEER, the CONTRACTOR shall bring one copy each of the following:

   a. Plan of Operation.
   b. Project Overview critical path Schedule.
   c. Procurement schedule of major equipment and materials and items requiring long lead time.
   d. Shop Drawing/Sample/Substitute or "Or Equal" submittal schedule.
   e. Name and telephone number of CONTRACTOR's Project Supervisor.

3. The purpose of the Pre-Construction Conference is to designate responsible personnel and establish a working relationship. Matters requiring coordination will be discussed and procedures for handling such matters established. The complete agenda will be furnished to the CONTRACTOR prior to the meeting date.

   The CONTRACTOR should be prepared to discuss all of the items listed below:

   a. Status of CONTRACTOR's insurance and bonds.
   b. CONTRACTOR's tentative schedules.

c. Transmittal, review, and distribution of CONTRACTOR's submittals.
d. Processing applications for payment.
e. Maintaining record documents.
f. Critical WORK sequencing.
g. Field decisions and Change Orders.
h. Use of Project site, office and storage areas, security, housekeeping, and OWNER's needs.
i. Major equipment deliveries and priorities.
j. CONTRACTOR's assignments for safety and first aid.

4. The OWNER will preside at the Pre-Construction Conference and will arrange for keeping and distributing the minutes to all persons in attendance.

5. The CONTRACTOR and its Subcontractors should plan on the conference taking no less than 2 hours. The items listed in paragraph 3 will be covered as well as reviewing the plans and specifications, in extensive detail, with the ENGINEER and the OWNER.

B. Progress Meetings

1 The CONTRACTOR shall schedule and hold regular on-site progress meetings weekly/monthly and at other times as requested by the OWNER or ENGINEER, or as required by progress of the WORK. The CONTRACTOR, ENGINEER, and all subcontractors active on the site must attend each meeting. CONTRACTOR may at its discretion request attendance by representatives of its suppliers, manufacturers, and other subcontractors.

2. The ENGINEER shall preside at the meetings and will arrange for keeping and distributing the minutes. The purpose of the meetings will be to review the progress of the WORK, maintain coordination of efforts, discuss changes in scheduling, and resolve other problems which may develop. During each meeting, the CONTRACTOR is required to present any issues which may impact its work, with a view to resolve these issues expeditiously.

1.10 DEFINITIONS APPLICABLE TO TECHNICAL SPECIFICATIONS. The following words have the meaning defined in the Technical Portions of the WORK:

Furnish - means to supply and deliver to the site, to unload and unpack ready for assembly, installation, testing, and start-up.

Indicated - is a word used to direct the CONTRACTOR to information contained on the drawings or in the Specifications. Terms such as "shown," "noted," "scheduled," and "specified" also may be used to assist in locating information but no limitation of location is implied or intended.

Install - defines operations at the site including assembly, erection, placing, anchoring, applying, shaping to dimension, finishing, curing, protecting, and cleaning, ready for the OWNER's use.

Installer - a person or firm engaged by the CONTRACTOR or its subcontract or any subcontractor for the performance of installation, erection, or application work at the site. Installers must be expert in the operations they are engaged to perform.

Provide - is defined as furnish and install, ready for the intended use.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01025 - MEASUREMENT AND PAYMENT

PART 1-GENERAL

1.1 SCOPE

A. Payment for the various items of the Bid Schedule, as further specified herein, shall include all compensation to be received by the CONTRACTOR for furnishing all tools, equipment, supplies, and manufactured articles, and for all labor, operations, and incidentals appurtenant to the items of WORK being described, as necessary to complete the various items of the WORK all in accordance with the requirements of the Contract Documents, including all appurtenances thereto, and including all costs of PERMITS not provided by the OWNER and cost of compliance with the regulations of public agencies having jurisdiction, including Safety and Health Requirements of the Occupational Safety and Health Administration of the U.S. Department of Labor (OSHA).

B. No separate payment will be made for any pay item that is not specifically set forth in the Bid Schedule, and all costs therefore shall be included in the prices named in the Bid Schedule for the various appurtenant items of WORK.

C. In addition to other incidental items of WORK listed elsewhere in the contract, the following items shall also be considered as incidental to other items of WORK under this contract:

1. Removal and replacement of survey monuments and markers disturbed during construction, whether shown on the Plans or not.
2. Re-vegetating areas disturbed during construction.
3. Siltation and pollution control.
4. Maintenance of all services through the Project area, including water, storm, garbage pickup, mail delivery, other deliveries and emergency vehicles.
5. All traffic control, including flaggers.
6. Miscellaneous connecting and attachment hardware as required to install new equipment.
7. Transport, shipping and delivery of all materials to the project site, undamaged and in new condition.
8. Trench excavation and bedding for as required for all piping, structures and vault installations.
9. Minor grading of fill materials as required to maintain positive surface drainage.
10. Pile splices required to make up the pile lengths shown in the pile schedule.
11. Coordination with the work being performed by others on the site.

1.2 MOBILIZATION (Pay Item No. 1505.1) PRICE BASED ON LUMP SUM

A. Measurement for payment for Mobilization shall be based upon the completion of the entire WORK as a Lump Sum Pay unit, complete, all in accordance with the requirements of the Contract Documents.

B. Payment for Mobilization under the Base Bid shall be made at the amount shown on the Base Bid under Pay Item No. 1505.1, which payment shall constitute full compensation for all WORK described in Section 01505 - Mobilization, as shown on the Plans and as directed by the ENGINEER.

C. Partial payments will be made as the WORK progresses as follows:

1. When 5% of the total original contract amount is earned from other pay items, 50% of the amount bid for Mobilization, or 5% of the original contract amount, whichever is lesser, will be paid.

2. When 10% of the total original contract amount is earned from other pay items, 100% of the amount bid for Mobilization, or 10% of the original contract amount, whichever is lesser, will be paid.

3. Upon completion of all WORK on the Project, payment of any amount bid for Mobilization in excess of 10% of the total original contract amount will be paid.

1.3 DEMOLITION AND DISPOSAL (Pay Item No. 2060.1) PRICE BASED ON LUMP SUM

A. Measurement for payment for Demolition and Disposal shall be based upon the completion of the entire WORK as a Lump Sum, Pay Unit, including removal of existing timber and concrete moorage floats, and all piles, float mounted utilities and other associated items complete, and in accordance with the requirements of the Contract Documents and as shown on the Plans.

B. Payment for Demolition and Disposal under the Base Bid will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2060.1, which payment will constitute full compensation for all WORK described in Section 02060 - Demolition and Disposal, as shown on the Plans and as directed by the ENGINEER.

1.4 DOMESTIC WATER SYSTEM (Pay Item Nos. 2601.1, 2601.AA2, 2601.AA3, 2601.AA4) PRICE BASED ON LUMP SUM

A. Measurement for payment for Domestic Water System shall be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, including installation of all fittings, valves, piping, pipe trenching, bedding and backfill, thrust blocks, pipe brackets, hangers, clamps, water service pedestals, connections, transitions, flanges, anchor blocks and sash weights, hoses, miscellaneous steel weldments, hardware and shapes, and other miscellaneous appurtenances, all in accordance with the requirement of the Contract Documents and as shown on the Plans.

B. Payment for Domestic Water System under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2601.1, which payment shall constitute full compensation for all WORK described in Section 02601 – Domestic Water System, as shown on the Plans and as directed by the ENGINEER.

C. Payment for Domestic Water System under Additive Alternative 2 shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2601.AA2, which payment shall constitute full compensation for all WORK described in Section 02601 – Domestic Water System, as shown on the Plans and as directed by the ENGINEER.

D. Payment for Domestic Water System under Additive Alternative 3 shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2601.AA3, which payment shall constitute full compensation for all WORK described in Section 02601 – Domestic Water System, as shown on the Plans and as directed by the ENGINEER.

E. Payment for Domestic Water System under Additive Alternative 4 shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2601.AA4, which payment shall constitute full compensation for all WORK described in Section 02601 – Domestic Water System, as shown on the Plans and as directed by the ENGINEER.

1.5 DRY FIRE LINE SYSTEM (Pay Item Nos. 2611.AA5, 2611.AA6) PRICE BASED ON LUMP SUM

A. Measurement for payment for Dry Fire Line System shall be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, including all fittings, valves, valve boxes, inlet assembly, piping, pipe trenching, bedding and backfill, thrust blocks, brackets, hangers, clamps, risers, connections, transitions, flanges, anchor blocks and sash weights, hoses, miscellaneous steel weldments, hardware, and other miscellaneous appurtenances, all in accordance with the requirement of the Contract Documents and as shown on the Plans.

B. Payment for Dry Fire Line System under Additive Alternative 5 shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2611.AA5, which payment shall constitute full compensation for all WORK described in Section 02611 - Dry Fire Line System as shown on the Plans and as directed by the ENGINEER.

C. Payment for Dry Fire Line System under Additive Alternative 6 shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2611.AA6, which payment shall constitute full compensation for all WORK described in Section 02611 - Dry Fire Line System as shown on the Plans and as directed by the ENGINEER.

1.6 CONSTRUCTION SURVEY MEASUREMENT (Pay Item Nos. 2702.1) PRICE BASED ON LUMP SUM

A. Measurement for payment for Construction Survey Measurement shall be based on the completion of the entire WORK as a Lump Sum unit, complete, all in accordance with the requirements of the Contract Documents.

B. Payment for Construction Survey Measurement will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2702.1, which payment shall constitute full compensation for all WORK described in Section 02702 - Construction Surveying, as shown on the Plans and as directed by the ENGINEER.

1.7 PAVILION (Pay Item Nos. 2893.1) PRICE BASED ON LUMP SUM

A. Measurement for payment for Pavilion shall be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, including all timber framing, roofing, structural steel connections, hardware and other miscellaneous appurtenances, all in accordance with the requirement of the Contract Documents and as shown on the Plans.

B. Payment for the Pavilion under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2893.1, which payment will constitute full payment for all WORK described in Section 02893 – Pavilion, as shown on the Plans and as directed by the ENGINEER.

1.8 [ ] STORAGE SHED (Pay Item Nos. 2894.1, 2894.AA1) PRICE BASED ON QUANTITY, EACH

A. Measurement for payment for [ ] Storage Shed shall be per each, complete, including fabrication and installation of all timber framing, sheathing, roofing, siding, doors along with all hardware and other associated appurtenances, all in accordance with the requirements of the Contract Documents and as shown on the Plans.

B. Payment for Gangway Storage Shed under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2894.1, which payment will constitute full payment for all WORK described in Section 02894 – Storage Sheds, as shown on the Plans and as directed by the ENGINEER.

C. Payment for Party Float Storage Shed under Additive Alternate 1 shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2894.AA1, which payment will constitute full payment for all WORK described in Section 02894 – Storage Sheds, as shown on the Plans and as directed by the ENGINEER.

1.9 [ ] FLOAT [ ] (Pay Item Nos. 2895.1, 2895.2, 2895.3, 2895.4, 2895.5) PRICE BASED ON LUMP SUM

A. Measurement for payment for [ ] Float [ ] shall be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete including fabrication and installation of float system including all hardware, hinge assemblies, bullrail system, framing, decking, rubstrips, floatation, structural steel elements, pile hoops, treated timbers along with all hardware and other associated appurtenances, all in accordance with the requirements of the Contract Documents and as shown on the Plans.

B. Payment for Gangway Landing Float under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2895.1, which payment will constitute full payment for all WORK described in Section 02895 – Moorage Floats, as shown on the Plans and as directed by the ENGINEER.

C. Payment for Headwalk Float A, 10’ x 810’ under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2895.2, which payment will constitute full payment for all WORK described in Section 02895 – Moorage Floats, as shown on the Plans and as directed by the ENGINEER.

D. Payment for Mainwalk Float J, 10’ x 300’, under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2895.3, which payment will constitute full payment for all WORK described in Section 02895 – Moorage Floats, as shown on the Plans and as directed by the ENGINEER.

E. Payment for Mainwalk Float R, 10’ x 290’, under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2895.4, which payment will constitute full payment for all WORK described in Section 02895 – Moorage Floats, as shown on the Plans and as directed by the ENGINEER.

F. Payment for Mainwalk Float S, 10’ x 290’, under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2895.5, which payment will constitute full payment for all WORK described in Section 02895 – Moorage Floats, as shown on the Plans and as directed by the ENGINEER.

1.10 FINGER FLOAT [ ] (Pay Item Nos. 2895.6, 2895.7, 2895.8, and 2895.9,) PRICE BASED ON QUANTITY, EACH

A. Measurement for payment for [ ] Finger Float shall be per each, complete, including fabrication and installation of all finger float units, piano hinge assemblies, rubber bushings, connection hardware, bullrail, rubstrips, cleats, corner bumpers, pile hoops, steel weldments, along with all hardware and other associated appurtenances, all in accordance with the requirements of the Contract Documents and as shown on the Plans.

B. Payment for Finger Float, 6’ x 32’ under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2895.6, which payment will constitute full payment for all WORK described in Section 02895 – Moorage Floats, as shown on the Plans and as directed by the ENGINEER.

C. Payment for Finger Float, 4’ x 32’ under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2895.7, which payment will constitute full payment for all WORK described in Section 02895 - Moorage Floats, as shown on the Plans and as directed by the ENGINEER.

D. Payment for Finger Float, 6’ x 24’ under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2895.8, which payment will constitute full payment for all WORK described in Section 02895 - Moorage Floats, as shown on the Plans and as directed by the ENGINEER.

E. Payment for Finger Float, 3’ x 24’ under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2895.9, which payment will constitute full payment for all WORK described in Section 02895 - Moorage Floats, as shown on the Plans and as directed by the ENGINEER.

F. Payment for Finger Float, 5’ x 20’ under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2895.10, which payment will constitute full payment for all WORK described in Section 02895 - Moorage Floats, as shown on the Plans and as directed by the ENGINEER.

G. Payment for Finger Float, 3’ x 20’ under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2895.11, which payment will constitute full payment for all WORK described in Section 02895 - Moorage Floats, as shown on the Plans and as directed by the ENGINEER.

1.11 PARTY FLOAT [ ] (Pay Item No. 2895.AA1) PRICE BASED ON QUANTITY, EACH

A. Measurement for payment for Party Float shall be per each, complete, including fabrication and installation of all finger float units, piano hinge assemblies, rubber bushings, connection hardware, bullrails, rubstrips, cleats, corner bumpers, pile hoops, steel weldments, along with all hardware and other associated appurtenances, all in accordance with the requirements of the Contract Documents and as shown on the Plans.

B. Payment for Party Float under Additive Alternative 1 shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2895.AA1, which payment will constitute full payment for all WORK described in Section 02895 – Moorage Floats, as shown on the Plans and as directed by the ENGINEER.

1.12 FURNISH AND INSTALL STEEL PIPE PILE, 16” dia. x 0.500” t (Pay Item No. 2896.1) PRICE BASED ON QUANTITY, EACH

A. Measurement for payment for Furnish and Install Steel Pipe Pile, 16.00” dia. x 0.500” t shall be measured per each, complete in place, including steel pile, fiberglass cap and reinforced pile tip. Steel pipe piles shall be furnished by the CONTRACTOR in the lengths indicated on the Plans.

B. Payment for Furnish and Install Steel Pipe Pile, 16.00” dia. x 0.500” t under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2896.1, which payment will constitute full compensation for all WORK described in Section 02896 - Steel Pipe Piles, as shown on the Plans and as directed by the ENGINEER.

1.13 FURNISH AND INSTALL STEEL PIPE PILE, 12 3/4” dia. x 0.500” t (Pay Item No. 2896.2) PRICE BASED ON QUANTITY, EACH

A. Measurement for payment for Furnish & Install Steel Pipe Pile, 12 3/4” dia. x 0.500” t shall be measured per each, complete in place, including steel pile, fiberglass cap and reinforced pile tip. Steel pipe piles shall be furnished by the CONTRACTOR in the lengths indicated on the Plans.

B. Payment for Furnish and Install Steel Pipe Pile, 12 3/4” dia. x 0.500” t under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2896.2, which payment will constitute full compensation for all WORK described in Section 02896 - Steel Pipe Piles, as shown on the Plans and as directed by the ENGINEER.

1.14 [ ] SUPPLEMENTAL FLOATATION (Pay Item Nos. 2897.1, 2897.2, 2897.3, 2897.4) PRICED BASED ON QUANTITY, EACH

A. Measurement for payment for Supplemental Floatation shall be measured per each unit suitably supplied, delivered and stored on site.

B. Measurement for payment for Install Supplemental Floatation shall be measured per each unit installed, complete in place and at locations directed in the field by the ENGINEER.

C. Payment for Supply Full Size Supplemental Floatation under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2897.1, which payment will constitute full compensation for all WORK described in Section 02897 - Floatation Billets, as shown on the Plans and as directed by the ENGINEER.

D. Payment for Install Full Size Supplemental Floatation under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2897.2, which payment will constitute full compensation for all WORK described in Section 02897 - Floatation Billets, as shown on the Plans and as directed by the ENGINEER.

E. Payment for Supply Half Size Supplemental Floatation under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2897.3, which payment will constitute full compensation for all WORK described in Section 02897 - Floatation Billets, as shown on the Plans and as directed by the ENGINEER.

F. Payment for Install Half Size Supplemental Floatation under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 2897.4, which payment will constitute full compensation for all WORK described in Section 02897 - Floatation Billets, as shown on the Plans and as directed by the ENGINEER.

1.15 SUPPLY AND INSTALL FLOAT TRANSITION ASSEMBLIES (Pay Item Nos. 2898.1)

A. Measurement for payment for Supply and Install Float Transition Assemblies will be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, in accordance with the requirements of the Contract Documents and as shown on the Plans.

B. Payment for Supply and Install Float Transition Assemblies under the Base Bid will be made at the Unit Price named in the Bid Schedule under Pay Item No. 2898.1, which payment will constitute full compensation for all WORK described in Section 02898 – Float Transition Plates, as shown on the Plans and as directed by the ENGINEER.

1.16 ELECTRICAL SYSTEM (Pay Item Nos. 16000.1, 16000.AA1) PRICE BASED ON LUMP SUM

A. Measurement for Electrical System shall be based upon the completion of the entire WORK as a Lump Sum Pay Unit, complete, including all electrical and lighting components and other miscellaneous appurtenances as shown on the Plans and in accordance with the requirements of the Contract Documents.

B. Payment for Electrical System under the Base Bid shall be made at the Unit Price named in the Bid Schedule under Item No. 16000.1, which payment will constitute full payment for all WORK as shown on the Plans and as directed by the ENGINEER.

C. Payment for Party Float Storage Shed Electrical under Additive Alternate 1 shall be made at the Unit Price named in the Bid Schedule under Pay Item No. 16000.AA1, which payment will constitute full payment for all WORK as shown on the Plans and as directed by the ENGINEER.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01505 - MOBILIZATION

PART 1 - GENERAL

1.1 GENERAL

A. Mobilization shall include the obtaining of all permits not provided by the OWNER; moving onto the site of all plant and equipment; furnishing and erecting plants, temporary buildings, and other construction facilities; and implementing security requirements; all as required for the proper performance and completion of the WORK. Mobilization shall include the following principal items:

1. Moving on to the site of all CONTRACTOR's plant and equipment required for operations.
2. Providing all on-site communication facilities, including radios and cellular phones.
3. Obtaining all required permits not provided by the OWNER.
4. Having all OSHA required notices and establishment of safety programs.
5. Having the CONTRACTOR's superintendent at the job site full time.
6. Submitting initial submittals.

1.2 PAYMENT FOR MOBILIZATION

A. The CONTRACTOR's attention is directed to the condition that no payment for Mobilization or any part thereof, will be approved for payment under the contract until all Mobilization items listed above have been completed as specified.

B. As soon as practicable after receipt of the Notice to Proceed, the CONTRACTOR shall submit a breakdown to the ENGINEER for approval, which shall show the estimated value of each major component of Mobilization. When approved by the ENGINEER, the breakdown will be the basis for initial progress payments in which Mobilization is included.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION

SECTION 02060 – DEMOLITION AND DISPOSAL

PART 1 - GENERAL

1.1 DESCRIPTION. WORK under this Section shall include all labor, materials, tools and equipment necessary for the demolition, salvage and proper offsite disposal or storage of all items as designated herein and as shown on the plans. The CONTRACTOR shall provide an appropriate disposal site for all items designated to be disposed. Demolition and disposal methods shall meet all local, state and federal regulations.

PART 2 - PRODUCTS (Not Used).

PART 3 - EXECUTION

3.1 EXAMINATION AND PREPARATION

A. The OWNER shall have first right of refusal for all salvageable demolished materials. OWNER retained salvaged material shall be delivered to an OWNER specified location within 1 mile of the project site.

B. Examine conditions on site with ENGINEER and OWNER prior to commencement of WORK. Coordinate with OWNER prior to commencement of demolition to schedule OWNER and CONTRACTOR Work elements.

C. Conduct demolition to minimize interference with adjacent structures and interruption to public services.

D. Cease operations immediately if adjacent structures appear to be in danger and notify ENGINEER. Do not resume operations until directed by ENGINEER.

3.2 DEMOLITION AND DISPOSAL

A. The CONTRACTOR shall coordinate with OWNER on the schedule and sequencing of pile removal at least twenty (20) working days prior to commencement of any demolition activities.

B. Demolish and dispose all other incidental and miscellaneous items as required to complete the project.

C. Place construction signs and barricades as required preventing public entry into WORK area.

D. Repair any damage to existing facilities designated to remain.

E. Provide Traffic Control Plan for OWNER approval at least five (5) working days prior to any upland demolition WORK.

END OF SECTION

02601 – DOMESTIC WATER SYSTEM

PART 1 - GENERAL

1.1 DESCRIPTION

A. The WORK under this Section includes providing all labor, materials, tools and equipment necessary for furnishing and installing the domestic water system to include buried and suspended water pipe and fittings, vaults and equipment, thrust blocks, disinfection and testing. The CONTRACTOR shall install the water pipe and fittings to the horizontal and vertical alignment shown on the Plans and shall complete all associated WORK described in this Section.

B. This specification is supplemental to City of Homer Standard Construction Specifications Division 600 Water Systems and is intended to provide specifications for components not directly covered in the Standard Specifications documents. Should a conflict be encountered between this specification and the Standard Specifications, this specification shall take precedence.

C. All water system components shall have NSF 61 certification unless otherwise approved by the ENGINEER.

D. All water system components shall have a minimum pressure rating of 160 p.s.i. except as otherwise noted.

1.2 REFERENCES

A.	ASME	American Society of Mechanical Engineers
B.	ASTM	American Society for Testing and Materials
C.	AWWA	American Water Works Association
D.	NSF	National Science Foundation
E.	PPI	Plastic Pipe Institute

1.3 SUBMITTALS

A.	Water pipe and fittings:	Material certifications and catalogue cut sheets.
B.	Waterline appurtenances:	Catalogue cut sheets.
C.	Water pedestals:	Material certifications, cut sheets and shop drawings.
D.	HDPE fusion technician:	Certificate of fitness.
E.	Flanges and backup rings:	Material certifications and shop drawings
F.	Steel Components:	Shop drawings and material certifications.

G. On catalogue sheets with more than one item clearly indicated which item shall be utilized.

PART 2 - PRODUCTS

2.1 HIGH DENSITY POLYETHYLENE PIPE AND FITTINGS

A. High Density Polyethylene Pipe (HDPE) and fittings shall be manufactured in accordance with AWWA C906. HDPE shall be manufactured from PE4710 polyethylene compounds that meet or exceed ASTM D3350 Cell Classification 445574. All HDPE pipe and fittings shall be certified by the NSF for potable water service. HDPE pipe and fitting material compound shall contain color and ultraviolet (UV) stabilizer meeting or exceeding the requirements of Code C per ASTM D3350.

B. HDPE waterline pipe shall be rated for a minimum 160 psi.

C. HDPE fittings shall be PE4710 with the cell classification noted above. Fittings shall be molded or fabricated with pressure ratings at a minimum equal to that of the pipe. Fittings shall be butt fusion type unless otherwise noted on the plans or approved by the Engineer. Electro-fusion connections are allowed where shown on the Plans and elsewhere on a limited basis upon Engineer approval. Fittings and connections shall conform to the following:

1. Butt fusion fittings shall meet ASTM D3261
2. Electro-fusion fittings shall meet ASTM F1055
3. Socket fittings are not permitted.
4. All components shall be NSF-61 certified.

D. Flanged pipe connections are allowed where shown on the Plans and elsewhere on a limited basis upon Engineer approval. Flanges shall be PE 4710, with a minimum Cell Classification as noted above. Flanges shall conform to ASTM D 3261 or ASTM F 2206 as applicable. Flanges shall have a pressure rating at minimum equal to the pipe unless otherwise specified on the plans. Markings for molded or machined flanges shall be per ASTM D 3261. Fabricated flange adapters shall be per ASTM F 2206.

1. Back-up rings, bolts and associated hardware shall be 316 stainless steel unless otherwise noted in the Plans and shall be provided in accordance with Section 05120-Metal Fabrication. Installation shall follow the guidelines of Plastic Pipe Institute Technical Note # 38. Bolt-holes and bolt-circles shall conform to one of these standards: ASME B-16.5 Class 150, ASME B-16.47 Series A Class 150, ASME B-16.1 Class 125, or AWWA C207 Class 150 Series B, D, or E. The back-up ring shall provide a long-term pressure rating at a minimum equal to the pressure-class of the pipe with which the flange adapter assembly will be used, and such pressure rating shall be clearly marked on the back-up ring.

E. Pedestal service connections shall be electro-fusion saddles, sidewall fusion branch saddles, or manufactured tapping tees made from materials specified in Part 2.4C unless otherwise noted on the Plans or approved by the ENGINEER. When service connections require a change in pipe material, transitions shall be made with a 316 stainless steel threaded outlet. Mechanical strap-on saddles shall only be permitted upon ENGINEER approval, and must be approved by the manufacturer for use on HDPE pipe. Mechanical strap-on saddles shall be entirely constructed of 316 s.s. All service connections shall be installed per manufacturer's recommendations.

1. Service connection outlet size shall be one inch IPS unless otherwise indicated on the Plans.

2. The size of a sidewall fusion saddle shall be as indicated on the plans. The saddle shall be made in accordance with ASTM D 3261 or ASTM F 2206. After installation, approximately ¼" of the PE pipe shall be visible beyond the saddle to confirm that proper surface preparation occurred. Saddle faces that do not provided ¼ inch of area beyond the saddle are not acceptable.

3. Tapping tees shall conform to ASTM D3261.

F. Transition fittings shall be full bore, butt fusion type with 316 s.s. IPS transitions unless otherwise noted on the plans.

G. HDPE ball valves shall be full bore type with a minimum pressure rating greater than or equal to that of the pipe and a 2" operation nut. CONTRACTOR to confirm compatibility with valve operation riser assembly prior to material order.

2.2 STAINLESS STEEL PIPE AND FITTINGS

A. Stainless steel pipe shall conform to AWWA C220 and Section 05120-Metal Fabrication. Stainless steel pipe and fittings shall be NSF 61 listed.

B. Stainless steel flanges shall conform to AWWA C228 and C207 as applicable and shall be factory welded onto pipe as noted in the plans per AWS recommendations. Flanges shall be provided in accordance with Section 05120-Metal Fabrication.

C. Bolts, nuts, and other miscellaneous hardware shall be 316 s.s. unless otherwise noted in the Plans and shall be provided according to section 05120-Metal Fabrication.

2.3 LUBRICANT

A. The lubricant shall be suitable, and acceptable by the manufacturer and the City of Homer Water Utility for lubricating the parts of the joint for assembly. The lubricant shall be non-toxic, "industrial food grade", shall not support the growth of bacteria, and shall have no deteriorating effects on the gasket material. It shall not impart taste or odor to the water in a pipe that has been flushed in accordance with AWWA C601, "Standard for Disinfecting Water Mains". The lubricant containers shall be labeled with the trade name or trademark and the pipe manufacturer's name where applicable."

2.4 UNDERGROUND MARKING TAPE

A. Underground marking tape shall be blue, six inch wide, four mil thick, polyethylene tape with black lettering with the following wording: “Caution: Waterline Buried Below.” Marking tape shall be installed 12 inches above the top of all water pipe.

2.5 CONCRETE

A. Concrete for thrust blocks shall conform to Section 03302 – Minor Concrete Structures.

B. Concrete anchor blocks shall be constructed with hot dipped galvanized Rebar and conform to Section 03302 – Minor Concrete Structures.

2.6 FLOAT SYSTEM COMPONENTS

A. Flexible hose shall meet the same pressure and integrity standards as the rigid pipe. Crimped or swaged connections required shall be performed with manufacturer recommended tools by a qualified technician.

B. 3” and 4” flex hose shall be *Goodyear White Flexwing Food Transfer* with 316 stainless steel PM internal expand body, 316 s.s. PM ferrule, and welded on 316 s.s. 150 lb. flanges at ends, or approved equal. All flange connection hardware shall be 316 s.s.

C. 1” HDPE flex pipe shall be performance pipe SIDR 7 (IPS) potable water tubing. All fittings shall be brass water works flare fittings, compatible with the tubing material.

D. Water Pedestals shell shall be constructed in accordance with Section 05120 – Metal Fabrication

E. Hose bibs shall be installed with a vacuum breaker, Watts No. 8A series or approved equal.

F. Water hangers, associated mounting hardware and U-bolts shall be hot-dip galvanized unless otherwise noted and provided in accordance with Section 05120 – Metal Fabrication.

PART 3 - EXECUTION

3.1 GENERAL

A. The CONTRACTOR shall preserve and protect all existing utilities and other facilities including but not limited to: telephone, television, electrical, water and sewer utilities, surface or storm drainage, highway or street signs, mail boxes, and survey monuments.

B. The CONTRACTOR shall immediately notify the City of Homer of utilities or other facilities damaged during construction and shall immediately repair or replace that which was damaged. The CONTRACTOR shall support and protect any underground utility conduits, pipes, or service lines where they cross the trench.

C. The CONTRACTOR shall give at least 24 hours notice to the Homer Water and Wastewater Utility Divisions and the Public Works Department prior to:

1. needing water or sewer main line locates;
2. interruption of water service in any area; or
3. use of water from any fire hydrant.

D. Any water service disruption shall be restored as soon as possible. The CONTRACTOR shall comply with the current policy on "Water and Sewer Line Locates" of the City of Homer Public Works Department, Water and Wastewater Utilities Divisions. The CONTRACTOR shall notify all local radio stations and any major customers who will be affected of a planned water service disruption.

E. The CONTRACTOR is responsible for maintaining continuous water service at existing volume and pressure to all structures, with either existing, temporary or new piping, except as provided in this Section.

3.2 PIPE INSTALLATION

A. All water pipe and fittings shall be inspected for defects. Damaged pipe will be rejected and the CONTRACTOR shall immediately place all damaged pipe apart from the undamaged and shall remove the damaged pipe from the site within 24 hours.

B. Whenever it becomes necessary to cut a length of water pipe, the cut shall be made by abrasive saw or by special pipe cutter.

C. The water pipe shall be laid to the horizontal and vertical alignment shown on the Plans. A minimum seven foot cover shall be maintained from finish grade to top of water pipe, unless otherwise shown on the Plans. Fittings shall be installed at the location shown on the Plans and elsewhere upon ENGINEER approval.

D. To prevent dirt, fluids, or other foreign material from entering the pipe and fittings during handling and installation, the open end of the pipe shall be protected by a water-tight plug at all times except when joining the next section of pipe.

E. Under no circumstances shall pipe deflections, either horizontal or vertical, exceed the manufacturer's printed recommendations. Where deflections would exceed the manufacturer's recommendations, fittings shall be used.

F. Existing water pipe and appurtenances to be removed or abandoned shall be as designated on the Plans or directed by the ENGINEER. Abandoned water services shall be plugged at the cut ends. Abandoned water pipes shall be removed as shown on the Plans, or mechanically plugged if not required to be removed.

3.3 HDPE PIPE INSTALLATION

A. HDPE water pipe and fittings shall be joined using butt fusion unless otherwise specified in the Plans or approved by the ENGINEER. The pipe shall be joined by the butt fusion procedure outlined in ASTM F 2620. All fusion joints shall be made in compliance with the pipe or fitting manufacturer's recommendations by certified technicians. The CONTRACTOR shall submit a certificate of fitness issued by the pipe manufacturer for each technician prior to beginning fusion operations.

B. Saddle fusion shall be done in accordance with the manufacturer's recommendations and ASTM F 2620. Saddle fusion joints shall be made by qualified fusion technicians. If the CONTRACTOR intends to use saddle fusion joints testing of sample joints may be required per the direction of the ENGINEER in accordance with ASTM F905.

C. Electro-fusion joining shall be done in accordance with the manufacturer's recommended procedure and ASTM F 1290. The electro-fusion transformer unit shall be the type capable of reading the electronic barcode associated each fitting and storing the fuse input and result information electronically. The CONTRACTOR shall maintain the data recorded by the electro-fusion unit throughout the warranty period of the WORK. This information shall be provided to the ENGINEER upon request. Electro-fusion joints shall be made by a qualified technician.

D. Socket fusion joints are not permitted.

3.4 FLUSHING, TESTING AND DISINFECTION

A. Prior to acceptance, the CONTRACTOR shall "Open-Bore" flush the water pipe then perform hydrostatic tests, electrical continuity tests, and disinfection and coliform tests. Testing may be done in any sequence. However, in the event the disinfection, coliform and continuity tests have been performed and repairs are made to the water pipe system in order to pass the hydrostatic test, all previous tests and the "Open-Bore" flushing shall be repeated to the satisfaction of the ENGINEER.

3.5 OPEN-BORE FLUSHING

A. Open bore flushing is required of all installed water pipes to remove any foreign matter. The CONTRACTOR shall furnish, install and remove all pumps, fittings and pipes necessary to perform the flushing; shall provide all additional excavation and backfill; and shall dispose of all water and debris flushed from the water pipe. Flushing through fire hydrants, reduced outlets or fittings shall not be permitted unless specifically authorized in writing by the ENGINEER. The CONTRACTOR shall notify the ENGINEER, in writing, 48 hours in advance of any flushing operation.

3.6 HYDROSTATIC TESTING

A. The ENGINEER shall be present for all hydrostatic and leakage tests. The CONTRACTOR shall notify the ENGINEER at least 24 hours prior to any test and shall notify the ENGINEER at least two hours in advance of the scheduled time if the test is to be cancelled or postponed.

B. Sections to be tested shall be limited to 1,500 feet, unless otherwise approved in writing by the ENGINEER.

C. Hydrostatic testing will be conducted in the presence of the ENGINEER on newly installed water pipes after "Open-Bore" flushing, in accordance with the requirements of AWWA C600 or C901 and as stated hereafter. The CONTRACTOR shall furnish all assistance, equipment, labor, materials, and supplies necessary to complete the test to the satisfaction of the ENGINEER. The CONTRACTOR shall suitably valve-off or plug the outlet to existing or previously-tested water pipe prior to performing the required hydrostatic test. Prior to testing, all air shall be expelled from the water pipe. If permanent air vents are not available to accommodate testing, the CONTRACTOR shall install corporation stops and blow-off lines so the air can be expelled as the line is filled with water.

D. Defective materials or poor quality of WORK, discovered as a result of the hydrostatic tests, shall be replaced by the CONTRACTOR at no additional cost to the OWNER. Whenever it is necessary to replace defective material or correct the workmanship, the hydrostatic test shall be repeated until a satisfactory test is obtained.

E. After completion of testing, all test and air vent pipe shall be removed and the corporation stop closed at the water pipe, in the presence of the ENGINEER.

3.7 HDPE HYDROSTATIC TESTING PROCEDURE

A. Testing shall be performed with water only. Compressed gas will not be accepted as a suitable test medium.

B. The hydrostatic test pressure shall be a minimum of 150 psi or 1½ times the operating pressure of the water pipe (measured at the highest elevation of the newly-installed water pipe), whichever is greater, unless otherwise directed by the ENGINEER. Acceptance pressure testing shall be done with all service lines installed, corporation stops open, and pressure against the closed curb stops. If appurtenances in the system have a maximum pressure rating lower than that specified above they will be isolated from the system by the CONTRACTOR and tested separately per manufacturer's recommendations as approved by the ENGINEER. If isolation cannot reasonably be performed as determined by the ENGINEER the test pressure for the system shall be equal to the maximum operating pressure of the lowest pressure rated component in the system.

C. Testing shall be performed with all parts of the system within the test section installed in their design location to the extent possible and reasonable as determined by the ENGINEER. All parts of the section to be tested shall be restrained from movement in case of failure.

D. HDPE hydrostatic testing shall be performed using the "pressure drop" method. The "make up water" test method will not be accepted. Testing shall be performed in accordance with ASTM F-2164 and the procedure described herein:

1. Fill the test section slowly with water ensuring all air is purged from the system. Filling should be performed from the point in the system lowest in elevation. If this point is inaccessible the CONTRACTOR shall take reasonable measures to ensure the system is purged of air prior to testing.

2. Allow the test section temperature to equalize throughout.

3. Slowly pressurize the test section to the test pressure as indicated in part B.

4. Add make-up water as necessary to maintain the test pressure for a minimum of 4 hours.

5. Reduce the pressure by 10 psi; this will be the test phase pressure.

6. Without increasing the pressure or adding make-up water monitor the system and visually inspect for leakage. A passing test is indicated if no visual leakage is observed and the pressure remains within 5% of the test phase pressure for a minimum of 1 hour.

E. If fire hydrant assemblies are present in the system perform DIP test item # 3.8-C above.

F. If the test section fails, the CONTRACTOR shall depressurize the system and repair defective areas at no additional cost to the OWNER.

G. The system must be allowed to "relax" for a minimum of 8 hours prior to retesting.

3.8 DISINFECTION

A. Disinfection by chlorination is required and shall be performed in accordance with the provisions of the City of Homer Standard Construction Specifications Section 602.4.

END OF SECTION

SECTION 02611 - DRY FIRE LINE

PART 1 - GENERAL

1.1 DESCRIPTION

A. The WORK under this Section includes providing all labor, materials, tools and equipment necessary for furnishing and installing the moorage system dry fire line system, including all piping, fittings, valves, standpipes, brackets, blocking, anchorages, signage and all other related equipment and appurtenances as shown in the Plans. All fire system components shall have a minimum pressure rating of 200 PSI.

1.2 SUBMITTALS

A. All dry fire line system component catalogue cut sheets, indicate application location. On manufacturer data sheets with several items, clearly identify items intended for use.
B. Pipe and fittings material certifications and cut sheets.
C. Hose and fittings material certifications and catalogue cut sheets.
D. Metal component Shop Drawings.

PART 2 - PRODUCTS

2.1 PIPE AND FITTINGS

A. HDPE pipe and fittings shall be PE4710 with a minimum pressure rating of 200 p.s.i. provided in accordance with 02601-Domestic Water System; Article 2.4-High Density Polyethylene Pipe and Fittings.
B. Hot dip galvanized steel pipe shall be schedule 40 ASTM A53 grade B type E or S.
C. Stainless steel pipe and fittings shall have a min. pressure rating of 200 psi and shall be provided in accordance with the following:
    i. Stainless steel pipe shall conform to AWWA C220 and Section 05120-Metal Fabrication.
    ii. Stainless steel flanges shall conform to AWWA C228 and C207 as applicable and shall be factory welded onto pipe per AWS recommendations. Flanges shall be provided in accordance with Section 05120-Metal Fabrication.
    iii. Bolts, nuts, and other miscellaneous hardware shall be 316 SS unless otherwise noted in the Plans and shall be provided according to section 05120-Metal Fabrication.

D. Flanged pipe connections are allowed where shown on the Plans and elsewhere on a limited basis upon Engineer approval. All flanged connections shall have 316 SS convoluted flange backup rings and 316 SS. connecting hardware and provided in accordance with Section 02601 Domestic Water System and Section 05120 – Metal Fabrication.

E. The flexible fire line hose and fittings shall be 200 psi. min. pressure rated. Hose shall be equipped with 316 stainless steel PM internal expand body, 316 SS. PM ferrule, and welded on 316 SS 150 lb. flanges at ends compatible with the pipe connections and conforming to the provisions of section 02601-Domestic water system. All flange connection hardware shall be 316 SS.
    a) Hose shall be manufactured by Parker Hannifin Corporation Industrial Hose Division or approved manufacturer of similar products. Hose construction shall meet the same

pressure and integrity standards as the rigid pipe, shall be constructed to endure the conditions involved with its intended use and shall meet the following minimum specifications.

i. Hose cover shall be EPDM and shall be salt water tight.
ii. Hose shall be reinforced with helix wires ensuring the hose will not deform when subjected to pressures at sea depths of up to 40 feet.
iii. Hose inner tube shall be compatible with municipal water used in fire suppression. Water does not need to remain potable.
iv. Hose shall have a minimum bend radius of no more than 24 inches.

2.2 FIRE STANDPIPE AND LINE COMPONENTS

A. The fire department inlet connection shall be 4" x 2 ½" x 2 ½" x 2 ½" bronze rated for a minimum of 200 psi. Inlet connection caps shall protect the threads, shall be breathable and shall be locking type.
B. Fire standpipe angle valves shall be bronze with a 2 ½" diameter fire department threaded outlet, rated for a minimum of 200 psi and equipped with a threaded bronze cap & chain.
C. The 4" cleanout gate valves shall be bronze with a minimum pressure rating of 200 p.s.i. with top caps.

PART 3 – EXECUTION

3.1 GENERAL

A. CONTRACTOR and Fabricator to verify all fit-ups prior to order

3.2 INSTALLATION

A. Dry fire line installation shall be in accordance with Section 02601 – Domestic Water System, as applicable.

3.3 OPEN-BORE FLUSHING

A. Flush dry fire line per Section 02601 – Domestic Water System

3.3 HYDROSTATIC TESTING

A. Provide dry fire line hydrostatic testing per Section 02601 – Domestic Water System, except the hydrostatic test pressure shall be 200 p.s.i.
B. Perform hydrostatic testing in accordance with the manufacturer's recommended procedures.
C. Defective materials or poor quality of WORK, discovered as a result of the hydrostatic tests, shall be replaced by the CONTRACTOR at no additional cost to the OWNER. Whenever it is necessary to replace defective material or correct the workmanship, the hydrostatic test shall be repeated until a satisfactory test is obtained.

END OF SECTION

SECTION 02702 - CONSTRUCTION SURVEYING

PART 1 - GENERAL

1.1 DESCRIPTION

A. The WORK under this Section includes providing all labor, materials, tools and equipment necessary to perform all surveying and staking necessary for the completion of the Project in conformance with the Plans and Specifications, including all calculations required to accomplish the WORK.

B. The WORK shall include the staking, referencing and all other actions as may be required to preserve or restore land monuments and property corners which are situated within the Project area, and to establish monuments as shown on the Plans.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 CONSTRUCTION

A. All surveying involving property lines or monuments shall be done by, or under the direction of, a Registered Land Surveyor licensed to practice in the State of Alaska.

B. The OWNER will supply information relative to the approximate locations of monuments and corners, but final responsibility for locations, referencing, and restoration shall rest with the CONTRACTOR.

C. In the event the CONTRACTOR does not replace the survey monuments and property corners disturbed by the CONTRACTOR's operations, the OWNER may, after first notifying the CONTRACTOR, replace the monuments in question and the cost of such replacements shall be deducted from payments to the CONTRACTOR.

D. The CONTRACTOR shall provide the OWNER with a copy of all surveyor's notes, if requested by the ENGINEER, prior to each Pay Request, which payment for Pay Item No. 2702.1, Construction Surveying, is increased from the previous Pay Request.

E. The CONTRACTOR shall provide the OWNER with a copy of all surveyors' notes, prior to the request for final payment, and include the information on the record drawings.

F. The CONTRACTOR shall obtain all information necessary for as-built plan production from actual measurements and observations made by the CONTRACTOR's own personnel, including Subcontractors, and submit this information to the ENGINEER.

G. The CONTRACTOR shall use competent, qualified personnel and suitable equipment for the layout WORK required and shall furnish all stakes, templates, straightedges and other devices necessary for establishing, checking and maintaining the required points, lines and grades.

H. The CONTRACTOR shall perform all staking necessary to delineate clearing and/or grubbing limits; all cross sections necessary for determination of excavation, embankment, including preliminary, intermediate and/or re-measure cross sections as

may be required; all slope staking; all staking and all staking of culverts and drainage structures, including the necessary checking to establish the proper location and grade to best fit the conditions on site; the setting of such finishing stakes as may be required; the staking, referencing and other actions as may be required to preserve or restore land monuments and property corners; and all other staking necessary to complete the project.

I. The CONTRACTOR's field books shall be available for inspection by the ENGINEER at any time.

J. The ENGINEER may randomly spot-check the CONTRACTOR's surveys, staking, and computations at the ENGINEER's discretion. After the survey, or staking, has been completed, the CONTRACTOR shall provide the ENGINEER with a minimum of 72 hours notice prior to performing any WORK, and shall furnish the appropriate data as required to allow for such random spot-checking. The OWNER assumes no responsibility for the accuracy of the WORK.

K. The ENGINEER may make minor adjustments in grades and locations of improvements based on the staking information provided by the CONTRACTOR. The CONTRACTOR shall adjust the grade stakes as required to accommodate minor changes at no additional cost to the OWNER.

L. The CONTRACTOR shall maintain a set of As-built plans in the onsite project office. As-built plans shall be kept up to date with current as-built dimensions and details as approved by the ENGINEER and shall be submitted to the OWNER at the end of the project. Final project As-Built drawings shall be stamped by a Registered Land Surveyor licensed to practice in the State of Alaska.

END OF SECTION

SECTION 02893 – PAVILION

PART 1 - GENERAL

1.1 DESCRIPTION

A. The WORK in this Section shall include all labor, materials, tools and equipment necessary to furnish and install all Pavilion timber structure, roof, all associated connection hardware, and all other related Work in accordance with the requirements of the Contract Documents and as shown on the Plans.

1.2 REFERENCES

A. AWPA (American Wood Preservers Association), 2013 Standards

B. WWPA (Western Wood Products Association) Western Lumber Grading Rules, 2011

1.3 SUBMITTALS

A. Timber Grading and Pressure Treatment Certification for all timbers utilized for fabrication of the Pavilion.

B. Timber Treatment product for field treatment of timbers. Submit product specifications from the manufacturer for field treating treated timbers

C. Roofing. Submit manufacturer information which shall include product information, material specifications, dimensions and attachment requirements.

D. Manufactured hardware products. Submit manufacturer information which shall include product information and material specifications.

E. Shop Drawings for all fabricated items; including, but not limited to, steel connections, timber connections and roofing layout and connections.

F. Structural Steel Submittals per Section 05120 – Metal Fabrication.

PART 2 - PRODUCTS

2.1 MATERIALS - All materials for Pavilion components shall conform to the Contract Documents and as shown on the Plans. Purchase orders shall contain all necessary information to ensure that materials purchased will comply with the fore mentioned documents. The Fabricator shall inspect all materials, upon arrival, for conformance with the purchase orders, and the Fabricator shall confirm that mill certificates and test reports are provided and that they correctly identify the materials delivered. If a supplier proposes a substitute for any material, the proposed substitution shall be submitted to the ENGINEER for approval prior to commencing any work involving use of the proposed substitute material. Supplier shall supply specified materials if the proposed substitution is not approved by the ENGINEER.

All sawn timber shall be incised. Excessive incising that cause's structural damage to the wood shall be rejected and replaced at no additional cost to the OWNER. Excessive incising is defined as undue incision depths and incision density per area of timber when preservative retention has been achieved. Evidence of excessive incising shall be timber flaking or shipping due to lightly

scuffing the timber surface. In no case shall incising exceed the maximums allowed by the National Design Specification for wood construction (NDS), section 4.3.8

A. All glued-laminated members shall be manufactured with Coast Region Douglas Fir that conforms to AITC Standard No. 117-87 specifications and shall be manufactured in balanced combinations having equal design values for both the positive and negative bending. The glulam members shall have an industrial finish, shall be for exterior use and have design values equal to or exceeding the following:

Bending (Fbx) = 2,400 psi
Bending (Fby) = 1,450 psi
Horizontal Shear (Fv) = 265 psi
Modulus of Elasticity (E) = 1,700,000 psi

Unless otherwise noted, all glued-laminated timbers shall be pressure treated with creosote per current AWPA U1 and T1 specifications to a minimum retention of 12 pounds per cubic foot. Fabrication and drilling of timber shall be completed as much as possible before pressure treatment. Field drilled holes, cuts and minor damaged areas shall be field treated per AWPA M-4, with an ENGINEER approved treatment product. Glued-laminated timber ends that have been field cut after treatment shall be scatter nailed with 3-inch copper nails at 2 inches on-center each way in addition to field treatment. Bolt holes shall be 1/8 inch oversized.

B. All sawn timber shall be surfaced four sides (S4S) and conform to No. 1 and better Coastal Region Douglas Fir, according to WWPA Grading Rules, unless otherwise noted on the Plans. No individual timber shall fall outside the specified grade. Each piece of lumber shall be stamped with a grade mark, which identifies the grading and certification, and shall be so marked as to be legible after pressure treatment. Where specified, sawn timber shall be pressure treated with ACZA per current AWPA U1 and T1 specifications to a net dry salt retention of not less than 0.6 pounds per cubic foot. Fabrication and drilling of timber shall be done as much as possible before pressure treatment. Field drilled holes, cuts and minor damaged areas shall be field treated per AWPA M-4, with an ENGINEER approved treatment product. Bolt holes shall be 1/8 inch oversized.

C. Roofing shall be Sequentia® Super 800® (8 o.z.) Heavy-Duty FRP Panel –or approved equal. The panel color shall be clear. Wood closure strips shall be provided at each rafter. Flashing and trim shall be installed per manufacturer recommendations. All panels shall be installed per manufacturer recommendations.

D. All manufactured hardware products including, but not limited to, hangers and tiedowns shall be installed per manufacturer recommendations.

E. Miscellaneous steel plates and shapes shall be ASTM A572 Grade 50, galvanized per ASTM A123 or A153, and comply with Section 05120 - Metal Fabrication.

F. Bolts, connection rods, nails, and miscellaneous hardware shall comply with Section 05120 – Metal Fabrication.

PART 3 – EXECUTION

3.1 GENERAL

A. Base plates and support posts shall be constructed according to the Plans and in compliance with Section 05120 – Metal Fabrication.

3.2 TRANSPORT AND DELIVERY

A. The CONTRACTOR shall assume full responsibility for any damages or losses resulting from the handling or transporting of materials and/or any components during loading, shipping, transport and delivery to the fabrication and/or project site as well as the subsequent handling required on site for installation.

B. Any materials unit and/or components damaged during transport and delivery and/or during any other handling operations prior to final acceptance shall be repaired or replaced by the CONTRACTOR at the discretion of the ENGINEER and at no additional cost to the OWNER.

3.3 INSTALLATION

A. The pavilion shall be installed as shown in the Plans and/or to the highest industry standards if not fully shown on the Plans. The CONTRACTOR shall repair and/or replace, at the OWNER's preference, and at no additional cost to the OWNER, any Pavilion unit and/or Pavilion components damaged due to improper support during installation.

C. Construction methods and products not specifically mentioned in these Contract Documents shall be utilized using reasonable care and the highest quality construction practices. Final inspection and acceptance of all work and products not specifically mentioned in these Contract Documents shall be made by the ENGINEER. Approval shall be based upon conformance to the Contract Documents, quality of workmanship, applicable industry standards, and pertinent manufacturer's recommendations.

END OF SECTION

SECTION 02894 – STORAGE SHEDS

PART 1 - GENERAL

1.1 DESCRIPTION

A. The WORK in this Section shall include all labor, materials, tools and equipment necessary to furnish and install all storage shed walls, roofs, all associated connection hardware, and all other related Work in accordance with the requirements of the Contract Documents and as shown on the Plans.

1.2 REFERENCES

A. AWPA (American Wood Preservers Association), 2013 Standards

B. WWPA (Western Wood Products Association) Western Lumber Grading Rules, 2011

C. International Building Code (IBC 2009)

1.3 SUBMITTALS

A. Timber Grading and Pressure Treatment Certification for all timbers utilized for fabrication of storage sheds.

B. Timber Treatment product for field treatment of storage shed timbers. Submit product specifications from the manufacturer for field treating ACZA treated timbers.

C. Man door. Submit manufacturer information which shall include product information, material specifications and dimensions.

D. Coiling door. Submit manufacturer information which shall include product information, material specifications, dimensions and attachment requirements.

E. Moisture Barrier. Submit manufacturer information which shall include product information and material specifications.

F. Metal Siding and Roofing. Submit manufacturer information which shall include product information, material specifications, dimensions and attachment requirements.

G. Felt Paper. Submit manufacturer information which shall include product information and material specifications.

H. Insulation. Submit manufacturer information which shall include product information and material specifications.

I. Manufactured hardware products. Submit manufacturer information which shall include product information and material specifications.

PART 2 - PRODUCTS

2.1 MATERIALS - All materials for shed components shall conform to the Contract Documents and

as shown on the Plans. Purchase orders shall contain all necessary information to ensure that materials purchased will comply with the fore mentioned documents. The Fabricator shall inspect all materials, upon arrival, for conformance with the purchase orders, and the Fabricator shall confirm that mill certificates and test reports are provided and that they correctly identify the materials delivered. If a supplier proposes a substitute for any material, the proposed substitution shall be submitted to the ENGINEER for approval prior to commencing any work involving use of the proposed substitute material. Supplier shall supply specified materials if the proposed substitution is not approved by the ENGINEER.

All sawn timber shall be incised. Excessive incising that cause's structural damage to the wood shall be rejected and replaced at no additional cost to the OWNER. Excessive incising is defined as undue incision depths and incision density per area of timber when preservative retention has been achieved. Evidence of excessive incising shall be timber flaking or shipping due to lightly scuffing the timber surface. In no case shall incising exceed the maximums allowed by the National Design Specification for wood construction (NDS), section 4.3.8

A. All sawn timber shall be surfaced four sides (S4S) and conform to No. 1 and better Coastal Region Douglas Fir, according to WWPA Grading Rules, unless otherwise noted on the Plans. No individual timber shall fall outside the specified grade. Each piece of lumber shall be stamped with a grade mark, which identifies the grading and certification, and shall be so marked as to be legible after pressure treatment. Where specified, sawn timber shall be pressure treated with ACZA per current AWPA U1 and T1 specifications to a net dry salt retention of not less than 0.6 pounds per cubic foot. Fabrication and drilling of timber shall be done as much as possible before pressure treatment. Field drilled holes, cuts and minor damaged areas shall be field treated per AWPA M-4, with an ENGINEER approved treatment product. Bolt holes shall be 1/8 inch oversized.

B. All plywood shall be manufactured and grade stamped per the American Plywood Association (APA) Voluntary Product Standard PS 1. All plywood shall be APA Rated Sheathing Exterior (C-C Exterior plywood under PS 1). No sheathing shall fall outside the specified grade. Each piece of sheathing shall be stamped with a grade mark, which identifies the grading and certification, and shall be so marked as to be legible after pressure treatment. All sheathing shall be pressure treated with ACZA per current AWPA U1 (Use Category: 5C, Commodity Specification Section G: Marine (Salt Water) Applications) and T1 specifications to a net dry salt retention of not less than 2.5 pounds per cubic foot. Fabrication and drilling of timber shall be done as much as possible before pressure treatment. Field drilled holes, cuts and minor damaged areas shall be field treated per AWPA M-4, with an ENGINEER approved treatment product.

C. The man doors shall be CURRIES® 707 Series – Composite or ENGINEER approved alternative. The door color shall be approved by the OWNER.

D. Coiling doors shall be a DuraCoil™ SELECT by RAYNOR® manual operation. All coiling doors shall be 0.05" aluminum and installed per manufacturer. The coiling door color shall be approved by the OWNER. Size shall be as specified on the drawings.

E. Moisture Barrier shall be Tyvek® manufactured by DuPont™ or ENGINEER approved alternative.

F. Felt Paper shall be 30-lb asphalt roof felt and installed per manufacturer.

G. All metal siding and roofing shall be Nu-Ray Metals - NRM 4000 Exposed Fastener Panels or approved equal. All panels shall be 28 gauge material and installed per manufacturer. The panel color shall be approved by the OWNER. Flashing and trim shall be provided installed per manufacturer and industry standards.

H. All insulation shall be closed cell polyurethane "spray foam" and have a minimum R-Value of 19 for all walls and 38 for the roof .

I. All manufactured hardware products including, but not limited to, hangers and tiedowns shall be as specified unless a suitable alternative is approved by the Engineer.

J. Bolts, connection rods, nails, and miscellaneous hardware shall comply with Section 05120 – Metal Fabrication.

2.2 DELIVERY, STORAGE, AND PROTECTION

A. All timber shall be protected during transportation to and from treatment facilities. There shall be no mechanical damage to timbers from steel banding, handling, etc. Timber shall be stored above ground on pallets, platforms or other supports.

B. All metal siding and roofing shall be protected during transportation to and from treatment facilities. There shall be no mechanical damage to the metal siding or roofing from steel banding, handling, etc. Protect metal siding and roofing during handling and transport to jobsite. Any material damaged during transportation shall be repaired or replaced at no additional cost to the OWNER.

C. All other storage shed materials shall be protected during shipping and handling. Materials shall be stored above ground on pallets, platforms or other supports, and be protected from excessive exposure to moisture prior to fabrication. Any material damaged during transportation shall be repaired or replaced at no additional cost to the OWNER.

PART 3 – EXECUTION

3.1 GENERAL

A. All materials, workmanship and construction methods shall be in accordance with the structural drawings and specifications. Minimum provisions of the International Building Code (IBC 2009) and local amendments shall apply where details are not shown or described.

3.2 TRANSPORT AND DELIVERY

A. The CONTRACTOR shall assume full responsibility for any damages or losses resulting from the handling or transporting of materials and/or any components during loading,

shipping, transport and delivery to the fabrication and/or project site as well as the subsequent handling required on site for installation.

B. Any materials and/or components damaged during transport and delivery and/or during any other handling operations prior to final acceptance shall be repaired or replaced by the CONTRACTOR at the discretion of the ENGINEER and at no additional cost to the OWNER.

3.3 INSTALLATION

A. All storage sheds shall be installed as shown in the Plans and/or to the highest industry standards if not fully shown on the Plans. The CONTRACTOR shall repair and/or replace, at the OWNER's preference, and at no additional cost to the OWNER, any storage shed unit and/or storage shed components damaged due to improper support during installation.

C. Construction methods and products not specifically mentioned in these Contract Documents shall be utilized using reasonable care and the highest quality construction practices. Final inspection and acceptance of all work and products not specifically mentioned in these Contract Documents shall be made by the ENGINEER. Approval shall be based upon conformance to the Contract Documents, quality of workmanship, applicable industry standards, and pertinent manufacturer's recommendations.

END OF SECTION

SECTION 02895 - MOORAGE FLOATS

PART 1 - GENERAL

1.1 DESCRIPTION

A. The WORK in this Section shall include all labor, materials, tools and equipment necessary for fabrication, handling, transport, and installation of the complete moorage float system, consisting of the new gangway landing float, party float, headwalk float, multiple mainwalk and finger float units, all associated connecting hardware, and all other related Work in accordance with the requirements of the Contract Documents and as shown on the Plans.

1.2 REFERENCES

A. AWPA (American Wood Preservers Association), 2013 Standards

B. WWPA (Western Wood Products Association) Western Lumber Grading Rules, 2011

C. AISC (American Institute of Steel Construction) Code of Standard Practice - Manual of Steel Construction (ASD).

D. ASTM (American Society of Testing Materials) Specifications

1.3 SUBMITTALS

A. Timber Fabrication Shop Drawings for all fabricated timber items.

B. Float Fabrication/Assembly Drawings - Float Fabrication/Assembly Drawings shall illustrate and coordinate all elements (timbers, steel weldments, assemblies, HDPE floatation, ballast tanks, hardware and foam billets) that make up each typical type of float module, including the location and position of the elements on the individual float and/or complete float system.

C. Timber Grading, Pressure Treatment and Creosote Certification for all timbers utilized for fabrication of float components.

D. Timber Treatment product for field treatment of float timbers. Submit product specifications from the manufacturer for field treating of both ACZA (Ammoniacal Copper Zinc Arsenate) treated timbers and creosote treated timbers.

E. Structural Steel Submittals per Section 05120 – Metal Fabrication. Steel fabrication drawings must be approved by the ENGINEER prior to cutting, drilling and treatment of timbers. CONTRACTOR shall coordinate shop drawing submittals between float fabricator and steel fabricator so as to submit both timber and steel fabrication shop drawings simultaneously.

F. UHMW (Ultra High Molecular Weight) Polyethylene - Submit product specific material specifications and Fabrication Shop Drawings for each type of UHMW piece.

G. Steel Pipe Hinge Assembly – Submit rubber bushing material specifications and a completely assembled hinge assembly sample consisting of a rubber bushing with

UHMW sleeve and a galvanized steel pipe hinge segment. Critical fit up tolerances will be verified with this sample.

H. Polyethylene Floatation Drums – Submit manufacturer's published literature for specific product including material specifications, drawings illustrating overall dimensions, typical sections and wall thickness, and fabrication and dimensional tolerances.

I. HDPE pipe and plate - Submit manufacturer's published literature for specific product including material specifications, drawings illustrating overall dimensions, typical sections and wall thickness, and fabrication and dimensional tolerances.

J. Fiberglass Cable Tray – Submit manufacturer's published literature for specific product, accessories and associated attachment hardware along with shop fabrication drawings illustrating cable tray segment lengths used for each type of float unit.

K. Finger Float Cleats. Submit manufacturer information which shall include material specifications, product illustration, dimensions, and attachment requirements.

L. Finger Float Corner Bumpers. Submit manufacturer information which shall include product description, product illustration, model number, dimensions, and proposed attachment method.

M. Non-Skid Coating - Submit for ENGINEER approval the manufacturer's published literature, for the specific product, along with samples of coated, galvanized steel plate which demonstrate the level of coarseness which the product provides.

N. Nylon Rod – Submit manufacturer information which shall include material specifications, product illustration, and dimensions.

O. Float Handling Plan - CONTRACTOR shall coordinate with the float fabricator and all transport companies to submit a float handling plan for review and approval, by the ENGINEER, prior to handling and transporting of any float units. Plan shall describe all lifting equipment and devices as well as proposed transport configuration of multiple float units.

P. Float Fabricator's Quality Assurance Program - Submit copy of quality assurance program float fabricator proposes to use during the float fabrication process.

PART 2 - PRODUCTS

2.1 MATERIALS - All materials for float components shall conform to the Contract Documents and as shown on the Plans. Purchase orders shall contain all necessary information to ensure that materials purchased will comply with the fore mentioned documents. The fabricator shall inspect all materials, upon arrival, for conformance with the purchase orders, and the fabricator shall confirm that mill certificates and test reports are provided and that they correctly identify the materials delivered. If a supplier proposes a substitute for any material, the proposed substitution shall be submitted to the ENGINEER for approval prior to purchasing or commencing any work involving use of the proposed substitute material. Supplier shall supply specified materials if the proposed substitution is not approved by the ENGINEER.

All sawn timber and glued-laminated timbers shall be incised. Excessive incising that cause's structural damage to the wood shall be rejected and replaced at no additional cost to the OWNER. Excessive incising is defined as undue incision depths and incision density per area of timber when preservative retention has been achieved. Evidence of excessive incising shall be timber flaking or shipping due to lightly scuffing the timber surface. In no case shall incising exceed the maximums allowed by the National Design Specification for wood construction (NDS), section 4.3.8

A. All glued-laminated members shall be manufactured with Coast Region Douglas Fir that conforms to AITC Standard No. 117-87 specifications and shall be manufactured in balanced combinations having equal design values for both the positive and negative bending. The glulam members shall have an industrial finish, shall be for exterior use and have design values equal to or exceeding the following:

Bending (Fbx) = 2,400 psi
Bending (Fby) = 1,550 psi
Horizontal Shear (Fv) = 265 psi
Modulus of Elasticity (E) = 1,700,000 psi

Unless otherwise noted, all glued-laminated timbers shall be pressure treated with creosote per current AWPA U1 and T1 specifications to a minimum retention of 12 pounds per cubic foot. Fabrication and drilling of timber shall be completed as much as possible before pressure treatment. Field drilled holes, cuts and minor damaged areas shall be field treated per AWPA M-4, with an ENGINEER approved treatment product. Glued-laminated timber ends that have been field cut after treatment shall be scatter nailed with 3-inch copper nails at 2 inches on-center each way in addition to field treatment. Bolt holes shall be 1/8 inch oversized.

B. All sawn timber shall be surfaced four sides (S4S), unless otherwise noted on the Plans, and conform to No. 1 and better Coastal Region Douglas Fir, according to WWPA Grading Rules. No individual timber shall fall outside the specified grade. Each piece of lumber shall be stamped with a grade mark, which identifies the grading and certification, and shall be so marked as to be legible after pressure treatment. All sawn timber shall be pressure treated. Sawn timber located above waterline shall be pressure treated with ACZA per current AWPA U1 and T1 specifications to a net dry salt retention of not less than 0.6 pounds per cubic foot. Fabrication and drilling of timber shall be done as much as possible before pressure treatment. Field drilled holes, cuts and minor damaged areas shall be field treated per AWPA M-4, with an ENGINEER approved treatment product. Bolt holes shall be 1/8 inch oversized.

Deck timbers shall be S1S2E with 1/4-inch chamfered top edges. Only whole, full-width and full length deck timbers shall be installed on any float unit unless noted otherwise. Upon arrival to project site, gap widths between installed deck timbers shall be a minimum of 1/8-inch and a maximum of 3/8-inch. As much as possible, deck timbers shall be evenly spaced along entire length of float unit. CONTRACTOR shall determine total number of deck boards required to achieve the spacing requirements indicated above, and shall layout deck boards along entire length of each float unit prior to nailing of timbers. Aesthetics are important for deck timbers; consequently, fabricator shall

ensure deck material has minimal amount of wane. Deck timbers containing wane shall be installed with wane facing down and top face rough cut per specifications.

C. Miscellaneous steel plates and shapes shall be ASTM A572 Grade 50, galvanized per ASTM A123 or A153, and comply with Section 05120 - Metal Fabrication.

D. All fabricated metal weldments and assemblies including pipe hinges, transition plates, pile hoops, etc. shall comply with Section 05120 - Metal Fabrication.

E. Bolts, piano hinge connection rods, and miscellaneous hardware shall comply with Section 05120 – Metal Fabrication. Nylock nuts, double nuts, jam nuts or threadlock shall be used on all bolted connections where the bolt is in a vertical orientation in the final installed condition.

F. All Ultra High Molecular Weight (UHMW) Polyethylene components shall be manufactured from virgin polyethylene material, be U.V. stabilized and shall be partially cross-linked. UHMW components shall be black in color, unless otherwise noted, and edges chamfered as shown on Plans.

I. Pipe Hinge Rubber Bushings shall comply with the following requirements:

Property	**Requirement**	**ASTM Test**
Min. Tensile Strength	2500 psi Min.	ASTM D412
Hardness-Shore A Durometer	70 +/- 5	ASTM D2240
Ultimate Elongation	300%	ASTM D412
Compression Set	25% max.	ASTM D395, Method B
Ozone Resistance	No Cracks	ASTM D1171, Method B
Water Resistance	10% Max. Swell	ASTM D471
Low Temp. Resistance	Non-Brittle	ASTM D2137, Method A
Heat Resistance		ASTM D573
Max. Change in Hardness	+10 pts.	
Max. Change in Tensile Strg	-25%	
Max. Change in Ult. Elong.	-25%	
Tear Resistance	200 ppi Min.	ASTM D624

Physical Constraints. - Fit-up of each pipe hinge connection is critical. Rubber bushings must fit snugly into pipe segments to not allow appreciable movement within the pipe. Contractor shall coordinate with bushing manufacturer and metal fabricator to produce sample blocks, bushings and a sample pipe hinge segment assembly, complete with galvanized coating, and using pipe from the single batch of pipe proposed to be used for the project. This sample assembly shall be used to determine final pipe bushing outside diameter required to achieve a fit that is snug-tight within the galvanized pipe. Initially fabricated bushings may need to be machined, to achieve the final fit-up requirements. A sample bushing of the dimensions as determined by the method described above, complete with the required, pressed-fit UHMW sleeve, shall be submitted to the ENGINEER for approval prior to fabrication of bushings to be used for this project.

J. Finger float cleats. All cleats shall be SEADOG®LINE – Dock Cleat-Hex head. All cleats shall be 12” in length and weight approximately 10 lbs.

K. Finger Float Corner Bumpers shall be of polyester textile material, with closed-cell foam cushioning, as manufactured by *Perimeter Industries*, or approved equal. Color shall be white, size shall be large. Attachment of corner bumpers shall use Type 316 stainless steel fasteners. Size, location, and number of attachment fasteners per corner bumper shall be per manufacturer's recommendations

L. Polyethylene floatation tubs shall be as manufactured by *Den Hartog Industries, Inc.*, or approved equal, shall be one-piece rotational molded, with UV inhibitors, and be rectangular in shape with a minimum wall thickness of 0.175-inches and dimensions thickness as shown on the Plans. Submit drum manufacturer's material specifications and drawings to illustrate drum configuration, for ENGINEER approval.

M. Fiberglass cable tray shall be as manufactured by *MPHUSKY Corporation*, or approved equal. Cable tray shall be "ladder-type" 12-inches in width with 4-inch side rails, 3-inch loading depth, and 9-inch rung spacing (i.e. *MPHUSKY* Series 4). Cable tray shall be attached to each timber float stringer with galvanized or Type 318 stainless steel hardware and fasteners. Submit cable tray and mounting hardware specifications, along with any necessary drawings to illustrate cable tray segment lengths and proposed mounting method, for ENGINEER approval.

N. Non-Skid Coating. The top surfaces of all connection assemblies (i.e. pipe piano hinges) shall be coated per Section 09900 - Coatings.

O. Nylon Rod – Nylon rod for float hinge connections shall be NYLATRON® GS or engineer approved equivalent

P. All materials shall conform to good workmanship, acceptable industry standards and manufacturer's recommendations.

2.2 DELIVERY, STORAGE, AND PROTECTION

A. All timber shall be protected during transportation to and from treatment facilities. There shall be no mechanical damage to timbers from steel banding, handling, etc. Timber shall be stored above ground on pallets, platforms or other supports.

B. All other float materials shall be protected during shipping and handling. Materials shall be stored above ground on pallets, platforms or other supports, and be protected from excessive exposure to moisture prior to fabrication.

C. Protect float timber and flotation billets during handling and transport to jobsite.

PART 3 – EXECUTION

3.1 FABRICATION

A. Quality Assurance. The float Fabricator must have an ongoing quality assurance program approved by a qualified, independent source. At the option of the ENGINEER,

the Fabricator shall submit a copy of their operational quality assurance program, and shall not fabricate any floats until the ENGINEER has approved this quality assurance program. The objectives of the quality assurance program are as follows:

1. Completed products shall conform completely to all governing codes and specifications stipulated in the Design Contract Documents, and Plans.
2. Quality Assurance Program is an integral part of the ongoing manufacturing activities of the Fabricator.

Although periodic inspections will be carried out by the ENGINEER, the purpose of these inspections is to note general conformance to the design documents. It is still the responsibility of the fabricator to produce a quality product, in complete conformance with the design documents, and to document and correct any non-conformance. All documentation, including that submitted, shall be kept on file by the Fabricator, for review, if requested by the OWNER or ENGINEER.

Fabricator shall provide, to the ENGINEER, suitable documentation showing a minimum of three (3) previously successful float fabrication projects, including current names, addresses and contact numbers of the corresponding float owners.

B. Fabrication Facility. The fabrication facility shall provide the proper environment and physical conditions necessary for construction of high quality timber float units. The facility shall provide adequate work space, equipment, level working surfaces, and protection from direct sunlight, wind, and moisture. The Fabricator shall have the capability to carry out the following work in-house or on a contract basis:

- Design of lifting and erection devices not shown on the Drawings.
- Preparation of Shop Fabrication Drawings.
- Receiving, checking and storing of materials for the floats.
- Dimensional checking and verification.
- Resolution of non-conformities.
- Documentation of all stages of work with capability of tracing all major components.
- Handling, storing, shipping and delivery.

C. The float units shall be assembled as shown on the Plans. All float units shall be clearly identified with the date of manufacture, and specific float designation per Plans. Any float materials damaged during transport and delivery and/or during handling and fabrication operations shall be repaired or replaced by the Fabricator, at the discretion of the ENGINEER, and at no additional cost to the OWNER.

D. Walking surfaces of installed float units shall be level and flush with adjoining float units. Maximum height variation between adjoining surfaces shall be 1/8-inch.

E. Deck of overall float unit shall be within the following level tolerances under design dead load:

1. Maximum transverse freeboard differential for float units shall be one-half (0.5) inch.
2. Maximum longitudinal freeboard differential for float units shall be one-half (0.5) inch.

3.2 TRANSPORT AND DELIVERY

A. The CONTRACTOR shall assume full responsibility for any damages or losses resulting from the handling or transporting of float units and/or any float components during loading, shipping, transport and delivery to the fabrication and/or project site as well as the subsequent handling required on site for installation.

B. Any float unit and/or float components damaged during transport and delivery and/or during any other handling operations prior to final acceptance shall be repaired or replaced by the CONTRACTOR at the discretion of the ENGINEER and at no additional cost to the OWNER.

3.3 INSTALLATION

A. All new and salvaged float units/systems shall be installed as shown in the Plans and/or to the highest industry standards if not fully shown on the Plans. All float connections are designed to accommodate the required vessel loads only when installed as a complete float system, as shown on the Plans. Damage to the float connection hardware and float structure will occur if floats are installed and left in place without the proper support and support structures around them. The CONTRACTOR shall repair and/or replace, at the OWNER's preference, and at no additional cost to the OWNER, any float unit and/or float components damaged due to improper support during installation.

B. Steel mooring/anchor piles shall be installed through assembled float unit pile hoops as specified under SECTION 02896 – Steel Pipe Piles and as shown on the Plans. Float units shall be secured in true straight alignment prior to pile installations.

C. Construction methods and products not specifically mentioned in these Contract Documents shall be utilized using reasonable care and the highest quality construction practices. Final inspection and acceptance of all work and products not specifically mentioned in these Contract Documents shall be made by the ENGINEER. Approval shall be based upon conformance to the Contract Documents, quality of workmanship, applicable industry standards, and pertinent manufacturer's recommendations.

END OF SECTION

SECTION 02896 - STEEL PIPE PILES

PART 1 - GENERAL

1.1 DESCRIPTION

A. The WORK in this Section shall include all labor, materials, tools and equipment necessary to furnish and install all moorage float anchor piles including driving shoes, fiberglass caps, and all other related WORK in accordance with the requirements of the Contract Documents and as shown on the Plans.

1.2 REFERENCES

A. ASTM A252 - Welded and Seamless Steel Pipe Piles.

B. Steel Structures Painting Council (SSPC) - Steel Structures Painting Manual

C. ASTM A123 - Zinc (Hot Dipped Galvanized) Coatings on Iron and Steel Products

D. ASTM A385 – Standard Practice for Providing High-Quality Zinc Coatings (Hot-Dip)

E. ASTM A153 – Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware

F. AWS D1.1 - Structural Welding Code - Steel

1.3 SUBMITTALS

A. Manufacturer's Mill Certificate: Steel Certification including chemistry, yield strength, and mill numbers.

B. Shop Drawings for all fabricated items per Section 05120 – Metal Fabrication.

C. Welding Procedures: All weld metal proposed for use in the shop or in the field shall be submitted and approved for use prior to construction. The submittal shall contain all required information and the manufacturer’s recommendations for the use of the product on this project.

D. Welder Certificates: Certify welders employed in the WORK with AWS qualifications within the previous 12 months.

E. Pile Installation Plan: Provide narrative and illustrations as required to fully describe complete installation plan. The plan shall address, as a minimum, all equipment, labor, temporary pile support and template systems, survey control, sequence and method of installation.

F. Manufacturer’s information on pile hammers intended for use, complete with satisfactory data to ensure properly suited for installation of pipe piles.

G. Galvanizing certificates verifying that coated material conforms to Specifications.

H. Fiberglass Pile Caps: Submit manufacture product data sheet along with proposed

attachment method.

PART 2 - PRODUCTS

2.1 MATERIALS

A. All steel pipe piles shall be seamless or straight seam pipe conforming to ASTM A252, Grade 3, with ASTM A36 chemistry. Carbon Equivalency shall not exceed 0.45.

Spiral weld pipe may not be used.

B. All piles shall be hot-dip galvanized, full length, in accordance with ASTM A123 and A385, unless otherwise noted on the Plans.

C. All piles shall be supplied in the lengths specified, complete with driving shoe pile tips, as indicated on the Plans. Piles shall be delivered full length or field spliced, in accordance with approved welding and galvanizing repair procedures. Galvanized coatings damaged due to fabrication, welding, material handling or occurring during installation shall be repaired per Section 05120 – Metal Fabrication.

D. Miscellaneous steel plates, shapes and fabricated metal weldments shall be ASTM A572 Grade 50, hot-dip galvanized per ASTM A123 or A153, and comply with Section 05120 – Metal Fabrication.

PART 3 – EXECUTION

3.1 INSTALLATION

A. The CONTRACTOR shall submit a plan for pile driving. The plan shall include pile hammer type and driving method for all pile types, as well as manufacturers' recommendations and information on hammer cushion. The CONTRACTOR shall not mobilize hammers and related equipment prior to receiving written approval of the plan. The CONTRACTOR should allow one week for review of the plan by the ENGINEER. All driving methods shall meet the requirements of the PERMITS issued for this project.

B. All float piles shall be driven with a vibratory hammer, APE 200 or equivalent. The CONTRACTOR shall have an impact hammer onsite for driving and of piles that cannot achieve design penetration with a vibratory hammer. The impact hammer shall have a minimum rated energy of 25,000 ft-lbs. The CONTRACTOR shall have suitable equipment on site to extract piles that do not meet the location tolerances specified. Any hammer that causes damage to the piles during driving operations shall be substituted with an acceptable, alternate hammer at no additional expense to the OWNER. Impact hammers shall be supplied with new cap block cushions, which shall be changed at the manufacturer's recommended cycle.

B. Piles shall be installed within 0.5% of specified vertical alignment and within 1 inch of specified location at cutoff. Misaligned or mislocated piles shall be extracted by the CONTRACTOR and shall be reinstalled at no additional cost to the OWNER. The CONTRACTOR shall have suitable equipment on site to extract piles that do not meet

the location tolerances specified.

E. All pile installations shall be conducted with the ENGINEER present. The CONTRACTOR shall assist the ENGINEER in monitoring the pile driving. The CONTRACTOR shall mark each pile with one-foot increments, with every five-foot increment numbered. The marks shall be visible and readable from all sides of the pile.

F. All float mooring piles shall be installed at planned locations, through the pile hoops to assure that the floats move freely along the piles throughout the entire tidal range. Any pile installed in a manner that causes binding between the pile and pile hoop shall be extracted and re-driven at no additional cost to the OWNER. Forcing of piles to achieve required alignment will not be allowed. Minimum pile lengths and embedment requirements shall be as specified on the Plans. A vibratory hammer shall be utilized for driving unless refusal occurs prior to complete embedment being achieved. The CONTRACTOR shall drive the remaining pile to desired embedment with the impact hammer specified above.

G. The CONTRACTOR shall furnish and install new fiberglass caps in accordance with the manufacturer's recommendations for each float mooring pile as indicated on the Drawings.

H. All steel pipe pile cutoffs greater than five feet in length shall become the property of the OWNER. The CONTRACTOR shall remove the pipe from the project site and shall neatly stack the pipe, as approved by the OWNER, at a location within five miles of the site.

END OF SECTION

SECTION 02897 – SUPPLEMENTAL FLOATATION

PART 1 - GENERAL

1.1 DESCRIPTION

A. The WORK in this Section shall include all labor, materials, tools and equipment necessary to furnish and install supplemental polyethylene floatation tubs, and all other associated WORK in accordance with the requirements of the Contract Documents and as indicated on the Plans.

1.2 REFERENCES

A. ASTM (American Society of Testing Materials) Specifications

1.3 SUBMITTALS

A. Product Data: Submit manufacturer's published literature for specific product including material specifications, drawings illustrating overall dimensions, typical sections and wall thickness, and fabrication and dimensional tolerances.

B. Installation Plan: The CONTRACTOR shall submit a plan for installation of floatation tubs. Provide a narrative and drawings for installation of floatation tubs beneath floats at locations determined by the ENGINEER for leveling of floats.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Polyethylene floatation tubs shall be as manufactured by *Den Hartog Industries, Inc.*, or approved equal, shall be one-piece rotational molded, with UV inhibitors, and be rectangular in shape with a minimum wall thickness of 0.175-inches and dimensions thickness as shown on the Plans. Submit drum manufacturer's material specifications and drawings to illustrate drum configuration, for ENGINEER approval.

B. Full size floatation tubs shall be 24x96x08 (width x length x depth, in.). Half size floatation tubs shall be 24x48x08(width x length x depth, in.)

PART 3 – EXECUTION

3.1 TRANSPORT AND DELIVERY

A. The CONTRACTOR shall assume full responsibility for any damages or losses resulting from the handling or transporting of all floatation tubs during loading, shipping, transport and delivery to the project site as well as the subsequent handling required on site for installation.

B. Damage that occurs during transport and delivery and/or during any other handling operations prior to final acceptance shall be repaired or replaced by the CONTRACTOR at the discretion of the ENGINEER and at no additional cost to the OWNER.

3.3 INSTALLATION

A. The CONTRACTOR shall supply floatation tubs per Specifications, in dimensions and quantities indicated in the Contract Documents.

B. The CONTRACTOR shall submit a plan for installation of floatation tubs. The plan shall include methods for removal of marine growth necessary to achieve a uniform bearing surface, as well as placement methodology for floatation tubs. Marine growth may be removed mechanically or hydraulically, without damaging existing float components, to achieve stable, secure positioning of floatation tubs. Tubs shall be secured to moorage float structural members with ENGINEER approved "straps" in quantity and configuration as deemed necessary by ENGINEER.

C. The CONTRACTOR shall install the floatation tubs, as necessary, to achieve desired leveling of the floats. Installation locations for the floatation billets shall be determined by the ENGINEER, in the field, after all electrical equipment, transition plates, gangways, water, power and lighting elements have been installed.

D. All remaining floatation billets not installed shall remain the property of the OWNER. The CONTRACTOR shall deliver and neatly stack all surplus floatation tubs to a location to be chosen by the OWNER within five miles of the project site.

END OF SECTION

SECTION 02898 – FLOAT TRANSITION ASSEMBLIES

PART 1 - GENERAL

1.1 DESCRIPTION

A. The WORK in this Section shall include all labor, materials, tools and equipment necessary for fabrication, transport, delivery, and installation of the transition plate assemblies, all miscellaneous appurtenances and hardware, and all other related WORK in accordance with the requirements of the Contract Documents and as indicated on the Plans.

1.2 REFERENCES

A. ASTM (American Society of Testing Materials) Specifications

1.3 SUBMITTALS

A. Fabrication Shop Drawings for all fabricated steel and aluminum items, prior to fabrication, per Section 05120 – Metal Fabrication.

B. Structural Steel Submittals per Section 05120 – Metal Fabrication.

C. Aluminum Submittals per Section 05120 – Metal Fabrication.

D. Welding Procedures and Welder Certifications per Section 05120 – Metal Fabrication.

1.4 QUALITY ASSURANCE

A. Quality Assurance shall be per Section 05120 – Metal Fabrication.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Miscellaneous steel plates and shapes shall be ASTM A572 grade 50, galvanized per ASTM A123 or A153, and comply with Section 05120 – Metal Fabrication.

B. All aluminum plate and shapes shall comply with Section 05120 – Metal Fabrication.

C. Bolts, and miscellaneous hardware shall comply with Section 05120 – Metal Fabrication

D. Steel grating shall be 1-3/4” x 3/16” AMICO® 19-W-2 or Engineer approved equivalent. All steel grating shall have a serrated walking surface and be hot dip galvanized. Install per manufacturer’s recommendations.

E. All materials shall conform to good workmanship, acceptable industry standards and manufacturer’s recommendations.

2.2 DELIVERY, STORAGE, AND PROTECTION

A. Delivery, Storage, and Protection shall be per Section 05120 – Metal Fabrication.

PART 3 – EXECUTION

3.1 FABRICATION – Per Section 05120 – Metal Fabrication.

A. The complete float transition plate assemblies shall be constructed as shown on the Plans. Any materials damaged during transport and delivery and/or during handling and fabrication operations shall be repaired or replaced by the Fabricator, at the discretion of the ENGINEER, and at no additional cost to the OWNER.

3.2 TRANSPORT AND DELIVERY

A. The CONTRACTOR shall assume full responsibility for any damages or losses resulting from the handling or transporting of the float transition plate assemblies during loading, shipping, transport and delivery to the project site as well as the subsequent handling required on site for installation.

B. Damage that occurs during transport and delivery and/or during other handling operations prior to final acceptance shall be repaired or replaced by the CONTRACTOR at the discretion of the ENGINEER and at no additional cost to the OWNER.

3.3 INSTALLATION

A. The complete float transition plate assemblies shall be installed as shown in the Plans and/or to the highest industry standards if not fully shown on the Plans.

B. Construction methods and products not specifically mentioned in these Contract Documents shall be utilized using reasonable care and the highest quality construction practices. Final inspection and acceptance of all WORK and products not specifically mentioned in these Contract Documents shall be made by the ENGINEER. Approval shall be based upon conformance to the Contract Documents, quality of workmanship, applicable industry standards, and pertinent manufacturer's recommendations.

END OF SECTION

SECTION 03302 - MINOR CONCRETE STRUCTURES

PART 1 - GENERAL

1.1 DESCRIPTION

A. The WORK under this Section includes providing all labor, materials, tools and equipment necessary for furnishing and installing minor concrete structures including pipe weights, pipe anchors, and thrust blocks in accordance with these specifications and in reasonably close conformity with the lines, grades, details, and locations shown on the plans or established by the ENGINEER.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Portland Cement shall conform to the requirements of AASHTO M 85.

B. Aggregate shall be clean, durable, uniformly graded sand and gravel, or crushed stone, 100 percent passing a 1 1/2 inch sieve and containing not more than 5 percent passing a U.S. No. 200 sieve.

C. Air-entraining admixtures shall conform to the requirement of AASHTO M 154.

D. Curing materials shall conform to the requirements of AASHTO M 182, AASHTO M 171, or AASHTO M 148, as appropriate; except that AASHTO M 148 is modified to prohibit use of compounds utilizing linseed oil.

E. Reinforcing Steel shall conform to the requirements of AASHTO M 31.

F. Welded Wire Fabric shall conform to the requirements of AASHTO M 55.

G. Joint Fillers shall be of the type specified in the contract, and shall conform to the appropriate following requirements:

1. Poured filler - AASHTO M 173 or AASHTO M 282 as specified.
2. Preformed filler - AASHTO M 213
3. Hot-poured sealant - ASTM D 3405
4. Hot-poured elastomeric type sealant - ASTM D 3406

H. “Concrete International Corporation” Ashford formula or approved equal shall be used instead of the specified curing materials.

2.2 COMPOSITION OF CONCRETE

A. Portland cement concrete will ordinarily be accepted on the basis of certification.

B. The concrete shall contain 4 to 7 percent of entrained air, as determined by AASHTO T 152. Concrete shall have a slump of not more than 4 inches as determined by AASHTO T 119.

C. Concrete shall contain not less than 611 pounds of cement and not more than 300 pounds of water per cubic yard.

D. The concrete shall develop a minimum compressive strength of 4,000 psi in 28 days.

E. The concrete shall be subject to acceptance or rejection by visual inspection at the job site. Retempering concrete will not be permitted.

F. When a commercial supplier is used the CONTRACTOR shall furnish a certification with each truck load of concrete certifying that the material and mix proportions used are in conformance with the approved mixture.

H. The ENGINEER may make and test cylinders for strength determinations.

2.3 FORMS

A. Forms shall be designed and constructed to be removed without injuring the concrete. They shall be free of bulge and warp, and constructed so the finished concrete will be of the form and dimensions shown on the plans, and true to line and grade. Forms for concrete containing a retarding admixture shall be designed for a lateral pressure equal to that exerted by a fluid weighing 150 pounds per cubic foot.

PART 3 - EXECUTION

3.1 PLACING CONCRETE

A. Concrete shall be placed to avoid segregation of materials and consolidated with mechanical vibrators.

B. When concrete is placed by the pumping method or by tremie operations, the use of aluminum pipe or conduit for transporting the concrete will not be permitted.

C. The intervals between deliveries of batches for a single pour shall not exceed 30 minutes.

D. When placing concrete at or below an atmospheric temperature of 35°F the CONTRACTOR shall comply with the applicable requirements of ACI 306.

3.2 FINISHING CONCRETE SURFACES

A. All concrete surfaces shall be finished in accordance with the requirements of ACI 318.

3.3 CURING CONCRETE

A. All concrete will be cured a minimum of 7 days, or, if high early strength cement is used, a minimum of 3 days. The concrete shall be cured in accordance with ACI 318.

END OF SECTION

SECTION 05120 – METAL FABRICATION

PART 1 - GENERAL

1.1 DESCRIPTION

A. The WORK in this Section shall include all labor, materials, tools and equipment necessary to fabricate and install all structural steel and aluminum in accordance with the requirements of the Contract Documents and as indicated on the Plans.

1.2 REFERENCES

A. AISC (American Institute of Steel Construction) Code of Standard Practice - Manual of Steel Construction - Allowable Stress Design (ASD).

B. ASTM (American Society of Testing Materials) Specifications

C. ASTM A6 – General Requirements for Rolled Steel Plates, Shapes, Sheet Piling, and Bars for Structural Steel.

D. ASTM A36/A36M - Structural Steel.

E. ASTM A108 – Steel Bars, Carbon Cold-Finished, Standard Quality.

F. ASTM A123 - Zinc (Hot Dipped Galvanized) Coatings on Iron and Steel Products.

G. ASTM A153 - Zinc Coating (Hot Dip) on Iron and Steel Hardware.

H. ASTM A325 - High Strength Bolts for Structural Steel Joints.

I. ASTM A500 - Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Round and Shapes.

J. ASTM A53 – Steel Pipe.

K. ASTM A572 – High-Strength Low-Alloy Columbium-Vanadium Steels of Structural Quality.

L. ASTM F593 – Stainless Steel Bolts, Hex Cap Screws, and Studs.

M. ASTM F594 – Stainless Steel Nuts.

N. ASTM A673 – Sampling Procedure for Impact Testing of Structural Steel.

O. ASTM A27 – Steel Castings, Carbon, for General Application.

P. AWS D1.1 - Structural Welding Code - Steel.

Q. The Aluminum Association – Aluminum Design Manual: Specifications and Guidelines for Aluminum Structures.

R. ASTM B209 – Standard Specifications for Aluminum and Aluminum-Alloy Sheet and Plate.

S. ASTM B210 – Standard Specifications for Aluminum and Aluminum-Alloy Drawn Seamless Tube.

T. ASTM B221 – Standard Specifications for Aluminum and Aluminum-Alloy Bar, Rod, Wire, Profiles and Tubes.

U. ASTM B241 – Standard Specifications for Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Tube.

V. ASTM B308 – Standard Specifications for Aluminum and Aluminum-Alloy 6061-T6 Standard Structural Profiles.

W. AWS D1.2 - Structural Welding Code - Aluminum.

X. SSPC (Steel Structures Painting Council) – Painting Manual

Y. SSPC Guide 23 for Spray Metalizing.

1.3 SUBMITTALS

A. Fabrication Shop Drawings of all fabricated steel and aluminum items prior to fabrication.

1. Indicate welds by standard AWS symbols, distinguishing between shop and field welds, and show size, length and type of each weld.
2. Include details of cuts, connections, splices, camber, holes, and other pertinent data.
3. Indicate type, size and length of bolts, distinguishing between shop and field bolts. Identify high-strength bolted slip-critical, direct-tension, or tensioned shear/bearing connections.

B. Manufacturer's Mill Certificate: Steel certification for all steel used shall include chemistry, yield strength, and mill numbers.

C. Galvanizing Certifications.

D. Galvanizing Repair Method and Materials.

E. Welding Procedures.

F. Welders Certificates: Certify welders employed in the work, verifying AWS qualification within the previous 12 months.

G. Provide fabrication shop QA/QC Plan for review by ENGINEER. Provide qualification data for firms and/or persons to demonstrate their capabilities and experience. Include lists of projects with project names and addresses, and names and addresses of engineers, architects and owners.

H. Manufacturer’s certification for steel castings.

1.4 QUALITY ASSURANCE

A. Fabricate and install structural steel in accordance with AISC Code of Standard Practice.

B. Fabricate and install aluminum in accordance with Aluminum Association Aluminum Design Manual.

C. Installer Qualifications: Engage an experienced Installer who has completed structural steel work similar in material, design, and extent to that indicated for this Project and with a record of successful in-service performance.

D. Fabricator Qualifications: Engage a firm experienced in fabricating structural steel similar to that indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to fabricate structural steel without delaying the WORK. Fabricator shall be an ICBO "Approved Fabricator" as defined in Section 1701.7 of the 1997 Edition of the Uniform Building Code or an AISC Certified Fabricator.

E. Quality Assurance. The metal fabricator must have an ongoing quality assurance program approved by a qualified, independent source. At the option of the ENGINEER, the fabricator shall submit a copy of their operational quality assurance program, and shall not begin fabrication until the ENGINEER has approved this quality assurance program. The objectives of the quality assurance program are as follows:

1. Completed products shall conform completely to all governing codes and specifications stipulated in the Design Contract Documents, and Plans.

2. Quality Assurance Program is an integral part of the ongoing manufacturing activities of the Fabricator.

Although periodic inspections will be carried out by the ENGINEER, the purpose of these inspections is to note general conformance to the design documents. It is still the responsibility of the fabricator to produce a quality product, in complete conformance with the design documents, and to document and correct any non-conformance. All documentation, including that submitted, shall be kept on file by the fabricator, for review, if requested by the OWNER or ENGINEER.

F. Fabrication Facility. The fabrication facility shall provide the proper environment and physical conditions necessary for welding, cutting, and general metal fabrication. The facility shall provide adequate work space, equipment, level surfaces, and protection from wind, moisture and freezing. The fabricator shall have the capability to carry out the following work in-house or on a contract basis:

- Design of lifting and erection devices not shown on the drawings.
- Preparation of shop fabrication drawings.
- Receiving, checking and storing of materials for metal fabrication.
- Dimensional checking and verification.
- Resolution of non-conformities.
- Documentation of all stages of work with capability of tracing all major components.
- Finishing, repairing, storing and shipping.

G. Fabricator Qualifications: Fabricator must have completed metal fabrication work similar in material, design, and extent to that indicated for this Project, and with a record of successful in-service performance.

H. Welding Standards: Comply with applicable provisions of AWS D1.1 Structural Welding Code - Steel and AWS D1.2 Structural Welding Code – Aluminum.

1. Present evidence that each welder has satisfactorily passed AWS qualification tests for welding processes involved and, if pertinent, has undergone recertification.

2. Submit welding procedures in accordance with AWS Structural Welding Codes.

1.5 DELIVERY, STORAGE AND HANDLING

A. Deliver materials to Fabricator's shop in such quantities and at such times to ensure continuity of installation.

B. Store materials to permit easy access for inspection and identification. Keep materials off ground by using pallets, platforms, or other supports. Protect steel members and packaged materials from erosion and deterioration.

1. Store fasteners in a protected place. Clean and re-lubricate bolts and nuts that become dry or rusty before use.

2. Do not store materials or assembled structures in a manner that might cause distortion or damage to members or supporting structures. Repair or replace damaged materials or structures as directed at no additional cost to the OWNER.

PART 2 - PRODUCTS

2.1 MATERIALS - All materials for metal fabrication shall conform to the Design Contract Documents and as shown on the Design Plans. Purchase orders shall contain all necessary information to verify that materials purchased comply with the fore mentioned documents. The Fabricator shall inspect all materials, upon arrival, for conformance with the purchase orders. The Fabricator shall confirm that mill certificates and test reports are provided and that they correctly identify the materials delivered. If a supplier proposes a substitute for any material, the proposed substitution shall be submitted to the ENGINEER for approval prior to commencing any WORK involving use of the proposed substitute material. Supplier must be prepared to supply materials as identified on the design documents if the proposal for a substitution is not approved by the ENGINEER.

A. Miscellaneous steel shapes and all plate steel shall be ASTM A572 Grade 50, hot-dip galvanized.

B. Structural steel tubes shall be ASTM A500 Grade B, hot-dip galvanized.

C. Steel pipe shall be ASTM A53, Grade B, Type E or S, hot-dip galvanized.

D. Bolts and Miscellaneous Hardware: Unless otherwise noted, all bolts shall be ASTM A307, hot-dip galvanized. Round plate or MI washers shall be hot-dip galvanized and shall be used in all areas where the bolt head or nut bear against wood, except under

economy head bolts. Anti-Seize lubricant shall be used on all bolts that do not have thread lock. All bolts, piano hinge connection rods, nuts, washers, and miscellaneous hardware called out as Stainless Steel shall be Type 316 Stainless Steel. All bolts called out as ASTM A325 shall be hot-dip galvanized. Washers shall be used in all areas where the bolt head or nut shall bear against oversized holes in steel (i.e. more than 1/16 inch larger than bolt diameter). All nails shall be hot-dip galvanized. Nylock nuts, double nuts, jam nuts or threadlock shall be used on all bolted connections where the bolt is in a vertical orientation in the final installed condition.

E. Aluminum shall conform to 6061-T6, unless otherwise noted. Aluminum for water pedestals shall be 6063-T6.

2.2 METAL COATINGS

A. Unless otherwise noted, all steel shall be hot-dip galvanized in accordance with ASTM A123 or A153 as appropriate.

B. Non-skid coating shall be in accordance with Section -09900 - Coatings

PART 3 - EXECUTION

3.1 METAL FABRICATION

A. Shop Inspection: The CONTRACTOR shall furnish the ENGINEER with 30 days notice of the beginning of WORK at the mill or in the shop so that special fabrication inspections may be scheduled by the ENGINEER.

B. Fabricate and assemble components in a shop, to greatest extent possible. Workmanship and finish shall be equal to the best industry standards and in accordance with the requirements of AWS, AISC, and The Aluminum Association, as applicable.

1. Mark and match-mark materials for field assembly.
2. Fabricate for delivery in a sequence that will expedite erection and minimize field handling.
3. Thermal Cutting: Perform thermal cutting by machine to greatest extent possible.
4. Holes: Drill holes perpendicular to metal surfaces; do not flame-cut holes or enlarge holes by burning.
5. Aluminum Fabrication: Edges shall be cut true, smooth and free of burrs. Flame cutting is not permitted. Corner edges shall be ground smooth. Holes shall be drilled or punched. Weld spatter and flash marks shall be removed and ground smooth. Mill stamps and markings shall be removed from all exposed surfaces.

C. Structural material, either plain or fabricated, shall be stored at the fabricating shop above ground, on platforms, skids or other supports. It shall be kept free from dirt, grease or other foreign matter, and shall be protected, as far as practical, from corrosion.

D. All holes required for steel galvanizing shall be fully repaired per AWS D 1.1 at no additional cost to the OWNER.

3.2 METAL ERECTION

A. General. The CONTRACTOR shall provide and later remove all falsework, temporary shoring, and bracing necessary for erection and to complete assembly. All such devices shall be properly designed and constructed by the CONTRACTOR to meet anticipated construction and handling loads.

B. Handling and Storing of Materials. Material to be stored shall be placed on skids above the ground. It shall be kept clean and properly drained. Girders and beams shall be placed upright and shored. Handling and erection procedures shall be conducted in a manner to avoid over stressing any structural element. Stress and deflection calculations shall be provided by the CONTRACTOR, as deemed necessary by the ENGINEER, for any erection procedure.

C. Method and Equipment. Before starting the WORK of erection, the CONTRACTOR shall inform the ENGINEER fully as to the method of erection proposed, and the amount and character of equipment proposed to be used. Approval by the ENGINEER shall not be considered as relieving the CONTRACTOR of the responsibility for the safety of his method and equipment, or from carrying out the WORK in full accordance with the Plans and Specifications.

D. Assembling. Metal parts shall be accurately assembled as shown on the Plans, following applicable Industry Standards, Codes, erection drawings and fabricators' match-marks. Excessive force or manipulation of parts shall not be allowed as determined by the ENGINEER. The material shall be carefully handled so that no parts will be bent, broken, or otherwise damaged. Hammering, which will injure or distort the members will not be permitted. Bearing surfaces shall be cleaned before the members are assembled.

F. Bolt Holes and Bolting. Bolt holes and bolting shall follow the requirements as stated on the Plans and as indicated by applicable Industry Standards and Codes. Any steel to steel connections noted to be considered "slip-critical" shall be installed by the "turn-of-nut" tightening method per AISC. In addition to the requirements of AISC, bolting of slip-critical joints shall proceed in the following manner:

1. The joint shall be fitted up and aligned with drift pins.
2. Sufficient force shall be applied so as to bring the faying surfaces of steel into close contact. If high strength bolts are used for this purpose (i.e. used to pull steel into position), they shall be clearly marked for identification, and not used in the final connection.
3. High strength bolts shall be installed and brought up to snug-tight condition, such as can be produced by a few blows of an impact wrench, or by an ordinary spud wrench.
4. High strength bolts shall then be tightened by turn-of-nut method, progressing from the most rigid part of the joint toward the free edges.
5. Bolts used to pull steel into position (mentioned above) shall then be removed, replaced with high strength bolts, and tightened as described above.
6. The impact wrench used for bolt tightening shall be of adequate capacity so as to provide the required tightening in approximately 10 seconds.
7. Bolt lengths shall be such that 0" to ¼" of the bolt shall extend past the end of the nut after tightening.

F. All welding shall be in accordance with AWS D1.1 or AWS D1.2, as applicable. All welders shall be qualified per AWS for the type of welding anticipated. Welds will be spot tested by the ENGINEER by VT, MT, or UT and any welds which fail shall be repaired at the CONTRACTOR's expense, which will also include all costs for retesting. No welding through galvanized coatings will be performed. The galvanizing within one inch of the weld shall be removed and repaired, after welding, according to these Specifications. All weld metal shall have chemistry similar to the base metal and shall have a minimum Charpy Impact Test Value of 20 ft-lbs. at –20 degrees F.

G. Galvanized coatings damaged due to fabrication, welding, material handling or occurring during installation shall be repaired by the CONTRACTOR at no additional cost to the OWNER. Shop repair of damaged galvanizing shall be performed by spray metalizing. Field repair of damaged galvanizing in areas in excess of 100 square inches shall be performed by spray metalizing. Field repair for areas less than 100 square inches may performed using the following hot-applied repair stick method in lieu of spray metalizing:

1. Repair sticks shall be zinc-cadmium alloys (melting point 518° - 527°F) such as "Rev-Galv", or zinc-tin-lead alloys (melting point 446° - 500°F) such as "Galv-Weld", "Zilt", and "Galv-over". The zinc-tin -lead alloys shall comply with U.S. Federal Specification O-G-93 and contain fluxing agents.
2. Remove welding slag by chipping hammer and clean weld or damaged area by vigorous wire brushing.
3. Preheat the region to be repaired by means of an oxyacetylene torch or other convenient method to between 600°F and 750°F. The alloys do not spread well at temperatures lower than 600°F. Also as temperatures rise above 600°F increasing amounts of dross form.
4. Wire brush surface again.
5. Apply coating by rubbing bar of the alloy over the heated surface while it is hot enough to melt the alloy.
6. Spread the molten alloy by briskly wire brushing or rubbing with a flat edge strip of steel or palette knife.
7. Remove flux residues by wiping with a damp cloth or rinsing with water.
8. Brush apply two coats zinc rich paint, ZRC or equal (cold galvanize repair).

END OF SECTION

SECTION 09900 - COATINGS

PART 1 - GENERAL

1.1 DESCRIPTION

A. The WORK in this section shall include all labor, materials, tools and equipment necessary for surface preparation and application of all metal coatings, and all other miscellaneous associated work, in accordance with the requirements of the Contract Documents and as shown on the Plans.

1.2 REFERENCES

A. ASTM (American Society of Testing Materials) Specifications

B. ASTM A123 - Zinc (Hot Dipped Galvanized) Coatings on Iron and Steel Products.

C. ASTM A153 - Zinc Coating (Hot Dip) on Iron and Steel Hardware.

D. ASTM A385 - Standard Practice for Providing High-Quality Zinc Coatings (Hot-Dip)

E. SSPC (Steel Structures Painting Council) - Steel Structures Painting Manual.

F. SSPC CS-23.00/AWS C2.23M/NACE No. 12- Specification for the Application of Thermal Spray Coatings (Metallizing) of Aluminum, Zinc and Their Alloys and Composites for the Corrosion Protection of Steel

1.3 SUBMITTALS

A. Product Data: Provide product data and/or technical specifications including manufacturer's instructions for surface preparation, required environmental conditions, etc., for all metal coating products.

B. Samples: Submit (2) samples demonstrating color and texture for each proposed metal coating product.

C. Coating Repair Methods and Materials: CONTRACTOR'S proposed repair methods, procedures and materials for all metal coatings damaged as a result of shipping, handling, welding or by other means.

D. CONTRACTOR shall submit a Quality Plan for preparation and application of metal coatings for all project components specified to be coated. Quality Plan shall address solvent cleaning, blasting, surface profile standards, stripe coat and primer coat application, finish coat applications, coating thickness measurement and documentation, adhesion pull test procedures, independent inspection and documentation, as well as handling and transport methods.

PART 2 - PRODUCTS

2.1 GALVANIZING

A. All steel components shall be hot-dip galvanized, unless otherwise noted. Galvanizing shall be per ASTM A123, A385 or A153, as appropriate.

2.2 THERMAL SPRAY METALLIC COATING

A. Shall conform to AWS C2.23

B. Thermal Spray Metallic Coating shall be with 85%zinc/15%aluminum to a minimum dry coating thickness of 12 mils.

2.3 NON-SKID

A. Metal surfaces specified to be Non-Skid shall be thermal arc-sprayed with TH604 and/or TH605, as manufactured by *Thermion*, to achieve a very aggressive surface profile. Blast surface and prep as required by Non-Skid coating manufacturer, prior to Non-Skid coating application. The following items shall have Non-Skid coatings:

1) All surfaces of connection assemblies, and all other surfaces identified on the Plans to have non-skid surface.

PART 3 - EXECUTION

3.1 PREPARATION AND APPLICATION

A. Galvanizing shall be per ASTM A123, A385 or A153, as appropriate. Galvanizing shall be performed after fabrication, and all holes required for galvanizing shall be repaired per AWS D1.1, and in accordance with Sub-Section 3.2, unless otherwise approved by the ENGINEER.

B. All spray metallizing shall be performed AWS C2.23-2003. Steel substrate shall be prepared to SSPC-SO/NACE No.1 white metal blast finish with a minimum angular profile depth of 2.5 mils. Blast media shall be Kleen blast size 16-30 as manufactured by Kleen Industrial Services (800-227-1134) or Engineer approved equal. After blasting remove dust and spent abrasive from the surface by using oil-free pressurized air, brushing, or vacuum cleaning. The steel surface temperature shall be at least 5 degrees f above the dew point of the ambient air temperature. For flamespraying the initial starting area shall be preheated to 250 degrees F. Feedstock shall be 85/15 aluminum/zinc applied in several passes (approximately 2-4 mils/pass) to a minimum dry coating film thickness of 12 mils. During application, spray gun shall be held perpendicular to the substrate at a stand-off distance of 6 to 10 inches. The CONTRACTOR shall periodically verify pass and total coating thicknesses. Tensile bond strength shall measured per ASTM D4541 at the start of each shift, after any change to the application method, or every 500 sf. The minimum tensile bond shall be 700 psi. Field metallizing shall be bond tested by an OWNER's

REPRESENTATIVE with the CONTRACTOR'S assistance. CONTRACTOR shall submit metallizing equipment, blast media, feedstock material certification, application and quality control method for ENGINEER review and approval.

C. Metal surfaces specified to be Non-Skid shall be prepared per coating manufacturer's recommendations and submitted Quality Plan. Coating thickness shall be 10 mils minimum. Seal and top coat per manufacturer's recommendations.

3.2 COATING REPAIRS

A. CONTRACTOR shall submit metal coating repair methods and procedures for review and approval by the ENGINEER, prior to fabrication or mobilization of any equipment and materials. Galvanized and/or Thermal Spray Metallic Coatings damaged due to fabrication, welding, material handling or occurring during installation shall be repaired per Section 05120 – Metal Fabrication.

END OF SECTION

IX. Appendices

CONTRACTOR'S REQUEST FOR PAYMENT

To Be Completed By Contractor	To Be Completed By Engineer If Adjustment Recommended
Owner: _____	City of Homer PO# _____
Contractor: _____ NO: _____ Period: _____	
Project: _____ Contract No.: _____ Page _____ of _____	Project # _____

Original Contract Amount	$ -		$
Amount Of Approved Change Orders	$ - (add or subtract)		$
Authorized Contract Amount	$ -		$
Bid Items Completed to Date	$ -		$
Change Orders Completed to Date	$ -		$
Materials on Hand	$ -		$
Total Amount Completed To Date		$	$
Contract Retainage Amount _____ %	$ -	$	$
This Request _____ %	$ -	$ (add or subtract)	$ (add or subtract)
		$	$
Total Amount Due to Date:		$ -	$ -
Less Previous Payments:	(subtract)	$ -	(subtract) $ -
Amount Requested This Period		$ -	$ -

We hereby represent that the above is a true estimate of work completed under the above contract to date and hereby release the Owner from any claims for materials or labor furnished ro expense included in requests for payment to date, except for integrated units of construction partially completed for which no request for payment has been made.

CONTRACTOR: _____ Date: _____

By: _____ TITLE: _____

Quantities Verified: Date: _____

Resident Engineering Representative

Request Verified: Date: _____

Project Engineer

Payment Approved $ _____ ORD.(RES) NO. _____

Owner's Official: _____ Date: _____

Title: _____

RECOMMENDED FOR PAYMENT:

Publlic Works Director

CONTRACTOR'S REQUEST FOR PAYMENT

OWNER: _____ **TO BE COMPLETED BY CONTRACTOR**

CONTRACTOR: _____ NO: _____ PERIOD _____

PROJECT: _____ CONTRACTOR NO: _____ PAGE _____ OF _____

TO BE COMPLETED BY ENGINEER

AMOUNTS RECOMMENDED

Bid Item No:	Discription	Unit	Unit Price	Estimated Contract		Previously Approved		This Request		Total To Date		This Request		Total to Date	
				Quan.	Dollars	Quan.	Dollars	Quan.	Dollars	Quan.	Dollars	Quan.	Dollars	Quant.	Dollars

pubwrks/admin/standard docs/contractor's pay request

REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, ALASKA
REGULATORY DIVISION
805 FRONTAGE ROAD, SUITE 200C
KENAI, ALASKA 99611-7755

August 21, 2013

Regulatory Division
POA-1981-465

Mr. Carey Meyer
City of Homer
3575 Heath Street
Homer, AK 99603

Dear Mr. Meyer:

This is in response to your May 3, 2013, application for a Department of the Army (DA) permit, submitted on your behalf by PND Engineers, Inc., to replace: 1) a portion of Headwalk A (from Ramp 2 to K Float); 2) J, R and S Floats; and, 3) Ramp 3 (gangway and trestle), in the Homer Small Boat Harbor. The existing timber floats (23,000 sf) will be removed, and replaced with 29,000 sf of new floats. A total of 55 treated pilings and 18 steel pilings will be removed, and replaced with 85 new steel pilings (12.75"-16" in diameter). Electrical and water service will be installed to Headwalk A and J Float. The project site is located within Section 1, T. 7 S., R. 13 W., and Section 36, T. 6 S., R. 13 W., Seward Meridian; Latitude 59.6039° N., Longitude 151.4246° W.; Kenai Peninsula Borough, Homer Small Boat Harbor, in Homer, Alaska. It has been assigned file number POA-1981-465, Kachemak Bay, which should be referred to in all future correspondence with this office.

The project schedule will take place between March 1, 2014, and April 31, 2014, or September 1, 2014, and October 31, 2014. All work will occur over, or below, the mean high water mark (MHWM, 17.3') of Kachemak Bay. The project does not include dredging or the discharge of fill material. Modifications to the replacement float layout include:

1) Headwalk A –
   a. Increase the length of the finger floats located on the southern edge of the float from 17' to 20'.
   b. Increase stall width to accommodate modern vessel width
   c. Incorporate four "party floats" (the width and length of two finger float stalls) for various harbor uses.
2) Floats –
   a. J Float layout modified to be similar to existing H float layout.
   b. R Float layout modified to include 24' finger floats with increased stall widths.
   c. S Float layout modified to include 32' and 24' finger floats with increased stall widths.
3) Ramp 3 –
   base design will include a landing float for the new 100' by 6' gangway, accessed by a new 52' trestle.

Based on our review of the information you furnished and available to us, we have determined the above project area contains waters of the United States (U.S.) under the Corps' regulatory jurisdiction. A copy of the Approved Jurisdictional Determination form is available at: www.poa.usace.army.mil/Missions/Regulatory/JurisdictionalDeterminations.aspx under the above file number).

This approved jurisdictional determination is valid for five (5) years from the date of this letter, unless new information supporting a revision is provided to us before the expiration date. Enclosed is a Notification of Administrative Appeal Options and Process and Request for Appeal form regarding this approved jurisdictional determination (see section titled "Approved Jurisdictional Determination").

DA permit authorization is necessary because your project would involve work in placement of structures into waters of the U.S. under our regulatory jurisdiction.

Based upon the information and plans you provided, we hereby verify that the work described above, which would be performed in accordance with the enclosed plan (sheets 1-6), dated April 12, 2013, is authorized by Nationwide Permit (NWP) No. 3, Maintenance. NWP No. 3 and its associated Regional and General Conditions can be accessed at our website at: www.poa.usace.army.mil/Missions/Regulatory/Permits.aspx. You must comply with all terms and conditions associated with NWP No. 3, as well as with the special conditions listed below:

1. For work that takes place between November 1st and April 31st, an observer shall be on-site 30-minutes prior to, and during, piling installation to look for Steller's eiders and a log of Steller's eider spottings shall be kept. At a minimum, the log shall contain the date and time, location of the Steller's eiders, the number of individuals, their behavior, and the action taken by construction crews. Seven days after construction completion, the log shall be provided to the Corps.

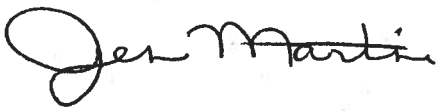
2. A sufficient number of buoys, or other appropriate markers, shall be anchored/placed to delineate a 300 meter diameter area around the area of construction. Should a Steller's eider appear within the delineated area, construction shall cease until the individual(s) move clear of the area. The buoys/markers shall be removed when construction is complete.

Further, please note General Condition 30 requires that you submit a signed certification to us once any work and required mitigation are completed. Enclosed is the form for you to complete and return to us.

This verification is valid until March 18, 2017, unless the NWP is modified, reissued, or revoked. It is incumbent upon you to remain informed of changes to the NWPs. Nothing in this letter excuses you from compliance with other Federal, State, or local statutes, ordinances, or regulations.

Please contact me via email at jen.l.martin@usace.army.mil, by mail at the address above, by phone at (907) 283-3519, or by fax at (907) 283-3981, if you have questions or to request paper copies of the jurisdictional determination, regional and/or general conditions.

Sincerely,



Jen Martin
Regulatory Specialist

Enclosures

CF:
ADEC: james.rypkema@alaska.gov
ADF&G-DH (Kenai R. Center): OHMPKRC@borough.kenai.ak.us
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ADNR–DMLW: michael.walton@alaska.gov
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SHPO-ADNR OHA: oha.revcomp@alaska.gov
EPA: AOOARU.R10@epamail.epa.gov
NMFS, Anchorage: HCD.Anchorage@noaa.gov
USFWS, Kenai: R7_Kenai_Fish_Comment@fws.gov
Kenai Peninsula Borough: KenaiRivCenter@borough.kenai.ak.us
Applicant: CMeyer@ci.homer.ak.us
Agent Email: lbaughman@pndengineers.com

Hard Copy: (w/permit drawings)
Ms. Lisa Baughman
PND Engineers, Inc.
1506 West 36th Avenue
Anchorage, AK 99503

THE STATE of ALASKA
GOVERNOR SEAN PARNELL

Department of Fish and Game
DIVISION OF HABITAT
Kenai Peninsula Office
514 Funny River Road
Soldotna, Alaska 99669-8255
Main: 907.714.2475
Fax: 907.260.5992

SPECIAL AREA PERMIT 13-V-0176-SA
Amendment I

ISSUED: June 21, 2013
EXPIRES: December 31, 2014

City of Homer, Public Works Department
Carey Meyer, P.E.
3575 Heath Street
Homer, AK 99603

Dear Mr. Meyer:

Re: Float Replacement
Homer Harbor
Kachemak Bay Critical Habitat Area
Sections 35-36, T 6S, R 13W, S. M.; Sections 1-2, T 7S, R 13W, S.M.
River Center Tracking No. 10236

Pursuant to 5 AAC 95, the Alaska Department of Fish and Game (ADF&G), Division of Habitat has reviewed your request for a change of scope amendment to Special Area Permit 13-V-0176-SA to allow the use of creosote pressure treated timber on the timber float units. The rest of the project remains unchanged.

Project Description

The project consists of timber units that are designed with glulam (glued laminate timber) beams that are supported on foam filled polyethylene drums which will then float along steel piles with the tidal cycle. The members proposed to be treated with creosote are the glulam beams that comprise the main structural elements of the floats. These members are designed to be located above water under normal conditions and will only be submerged temporarily under very heavy loading.

There is no practicable alternative to using creosote treated wood for the glulam beams. The most suitable alternative treatment method consists of using ACZA pressure treatment. However, this treatment will limit the lifespan of the proposed project and it is not recommended for use on glulam members. The American Institute of Timber Construction (AITC) states that the use of water-borne preservatives (such as ACZA) may result in raised grain and excessive

warping, checking or splitting of members. Based on the risk for increased member damage, the glulam manufacturers do not warranty members treated with ACZA.

The project will use industry best management practices (BMP's) that leave less creosote residue on the surface of the wood, along with construction practices that reduce the transfer of polycyclic aromatic hydrocarbons (PAHs) from the wood to the environment. These practices will decrease the impact of creosote treated wood on marine environments. The small levels of PAHs that can be released into the nearby marine environment combined with the small amount of creosote treated wood (which would not be submerged under normal conditions) used for this project are not expected to cause harm to the wildlife in the immediate area. Project managers, contractors and sub-contractors on this project shall be familiar with and apply as appropriate the Installation and Maintenance Guidelines of treated wood as outlined in the "Best Management Practices for the Use of Treated Wood in Aquatic and Wetland Environments" published by the "Supporting Organizations", November 1, 2011 or the most current version including published amendments.

The KBCHA was established by the Alaska legislature in 1974 through the enactment of AS 16.20.590 to *"...protect and preserve habitat areas especially crucial to the perpetuation of fish and wildlife, and to restrict all other uses not compatible with that primary purpose"*. (AS 16.20.500). The Kachemak Bay and Fox River Flats Critical Habitat Areas Management Plan (Management Plan) was adopted by the ADF&G in 1993. Activities that occur within the KBCHA must meet the goals and policies of the Management Plan, which have been adopted into regulation and are binding on department actions, including the issuance of Special Area Permits. The management plan provides that KBCHA be managed to maintain and enhance public use of fish, wildlife and critical habitat area lands and water. The proposed project is not expected to adversely impact habitat values or fish and wildlife populations provided the stipulations cited below are followed.

In accordance with 5 AAC 95, project approval is given subject to the project description above and the following additional terms of this permit amendment:

1. The Division of Habitat shall be contacted at (907) 714-2475 three days prior to project initiation and again at project completion.

2. All activities shall be conducted so as to prevent the introduction of petroleum products and hazardous substances into the waters of KBCHA. This includes ensuring that all equipment is clean and free of contamination and that material such as absorbent pads and booms will be readily available on-site.

3. On all new docks, flotation shall be of materials which will not become waterlogged or sink when punctured. Closed cell (extruded) expanded polystyrene or equivalent material of good quality and manufactured for marine use is required. Lesser quality foam bead flotation may be authorized if it is encased in a protective coating to prevent deterioration with resultant loss of beads.

4. The wooden portions of docks, access ramps, abutments, or pilings shall not be treated with any preservative containing pentachlorophenol or creosote with exception to the glulam beams. Pressure treatment with creosote will be allowed on the glulam beams that are located above water under normal conditions. Wood preservatives must be applied using pressure treatment rather than painted on or allowed to soak into the wood.

5. No materials or debris shall be discarded or abandoned in intertidal area or the waters of KBCHA. Any apparatus or equipment inadvertently placed in intertidal areas shall be removed immediately. The permittee shall be responsible for the removal of all structures and associated material from the KBCHA should activities cease or be cancelled. Such removal shall be accomplished within one year of cessation of activities.

You are responsible for the actions of contractors, agents, or other persons who perform work to accomplish the approved project. For any activity that significantly deviates from the approved plan, you shall notify the Division of Habitat and obtain written approval in the form of a permit amendment before beginning the activity. Any action that increases the project's overall scope or that negates, alters, or minimizes the intent or effectiveness of any stipulation contained in this permit amendment will be deemed a significant deviation from the approved plan. The final determination as to the significance of any deviation and the need for a permit amendment is the responsibility of the Division of Habitat. Therefore, it is recommended you consult the Division of Habitat immediately when a deviation from the approved plan is being considered.

For the purpose of inspecting or monitoring compliance with any condition of this permit amendment, the permittee shall give an authorized representative of the state free and unobstructed access, at safe and reasonable times, to the project site. A permittee shall furnish whatever assistance and information as the authorized representative reasonably requires for monitoring and inspection purposes.

This letter constitutes a permit amendment issued under the authority of 5 AAC 95. This permit amendment must be retained on site during the activity. This determination does not relieve you of your responsibility to secure other permits; state, federal, or local. You are still required to comply with all other applicable laws.

In addition to the penalties provided by law, this permit amendment may be terminated or revoked for failure to comply with its provisions or failure to comply with applicable statutes and regulations. The permittee shall mitigate any adverse effect upon fish or wildlife, their habitat, or any restriction or interference with public use that the commissioner determines may be expected to result from, or which actually results from, the permittee's activity, or which was a direct result of the permittee's failure to: 1) comply with a permit amendment condition or a provision of 5 AAC 95; or 2) correct a condition or change a method foreseeably detrimental to fish and wildlife, or their habitat.

You shall indemnify, save harmless, and defend the department, its agents, and its employees from any and all claims, actions, or liabilities for injuries or damages sustained by any person or property arising directly or indirectly from permitted activities or your performance under this

permit amendment. However, this provision has no effect if, and only if, the sole proximate cause of the injury is the department's negligence.

This permit amendment decision may be appealed in accordance with the provisions of AS 44.62.330-630.

If you have any questions regarding this permit amendment, please email patricia.berkhahn@alaska.gov or call (907) 714-2476.

Sincerely,

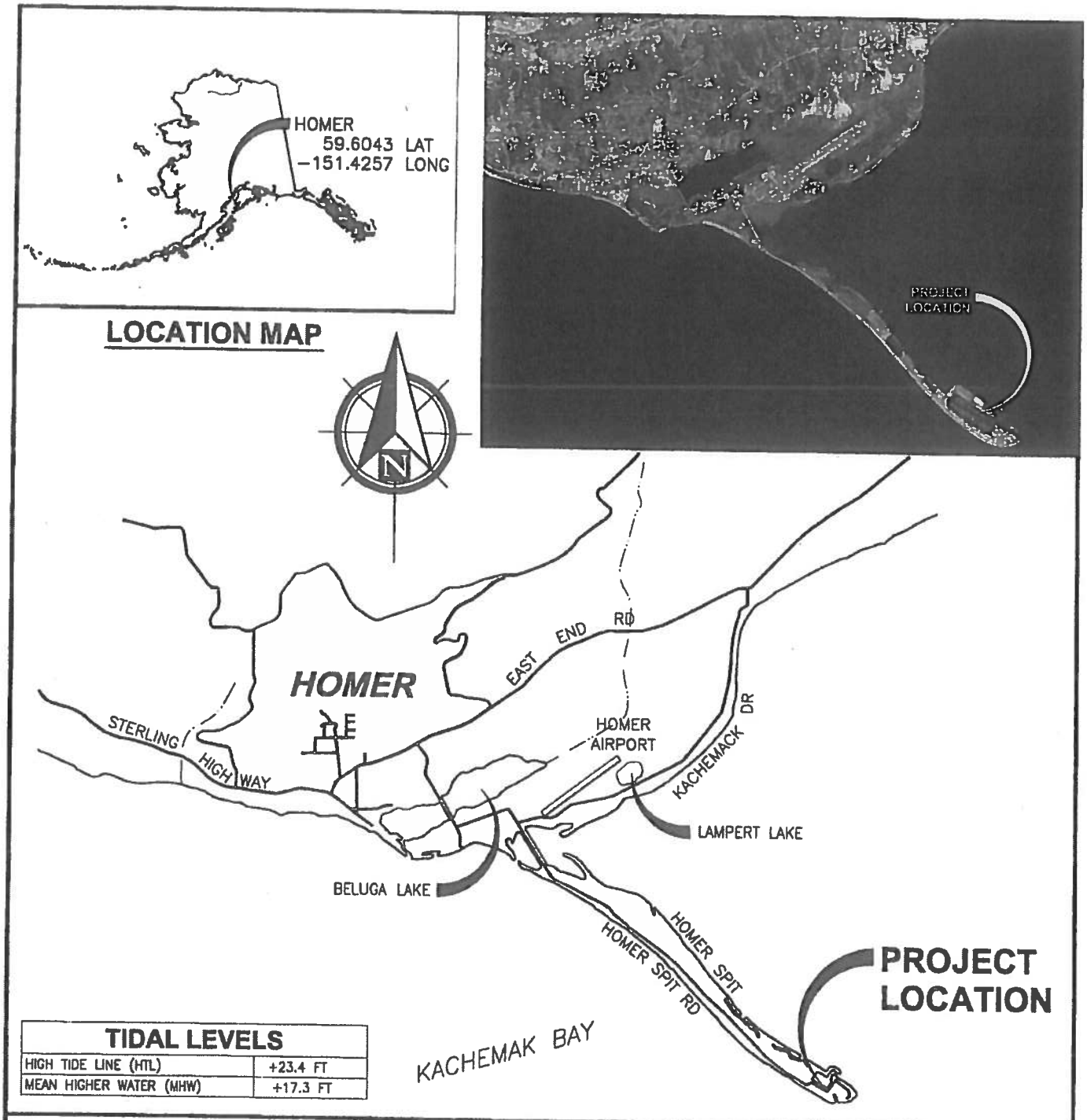
Cora Campbell, Commissioner

By: Ginny Litchfield
Kenai Peninsula Area Manager
ADF&G, Division of Habitat

cc: KRC File

By email only:

AWT Homer
ADF&G Homer, Anch
ADEC-Anch.
COE-KFO



TIDAL LEVELS	
HIGH TIDE LINE (HTL)	+23.4 FT
MEAN HIGHER WATER (MHW)	+17.3 FT

PROPOSED ACTIVITY:
REPLACEMENT OF EXISTING FLOATS J, R, S, HEADWALK A FLOAT AND RAMP 3 WITH GANGWAY AND TRESTLE

DATUM: MLLW 0'

SEC.35 T.6S R13W SEW.
SEC.36 T.6S R13W SEW.
SEC.2 T.7S R13W SEW.
SEC.1 T.7S R13W SEW.

VICINITY MAP

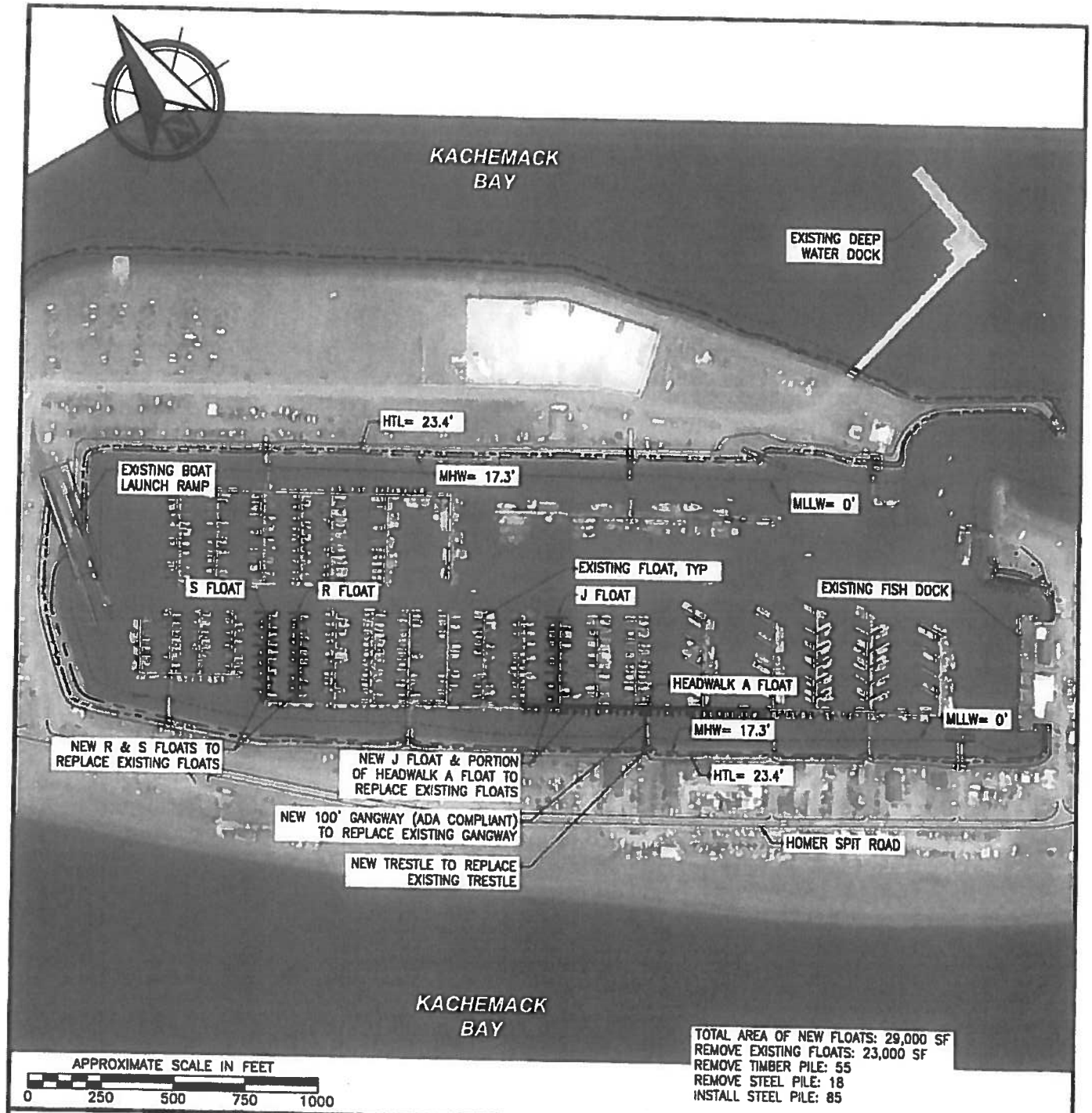
CITY OF HOMER
3575 HEATH ST.
HOMER, AK 99603

CITY OF HOMER SBH FLOAT REPLACEMENT

IN: KACHEMAK BAY
BY: CITY OF HOMER, AK

APR 12, 2013 SHEET 1 of 6

POA-1981-465, Kachemak Bay



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REPLACEMENT OF EXISTING FLOATS J, R, S, HEADWALK A FLOAT AND RAMP 3 WITH GANGWAY AND TRESTLE

DATUM: MLLW 0'

SEC.35 T.6S R13W SEW.
SEC.36 T.6S R13W SEW.
SEC.2 T.7S R13W SEW.
SEC.1 T.7S R13W SEW.

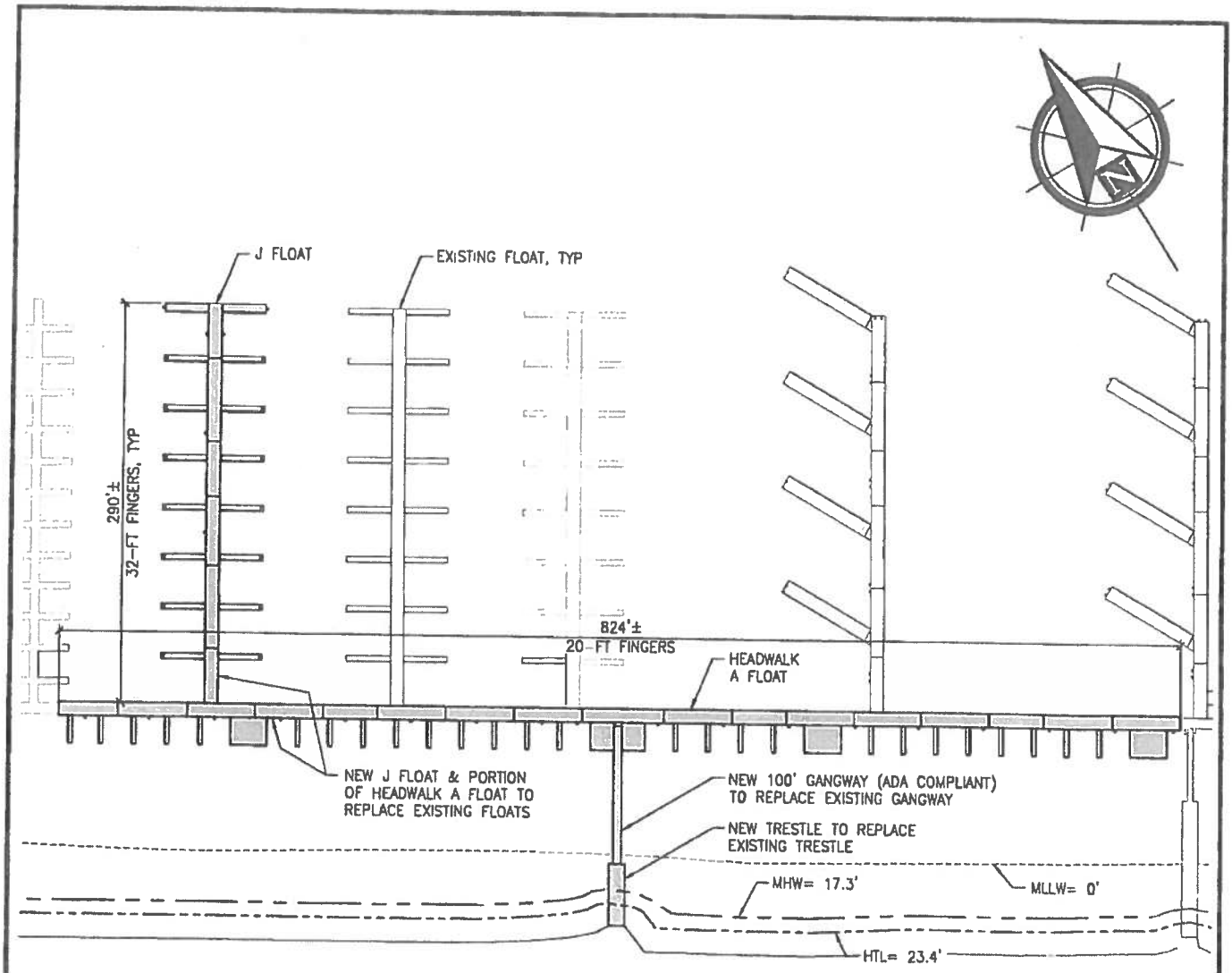
LOCATION MAP

CITY OF HOMER
3575 HEATH ST.
HOMER, AK 99603

CITY OF HOMER SBH FLOAT REPLACEMENT

IN: KACHEMAK BAY
BY: CITY OF HOMER, AK

APR 12, 2013 SHEET 2 of 6



SLIP QUANTITIES

SLIP LENGTH (LF)	EXISTING	PROPOSED
17	74	-
20	-	58
24	100	63
32	38	51
TOTAL	212	172

SCALE IN FEET
0 60 120 180 240

PROPOSED ACTIVITY:
REPLACEMENT OF EXISTING FLOATS J, R, S, HEADWALK A FLOAT AND RAMP 3 WITH GANGWAY AND TRESTLE

DATUM: MLLW 0'

SEC.35 T.6S R13W SEW.
SEC.36 T.6S R13W SEW.
SEC.2 T.7S R13W SEW.
SEC.1 T.7S R13W SEW.

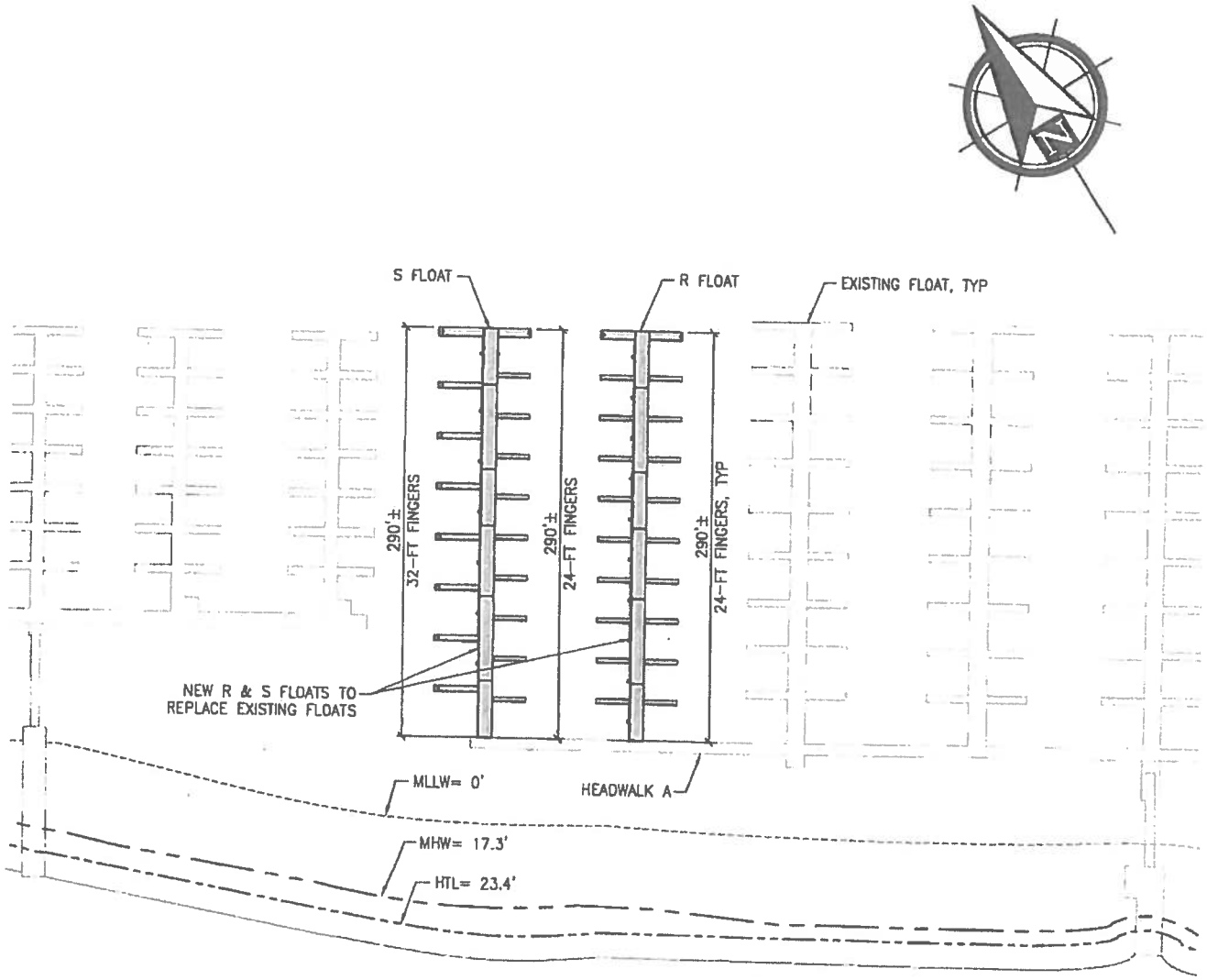
HEAD WALK A & J FLOAT PLAN

CITY OF HOMER
3575 HEATH ST.
HOMER, AK 99603

CITY OF HOMER SBH FLOAT REPLACEMENT

IN: KACHEMAK BAY
BY: CITY OF HOMER, AK

APR 12, 2013 SHEET 3 of 6



SCALE IN FEET
0 60 120 180 240

PROPOSED ACTIVITY:
REPLACEMENT OF EXISTING FLOATS J, R, S, HEADWALK A FLOAT AND RAMP 3 WITH GANGWAY AND TRESTLE

DATUM: MLLW 0'

SEC.35 T.6S R13W SEW.
SEC.36 T.6S R13W SEW.
SEC.2 T.7S R13W SEW.
SEC.1 T.7S R13W SEW.

S FLOAT AND R FLOAT PLAN

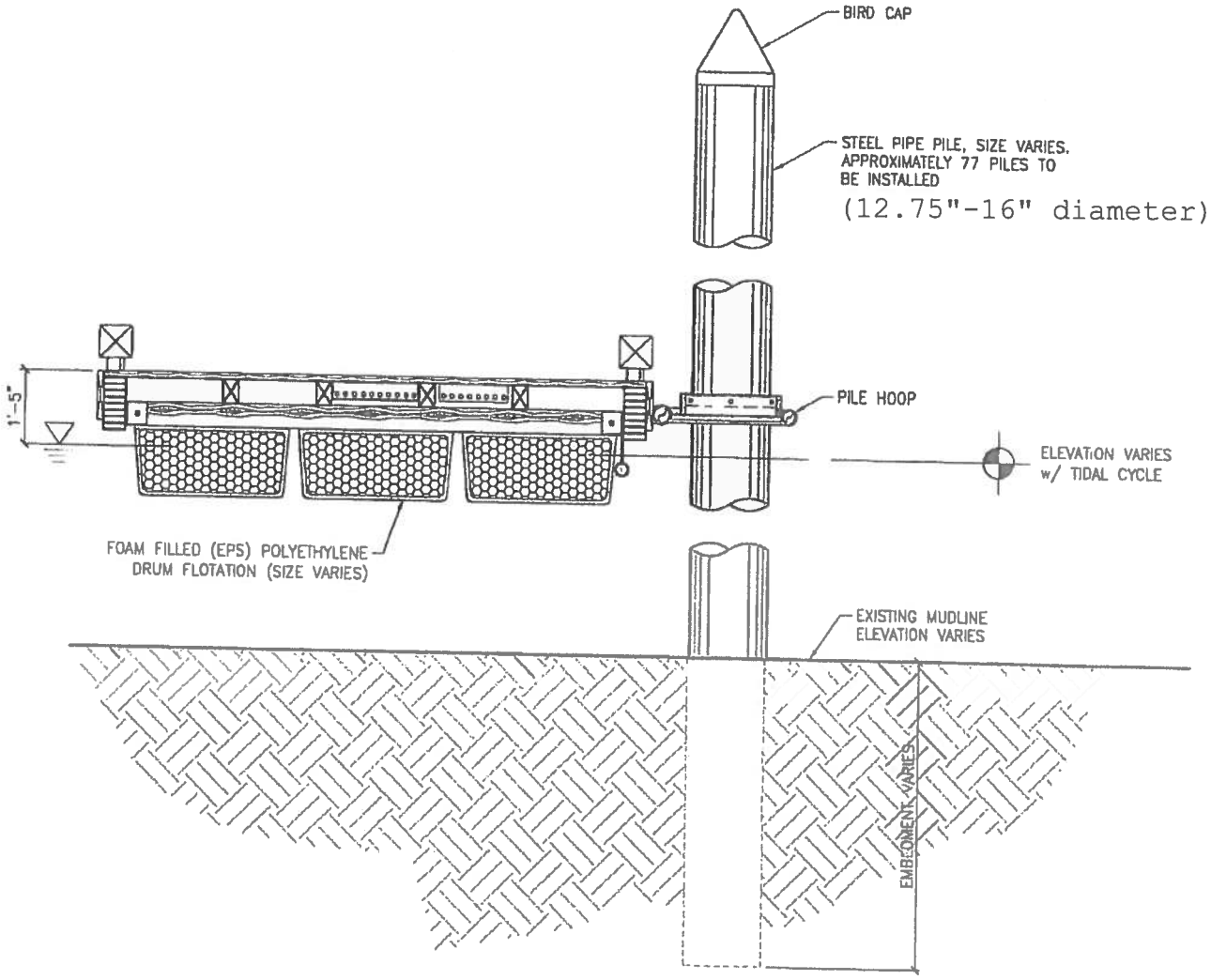
CITY OF HOMER
3575 HEATH ST.
HOMER, AK 99603

CITY OF HOMER SBH FLOAT REPLACEMENT

IN: KACHEMAK BAY
BY: CITY OF HOMER, AK

APR 12, 2013 SHEET 4 of **6**

POA-1981-465, Kachemak Bay



PROPOSED ACTIVITY:
REPLACEMENT OF EXISTING FLOATS J, R, S, HEADWALK A FLOAT AND RAMP 3 WITH GANGWAY AND TRESTLE

DATUM: MLLW 0'

SEC.35 T.6S R13W SEW.
SEC.36 T.6S R13W SEW.
SEC.2 T.7S R13W SEW.
SEC.1 T.7S R13W SEW.

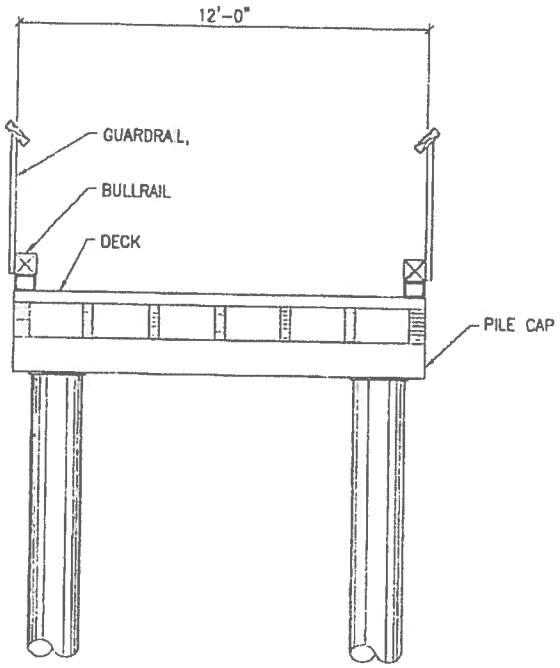
FLOAT PLAN & SECTION

CITY OF HOMER
3575 HEATH ST.
HOMER, AK 99603

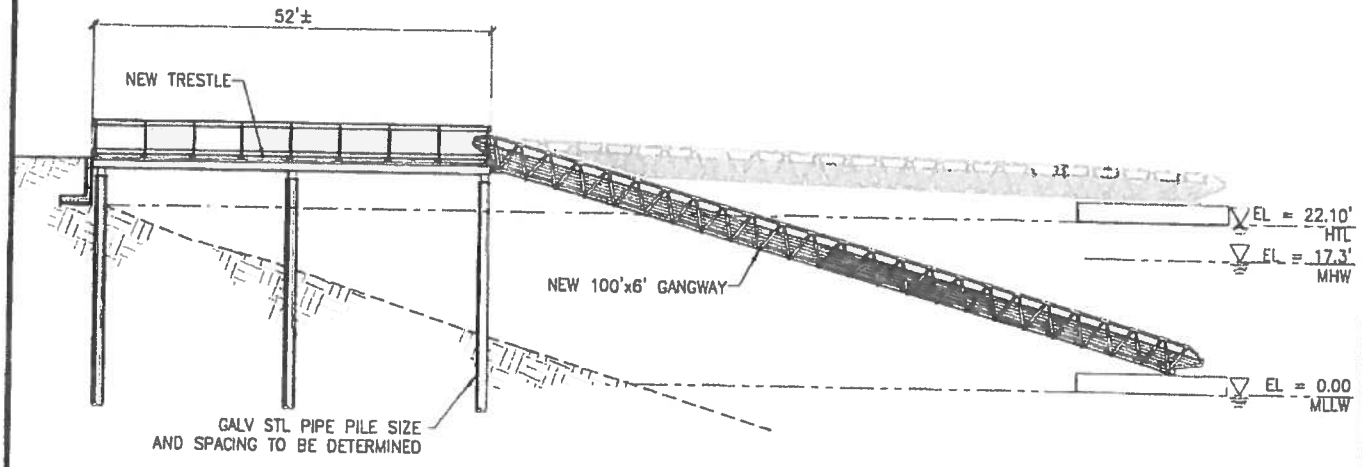
CITY OF HOMER SBH FLOAT REPLACEMENT

IN: KACHEMAK BAY
BY: CITY OF HOMER, AK

APR 12, 2013 SHEET 5 of **6**



APPROACH TRESTLE CROSS SECTION



ELEVATION

PROPOSED ACTIVITY:
REPLACEMENT OF EXISTING FLOATS J, R, S, HEADWALK A FLOAT AND RAMP 3 WITH GANGWAY AND TRESTLE

DATUM: MLLW 0'

SEC.35 T.6S R13W SEW.
SEC.36 T.6S R13W SEW.
SEC.2 T.7S R13W SEW.
SEC.1 T.7S R13W SEW.

TRESTLE & GANGWAY SECTION

CITY OF HOMER
3575 HEATH ST.
HOMER, AK 99603

CITY OF HOMER SBH FLOAT REPLACEMENT

IN: KACHEMAK BAY
BY: CITY OF HOMER, AK

APR 12, 2013 SHEET 6 of **6**

POA-1981-465, Kachemak Bay

DEPARTMENT OF THE ARMY
ALASKA DISTRICT, U.S. ARMY CORPS OF ENGINEERS
REGULATORY DIVISION
805 FRONTAGE ROAD, SUITE 200C
KENAI, ALASKA 99611-7755

October 30, 2013

Regulatory Division
POA-1981-465

Mr. Carey Meyer
City of Homer
3575 Heath Street
Homer, AK 99603

Dear Mr. Meyer:

This is in response to your August 7, 2013, application for a Department of the Army (DA) permit, submitted on your behalf by PND Engineers, Inc., to remove and replace two existing scissors lift connections to the Homer Small Boat Harbor water system (Ramps 2 and 4) and install a new waterline for the System 5 floats (Ramp 7). The project site is located within the NW¼ Section 1, T. 7 S., R. 13 W., Seward Meridian; Latitude 59.6039° N., Longitude 151.4246° W.; Kenai Peninsula Borough, Homer Small Boat Harbor; in Homer, Alaska. It has been assigned file number POA-1981-465, Kachemak Bay, which should be referred to in all future correspondence with this office.

Work at Ramps 2 and 4 will include disconnecting the existing water lines from the float systems at the Ramp 2 and 4 scissors lift locations. A 7' deep trench, up to 30' in width, will be excavated to remove the old lines, and install a new 4" diameter water line at each location, with 15 linear foot (lf) of excavation between the high tide line (HTL, 23.4') and mean high water mark (MHWM, 17.3') of Kachemak Bay, and 115lf below the MHWM of Kachemak Bay. Up to 550 cubic yards (cy) of material will be excavated (50cy between HTL and MHWM, and 500cy below the MHWM), and temporarily sidecast into a 4000 square foot (sf) area below the HTL. All sidecast material will be returned to the trench upon utility line installation. The new water lines will be anchored to the harbor bottom with a 2' by 3' concrete anchor, with 100lf of flexible water line extending to the floats.

Work at Ramp 7 (System 5) will include excavating a 7' deep trench, up to 30' in width, for installation of a 3" diameter water line, with 20lf of excavation between the HTL and MHWM of Kachemak Bay, and 100lf below the MHWM of Kachemak Bay. Up to 500cy of material will be excavated (100cy between HTL and MHWM, and 400cy below the MHWM), and temporarily sidecast into a 4000sf area below the HTL. All sidecast material will be returned to the trench upon utility line installation. The new water line will be anchored to the harbor bottom with a 2' by 3' concrete anchor, with 100lf of flexible water line extending to the float.

Based on our review of the information you furnished and available to us, we have determined the above property contains waters of the United States (U.S.), including wetlands, under the Corps' regulatory jurisdiction. A copy of the Approved Jurisdictional Determination form is available at: www.poa.usace.army.mil/Missions/Regulatory/JurisdictionalDeterminations.aspx under the above file number.

This approved jurisdictional determination is valid for five (5) years from the date of this letter, unless new information supporting a revision is provided to us before the expiration date. Enclosed is a Notification of Administrative Appeal Options and Process and Request for Appeal form regarding this approved jurisdictional determination (see section titled "Approved Jurisdictional Determination").

DA permit authorization is necessary because your project would involve work in and placement of structures and dredged and/or fill material into waters of the U.S. under our regulatory jurisdiction.

Based upon the information and plans you provided, we hereby verify that the work described above, which would be performed in accordance with the enclosed plan (sheets 1-3), dated September 2013, is authorized by Nationwide Permit (NWP) No. 12, Utility Activities. NWP No. 12 and its associated Regional and General Conditions can be accessed at our website at: www.poa.usace.army.mil/Missions/Regulatory/Permits.aspx. Regional Conditions D-H apply to your project. You must comply with all terms and conditions associated with NWP No. 12, as well as with the special condition listed below:

1. The National Oceanic and Atmospheric Administration, Office of Coast Survey, Marine Chart Division, National Ocean Service (NOS) has been notified of this authorization. You must notify NOS and this office in writing, at least two weeks before you begin work and upon completion of the activity authorized by this permit. Your notification of completion must include a drawing which certifies the location and configuration of the completed activity (a certified permit drawing may be used). Notifications to NOS will be sent to the following address: Nautical Data Branch, Attn: John Whiddon, N/CS261 Room 7220, 1315 East-West Highway, Silver Spring, Maryland 20910.

Further, please note General Condition 30 requires that you submit a signed certification to us once any work and required mitigation are completed. Enclosed is the form for you to complete and return to us.

This verification is valid until March 18, 2017, unless the NWP is modified, reissued, or revoked. It is incumbent upon you to remain informed of changes to the NWPs. Nothing in this letter excuses you from compliance with other Federal, State, or local statutes, ordinances, or regulations.

Please contact me via email at jen.l.martin@usace.army.mil, by mail at the address above, by phone at (907) 283-3519, or by fax at (907) 283-3981, if you have questions or to request paper copies of the jurisdictional determination, regional and/or general conditions. For more information about the Regulatory Program, please visit our website at http://www.poa.usace.army.mil/Missions/Regulatory.aspx.

Sincerely,

Jen Martin
Regulatory Specialist

Enclosures

CF:

ADEC: james.rypkema@alaska.gov
ADF&G-DH (Kenai R. Center): OHMPKRC@borough.kenai.ak.us
ADNR–DMLW: christina.bohner@alaska.gov
ADNR–DMLW: michael.walton@alaska.gov
ADNR–DMLW: dnr.scro.dcom.cor@alaska.gov
SHPO-ADNR OHA: oha.revcomp@alaska.gov
EPA: AOOARU.R10@epamail.epa.gov
NMFS, Anchorage: HCD.Anchorage@noaa.gov
USFWS, Kenai: R7_Kenai_Fish_Comment@fws.gov
Kenai Peninsula Borough: KenaiRivCenter@borough.kenai.ak.us
Applicant: CMeyer@ci.homer.ak.us
Agent: LBaughman@pndengineers.com

Hard Copy: (w/out enclosures)
Ms. Lisa Baughman
PND Engineers, Inc.
1506 West 36th Avenue
Anchorage, AK 99503

Hard Copy: (w/PCN and drawings)
National Ocean Service
Office of Coast Survey, N/CS261
1315 East West Highway
Silver Spring, Maryland 20910-3282

ENCLOSURE

US Army Corps of Engineers
Alaska District

Permit Number: POA-1981-465

Name of Permittee: City of Homer

Date of Issuance: October 30, 2013

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to Ms. Jen Martin at the following address:

U.S. Army Corps of Engineers
Alaska District
Regulatory Division
805 Frontage Road, Suite 200C
Kenai, Alaska 99611-7755

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

_____ _____

Signature of Permittee Date

THE STATE
of ALASKA
GOVERNOR SEAN PARNELL

Department of
Fish and Game
DIVISION OF HABITAT
Kenai Peninsula Office
514 Funny River Road
Soldotna, Alaska 99669-8255
Main: 907.714.2475
Fax: 907.260.5992

SPECIAL AREA PERMIT 13-V-0257-SA
Amendment I

ISSUED: August 14, 2013
EXPIRES: December 31, 2014

City of Homer, Public Works Department
Carey Meyer, P.E.
3575 Heath Street
Homer, AK 99603

Dear Mr. Meyer:

RE: Water Line Replacement
Homer Harbor
Kachemak Bay Critical Habitat Area
Sections 35-36, T 6S, R 13W, S. M.; Sections 1-2, T 7S, R 13W, S.M.
River Center Tracking No. 10342

Pursuant to 5 AAC 95, the Alaska Department of Fish and Game (ADF&G), Division of Habitat, has reviewed your request for a change of scope amendment to Special Area Permit 13-V-0257-SA to upgrade the water lines at the Homer Small Boat Harbor. Updated flex hose connections and a new water line need to be installed at three locations within the boat harbor, because of aging components that are currently causing them to no longer function properly. Excavated material for installation of the water lines and components is expected to total approximately 3,000 cubic yards (CY). The project is expected to occur during the spring or fall of 2014.

Project Description

Updating flex hose connections will require removal of the existing scissors lift and a portion of the water lines located on the harbor uplands and the tidelands to allow field installation of the new connections. The existing water line will be disconnected from the float system at the Ramp 2 and 4 scissors lift locations. The new water lines will be field spliced to the existing lines and installed with the trenches excavated during removal of the existing lines.

System 5 water line installation will require some trenching (approximately 7 feet deep) on the northeast side of the harbor. Figure 1 (attached) is incorporated into this project description for System 5 water line replacement.

The portion of the work in the tidelands will be conducted during minus tides (less than 0' elevation) and will be completed using a backhoe setting on the slope above the water level. New bedding material will be installed below the lines and the excavated material, consisting of clean gravel, will be replaced over the new lines. Material will be stockpiled adjacent to the work site and replaced after work on the water line is complete. Equipment used during the project is anticipated to consist of an excavator/backhoe, dump truck, compactor, and miscellaneous small equipment.

The KBCHA was established by the Alaska legislature in 1974 through the enactment of AS 16.20.590 to *"...protect and preserve habitat areas especially crucial to the perpetuation of fish and wildlife, and to restrict all other uses not compatible with that primary purpose"*. (AS 16.20.500). The Kachemak Bay and Fox River Flats Critical Habitat Areas Management Plan (Management Plan) was adopted by the ADF&G in 1993. Activities that occur within the KBCHA must meet the goals and policies of the Management Plan, which have been adopted into regulation and are binding on department actions, including the issuance of Special Area Permits. The management plan provides that KBCHA be managed to maintain and enhance public use of fish, wildlife and critical habitat area lands and water. The proposed project is not expected to adversely impact habitat values or fish and wildlife populations provided the stipulations cited below are followed.

In accordance with 5 AAC 95, project approval is given subject to the project description above and the following additional terms of this permit:

1. The Division of Habitat shall be contacted at (907) 714-2475 three days prior to project initiation and again at project completion.

2. All activities shall be conducted so as to prevent the introduction of petroleum products and hazardous substances into the waters of KBCHA. This includes ensuring that all equipment is clean and free of contamination and that material such as absorbent pads and booms will be readily available on-site.

3. No materials or debris shall be discarded or abandoned in intertidal area or the waters of KBCHA. Any apparatus or equipment inadvertently placed in intertidal areas shall be removed immediately. The permittee shall be responsible for the removal of all structures and associated material from the KBCHA should activities cease or be cancelled. Such removal shall be accomplished within one year of cessation of activities.

4. All tideland and *in water work* shall be conducted at the lowest tides. No wheeled or tracked equipment shall be operated in the waters of Kachemak Bay.

5. All excavated materials shall be replaced immediately after the water line is repaired before the next tide series.

You are responsible for the actions of contractors, agents, or other persons who perform work to accomplish the approved project. For any activity that significantly deviates from the approved plan, you shall notify the Division of Habitat and obtain written approval in the form of a permit amendment before beginning the activity. Any action that increases the project's overall scope or that negates, alters, or minimizes the intent or effectiveness of any stipulation contained in this permit amendment will be deemed a significant deviation from the approved plan. The final determination as to the significance of any deviation and the need for a permit amendment is the responsibility of the Division of Habitat. Therefore, it is recommended you consult the Division of Habitat immediately when a deviation from the approved plan is being considered.

For the purpose of inspecting or monitoring compliance with any condition of this permit amendment, the permittee shall give an authorized representative of the state free and unobstructed access, at safe and reasonable times, to the project site. A permittee shall furnish whatever assistance and information as the authorized representative reasonably requires for monitoring and inspection purposes.

This letter constitutes a permit amendment issued under the authority of 5 AAC 95. This permit amendment must be retained on site during the activity. This determination does not relieve you of your responsibility to secure other permits; state, federal, or local. You are still required to comply with all other applicable laws.

In addition to the penalties provided by law, this permit amendment may be terminated or revoked for failure to comply with its provisions or failure to comply with applicable statutes and regulations. The permittee shall mitigate any adverse effect upon fish or wildlife, their habitat, or any restriction or interference with public use that the commissioner determines may be expected to result from, or which actually results from, the permittee's activity, or which was a direct result of the permittee's failure to: 1) comply with a permit amendment condition or a provision of 5 AAC 95; or 2) correct a condition or change a method foreseeably detrimental to fish and wildlife, or their habitat.

You shall indemnify, save harmless, and defend the department, its agents, and its employees from any and all claims, actions, or liabilities for injuries or damages sustained by any person or property arising directly or indirectly from permitted activities or your performance under this permit amendment. However, this provision has no effect if, and only if, the sole proximate cause of the injury is the department's negligence.

This permit amendment decision may be appealed in accordance with the provisions of AS 44.62.330-630.

Any questions or concerns about this permit amendment may be emailed to brian.blossom@alaska.gov or call (907) 714-2481.

Sincerely,

Cora Campbell, Commissioner

By: Ginny Litchfield
Kenai Peninsula Area Manager
ADF&G, Division of Habitat

Enclosure: Figure 1. Drawing

cc: KRC File

By email only:

AWT Homer
ADF&G Homer
COE – KFO

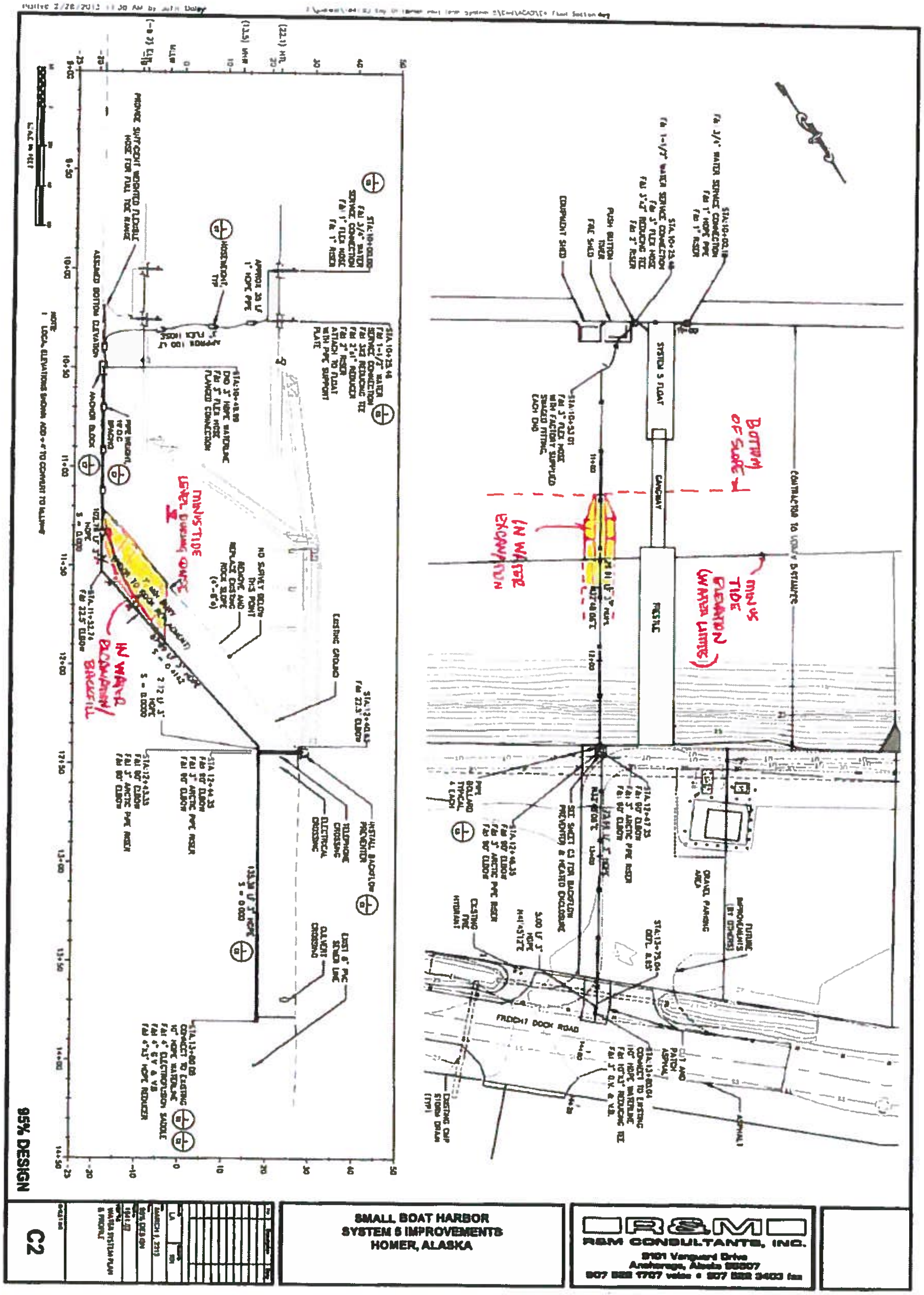

SMALL BOAT HARBOR
SYSTEM 5 IMPROVEMENTS
HOMER, ALASKA
R&M CONSULTANTS, INC.
95% DESIGN
C2

Figure 1.

THE STATE
of ALASKA
GOVERNOR SEAN PARNELL

Department of
Fish and Game

DIVISION OF HABITAT
Kenai Peninsula Office

514 Funny River Road
Soldotna, Alaska 99669-8255
Main: 907.714.2475
Fax: 907.260.5992

SPECIAL AREA PERMIT FH 13-V-0257-SA

ISSUED: July 19, 2013
EXPIRES: December 31, 2014

City of Homer, Public Works Department
Carey Meyer, P.E.
3575 Heath Street
Homer, AK 99603

Dear Mr. Meyer:

RE: Water Line Replacement
Homer Harbor
Kachemak Bay Critical Habitat Area
Sections 35-36, T 6S, R 13W, S. M.; Sections 1-2, T 7S, R 13W, S.M.
River Center Tracking No. 10342

Pursuant to 5 AAC 95, the Alaska Department of Fish and Game (ADF&G), Division of Habitat, has reviewed your proposal to upgrade the water lines at the Homer Small Boat Harbor. The majority of the water line work is above the tidelands; however, a short section is located within the boundaries of the Kachemak Bay Critical Habitat Area (KBCHA). Approximately 155 lineal feet of water line will be installed below mean high tide and approximately 85 lineal feet of water line will be installed as *in water work* in the Harbor. The project is expected to occur during the spring or fall of 2014.

Project Description

The project will require removal of the existing scissors lift and a portion of the water lines located on the harbor uplands and the tidelands to allow field installation of the new connections. The existing water line will be disconnected from the float system at the Ramp 2 and 4 scissors lift locations. The new water lines will be field spliced to the existing lines and installed with the trenches excavated during removal of the existing lines. The portion of the project in the tidelands will be conducted during minus tides (less than 0' elevation) and will be completed using a backhoe setting on the slope above the water level. New bedding material will be installed below the lines and the excavated material, consisting of clean gravel, will be replaced

over the new lines. Approximately 20 to 25 cubic yards (CY) of excavation/backfill is estimated for replacement of water lines installed as *in water work* and 135 CY of excavation /backfill is estimated for water lines below mean high tide. Material will be stockpiled adjacent to the work site and replaced after work on the water line is complete. Equipment used during the project is anticipated to consist of an excavator/backhoe, dump truck, compactor, and miscellaneous small equipment.

The KBCHA was established by the Alaska legislature in 1974 through the enactment of AS 16.20.590 to *"...protect and preserve habitat areas especially crucial to the perpetuation of fish and wildlife, and to restrict all other uses not compatible with that primary purpose"*. (AS 16.20.500). The Kachemak Bay and Fox River Flats Critical Habitat Areas Management Plan (Management Plan) was adopted by the ADF&G in 1993. Activities that occur within the KBCHA must meet the goals and policies of the Management Plan, which have been adopted into regulation and are binding on department actions, including the issuance of Special Area Permits. The management plan provides that KBCHA be managed to maintain and enhance public use of fish, wildlife and critical habitat area lands and water. The proposed project is not expected to adversely impact habitat values or fish and wildlife populations provided the stipulations cited below are followed.

In accordance with 5 AAC 95, project approval is given subject to the project description above and the following additional terms of this permit:

1. The Division of Habitat shall be contacted at (907) 714-2475 three days prior to project initiation and again at project completion.

2. All activities shall be conducted so as to prevent the introduction of petroleum products and hazardous substances into the waters of KBCHA. This includes ensuring that all equipment is clean and free of contamination and that material such as absorbent pads and booms will be readily available on-site.

3. No materials or debris shall be discarded or abandoned in intertidal area or the waters of KBCHA. Any apparatus or equipment inadvertently placed in intertidal areas shall be removed immediately. The permittee shall be responsible for the removal of all structures and associated material from the KBCHA should activities cease or be cancelled. Such removal shall be accomplished within one year of cessation of activities.

4. All tideland and *in water work* shall be conducted at the lowest tides. No wheeled or tracked equipment shall be operated in the waters of Kachemak Bay.

5. All excavated materials will be replaced immediately after the water line is repaired before the next tide series.

You are responsible for the actions of contractors, agents, or other persons who perform work to accomplish the approved project. For any activity that significantly deviates from the approved plan, you shall notify the Division of Habitat and obtain written approval in the form of a permit amendment before beginning the activity. Any action that increases the project's overall scope or

that negates, alters, or minimizes the intent or effectiveness of any stipulation contained in this permit will be deemed a significant deviation from the approved plan. The final determination as to the significance of any deviation and the need for a permit amendment is the responsibility of the Division of Habitat. Therefore, it is recommended you consult the Division of Habitat immediately when a deviation from the approved plan is being considered.

For the purpose of inspecting or monitoring compliance with any condition of this permit, you shall give an authorized representative of the state free and unobstructed access, at safe and reasonable times, to the project site. You shall furnish whatever assistance and information as the authorized representative reasonably requires for monitoring and inspection purposes.

This letter constitutes a permit issued under the authority of 5 AAC 95 and must be retained on site during project activities. Please be advised that this determination applies only to activities regulated by the Division of Habitat; other agencies also may have jurisdiction under their respective authorities. This determination does not relieve you of your responsibility to secure other permits; state, federal, or local. You are still required to comply with all other applicable laws.

In addition to the penalties provided by law, this permit may be terminated or revoked for failure to comply with its provisions or failure to comply with applicable statutes and regulations. The permittee shall mitigate any adverse effect upon fish or wildlife, their habitat, or any restriction or interference with public use that the commissioner determines may be expected to result from, or which actually results from, the permittee's activity, or which was a direct result of the permittee's failure to: 1) comply with a permit condition or a provision of 5 AAC 95; or 2) correct a condition or change a method foreseen as detrimental to fish and wildlife, or their habitat.

You shall indemnify, save harmless, and defend the department, its agents, and its employees from any and all claims, actions, or liabilities for injuries or damages sustained by any person or property arising directly or indirectly from permitted activities or your performance under this permit. However, this provision has no effect if, and only if, the sole proximate cause of the injury is the department's negligence.

This permit decision may be appealed in accordance with the provisions of AS 44.62.330-630.

Any questions or concerns about this permit may be emailed to patricia.berkhahn@alaska.gov or call (907) 714-2476.

Sincerely,

Cora Campbell, Commissioner

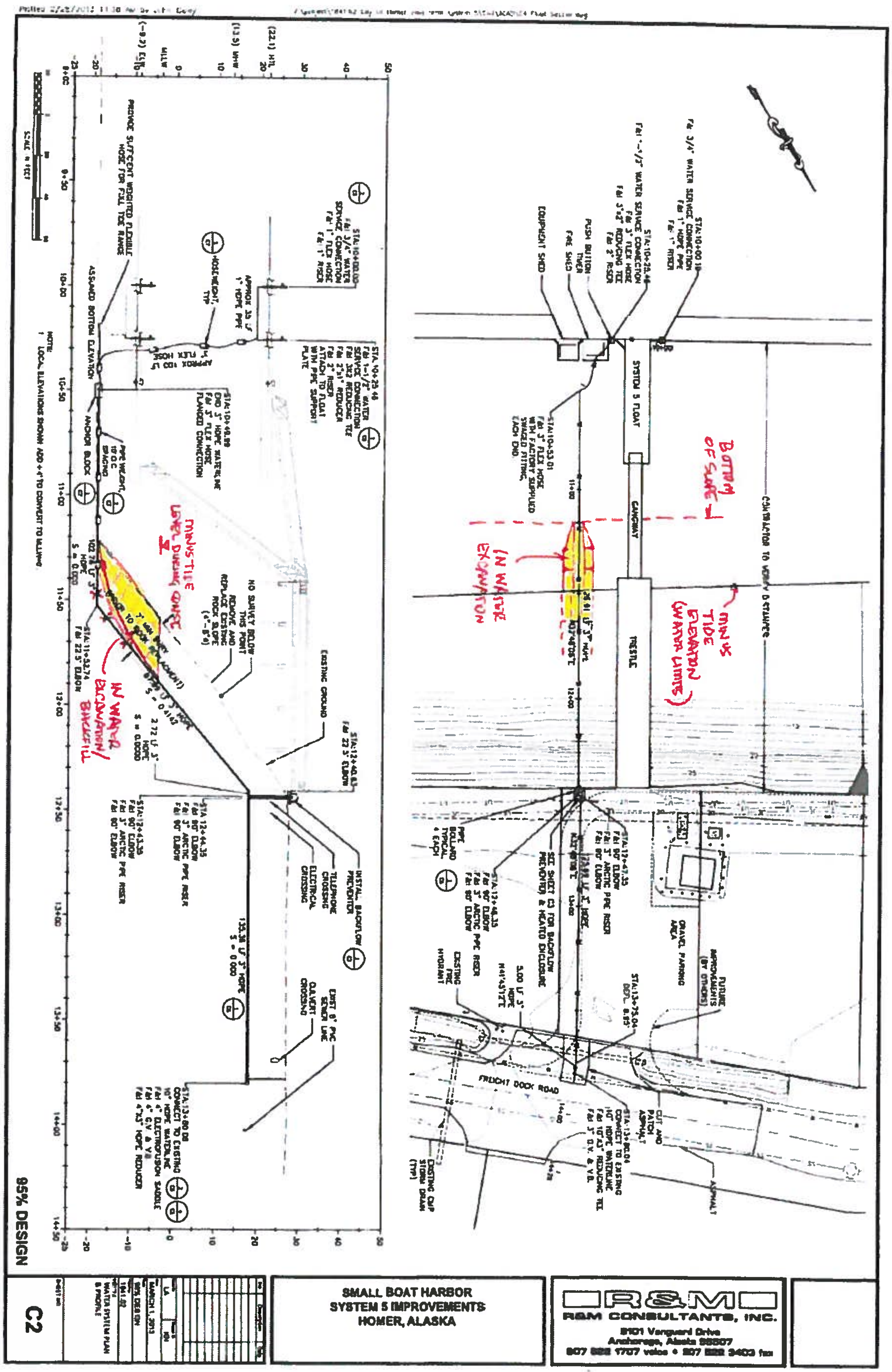
By: Ginny Litchfield
Kenai Peninsula Area Manager
ADF&G, Division of Habitat

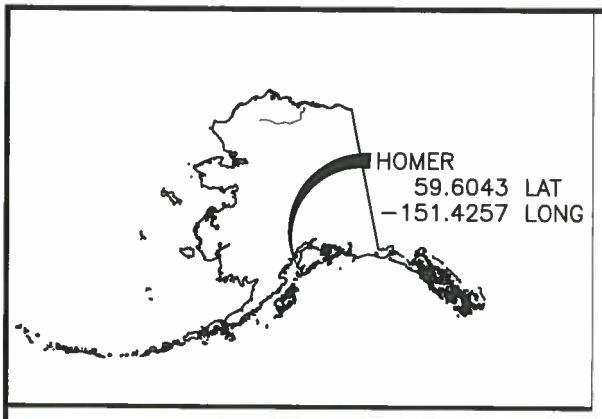
Enclosure: Drawing

cc: KRC File

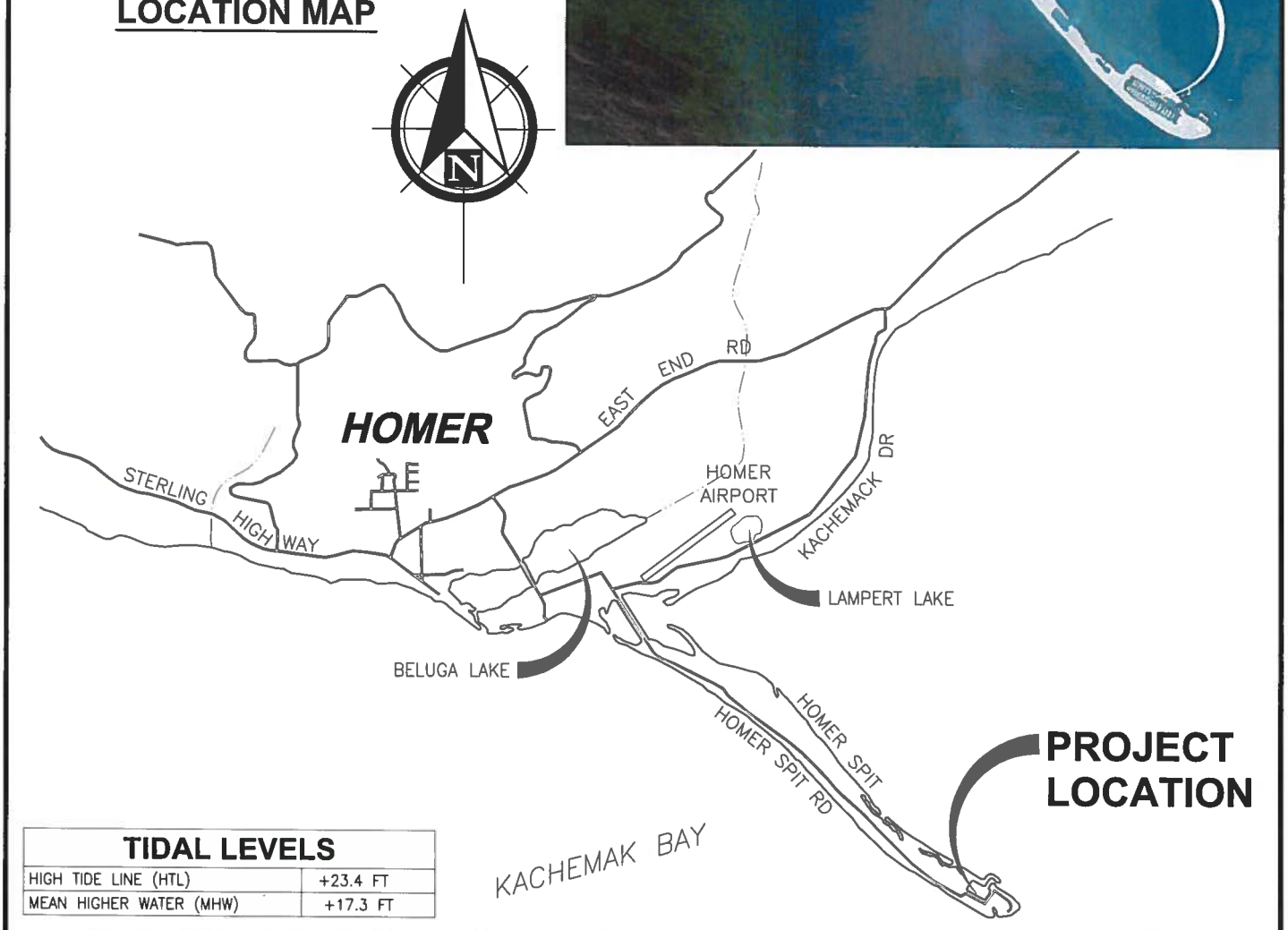
By email only:

AWT Homer
ADF&G Homer
COE – KFO


SMALL BOAT HARBOR
SYSTEM 5 IMPROVEMENTS
HOMER, ALASKA
R&M CONSULTANTS, INC.
95% DESIGN
C2
SYSTEM 5 FLOAT
GANGWAY
TRESTLE
FREIGHT DOCK ROAD
BOTTOM OF SLOPE
IN WATER EXCAVATION
MINUS TIDE ELEVATION (WORK LIMITS)



LOCATION MAP



TIDAL LEVELS	
HIGH TIDE LINE (HTL)	+23.4 FT
MEAN HIGHER WATER (MHW)	+17.3 FT

PROPOSED ACTIVITY:
REPLACEMENT OF EXISTING WATER SYSTEM CONNECTION AND ADDITION OF NEW WATER SYSTEM CONNECTION

DATUM: MLLW 0'

SEC.35 T.6S R13W SEW.
SEC.36 T.6S R13W SEW.
SEC.2 T.7S R13W SEW.
SEC.1 T.7S R13W SEW.

VICINITY MAP

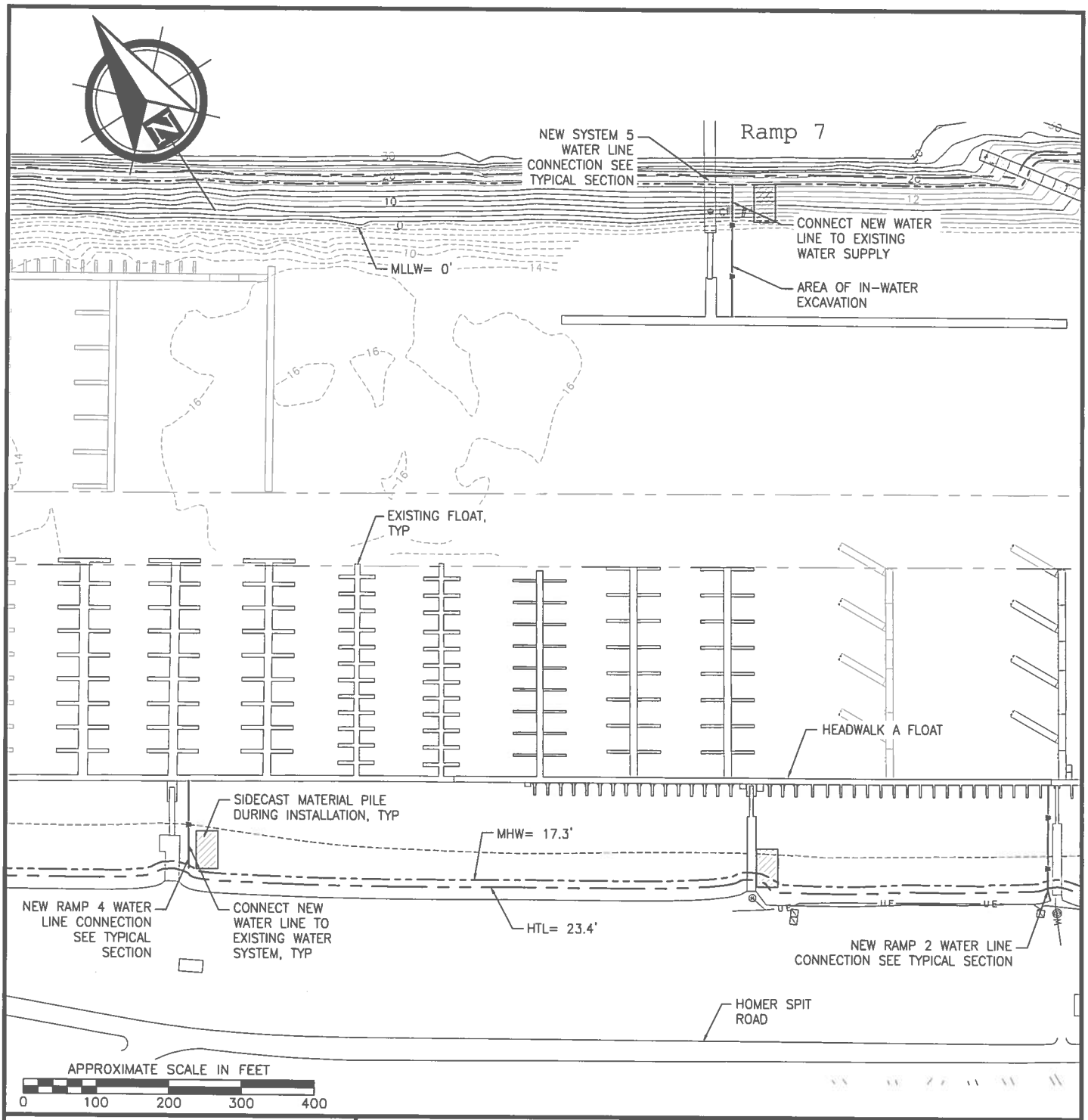
CITY OF HOMER
3575 HEATH ST.
HOMER, AK 99603

CITY OF HOMER SBH WATER LINE

IN: KACHEMAK BAY
BY: CITY OF HOMER, AK

SEPTEMBER 2013 SHEET 1 of **3**

POA-1981-465, Kachemak Bay



PROPOSED ACTIVITY:
REPLACEMENT OF EXISTING WATER SYSTEM CONNECTION AND ADDITION OF NEW WATER SYSTEM CONNECTION

DATUM: MLLW 0'

SEC.35 T.6S R13W SEW.
SEC.36 T.6S R13W SEW.
SEC.2 T.7S R13W SEW.
SEC.1 T.7S R13W SEW.

SITE PLAN

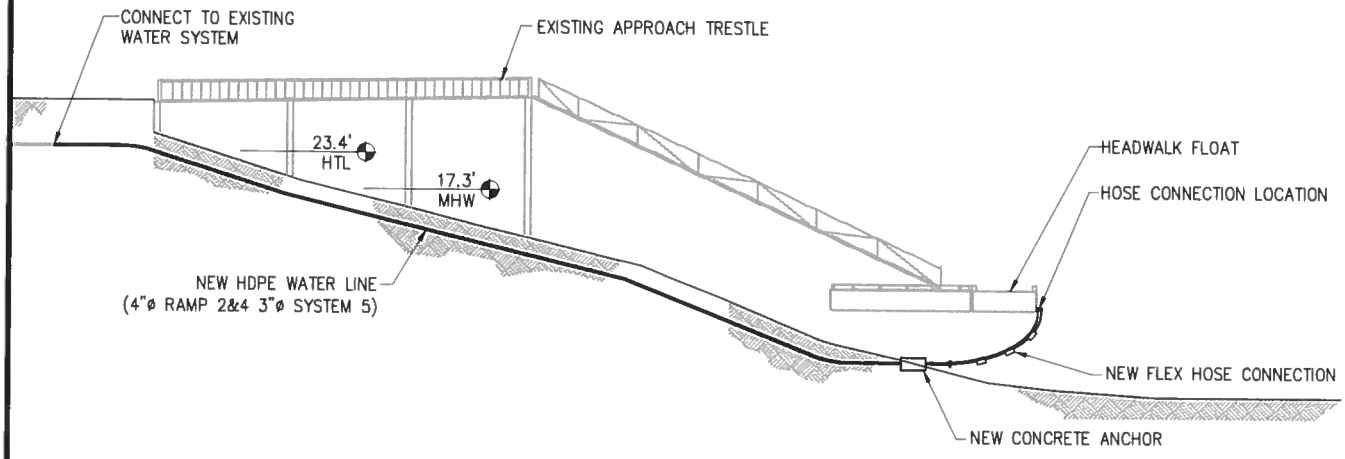
CITY OF HOMER
3575 HEATH ST.
HOMER, AK 99603

CITY OF HOMER SBH WATER LINE

IN: KACHEMAK BAY
BY: CITY OF HOMER, AK

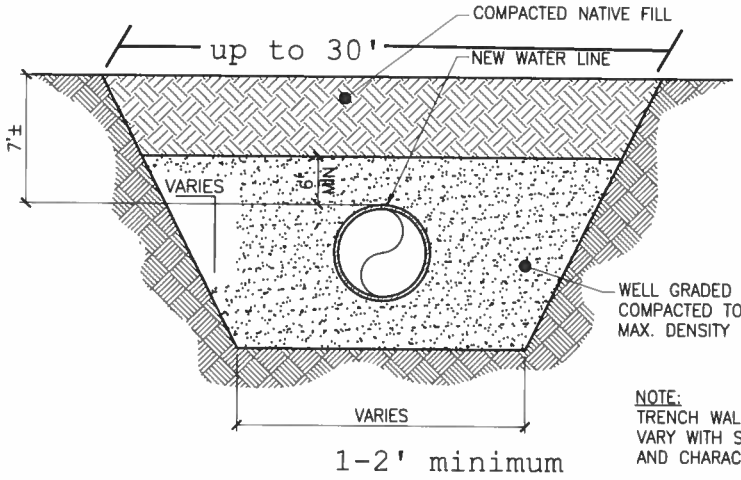
SEPTEMBER 2013 SHEET 2 of **3**

POA-1981-465, Kachemak Bay



TYPICAL WATERLINE SECTION

NTS



7' deep trench

TYPICAL TRENCH SECTION

NTS

PROPOSED ACTIVITY:
REPLACEMENT OF EXISTING WATER SYSTEM CONNECTION AND ADDITION OF NEW WATER SYSTEM CONNECTION

DATUM: MLLW 0'

SEC.35 T.6S R13W SEW.
SEC.36 T.6S R13W SEW.
SEC.2 T.7S R13W SEW.
SEC.1 T.7S R13W SEW.

TYPICAL SECTION

CITY OF HOMER
3575 HEATH ST.
HOMER, AK 99603

CITY OF HOMER SBH WATER LINE

IN: KACHEMAK BAY
BY: CITY OF HOMER, AK

SEPTEMBER 2013 SHEET 3 of **3**

POA-1981-465, Kachemak Bay

PLEASE DISPLAY THIS SIGN IN A PROMINENT LOCATION SO IT IS VISIBLE FROM THE RIVER. THIS SIGN SHOULD BE POSTED DURING ALL PHASES OF CONSTRUCTION.

KENAI RIVER CENTER

KRC# **10236**

RIVER CENTER 2013 PERMITTED PROJECT

Applicant / Agent: City of Homer

Authorized Work: Float Replacement

KPB Parcel:

Legal Description: Sections 35-36, T 6S, R 13W, S.M.; Sections 1-2, T 7S, R 13W, S.M.

Permits Issued:

☐	N/R	Expires	KPB Floodplain
☐	N/R	Expires	KPB Habitat Protection
☐	N/R	Expires	ANDR Park Use Permit
☑		Expires 12/31/2014	ADFG Division of Habitat

N/R - Not Required O-Other PC-Project Completion SL-Lifetime of Structure

COE #:

Questions regarding this permit should be directed to the Gilman River Center, (907) 260-4882

X. Submittals

(Due within two (2) days after bid)

CONTRACTOR'S QUESTIONNAIRE
NOTICE TO CONTRACTORS

Prior to Award, this questionnaire shall be completely filled out for the project upon which a bid is submitted.

A. FINANCIAL

1. Have you ever failed to complete a contract on account of insufficient resources? _____

2. Have you made sufficient arrangements to finance the work? _____

   If so, with whom and for what amount? _____

   _____

   If so, with what company? _____

B. EQUIPMENT

1. Set forth below the equipment which you have available for the work which you propose to do. This equipment should be listed in detail (General statements will not be accepted).

NO.	ITEMS	TYPE	SIZE/CAPACITY	PRESENT VALUE

2. Do you thoroughly understand that in case the contract is awarded to you, you may be required to use any or all of the equipment listed on the work covered by this contract?
   _____

3. Do you propose to purchase any equipment for use on this project should contract be awarded to you? If so, state type, quantity and approximate cost.
   _____

4. Do you propose to rent any equipment for this work? _____
   If so, state type, quantity, and reason for renting. _____
   _____
   _____

5. Have you made contracts or received firm offers for all necessary materials with the prices used in preparing your proposal? _____

6. Do you intend to plan to subcontract any of the work? _____
If so, what types or portions of the work. _____
_____
Approximate value $_____ Percent of total bid _____

C. EXPERIENCE

1. How many years has your organization been in business as a general contractor under your present business name? _____

2. How many years experience in construction work has your organization had:

a) as a General Contractor _____.
b) as a Subcontractor _____.

3. List previous contracts you have completed of a similar nature to this proposed contract:

a) _____
b) _____
c) _____
d) _____
e) _____

4. List projects which you currently have under contract or expect to have under contract during the life of this contract:

a) _____
b) _____
c) _____

Use additional sheets as necessary.

5. List your staff you plan to use on this project and the position they will fill for this project (include managerial and clerical personnel that will provide support services).

STAFF MEMBER POSITION

_____

_____

_____

_____

_____

Signature: _____ Title: _____

JOINT VENTURE

1. Joint Venture Agreement

2. A statement signed by authorized person of each party to the joint venture.

3. Each party to the joint venture shall comply with the requirements for corporations, partnerships or individuals, as applicable.

PARTNERSHIP

1. Partnership Agreement

2. Statement signed by all partners granting authority to the partner signing the Bid.

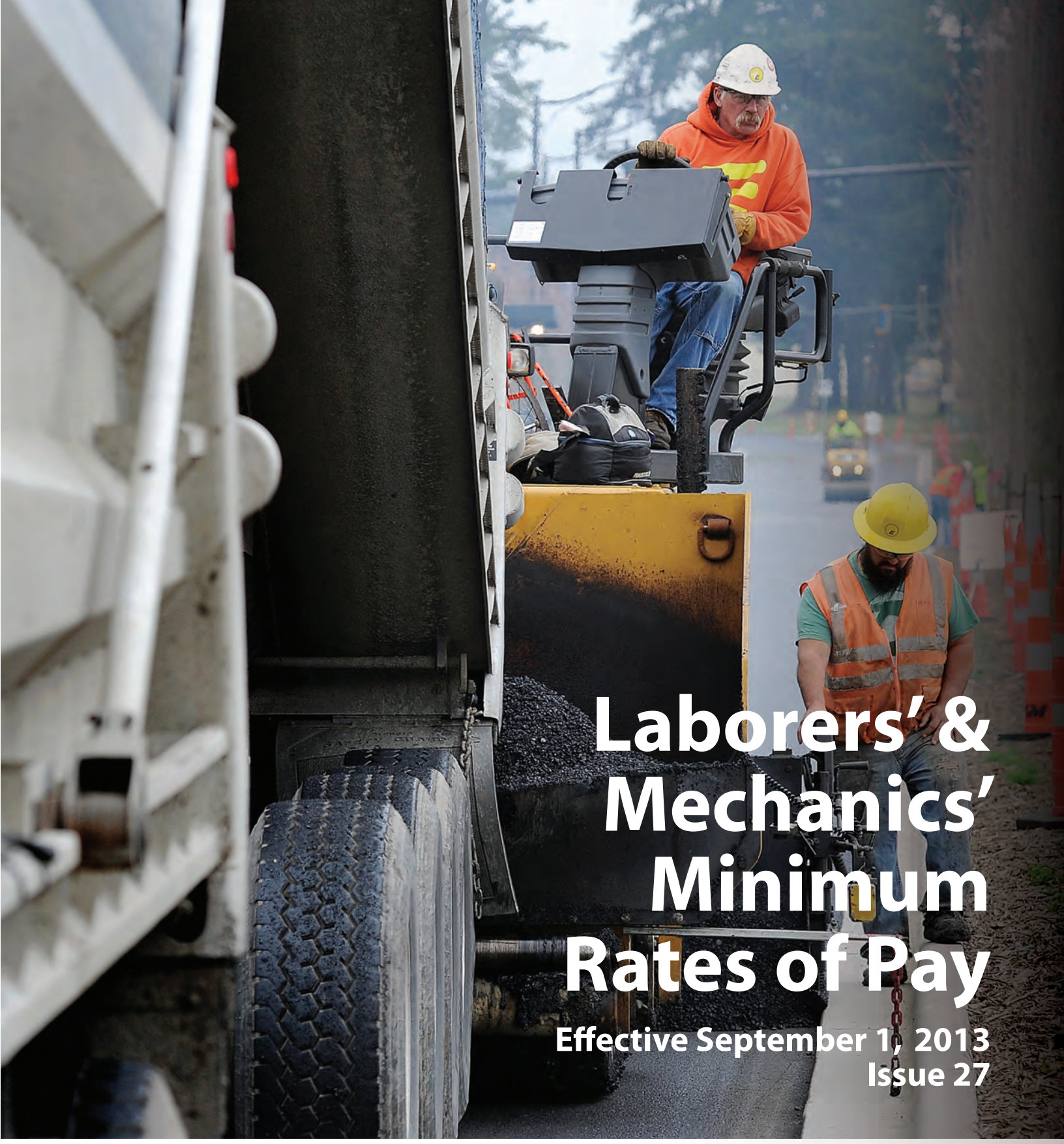
CORPORATIONS

1. Articles of Incorporation – most recent.

2. By-Laws – most recent.

3. Resolution of the Board of Directors granting the authority to the officer signing on behalf of the corporation.

XI. State of Alaska Labor Rates



Laborers' & Mechanics' Minimum Rates of Pay

Effective September 1, 2013
Issue 27

Title 36. Public Contracts
AS 36.05 & AS 36.10
Wage & Hour Administration
Pamphlet No. 600

ALASKA DEPARTMENT OF LABOR
& WORKFORCE DEVELOPMENT

THE STATE of ALASKA
GOVERNOR SEAN PARNELL

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, 2013

TO ALL CONTRACTING AGENCIES:

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

This pamphlet identifies current prevailing wage rates and resident hire classifications for public construction contracts (any construction projects awarded by the State of Alaska or its political subdivisions, such as local governments and certain non-profit organizations).

Because these rates may change, this publication is printed in the spring and fall of every year, so please be sure you are using the appropriate rates. The rates published in this edition become effective September 1, 2013.

All projects with a final bid date of September 11, 2013, or later, must pay the prevailing wage rates contained in this pamphlet. As the law now provides, these rates will remain stable during the life of a contract or for 24 calendar months, whichever is shorter. **The date the prime contract is awarded is the date from which the 24 months will be counted.** 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", as used herein, means the signed contract that resulted from the original bid and any amendments, including changes of work scope, additions, extensions, change orders, and other instruments agreed to by the parties that have not been subject to subsequent open bid procedures.

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

For additional copies of this pamphlet, contact the nearest office of the Division of Labor Standards and Safety, Wage and Hour office or visit the Internet site at:

http://labor.state.ak.us/lss/pamp600.htm

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

Sincerely,

Dianne Blumer

Dianne Blumer
Commissioner

Table of Contents

Excerpts from Alaska Law

Additional Information

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

EXCERPTS FROM ALASKA LAW

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

Sec. 36.05.005. Applicability.

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

Sec. 36.05.010. Wage rates on public construction.

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

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

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

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

(a) Before commencing work on a public construction contract, the person entering into the contract with a contracting agency shall designate a primary contractor for purposes of this section. Before work commences, the primary contractor shall file a notice of work with the Department of Labor and Workforce Development. The notice of work must list work to be performed under the public construction contract by each contractor who will perform any portion of work on the contract and the contract price being paid to each contractor. The primary contractor shall pay all filing fees for each contractor performing work on the contract, including a filing fee based on the contract price being paid for work performed by the primary contractor's employees. The filing fee payable shall be the sum of all fees calculated for each contractor. The filing fee shall be one percent of each contractor's contract price. The total filing fee payable by the primary contractor under this subsection may not exceed $5,000. In this subsection, "contractor" means an employer who is using employees to perform work on the public construction contract under the contract or a subcontract.

(b) Upon completion of all work on the public construction contract, the primary contractor shall file with the Department of Labor and Workforce Development a notice of completion together with payment of any additional filing fees owed due to increased contract amounts. Within 30 days after the department's receipt of the primary contractor's notice of completion, the department shall inform the contracting agency of the amount, if any, to be withheld from the final payment.

(c) A contracting agency

(1) may release final payment of a public construction contract to the extent that the agency has received verification from the Department of Labor and Workforce Development that

(A) the primary contractor has complied with (a) and (b) of this section;

(B) the Department of Labor and Workforce Development is not conducting an investigation under this title; and

(C) the Department of Labor and Workforce Development has not issued a notice of a violation of this chapter to the primary contractor or any other contractors working on the public construction contract; and

(2) shall withhold from the final payment an amount sufficient to pay the department's estimate of what may be needed to compensate the employees of any contractors under investigation on this construction contract, and any unpaid filing fees.

(d) The notice and filing fee required under (a) of this section may be filed after work has begun if
   (1) The public construction contract is for work undertaken in immediate response to an emergency; and
   (2) The notice and fees are filed not later than 14 days after the work has begun.

(e) A false statement made on a notice required by this section is punishable under AS 11.56.210.

Sec. 36.05.060. Penalty for violation of this chapter.

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

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

(a) The advertised specifications for a public construction contract that requires or involves the employment of mechanics, laborers, or field surveyors must contain a provision stating the minimum wages to be paid various classes of laborers, mechanics, or field surveyors and that the rate of wages shall be adjusted to the wage rate under AS 36.05.010.

(b) Repealed by §17 ch 142 SLA 1972.

(c) A public construction contract under (a) of this section must contain provisions that
   (1) the contractor or subcontractors of the contractor shall pay all employees unconditionally and not less than once a week;
   (2) wages may not be less than those stated in the advertised specifications, regardless of the contractual relationship between the contractor or subcontractors and laborers, mechanics, or field surveyors;
   (3) the scale of wages to be paid shall be posted by the contractor in a prominent and easily accessible place at the site of the work;
   (4) the state or a political subdivision shall withhold so much of the accrued payments as is necessary to pay to laborers, mechanics, or field surveyors employed by the contractor or subcontractors the difference between
      (A) the rates of wages required by the contract to be paid laborers, mechanics, or field surveyors on the work; and
      (B) the rates of wages in fact received by laborers, mechanics, or field surveyors.

Sec. 36.05.080. Failure to pay agreed wages.

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

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

(a) The state disbursing officer in the case of a state public construction contract and the local fiscal officer in the case of a political subdivision public construction contract shall pay directly to laborers, mechanics, or field surveyors from accrued payments withheld under the terms of the contract the wages due laborers, mechanics, or field surveyors under AS 36.05.070.

(b) The state disbursing officer or the local fiscal officer shall distribute to all departments of the state government and to all political subdivisions of the state a list giving the names of persons who have disregarded their obligations to employees. A person appearing on this list and a firm, corporation,

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

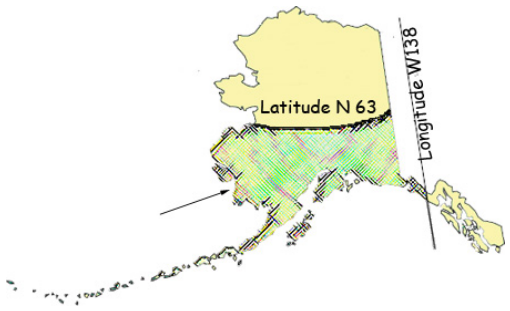
Sec. 36.05.900. Definition.
In this chapter, "contracting agency" means the state or a political subdivision of the state that has entered into a public construction contract with a contractor.

ADDITIONAL INFORMATION

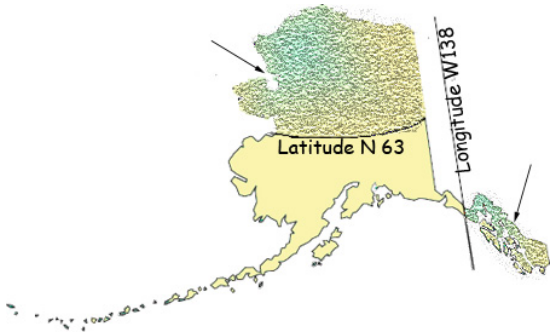
LABORER CLASSIFICATION CLARIFICATION

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

S1201-S1206



N1201-N1206



ACCOMMODATIONS AND PER DIEM

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

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

Employer-Provided Camp or Suitable Accommodations

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

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

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

Per Diem

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

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

APPRENTICE HIRING REQUIREMENTS

On July 24, 2005, Administrative Order No. 226 established a 15 percent goal for hiring apprentices in certain job categories on highway, airport, harbor, dam, tunnel, utility or dredging projects awarded by the Alaska Department of Transportation and Public Facilities that exceed $2.5 million. This Order will apply to all projects in the referenced categories that are advertised after September 1, 2005. On these projects, the hours worked by apprentices will be compared to the hours worked by journeyman level workers to determine if the 15 percent goal has been met. This on-the-job training goal is critical to ensure that the Alaska work force is prepared for the future. For additional details, contact the nearest Wage and Hour office at the address listed on Page xi of this publication. Administrative Order No. 226 may be viewed in its entirety on the Internet at http://www.gov.state.ak.us/admin-orders/226.html or call any Wage and Hour office to receive a copy.

APPRENTICE RATES

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

FRINGE BENEFIT PLANS

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

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

SPECIAL PREVAILING WAGE RATE DETERMINATION

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

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

Requests made pursuant to the above should be addressed to:

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

LABOR STANDARDS REGULATIONS
NOTICE REQUEST

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

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

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

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

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

❒ Wage and Hour Title 23 Employment Practices
❒ Minimum Wage & Overtime Poster
❒ Child Labor Poster
❒ Public Construction Pamphlet
❒ Public Construction Wage Rates
❒ Child Labor Pamphlet

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

Name: _____

Mailing Address: _____

_____

_____

_____

Email Address: _____

EMPLOYMENT PREFERENCE INFORMATION
(EFFECTIVE August 16, 2013)

By authority of AS 36.10.150 and 8 AAC 30.064, the Commissioner of Labor and Workforce Development has determined the 15 boroughs and census areas listed below to be Zones of Underemployment. A Zone of Underemployment requires that Alaska residents who are eligible under AS 36.10.140 be given a minimum of 90 percent employment preference on public works contracts throughout the state in certain job classifications. This hiring preference applies on a project-by-project, craft-by-craft or occupational basis and must be met each workweek by each contractor/subcontractor.

For additional information about the Alaska resident hire requirements, contact the nearest Wage and Hour Office in Anchorage at (907) 269-4900, in Fairbanks at (907) 451-2886 or in Juneau at (907) 465-4248.

The following classifications qualify for a minimum of 90 percent Alaska resident hire preference:

Aleutians East Borough: Plumbers and Pipefitters
Aleutians West Borough: Painters
Bethel Census Area: Culinary Workers, Foremen and Supervisors, Mechanics, Painters, Surveyors, Tug Boat Workers
Denali Borough: Carpenters
Dillingham Census Area: Carpenters, Culinary Workers, Electricians, Equipment Operators, Foremen and Supervisors, Laborers, Mechanics, Truck Drivers, Tug Boat Workers
Hoonah-Angoon Census Area: Carpenters, Culinary Workers, Electricians, Equipment Operators, Foremen and Supervisors, Laborers, Mechanics, Painters, Truck Drivers
Nome Census Area: Carpenters, Culinary Workers, Electricians, Equipment Operators, Foremen and Supervisors, Laborers, Mechanics, Surveyors, Truck Drivers, Tug Boat Workers, Welders
Northwest Arctic Borough: Carpenters, Culinary Workers, Electricians, Equipment Operators, Foremen and Supervisors, Plumbers and Pipefitters, Surveyors, Truck Drivers, Tug Boat Workers, Welders
Petersburg Borough: Culinary Workers, Engineers and Architects, Foremen and Supervisors, Laborers
Prince of Wales-Hyder Census Area: Carpenters, Culinary Workers, Electricians, Equipment Operators, Foremen and Supervisors, Laborers, Mechanics, Surveyors, Truck Drivers, Welders
Skagway: None
Southeast Fairbanks Census Area: Carpenters, Culinary Workers, Equipment Operators, Laborers, Painters, Truck Drivers
Wade Hampton Census Area: Carpenters, Electricians, Engineers and Architects, Mechanics, Roofers
Yakutat: None
Yukon-Koyukuk Census Area: Culinary Workers, Electricians, Foremen and Supervisors, Painters, Plumbers and Pipefitters, Surveyors, Truck Drivers, Tug Boat Workers, Welders

This determination is effective August 16, 2013, and remains in effect until June 30, 2015.

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

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

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

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

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

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

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

Anchorage	Juneau	Fairbanks
1251 Muldoon Road, Suite 113 Anchorage, Alaska 99504-2098 Phone: (907) 269-4900 Email: anchorage.lss-wh@alaska.gov	1111 W. 8th Street, Suite 302 Juneau, Alaska 99801 Phone: (907) 465-4842 Email: juneau.lss-wh@alaska.gov	Regional State Office Building 675 7th Ave., Station J-1 Fairbanks, Alaska 99701-4593 Phone: (907) 451-2886 Email: fairbanks.lss@alaska.gov

DEBARMENT LIST

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

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

Company Name	Date of Debarment	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								
						VAC	**SAF**	
A0101	Boilermaker (journeyman)	42.97	8.57	14.28	0.75	3.00	0.34	69.91
Bricklayers & Blocklayers								
	**See note on last page if remote site							
						L&M		
A0201	Blocklayer	39.03	9.53	8.50	0.55	0.15	0.28	58.04
	Bricklayer							
	Marble or Stone Mason							
	Refractory Worker (Firebrick, Plastic, Castable, and Gunite Refractory Applications)							
	Terrazzo Worker							
	Tile Setter							
						L&M		
A0202	Tuck Pointer Caulker	39.03	9.53	8.50	0.55	0.15	0.28	58.04
	Cleaner (PCC)							
						L&M		
A0203	Marble & Tile Finisher	33.27	9.53	8.50	0.55	0.15	0.28	52.28
	Terrazzo Finisher							
						L&M		
A0204	Torginal Applicator	37.14	9.53	8.50	0.55	0.15	0.28	56.15
Carpenters, Statewide								
	**See note on last page if remote site							
						L&M	**SAF**	
A0301	Carpenter (journeyman)	36.59	9.78	12.11	0.70	0.10	0.15	59.43
	Lather/Drywall/Acoustical							
Cement Masons, Region I (North of N63 latitude)								
	**See note on last page if remote site							
						L&M		
N0401	Group I, including:	34.69	6.91	11.80	0.85	0.10		54.35
	Application of Sealing Compound							
	Application of Underlayment							
	Building, General							
	Cement Mason (journeyman)							
	Concrete							
	Concrete Paving							
	Curb & Gutter, Sidewalk							
	Curing of All Concrete							
	Grouting & Caulking of Tilt-Up Panels							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; ONT=overnight; 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, Region I (North of N63 latitude)							
	**See note on last page if remote site						
						L&M	
N0401	Group I, including:	34.69	6.91	11.80	0.85	0.10	54.35
	Grouting of All Plates						
	Patching Concrete						
	Screed Pin Setter						
	Spackling/Skim Coating						
						L&M	
N0402	Group II, including:	34.69	6.91	11.80	0.85	0.10	54.35
	Form Setter						
						L&M	
N0403	Group III, including:	34.69	6.91	11.80	0.85	0.10	54.35
	Concrete Saw (self-powered)						
	Curb & Gutter Machine						
	Floor Grinder						
	Pneumatic Power Tools						
	Power Chipping & Bushing						
	Sand Blasting Architectural Finish						
	Screed & Rodding Machine Operator						
	Troweling Machine Operator						
						L&M	
N0404	Group IV, including:	34.69	6.91	11.80	0.85	0.10	54.35
	Application of All Composition Mastic						
	Application of All Epoxy Material						
	Application of All Plastic Material						
	Finish Colored Concrete						
	Gunite Nozzleman						
	Hand Powered Grinder						
	Tunnel Worker						
						L&M	
N0405	Group V, including:	34.94	6.91	11.80	0.85	0.10	54.60
	Plasterer						
Cement Masons, Region II (South of N63 latitude)							
	**See note on last page if remote site						
						L&M	
S0401	Group I, including:	34.44	6.91	11.80	0.85	0.10	54.10
	Application of Sealing Compound						
	Application of Underlayment						
	Building, General						
	Cement Mason (journeyman)						
	Concrete						
	Concrete Paving						
	Curb & Gutter, Sidewalk						
	Curing of All Concrete						

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
Cement Masons, Region II (South of N63 latitude)							
	**See note on last page if remote site						
						L&M	
S0401	Group I, including:	34.44	6.91	11.80	0.85	0.10	54.10
	Grouting & Caulking of Tilt-Up Panels						
	Grouting of All Plates						
	Patching Concrete						
	Screed Pin Setter						
	Spackling/Skim Coating						
						L&M	
S0402	Group II, including:	34.44	6.91	11.80	0.85	0.10	54.10
	Form Setter						
						L&M	
S0403	Group III, including:	34.44	6.91	11.80	0.85	0.10	54.10
	Concrete Saw (self-powered)						
	Curb & Gutter Machine						
	Floor Grinder						
	Pneumatic Power Tools						
	Power Chipping & Bushing						
	Sand Blasting Architectural Finish						
	Screed & Rodding Machine Operator						
	Troweling Machine Operator						
						L&M	
S0404	Group IV, including:	34.44	6.91	11.80	0.85	0.10	54.10
	Application of All Composition Mastic						
	Application of All Epoxy Material						
	Application of All Plastic Material						
	Finish Colored Concrete						
	Gunite Nozzleman						
	Hand Powered Grinder						
	Tunnel Worker						
						L&M	
S0405	Group V, including:	34.69	6.91	11.80	0.85	0.10	54.35
	Plasterer						
Culinary Workers * See note on last page							
						LEG	
A0501	Baker/Cook	24.67	5.37	5.73		0.05	35.82
						LEG	
A0503	General Helper	21.62	5.37	5.73		0.05	32.77
	Housekeeper						
	Janitor						
	Kitchen Helper						
						LEG	
A0504	Head Cook	25.22	5.37	5.73		0.05	36.37

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Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
Culinary Workers * See note on last page							
						LEG	
A0505	Head Housekeeper	21.54	5.37	5.38		0.05	32.34
	Head Kitchen Help						
Dredgemen							
	**See note on last page if remote site						
						L&M	
A0601	Assistant Engineer, including:	37.51	9.10	9.75	1.00	0.10	57.46
	Craneman						
	Electrical Generator Operator (primary pump/power barge/dredge)						
	Engineer						
	Welder						
						L&M	
A0602	Assistant Mate (deckhand)	36.35	9.10	9.75	1.00	0.10	56.30
						L&M	
A0603	Fireman	36.79	9.10	9.75	1.00	0.10	56.74
						L&M	
A0605	Leverman Clamshell	40.04	9.10	9.75	1.00	0.10	59.99
						L&M	
A0606	Leverman Hydraulic	38.28	9.10	9.75	1.00	0.10	58.23
						L&M	
A0607	Mate & Boatman	37.51	9.10	9.75	1.00	0.10	57.46
						L&M	
A0608	Oiler (dredge)	36.79	9.10	9.75	1.00	0.10	56.74
Electricians							
						L&M	LEG
A0701	Inside Cable Splicer	39.87	10.53	12.60	0.85	0.20	0.15 64.20
						L&M	LEG
A0702	Inside Journeyman Wireman, including:	38.12	10.53	12.54	0.85	0.20	0.15 62.39
	Communications and Technicians						
						L&M	LEG
A0703	Power Cable Splicer	50.52	10.53	15.67	0.85	0.20	0.15 77.92
						L&M	LEG
A0704	Tele Com Cable Splicer	47.03	10.53	14.56	0.85	0.20	0.15 73.32
						L&M	LEG
A0705	Power Journeyman Lineman, including:	48.77	10.53	15.61	0.85	0.20	0.15 76.11
	Power Equipment Operator						
	Technician						
						L&M	LEG
A0706	Tele Com Journeyman Lineman, including:	45.28	10.53	14.51	0.85	0.20	0.15 71.52
	Technician						
	Tele Com Equipment Operator						

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Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits		THR
Electricians								
						L&M	**LEG**	
A0707	Straight Line Installer - Repairman	45.28	10.53	14.51	0.85	0.20	0.15	71.52
						L&M	**LEG**	
A0708	Powderman	46.77	10.53	15.55	0.85	0.20	0.15	74.05
						L&M	**LEG**	
A0710	Material Handler	25.90	9.89	4.53	0.15	0.15	0.15	40.77
						L&M	**LEG**	
A0712	Tree Trimmer Groundman	25.45	10.53	9.41	0.15	0.15	0.15	45.84
						L&M	**LEG**	
A0713	Journeyman Tree Trimmer	34.12	10.53	9.67	0.15	0.15	0.15	54.77
						L&M	**LEG**	
A0714	Vegetation Control Sprayer	37.57	10.53	9.78	0.15	0.15	0.15	58.33
Elevator Workers								
						L&M	**VAC**	
A0802	Elevator Constructor	34.70	11.88	12.71	0.60	0.30	3.16	63.35
						L&M	**VAC**	
A0803	Elevator Constructor Mechanic	49.58	11.88	12.71	0.60	0.30	5.51	80.58
Heat & Frost Insulators/Asbestos Workers								
	**See note on last page if remote site							
						SAF		
A0902	Asbestos Abatement-Mechanical Systems	34.88	8.44	9.51	0.60	0.12		53.55
						SAF		
A0903	Asbestos Abatement/General Demolition All Systems	34.88	8.44	9.51	0.60	0.12		53.55
						SAF		
A0904	Insulator, Group II	34.88	8.44	9.51	0.60	0.12		53.55
						SAF		
A0905	Fire Stop	34.88	8.44	9.51	0.60	0.12		53.55
IronWorkers								
	**See note on last page if remote site							
						L&M	**IAF**	
A1101	Ironworkers, including:	33.55	7.58	17.00	0.95	0.43	0.10	59.61
	Bender Operators							
	Bridge & Structural							
	Machinery Mover							
	Ornamental							
	Reinforcing							
	Rigger							
	Sheeter							
	Signalman							
	Stage Rigger							
	Toxic Haz-Mat Work							

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Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits		THR
IronWorkers								
	**See note on last page if remote site							
						L&M	**IAF**	
A1101	Ironworkers, including:	33.55	7.58	17.00	0.95	0.43	0.10	59.61
	Welder							
						L&M	**IAF**	
A1102	Helicopter	34.55	7.58	17.00	0.95	0.43	0.10	60.61
	Tower (energy producing windmill type towers to include nacelle and blades)							
						L&M	**IAF**	
A1103	Fence/Barrier Installer	30.05	7.58	16.75	0.95	0.43	0.10	55.86
	Guard Rail Installer							
						L&M	**IAF**	
A1104	Guard Rail Layout Man	30.79	7.58	16.75	0.95	0.43	0.10	56.60
Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)								
	**See note on last page if remote site							
						L&M	**LEG**	
N1201	Group I, including:	29.25	7.24	13.73	1.20	0.20	0.15	51.77
	Asphalt Worker (shovelman, plant crew)							
	Brush Cutter							
	Camp Maintenance Laborer							
	Carpenter Tender or Helper							
	Choke Setter, Hook Tender, Rigger, Signalman							
	Concrete Labor (curb & gutter, chute handler, grouting, curing, screeding)							
	Crusher Plant Laborer							
	Demolition Laborer							
	Ditch Digger							
	Dumpman							
	Environmental Laborer (hazard/toxic waste, oil spill)							
	Fence Installer							
	Fire Watch Laborer							
	Flagman							
	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							

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits		THR
Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)								
	**See note on last page if remote site							
						L&M	LEG	
N1201	Group I, including:	29.25	7.24	13.73	1.20	0.20	0.15	51.77
	Sandblast, Pot Tender							
	Saw Tender							
	Slurry Work							
	Stake Hopper							
	Steam Cleaner Operator							
	Steam Point or Water Jet Operator							
	Tank Cleaning							
	Utiliwalk & Utilidor Laborer							
	Watchman (construction projects)							
	Window Cleaner							
						L&M	LEG	
N1202	Group II, including:	30.25	7.24	13.73	1.20	0.20	0.15	52.77
	Burning & Cutting Torch							
	Cement or Lime Dumper or Handler (sack or bulk)							
	Choker Splicer							
	Chucktender (wagon, air-track & hydraulic drills)							
	Concrete Laborer (power buggy, concrete saws, pumpcrete nozzleman, vibratorman)							
	Culvert Pipe Laborer							
	Cured Inplace Pipelayer							
	Environmental Laborer (asbestos, marine work)							
	Foam Gun or Foam Machine Operator							
	Green Cutter (dam work)							
	Gunite Operator							
	Hod Carrier							
	Jackhammer or Pavement Breaker (more than 45 pounds)							
	Laser Instrument Operator							
	Laying of Mortarless Decorative Block (retaining walls, flowered decorative block over 4 feet - highway or landscape work)							
	Mason Tender & Mud Mixer (sewer work)							
	Pilot Car							
	Pipelayer Helper							
	Plasterer, Bricklayer & Cement Finisher Tender							
	Powderman Helper							
	Power Saw Operator							
	Railroad Switch Layout Laborer							
	Sandblaster							
	Scaffold Building & Erecting							
	Sewer Caulker							
	Sewer Plant Maintenance Man							
	Thermal Plastic Applicator							
	Timber Faller, Chainsaw Operator, Filer							

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits		THR
Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)								
	**See note on last page if remote site							
						L&M	LEG	
N1202	Group II, including:	30.25	7.24	13.73	1.20	0.20	0.15	52.77
	Timberman							
						L&M	LEG	
N1203	Group III, including:	31.15	7.24	13.73	1.20	0.20	0.15	53.67
	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	34.43	7.24	13.73	1.20	0.20	0.15	56.95
	Asphalt Raker, Asphalt Belly Dump Lay Down							
	Drill Doctor (in the field)							
	Driller (including, but not limited to, wagon drills, air-track drills, hydraulic drills)							
	Licensed Powderman							
	Pioneer Drilling & Drilling Off Tugger (all type drills)							
	Pipelayers							
						L&M	LEG	
N1205	Group IV	18.82	7.24	13.73	1.20	0.20	0.15	41.34
	Final Building Cleanup							
	Permanent Yard Worker							
						L&M	LEG	
N1206	Group IIIB	35.26	7.24	13.73	1.20	0.20	0.15	57.78
	Federally Licensed Powderman (Responsible Person in Charge)							
	Grade Checking (setting or transferring of grade marks, line and grade)							
Laborers (The area that is south of N63 latitude and west of W138 longitude)								
	**See note on last page if remote site							
						L&M	LEG	
S1201	Group I, including:	29.25	7.24	13.73	1.20	0.20	0.15	51.77
	Asphalt Worker (shovelman, plant crew)							
	Brush Cutter							
	Camp Maintenance Laborer							
	Carpenter Tender or Helper							
	Choke Setter, Hook Tender, Rigger, Signalman							
	Concrete Labor (curb & gutter, chute handler, grouting, curing, screeding)							
	Crusher Plant Laborer							

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 note on last page if remote site							
S1201	Group I, including:	29.25	7.24	13.73	1.20	0.20	0.15	51.77
	Demolition Laborer							
	Ditch Digger							
	Dumpman							
	Environmental Laborer (hazard/toxic waste, oil spill)							
	Fence Installer							
	Fire Watch Laborer							
	Flagman							
	Form Stripper							
	General Laborer							
	Guardrail Laborer, Bridge Rail Installer							
	Hydro-seeder Nozzleman							
	Laborer, Building							
	Landscaper or Planter							
	Laying of Mortarless Decorative Block (retaining walls, flowered decorative block 4 feet or less - highway or landscape work)							
	Material Handler							
	Pneumatic or Power Tools							
	Portable or Chemical Toilet Serviceman							
	Pump Man or Mixer Man							
	Railroad Track Laborer							
	Sandblast, Pot Tender							
	Saw Tender							
	Slurry Work							
	Stake Hopper							
	Steam Cleaner Operator							
	Steam Point or Water Jet Operator							
	Tank Cleaning							
	Utiliwalk & Utilidor Laborer							
	Watchman (construction projects)							
	Window Cleaner							
						L&M	LEG	
S1202	Group II, including:	30.25	7.24	13.73	1.20	0.20	0.15	52.77
	Burning & Cutting Torch							
	Cement or Lime Dumper or Handler (sack or bulk)							
	Choker Splicer							
	Chucktender (wagon, air-track & hydraulic drills)							
	Concrete Laborer (power buggy, concrete saws, pumpcrete nozzleman, vibratorman)							
	Culvert Pipe Laborer							
	Cured Inplace Pipelayer							
	Environmental Laborer (asbestos, marine work)							
	Foam Gun or Foam Machine Operator							

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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 note on last page if remote site							
						L&M	LEG	
S1202	Group II, including:	30.25	7.24	13.73	1.20	0.20	0.15	52.77
	Green Cutter (dam work)							
	Gunite Operator							
	Hod Carrier							
	Jackhammer or Pavement Breaker (more than 45 pounds)							
	Laser Instrument Operator							
	Laying of Mortarless Decorative Block (retaining walls, flowered decorative block over 4 feet - highway or landscape work)							
	Mason Tender & Mud Mixer (sewer work)							
	Pilot Car							
	Pipelayer Helper							
	Plasterer, Bricklayer & Cement Finisher Tender							
	Powderman Helper							
	Power Saw Operator							
	Railroad Switch Layout Laborer							
	Sandblaster							
	Scaffold Building & Erecting							
	Sewer Caulker							
	Sewer Plant Maintenance Man							
	Thermal Plastic Applicator							
	Timber Faller, Chainsaw Operator, Filer							
	Timberman							
						L&M	LEG	
S1203	Group III, including:	31.15	7.24	13.73	1.20	0.20	0.15	53.67
	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	34.43	7.24	13.73	1.20	0.20	0.15	56.95
	Asphalt Raker, Asphalt Belly Dump Lay Down							
	Drill Doctor (in the field)							
	Driller (including, but not limited to, wagon drills, air-track drills, hydraulic drills)							
	Licensed Powderman							
	Pioneer Drilling & Drilling Off Tugger (all type drills)							
	Pipelayers							

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 note on last page if remote site							
						L&M	**LEG**	
S1205	Group IV	18.82	7.24	13.73	1.20	0.20	0.15	41.34
	Final Building Cleanup							
	Permanent Yard Worker							
						L&M	**LEG**	
S1206	Group IIIB	35.26	7.24	13.73	1.20	0.20	0.15	57.78
	Federally Licensed Powderman (Responsible Person in Charge)							
	Grade Checking (setting or transferring of grade marks, line and grade)							
Millwrights								
						L&M		
A1251	Millwright (journeyman)	34.99	9.78	9.76	1.00	0.25	0.15	55.93
						L&M		
A1252	Millwright Welder	35.58	9.78	9.76	1.00	0.25	0.15	56.52
Painters, Region I (North of N63 latitude)								
	**See note on last page if remote site							
						L&M		
N1301	Group I, including:	29.85	7.55	11.10	0.83	0.07		49.40
	Brush							
	General Painter							
	Hand Taping							
	Hazardous Material Handler							
	Lead-Based Paint Abatement							
	Roll							
						L&M		
N1302	Group II, including:	30.37	7.55	11.10	0.83	0.07		49.92
	Bridge Painter							
	Epoxy Applicator							
	General Drywall Finisher							
	Hand/Spray Texturing							
	Industrial Coatings Specialist							
	Machine/Automatic Taping							
	Pot Tender							
	Sandblasting							
	Specialty Painter							
	Spray							
	Structural Steel Painter							
	Wallpaper/Vinyl Hanger							
N1304	Group IV, including:	36.16	7.55	10.61	0.80	0.05		55.17
	Glazier							
	Storefront/Automatic Door Mechanic							

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Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
Painters, Region I (North of N63 latitude)							
	**See note on last page if remote site						
N1305	Group V, including:	29.79	7.55	5.02	0.83	0.07	43.26
	Carpet Installer						
	Floor Coverer						
	Heat Weld/Cove Base						
	Linoleum/Soft Tile Installer						
Painters, Region II (South of N63 latitude)							
	**See note on last page if remote site						
						L&M	
S1301	Group I, including :	28.09	7.55	10.85	0.83	0.07	47.39
	Brush						
	General Painter						
	Hand Taping						
	Hazardous Material Handler						
	Lead-Based Paint Abatement						
	Roll						
	Spray						
						L&M	
S1302	Group II, including :	29.34	7.55	10.85	0.83	0.07	48.64
	General Drywall Finisher						
	Hand/Spray Texturing						
	Machine/Automatic Taping						
	Wallpaper/Vinyl Hanger						
						L&M	
S1303	Group III, including :	29.44	7.55	10.85	0.83	0.07	48.74
	Bridge Painter						
	Epoxy Applicator						
	Industrial Coatings Specialist						
	Pot Tender						
	Sandblasting						
	Specialty Painter						
	Structural Steel Painter						
						L&M	
S1304	Group IV, including:	36.16	7.55	9.86	0.83	0.07	54.47
	Glazier						
	Storefront/Automatic Door Mechanic						
						L&M	
S1305	Group V, including:	29.79	7.55	5.02	0.83	0.07	43.26
	Carpet Installer						
	Floor Coverer						
	Heat Weld/Cove Base						
	Linoleum/Soft Tile Installer						

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; ONT=overnight; 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 note on last page if remote site							
						L&M	IAF	
A1401	Piledriver	36.59	9.78	12.11	0.70	0.10	0.15	59.43
	Assistant Dive Tender							
	Carpenter/Piledriver							
	Rigger							
	Sheet Stabber							
	Skiff Operator							
						L&M	IAF	
A1402	Piledriver-Welder/Toxic Worker	37.59	9.78	12.11	0.70	0.10	0.15	60.43
						L&M	IAF	
A1403	Remotely Operated Vehicle Pilot/Technician	40.90	9.78	12.11	0.70	0.10	0.15	63.74
	Single Atmosphere Suit, Bell or Submersible Pilot							
						L&M	IAF	
A1404	Diver (working) ***See note on last page	80.70	9.78	12.11	0.70	0.10	0.15	103.54
						L&M	IAF	
A1405	Diver (standby) ***See note on last page	40.90	9.78	12.11	0.70	0.10	0.15	63.74
						L&M	IAF	
A1406	Dive Tender ***See note on last page	39.90	9.78	12.11	0.70	0.10	0.15	62.74
						L&M	IAF	
A1407	Welder (American Welding Society, Certified Welding Inspector)	42.15	9.78	12.11	0.70	0.10	0.15	64.99
Plumbers, Region I (North of N63 latitude)								
						L&M	S&L	
N1501	Journeyman Pipefitter	39.96	7.05	12.70	0.95	1.10		61.76
	Plumber							
	Welder							
Plumbers, Region II (South of N63 latitude)								
						L&M		
S1501	Journeyman Pipefitter	38.46	8.42	10.82	1.50	0.20		59.40
	Plumber							
	Welder							
Plumbers, Region IIA (1st Judicial District)								
						L&M		
X1501	Journeyman Pipefitter	36.02	12.22	11.00	2.40	0.24		61.88
	Plumber							
	Welder							
Power Equipment Operators								
	**See note on last page if remote site							

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Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
Power Equipment Operators							
	**See note on last page if remote site						
						L&M	
A1601	Group I, including:	38.28	9.10	9.75	1.00	0.10	58.23
	Asphalt Roller: Breakdown, Intermediate, and Finish						
	Back Filler						
	Barrier Machine (Zipper)						
	Beltcrete with Power Pack & similar conveyors						
	Bending Machine						
	Boat Coxswain						
	Bulldozer						
	Cableways, Highlines & Cablecars						
	Cleaning Machine						
	Coating Machine						
	Concrete Hydro Blaster						
	Cranes (45 tons & under or 150 feet of boom & under (including jib & attachments))						
	(a) Hydralifts or Transporters, (all track or truck type)						
	(b) Derricks						
	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						
	Helicopters						
	Hover Craft, Flex Craft, Loadmaster, Air Cushion, All-Terrain Vehicle, Rollagon, Bargecable, Nodwell, & Snow Cat						
	Hydro Ax, Feller Buncher & similar						
	Licensed Line & Grade						
	Loaders (2 1/2 yards through 5 yards, including all attachments):						
	(a) Forklifts (with telescopic boom & swing attachment)						
	(b) Front End & Overhead, (2-1/2 yards through 5 yards)						
	(c) Loaders, (with forks or pipe clamp)						
	(d) Loaders, (elevating belt type, Euclid & similar types)						
	Mechanic, Welder, Bodyman, Electrical, Camp & Maintenance Engineer						
	Micro Tunneling Machine						
	Mixers: Mobile type with hoist combination						
	Motor Patrol Grader						
	Mucking Machine: Mole, Tunnel Drill, Horizontal/Directional Drill Operator and/or Shield						
	Operator on Dredges						
	Piledriver Engineer, L.B. Foster, Puller or similar paving breaker						
	Plant Operator (Asphalt & Concrete)						

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
Power Equipment Operators							
	**See note on last page if remote site						
						L&M	
A1601	Group I, including:	38.28	9.10	9.75	1.00	0.10	58.23
	Power Plant, Turbine Operator 200 k.w & over (power plants or combination of power units over 300 k.w.)						
	Remote Controlled Equipment						
	Scraper (through 40 yards)						
	Service Oiler/Service Engineer						
	Shot Blast Machine						
	Shovels, Backhoes, Excavators with all attachments, and Gradealls (3 yards & under)						
	Sideboom (under 45 tons)						
	Spreaders, Blaw Knox, Cedarapids, Barber Greene, Slurry Machine						
	Sub Grader (Gurries, Reclaimer & similar types)						
	Tack Tractor						
	Truck Mounted Concrete Pump, Conveyor & Creter						
	Unlicensed Off-Road Hauler						
	Wate Kote Machine						
						L&M	
A1602	Group IA, including:	40.04	9.10	9.75	1.00	0.10	59.99
	Camera/Tool/Video Operator (Slipline)						
	Certified Welder, Electrical Mechanic, Camp Maintenance Engineer, Mechanic (over 10,000 hours)						
	Cranes (over 45 tons or 150 feet including jib & attachments)						
	(a) Clamshells & Draglines (over 3 yards)						
	(b) Tower Cranes						
	Licensed Water/Waste Water Treatment Operator						
	Loaders (over 5 yards)						
	Motor Patrol Grader, Dozer, Grade Tractor, Roto-Mill/Profiler (finish: when finishing to final grade and/or to hubs, or for asphalt)						
	Power Plants (1000 k.w. & over)						
	Quad						
	Scrapers (over 40 yards)						
	Screed						
	Shovels, Backhoes, Excavators with all attachments (over 3 yards)						
	Sidebooms (over 45 tons)						
	Slip Form Paver, C.M.I. & similar types						
						L&M	
A1603	Group II, including:	37.51	9.10	9.75	1.00	0.10	57.46
	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						
	Licensed Grade Technician						

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
Power Equipment Operators							
	**See note on last page if remote site						
						L&M	
A1603	Group II, including:	37.51	9.10	9.75	1.00	0.10	57.46
	Loaders (i.e., Elevating Grader & Material Transfer Vehicle)						
	Locomotives, Rod & Geared Engines						
	Mixers						
	Screening, Washing Plant						
	Sideboom (cradling rock drill, regardless of size)						
	Skidder						
	Trenching Machines (under 16 inches)						
	Water/Waste Water Treatment Operator						
						L&M	
A1604	Group III, including:	36.79	9.10	9.75	1.00	0.10	56.74
	"A" Frame Trucks, Deck Winches						
	Bombardier (tack or tow rig)						
	Boring Machine						
	Brooms, Power						
	Bump Cutter						
	Compressor						
	Farm Tractor						
	Forklift, Industrial Type						
	Gin Truck or Winch Truck (with poles when used for hoisting)						
	Grade Checker & Stake Hopper						
	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)						
	Straightening Machine						
	Tow Tractor						
						L&M	
A1605	Group IV, including:	30.58	9.10	9.75	1.00	0.10	50.53
	Crane Assistant Engineer/Rig Oiler						

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Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits		THR
Power Equipment Operators								
	**See note on last page if remote site							
						L&M		
A1605	Group IV, including:	30.58	9.10	9.75	1.00	0.10		50.53
	Drill Helper							
	Parts & Equipment Coordinator							
	Spotter							
	Steam Cleaner							
	Swamper (on trenching machines or shovel type equipment)							
Roofers								
	**See note on last page if remote site							
						L&M		
A1701	Roofer & Waterproofer	41.45	7.43	2.91	0.81	0.10	0.02	52.72
						L&M		
A1702	Roofer Material Handler	29.02	7.43	2.91	0.81	0.10	0.02	40.29
Sheet Metal Workers, Region I (North of N63 latitude)								
						L&M		
N1801	Sheet Metal Journeyman	44.93	8.30	10.34	1.32	0.25		65.14
	Air Balancing and duct cleaning of HVAC systems							
	Brazing, soldering or welding of metals							
	Demolition of sheet metal HVAC systems							
	Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work							
	Fabrication and installation of heating, ventilation and air conditioning ducts and equipment							
	Fabrication and installation of louvers and hoods							
	Fabrication and installation of sheet metal lagging							
	Fabrication and installation of stainless steel commercial or industrial food service equipment							
	Manufacture, fabrication assembly, installation and alteration of all ferrous and nonferrous metal work							
	Metal lavatory partitions							
	Preparation of drawings taken from architectural and engineering plans required for fabrication and erection of sheet metal work							
	Sheet Metal shelving							
	Sheet Metal venting, chimneys and breaching							
	Skylight installation							
Sheet Metal Workers, Region II (South of N63 latitude)								
						L&M		
S1801	Sheet Metal Journeyman	39.99	8.30	11.20	1.10	0.33		60.92
	Air Balancing and duct cleaning of HVAC systems							
	Brazing, soldering or welding of metals							

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Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
Sheet Metal Workers, Region II (South of N63 latitude)							
						L&M	
S1801	Sheet Metal Journeyman	39.99	8.30	11.20	1.10	0.33	60.92
	Demolition of sheet metal HVAC systems						
	Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work						
	Fabrication and installation of heating, ventilation and air conditioning ducts and equipment						
	Fabrication and installation of louvers and hoods						
	Fabrication and installation of sheet metal lagging						
	Fabrication and installation of stainless steel commercial or industrial food service equipment						
	Manufacture, fabrication assembly, installation and alteration of all ferrous and nonferrous metal work						
	Metal lavatory partitions						
	Preparation of drawings taken from architectural and engineering plans required for fabrication and erection of sheet metal work						
	Sheet Metal shelving						
	Sheet Metal venting, chimneys and breaching						
	Skylight installation						
Sprinkler Fitters							
						L&M	
A1901	Sprinkler Fitter	42.05	8.42	12.80	0.45	0.25	63.97
Surveyors							
	**See note on last page if remote site						
						L&M	
A2001	Chief of Parties	42.11	7.38	9.99	1.20	0.10	60.78
						L&M	
A2002	Party Chief	40.52	7.38	9.99	1.20	0.10	59.19
						L&M	
A2003	Line & Grade Technician/Office Technician	39.92	7.38	9.99	1.20	0.10	58.59
						L&M	
A2004	Associate Party Chief (including Instrument Person & Head Chain Person)	37.80	7.38	9.99	1.20	0.10	56.47
						L&M	
A2005	Stake Hop/Grademan	34.87	7.38	9.99	1.20	0.10	53.54
						L&M	
A2006	Chain Person (for crews with more than 2 people)	33.46	7.38	9.99	1.20	0.10	52.13
Truck Drivers							
	**See note on last page if remote site						
						L&M	
A2101	Group I, including:	38.89	7.38	9.99	1.20	0.10	57.56
	Air/Sea Traffic Controllers						

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Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
Truck Drivers							
	**See note on last page if remote site						
						L&M	
A2101	Group I, including:	38.89	7.38	9.99	1.20	0.10	57.56
	Ambulance/Fire Truck Driver (EMT certified)						
	Boat Coxswain						
	Captains & Pilots (air & water)						
	Deltas, Commanders, Rollagons, & similar equipment (when pulling sleds, trailers or similar equipment)						
	Dump Trucks (including rockbuggy & trucks with pups) over 40 yards up to & including 60 yards						
	Helicopter Transporter						
	Lowboys, including attached trailers & jeeps, up to & including 12 axles (over 12 axles or 150 tons to be negotiated)						
	Material Coordinator and Purchasing Agent						
	Ready-mix (over 12 yards up to & including 15 yards) (over 15 yards to be negotiated)						
	Semi with Double Box Mixer						
	Tireman, Heavy Duty/Fueler						
	Water Wagon (250 Bbls and above)						
						L&M	
A2102	Group 1A including:	40.16	7.38	9.99	1.20	0.10	58.83
	Dump Trucks (including rockbuggy & trucks with pups) over 60 yards up to & including 100 yards (over 100 yards to be negotiated)						
	Jeeps (driver under load)						
						L&M	
A2103	Group II, including:	37.63	7.38	9.99	1.20	0.10	56.30
	All Deltas, Commanders, Rollagons, & similar equipment						
	Construction and Material Safety Technician						
	Dump Trucks (including rockbuggy & trucks with pups) over 20 yards up to & including 40 yards						
	Lowboys (including attached trailers & jeeps up to & including 8 axles)						
	Mechanics						
	Partsman						
	Ready-mix (over 7 yards up to & including 12 yards)						
	Stringing Truck						
	Super Vac Truck/Cacasco Truck/Heat Stress Truck						
	Turn-O-Wagon or DW-10 (not self loading)						
						L&M	
A2104	Group III, including:	36.81	7.38	9.99	1.20	0.10	55.48
	Batch Trucks (8 yards & up)						
	Dump Trucks (including rockbuggy & trucks with pups) over 10 yards up to & including 20 yards						
	Expeditor (electrical & pipefitting materials)						
	Greaser - Shop						
	Oil Distributor Driver						
	Thermal Plastic Layout Technician						

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
Truck Drivers							
	**See note on last page if remote site						
						L&M	
A2104	Group III, including:	36.81	7.38	9.99	1.20	0.10	55.48
	Traffic Control Technician						
	Trucks/Jeeps (push or pull)						
						L&M	
A2105	Group IV, including:	36.23	7.38	9.99	1.20	0.10	54.90
	Air Cushion or similar type vehicle						
	All Terrain Vehicle						
	Boom Truck/Knuckle Truck (over 5 tons)						
	Buggymobile						
	Bull Lift & Fork Lift, Fork Lift with Power Boom & Swing Attachment (over 5 tons)						
	Bus Operator (over 30 passengers)						
	Combination Truck-Fuel & Grease						
	Compactor (when pulled by rubber tired equipment)						
	Dump Trucks (including Rockbuggy & trucks with pups up to & including 10 yards)						
	Dumpster						
	Expeditor (general)						
	Fire Truck/Ambulance Driver						
	Flat Beds, Dual Rear Axle						
	Foam Distributor Truck Dual Axle						
	Front End Loader with Fork						
	Gin Pole Truck, Winch Truck, Wrecker (truck mounted "A" frame manufactured rating over 5 tons)						
	Grease Truck						
	Hydro Seeder, Dual Axle						
	Hyster Operators (handling bulk aggregate)						
	Loadmaster (air & water operations)						
	Lumber Carrier						
	Ready-mix, (up to & including 7 yards)						
	Rigger (air/water/oilfield)						
	Semi or Truck & Trailer						
	Tireman, Light Duty						
	Track Truck Equipment						
	Vacuum Truck, Truck Vacuum Sweeper						
	Warehouseperson						
	Water Truck, Dual Axle						
	Water Wagon, Semi						
						L&M	
A2106	Group V, including:	35.47	7.38	9.99	1.20	0.10	54.14
	Batch Truck (up to & including 7 yards)						
	Boom Truck/Knuckle Truck (up to & including 5 tons)						
	Buffer Truck						

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
Truck Drivers							
	**See note on last page if remote site						
						L&M	
A2106	Group V, including:	35.47	7.38	9.99	1.20	0.10	54.14
	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						
	Gin Pole Truck, Winch Truck, Wrecker (truck mounted "A" frame manufactured rating 5 tons & under)						
	Gravel Spreader Box Operator on Truck						
	Hydro Seeders, Single axle						
	Pickups (pilot cars & all light-duty vehicles)						
	Rigger/Swamper						
	Tack Truck						
	Team Drivers (horses, mules, & similar equipment)						
	Water Truck (Below 250 Bbls)						
Tunnel Workers, Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)							
	**See note on last page if remote site						
						L&M	LEG	
N2201	Group I, including:	32.18	7.24	13.73	1.20	0.20	0.15	54.70
	Brakeman							
	Mucker							
	Nipper							
	Topman & Bull Gang							
	Tunnel Track Laborer							
						L&M	LEG	
N2202	Group II, including:	33.28	7.24	13.73	1.20	0.20	0.15	55.80
	Burning & Cutting Torch							
	Concrete Laborer							
	Jackhammer							
	Laser Instrument Operator							
	Nozzlemen, Pumpcrete or Shotcrete							
	Pipelayer Helper							
						L&M	LEG	
N2203	Group III, including:	34.27	7.24	13.73	1.20	0.20	0.15	56.79
	Miner							
	Retimberman							
						L&M	LEG	
N2204	Group IIIA, including:	37.87	7.24	13.73	1.20	0.20	0.15	60.39

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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 note on last page if remote site							
						L&M	LEG	
N2204	Group IIIA, including:	37.87	7.24	13.73	1.20	0.20	0.15	60.39
	Asphalt Raker, Asphalt Belly Dump Lay Down							
	Drill Doctor (in the field)							
	Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)							
	Licensed Powderman							
	Pioneer Drilling & Drilling Off Tugger (all type drills)							
	Pipelayer							
						L&M	LEG	
N2206	Group IIIB, including:	38.79	7.24	13.73	1.20	0.20	0.15	61.31
	Federally Licensed Powderman (Responsible Person in Charge)							
	Grade Checking (setting or transferring of grade marks, line and grade)							
Tunnel Workers, Laborers (The area that is south of N63 latitude and west of W138 longitude)								
	**See note on last page if remote site							
						L&M	LEG	
S2201	Group I, including:	32.18	7.24	13.73	1.20	0.20	0.15	54.70
	Brakeman							
	Mucker							
	Nipper							
	Topman & Bull Gang							
	Tunnel Track Laborer							
						L&M	LEG	
S2202	Group II, including:	33.28	7.24	13.73	1.20	0.20	0.15	55.80
	Burning & Cutting Torch							
	Concrete Laborer							
	Jackhammer							
	Laser Instrument Operator							
	Nozzlemen, Pumpcrete or Shotcrete							
	Pipelayer Helper							
						L&M	LEG	
S2203	Group III, including:	34.27	7.24	13.73	1.20	0.20	0.15	56.79
	Miner							
	Retimberman							
						L&M	LEG	
S2204	Group IIIA, including:	37.87	7.24	13.73	1.20	0.20	0.15	60.39
	Asphalt Raker, Asphalt Belly Dump Lay Down							
	Drill Doctor (in the field)							
	Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)							
	Licensed Powderman							
	Pioneer Drilling & Drilling Off Tugger (all type drills)							
	Pipelayer							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; ONT=overnight; 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	
Tunnel Workers, Laborers (The area that is south of N63 latitude and west of W138 longitude)								
	**See note on last page if remote site							
S2206	Group IIIB, including:	38.79	7.24	13.73	1.20	0.20	0.15	61.31
	Federally Licensed Powderman (Responsible Person in Charge)							
	Grade Checking (setting or transferring of grade marks, line and grade)							
Tunnel Workers, Power Equipment Operators								
	**See note on last page if remote site							
						L&M		
A2207	Group I	42.11	9.10	9.75	1.00	0.10		62.06
						L&M		
A2208	Group IA	44.04	9.10	9.75	1.00	0.10		63.99
						L&M		
A2209	Group II	41.26	9.10	9.75	1.00	0.10		61.21
						L&M		
A2210	Group III	40.47	9.10	9.75	1.00	0.10		60.42
						L&M		
A2211	Group IV	33.64	9.10	9.75	1.00	0.10		53.59

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

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

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