

CITY OF KOTZEBUE
ITB #15-12
SWAN LAKE HARBOR FACILITY IMPROVEMENTS

TO: All Plan Holders of Record

Date: February 6, 2015

SUBJECT: **Addendum No. 2**

Bid Opening: **FEBRUARY 18, 2015 @ 2:00PM**

This addendum forms a part of the contract documents and modifies the original contract documents for the above referenced project. **Acknowledge receipt of this Addendum in the space provided on the Bid Form.** Failure to do so may subject the bidder to disqualifications. **This addendum addresses as administrative clarifications and responses to bidder questions as well as technical clarifications and revisions concerning the plans and specifications.** Note that the following responses, clarifications and Bid Document Changes supersede any verbal answers to questions that may have been provided.

Administrative Items:

Note Bids Due 1:30pm FEBRUARY 18, 2015. Bid opening 2:00pm FEBRUARY 18, 2015

Questions during Bidding (As of February 6, 2015):

Q13. *Do you have the geotech report available in electronic form? Pages 239-426 of the whole bid doc package?*

Reply: See appendix B of the bid docs.

Q14. *The drawing of the light pole assembly is not to scale. Can you provide a scaled drawing of the clouded area on the attached Sheet E2.1? It is important to determine the dimensions required to ensure constructability. For example, there must be adequate clearance between the top of the concrete barrier and the bottom of the steel base plate to allow the use of slug wrenches for the turn of nut method of tightening the anchor bolt assemblies.*

Reply: The electrical plans and details are diagrammatic and not to scale; this is a constructability issue that the contractor is responsible for.

Q15. *May I please have a copy of the plan-holders list for the Kotzebue Swan Lake Boat Harbor project?*

Reply: Sent out to all plan holders on 1/23. Plan holders added after 1/23 have also received the list. This list will be send out periodically to Plan Holders

Q16. *Sheet E1.1 represents a "Boarding Float" at the launch ramp, and Sheet S2.0 indicates a cleat detail for a "Boarding Float". However, we do not see a Boarding Float represented anywhere else in the plan set, nor is it indicated on the bid schedule. Please clarify*

Reply: The Boarding Float was removed from E1.1 in Addendum 1 and the Detail is noted as "NOT USED" in Addendum 2

Q17. *The bid opening date was revised to February 18, 2012; please confirm the actual date is February 18, 2015.*

Reply: Confirmation of February 18, 2015 (noted as 2012 in the Addendum 1 Letter) was sent directly to the plan holders and is revised in Addendum 2 Letter.

Q18. *Correct the bid opening place to be City Hall, 258A Third Avenue, Kotzebue, Alaska instead of the Public Works Office.*

Reply: The Bid Delivery Location is changed in Addendum 2 to City Hall

Q19a. Follow up question for Addendum 1, Reply to Question 2. During the Pre-Bid meeting, you advised that the correct wind rating was listed on the Plan Sheet E2.1 Detail 2, 110 MPH with 1.3 Gust Factor. In Addendum 1, the response is 145MPH +1.3 Gust Factor. This standard is in excess of the previous conflicting design speeds listed on the plan sheet and in the specifications.

In discussions with an engineer with one of the composite pole manufacturers, this wind rating is a hurricane force wind rating and thus requiring that the poles be direct burial only. The foundation detail in the project is not for direct burial poles. Further, the engineer stated that the pole manufacturer does not determine the depth to which the pole must be buried. The design responsibility falls to the project engineers who have specific knowledge of the local soil conditions. He stated that the project engineers must determine the length of the pole portion to be buried and call out a schedule of back fill materials and a compaction schedule. Lastly, the engineer indicates that the composite pole cannot have the square concrete barrier encapsulating the first 3' of the pole above ground. This reduces the pole's bending performance.

Please provide pole direct burial specifications with design details, back fill material specifications, compaction specifications and alternate design to square reinforced concrete barrier cast around the pole. This information is necessary for electrical contractor and general contractors to properly price the installation of the poles and determine the overall length of the pole so that pole manufacturers can price the poles.

Reply: The. Spec 265600 section 2.3 B is replaced with: Wind Load: AASHTO "Standards Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals," 6th Edition, 2013, with the 2015 Interim Revisions (published in 2014--a free download from AASHTO), using the following parameters: • basic wind speed: 120 mph • recurrence interval: 50 years. For Pole foundation, Contractor to provide design of pole foundation based on provided geotechnical report.

Q19b. Additional information to #19. If the wind standard were 130 MPH +1.3 Gust Factor, the composite pole could be used on the existing foundation as shown in the plans. The bases of composite poles are made of two different materials bonded together. At 130 MPH the bond strength is adequate. But at 145 MPH + 1.3 Gust Factor, that bond is inadequate thus the need for direct burial of the composite pole base. Think of this as burying a fiberglass fishing pole base in the ground and the top of the pole is where the lights would get mounted. Now think of that fishing pole flexing in the wind all of the way down to the base in the ground to achieve maximum load strength. If you are fighting that big king salmon on your favorite fishing rod, the entire length of the rod acts as a shock absorber and works along with the strength of the line to help you land the fish. And this is why you hang onto the end of the rod. Now if you grab onto the rod higher up, you suddenly lose much of the fighting strength of the rod and risk losing that prize fish because now the full force of the fish is being exerted on a portion of the rod that is smaller in diameter and lower strength. That is why there cannot be a concrete parking barrier poured around the lower portion because it needs to flex in order for the full benefit of the composite structure to be realized. This all boils down to if the project spec is going to stand at 145 MPH +1.3 Gust Factor, then there must be new design work done for the direct burial of the composite pole base and new method (allowing full flex of the pole shaft) to protect the pole once installed. If the spec goes to 130 MPH +1.3, then the existing foundation is compatible with composite poles. If staying at 145 MPH +1.3 Gust Factor and round tapered steel poles are allowed as a substitute, then the existing foundation design and concrete protection are compatible. I am not advocating one way or the other, simply informing you that the current design of composite pole and 145MPH +1.3 Gust Factor cannot be built as designed in the documents.

If you would like the contact information of one of the composite pole manufacturer's engineers, I can provide that to you. This would allow you independent confirmation of the above information.

Reply: See response on Question 19

Q20. Sheet S1.4 Detail 1 – Floatation Billets are called out as 35"x35"x24" in the end of the float module, but called out at 35"x40"x24" further into the float? Are there varying sizes of foam within the floats or is this a typo? (Floats Billets all scale to 35"x35"x24").

Reply: Leader Revised on this sheet to note the end cells.

Q21. Sheet S2.0 Detail 5 – A detail is given for cleat attachments, however I can find nowhere that this detail is called out. How many cleats are to be included and where are they to be attached?

Reply: This detail has been noted as "NOT USED"

Q22. Section 316200-3.1 E- States a “heave” inspection is to occur after anchor piles are driven and directs to re-drive if needed. When is this inspection to occur? Is this intended for the entire construction/warranty period or a defined portion of time?

Reply: The City will provide Inspection of piling, or make arrangements with the Contractor for verification. The Contractor shall provide a minimum 7 day notice for inspection services which shall occur approximately 24 hours after installation. If heave is observed during the construction duration, the Contractor shall be required to re-drive if needed.

Q23. Special Provisions Section 4.07 mentions “Hours of Work” limitations but no daily limits. Can the contractor work 7 days per week with COK approval?

Reply: The Contractor may work 7 day a week 7am to 9pm. Work beyond these hours shall require approval by the City

Q24. Section 337173, 3.1, A- Make arrangements with Utility Company for electric service. Does the contractor or the City bear the costs incurred by the utility company for the service connection?

Reply: The City shall pay for the service connection. The Contractor shall schedule and arrange this effort.

Q25. Is this project exempt from any applicable City of Kotzebue taxes?

Reply: The project is not exempt from applicable taxes.

Q26. During the pre-bid conference, it was brought to our attention that areas of permafrost were encountered during the previous dredging project in Swan Lake. Is permafrost expected to be encountered during pile installation? If so, should our pile install number account for the additional costs to drive through the permafrost?

Reply: The piles are designed for non-permafrost conditions. We encountered frozen ground near the shoreline and on shore, however we believe that was a seasonal condition. Contractor will need to make provisions for seasonal variances depending on his proposed construction methodology.

Bid Document Changes:

The following corrections, changes, additions, deletions, revisions, and or clarifications are hereby made a part of the documents for the City of Kotzebue – Small Boat Harbor Facility Improvements. In case of conflicts between this Addendum and previously issued documents, this Addendum shall take precedence.

Plans:

1	Plan Sheet S1.4	Leader for End Floatation extended
2	Plan Sheet 2.0	Detail 3 “NOT USED”

Specifications:

	Invitation For Bids	Submission Location of Bid to be at CITY HALL
	Spec 26 56 00 Exterior Lighting	Section 2.3 Lighting Poles – Wind Load revised

End of Addendum 2

1. INVITATION FOR BIDS

NAME AND LOCATION OF PROJECT

CITY OF KOTZEBUE

Swan Lake Harbor Facility Improvements, Kotzebue, Alaska

CONTRACTING OFFICER

Derek Martin City Manager

DESCRIPTION OF WORK: To furnish, install and provide all materials, labor and equipment necessary to construct a new small boat harbor in Swan Lake. The work includes, providing a new float system, providing a chain and driven pile anchor float restraint system, providing a sheet pile bulkhead, and other work. The work also includes electrical and lighting for the harbor.

PRE-BID CONFERENCE:

A pre-bid conference will be held on **January 20, 2015 at 2:00 PM** at the office of the Engineer URS/AECOM located at 700 G Street, Suite 500, Anchorage AK 99501. 907-562-3366. All bidders are required to attend. Bidders are encouraged to attend in person; however teleconference attendance may be arranged in advance. Bidders will need to check in with Building security for access.

BID DOCUMENTS:

Bid documents are available for purchase at "The Plans Room" at 4831 Old Seward Hwy 201, Anchorage, AK 99503 Phone: (907) 563-2029; or with prior arrangement at the office of the Engineer : (907) 562-3366 AECOM/ URS Alaska 700 G Street, Suite 500, Anchorage, Alaska 99501, contact Robin Krumm or Elizabeth Greer. A copy reproduction fee (plus postage for mail requests), will be charged for hardcopies of bid documents. Electronic copies will be available on the City Website at no charge at www.cityofkotzebue.com

BID OPENING:

Bids will be opened publicly on **February 18, at 2:00 pm** at the City of Kotzebue Public works Office, (907) 442-3401. A Call-in phone number is provided for those who wish to hear the results: **1-800-315-6338** and enter participant access code; **75893**.

Bids, amendments, or withdrawals **must be received no later than 30 minutes prior to the scheduled time of bid opening (i.e. 1:30pm)** at the above specified address. Faxes of bids, amendments, or withdrawals will not be accepted.

SUBMISSION OF BIDS:

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

*BID FOR:
Swan Lake Harbor
Facility Improvements*

*City of Kotzebue
City Hall
258A Third Avenue
Kotzebue, AK 99752.*

The estimated price range for this contract is less than \$4,000,000.

Addendum 2

The City of Kotzebue intends to award the full contract. However, if all bids exceed the funds available, the City may reduce the scope of work and re-bid the project on short notice and bid time with those qualified bidders that responded to the initial Invitation for Bids.

Bidders are encouraged to consider **Value Added Alternatives** in accordance with the Special Provision Section 4.3. The City will consider modifications to the design and or details which will enhance the performance, reduce the maintenance or facilitate operations of the Harbor. An allowance is included in the contract to facilitate implementation of approved change. Similarly, the Contractor may propose cost saving alternatives for approval.

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

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

All questions relating to bid procedures or other aspects of this project should be directed Elizabeth Greer, AECOM/URS at **Elizabeth.Greer@URS.com** ; 907-261-6750. Emails shall include the name of the Project in the Subject Line.

PLAN HOLDER REGISTRATION:

All interested parties are encouraged to register as a Plan Holder to receive notifications of any Addendums. **Bidders are required to register as a Plan Holder.**

To register,
Email the following information to **Robin.Krumm@URS.com**

SWAN LAKE HARBOR FACILITY IMPROVEMENTS, PLAN HOLDER REGISTRATION:

COMPANY NAME:
CONTACT PERSON:
ADDRESS:
CITY, STATE, ZIP:
PHONE:
FAX:
EMAIL:

SECTION 265600
EXTERIOR LIGHTING

PART 1 GENERAL

1.1 WORK INCLUDED

- A. Exterior luminaires and accessories.
- B. Lamps.
- C. Ballasts.
- D. Poles.

1.2 RELATED WORK

- A. The Work under this section is subject to requirements of the Contract Documents including the General Conditions, Supplementary Conditions, and sections under Division 01 General Requirements, and Section 260500 – Basic Electrical Requirements.
- B. Division 09 – Finishes: Painting.
- C. Division 31 - Earthwork: Excavation and backfill for utilities on site.

1.3 REFERENCES

- A. ASTM D635 - Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position.

1.4 SUBMITTALS

- A. Product Data: Submit the following:
 - 1. Luminaires: Include manufacturer's product data sheets and/or shop drawings including outline drawings showing support points, weights, and accessory information for each luminaire type.
 - 2. Lamps: Submit manufacturer's product data sheets for each lamp used on the project. Indicate which luminaires each lamps is used in.
 - 3. Ballasts: Submit manufacturer's product data sheets for each different type of ballasts used on the project. Indicate which luminaires each ballast is used in.
- B. **Exterior Fixture Substitutions:** Submit calculations to show that substitute parking lot lighting fixtures meet or exceed the lighting levels, uniformity ratios, fixture electrical load (less than or equal) and LEED SS8 compliance, as shown on the drawings.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Manuals:
 - 1. Provide recommended luminaire cleaning and re-lamping schedule. If any luminaire lenses require special lubricants for cleaning, include this in the schedule.
 - 2. Provide detailed bill of materials for all items purchased in this section including distributor's contact name, phone number and pertinent information.
 - 3. Provide luminaire manufacturer's installation instructions.
 - 4. Include any specific warranty information provided by the manufacturer for luminaires, lamps and ballasts.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site, store and protect under provisions of Division 01.

1.7 EXTRA STOCK

- A. Provide spare parts under provisions of Division 01.
- B. Lenses: Three percent of quantity furnished, minimum of one of each size and type.
- C. Ballasts: One of each size and type installed.

PART 2 PRODUCTS

2.1 EXTERIOR LUMINAIRES AND ACCESSORIES

- A. Luminaires: Provide UL listed luminaires as scheduled on the drawings or as approved equal.
- B. Listing: Luminaires shall be listed for use in the environment in which they are installed. For example, luminaires installed in return air plenums, direct contact with insulation, or in hazardous, wet, damp, or corrosive locations shall be UL listed for such application.
- C. Accessories: Provide all mounting kits, supports, interconnecting wiring, power supplies, trim kits, gaskets, etc. for a complete installation.

2.2 ACCEPTABLE MANUFACTURERS - POLES

- A. PLP
- B. Shakespeare Whatley Substitutions: Under provisions of Division 01.

2.3 LIGHTING POLES

- A. Fiberglass Poles: Round tapered fiberglass reinforced composite lighting pole with anchor base. The pole shall be constructed by the filament winding process from thermosetting polyester resin and contain a minimum of 65% fiberglass by weight. The fiberglass filament shall be helically-wound under uniform tension. The resin shall be ultraviolet (UV) resistant and pigmented the same color as the final coating. The color shall be uniform throughout the entire wall thickness. A highly weather resistant, pigmented polyurethane coating with a minimum dry film thickness of 1.5 mils shall be applied to the pole. The surface of the pole shall have a smooth finish that is uniform along the entire length on the pole. The pole shall be flame resistant in accordance with ASTM D635. The pole top shall be reinforced and drilled to accommodate the number and type of fixtures provided. The pole shall be provided with a 4" x 6" oval handhold with a non-metallic cover secured with a vandal-resistant stainless steel socket head screw. Pole tops shall be capped. Caps shall match the finish of the pole.
- B. Wind Load: 120 mph velocity with a gust factor of 1.3 per AASHTO 6th. Edition, 2013 standard specifications for structural supports for highway signs, luminaries and traffic signals with luminaries and brackets mounted.
- C. Hand Hole: Drilled hand access hole at manufacturer's standard location. Provide matching gasketed cover plate.
- D. Pole Top: Side mount luminaire to pole top and provide pole cap. Anchor Bolts: As recommended by pole manufacturer. Provide template, flat washers, lock washers, and hex nuts for each pole.
- E. Pole Base Cover: Shall match pole finish and shall extend down to concrete cap over pole base to completely cover anchor bolts and flange between pole and driven pile.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Luminaire Pole Bases: Size and constructed as indicated on Drawings. Project anchor bolts 2 inches minimum above base. Install poles on bases plumb; provide double nuts for adjustment and pole base covers. After adjusting of pole to be vertical, pack grout under pole base to provide full contact with the foundation.
- B. Use belt slings or non-chafing ropes to raise and set pre-finished luminaire poles.
- C. LED Power Supplies: Install power supplies to be readily accessible. Where power supplies are installed outdoors, provide UL listed enclosures rated to -40F.

3.2 ADJUSTING AND CLEANING

- A. Align luminaires and clean lenses and diffusers at completion of Work. Clean paint splatters, dirt, and debris from installed luminaires.
- B. Touch up luminaire and pole finish at completion of work.

END OF SECTION 265600



URS
 700 G STREET, SUITE 600
 ANCHORAGE, ALASKA 99501
 TEL: (907) 276-0654
 FAX: (907) 276-7679

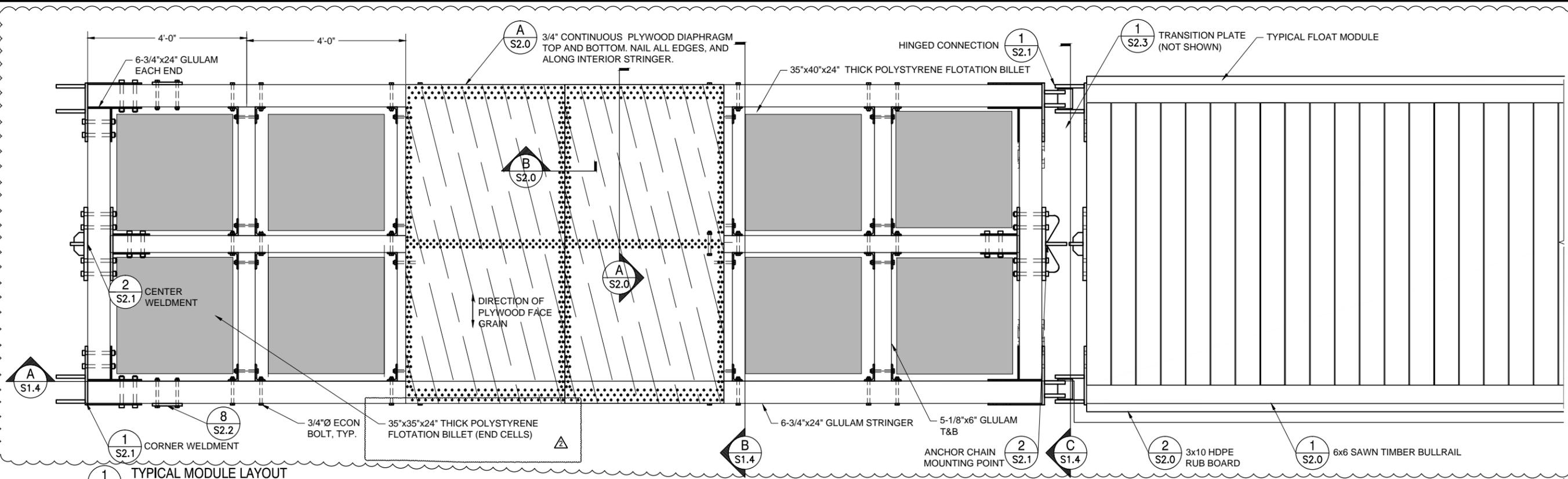


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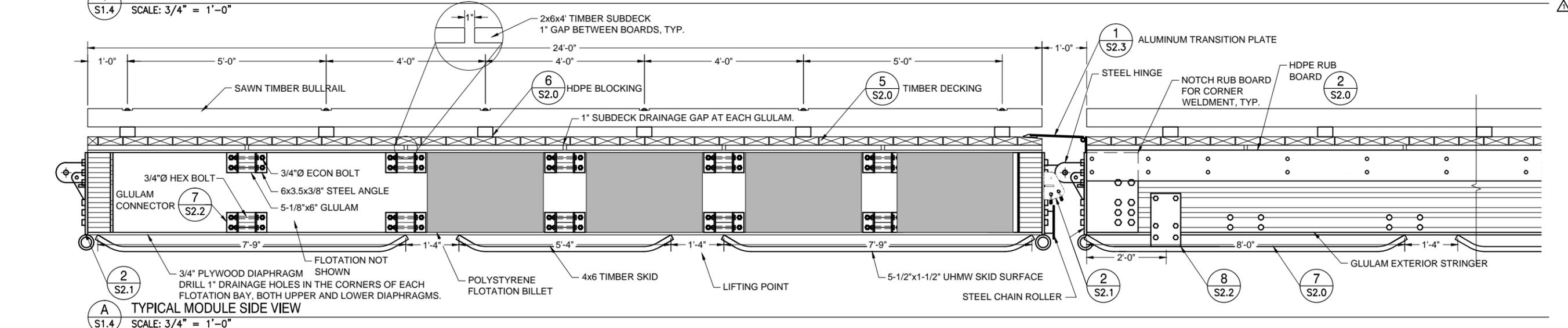
CITY OF KOTZEBUE
SWAN LAKE HARBOR FACILITY IMPROVEMENTS
 KOTZEBUE, AK

TYPICAL FLOAT LAYOUT

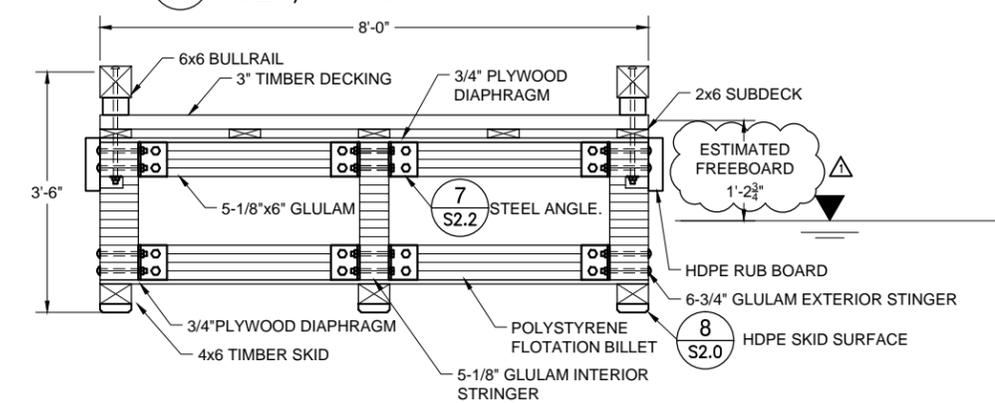
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DRAWN BY:	CB/BG
CHECKED BY:	EG
SHEET:	S1.4
PAGE:	13 OF 31



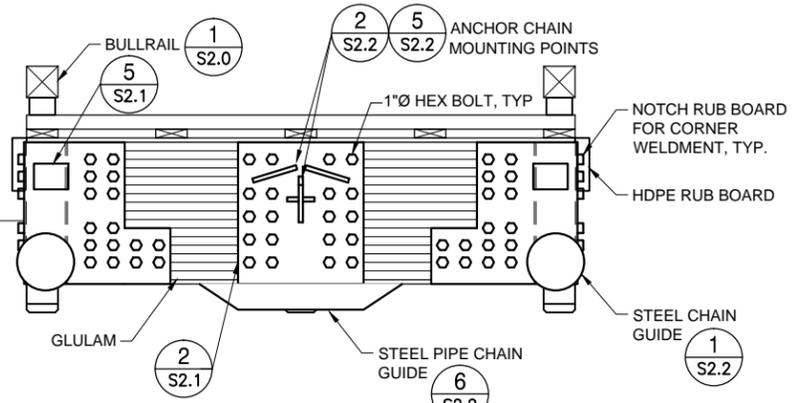
1 TYPICAL MODULE LAYOUT
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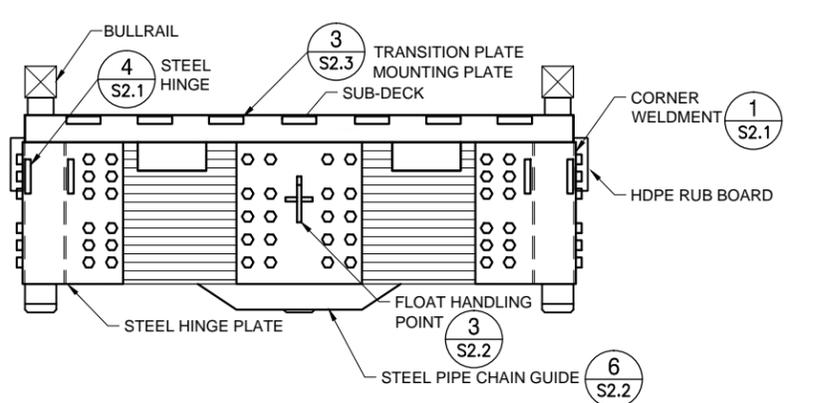
A TYPICAL MODULE SIDE VIEW
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B TYPICAL MODULE CROSS SECTION
 SCALE: 3/4" = 1'-0"



C ANCHOR MODULE END VIEW
 SCALE: 3/4" = 1'-0"



D TYPICAL MODULE END VIEW
 SCALE: 3/4" = 1'-0"

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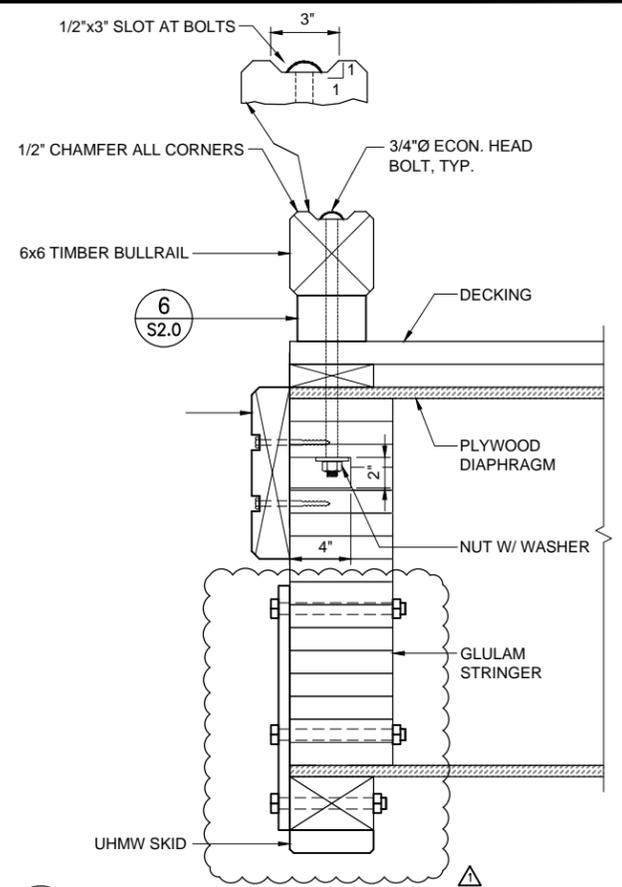
URS
 700 G STREET, SUITE 600
 ANCHORAGE, ALASKA 99501
 TEL: (907) 276-0650
 FAX: (907) 276-6779



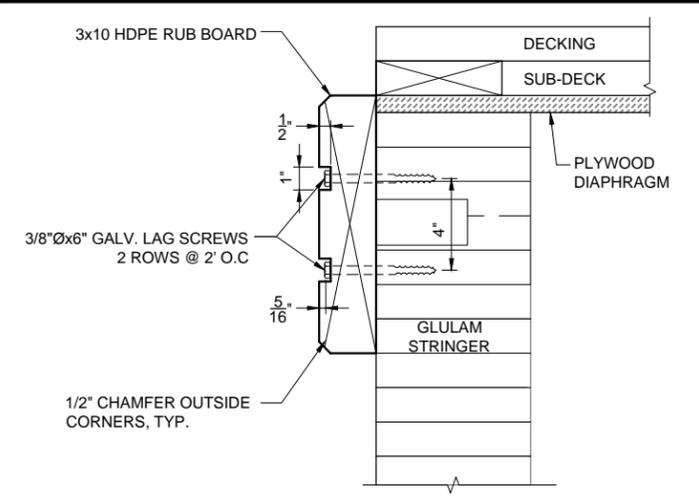
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3	EAG	02/06/2015	DETAIL 3 - NOT USED

SWAN LAKE HARBOR FACILITY IMPROVEMENTS
 KOTZEBUE, AK
FLOAT DETAILS

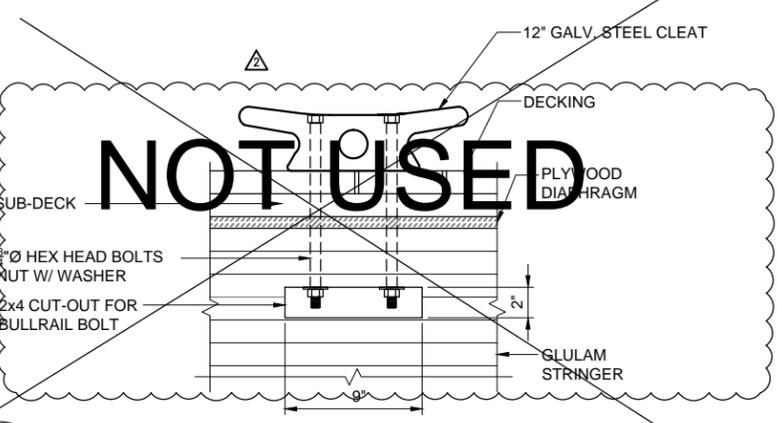
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SHEET:	S2.0
PAGE:	15 OF 31



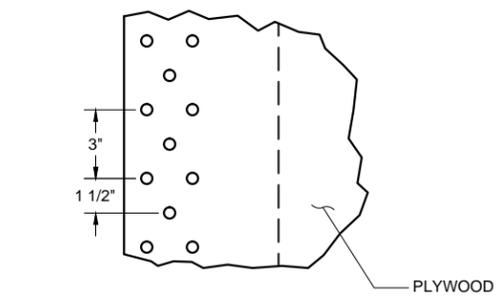
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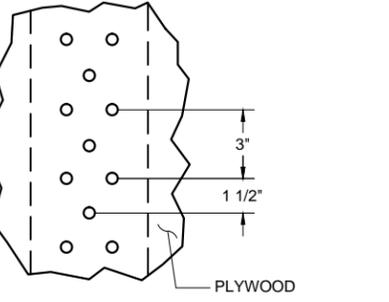
2 **HDPE BUMPER BOARD**
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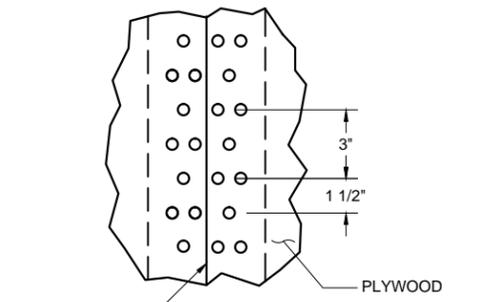
3 **BOARDING FLOAT CLEAT**
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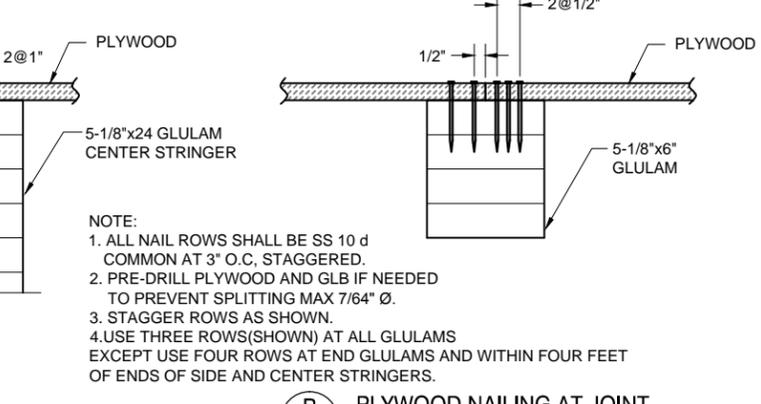
A **PLYWOOD NAILING**
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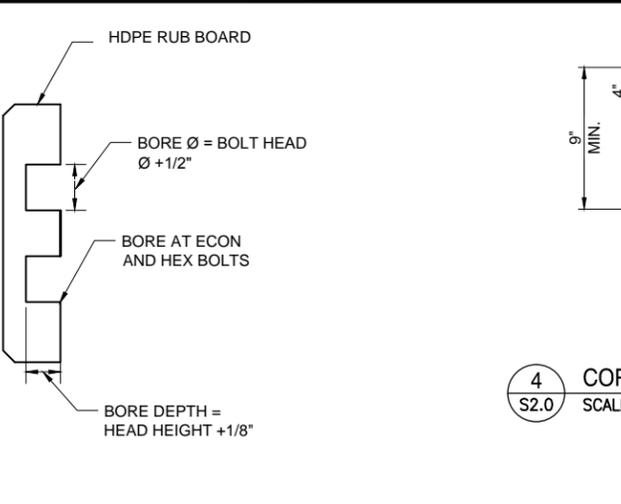
B **PLYWOOD NAILING AT JOINT**
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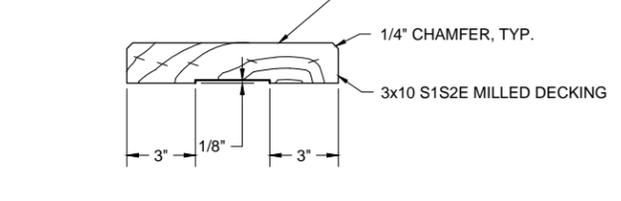
C **PLYWOOD NAILING AT JOINT**
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4 **CORNER BUMPER BOARD**
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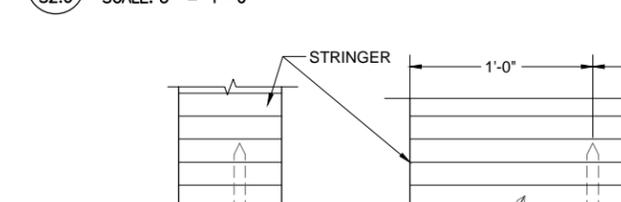
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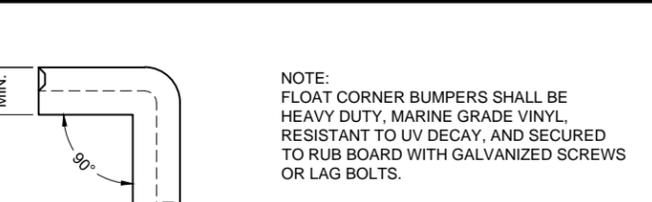
6 **BULLRAIL BLOCKING**
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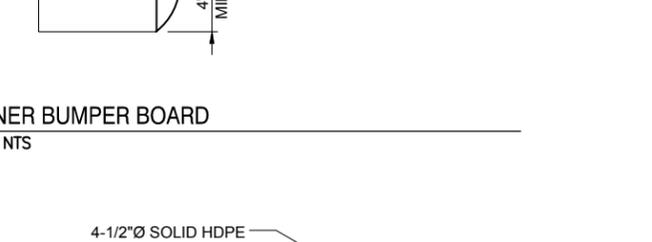
7 **TIMBER SKID DETAIL**
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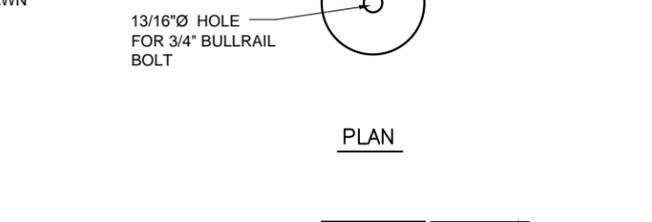
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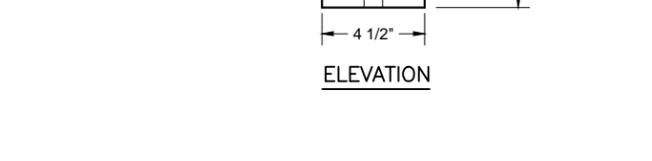
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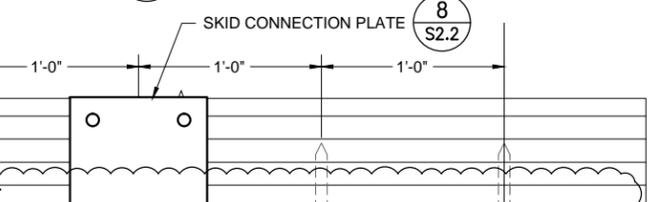
10 **UHMW SKID DETAIL**
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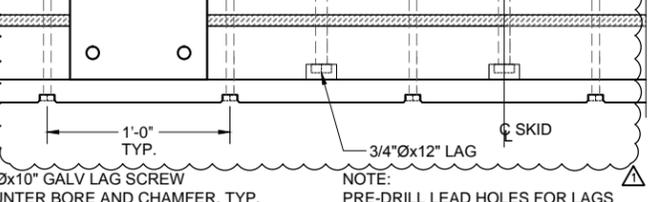
11 **UHMW SKID DETAIL**
 SCALE: 2" = 1'-0"



12 **UHMW SKID DETAIL**
 SCALE: 2" = 1'-0"



13 **UHMW SKID DETAIL**
 SCALE: 2" = 1'-0"



14 **UHMW SKID DETAIL**
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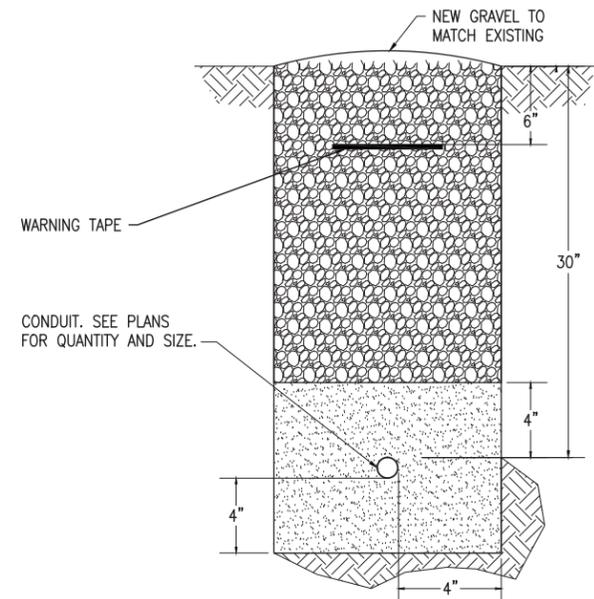


15 **UHMW SKID DETAIL**
 SCALE: 2" = 1'-0"



16 **UHMW SKID DETAIL**
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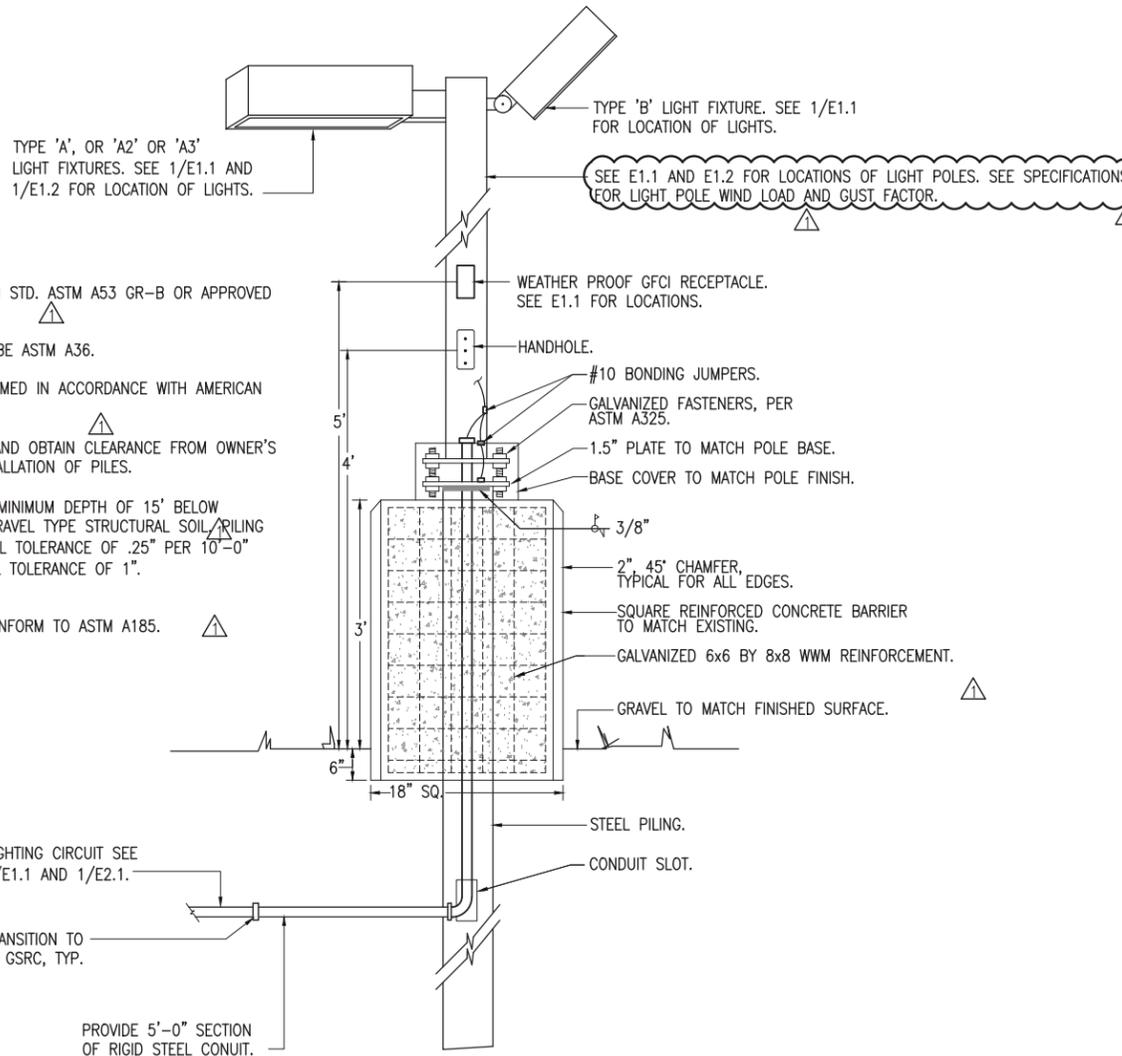
TRENCH DETAIL LEGEND

- SAND OR CLEAN FILL
- COMPACTED BACKFILL
- UNDISTURBED EARTH

TRENCH DETAIL NOTES:

- A. PROVIDE 4 MIL, 6 INCH WIDE DETECTABLE WARNING TAPE.
- B. DEPTHS SPECIFIED ARE TO FINISHED GRADE.
- C. OVER-EXCAVATE TRENCHES AS NECESSARY TO ALLOW FOR (a) SAND BEDDING OR (b) LOOSE SANDY SOILS OR (c) WHERE MORE THAN ONE CONDUIT WILL BE INSTALLED IN TRENCH AND LAYING FIRST CONDUIT MAY CAUSE TRENCH DAMAGE AND REDUCTION IN DEPTH.

1 TRENCH DETAIL
NOT TO SCALE



DETAIL NOTES:

1. PILING SHALL BE STEEL, 8 INCH STD. ASTM A53 GR-B OR APPROVED EQUAL.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A36.
3. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY D1.1.
4. VERIFY ALL UTILITY LOCATIONS AND OBTAIN CLEARANCE FROM OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF PILES.
5. PILING SHALL BE DRIVEN TO A MINIMUM DEPTH OF 15' BELOW FINISHED GRADE INTO SANDY-GRAVEL TYPE STRUCTURAL SOIL. PILING SHALL BE DRIVEN TO A VERTICAL TOLERANCE OF .25" PER 10'-0" VERTICAL AND TO A HORIZONTAL TOLERANCE OF 1".
- 6.
7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

2 LIGHT POLE BASE MOUNTING DETAIL
NOT TO SCALE

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REVISIONS		DESCRIPTION
NO.	DATE	REVISIONS
1	1/27/2015	REVISE NOTES & REMOVE DETAIL 3
2	2/06/2015	REVISE DETAIL 2 NOTE

SWAN LAKE HARBOR FACILITY IMPROVEMENTS
KOTZEBUE, AK
ELECTRICAL DETAILS

PROJECT NO.	L1016
DATE	12/29/2014
DESIGNED BY	MJC
DRAWN BY	MJC
CHECKED BY	TEH, SC

PAGE: **E2.1**
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ISSUED FOR BID