

PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR
PLANS

Volume 2 of 2



Prepared By:



ENGINEERS, INC.

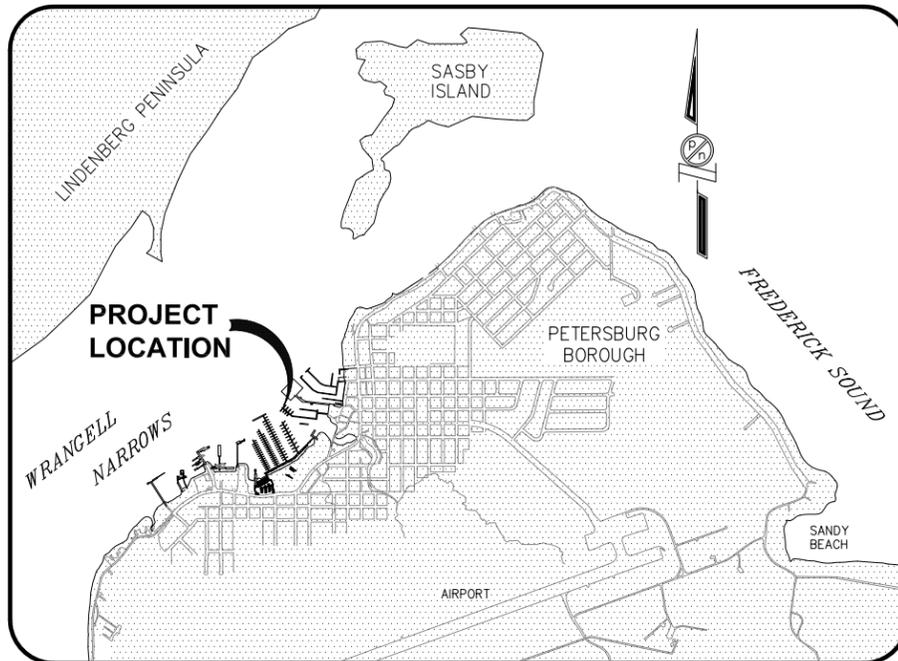
9360 Glacier Highway, Suite 100
Juneau, Alaska 99801
(907) 586-2093

APRIL 2015

PETERSBURG BOROUGH MIDDLE HARBOR FLOAT REPAIR APRIL 2015



SOUTHEAST ALASKA



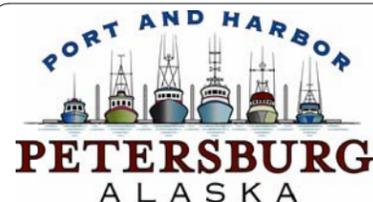
SITE PLAN

PROJECT SCHEDULE	
DESCRIPTION	SCHEDULE
EARLIEST FIELD START	*AUGUST 1, 2015
FINAL COMPLETION	OCTOBER 31, 2015

***NOTE:**
CONTRACTOR SHALL COORDINATE WITH THE OWNER, AND MAKE EVER EFFORT POSSIBLE TO LIMIT THE WATER AND ELECTRICAL UTILITY "SHUT-DOWN" TIME THAT WILL OCCUR BETWEEN DEMOLITION OF THE EXISTING FLOAT MODULE AND INSTALLATION OF THE NEW REPLACEMENT FLOAT MODULE.

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SHEET NO.	DWG. NO.	TITLE
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2 OF 3	1.02	GENERAL SITE PLAN
3 OF 3	2.01	EXISTING CONDITIONS AND DEMOLITION PLAN
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	3.13	MAINWALK END BALLAST FLOAT
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	3.15	HEADWALK AND MAINWALK FLOAT UNIT DETAILS
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	6.05	POWER PLAN MAINWALK 1
	6.06	LIGHTING PLAN HEADWALK/MAINWALK 1 & 2
	6.07	CABLING PLAN HEADWALK
	6.08	CABLING PLAN MAINWALK 1
	6.09	CABLING PLAN MAINWALK 2
	6.10	ELECTRICAL DETAILS GANGWAY
	6.11	ELECTRICAL DETAILS
	6.12	ELECTRICAL DETAILS LANDING FLOAT/UTILITY SHED
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	1.05	DOMESTIC WATER LINE DETAILS

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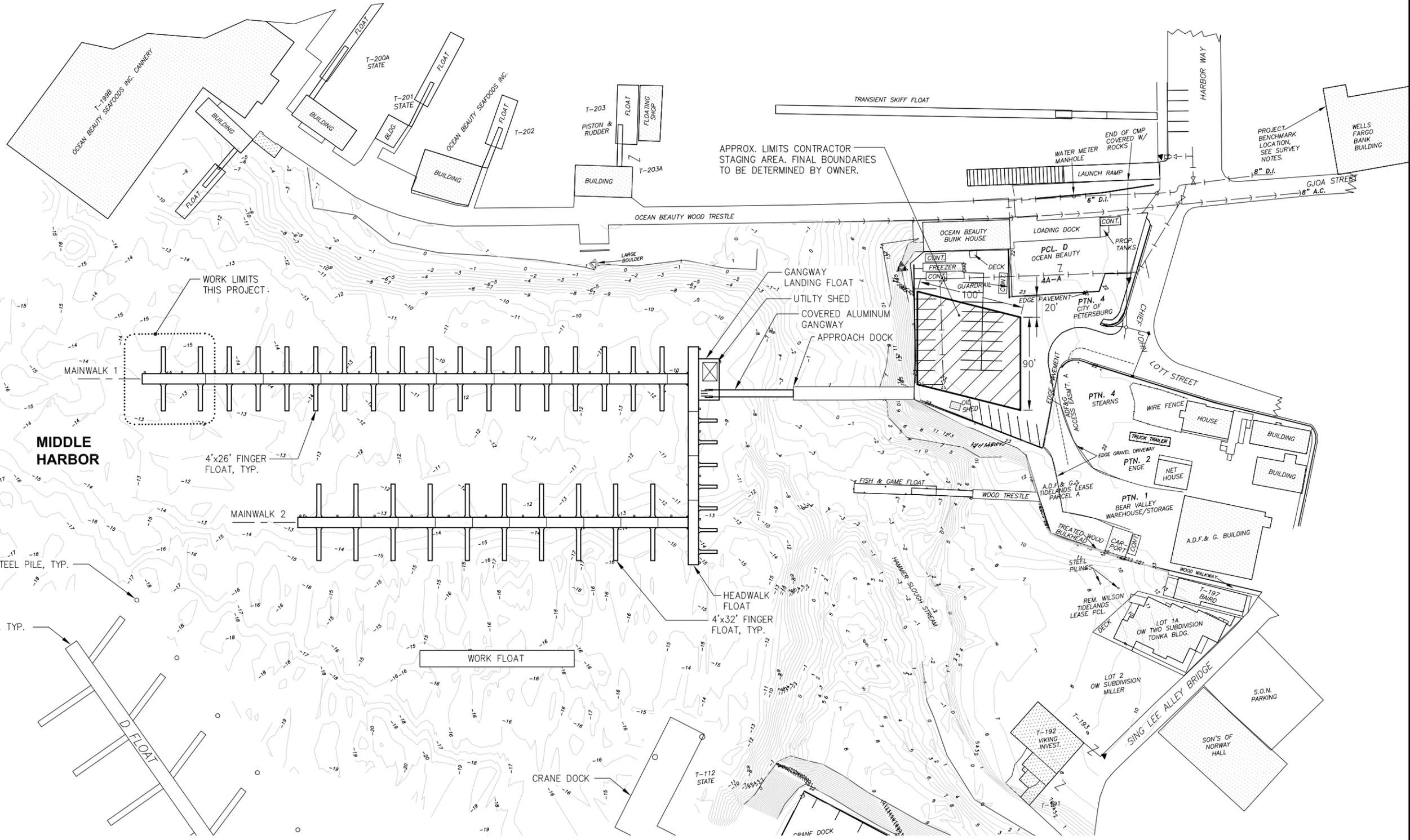
**PETERSBURG, ALASKA
MIDDLE HARBOR FLOAT REPAIR**

SHEET TITLE:
**TITLE SHEET, VICINITY MAP
AND DRAWING INDEX**

PND PROJECT NO.: 152010

1.01

SHEET
1 OF 3



GENERAL SITE PLAN



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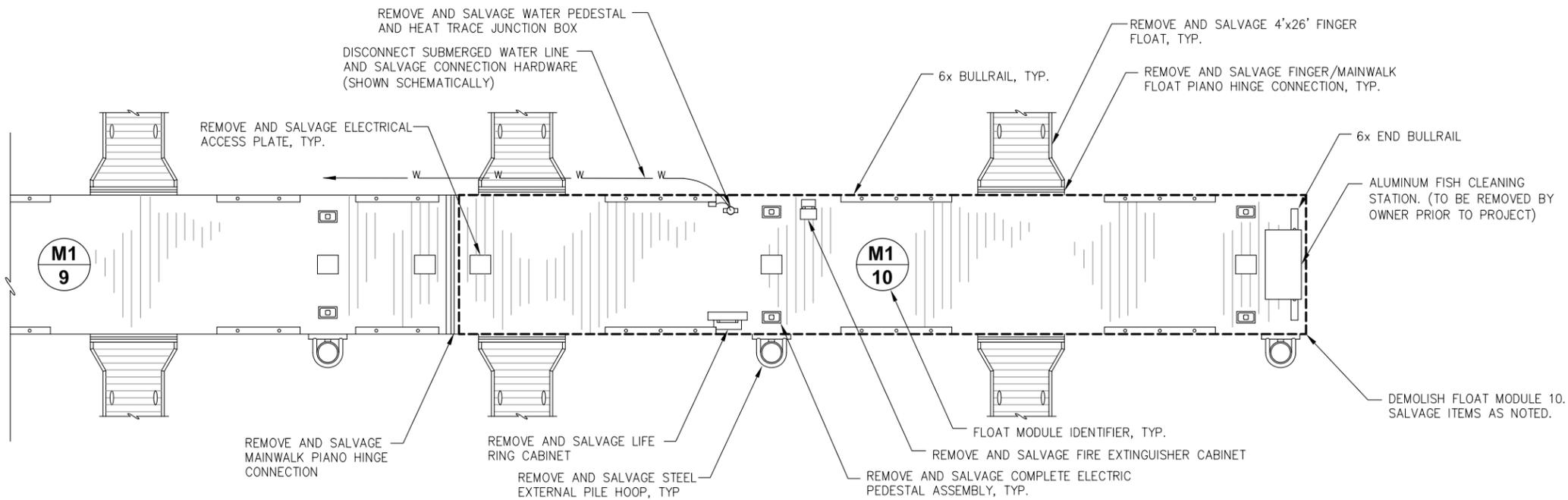


**PETERSBURG, ALASKA
MIDDLE HARBOR FLOAT REPAIR**

SHEET TITLE:
GENERAL SITE PLAN

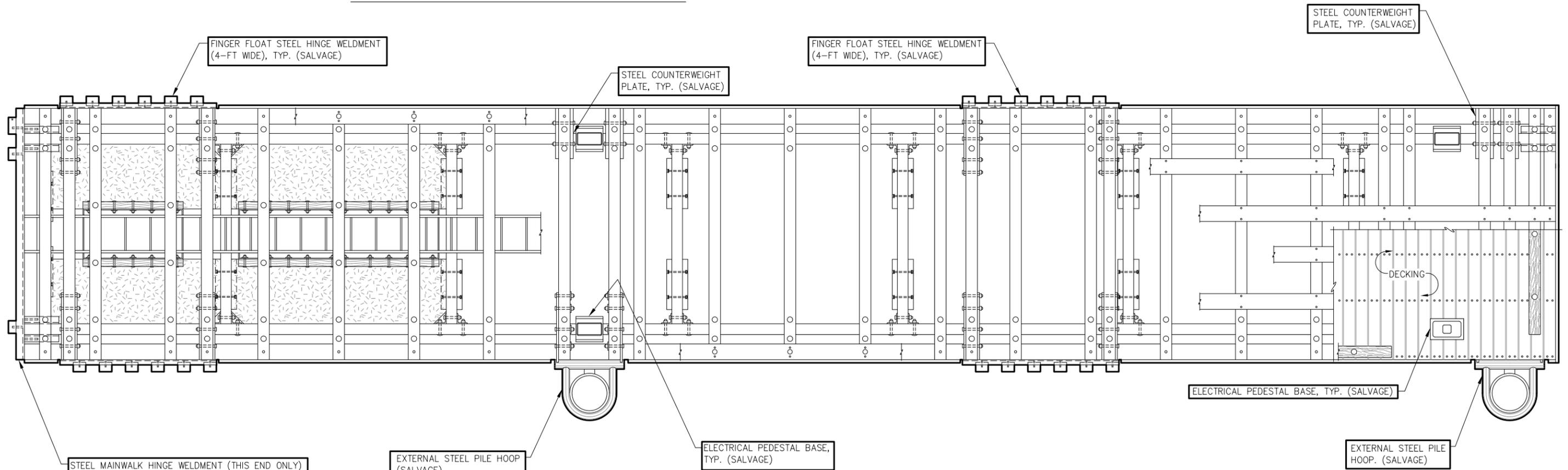
PND PROJECT NO.: 152010

1.02
SHEET
2 OF 3



EXISTING CONDITIONS AND DEMOLITION PLAN

- WORK SUMMARY/DEMOLITION NOTES:**
- THE WORK INCLUDES THE DEMOLITION OF AN EXISTING 10'x60' FLOAT, FABRICATION OF A NEW 10'x60' REPLACEMENT FLOAT, AND THE SALVAGE AND REINSTALLATION OF ITEMS FROM THE EXISTING FLOAT AS NOTED.
1. SALVAGE ALL HINGES, WELDMENTS, FINGER FLOATS, PILE HOOPS, COUNTERWEIGHTS AND ALL ASSOCIATED HARDWARE FROM THE EXISTING FLOAT AND INSTALL ON THE NEW REPLACEMENT FLOAT.
 2. SALVAGE ALL COMPLETE ELECTRICAL PEDESTALS ASSEMBLIES, LIGHTING, CABLING, HEAT TRACE, AND ASSOCIATED HARDWARE FROM THE EXISTING FLOAT AND INSTALL ON THE NEW REPLACEMENT FLOAT.
 3. SALVAGE WATERLINE, HANGERS, WATER PEDESTAL AND ALL ASSOCIATED HARDWARE FROM EXISTING FLOAT AND INSTALL ON NEW FLOAT. DISCONNECT EXISTING SUBMERGED WATER LINE FROM EXISTING FLOAT AND PROVIDE TEMPORARY SUPPORT FOR LINE UNTIL REINSTALLED ON NEW REPLACEMENT FLOAT.
 4. SALVAGE LIFE RING AND FIRE EXTINGUISHER CABINETS AND ALL ASSOCIATED HARDWARE FROM EXISTING FLOATS AND INSTALL ON NEW REPLACEMENT FLOAT.
 5. ** CONTRACTOR WILL BE REQUIRED TO HIRE A QUALIFIED, CERTIFIED ELECTRICAL SUB-CONTRACTOR TO PERFORM ALL NECESSARY ELECTRICAL DEMOLITION, SALVAGE AND INSTALLATION WORK REQUIRED FOR THIS PROJECT.



MAINWALK END BALLAST FLOAT UNIT (UNIT 10) - PLAN

(NOTES: SEE REFERENCE DRAWINGS FOR DETAILS NOT SHOWN)



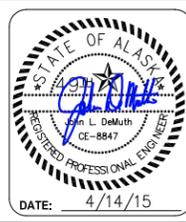
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**PETERSBURG, ALASKA
MIDDLE HARBOR FLOAT REPAIR**

SHEET TITLE:
**EXISTING CONDITIONS AND
DEMOLITION PLAN**

PND PROJECT NO.: 152010

2.01
SHEET
3 OF 3

**PETERSBURG BOROUGH
MIDDLE HARBOR FLOAT REPAIR**

REFERENCE DRAWINGS

NOTE: THE FOLLOWING DRAWINGS REPRESENT A PARTIAL SET ONLY OF SELECT DRAWINGS FROM THE ORIGINAL 2005 MIDDLE HARBOR DESIGN DOCUMENTS THAT ARE INTENDED TO PROVIDE THE INFORMATION NECESSARY TO FABRICATE THE REPLACEMENT FLOAT MODULE UNIT 10 AND TO AID IN THE REMOVAL, SALVAGE AND REPLACEMENT OF THE EXISTING WATER AND ELECTRICAL UTILITIES FOR THIS PROJECT. ADDITIONAL DRAWINGS AND/OR INFORMATION MAY BE OBTAINED FROM PND ENGINEERS, INC. UPON CONTRACTOR'S REQUEST.

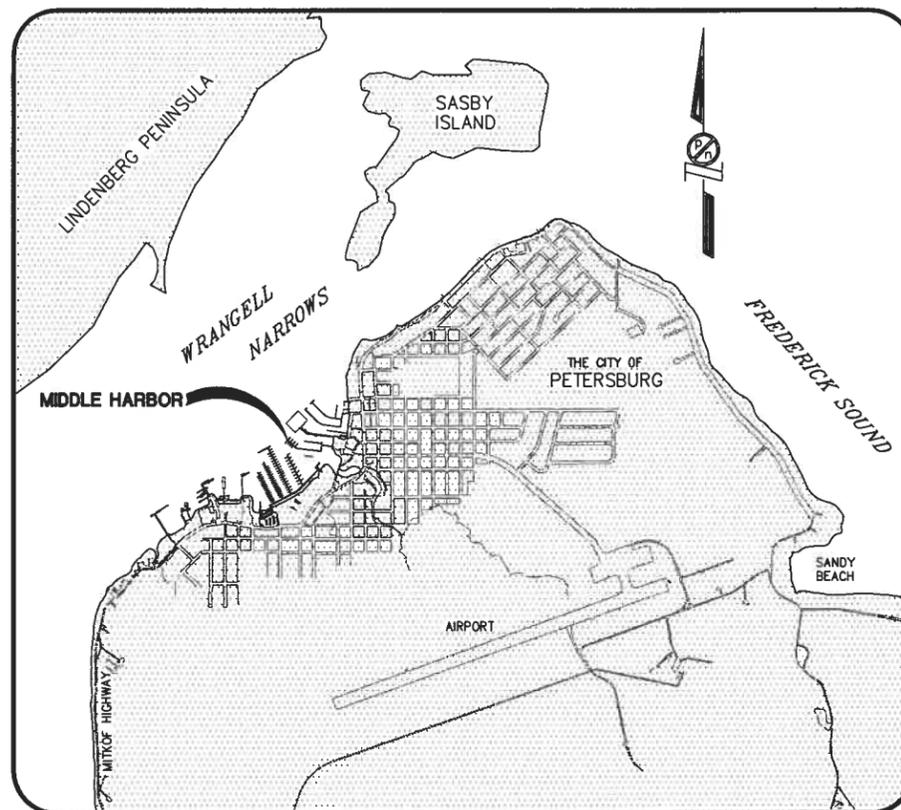
CITY OF PETERSBURG, ALASKA MIDDLE HARBOR RENOVATION 2005



LOCATION MAP



SOUTHEAST ALASKA



PROJECT SCHEDULE	
DESCRIPTION	SCHEDULE
IN-WATER WORK RESTRICTIONS: NO WORK ACTIVITY SHALL BE ALLOWED BELOW THE TIDAL ELEVATION	MARCH 15 - JUNE 15, ANY YEAR
EARLIEST FIELD START	SEPTEMBER 1, 2005
ADDITIVE ALTERNATE A PRESCRIBED WORK PERIOD	OCTOBER 1-10, 2005
SUBSTANTIAL COMPLETION ALL ITEMS	DECEMBER 31, 2005
FINAL COMPLETION OF ALL WORK UNDER THIS CONTRACT	JANUARY 15, 2006

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DRAWING INDEX

SHEET NO.	DWG. NO.	TITLE
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3 OF 45	1.03	EXISTING CONDITIONS AND DEMOLITION PLAN
4 OF 45	1.04	DEMOLITION DETAILS
5 OF 45	1.05	GENERAL SITE PLAN
GANGWAY AND APPROACH DOCK		
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8 OF 45	2.03	APPROACH DOCK MODIFICATION DETAILS
9 OF 45	2.04	GANGWAY PLAN AND ELEVATION
10 OF 45	2.05	GANGWAY TYPICAL SECTION & DETAILS
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MOORAGE FLOATS		
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30 OF 45	3.18	MAINWALK END BALLAST FLOAT DETAILS
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E5 OF 14	6.05	POWER PLAN MAINWALK 1
E6 OF 14	6.06	LIGHTING HEADWALK/MAINWALK 1 & 2
E7 OF 14	6.07	CABLING PLAN HEADWALK
E8 OF 14	6.08	CABLING PLAN MAINWALK 1
E9 OF 14	6.09	CABLING PLAN MAINWALK 2
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E12 OF 14	6.12	ELECTRICAL DETAILS LANDING FLOAT / UTILITY SHED
ELECTRICAL - SEAPLANE FLOAT		
E13 OF 14	7.01	SEAPLANE FLOAT EXISTING LIGHTING PLAN SINGLE LINE & LEGEND
E14 OF 14	7.02	SEAPLANE FLOAT NEW LIGHTING PLAN

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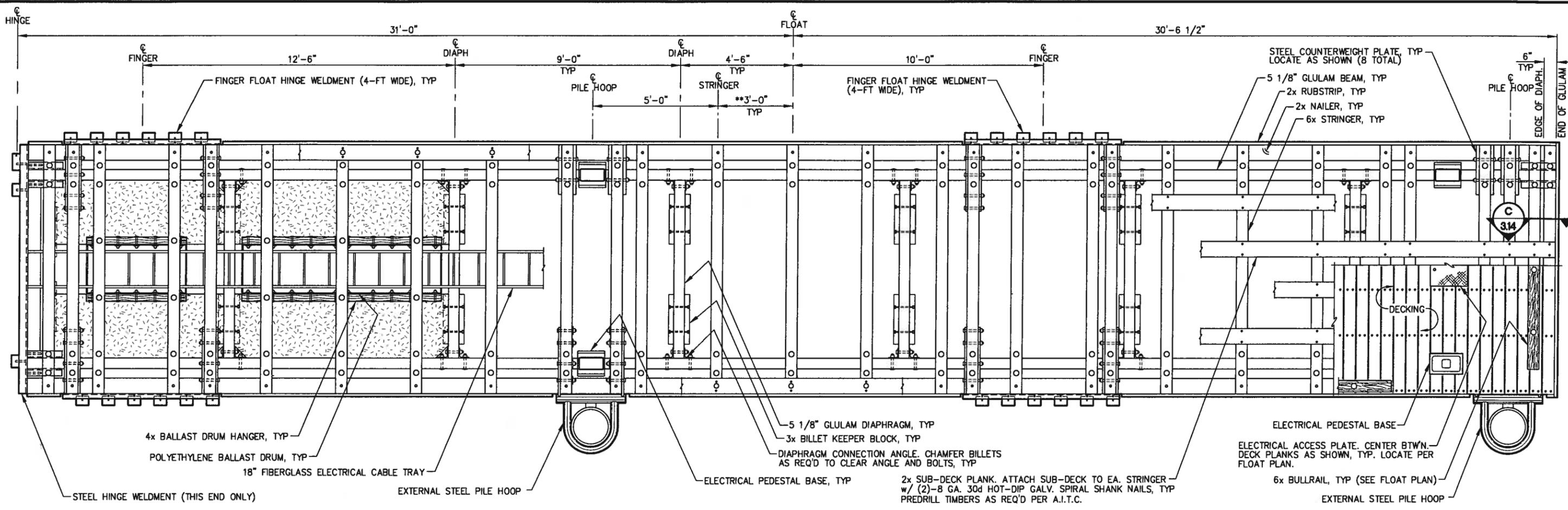


**PETERSBURG, ALASKA
MIDDLE HARBOR RENOVATION**

SHEET TITLE:
**COVER SHEET, VICINITY
MAP AND DRAWING INDEX**

PND PROJECT NO. 042011.02 DWG. FILE: 1.01.DWG

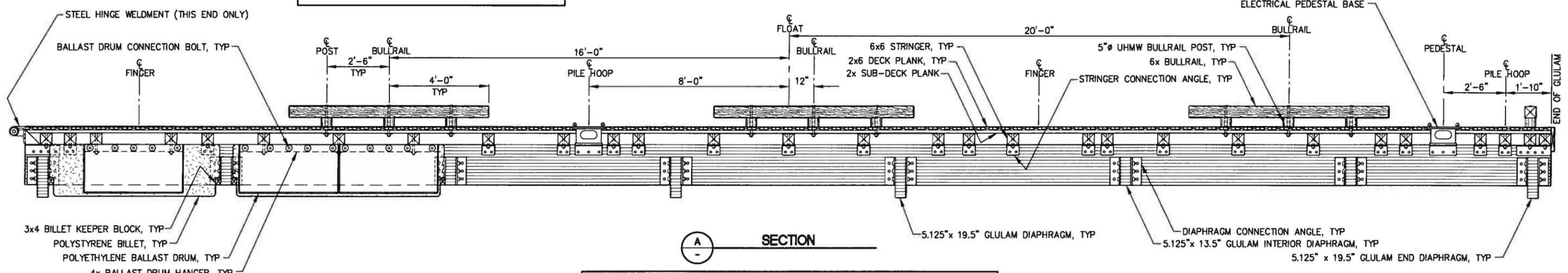
1.01
SHEET
1 OF 45



MAINWALK END BALLAST FLOAT (UNIT 10) - PLAN

NOTE: GLULAM DIAPHRAGM AND BEAM DEPTHS INDICATED ON THE DRAWINGS ARE THE MINIMUM DEPTH REQ'D. CONTRACTOR MAY CHOOSE TO EXTEND ALL GLULAM DEPTHS TO BE AT OR BELOW THE REQ'D BILLET DEPTH SHOWN TO ENSURE BILLET PROTECTION DURING HANDLING OPERATIONS.

** TYPICAL STRINGER SPACING SHALL BE 3'-0" MAXIMUM. STRINGER SPACING MAY VARY AND ADDITIONAL STRINGERS WILL BE REQ'D AT PILE HOOPS, FINGER FLOATS AND OTHER FLOAT/FLOAT CONNECTIONS. SEE INDIVIDUAL DETAILS FOR STRINGER LOCATION REQUIREMENTS.



NOTE: NOT ALL FLOTATION BILLETS AND BALLAST DRUMS SHOWN; ELECTRICAL CABLE TRAY NOT SHOWN THIS VIEW FOR CLARITY. FLOTATION BILLETS AND BALLAST DRUMS ARE SYMMETRICAL ABOUT CENTERLINE OF FLOAT. FLOAT DETAILS NOT SHOWN SIMILAR TO TYPICAL MAINWALK FLOAT UNIT.

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REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

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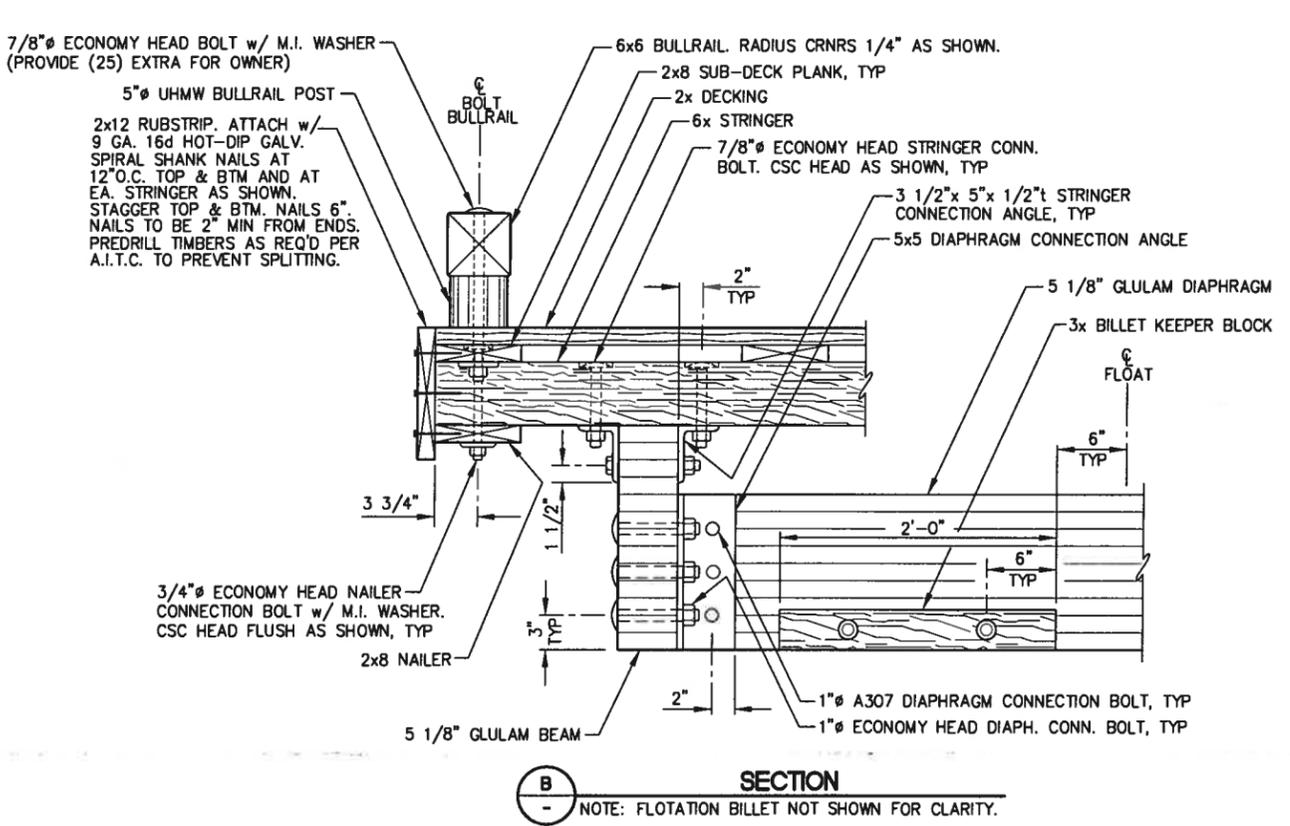
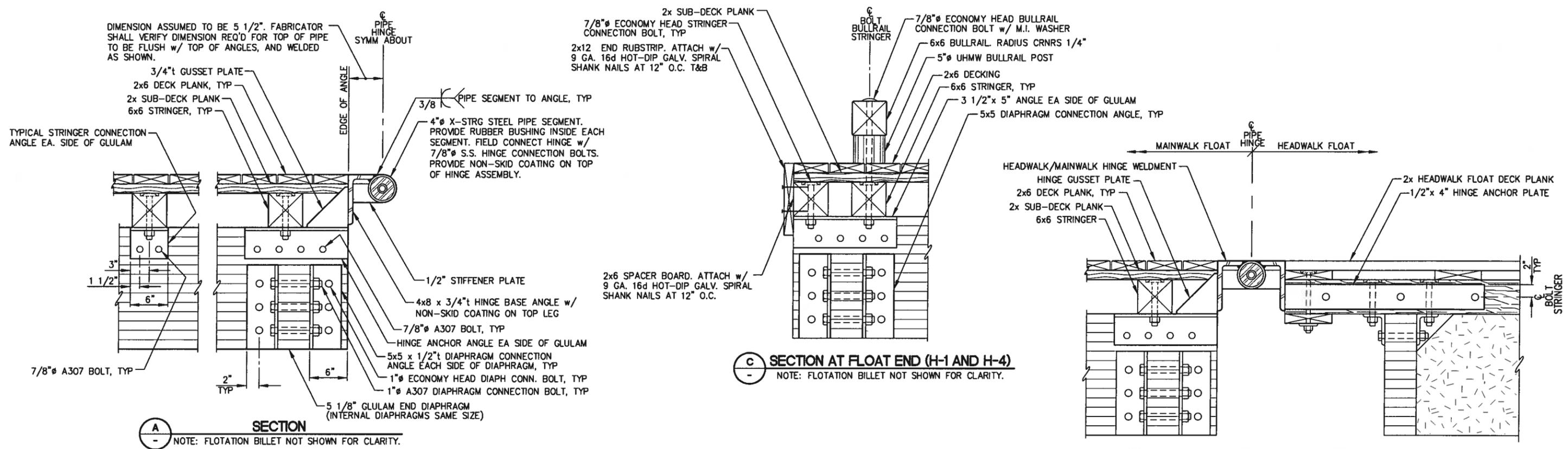


**PETERSBURG, ALASKA
 MIDDLE HARBOR RENOVATION**

SHEET TITLE:
MAINWALK END BALLAST FLOAT

3.13
 SHEET
 25 OF 45

PND PROJECT NO. 042011.02 DWG. FILE: 313.DWG



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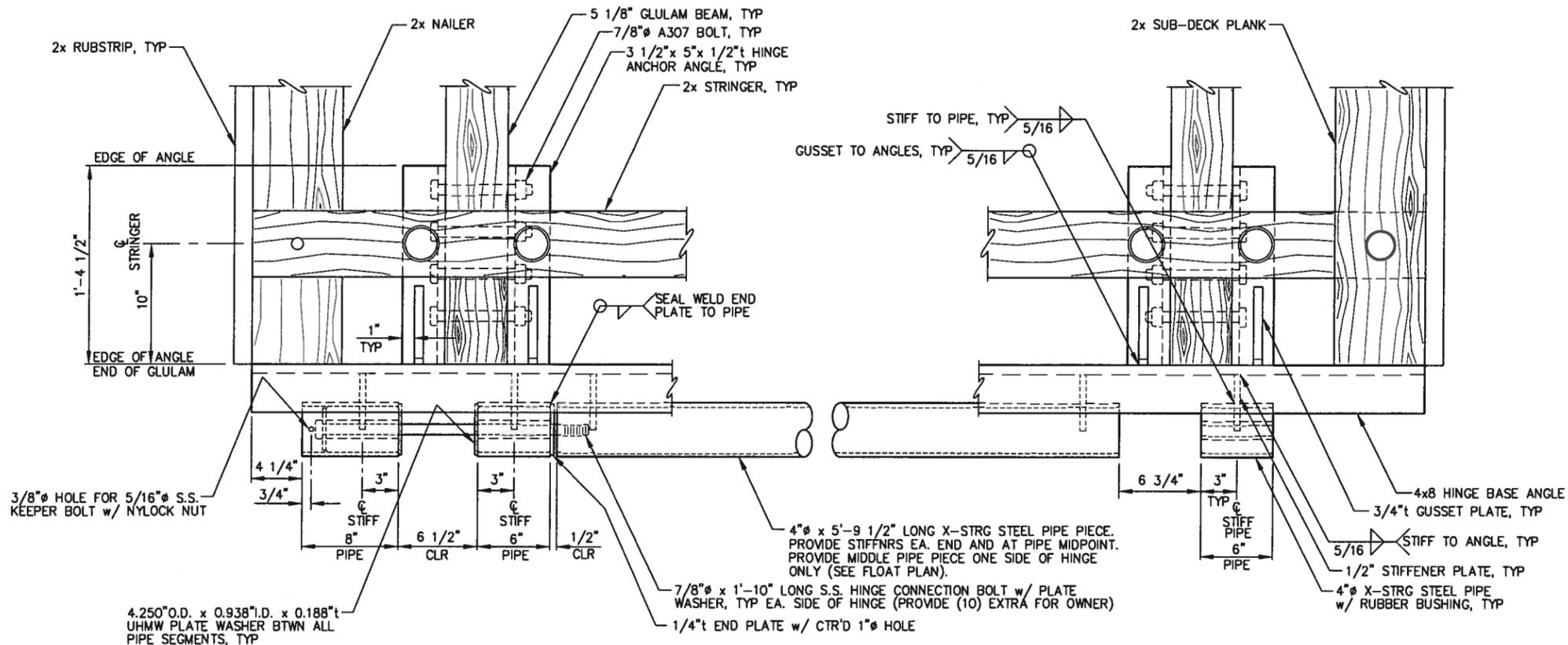


**PETERSBURG, ALASKA
MIDDLE HARBOR RENOVATION**

SHEET TITLE:
**HEADWALK AND MAINWALK
FLOAT UNIT DETAILS**

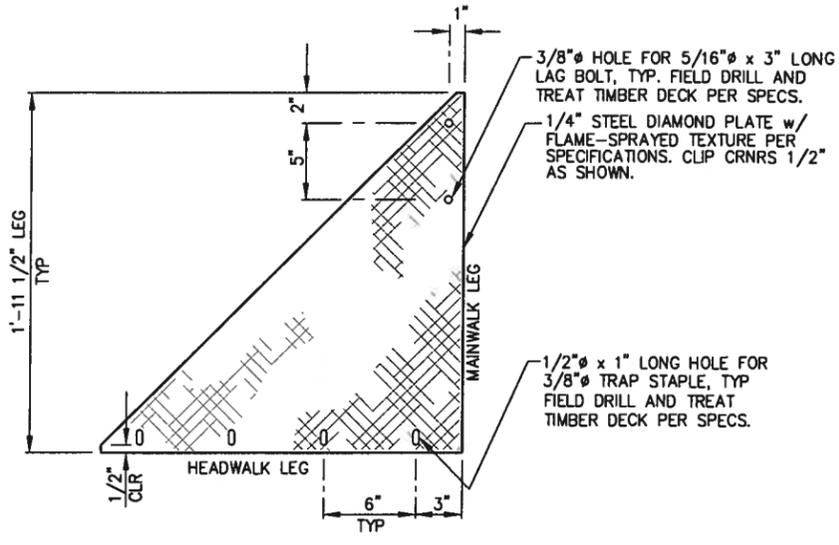
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SHEET 26 OF 45

PND PROJECT NO. 042011.02 DWG. FILE: 314.DWG



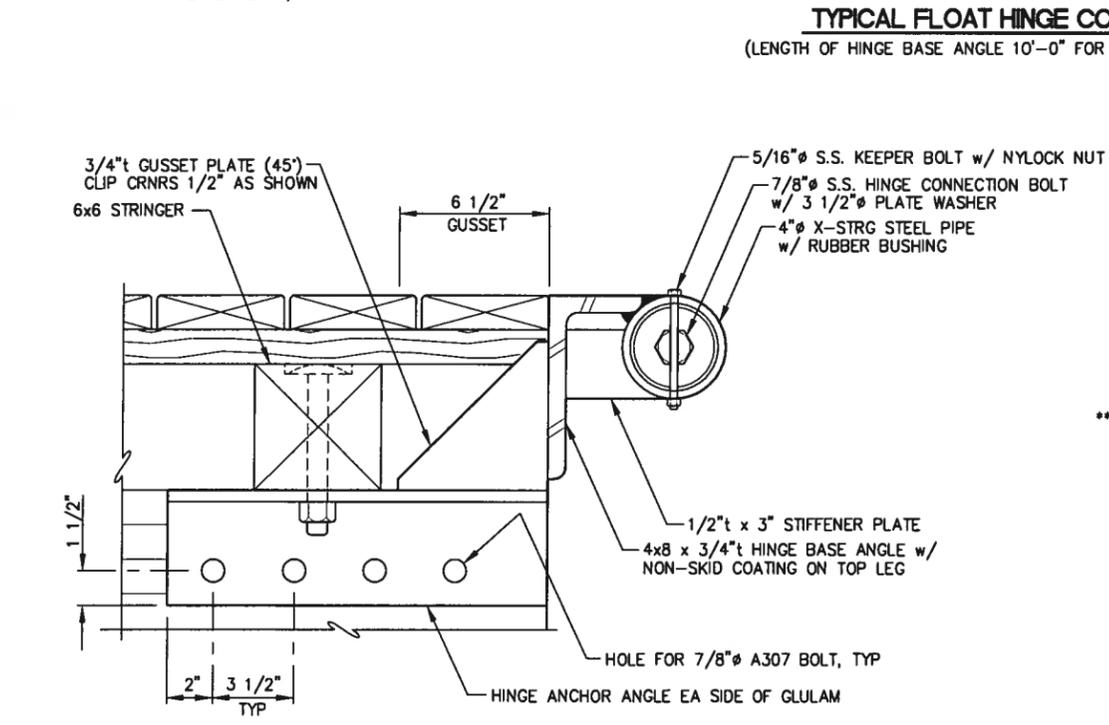
TYPICAL FLOAT HINGE CONNECTION - PLAN

(LENGTH OF HINGE BASE ANGLE 10'-0" FOR MAINWALK AND HEADWALK FLOATS)

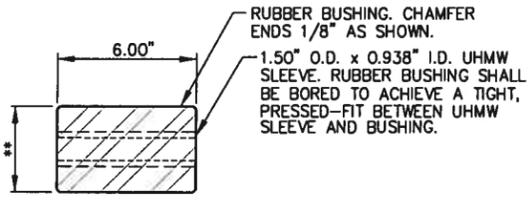


Float Corner Plate - Plan

(4 TOTAL REQ'D; LOCATE PER FLOAT PLAN)



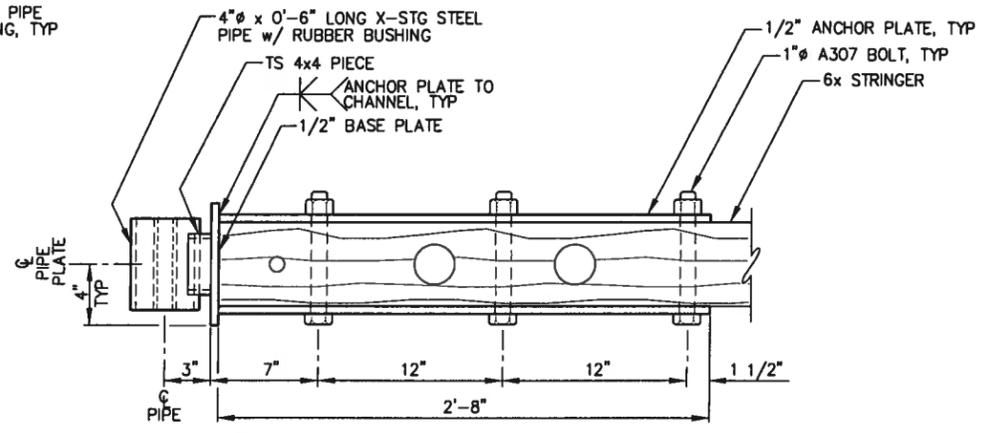
Float Hinge Connection - Elev.



TYPICAL HINGE BUSHING

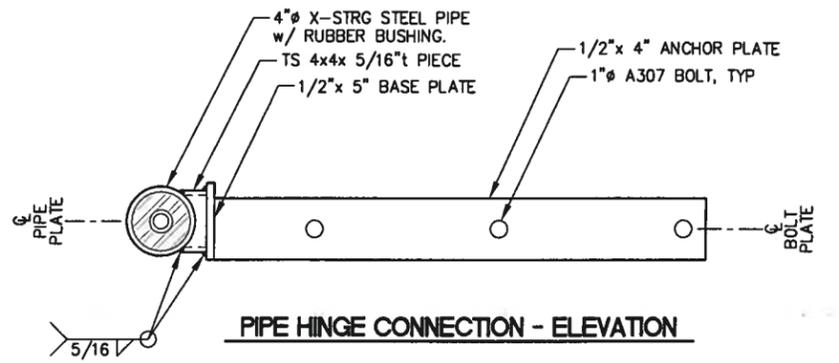
(BUSHINGS TYPICAL ALL HINGE PIPE SEGMENTS)

**NOTE: FABRICATOR SHALL PROVIDE (12) EXTRA HINGE BUSHINGS FOR OWNER.



PIPE HINGE CONNECTION - PLAN

(4 TOTAL REQ'D ON HEADWALK FLOAT H1)



PIPE HINGE CONNECTION - ELEVATION

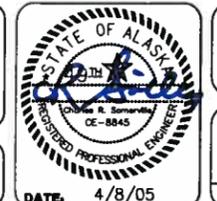
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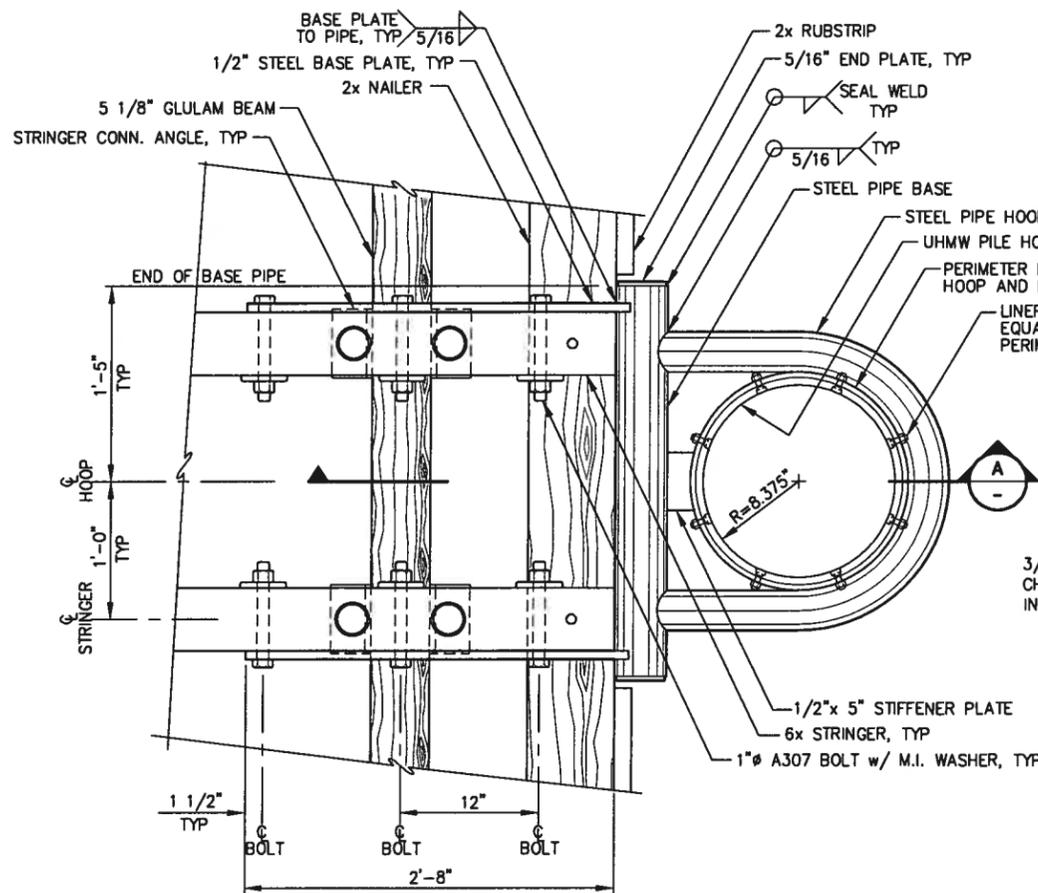
PETERSBURG, ALASKA MIDDLE HARBOR RENOVATION

SHEET TITLE: **HEADWALK AND MAINWALK FLOAT UNIT DETAILS**

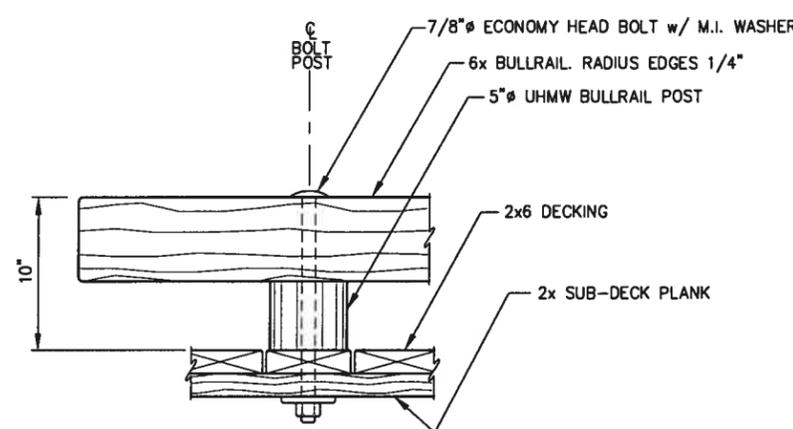
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PND PROJECT NO. 042011.02 DWG. FILE: 315.DWG

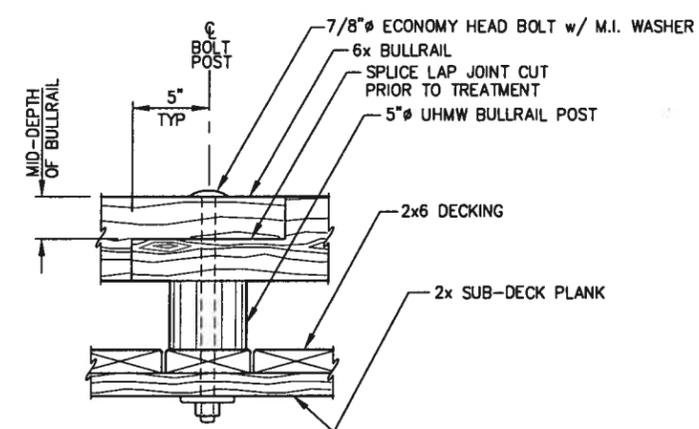
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SHEET 27 OF 45



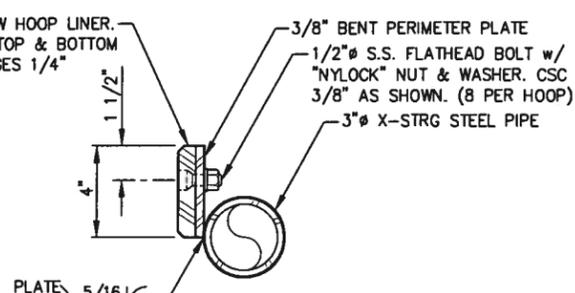
TYPICAL PILE HOOP - PLAN



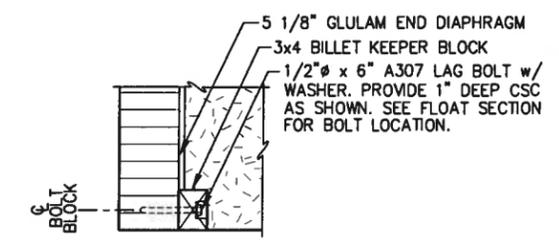
TYPICAL BULLRAIL - ELEVATION



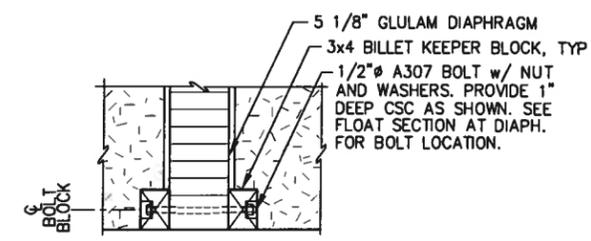
TYPICAL BULLRAIL SPLICE - ELEVATION



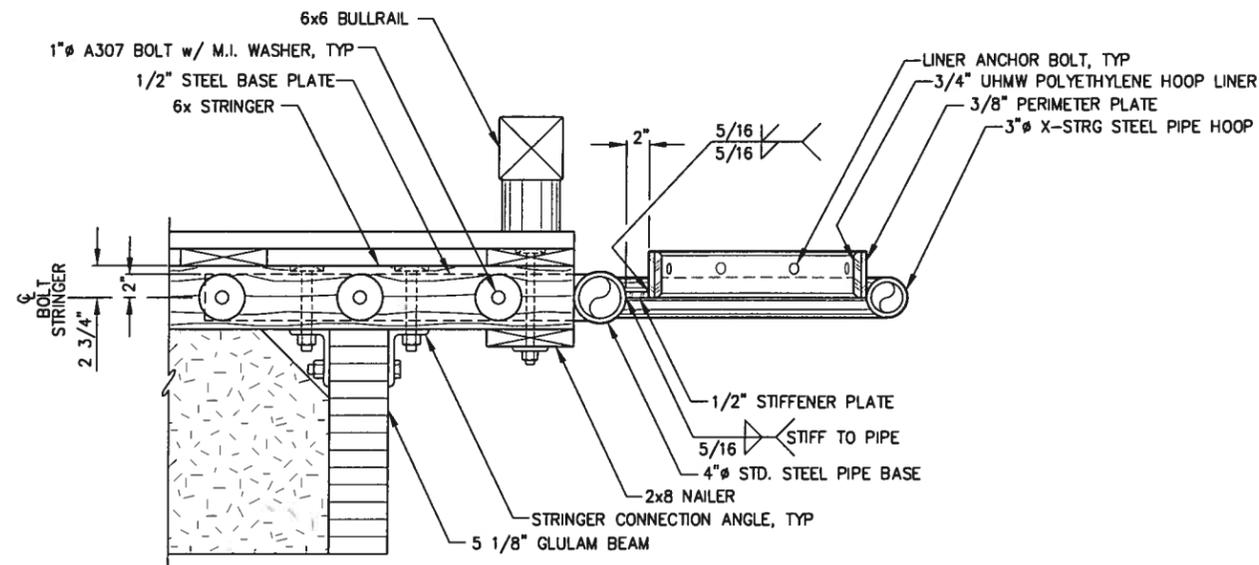
TYPICAL HOOP SECTION



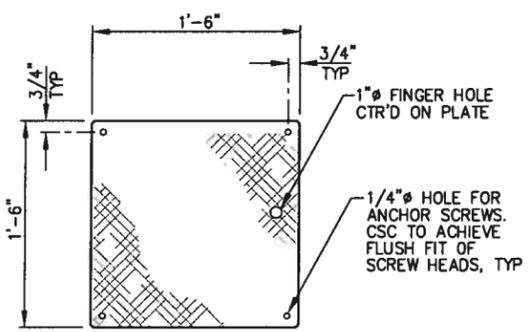
BILLET KEEPER - ELEVATION (TYPE 1)



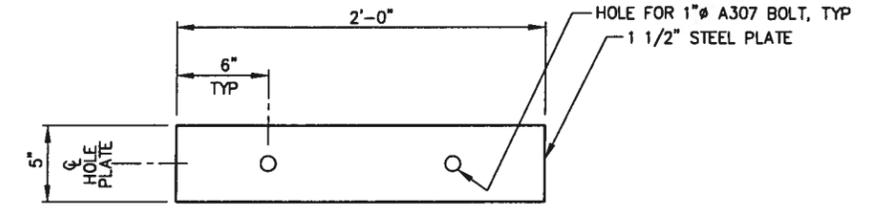
BILLET KEEPER - ELEVATION (TYPE 2)



SECTION A



ELECTRICAL ACCESS PLATE
NOTE: PLATE SHALL BE 1/4" ALUMINUM DIAMOND PLATE w/ FLAME-SPRAYED TEXTURE PER SPECIFICATIONS. CLIP CORNER 1/4" AS SHOWN. LOCATE PER FLOAT PLAN.



TYPICAL COUNTERWEIGHT PLATE
(LOCATION AND NUMBER OF PLATES PER INDIVIDUAL FLOAT UNIT PLANS)

REVISIONS

REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

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SCALE: NTS



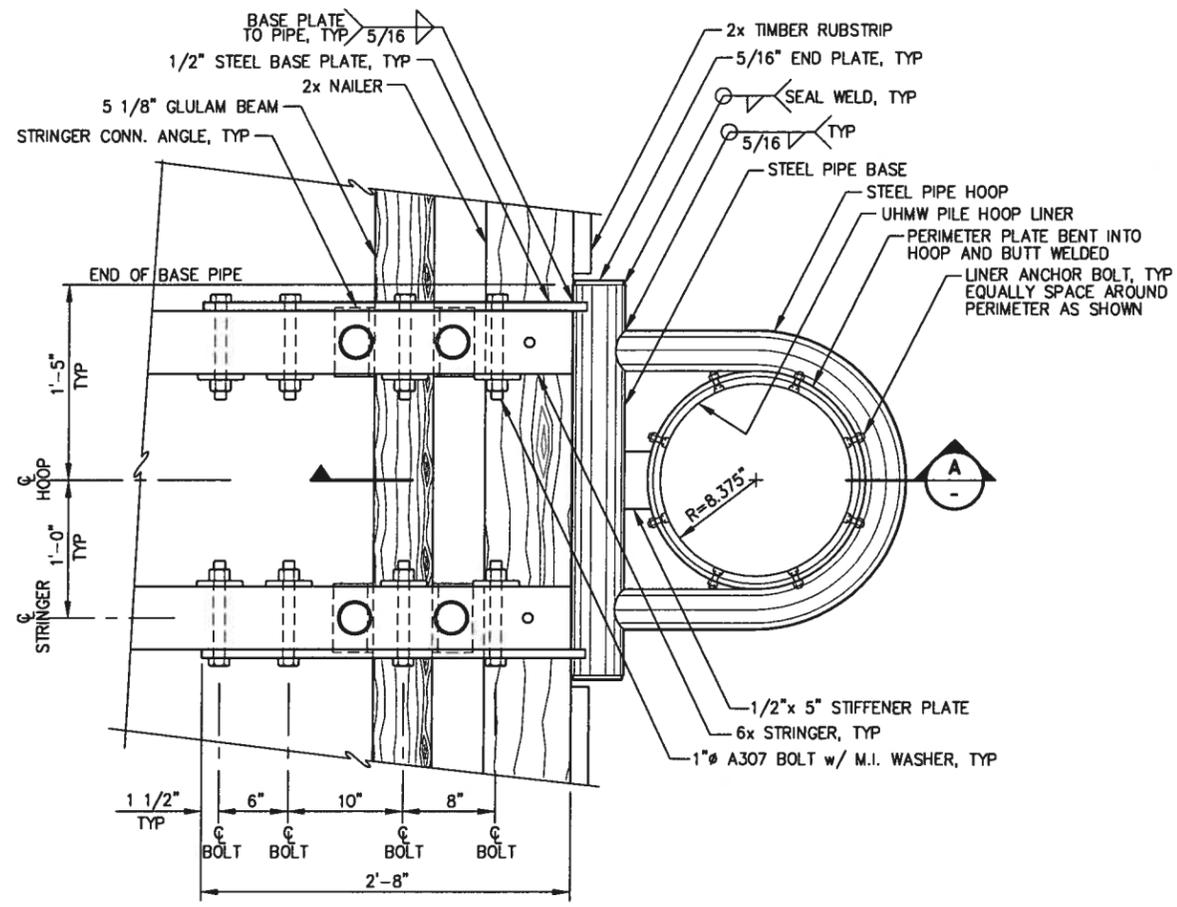
**PETERSBURG, ALASKA
MIDDLE HARBOR RENOVATION**

SHEET TITLE:
**HEADWALK AND MAINWALK
FLOAT UNIT DETAILS**

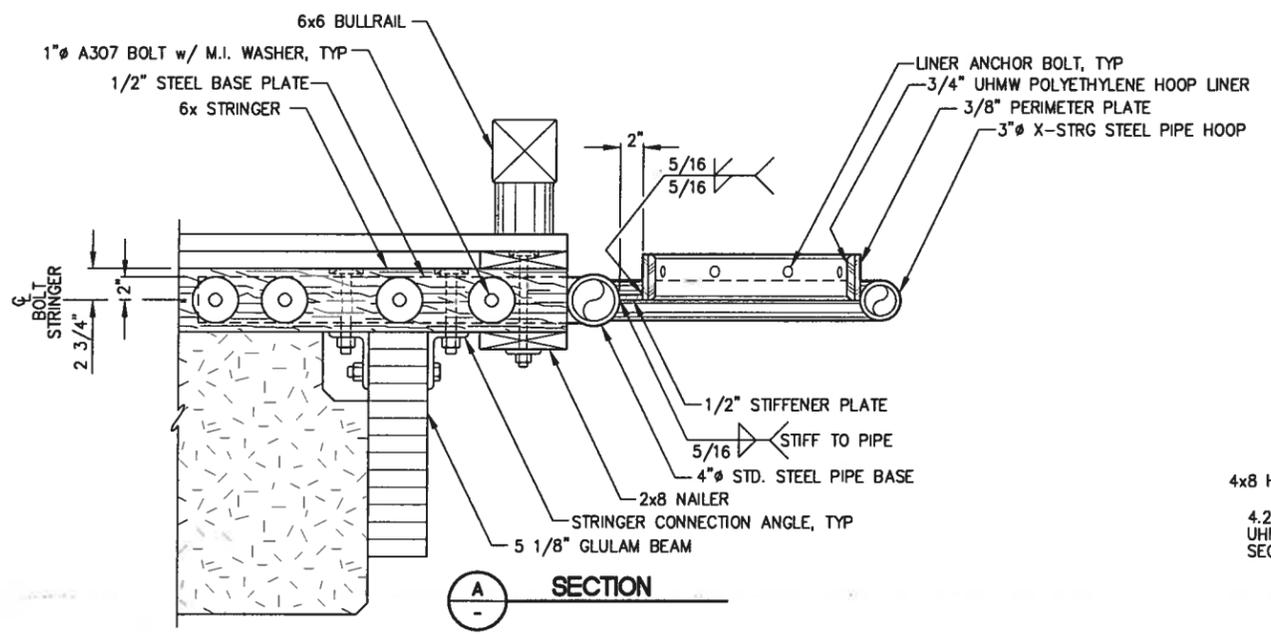
DATE: 4/8/05

PND PROJECT NO. 042011.02 DWG. FILE: 316.DWG

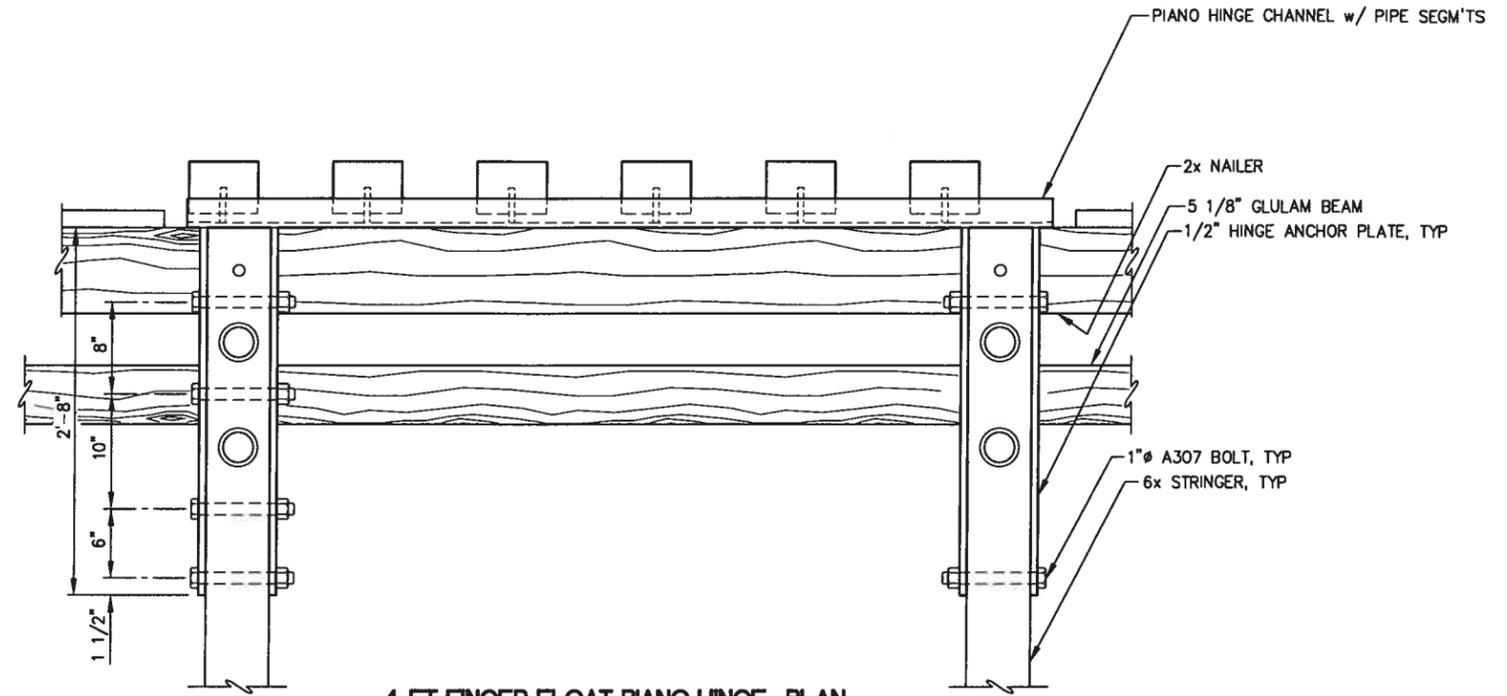
3.16
SHEET 28 OF 45



PILE HOOP - PLAN

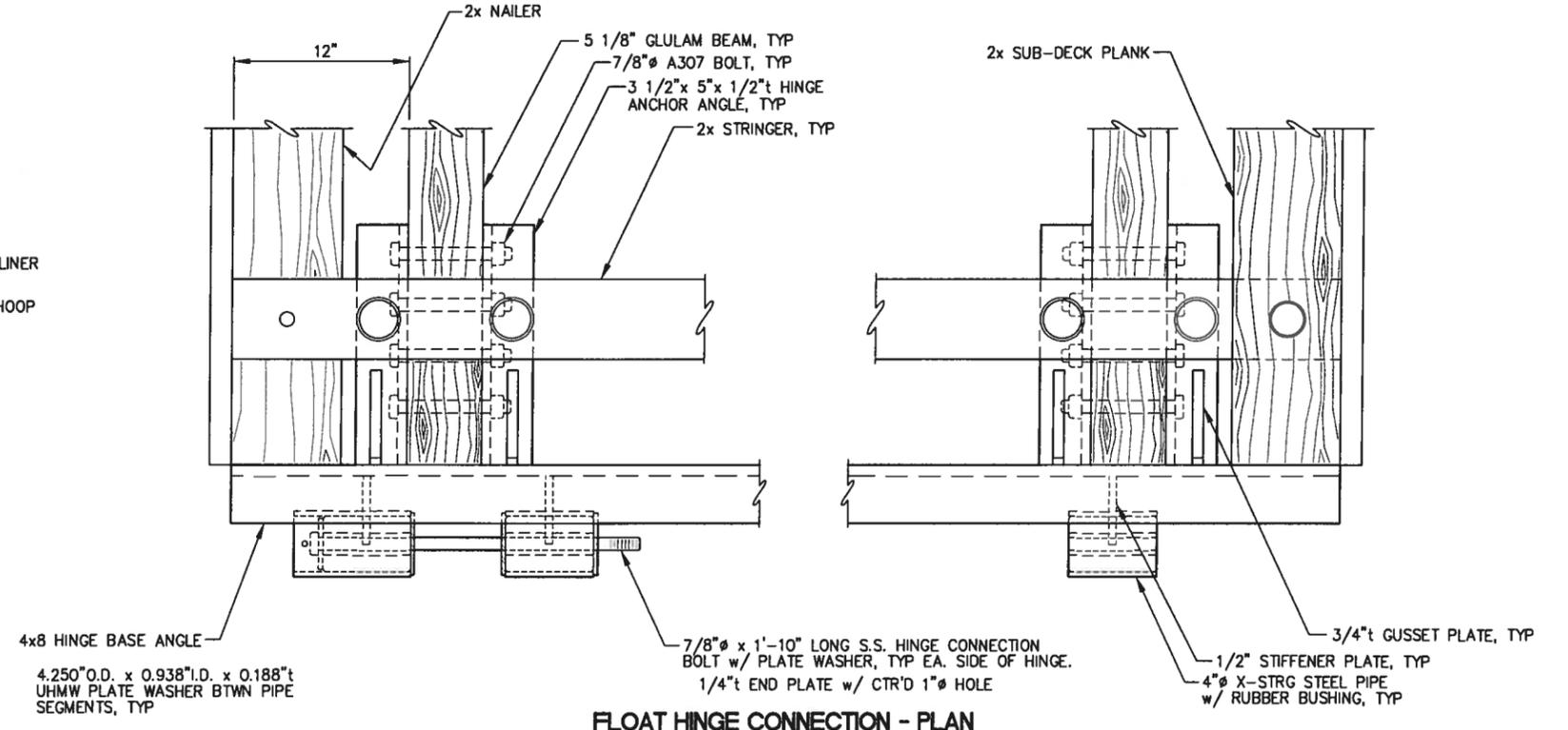


SECTION



4-FT FINGER FLOAT PIANO HINGE - PLAN

NOTE: DETAILS NOT SHOWN SIMILAR TO TYPICAL 4-FT FINGER FLOAT PIANO HINGE.



FLOAT HINGE CONNECTION - PLAN

NOTE: DETAILS NOT SHOWN SIMILAR TO TYPICAL FLOAT HINGE CONNECTION.

REVISIONS

REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

PND CONSULTING ENGINEERS
 Incorporated
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 Juneau, Alaska 99801
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 www.pnd-anc.com

DESIGN: JLD CHECKED: CRS
 DRAWN: JLD APPROVED: CRS
 SCALE: NTS



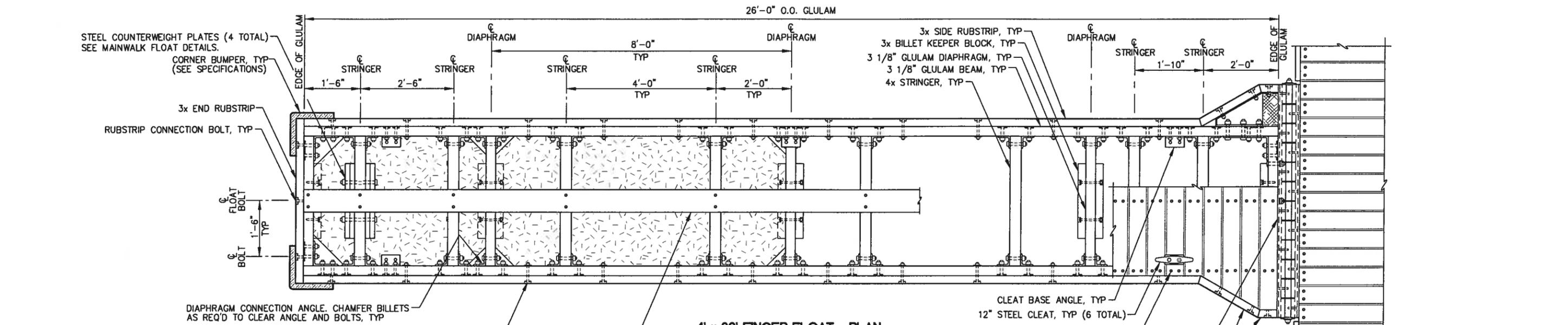
**PETERSBURG, ALASKA
 MIDDLE HARBOR RENOVATION**

SHEET TITLE:
**MAINWALK END BALLAST
 FLOAT DETAILS**

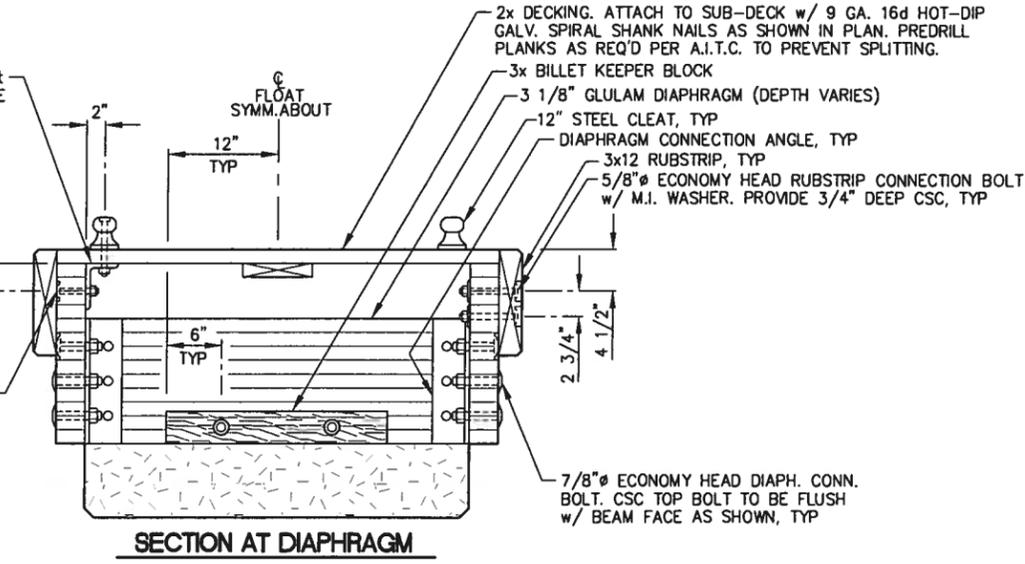
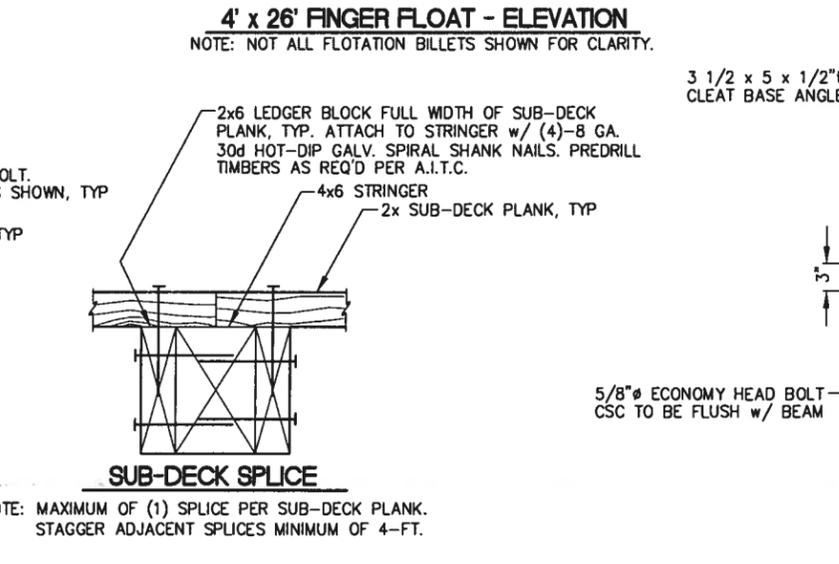
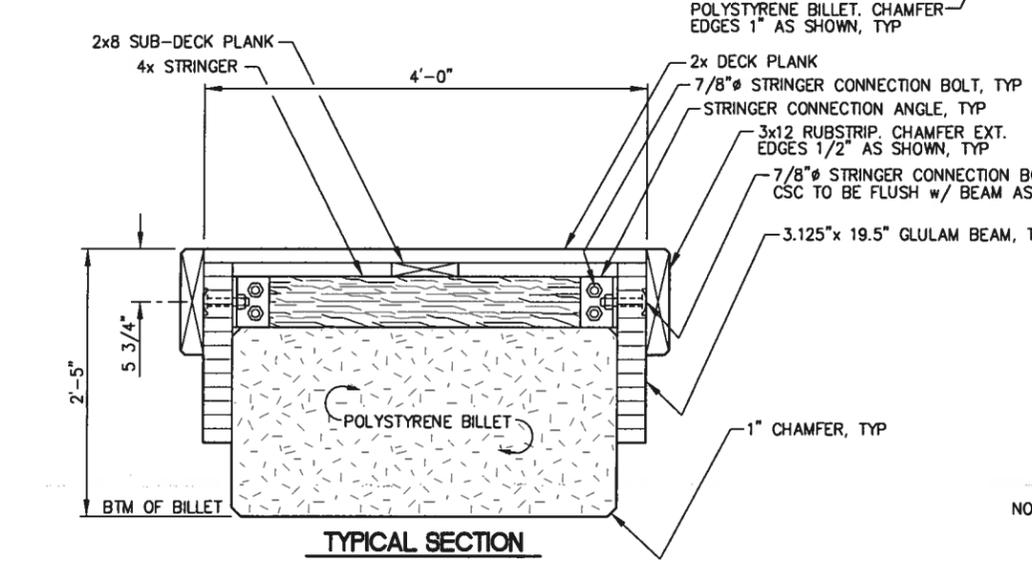
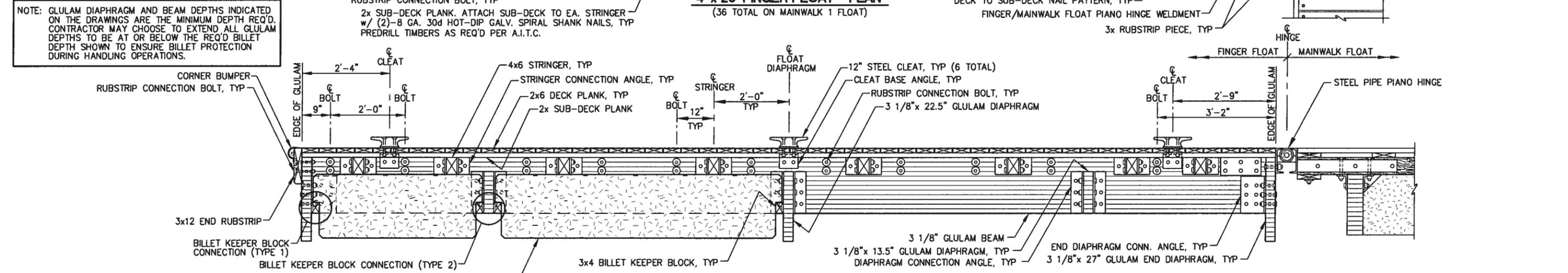
DATE: 4/8/05

PND PROJECT NO. 042011.02 DWG. FILE: 318.0WG

3.18
 SHEET 30 OF 45



NOTE: GLULAM DIAPHRAGM AND BEAM DEPTHS INDICATED ON THE DRAWINGS ARE THE MINIMUM DEPTH REQ'D. CONTRACTOR MAY CHOOSE TO EXTEND ALL GLULAM DEPTHS TO BE AT OR BELOW THE REQ'D BILLET DEPTH SHOWN TO ENSURE BILLET PROTECTION DURING HANDLING OPERATIONS.



REVISIONS

REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

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SCALE: NTS



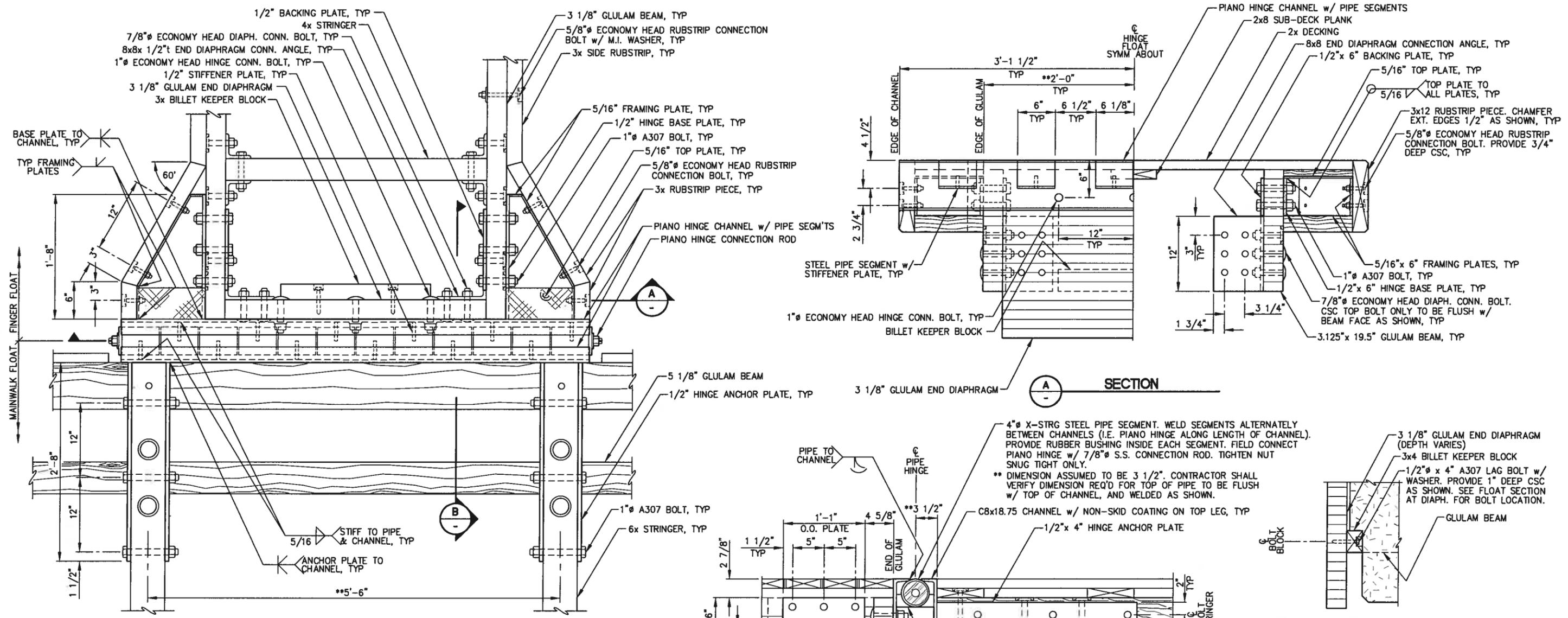
PETERSBURG, ALASKA MIDDLE HARBOR RENOVATION

SHEET TITLE: **4-FT x 26-FT FINGER FLOAT UNIT**

DATE: 4/8/05

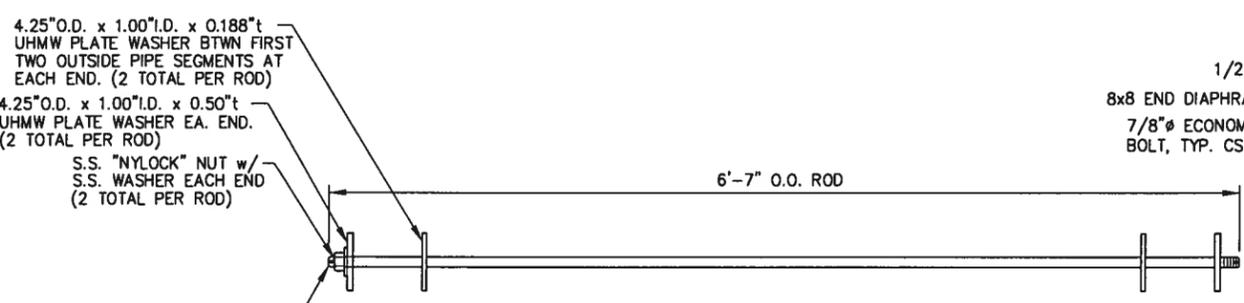
PND PROJECT NO. 042011.02 DWG. FILE: 320.DWG

3.20
SHEET 32 OF 45



4-FT FINGER FLOAT PIANO HINGE- PLAN

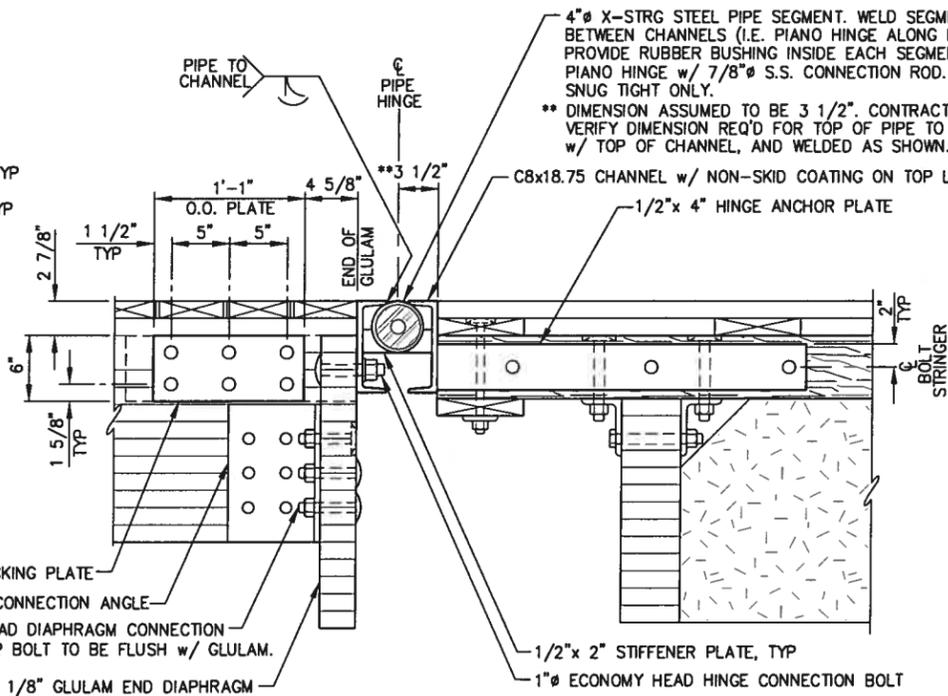
**NOTE: STEEL FABRICATOR TO COORD. w/ FLOAT FABRICATOR FOR CLEAR DISTANCE BTWN. ANCHOR AND BASE PLATES TO ALLOW FOR SWELLING OF TIMBERS DUE TO TREATMENT.



4-FT FINGER FLOAT PIANO HINGE CONNECTION ROD

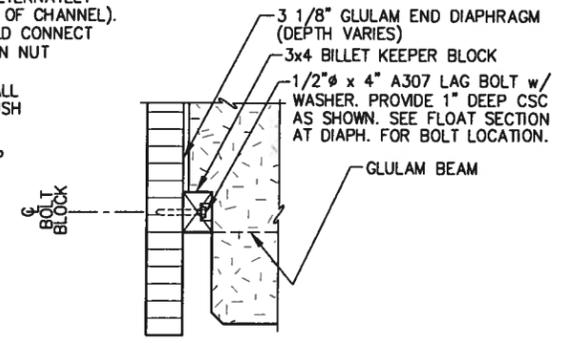
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SECTION

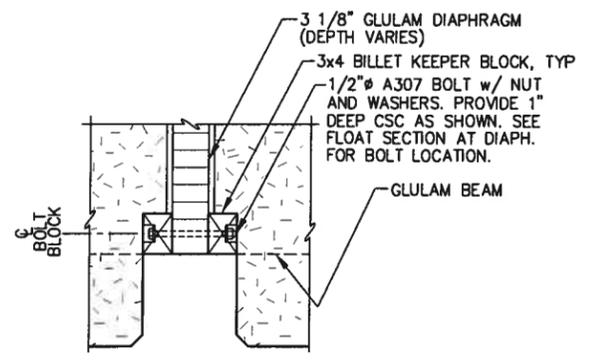


END SECTION

BILLET KEEPER - ELEVATION (TYPE 1)



BILLET KEEPER - ELEVATION (TYPE 2)



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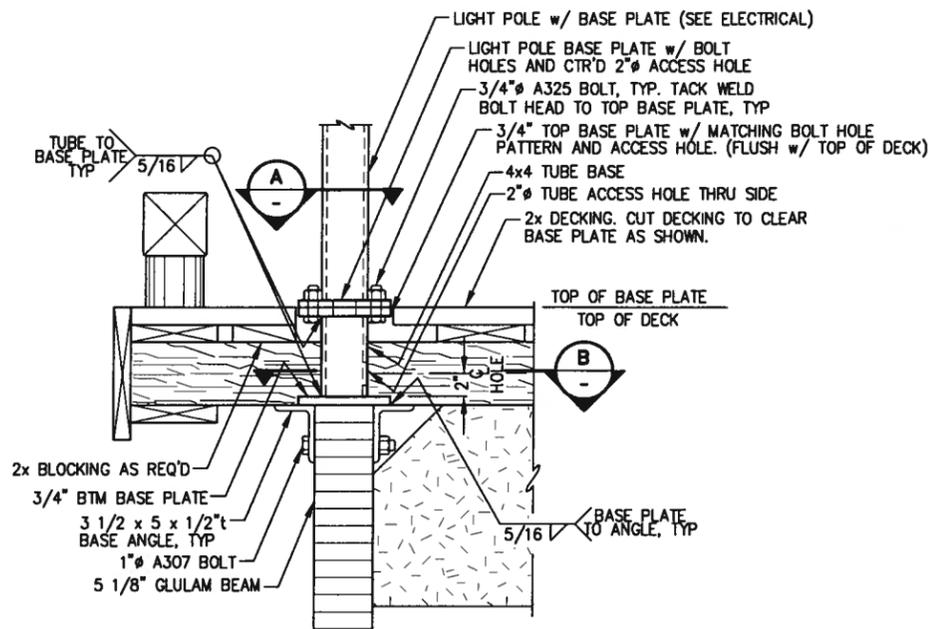
PETERSBURG, ALASKA MIDDLE HARBOR RENOVATION

SHEET TITLE: **FINGER FLOAT UNIT DETAILS**

DATE: 4/8/05

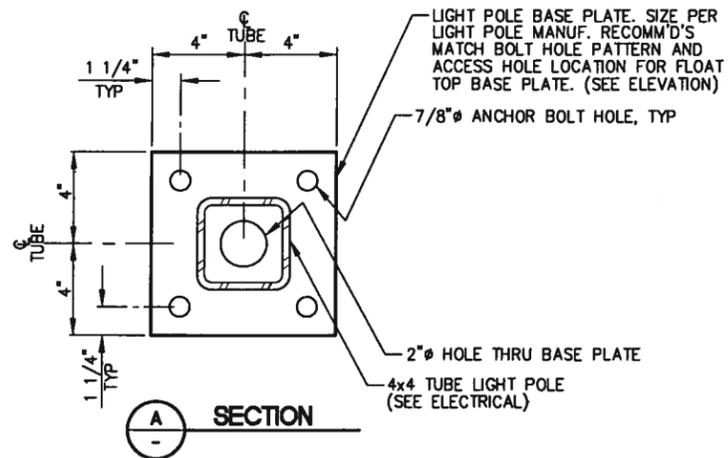
PNAD PROJECT NO. 042011.02 DWG. FILE: 322.DWG

3.22
SHEET 34 OF 45

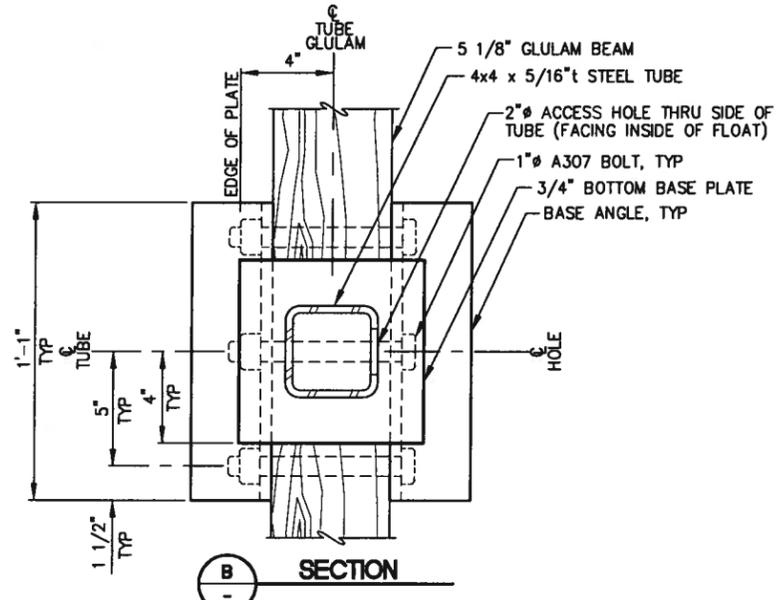


LIGHT POLE BASE - ELEVATION

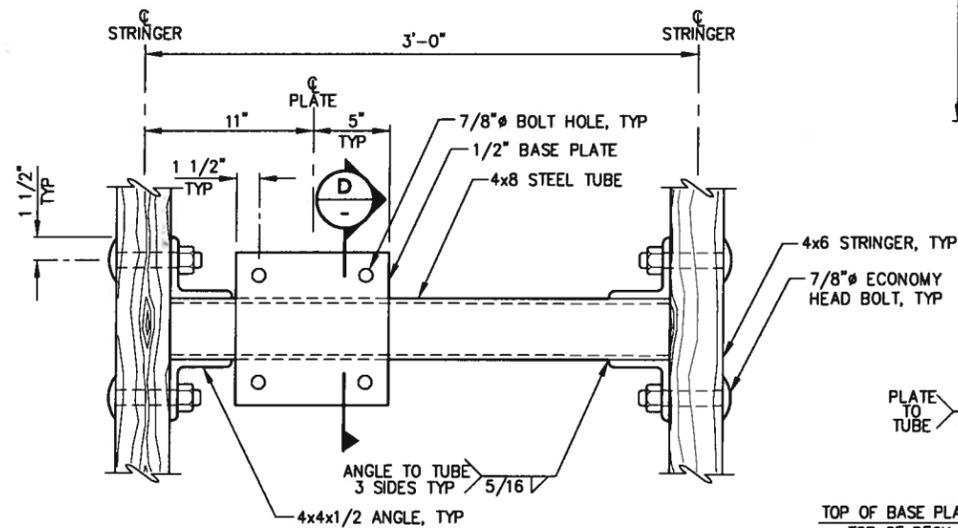
NOTE: SEE FLOAT PLANS FOR LOCATION. ADJUST LOCATION AS REQUIRED TO CLEAR STRINGER LOCATIONS INDICATED ON FLOAT FRAMING PLANS.



A SECTION

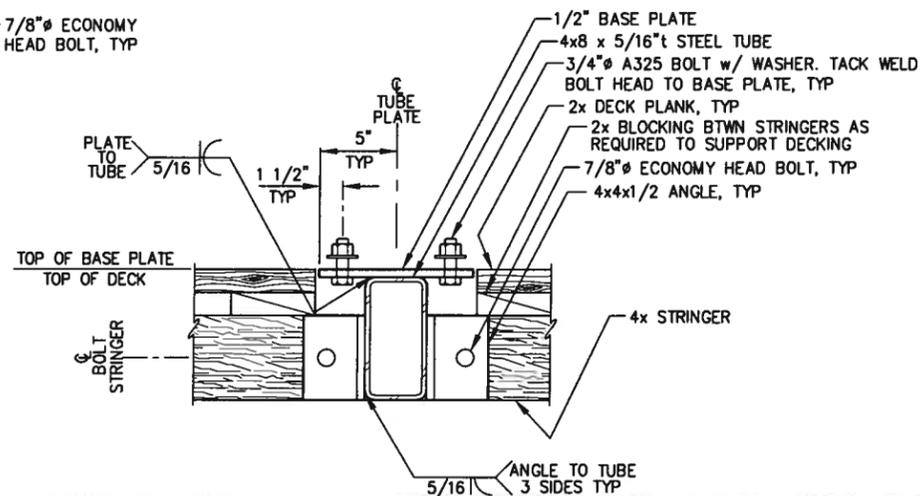


B SECTION

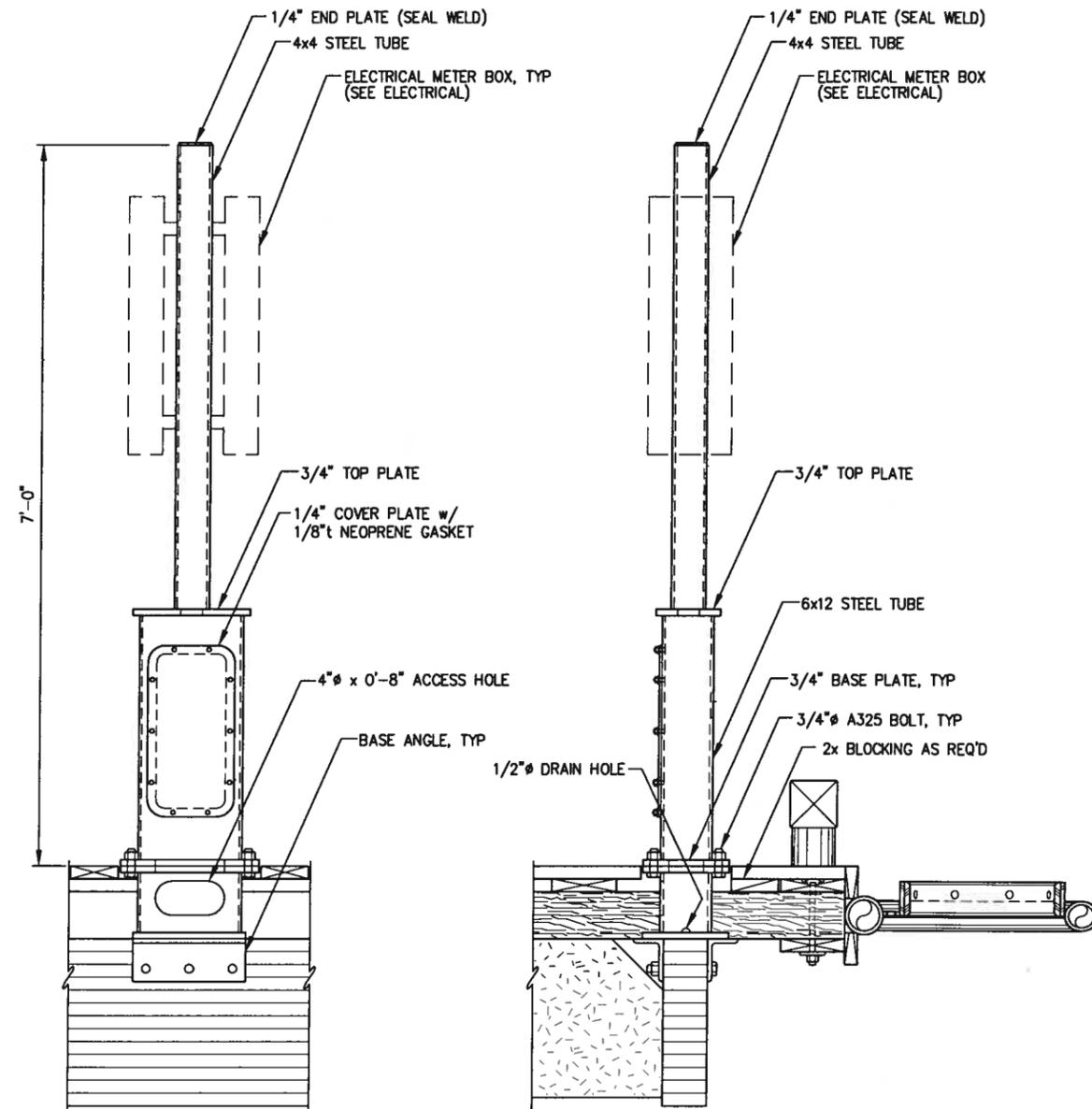


SUPPORT POST BASE PLATE - PLAN

(3 TOTAL ON GANGWAY LANDING FLOAT)



D BASE PLATE - SECTION



PEDESTAL BASE - ELEVATION

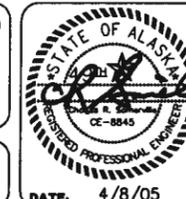
NOTE: SEE FLOAT PLANS FOR LOCATION. ADJUST LOCATION AS REQUIRED TO CLEAR STRINGER LOCATIONS INDICATED ON FLOAT FRAMING PLANS. DETAILS NOT SHOWN SIMILAR TO LIGHT POLE BASE.

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PETERSBURG, ALASKA MIDDLE HARBOR RENOVATION

SHEET TITLE: **EQUIPMENT SUPPORT DETAILS**

3.28

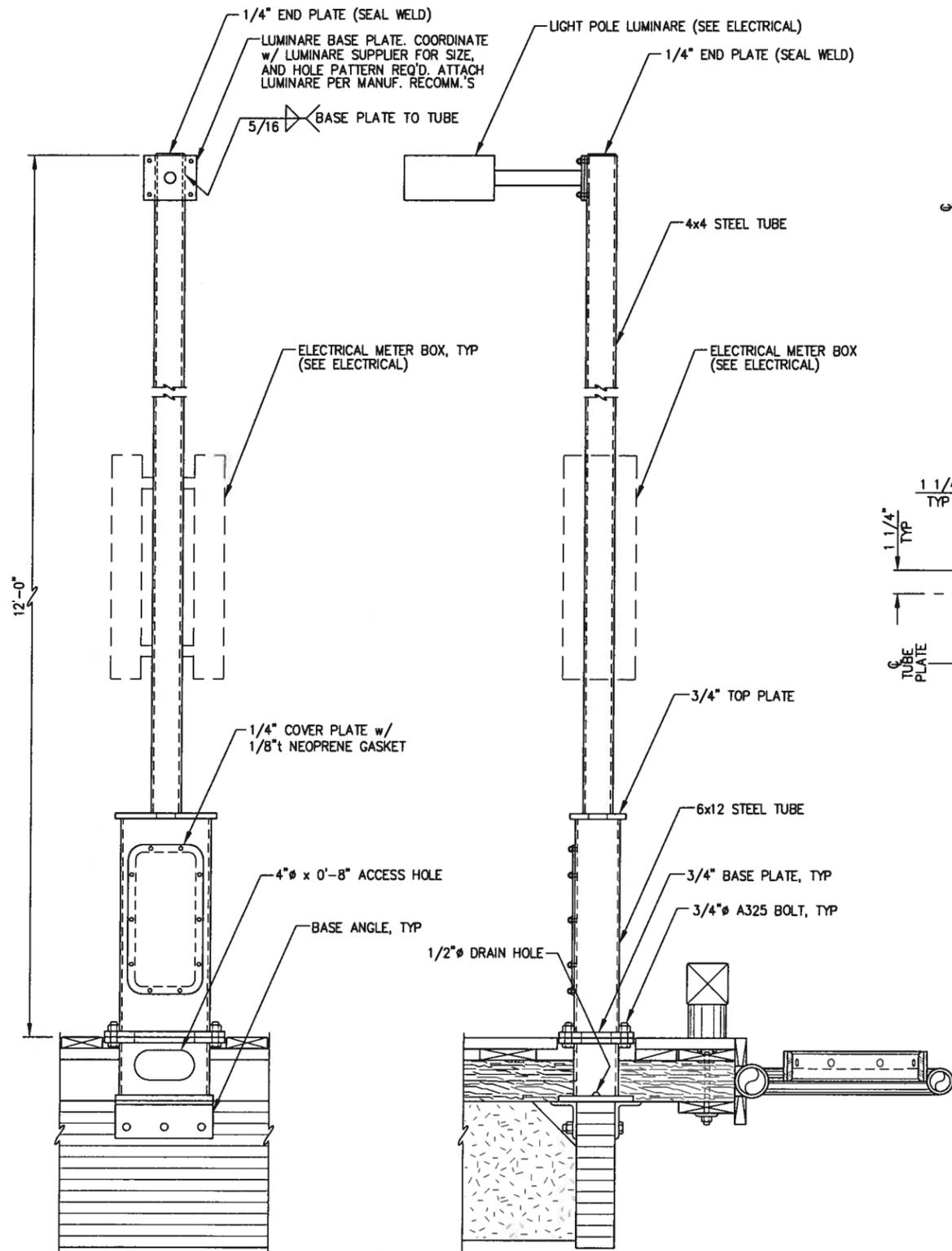
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SCALE:

DATE: 4/8/05

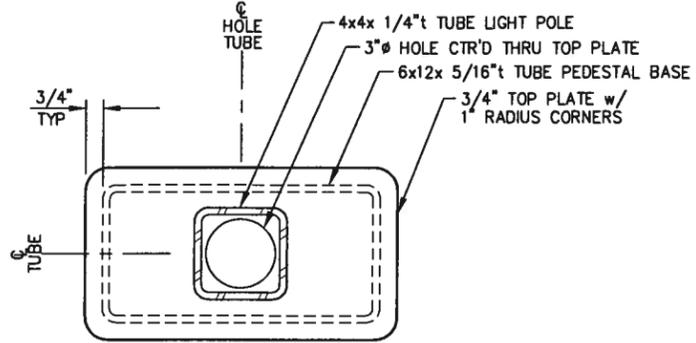
PND PROJECT NO. 042011.02 DWG. FILE: 328.DWG

SHEET 40 OF 45

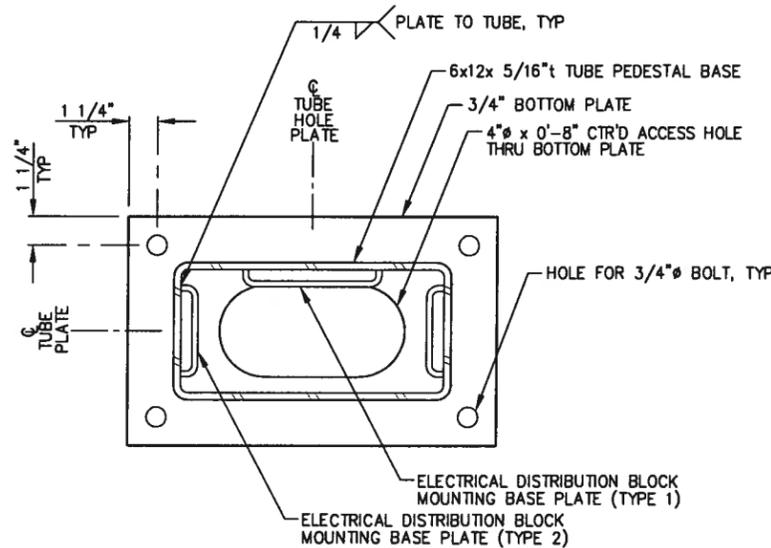


LIGHT POLE w/ PEDESTAL BASE - ELEVATION

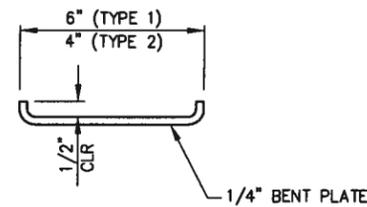
NOTE: SEE FLOAT PLANS FOR LOCATION. ADJUST LOCATION AS REQUIRED TO CLEAR STRINGER LOCATIONS INDICATED ON FLOAT FRAMING PLANS. DETAILS NOT SHOWN SIMILAR TO LIGHT POLE BASE.



SECTION A

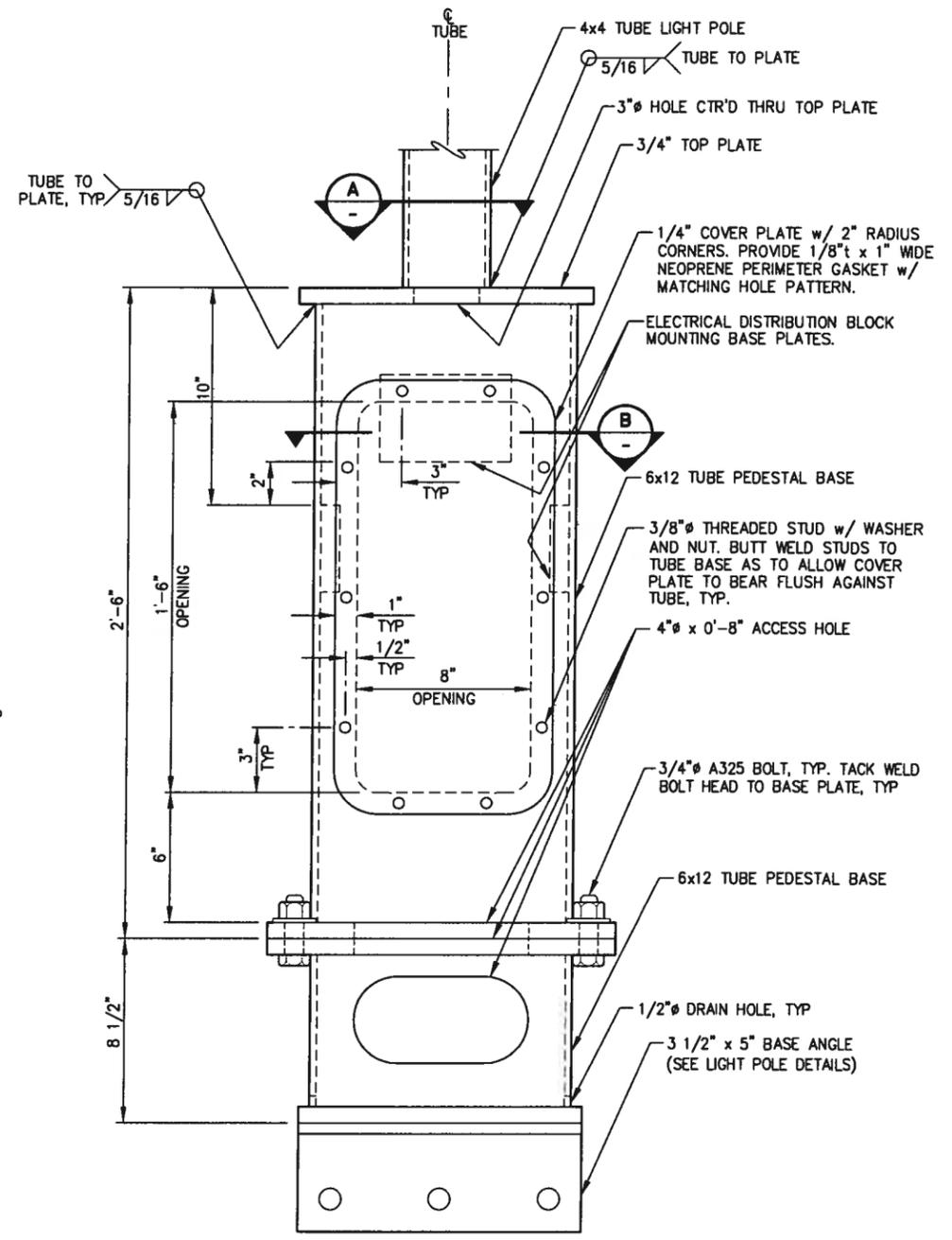


SECTION B



ELECTRICAL MOUNTING BASE PLATE

PROVIDE TAPPED HOLES AS REQ'D TO MOUNT POWER DISTRIBUTION BLOCKS. COORDINATE w/ ELECTRICAL SUPPLIER TO MATCH HOLE PATTERN OF BLOCKS SUPPLIED. CONTRACTOR SHALL CHASE THREADS AS REQ'D DURING FIELD INSTALLATION OF ELECTRICAL EQUIPMT. WATERPROOF GREASE SHALL BE APPLIED TO ALL CHASED THREADS.



ELECTRICAL PEDESTAL - ELEVATION

REVISIONS					
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**PETERSBURG, ALASKA
MIDDLE HARBOR RENOVATION**

SHEET TITLE:
EQUIPMENT SUPPORT DETAILS

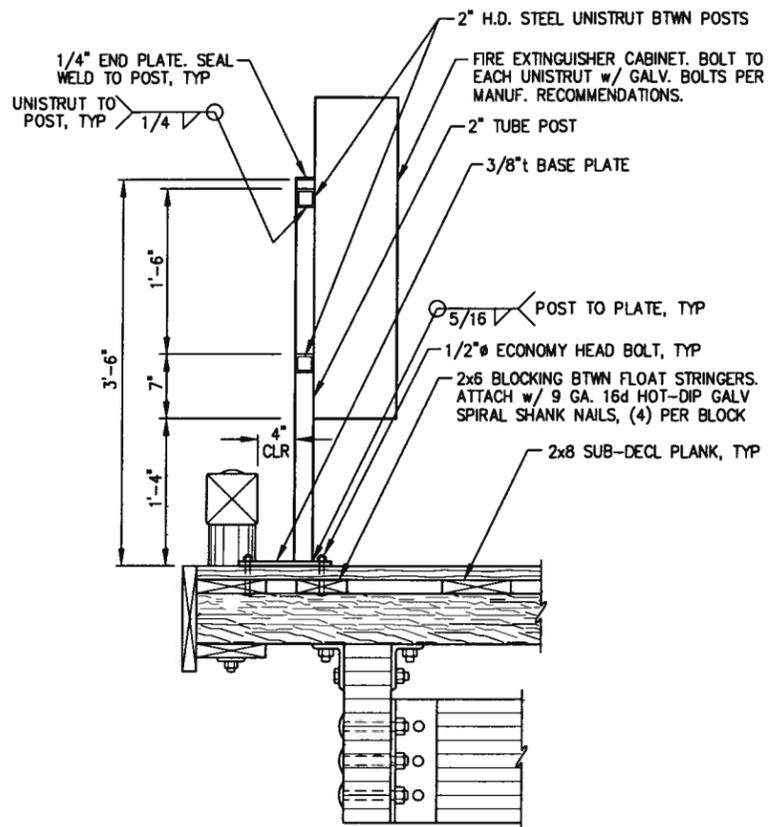
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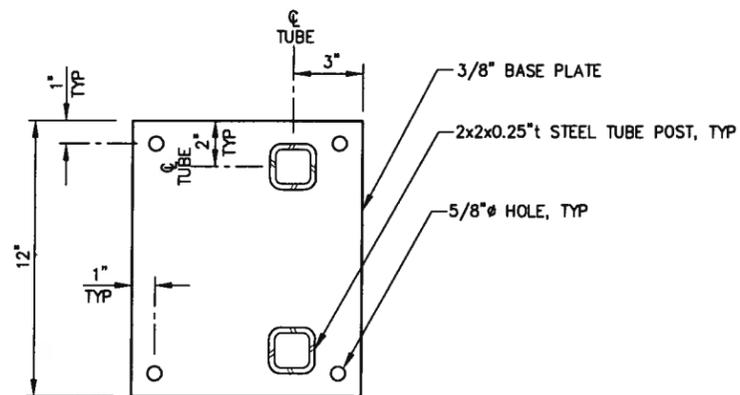
SCALE:

PND PROJECT NO. 042011.02 DWG. FILE: 329.DWG

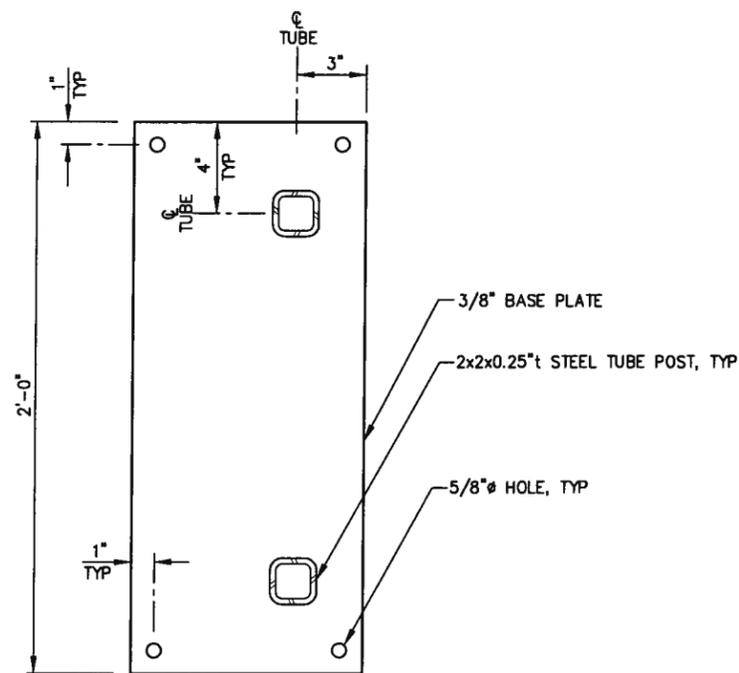
SHEET
41 OF 45



LIFE RING/FIRE EXTINGUISHER CABINET MOUNT - ELEVATION
(LOCATE PER FLOAT PLAN)



FIRE EXTING. BASE - PLAN



LIFE RING BASE - PLAN

REVISIONS

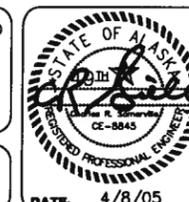
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

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SCALE:



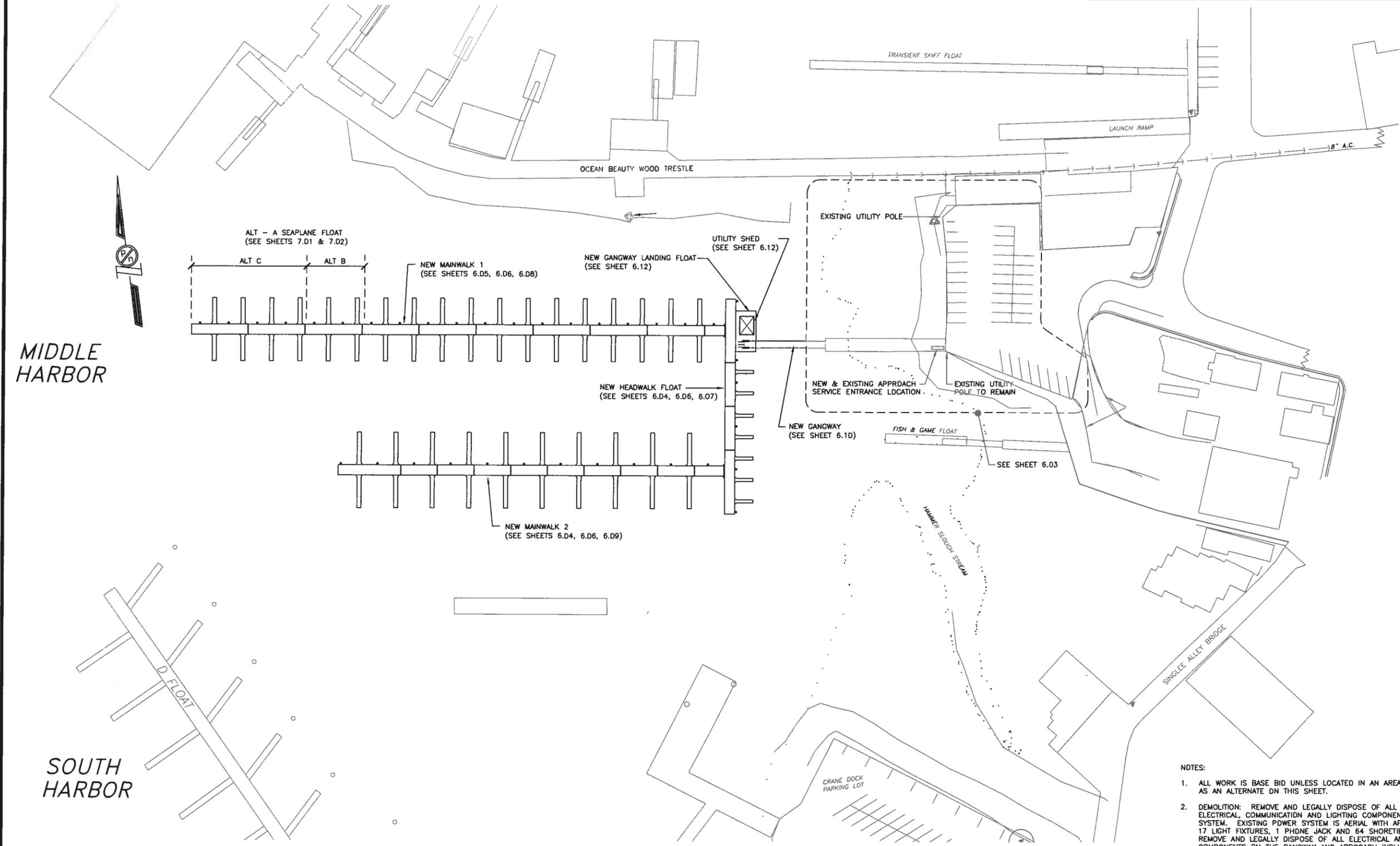
**PETERSBURG, ALASKA
MIDDLE HARBOR RENOVATION**

SHEET TITLE:
EQUIPMENT SUPPORT DETAILS

DATE: 4/8/05

PN&D PROJECT NO. 042011.02 DWG. FILE: 330.DWG

3.30
SHEET
42 OF 45



LEGEND

- ABBREVIATIONS**
- AFF ABOVE FINISHED FLOOR
 - AFG ABOVE FINISHED GRADE
 - CATV CABLE TELEVISION
 - COMM COMMUNICATIONS
 - CT CURRENT TRANSFORMER
 - DIA DIAMETER
 - EA EACH
 - GFI GROUND FAULT INTERRUPTER
 - GND GROUND
 - GRS GALVANIZED RIGID STEEL
 - HDG HOT DIPPED GALVANIZED
 - HDA HAND-OFF-AUTO
 - LC LIGHTING CONTACTOR
 - MDP MAIN DISTRIBUTION PANEL
 - MIN MINIMUM
 - MTD MOUNTED
 - PH PHASE
 - PVC POLYVINYL CHLORIDE
 - SS STAINLESS STEEL
 - TEL TELEPHONE
 - TYP TYPICAL
 - UON UNLESS OTHERWISE NOTED
 - WP WEATHERPROOF
 - XFMR TRANSFORMER
- POWER**
- SHOR-TIE PEDESTAL WITH DUAL 30 AMP 120V, 1 PH RECEPTACLES
 - POLE MOUNTED LUMINAIRE
 - HANDHOLE
 - JUNCTION BOX
 - CONDUIT
 - UTILITY POLE
 - PANELBOARD
 - GROUND ROD
 - PHOTO ELECTRIC CONTROL

- NOTES:**
- ALL WORK IS BASE BID UNLESS LOCATED IN AN AREA DESIGNATED AS AN ALTERNATE ON THIS SHEET.
 - DEMOLITION: REMOVE AND LEGALLY DISPOSE OF ALL EXISTING ELECTRICAL, COMMUNICATION AND LIGHTING COMPONENTS ON FLOAT SYSTEM. EXISTING POWER SYSTEM IS AERIAL WITH APPROXIMATELY 17 LIGHT FIXTURES, 1 PHDNE JACK AND 64 SHOR-TIE PEDESTALS. REMOVE AND LEGALLY DISPOSE OF ALL ELECTRICAL AND LIGHTING COMPONENTS ON THE GANGWAY AND APPROACH INCLUDING SERVICE ENTRANCE GEAR AT UTILITY POLE. REFER TO CIVIL DRAWINGS FOR EXISTING SITE PLAN ARRANGEMENT.
 - SALVAGE: PETERSBURG MUNICIPAL POWER & LIGHT (PMP&L) WILL REMOVE ANY EQUIPMENT TO BE SALVAGED BY THE CITY PRIOR TO DEMOLITION. CONTRACTOR SHALL COORDINATE THE DEMOLITION SCHEDULE DIRECTLY WITH PMP&L.

SITE PLAN-NEW



HAIGHT & ASSOCIATES
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DESIGN: MAS CHECKED: BCH
DRAWN: PEL APPROVED: BCH

SCALE: SCALE IN FEET
0 50 100 FT.



**PETERSBURG, ALASKA
MIDDLE HARBOR RENOVATION**

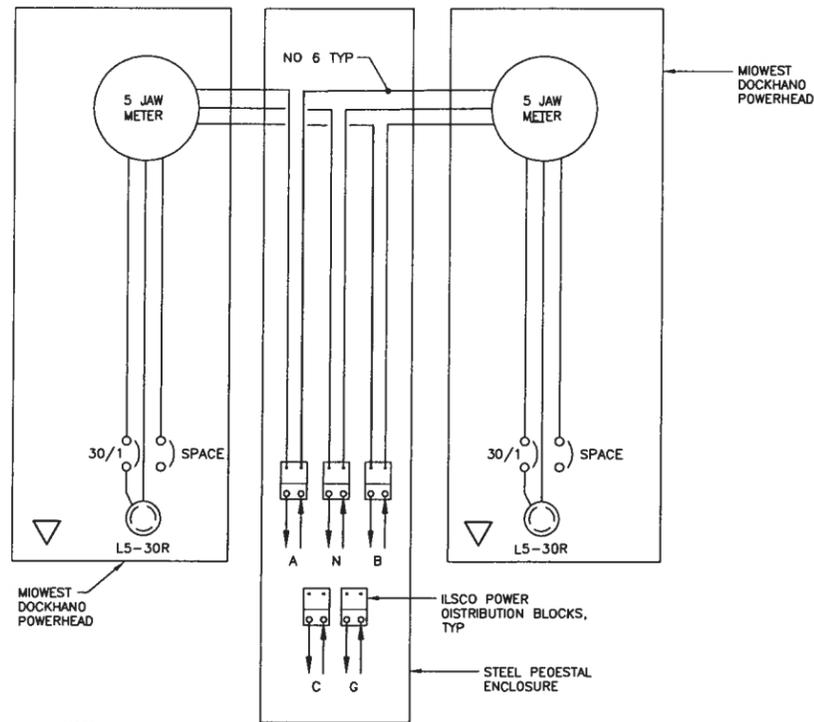
SHEET TITLE: **ELECTRICAL SITE PLAN**

PH&D PROJECT NO. 042011.02 DWG. FILE: 46e601.dwg

6.01
SHEET
EI OF 14

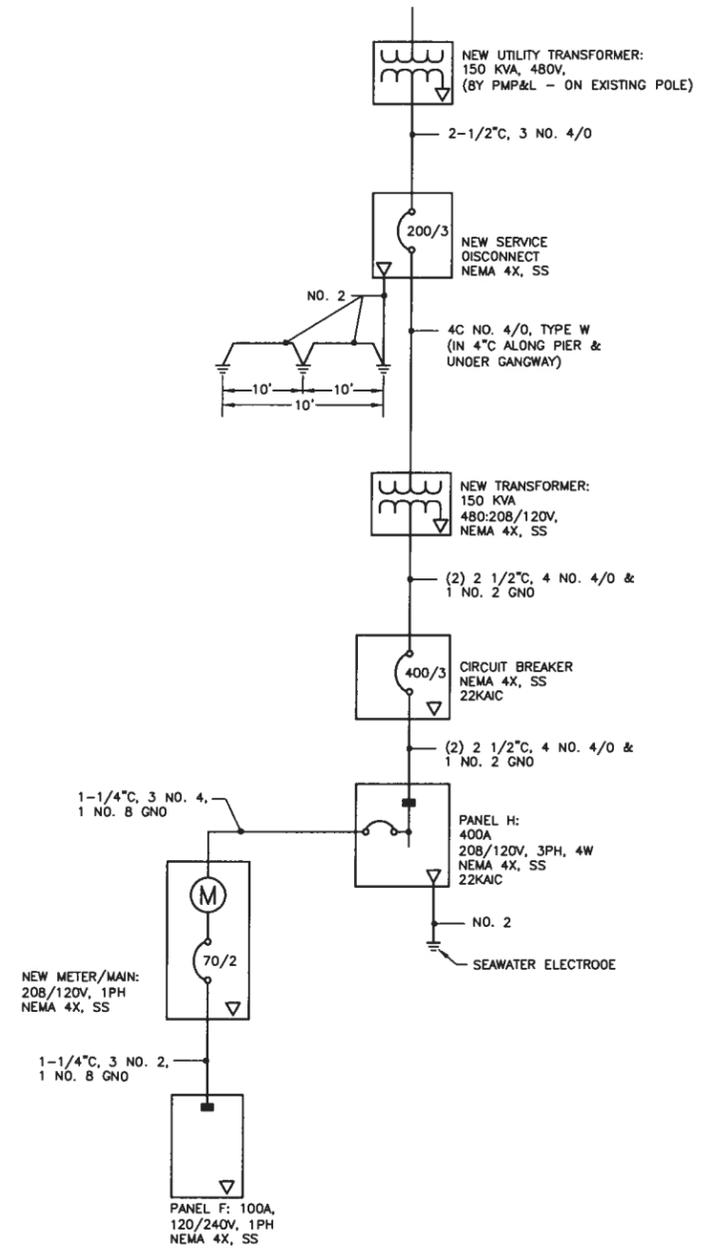
PANEL H		SIZE	VOLTS/PHASE			MAIN	LOCATION	MOUNT		
		400 AMPS	120/208V, 3 PH			MLO	GANGWAY FLOAT	SURFACE		
C_K_T NO	DESCRIPTION	BREAKER AMP/POLE	KVA			BREAKER AMP/POLE	DESCRIPTION	C_K_T NO		
			CKT	AØ	BØ	CKT				
1	PEDESTALS 111, 113, 115, 117, 119, 121, 123	175/3	14.0	14.0		0.0	---	SPACE	2	
3	---	---	14.0		14.0	0.0	---	SPACE	4	
5	---	---	14.0			0.0	---	SPACE	6	
7	PEDESTALS 110, 112, 114, 116, 118, 120, 122	175/3	14.0	27.0		13.0	175/3	PEDESTALS 210, 212, 214, 216, 218, 220, 222	8	
9	---	---	14.0		27.0	13.0	---	---	10	
11	---	---	14.0			24.4	10.4	---	12	
13	PEDESTALS 129, 131, 133, 135, 137, 139	175/3	10.4	20.8		10.4	175/3	PEDESTALS 211, 213, 215, 217, 219, 221, 223	14	
15	---	---	10.4		23.4	13.0	---	---	16	
17	---	---	10.4			23.4	13.0	---	18	
19	PEDESTALS 128, 130, 132, 134, 136, 138	175/3	10.4	15.6		5.2	175/3	PEDESTALS 224, 226, 228, 230	20	
21	---	---	10.4		18.2	7.8	---	---	22	
23	---	---	10.4			18.2	7.8	---	24	
25	PEDESTALS 141, 143, 145, 147	175/3	7.8	15.6		7.8	175/3	PEDESTALS 225, 227, 229, 231	26	
27	---	---	7.8		13.0	5.2	---	---	28	
29	---	---	5.2			13.0	7.8	---	30	
31	PEDESTALS 140, 142, 144, 146	175/3	5.2	5.2		0.0	---	SPACE	32	
33	---	---	7.8		7.8	0.0	---	SPACE	34	
35	---	---	7.8			7.8	0.0	---	SPACE	36
37	SPACE	---	0.0	5.0		5.0	70/2	PANEL F	38	
39	SPACE	---	0.0		6.3	6.3	---	---	40	
41	SPACE	---	0.0		0.0	0.0	---	---	42	
BALANCED CONNECTED LOAD = 313.7 KVA / 871 AMPS			103.2	109.7	100.8	BALANCED DEMAND LOAD = 106 KVA / 295 AMPS				
MAXIMUM CONNECTED LOAD = 313.7 KVA / 914 AMPS						MAXIMUM DEMAND LOAD = 106 KVA / 309 AMPS				

PANEL F		SIZE	VOLTS/PHASE			MAIN	LOCATION	MOUNT	
		100 AMPS	120/240V, 1 PH			MLO	GANGWAY FLOAT	SURFACE	
C_K_T NO	DESCRIPTION	BREAKER AMP/POLE	KVA			BREAKER AMP/POLE	DESCRIPTION	C_K_T NO	
			CKT	AØ	BØ	CKT			
1	FLOAT LIGHTING CONTROLS	LTG	20/1	0.3	0.8	0.5	20/1	SHEO	2
3	FLOAT LIGHTING		20/1	0.9		0.9	20/1	SPARE	4
5	FLOAT LIGHTING		20/1	1.0	1.2	2.0	30/2	SHEO HEATER	6
7	GANGWAY LIGHTING		20/1	0.5		2.5	---	---	8
9	UTILITY SHEO LIGHTING		20/1	0.1	0.1	0.0	20/1	SPARE	10
11	SPARE		20/1	0.0		0.0	20/1	SPARE	12
13	SPARE		20/1	0.0	2.9	2.9	30/2	HEADWALK PEDESTAL	14
15	SPACE		---	0.0		2.9	---	---	16
17	SPACE		---	0.0	0.0	0.0	20/1	SPARE	18
19	SPACE		---	0.0		0.0	20/1	SPARE	20
21	SPACE		---	0.0	0.0	0.0	20/1	SPARE	22
23	SPACE		---	0.0		0.0	20/1	SPARE	24
TOTAL CONNECTED LOAD = 11.3 KVA / 52 AMPS			5.0	6.3					



- NOTES:
- REFER TO POWER PLANS FOR PHASE CONNECTIONS AT EACH PEDESTAL, A & B CONNECTION ILLUSTRATED.
 - INSTALL NO. 6 CONDUCTOR BETWEEN POWER DISTRIBUTION BLOCKS AND METER BASES.

WIRING DIAGRAM - 30A PEDESTAL
NO SCALE



SINGLE LINE DIAGRAM
NO SCALE



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DRAWN: PEL APPROVED: BCH



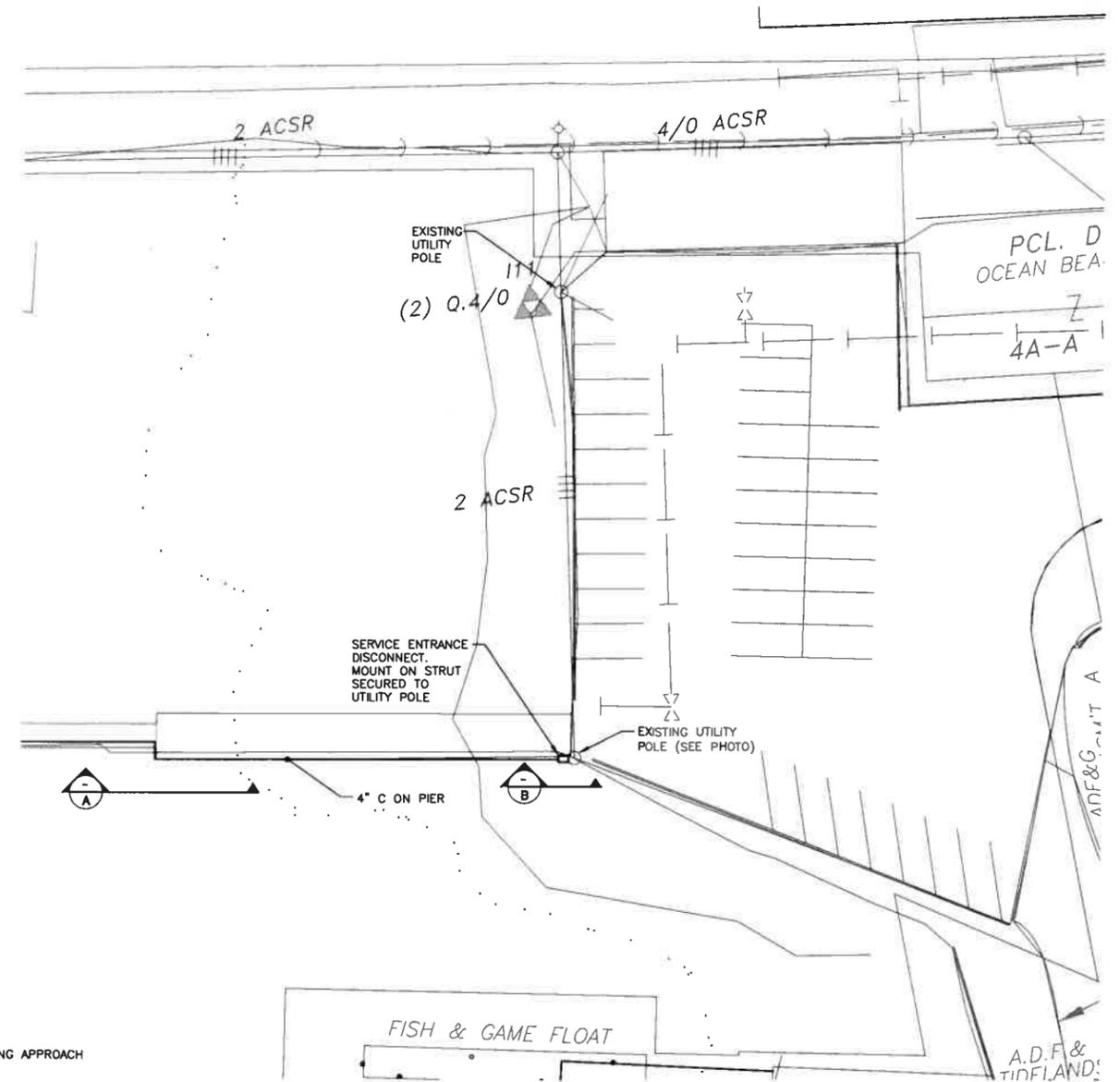
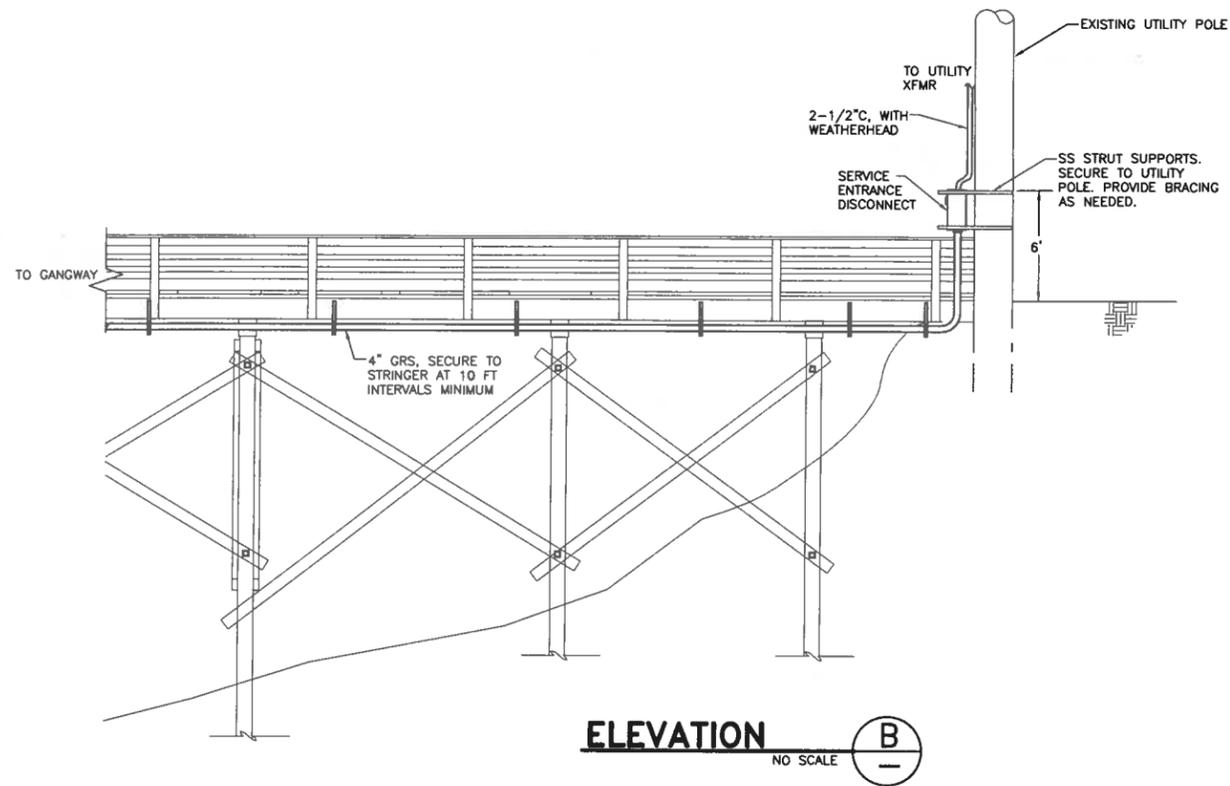
DATE: 4/8/05

**PETERSBURG, ALASKA
MIDDLE HARBOR RENOVATION**

SHEET TITLE:
**SINGLE LINE & WIRING DIAGRAMS,
PANEL SCHEDULES**

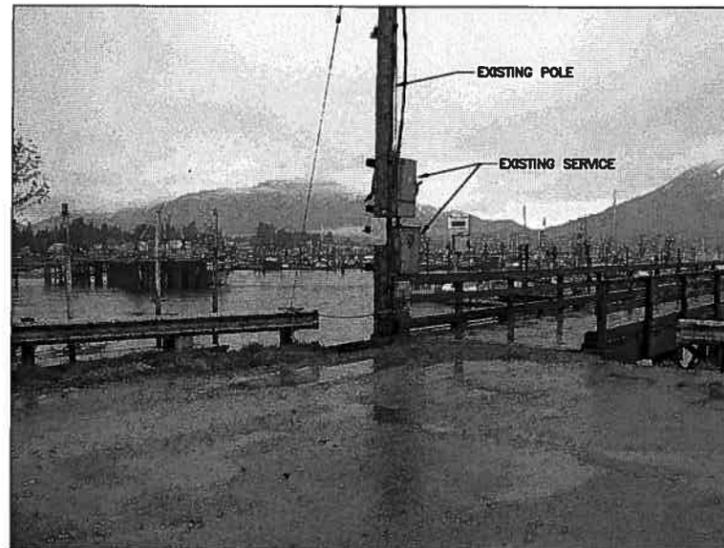
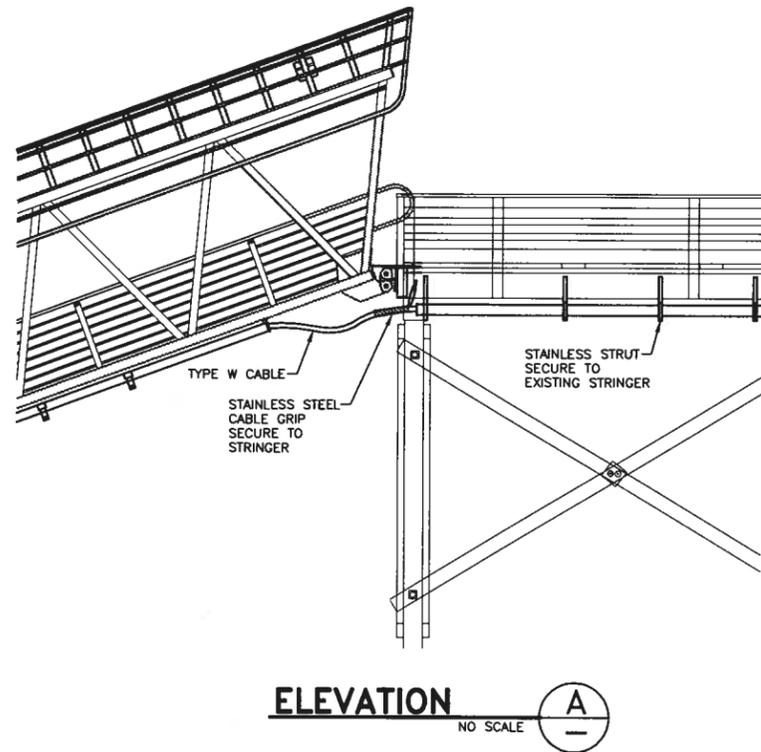
PND PROJECT NO. 042011.02 DWG. FILE: 46e602.dwg

6.02
SHEET
E2 OF 14



PARTIAL SITE PLAN - UPLANDS

- NOTES:
1. REMOVE AND DISPOSE OF EXISTING SERVICE ENTRANCE EQUIPMENT ON APPROACH.
 2. OVERHEAD TRANSFORMER REPLACEMENT BY UTILITY. COORDINATE WITH PMP&L FOR POWER DISCONNECT DURING DEMOLITION AND RECONNECT DURING CONSTRUCTION.



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DESIGN: MAS CHECKED: BCH
DRAWN: PEL APPROVED: BCH

SCALE: SCALE IN FEET
0 20 40 FT.

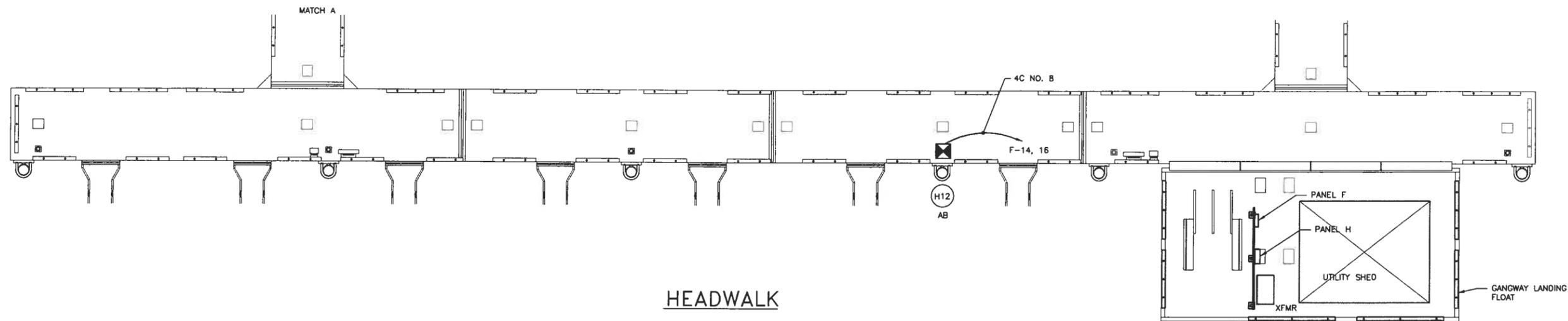
DATE: 4/8/05

**PETERSBURG, ALASKA
MIDDLE HARBOR RENOVATION**

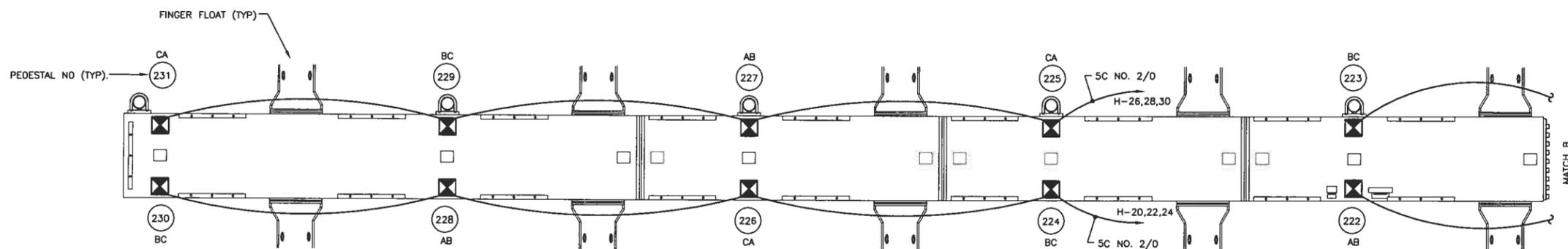
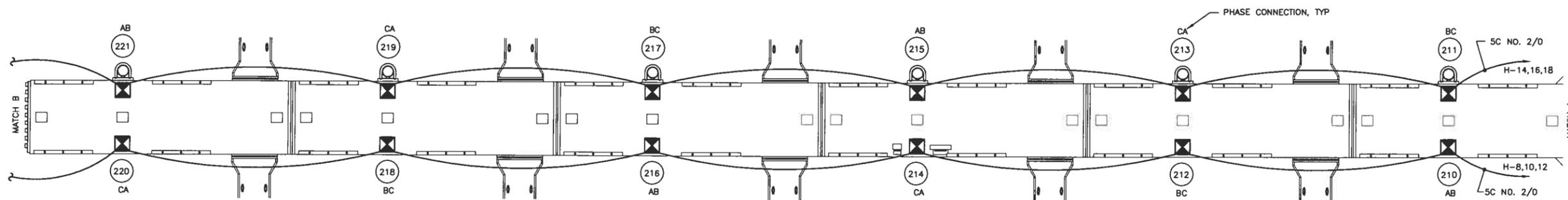
SHEET TITLE:
**POWER PLAN & DETAILS
APPROACH**

PH&D PROJECT NO.: 042011.02 DWG. FILE: 46e603.dwg

6.03
SHEET
E3 OF 14



HEADWALK



MAINWALK 2

NOTES:

1. POWER PEDESTALS SHALL BE LOCATED IN CENTER BETWEEN FINGERS. SEE CIVIL DRAWINGS FOR EXACT DIMENSIONS.
2. PEDESTAL CABLE SIZE IS FOR ENTIRE FEEDER, UON.

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DATE: 4/8/05

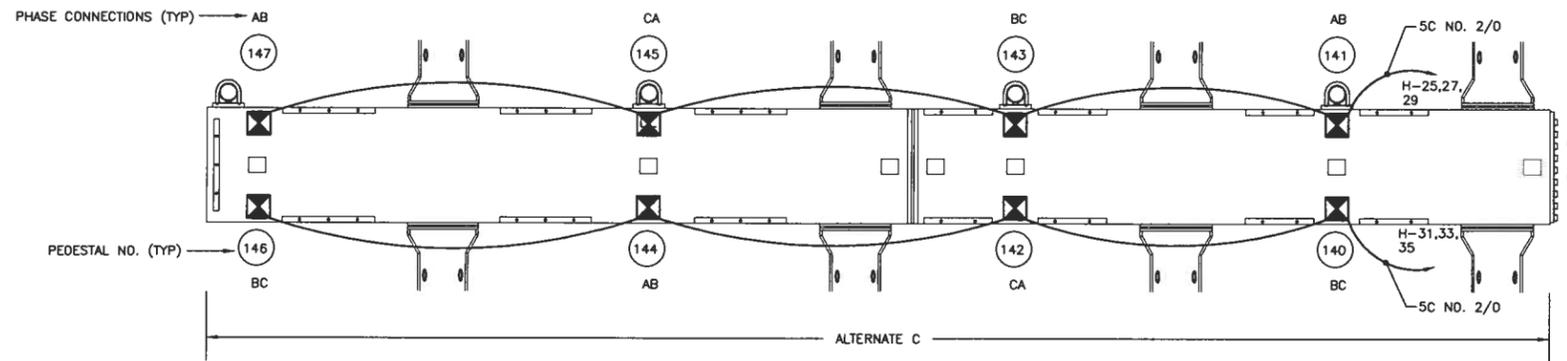
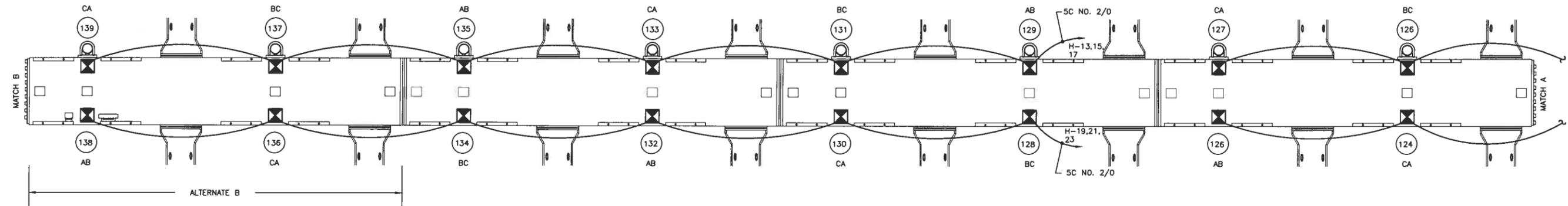
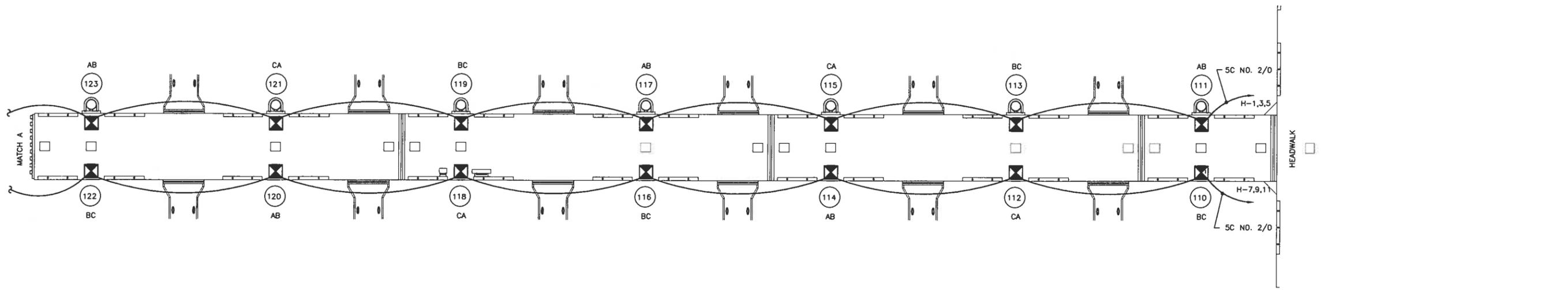
**PETERSBURG, ALASKA
MIDDLE HARBOR RENOVATION**

SHEET TITLE:
**POWER PLAN
HEADWALK & MAINWALK 2**

PH&D PROJECT NO. 042011.02 | DWG. FILE: 46e604.dwg

6.04
SHEET
E4 OF 14

DESIGN: _____ CHECKED: _____ SCALE: SCALE IN FEET
DRAWN: _____ APPROVED: _____ 0 8 16 FT.



- NOTES:
1. POWER PEDESTALS SHALL BE LOCATED IN CENTER BETWEEN FINGERS. SEE CIVL DRAWINGS FOR EXACT DIMENSIONS.
 2. PEDESTAL CABLE SIZE IS FOR ENTIRE FEEDER, UON.

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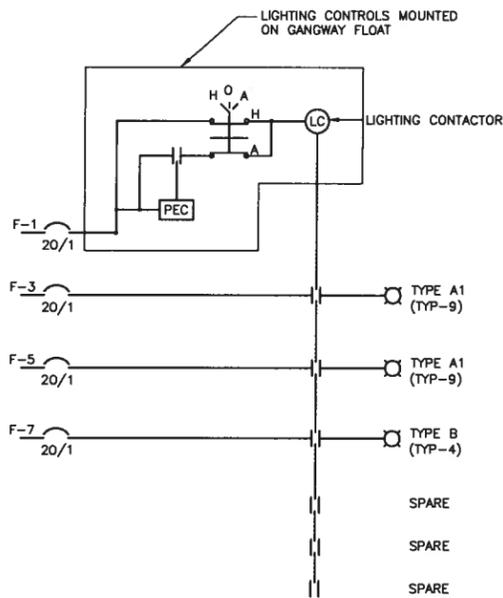
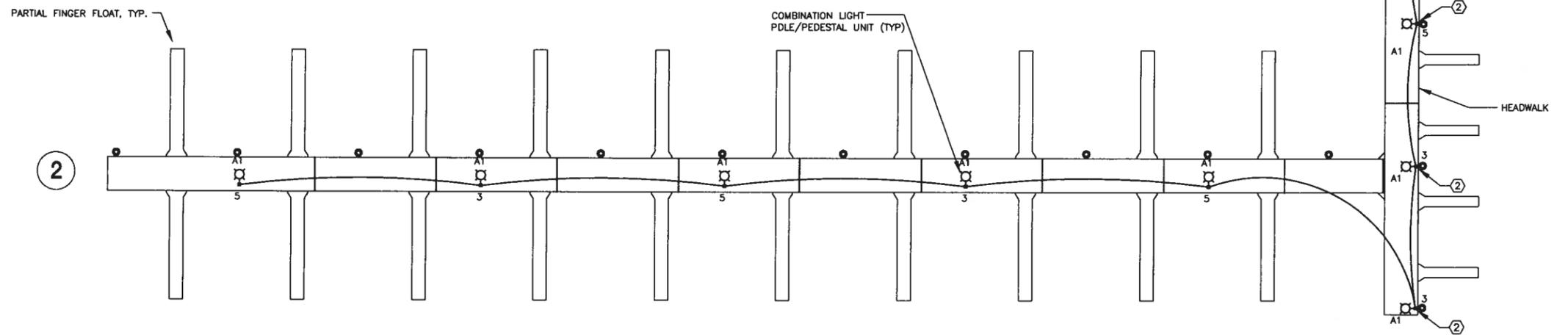
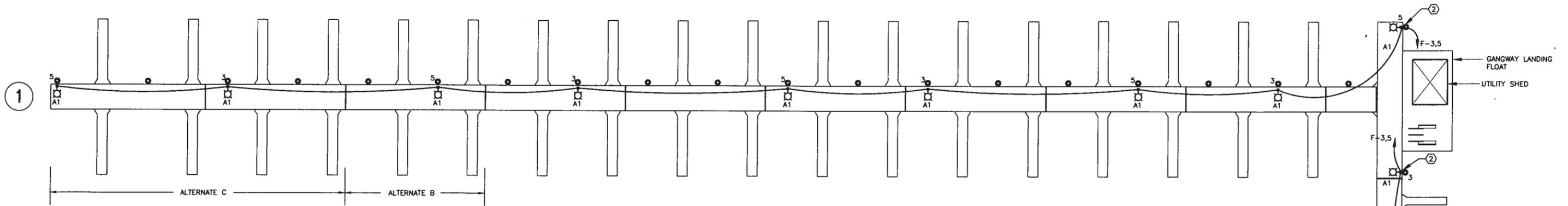
**PETERSBURG, ALASKA
MIDDLE HARBOR RENOVATION**

SHEET TITLE: **POWER PLAN
MAINWALK 1**

PN&D PROJECT NO.: 042011.02 | DWG. FILE: 46e605.dwg

6.05
SHEET
E5 OF 14

DESIGN: MAS CHECKED: BCH SCALE: SCALE IN FEET
DRAWN: PEL APPROVED: BCH 0 8 16 FT.



- NOTES:
- 1. REFER TO CIVIL DRAWINGS FOR EXACT LIGHT POLE LOCATIONS.
 - ② INSTALL LIGHT POLE WITHOUT PEDESTAL UNIT AT THIS LOCATION.

SCHEMATIC - FLOAT LIGHTING
ND SCALE

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A1	POLE MOUNTED HID CUTOFF w/ MARINE GRADE DIE-CAST ALUMINUM HOUSING, TYPE II DISTRIBUTION REFLECTOR, HEAT TEMPERED GLASS LENS, & POLYCARBONATE VANDAL GUARD.	LITHONIA AS1 70S SR2 120 SPA CR LPI DWH AS1VG	(1) 70W HPS 1900K, CRI 22	MOUNTING HEIGHT 12 FT INSTALL ANTI-PERCH STRIP DN LUMINAIRE
B	8.8" DIA SURFACE MOUNTED HID w/ DIE-CAST ALUMINUM HOUSING, GASKETED POLYCARBONATE LENS	RUUD CE1503-1-120-V	(1) 35W HPS 1900K, CRI 22	PROVIDE 4 EA. SPACED @ 24' ON CENTER. SURFACE MOUNT TO GANGWAY CANOPY.
C	4' SURFACE MOUNT HEAVY-DUTY FLUORESCENT INDUSTRIAL, w/ COLD ROLLED STEEL HOUSING, WIRE GUARD, END CAPS, 2 LAMP	LITHONIA AF 232 120 GEB10IS ACEP WGAPPV	(2) 32W T8 3500K, CRI 85	
POLE	12' x 4" SQUARE STEEL POLE, HOT-DIPPED GALVANIZED WITH HANDHOLE	GARMIRE GSQ412	--	PROVIDE MOUNTING BOLT HOLES PER LITHONIA "SPA" MOUNTING BRACKET.

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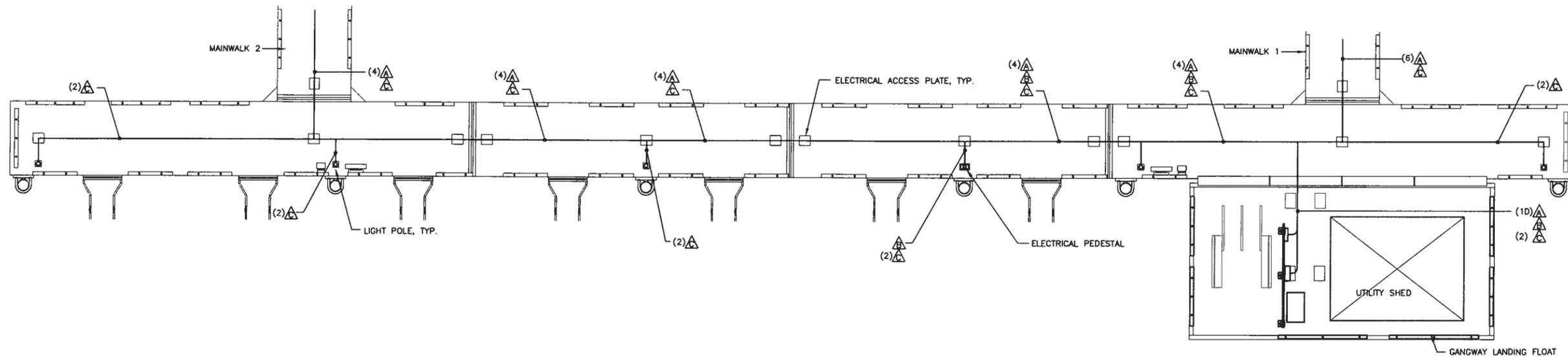
**PETERSBURG, ALASKA
MIDDLE HARBOR RENOVATION**

DESIGN: MAS CHECKED: BCH
DRAWN: PEL APPROVED: BCH
SCALE: SCALE IN FEET
0 20 40 FT.

SHEET TITLE:
**LIGHTING PLAN
HEADWALK/MAINWALK 1 & 2**
PHED PROJECT NO.: 042011.02 DWG. FILE: 46e606.dwg

6.06
SHEET
E6 OF 14

DATE: 4/8/05



NOTES:
 1. ACCESS PLATES AS PROVIDED MAY NOT BE ADEQUATE FOR INITIAL INSTALLATION OF ELECTRICAL CABLES. PORTIONS OF DECKING MAY NEED TO BE INSTALLED AFTER ELECTRICAL CABLES TO ACCOMMODATE INSTALLATION OF ELECTRICAL CABLES. FABRICATOR SHALL COORDINATE w/ GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR AS REQUIRED.

CABLING SCHEDULE		
LABEL	CABLE DESCRIPTION	NOTES
△	5C, NO. 2/D TYPE-W	PEDESTAL FEEDER
△	4C, NO. 8 TYPE-W	PEDESTAL FEEDER
△	4C, NO. 8 TYPE-W	LIGHTING

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**PETERSBURG, ALASKA
 MIDDLE HARBOR RENOVATION**

DESIGN: MAS CHECKED: BCH SCALE: SCALE IN FEET
 DRAWN: PEL APPROVED: BCH 0 8 16 FT.

SHEET TITLE: **CABLING PLAN HEADWALK**
 PND PROJECT NO. 042011.02 | DWG. FILE: 46e607.dwg

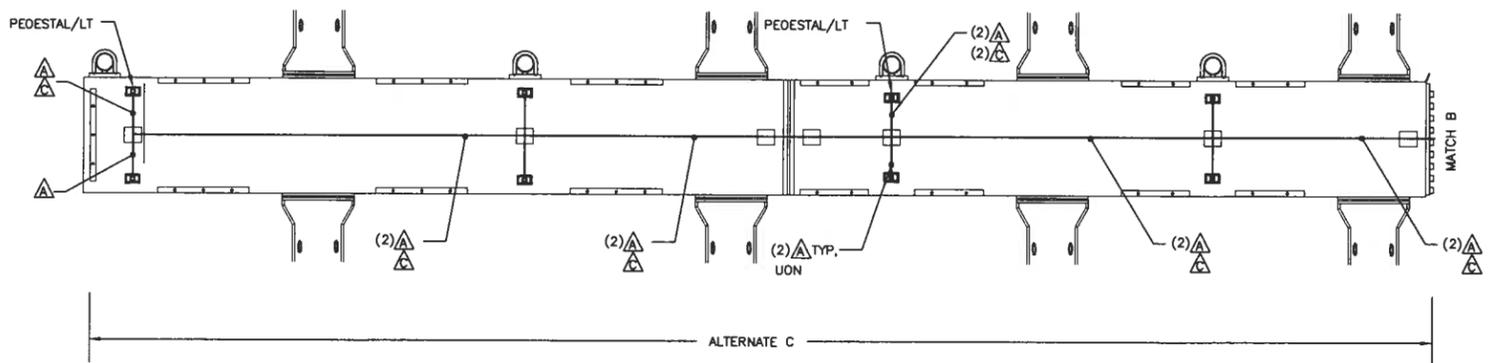
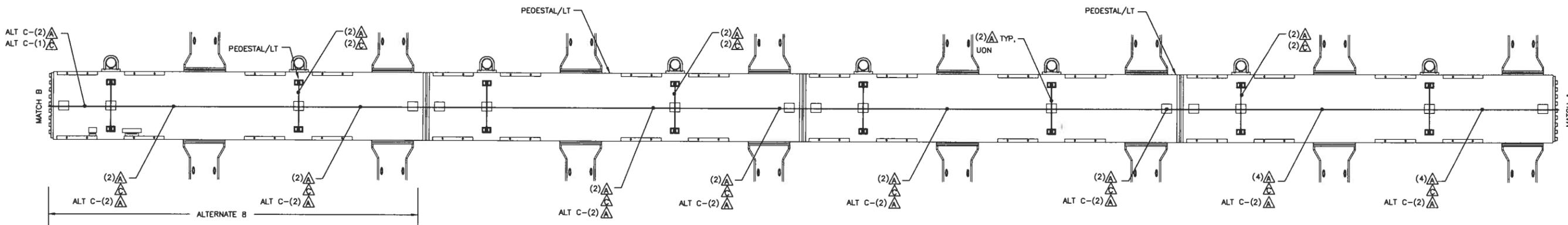
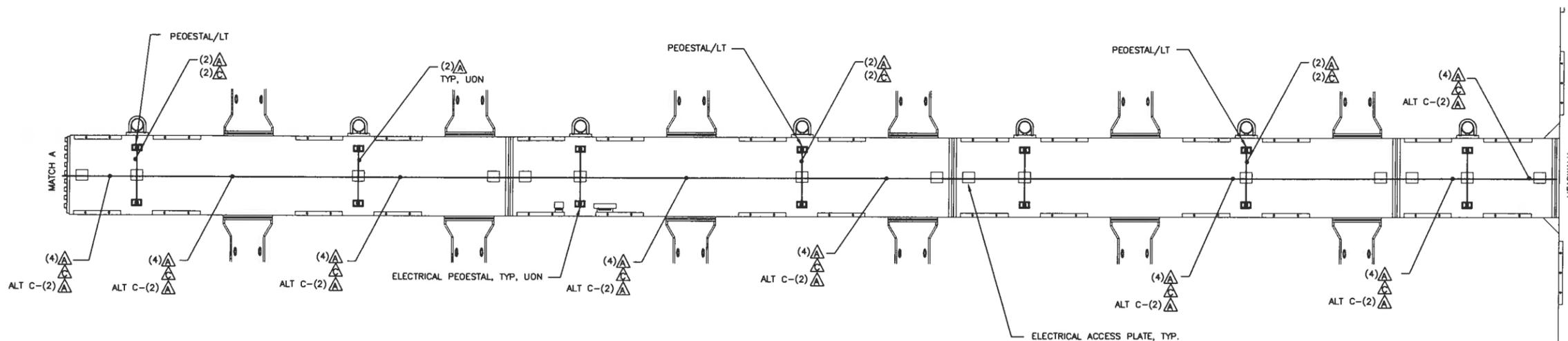
6.07
 SHEET
 E7 OF 14

CABLING SCHEDULE

LABEL	CABLE DESCRIPTION	NOTES
△	5C, NO. 2/0 TYPE-W	PEDESTAL FEEDER
△	4C, NO. 8 TYPE-W	PEDESTAL FEEDER
△	4C, NO. 8 TYPE-W	LIGHTING

NOTES:

1. ACCESS PLATES AS PROVIDED MAY NOT BE ADEQUATE FOR INITIAL INSTALLATION OF ELECTRICAL CABLES. PORTIONS OF DECKING MAY NEED TO BE INSTALLED AFTER ELECTRICAL CABLES TO ACCOMMODATE INSTALLATION OF ELECTRICAL CABLES. FABRICATOR SHALL COORDINATE w/ GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR AS REQUIRED.

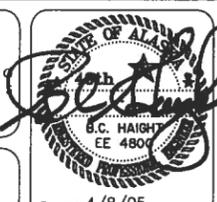


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MIDDLE HARBOR RENOVATION**

DESIGN: MAS CHECKED: BCH
DRAWN: PEL APPROVED: BCH



DATE: 4/8/05

SHEET TITLE:
**CABLING PLAN
MAINWALK 1**

PH&D PROJECT NO. 042011.02 DWG. FILE: 46e608.dwg

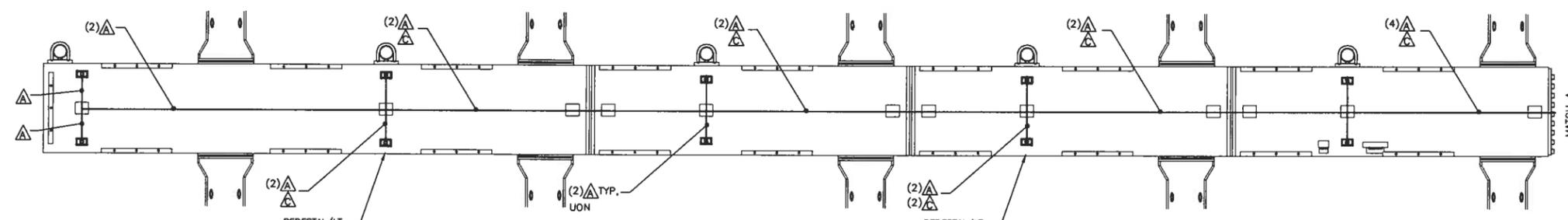
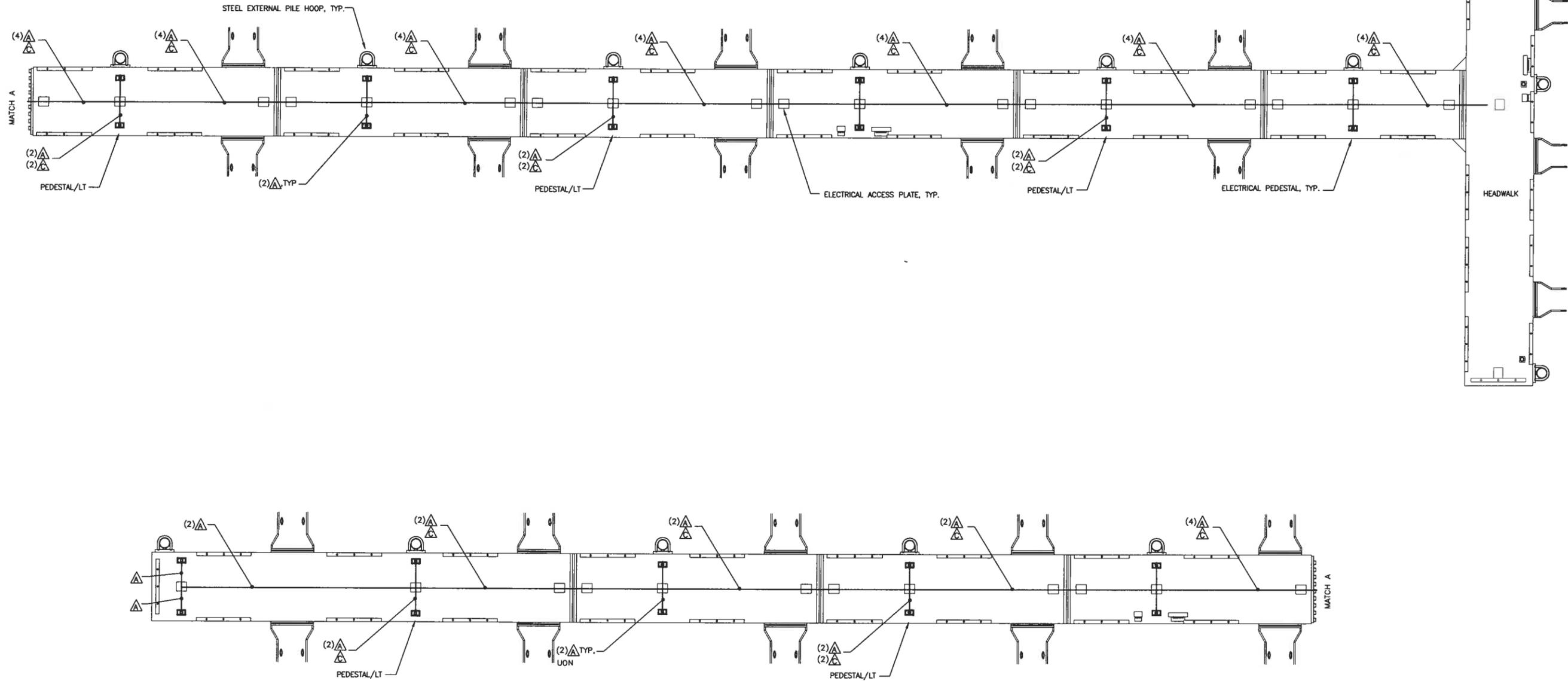
6.08
SHEET
EB OF 14

CABLING SCHEDULE

LABEL	CABLE DESCRIPTION	NOTES
△	5C, NO. 2/D TYPE-W	PEDESTAL FEEDER
△	4C, NO. 8 TYPE-W	PEDESTAL FEEDER
△	4C, NO. 8 TYPE-W	LIGHTING

NOTES:

- ACCESS PLATES AS PROVIDED MAY NOT BE ADEQUATE FOR INITIAL INSTALLATION OF ELECTRICAL CABLES. PORTIONS OF DECKING MAY NEED TO BE INSTALLED AFTER ELECTRICAL CABLES TO ACCOMMODATE INSTALLATION OF ELECTRICAL CABLES. FABRICATOR SHALL COORDINATE w/ GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR AS REQUIRED.



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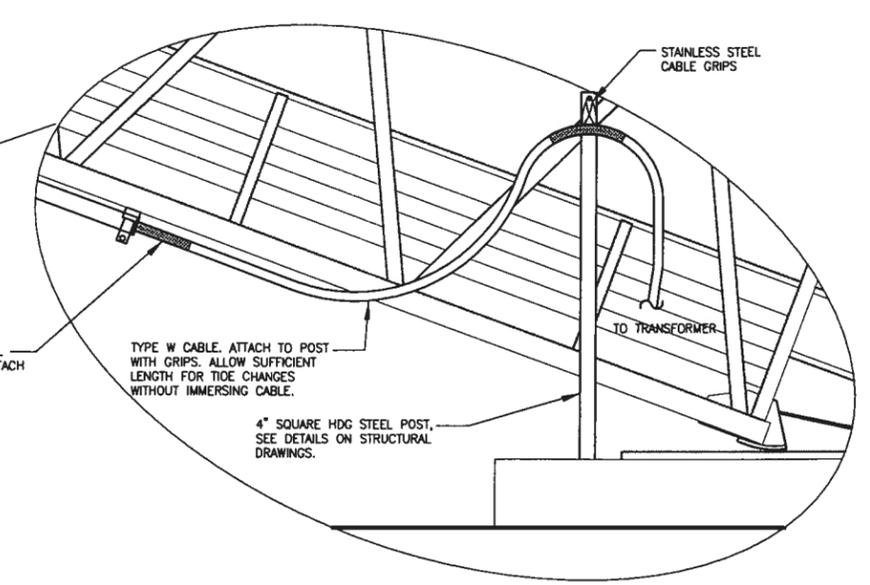
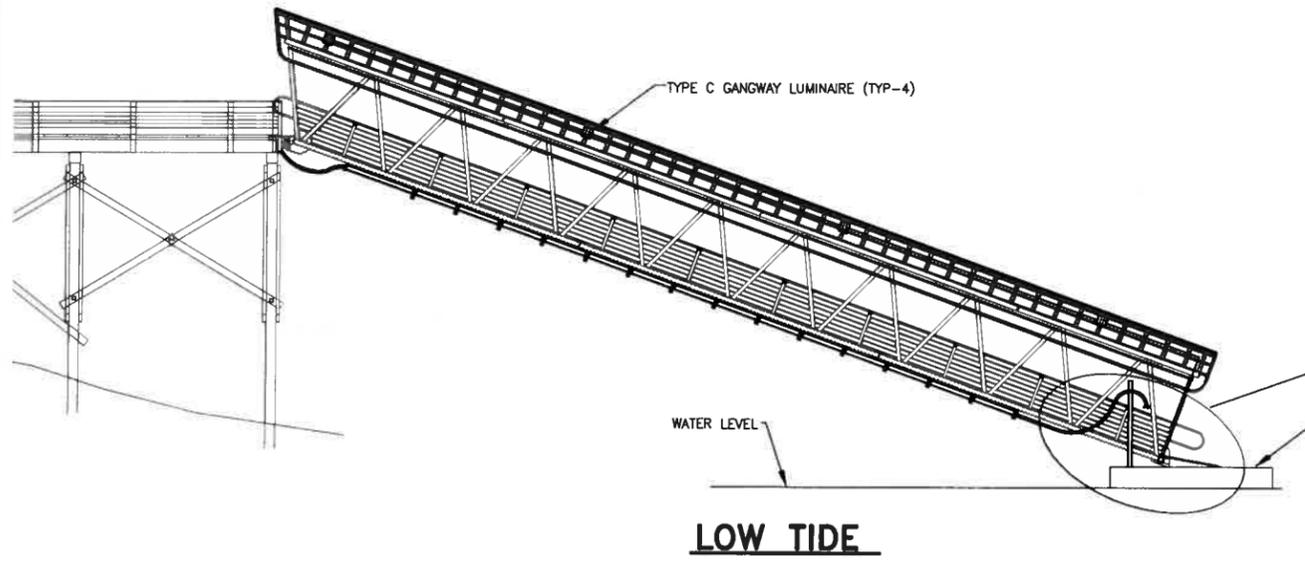
**PETERSBURG, ALASKA
MIDDLE HARBOR RENOVATION**

SHEET TITLE: **CABLING PLAN
MAINWALK 2**

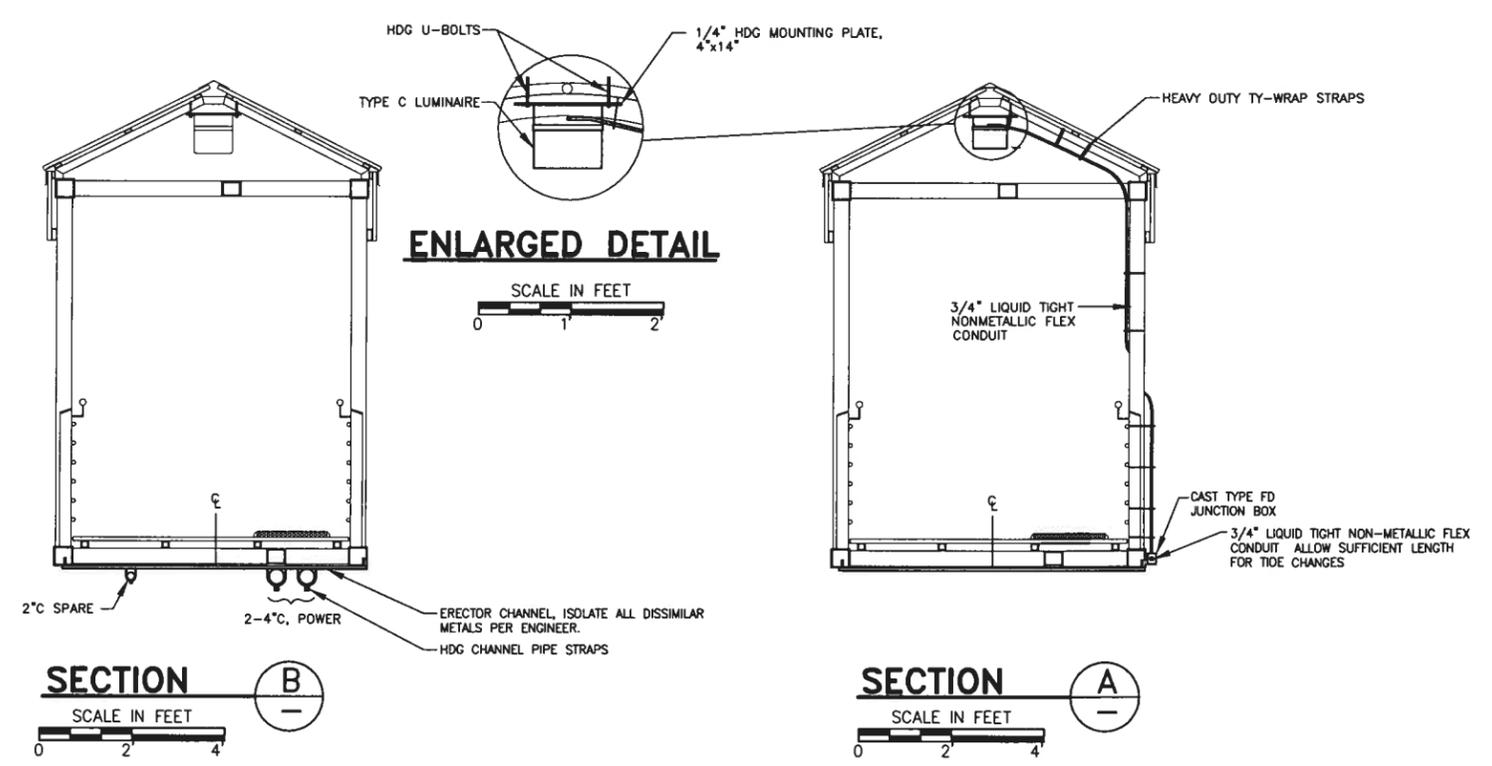
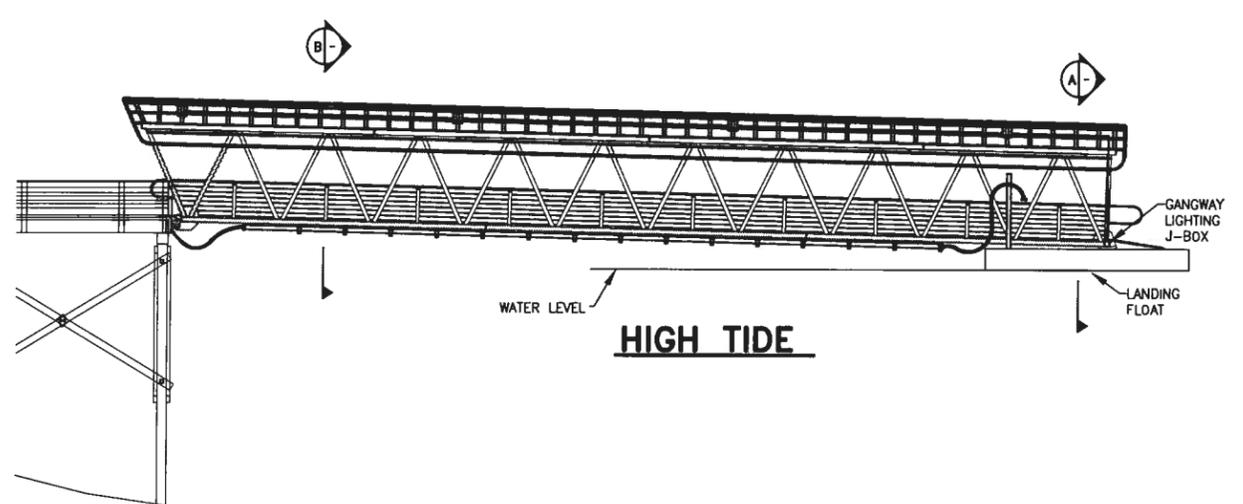
PH&D PROJECT NO. 042011.02 | DWG. FILE: 46e609.dwg

DESIGN: MAS CHECKED: BCH SCALE: SCALE IN FEET
DRAWN: PEL APPROVED: BCH 0 8 16 FT.

6.09
SHEET
E9 OF 14



ENLARGED DETAIL
SCALE IN FEET
0 2 4



ENLARGED DETAIL
SCALE IN FEET
0 1 2

SECTION A
SCALE IN FEET
0 2 4

SECTION B
SCALE IN FEET
0 2 4

- NOTE:**
1. SEE GANGWAY SECTION A-A FOR LUMINAIRE MOUNTING.
 2. SEE GANGWAY SECTION B-B FOR CONDUIT MOUNTING.
 3. LANDING FLOAT ELECTRICAL GEAR NOT SHOWN FOR CLARITY.

ELEVATION - GANGWAY
SCALE IN FEET
0 8 16

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DESIGN: MAS CHECKED: BCH SCALE: AS NOTED
DRAWN: PEL APPROVED: BCH

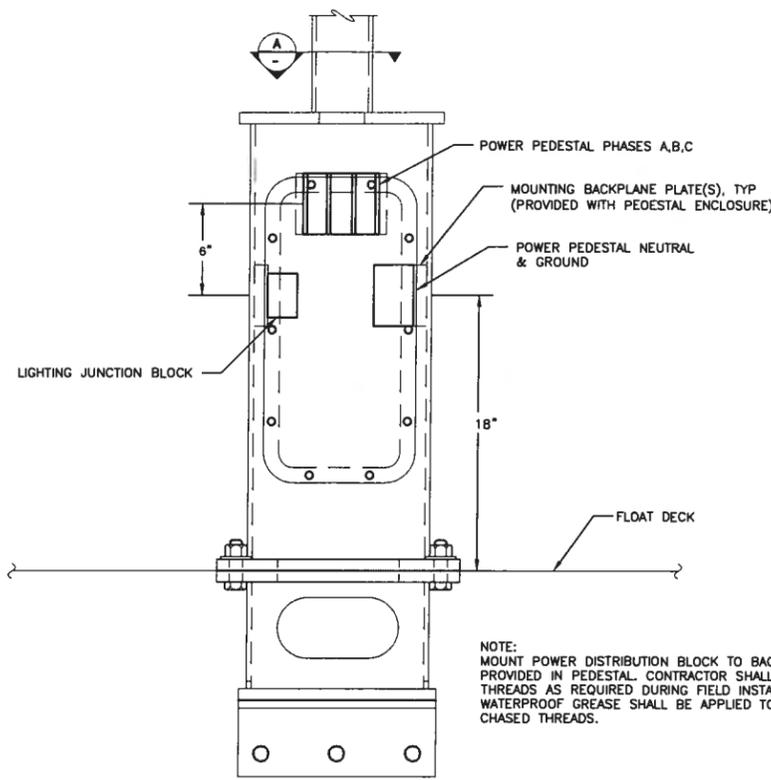
DATE: 4/8/05

**PETERSBURG, ALASKA
MIDDLE HARBOR RENOVATION**

SHEET TITLE:
**ELECTRICAL DETAILS
GANGWAY**

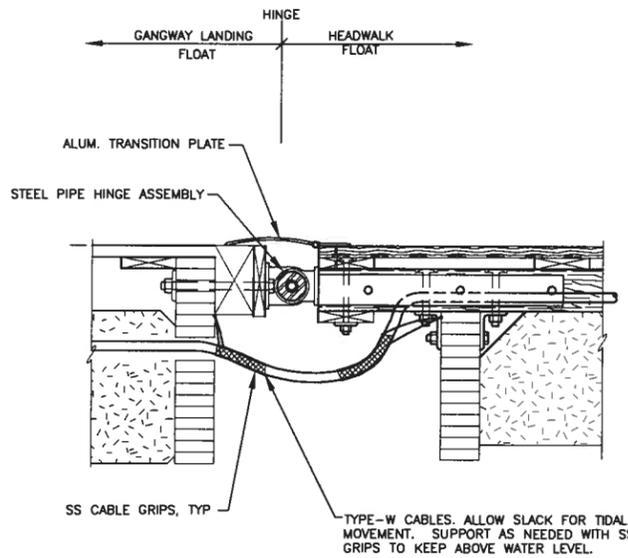
PH&D PROJECT NO.: 042011.02 | DWG. FILE: 46e610.dwg

6.10
SHEET
END OF 14

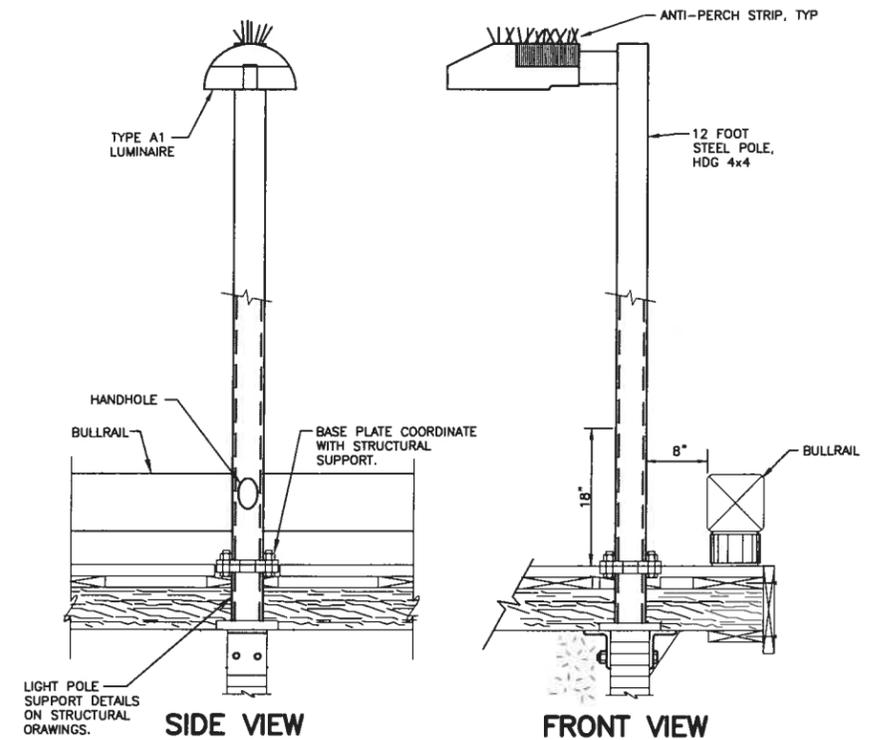


NOTE:
MOUNT POWER DISTRIBUTION BLOCK TO BACKPLANE PROVIDED IN PEDESTAL. CONTRACTOR SHALL CHASE THREADS AS REQUIRED DURING FIELD INSTALLATION. WATERPROOF GREASE SHALL BE APPLIED TO ALL CHASED THREADS.

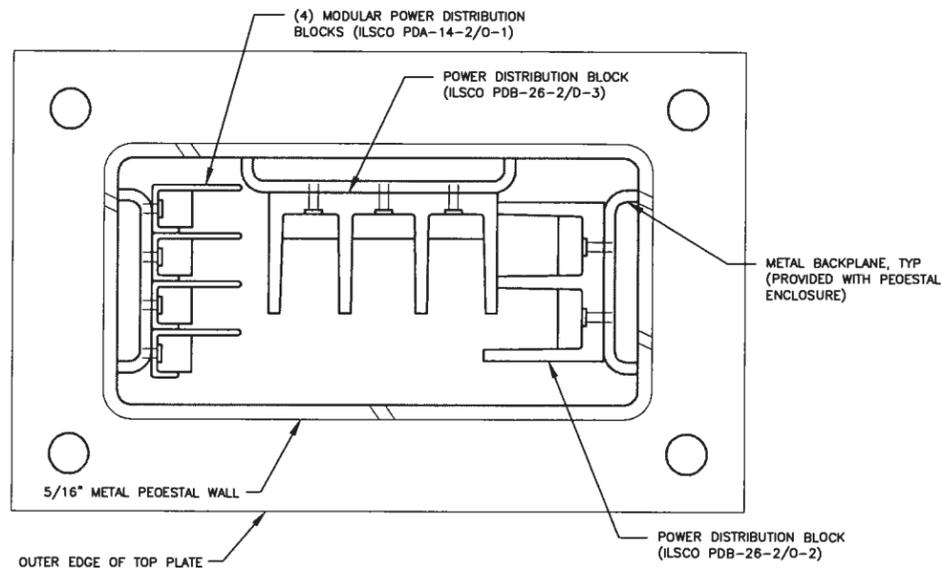
ELEVATION
SCALE: 2" = 1'



DETAIL - HEADWALK CABLE TRANSITION
NO SCALE



SIDE VIEW ELEVATION - LIGHT POLE
NO SCALE

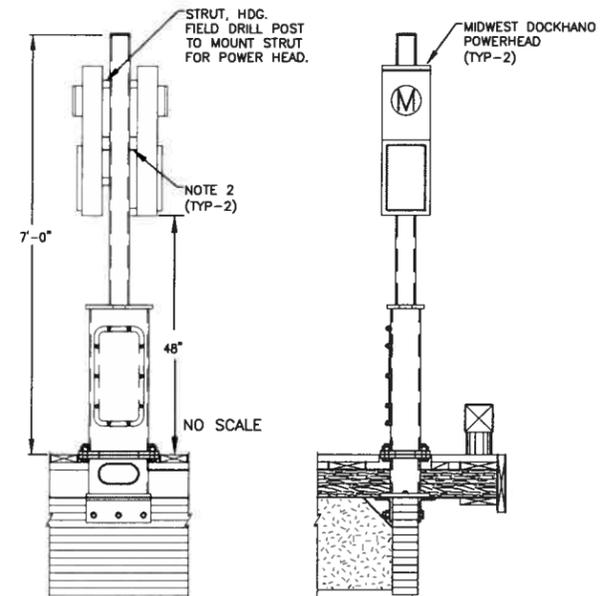


TOP VIEW

SCALE: 6" = 1'

NOTE:
FURNISH DRILLING PATTERN TO STEEL FABRICATOR FOR THE SUPPLIED POWER DISTRIBUTION BLOCKS.

DETAIL-PEDESTAL
SCALE: 2" = 1'



PEDESTAL BASE - ELEVATION
NO SCALE

NOTES:
1. PEDESTAL ONLY BASE IS ILLUSTRATED. A COMBINATION PEDESTAL AND LIGHT BASE WILL ALSO BE INSTALLED. SEE CIVIL DRAWINGS FOR DETAILS OF BOTH CONFIGURATIONS.
2. INSTALL FITTING BETWEEN POWER HEAD AND POST FOR ROUTING CONDUCTORS. FIELD DRILL POST.

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DESIGN: MAS CHECKED: BCH SCALE: AS NOTED
DRAWN: PEL APPROVED: BCH



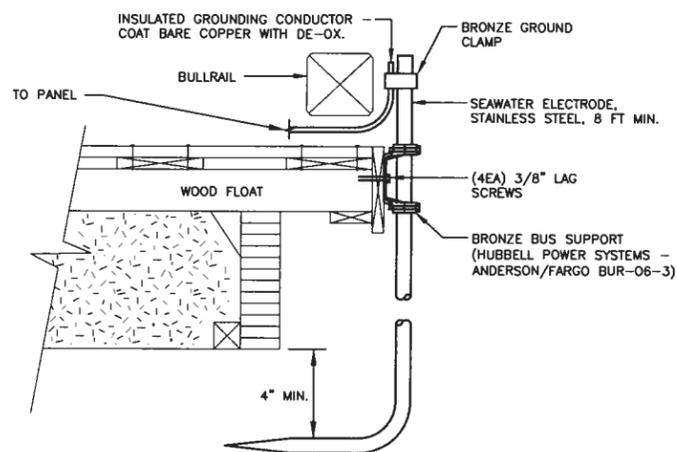
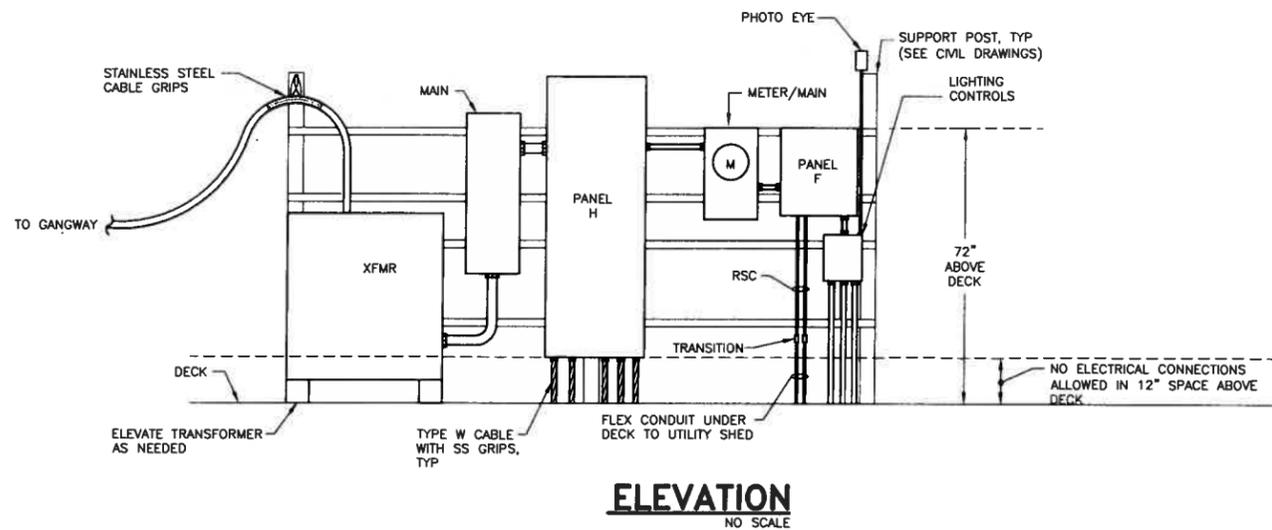
DATE: 4/8/05

**PETERSBURG, ALASKA
MIDDLE HARBOR RENOVATION**

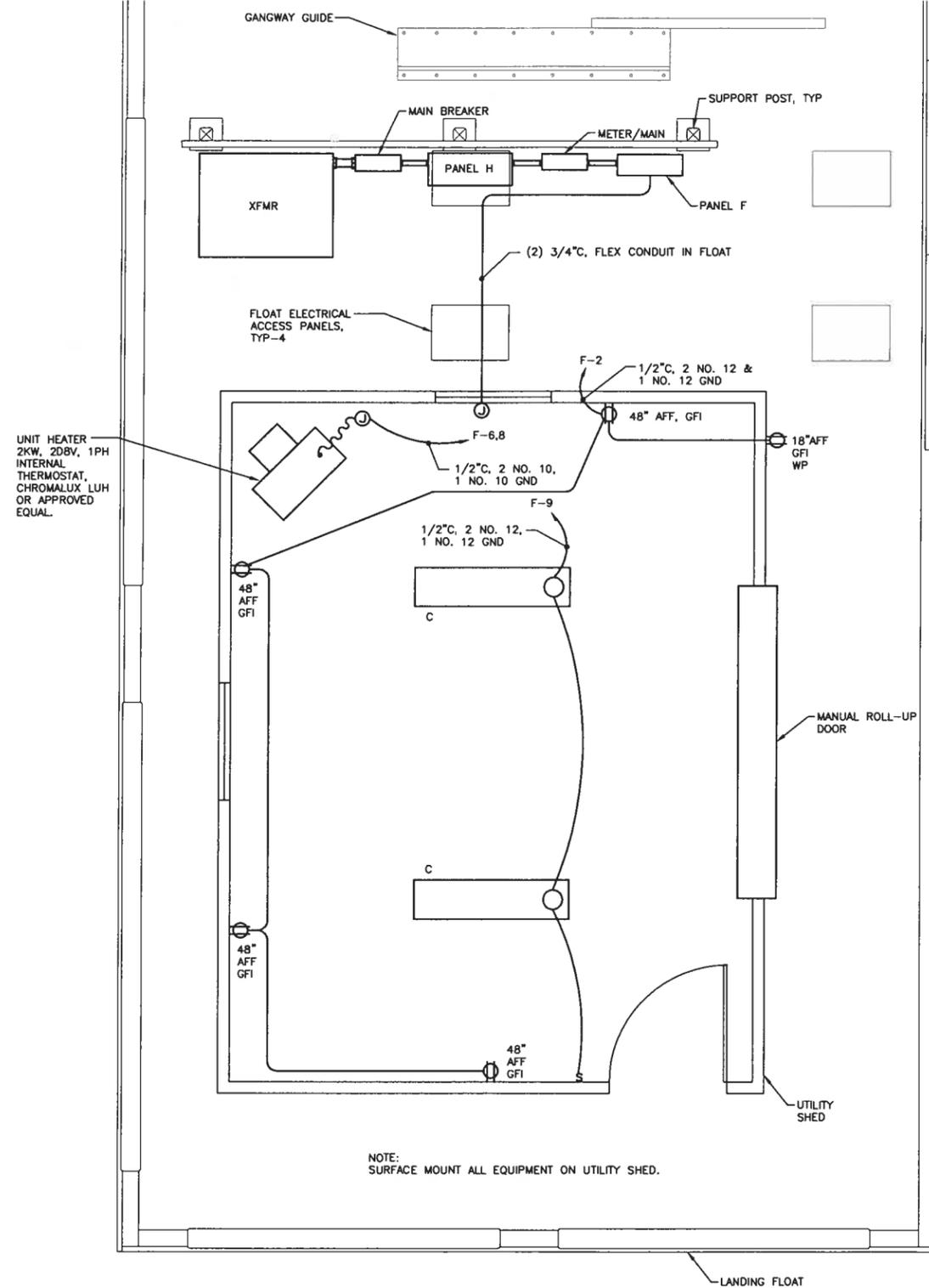
SHEET TITLE:
ELECTRICAL DETAILS

PND PROJECT NO. 042011.02 DWG. FILE: 46e611.dwg

6.11
SHEET
E11 OF 14



DETAIL - FLOAT MOUNTED SEAWATER ELECTRODE
NO SCALE

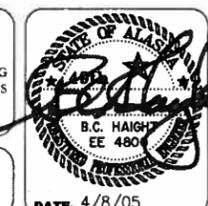


PLAN VIEW



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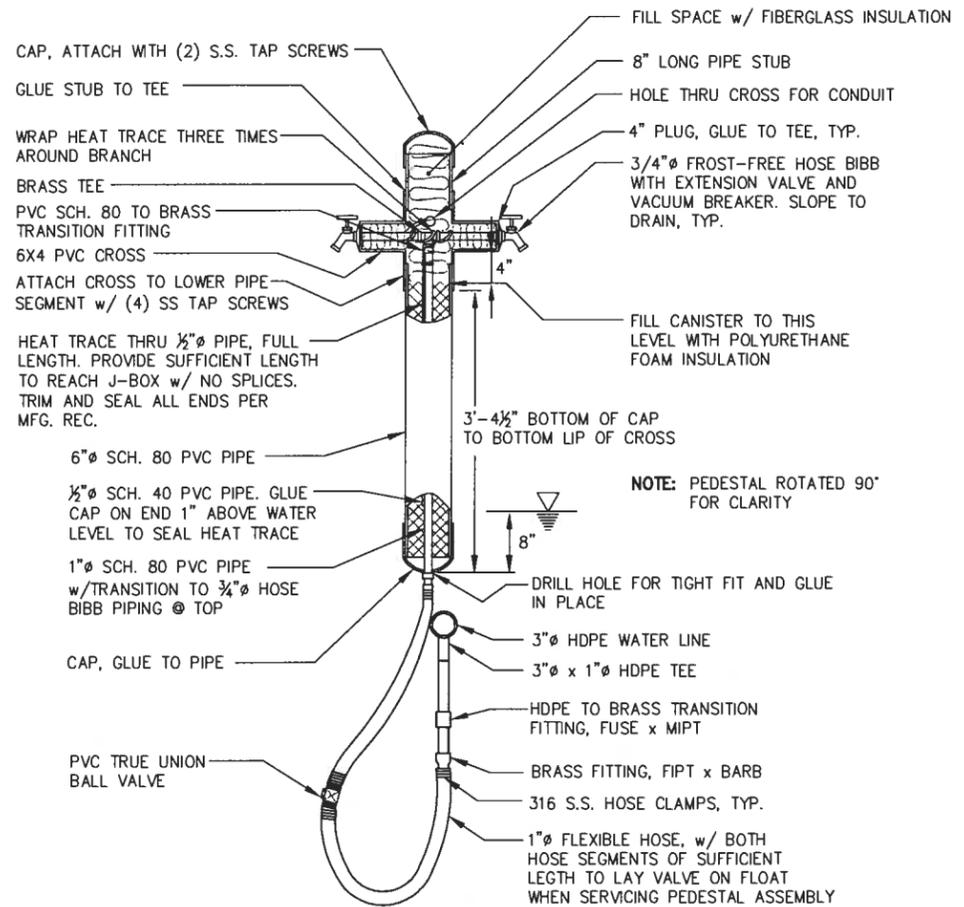
SHEET TITLE:
**ELECTRICAL DETAILS
LANDING FLOAT/UTILITY SHED**

SCALE:
0 1 2 4 FT.

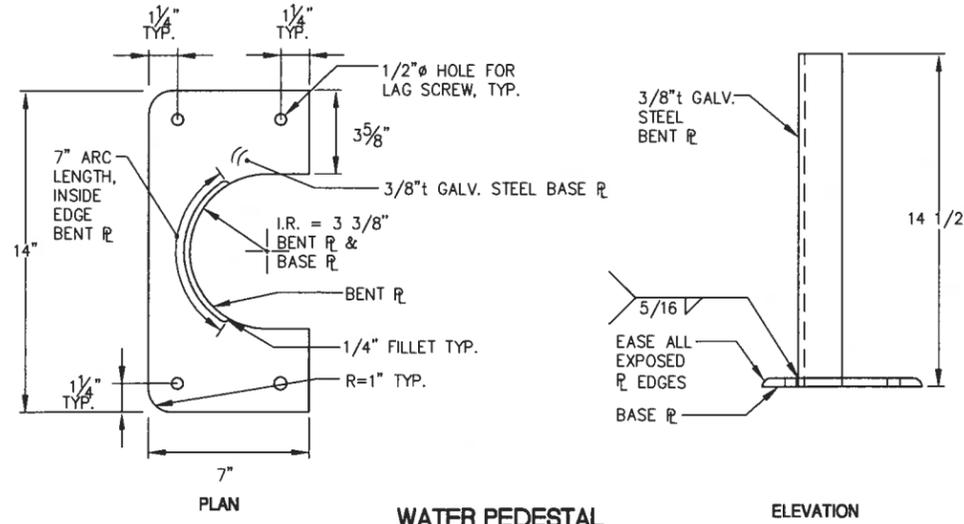
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DRAWN: PEL APPROVED: BCH

6.12
SHEET
E12 OF 14

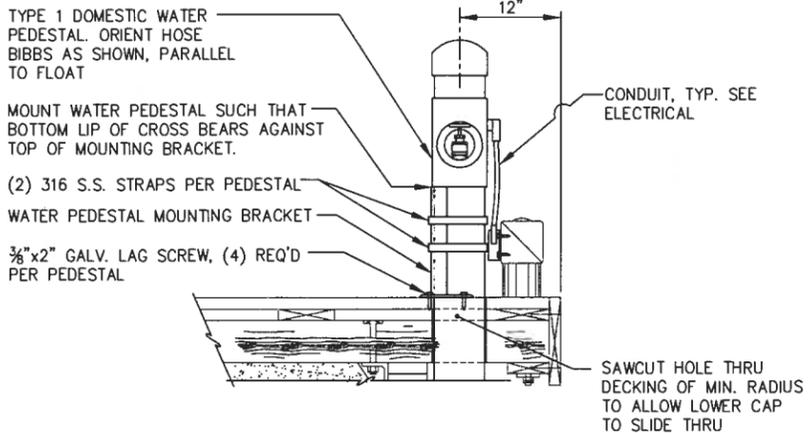
PND PROJECT NO. 042011.02 | DWG. FILE: 46e612.dwg



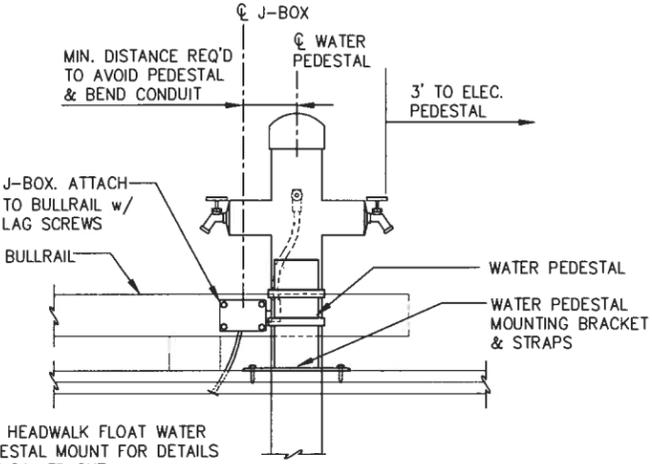
WATER SERVICE PEDESTAL



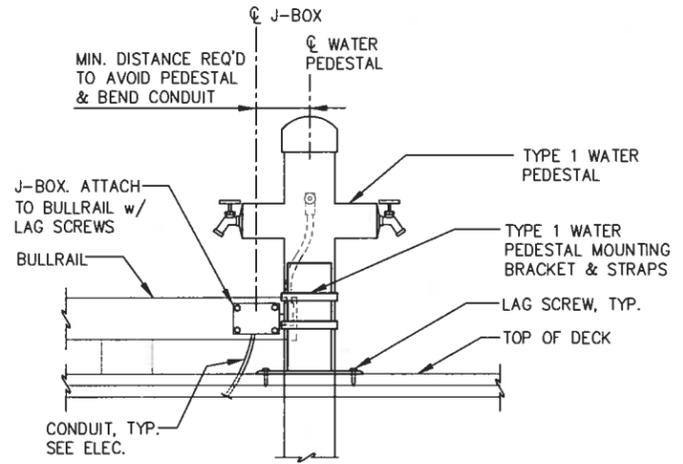
WATER PEDESTAL MOUNTING BRACKET



WATER PEDESTAL MOUNT - SIDE VIEW



MAINWALK FLOAT WATER PEDESTAL MOUNT - FRONT VIEW



HEADWALK FLOAT WATER PEDESTAL MOUNT - FRONT VIEW

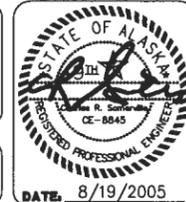
NOTE: FIELD TREAT ALL TIMBER DRILLED HOLES PER AWPA M-4

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DESIGN: AWS CHECKED: CRS SCALE: AS SHOWN
DRAWN: AWS APPROVED: CRS



PETERSBURG, ALASKA MIDDLE HARBOR RENOVATION DOMESTIC WATER SYSTEM

SHEET TITLE: **DOMESTIC WATER LINE DETAILS**

DATE: 8/19/2005

PHAD PROJECT NO.: 042011.02 DWG. FILE:

1.04
SHEET 4 OF 6

