

CITY OF DEPOE BAY

HARBOR DOCKS 2-4 REPLACEMENT



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

SHEET INDEX

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E2.00	ELECTRICAL PLAN
E3.00	ELECTRICAL PRODUCT INFORMATION & DETAILS

PROJECT INFORMATION

TIDAL DATA (NOAA TIDES & CURRENTS)	
MEAN HIGHER HIGH WATER (MHHW):	8.24'
MEAN HIGH WATER (MHW):	7.53'
MEAN TIDE LEVEL (MTL):	4.45'
MEAN LOW WATER (MLW):	1.37'
MEAN LOWER LOW WATER (MLLW):	0.00'

PROJECT DATA	
LATITUDE:	44° 48.5' N
LONGITUDE:	124° 3.5' W

100% REVIEW SUBMITTAL



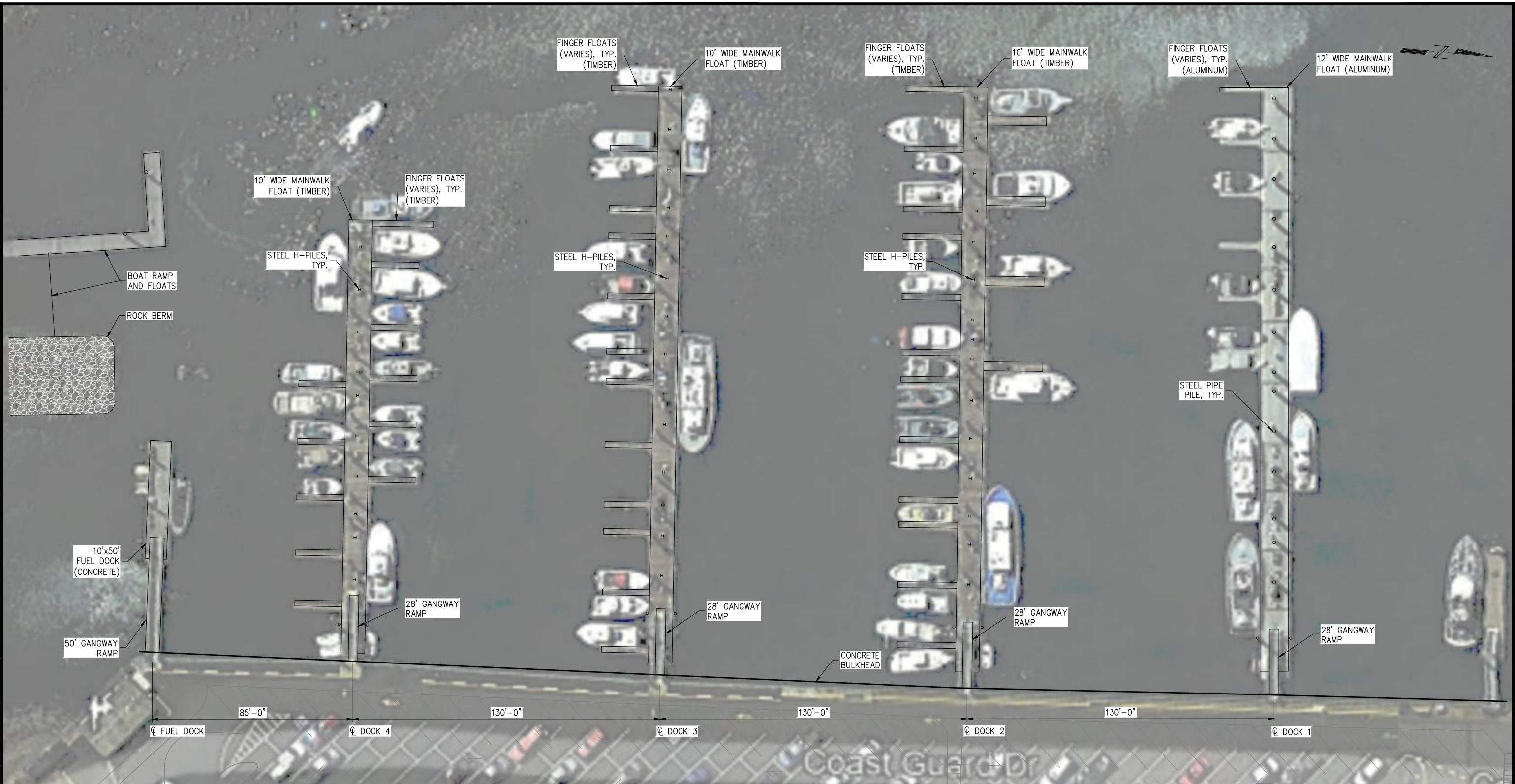
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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT		
TITLE: TITLE SHEET AND SHEET INDEX		
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO: T1.01
DRAWN BY: WL	DATE: OCTOBER 2022	
CHECKED BY: RJ	SCALE: NOTED	

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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: EXISTING CONDITIONS			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO: G1.01	
DRAWN BY: WL	DATE: OCTOBER 2022		
CHECKED BY: RJ	SCALE: NOTED		



TOTAL NUMBER OF H-PILES TO BE REMOVED (HP10): 39
TOTAL SQUARE FOOTAGE OF TIMBER FLOAT TO BE REMOVED: 9,525 FT²



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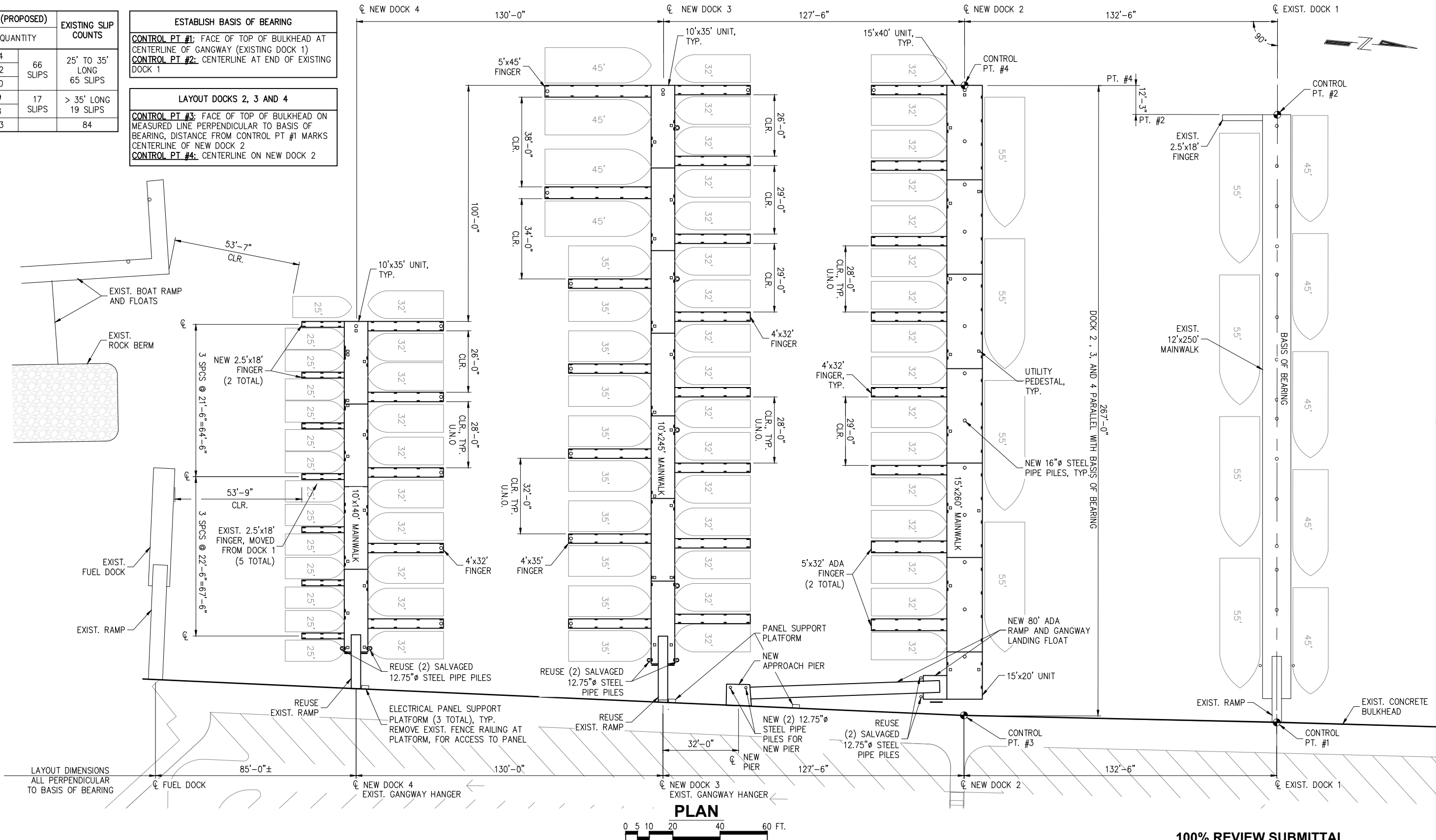
PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: DEMOLITION PLAN			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO: G2.01	
DRAWN BY: WL	DATE: OCTOBER 2022		
CHECKED BY: RJ	SCALE: NOTED		

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SLIP COUNT (PROPOSED)		EXISTING SLIP COUNTS
SLIP LENGTH	QUANTITY	
25'	14	66 SLIPS 25' TO 35' LONG 65 SLIPS
32'	42	
35'	10	
45'	9	17 SLIPS > 35' LONG 19 SLIPS
55'	8	
TOTAL	83	84

ESTABLISH BASIS OF BEARING
CONTROL PT. #1: FACE OF TOP OF BULKHEAD AT CENTERLINE OF GANGWAY (EXISTING DOCK 1)
CONTROL PT. #2: CENTERLINE AT END OF EXISTING DOCK 1
LAYOUT DOCKS 2, 3 AND 4
CONTROL PT. #3: FACE OF TOP OF BULKHEAD ON MEASURED LINE PERPENDICULAR TO BASIS OF BEARING, DISTANCE FROM CONTROL PT. #1 MARKS CENTERLINE OF NEW DOCK 2
CONTROL PT. #4: CENTERLINE ON NEW DOCK 2



PLAN

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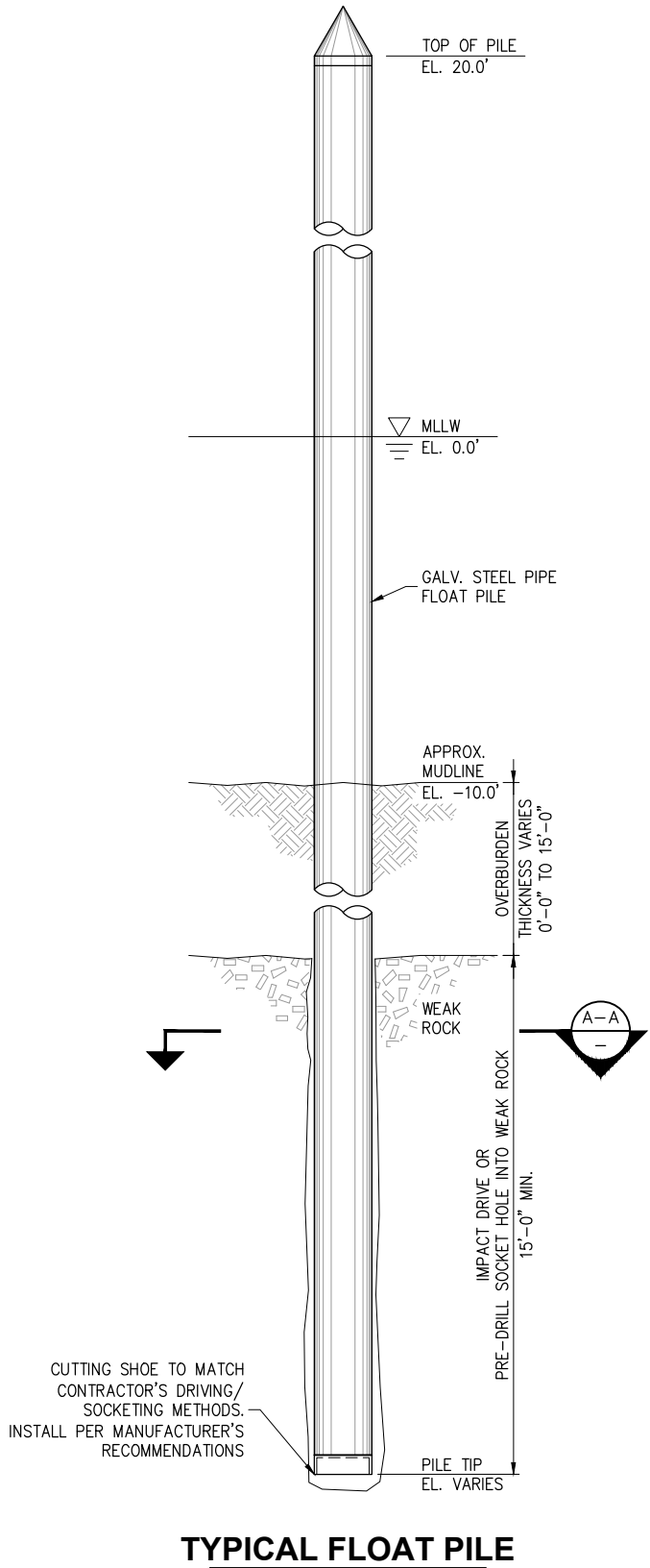
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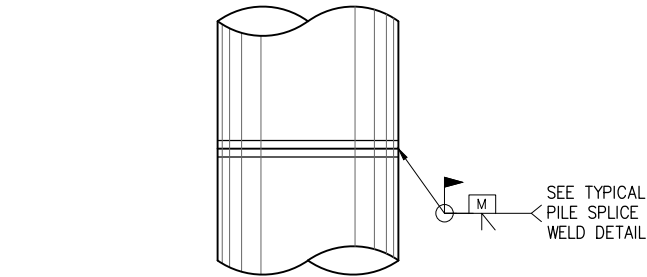
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REV	DATE	DESCRIPTION

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: PROPOSED NEW DOCK LAYOUT			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO: S1.01	
DRAWN BY: WL	DATE: OCTOBER 2022		
CHECKED BY: RJ	SCALE: NOTED		

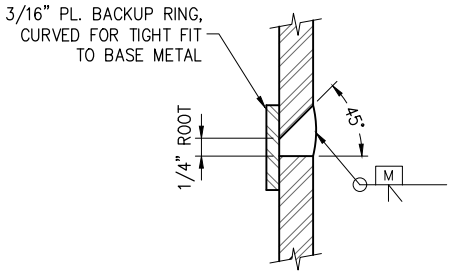
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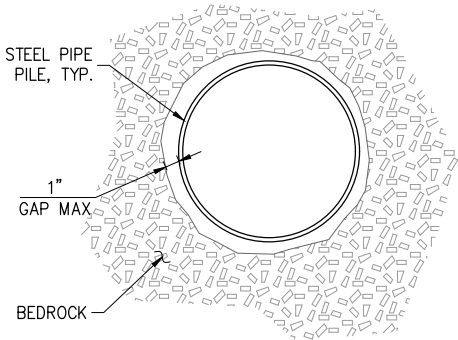
TYPICAL FLOAT PILE



PILE SPLICE
TYPICAL FOR ALL FIELD PIPE PILE SPLICES
(SHOP WELDS, IF REQ'D., SIMILAR)

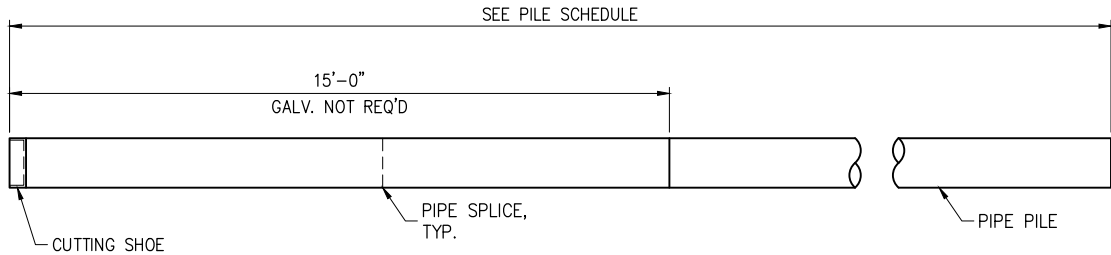


TYPICAL
PILE SPLICE WELD



SECTION
A-A

PILE SCHEDULE						
LOCATION	NEW/ EXIST.	DIAMETER	THICKNESS	QUANTITY	SUPPLY LENGTH	SERVICE COMPRESSION CAPACITY (kips)
DOCK 2	NEW	16"	0.50"	14 NEW	60'	10K
DOCK 2	EXIST.	12.75"	0.50"	2 REUSED	N/A	10K
DOCK 3	NEW	16"	0.50"	13 NEW	60'	10K
DOCK 3	EXIST.	12.75"	0.50"	2 REUSED	N/A	10K
DOCK 4	NEW	16"	0.50"	6 NEW	60'	10K
DOCK 4	EXIST.	12.75"	0.50"	2 REUSED	N/A	10K
PIER	NEW	12.75"	0.50"	2 NEW	40'	30K



STEEL PIPE PILE



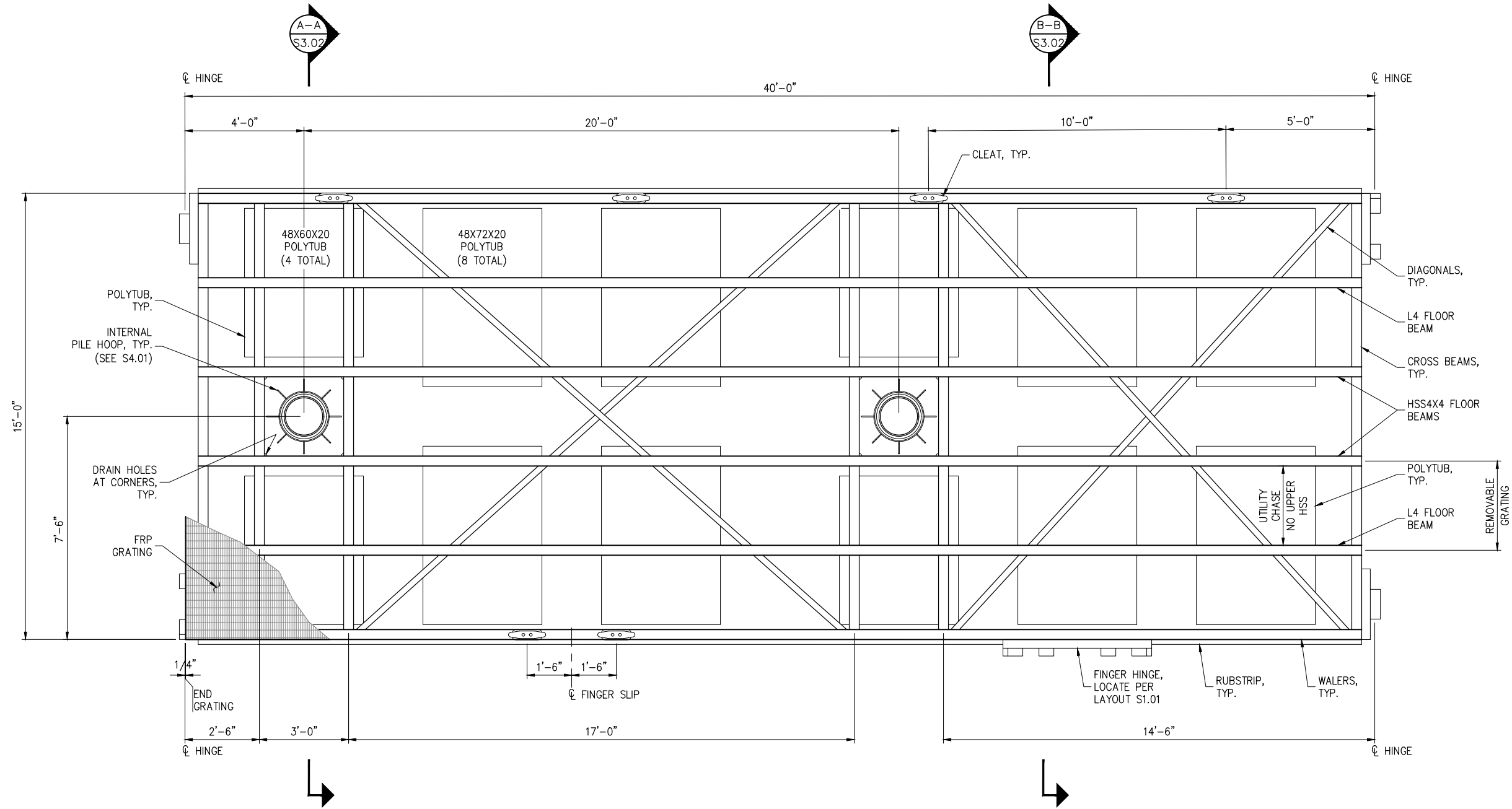
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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: PILE DETAILS AND PILE SCHEDULE			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO: S2.01	
DRAWN BY: WL	DATE: OCTOBER 2022		
CHECKED BY: RJ	SCALE: NOTED		

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15'x40' MAINWALK FLOAT
FRAMING PLAN



NOTE: DECK SUPPORTS AND
POLYTUB ANGLES NOT SHOWN.

WELD NOTES:

1. WELD ALL JOINTS WITH 5/16" FILLET, ALL AROUND, OR EQUIVALENT BEVEL, UNLESS OTHERWISE NOTED.
2. MAX VENT HOLES FOR GALVANIZING SHALL NOT EXCEED 1/2"Ø, ANY LARGER HOLES OR OPEN ENDS SHALL BE PLUGGED AND SEAL WELDED WITH END CAPS, AS APPROPRIATE.
3. REPAIR ALL COATINGS AS REQUIRED.



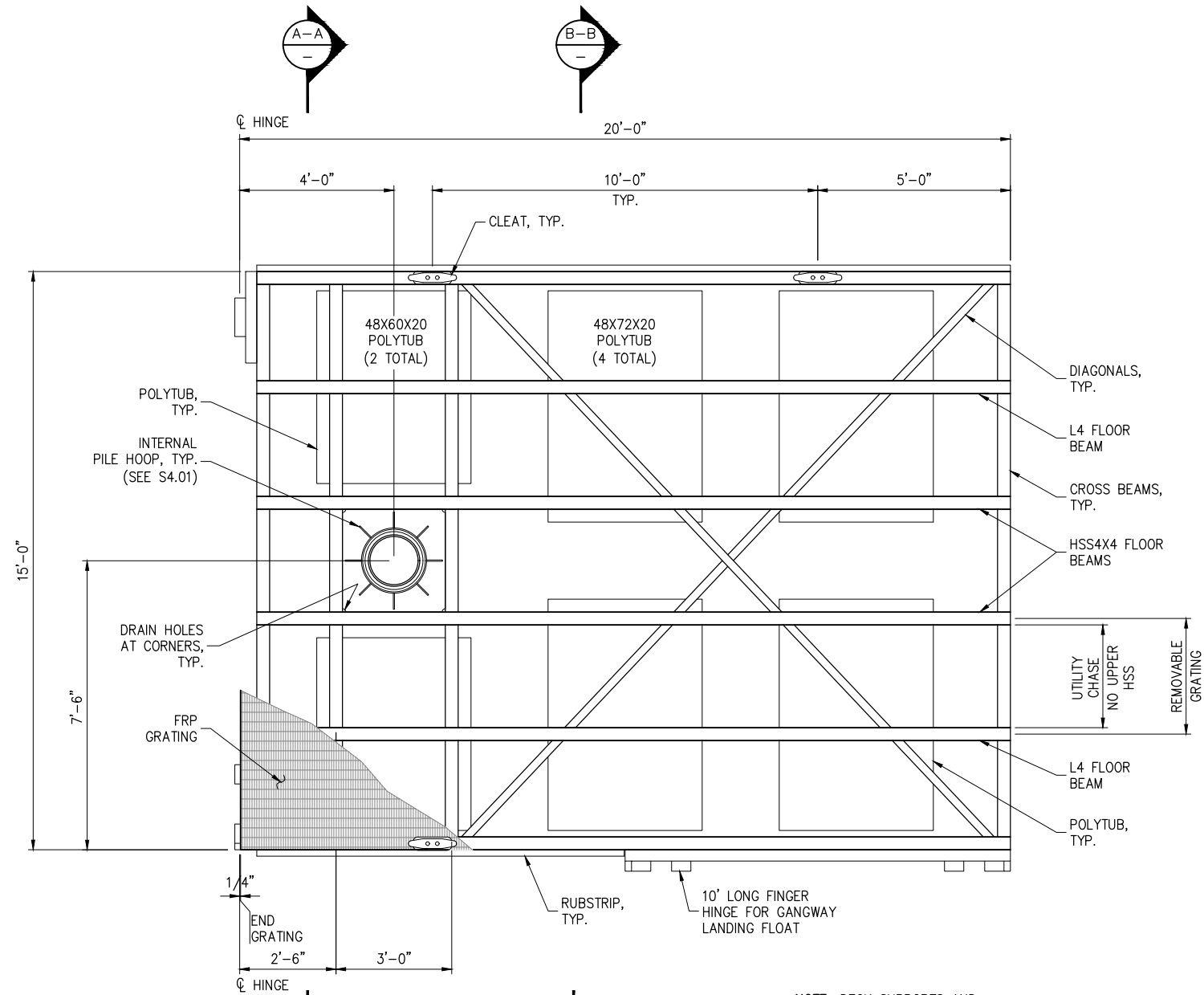
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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: 15'x40' MAINWALK FLOAT			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO: S3.01	
DRAWN BY: WL	DATE: OCTOBER 2022		
CHECKED BY: RJ	SCALE: NOTED		

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15'x20' MAINWALK FLOAT
FRAMING PLAN



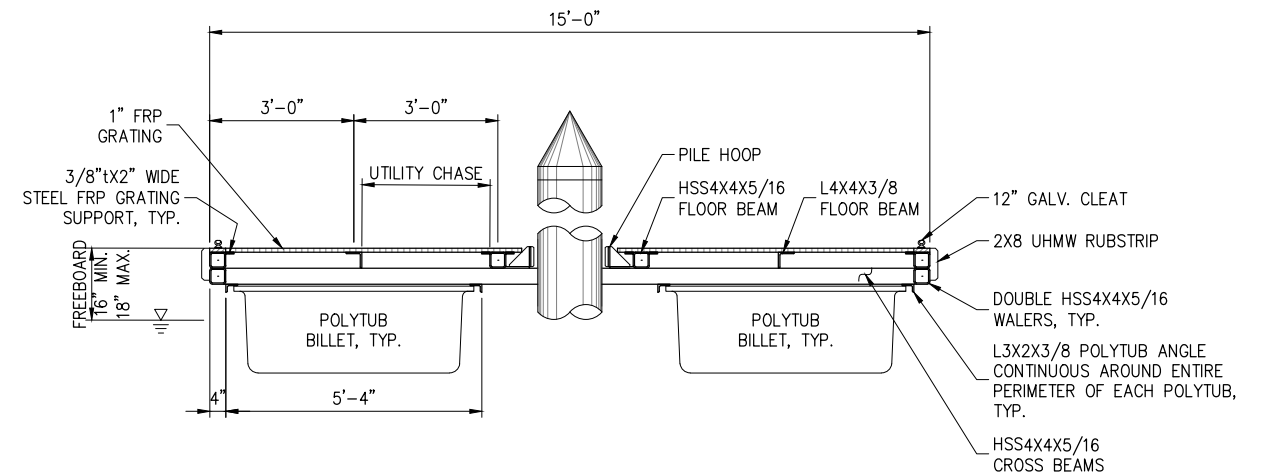
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3. REPAIR ALL COATINGS AS REQUIRED.

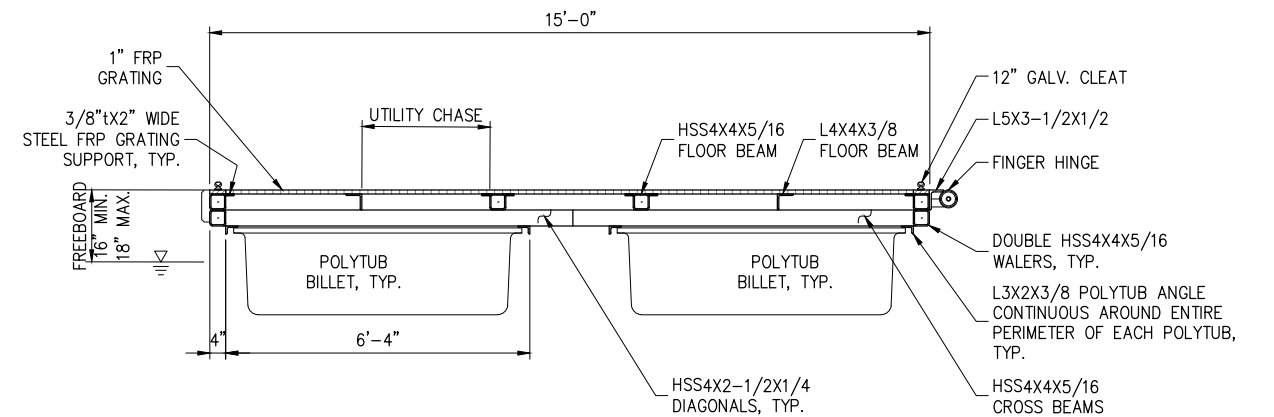


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SECTION VIEW
AT PILE



TYPICAL SECTION



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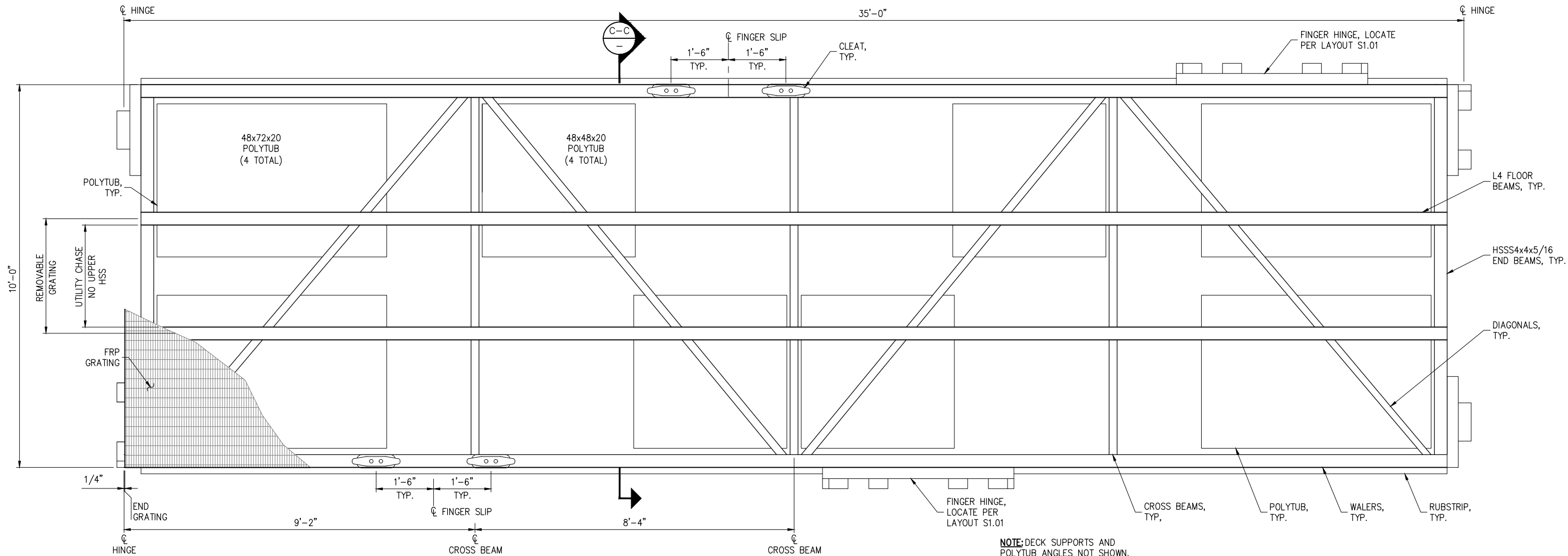
**DEPOE BAY HARBOR
DOCKS 2-4 REPLACEMENT**

15'x20' MAINWALK END FLOAT

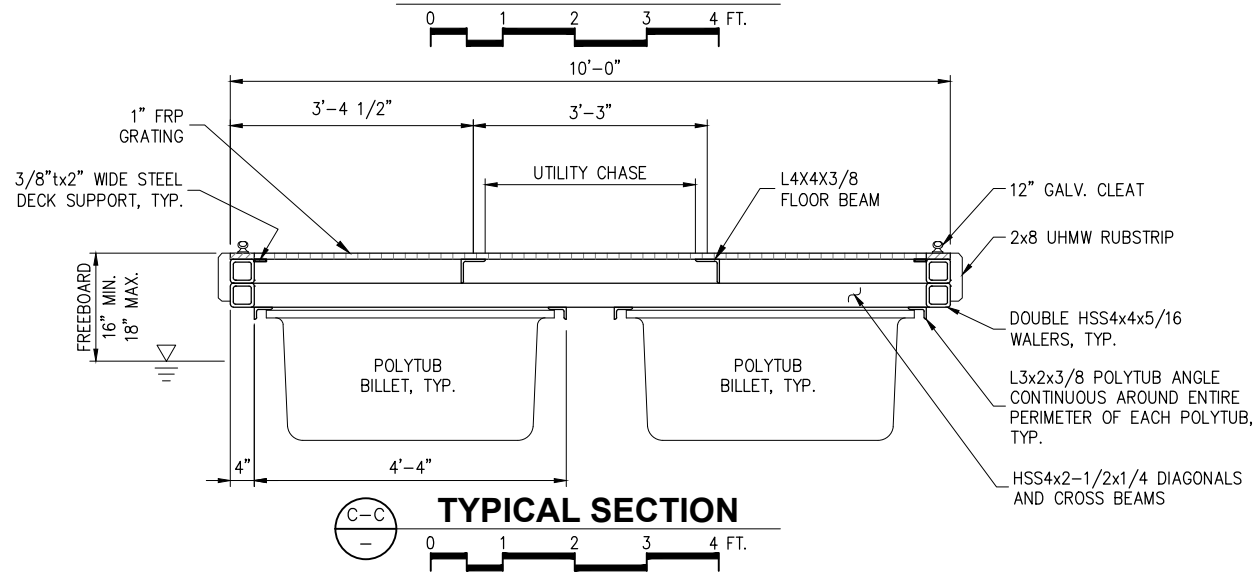
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DRAWN BY: WL DATE: OCTOBER 2022
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S3.02

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10'x35' MAINWALK FLOAT
FRAMING PLAN



TYPICAL SECTION

WELD NOTES:

1. WELD ALL JOINTS WITH 5/16" FILLET, ALL AROUND, OR EQUIVALENT BEVEL, UNLESS OTHERWISE NOTED.
2. MAX VENT HOLES FOR GALVANIZING SHALL NOT EXCEED 1/2"Ø, ANY LARGER HOLES OR OPEN ENDS SHALL BE PLUGGED AND SEAL WELDED WITH END CAPS, AS APPROPRIATE.
3. REPAIR ALL COATINGS AS REQUIRED.

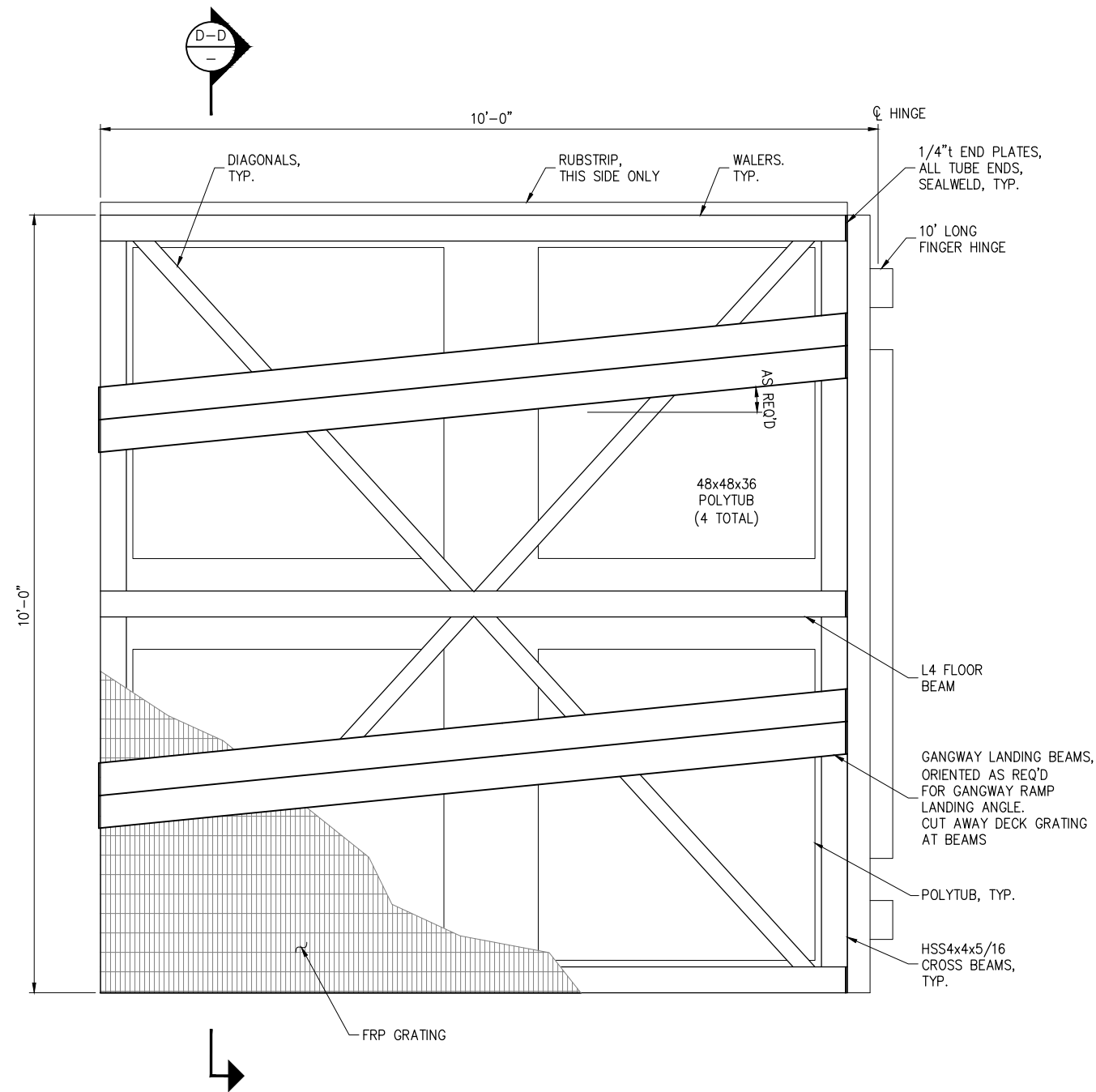


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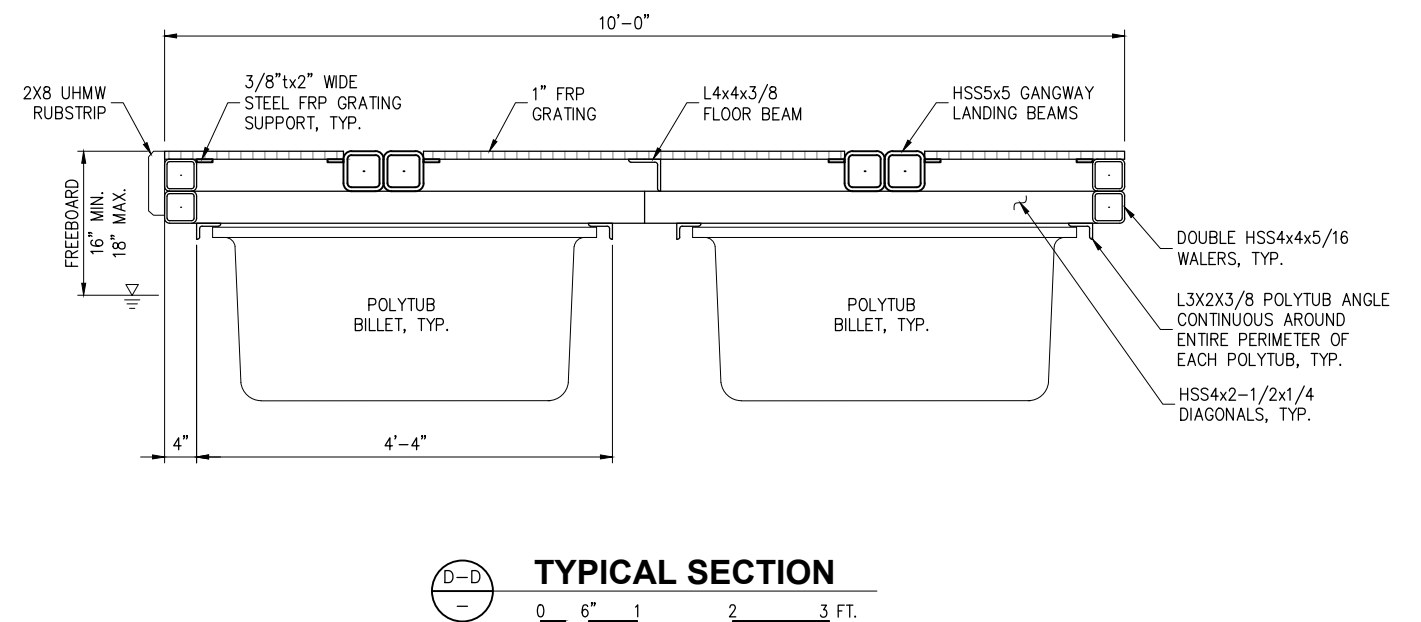
REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: 10'x35' MAINWALK FLOAT			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO: S3.03	
DRAWN BY: WL	DATE: OCTOBER 2022		
CHECKED BY: RJ	SCALE: NOTED		



NOTE: DECK SUPPORTS AND
POLYTUB ANGLES NOT SHOWN.

GANGWAY LANDING FLOAT FRAMING PLAN



TYPICAL SECTION



WELD NOTES:

1. WELD ALL JOINTS WITH 5/16" FILLET, ALL AROUND, OR EQUIVALENT BEVEL, UNLESS OTHERWISE NOTED.
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3. REPAIR ALL COATINGS AS REQUIRED.

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PROJECT:

**DEPOE BAY HARBOR
DOCKS 2-4 REPLACEMENT**

	TITLE:
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GANGWAY LANDING FLOAT

DESIGNED BY:

JO	PROJECT NO:	224017	S
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SHEET NO:

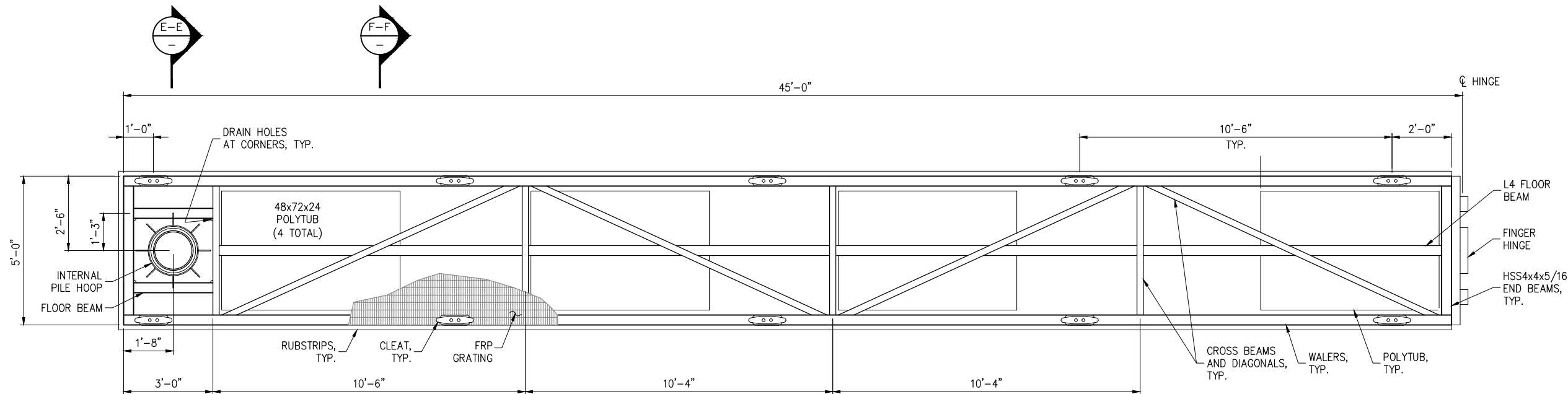
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WE	DATE:	OCTOBER 2022
RJ	SCALE:	NOTED

S3.04

REVISIONS		
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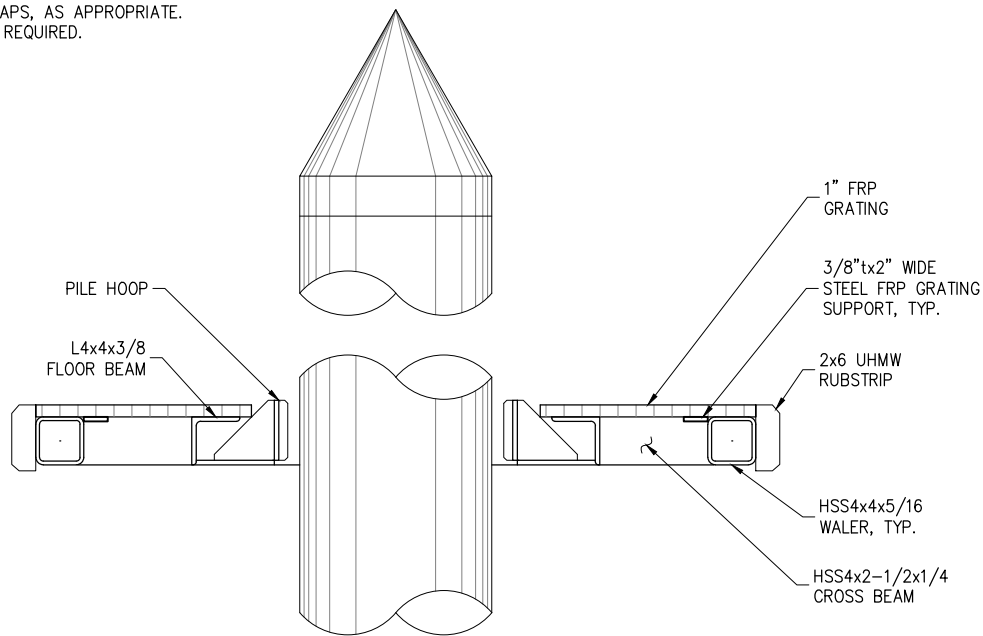


WELD NOTES:

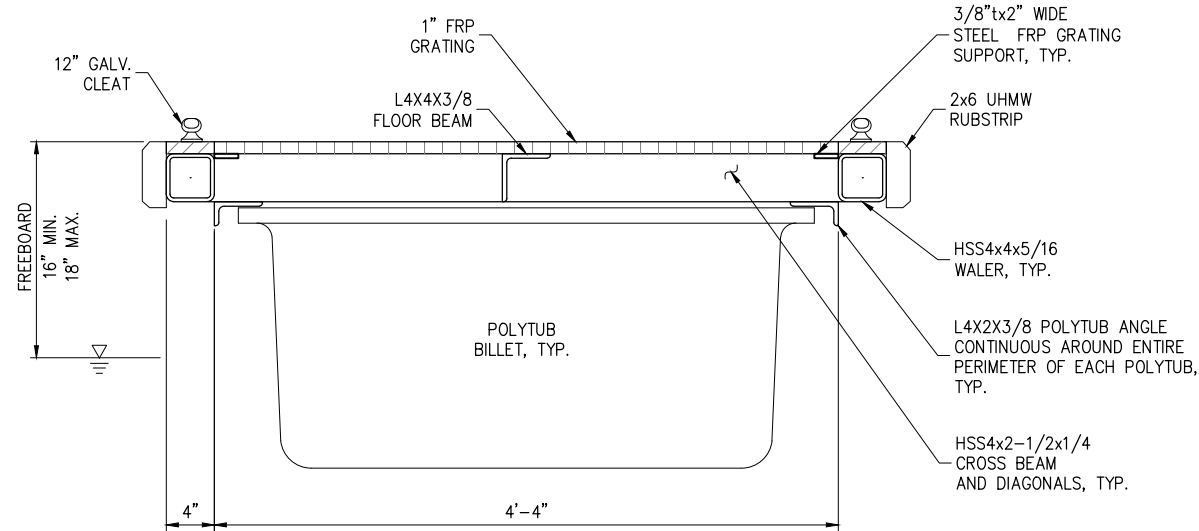
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3. REPAIR ALL COATINGS AS REQUIRED.

NOTE: DECK SUPPORTS AND POLYTUB ANGLES NOT SHOWN.

5'x45' FINGER FLOAT
FRAMING PLAN



SECTION VIEW AT PILE



TYPICAL SECTION

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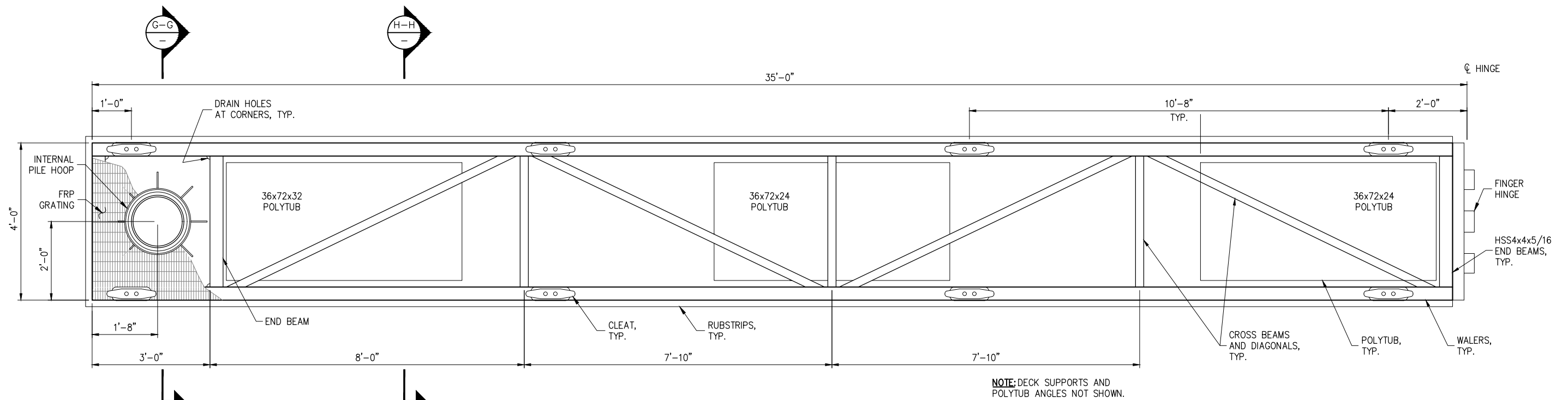
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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: 5'x45' FINGER FLOAT			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO: S3.05	
DRAWN BY: WL	DATE: OCTOBER 2022		
CHECKED BY: RJ	SCALE: NOTED		

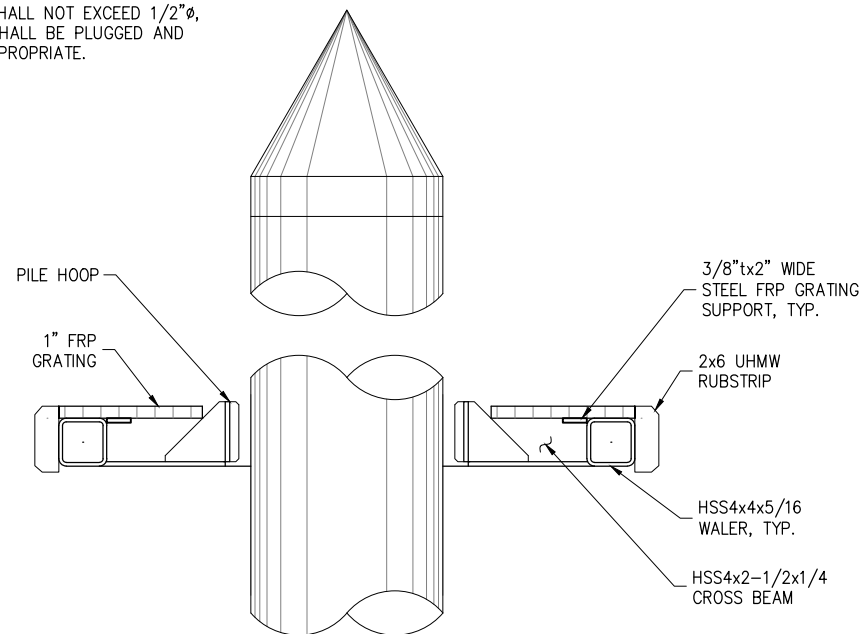
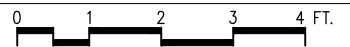
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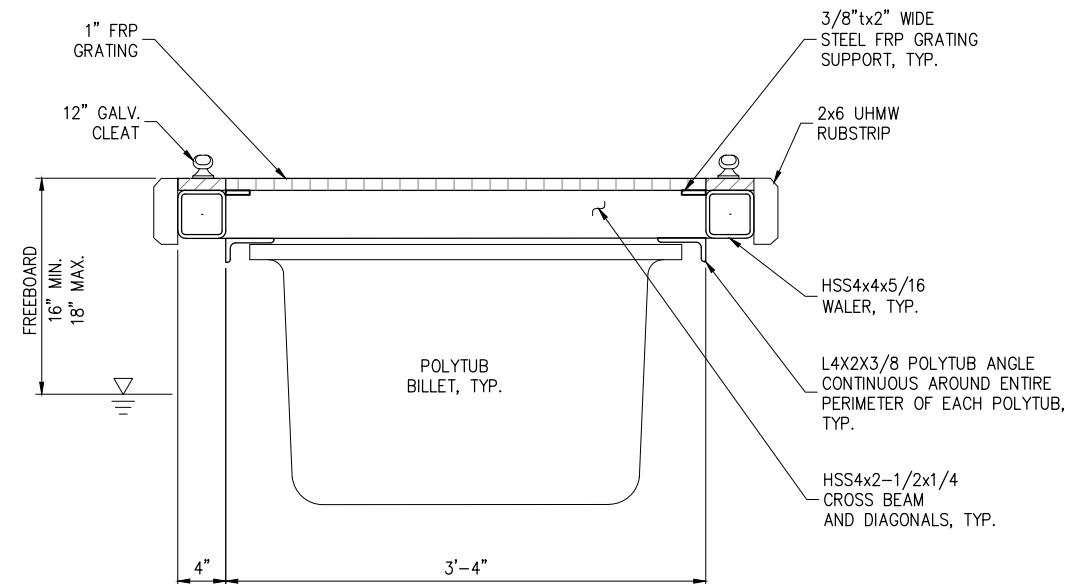
WELD NOTES:

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4'x35' FINGER FLOAT FRAMING PLAN



SECTION VIEW AT PILE



TYPICAL SECTION



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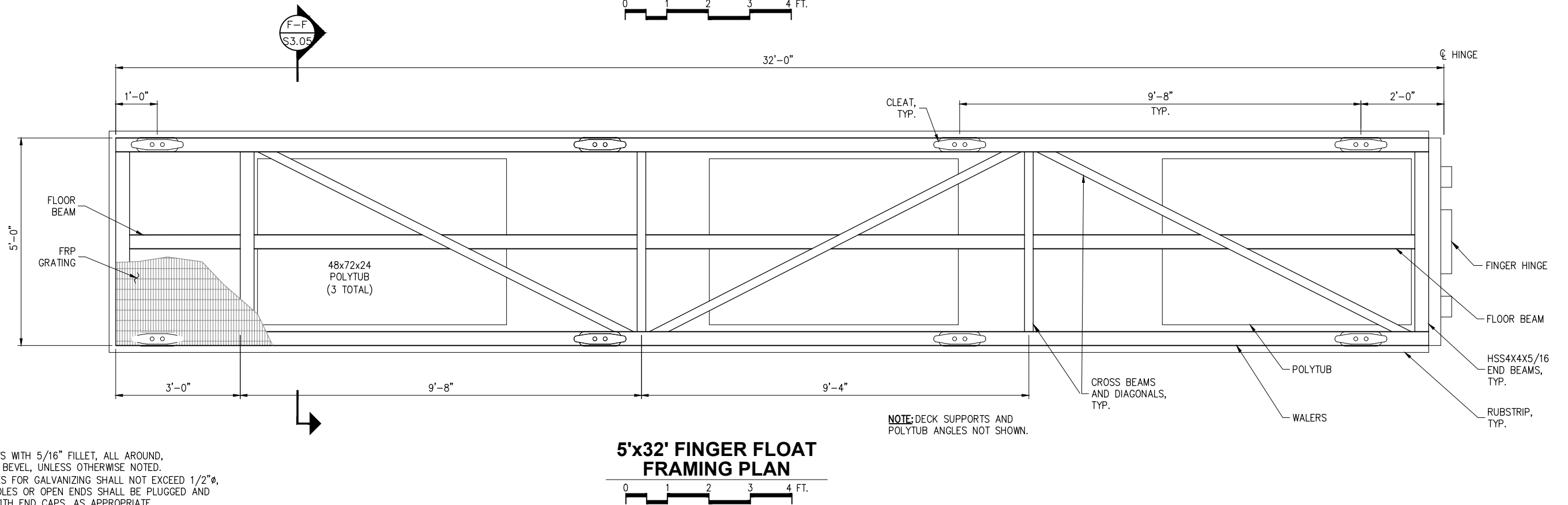
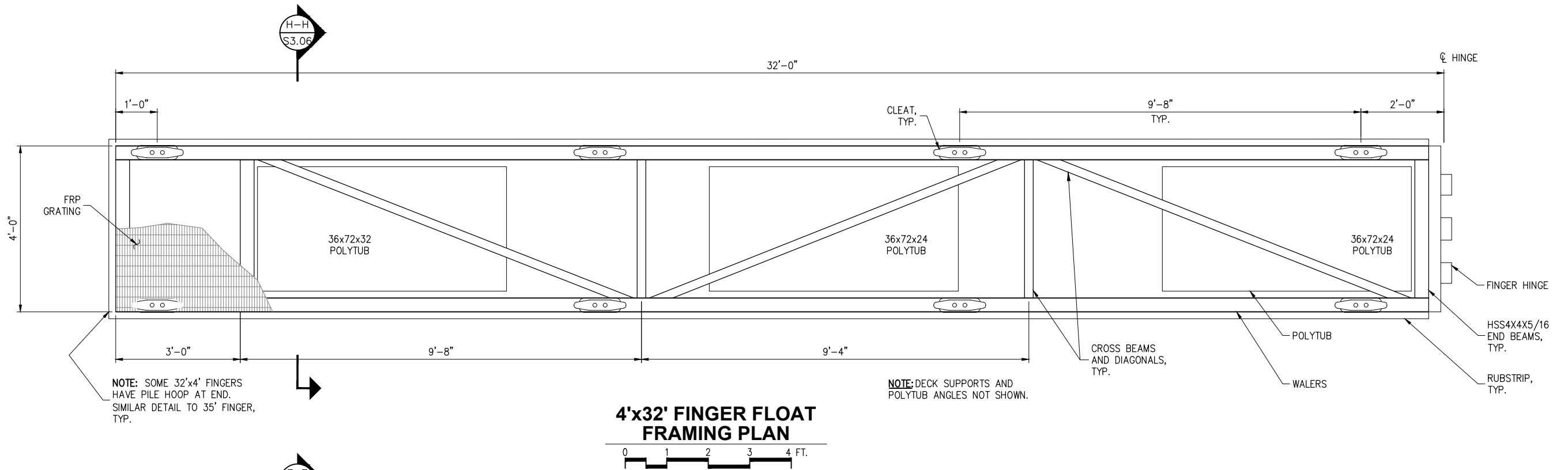
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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: 4'x35' FINGER FLOAT			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO: S3.06	
DRAWN BY: WL	DATE: OCTOBER 2022		
CHECKED BY: RJ	SCALE: NOTED		

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2. MAX VENT HOLES FOR GALVANIZING SHALL NOT EXCEED 1/2"Ø, ANY LARGER HOLES OR OPEN ENDS SHALL BE PLUGGED AND SEAL WELDED WITH END CAPS, AS APPROPRIATE.
3. REPAIR ALL COATINGS AS REQUIRED.



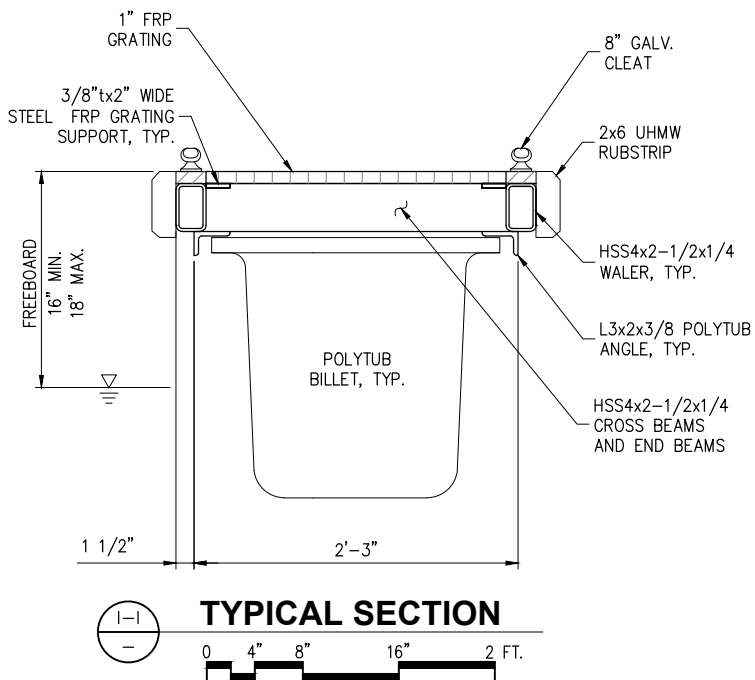
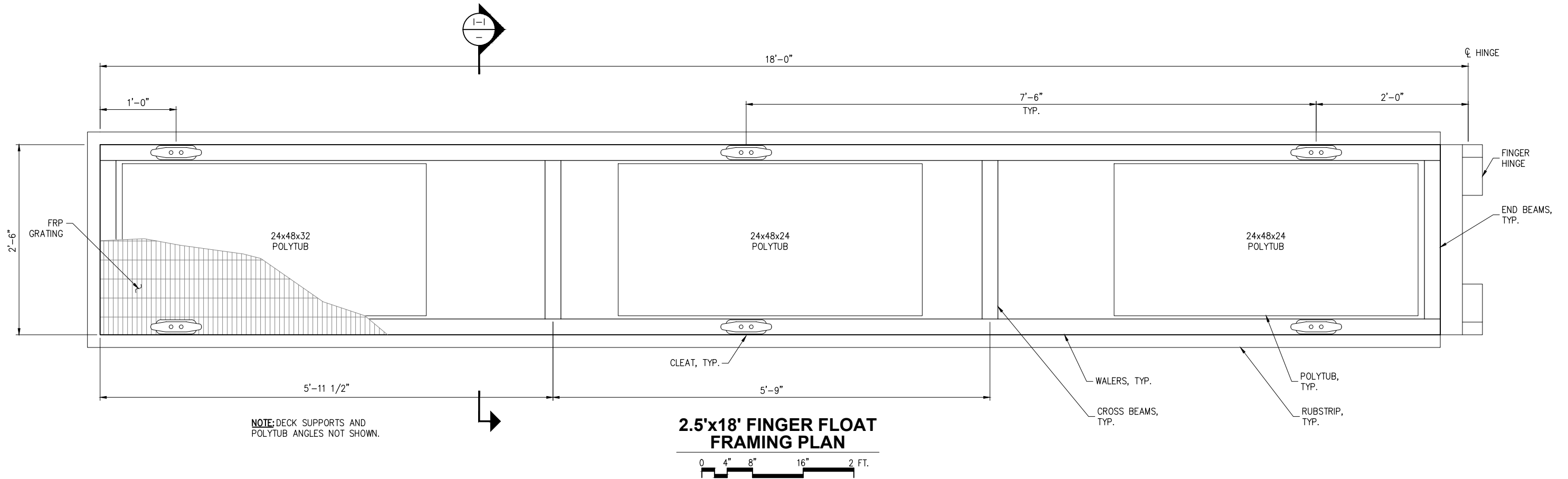
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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: 4'x32' AND 5'x32' FINGER FLOAT			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO: S3.07	
DRAWN BY: WL	DATE: OCTOBER 2022		
CHECKED BY: RJ	SCALE: NOTED		

10/4/2022 3:19 PM K:\2022\224017 Depoe Bay Floats 2-4 Replacement\100% REVIEW SUBMITTAL\224017.S3.08.dwg



WELD NOTES:

1. WELD ALL JOINTS WITH 5/16" FILLET, ALL AROUND, OR EQUIVALENT BEVEL, UNLESS OTHERWISE NOTED.
2. MAX VENT HOLES FOR GALVANIZING SHALL NOT EXCEED 1/2"Ø, ANY LARGER HOLES OR OPEN ENDS SHALL BE PLUGGED AND SEAL WELDED WITH END CAPS, AS APPROPRIATE.
3. REPAIR ALL COATINGS AS REQUIRED.

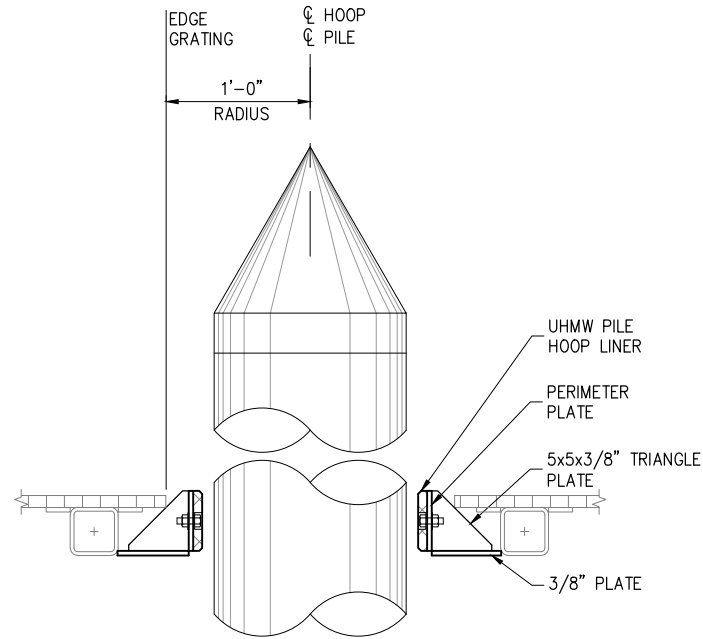


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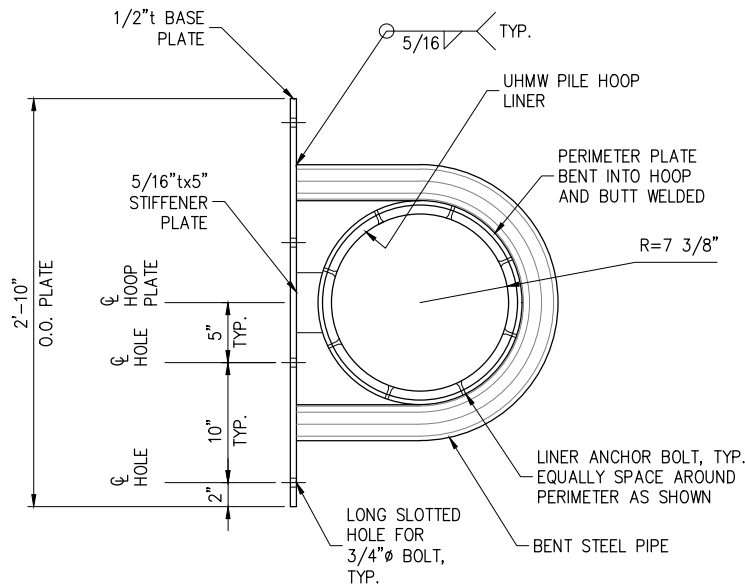
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REVISIONS		
REV	DATE	DESCRIPTION

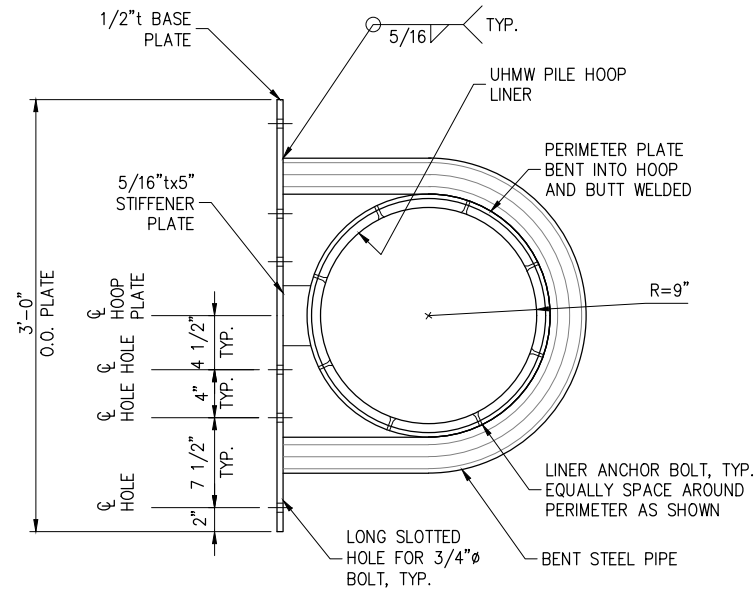
PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: 2.5'x18' FINGER FLOAT			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO: S3.08	
DRAWN BY: WL	DATE: OCTOBER 2022		
CHECKED BY: RJ	SCALE: NOTED		



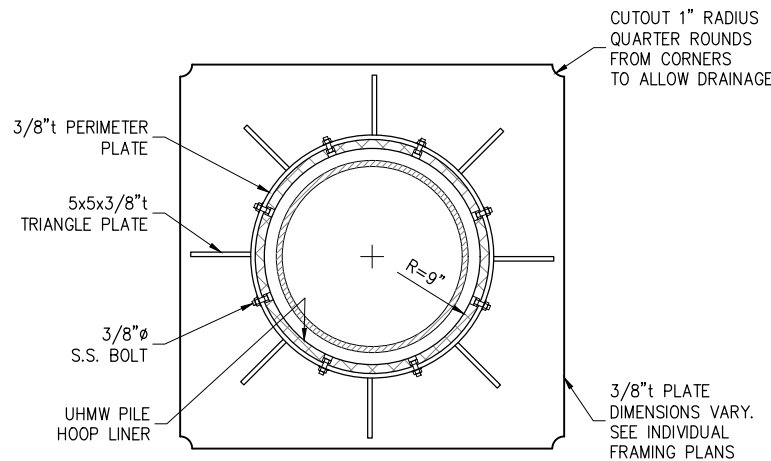
SECTION



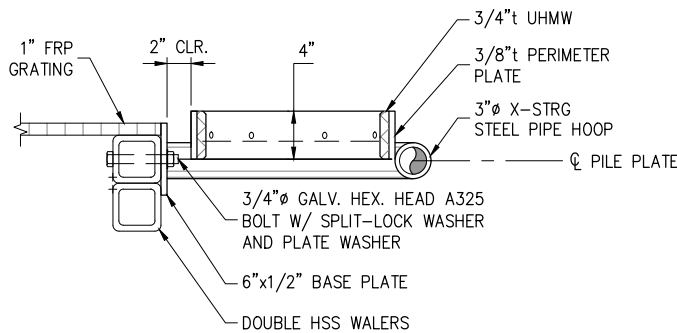
EXTERNAL 12.75" PILE HOOP PLAN



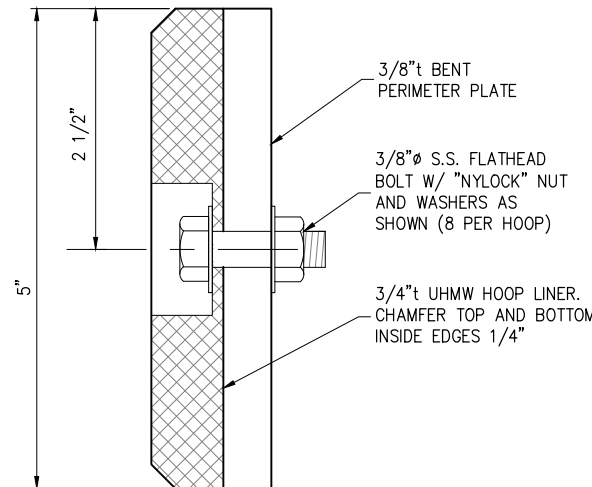
EXTERNAL 16" PILE HOOP PLAN



TYPICAL INTERNAL PILE HOOP



EXTERNAL PILE HOOP ELEVATION



TYPICAL PILE HOOP SECTION

WELD NOTES:

- WELD ALL JOINTS WITH 5/16" FILLET, ALL AROUND, OR EQUIVALENT BEVEL, UNLESS OTHERWISE NOTED.
- MAX VENT HOLES FOR GALVANIZING SHALL NOT EXCEED 1/2"Ø, ANY LARGER HOLES OR OPEN ENDS SHALL BE PLUGGED AND SEAL WELDED WITH END CAPS, AS APPROPRIATE.
- REPAIR ALL COATINGS AS REQUIRED.



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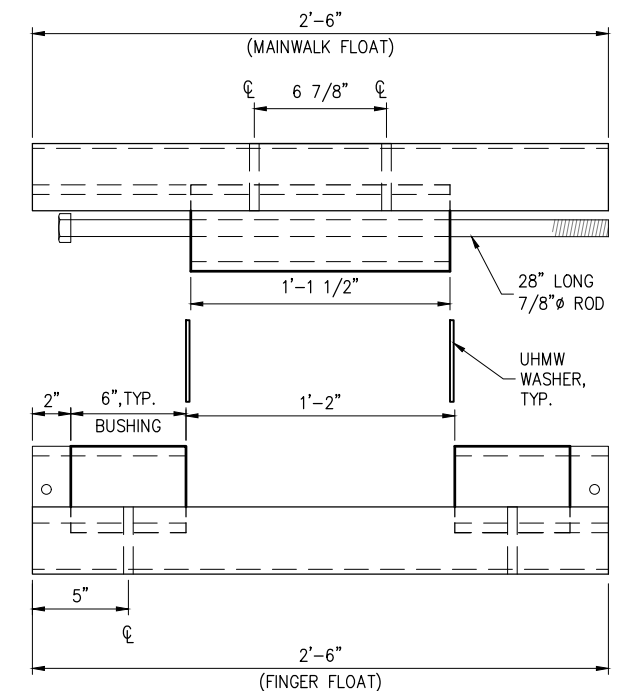
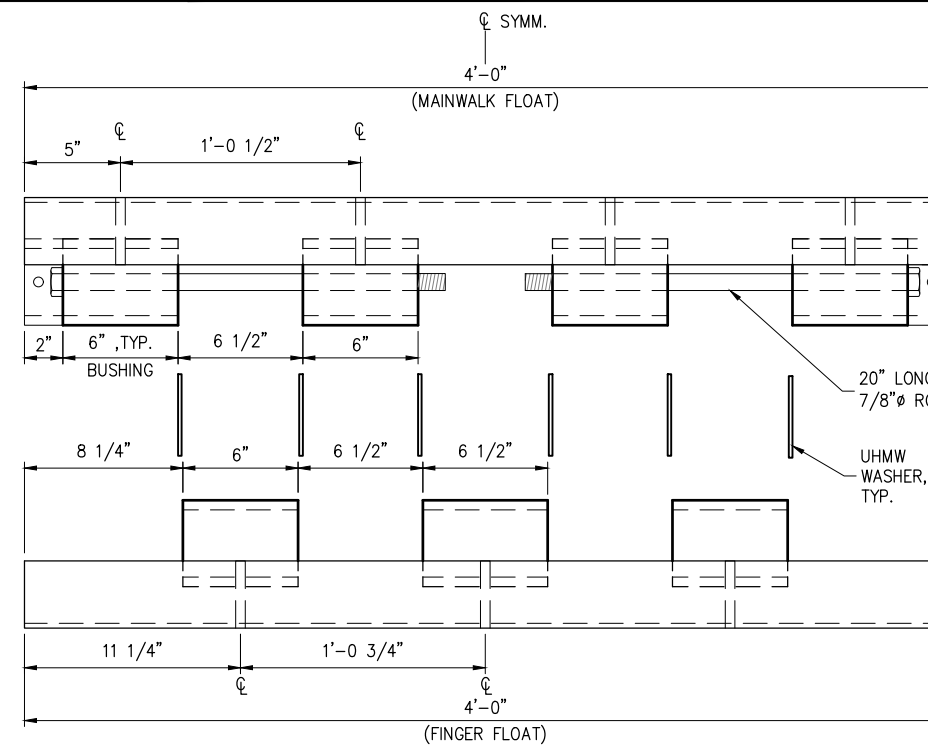
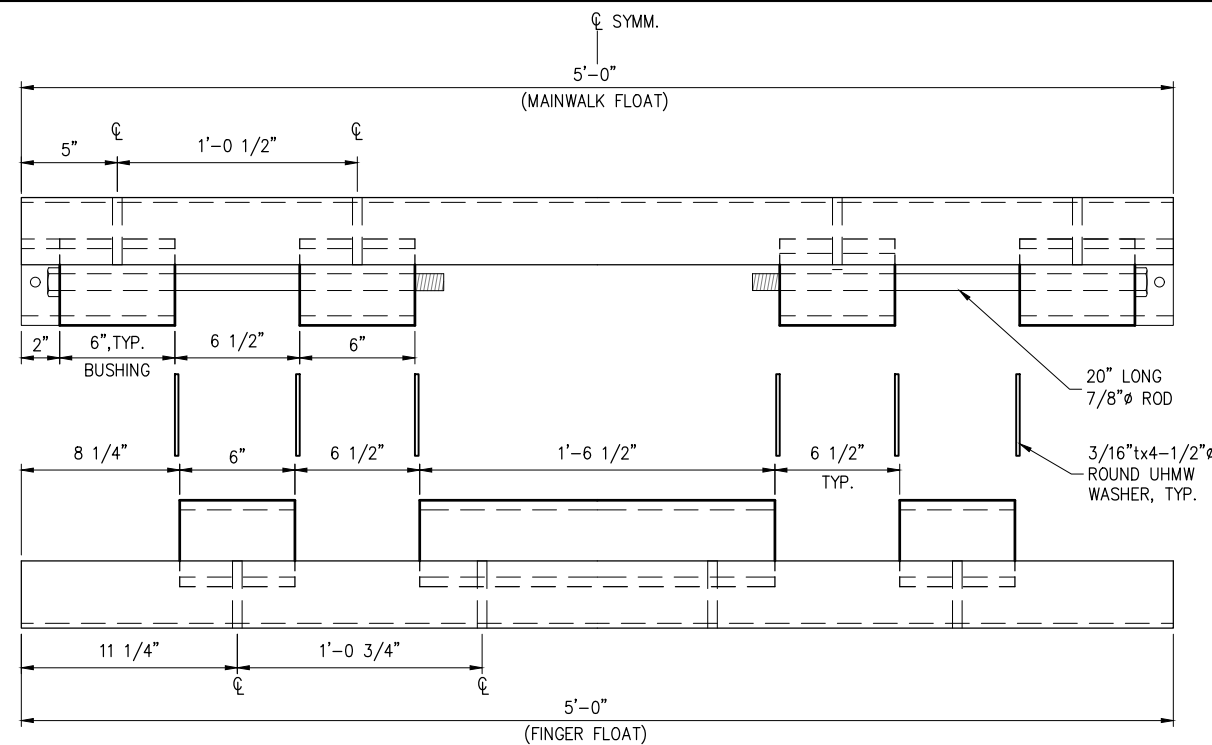
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REVISIONS

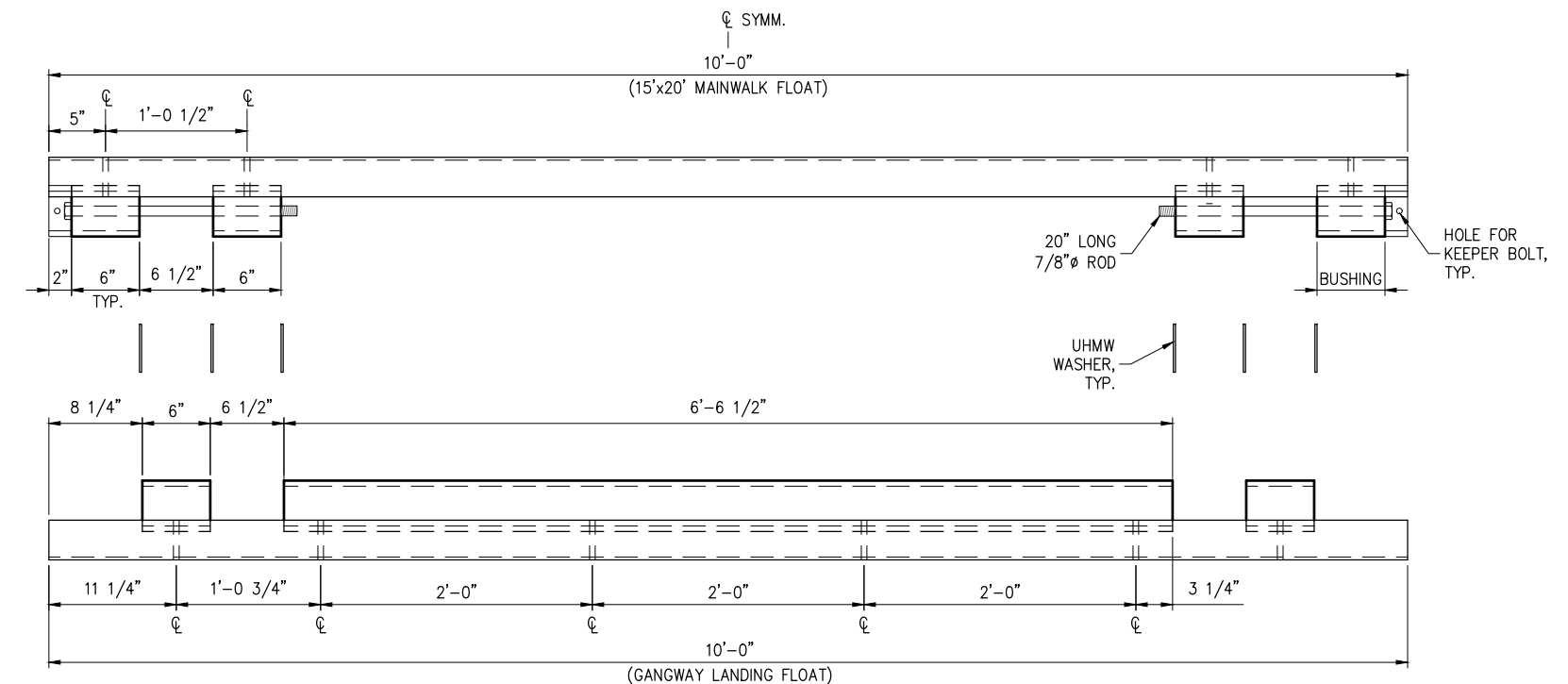
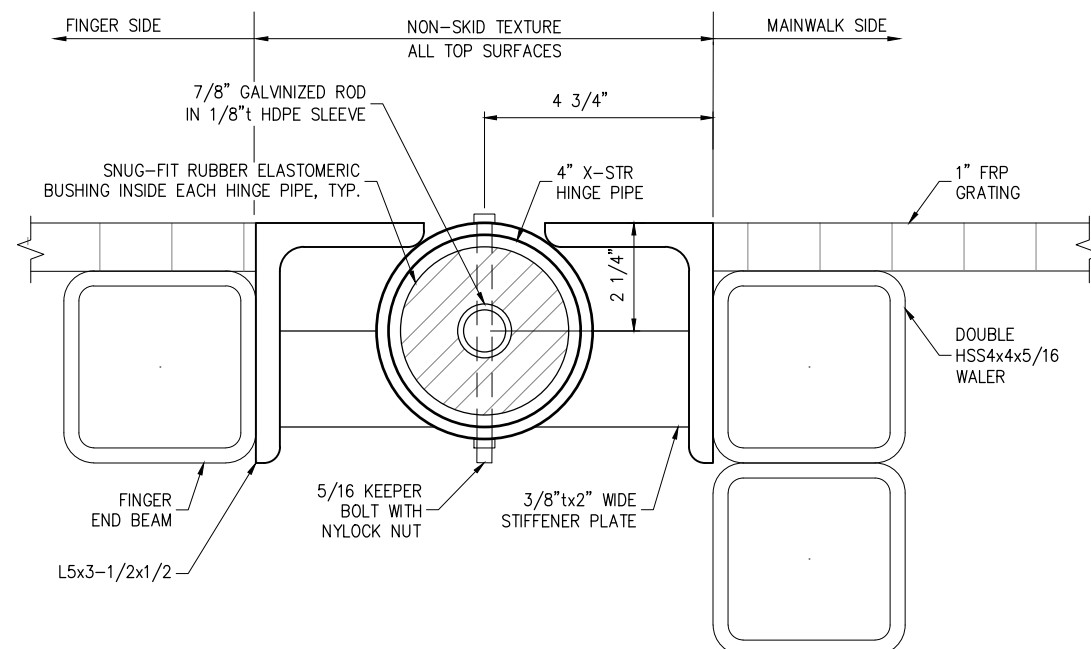
REV	DATE	DESCRIPTION

100% REVIEW SUBMITTAL

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: PILE HOOP DETAILS			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO:	
DRAWN BY: WL	DATE: OCTOBER 2022	S4.01	
CHECKED BY: RJ	SCALE: NOTED		



- WELD NOTES:**
1. WELD ALL JOINTS WITH 5/16" FILLET, ALL AROUND, OR EQUIVALENT BEVEL, UNLESS OTHERWISE NOTED.
 2. MAX VENT HOLES FOR GALVANIZING SHALL NOT EXCEED 1/2"Ø, ANY LARGER HOLES OR OPEN ENDS SHALL BE PLUGGED AND SEAL WELDED WITH END CAPS, AS APPROPRIATE.
 3. REPAIR ALL COATINGS AS REQUIRED.



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REVISIONS		
REV.	DATE	DESCRIPTION

PROJECT:

**DEPOE BAY HARBOR
DOCKS 2-4 REPLACEMENT**

	TITLE:
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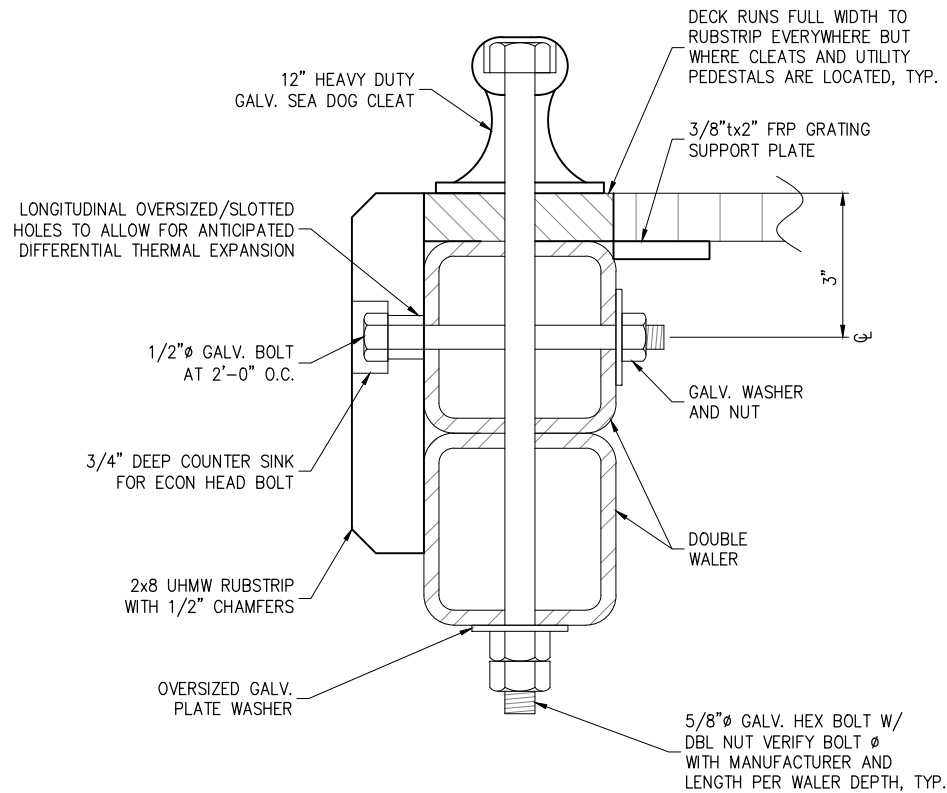
GANGWAY LANDING AND FINGER TO MAINWALK CONNECTION HINGES

DESIGNED BY:	JO	PROJECT NO:	224017	SHEET NO: S4.03
DRAWN BY:	WL	DATE:	OCTOBER 2022	
CHECKED BY:	R.J	SCALE:	NOTED	

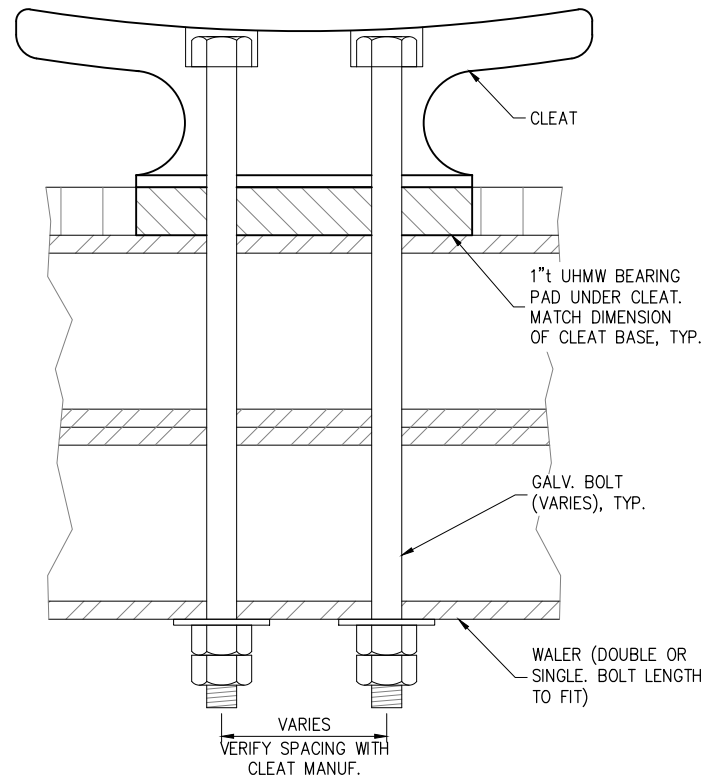
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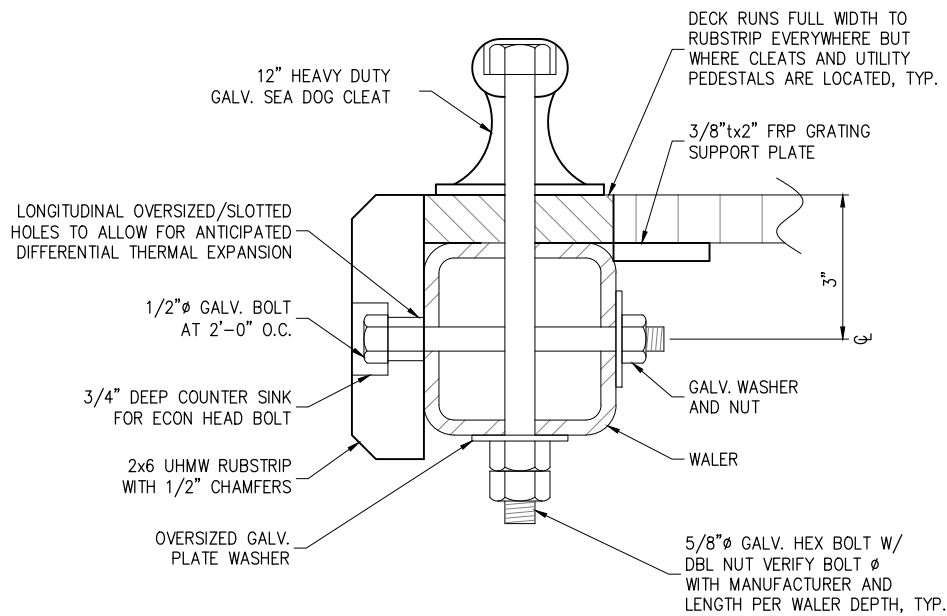
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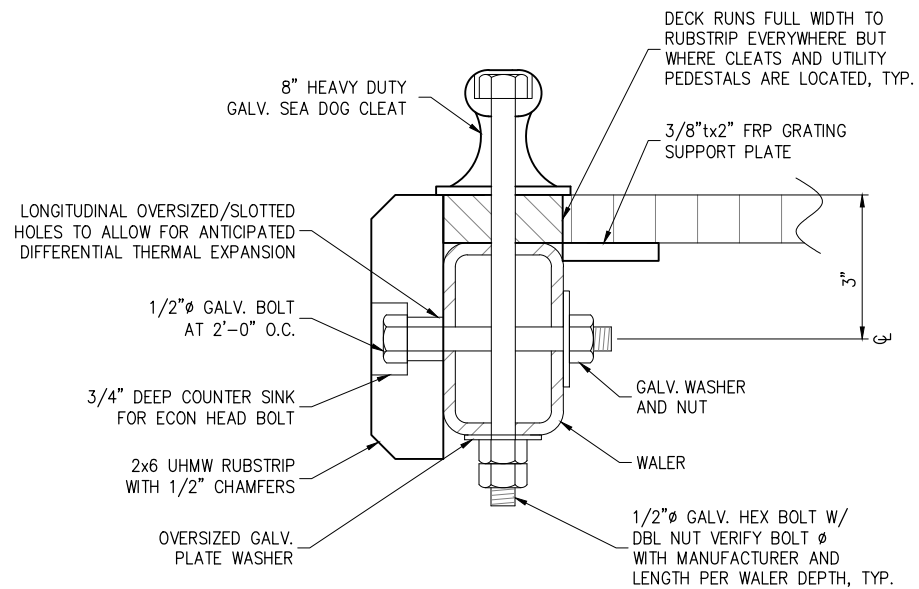
TRANSVERSE SECTION
ON MAINWALKS



LONGITUDINAL SECTION



TRANSVERSE SECTION
ON 4-FT AND 5-FT FINGERS



TRANSVERSE SECTION
ON 2.5-FT FINGERS

100% REVIEW SUBMITTAL

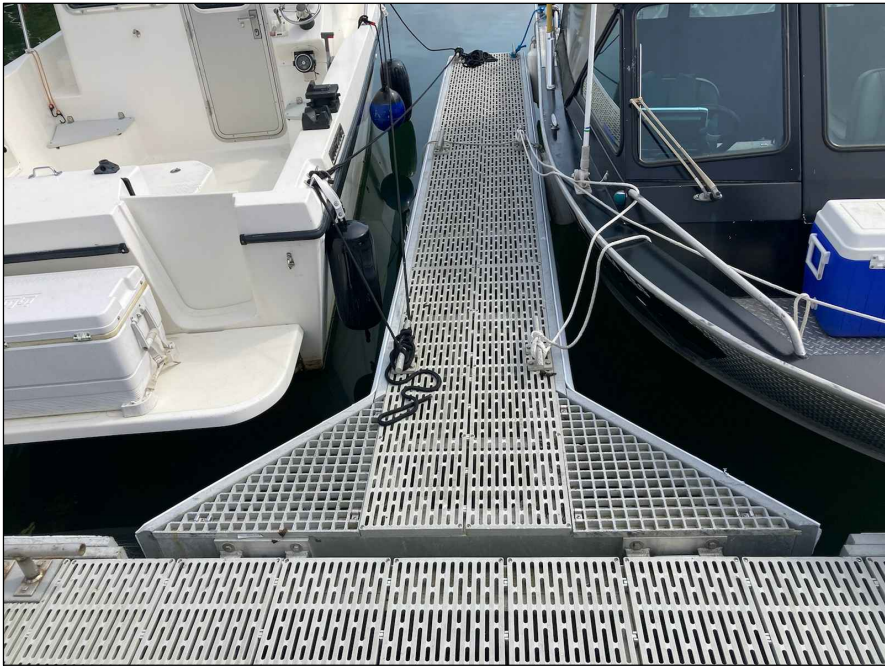


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REVISIONS		
REV	DATE	DESCRIPTION

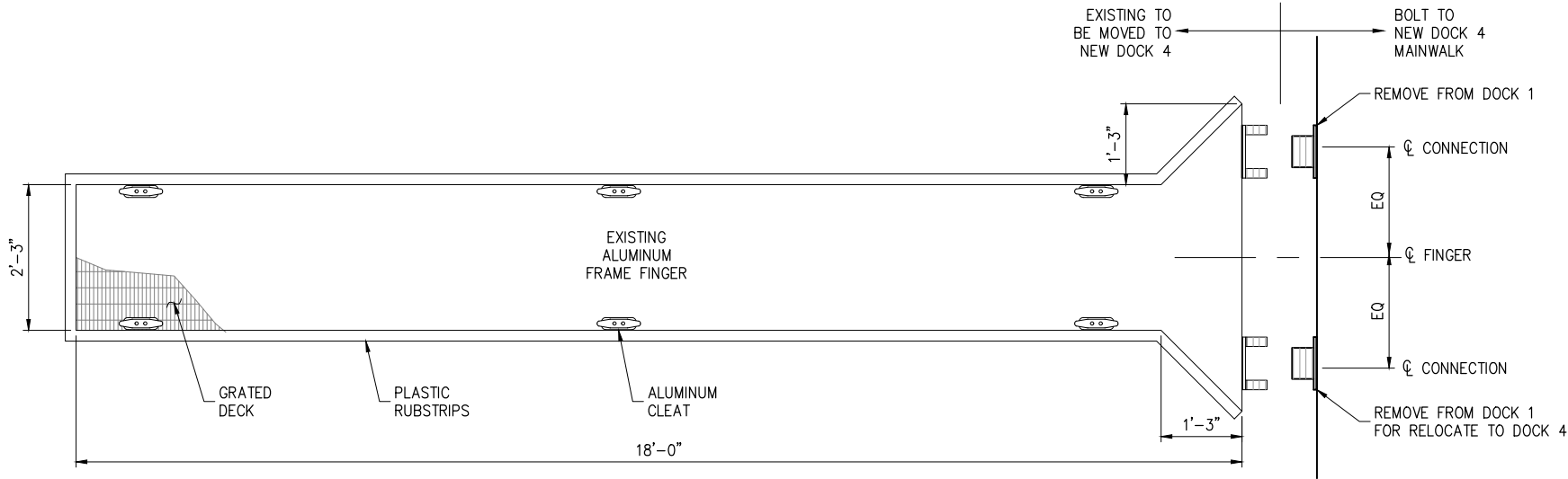
PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: CLEAT AND RUBSTRIP DETAILS			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO:	
DRAWN BY: WL	DATE: OCTOBER 2022	S4.04	
CHECKED BY: RJ	SCALE: NOTED		



EXISTING FINGER DOCK
PHOTO

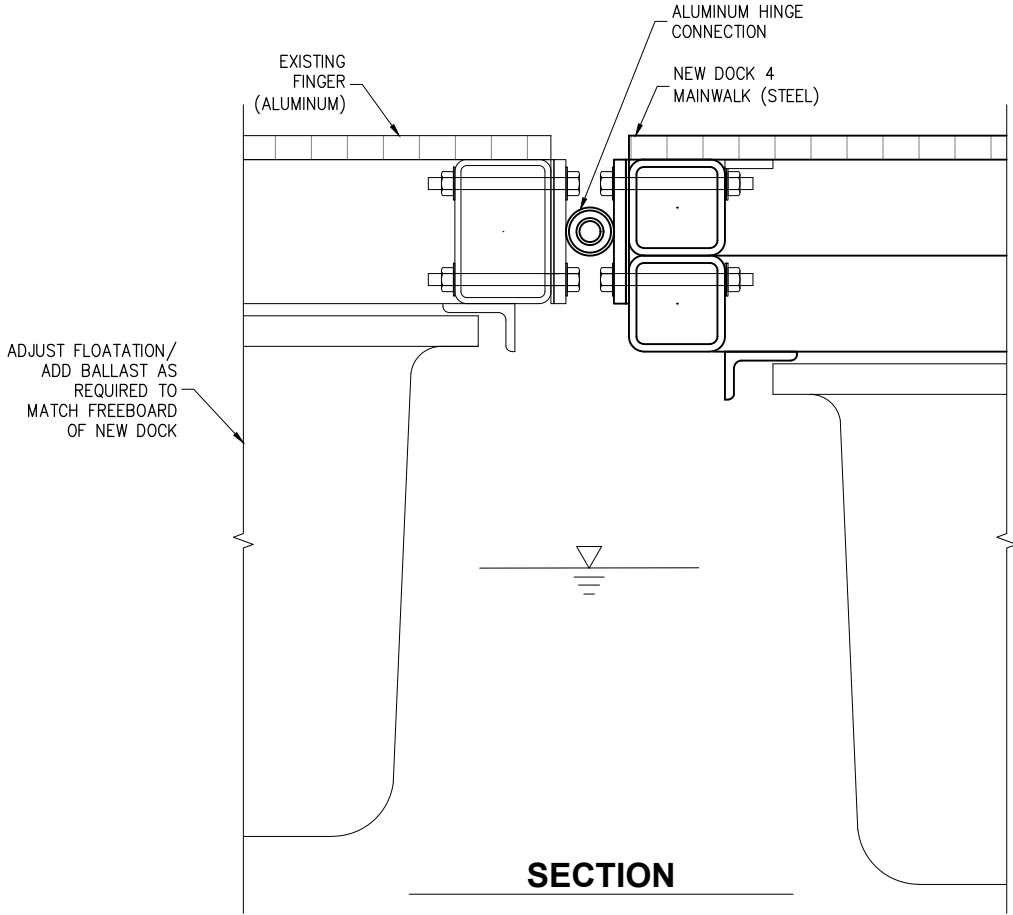


EXISTING HINGE
CONNECTION PHOTO

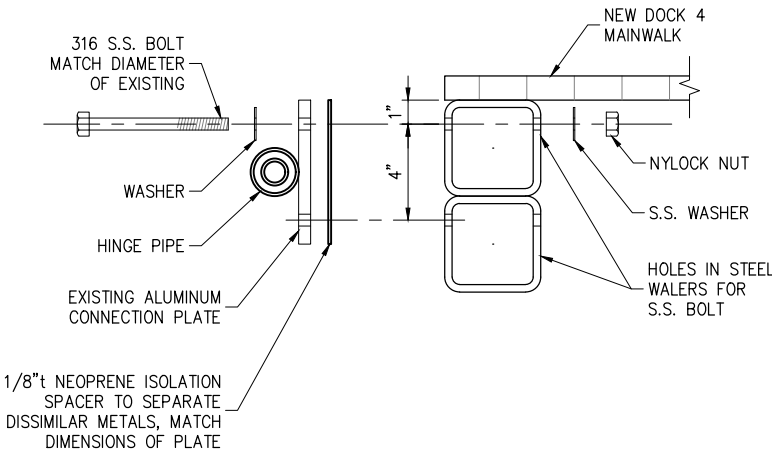


2'-3"x18' EXISTING ALUMINUM
FINGER DOCK

NOTE:
CONTRACTOR SHALL FIELD MEASURE ALL CONNECTION DIMENSIONS AND DETAILS FOR RELOCATING AND ATTACHING EXISTING ALUMINUM FINGER DOCK TO NEW STEEL MAINWALK. DISSIMILAR METALS SHALL BE ISOLATED FROM CONTACT WITH EACH OTHER. ADJUST FLOATATION AND/OR BALLAST ALUMINUM DOCK AS NEEDED TO MATCH FREEBOARD OF ADJOINING NEW DOCK 4 MAINWALK.



SECTION



ALUMINUM HINGE
CONNECTION DETAIL

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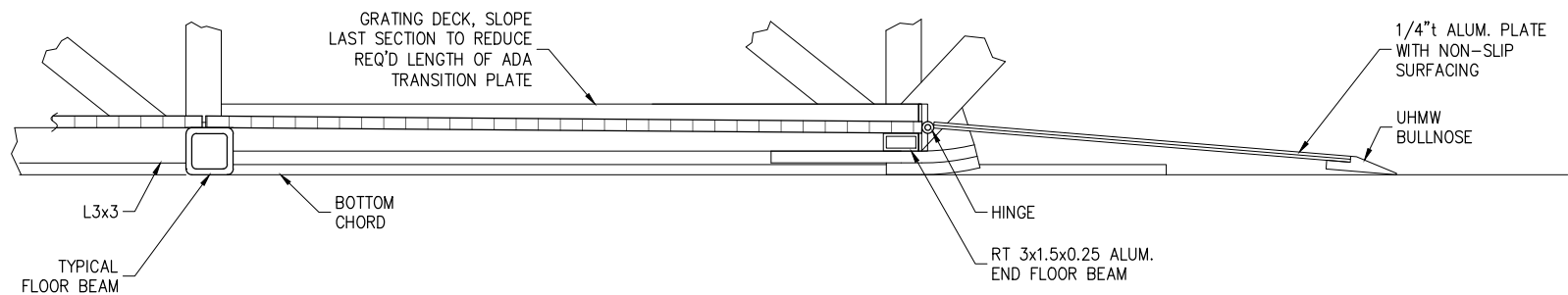
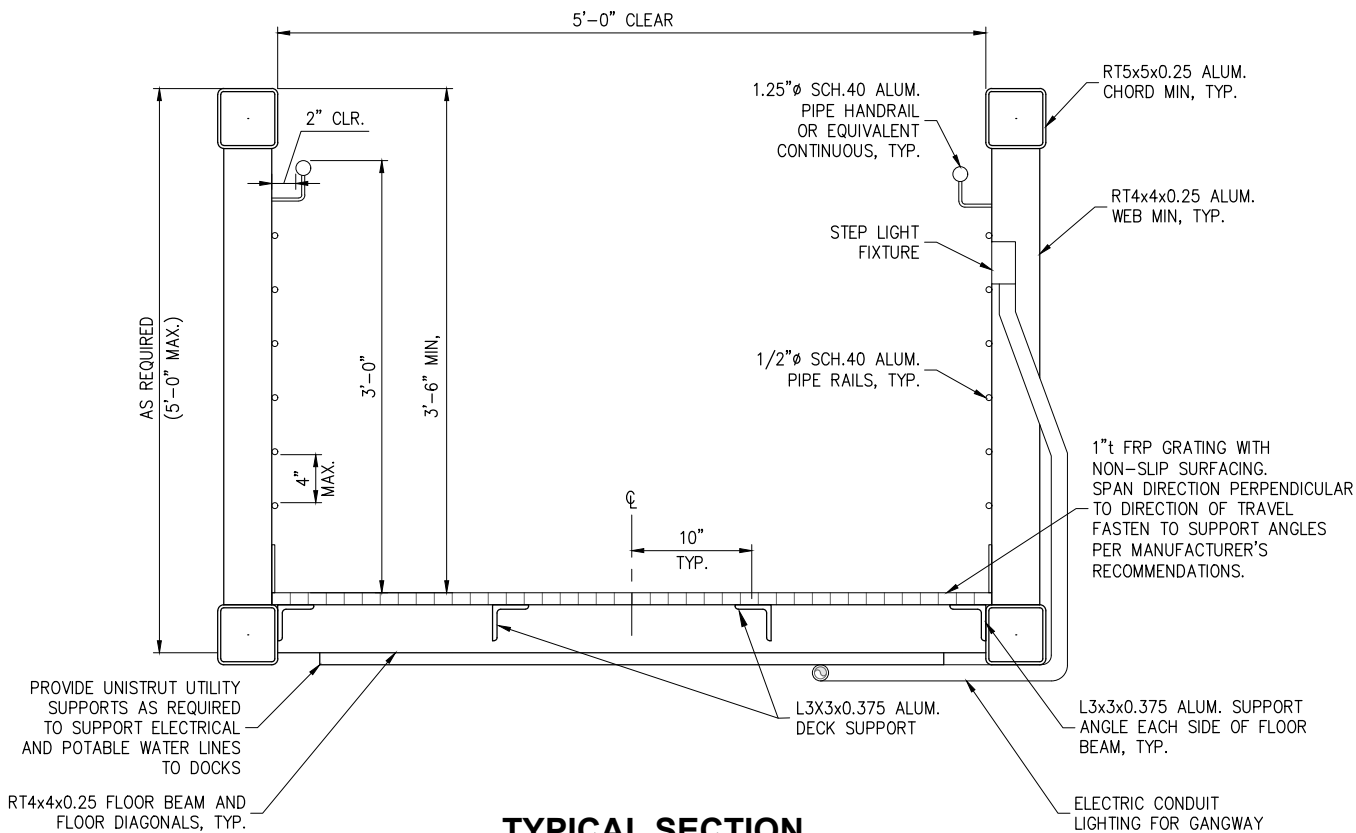
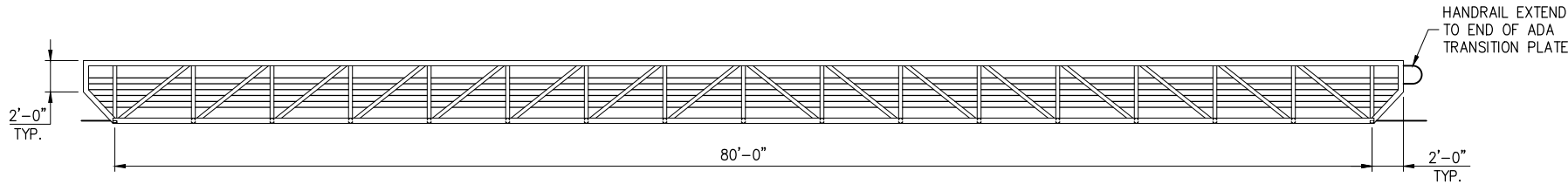
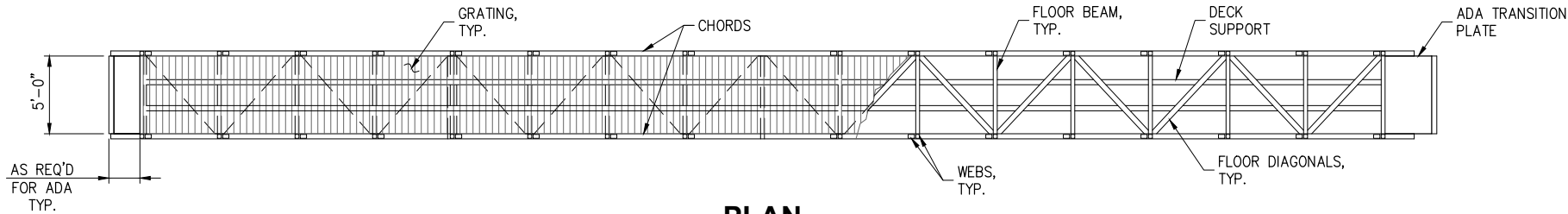
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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: ALUMINUM FINGER DOCK RELOCATION			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO:	
DRAWN BY: WL	DATE: OCTOBER 2022	S4.05	
CHECKED BY: RJ	SCALE: NOTED		

9/29/2022 12:05 PM K:\2022\224017 Depoe Bay Floats 2-4 Replacement\100% REVIEW SUBMITTAL\224017.S5.01.dwg



PERFORMANCE SPECIFICATIONS:

GANGWAY PERFORMANCE CRITERIA

Gangway is design build by vendor to meet performance criteria requirements. Submit shop drawings and calculations for approval by Engineer.

SUPPLIED DETAILS

Details shown are for reference only. Gangway manufacturer may submit different details for attaching gangway at hanger end, bearing end (skid shoe or roller), transition plates, etc. Submit alternative details with calculations for approval.

APPLICABLE CODES

All local codes plus the Applicable Codes and Standards found in the Technical Specifications.

DESIGN CRITERIA

All design criteria are found in the technical specification.

MATERIALS AND CONSTRUCTION

Gangway shall be constructed of aluminum.

All material and construction shall conform to the specifications.

100% REVIEW SUBMITTAL



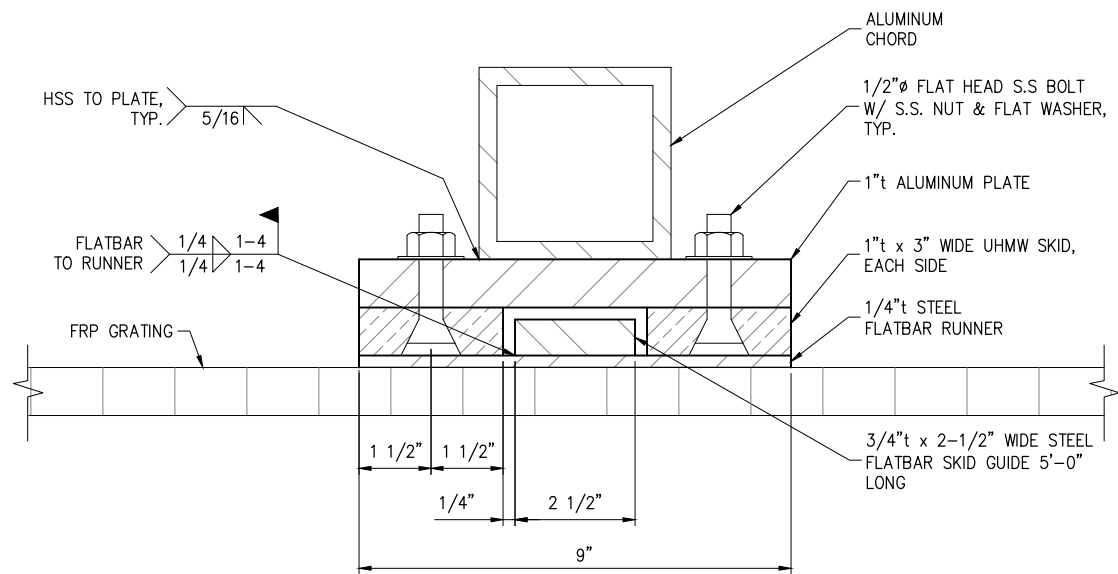
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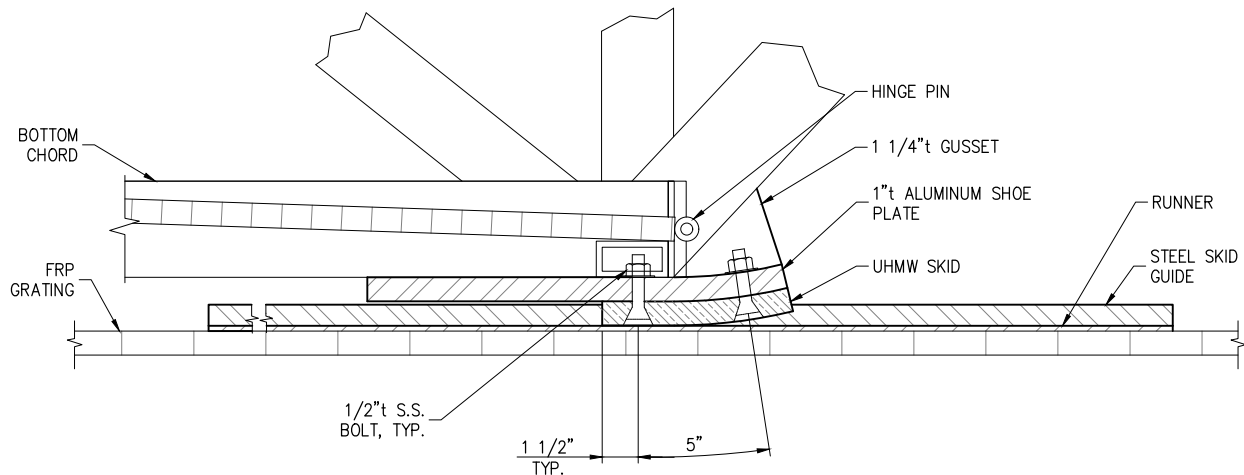
REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: GANGWAY PLAN, ELEVATION AND SECTION			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO:	
DRAWN BY: WL	DATE: OCTOBER 2022	S5.01	
CHECKED BY: RJ	SCALE: NOTED		

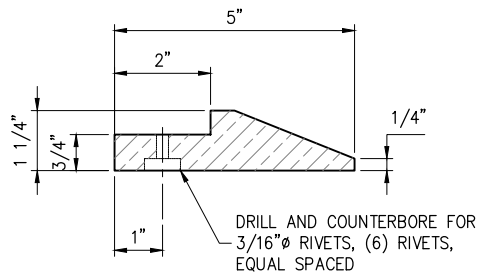
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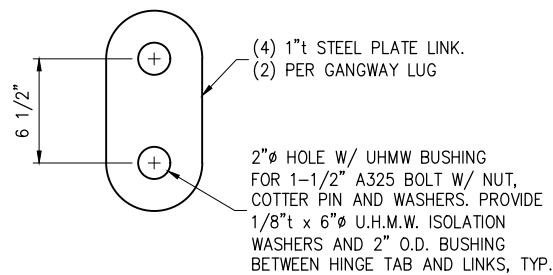
SKID SHOE SHOWN. UHMW ROLLER ALTERNATIVE WITH APPROVAL BY ENGINEER.



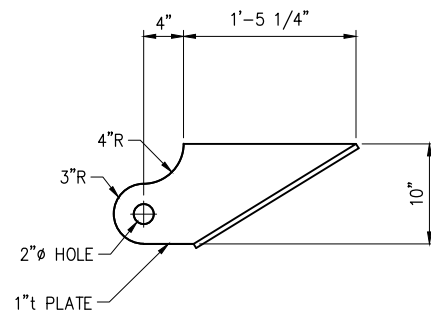
SKID SHOE



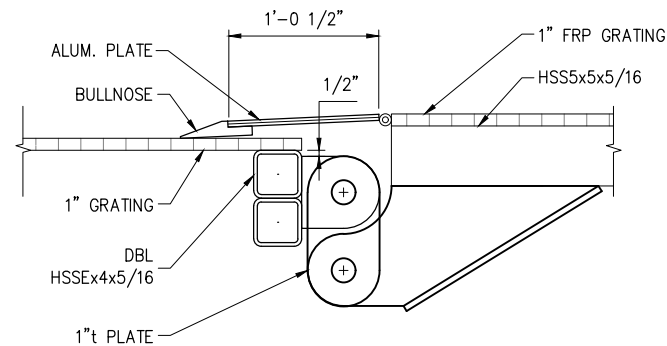
BULLNOSE WEAR EDGE



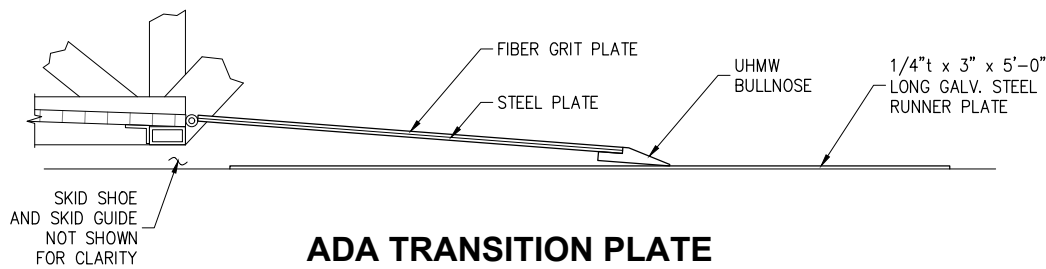
LINK PLATE



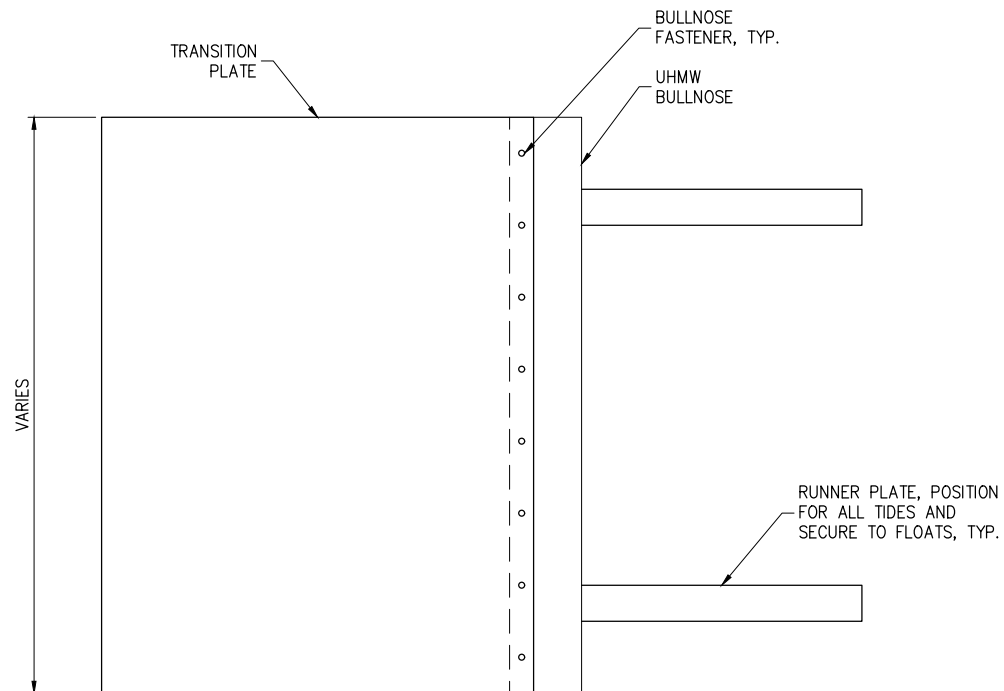
GANGWAY LUG PLATE



ADA TRANSITION PLATE SECTION APPROACH



ADA TRANSITION PLATE SECTION FLOAT



ADA TRANSITION PLATE PLAN

100% REVIEW SUBMITTAL



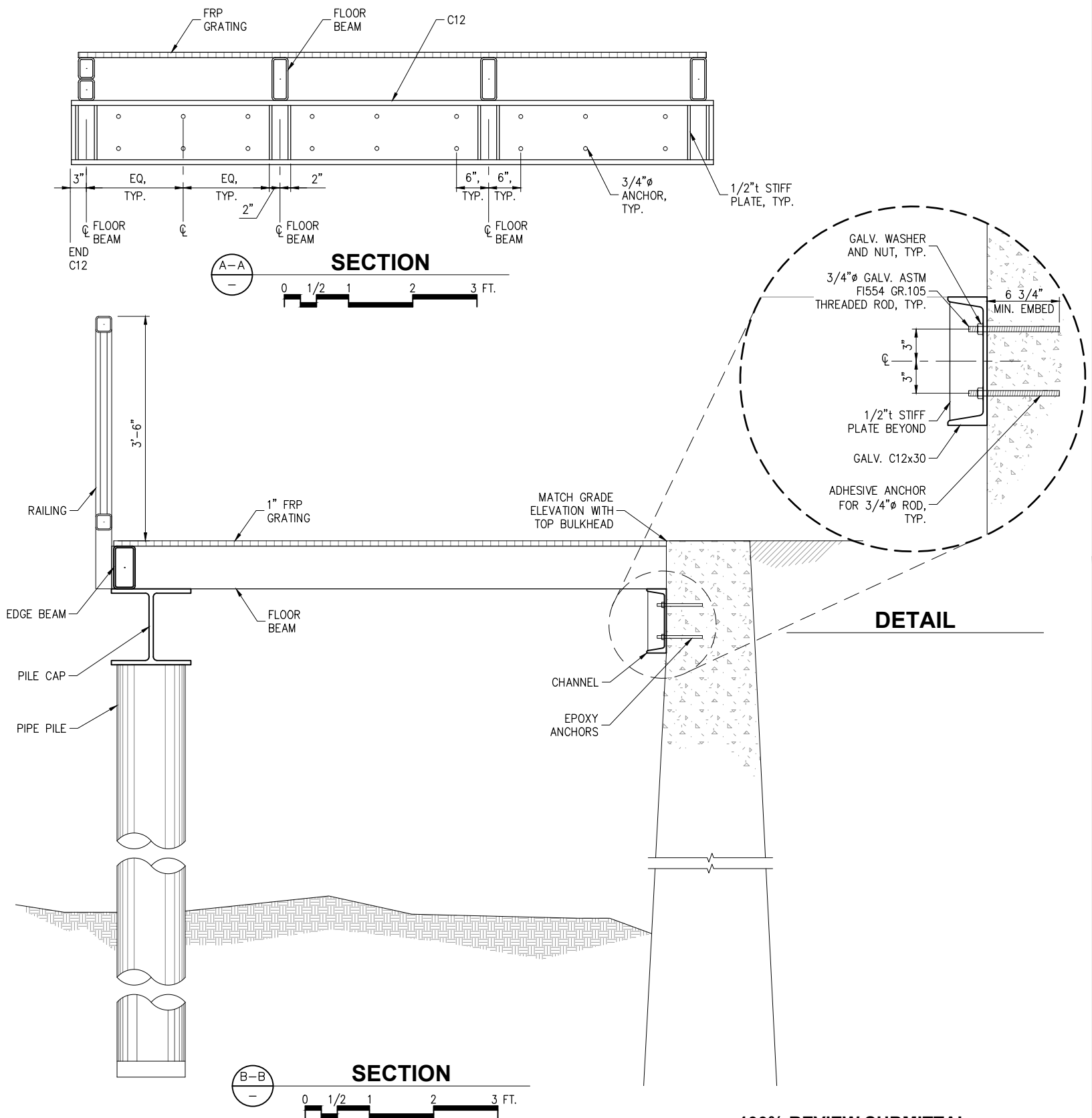
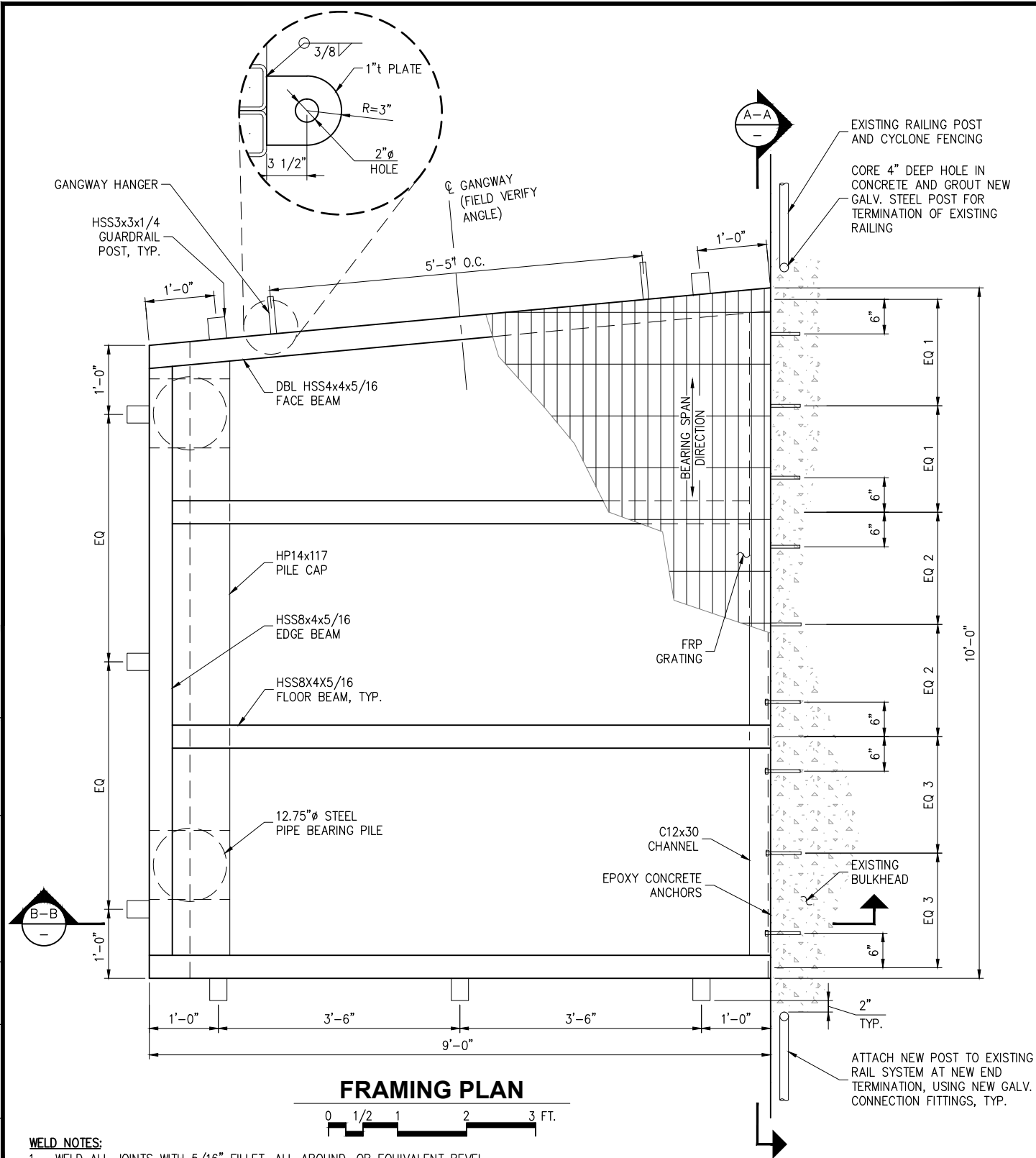
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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: GANGWAY DETAILS			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO: S5.02	
DRAWN BY: WL	DATE: OCTOBER 2022		
CHECKED BY: RJ	SCALE: NOTED		

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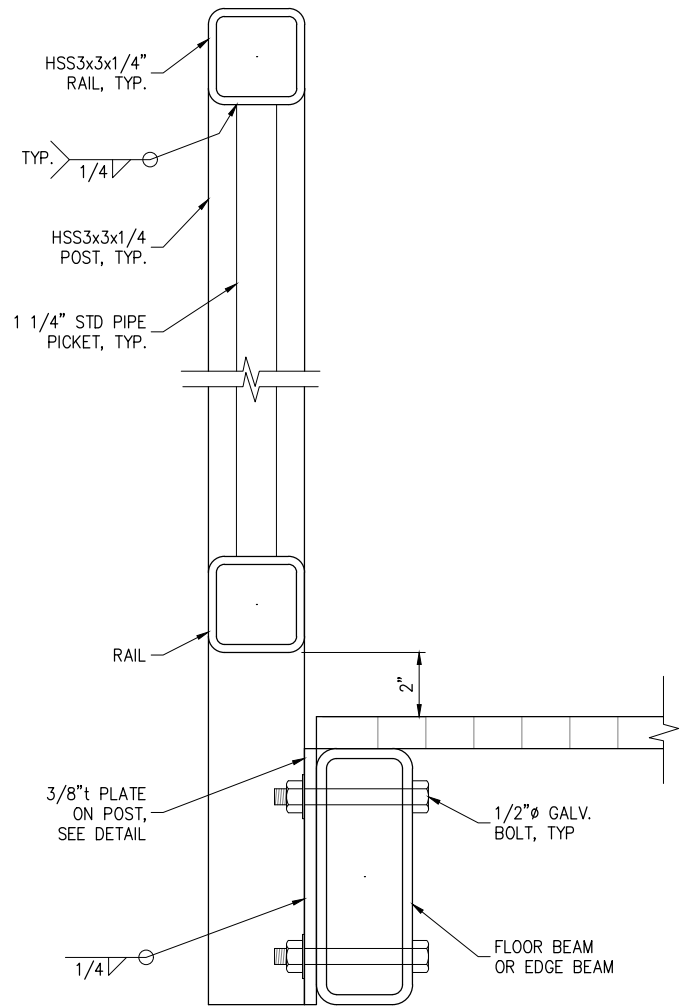
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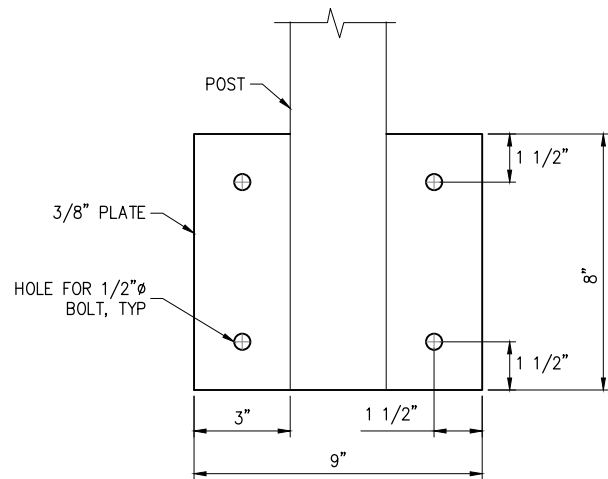
REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: APPROACH PIER PLAN, SECTIONS AND DETAILS			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO:	
DRAWN BY: WL	DATE: OCTOBER 2022	S6.01	
CHECKED BY: RJ	SCALE: NOTED		

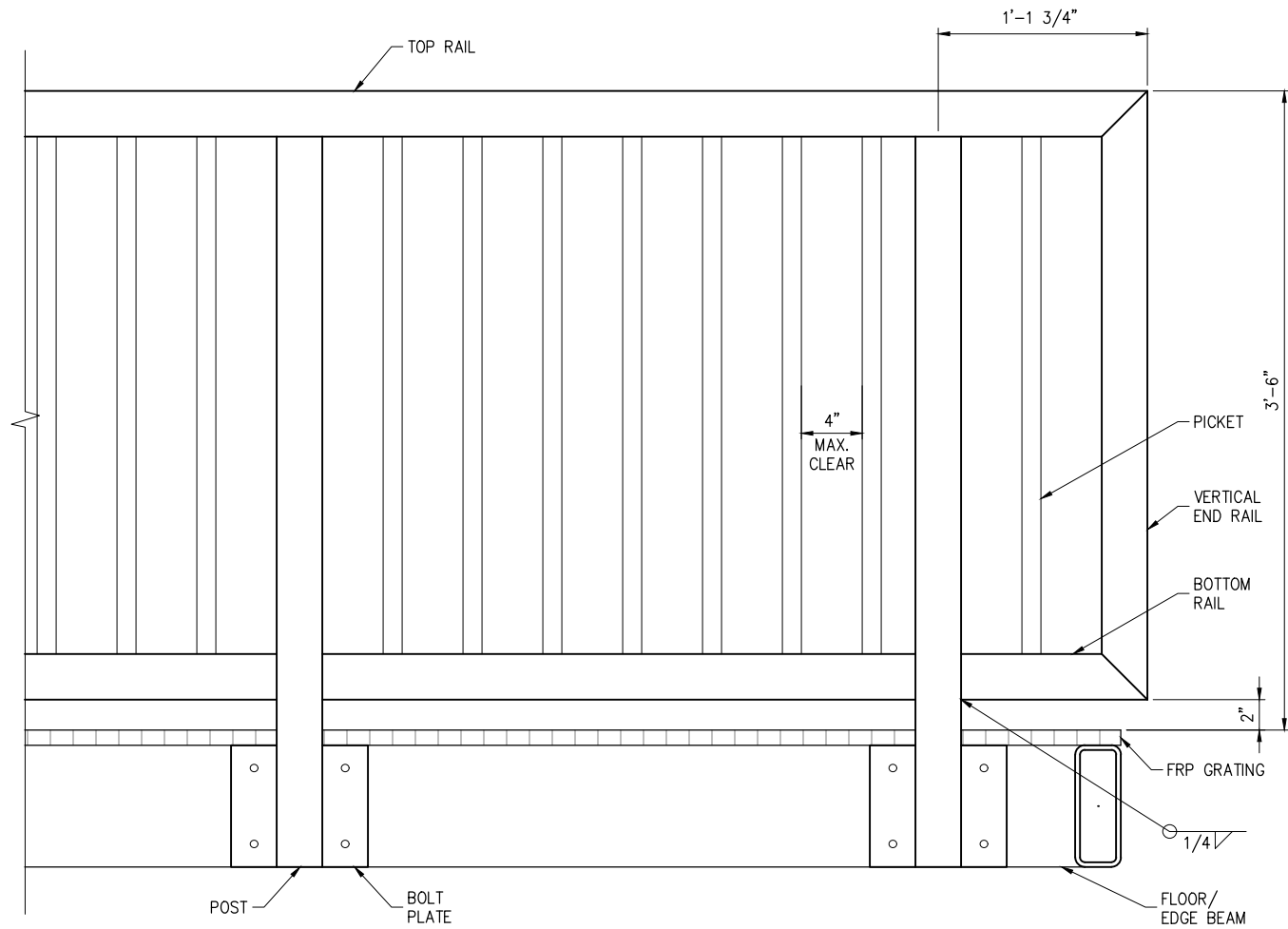
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RAILING
PROFILE



POST BOLT PLATE
DETAIL



RAILING
ELEVATION

WELD NOTES:

1. WELD ALL JOINTS WITH 1/4" FILLET, ALL AROUND, OR EQUIVALENT BEVEL, UNLESS OTHERWISE NOTED.
2. MAX VENT HOLES FOR GALVANIZING SHALL NOT EXCEED 1/2"Ø, ANY LARGER HOLES OR OPEN ENDS SHALL BE PLUGGED AND SEAL WELDED WITH END CAPS, AS APPROPRIATE.
3. REPAIR ALL COATINGS AS REQUIRED.

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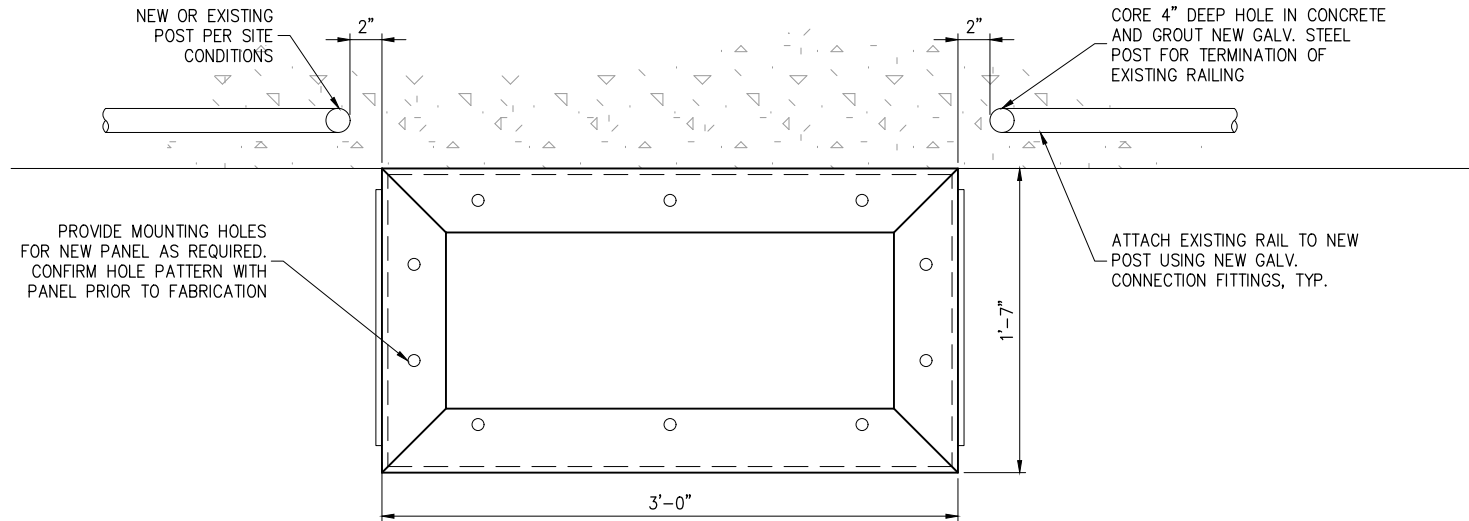
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REVISIONS		
REV	DATE	DESCRIPTION

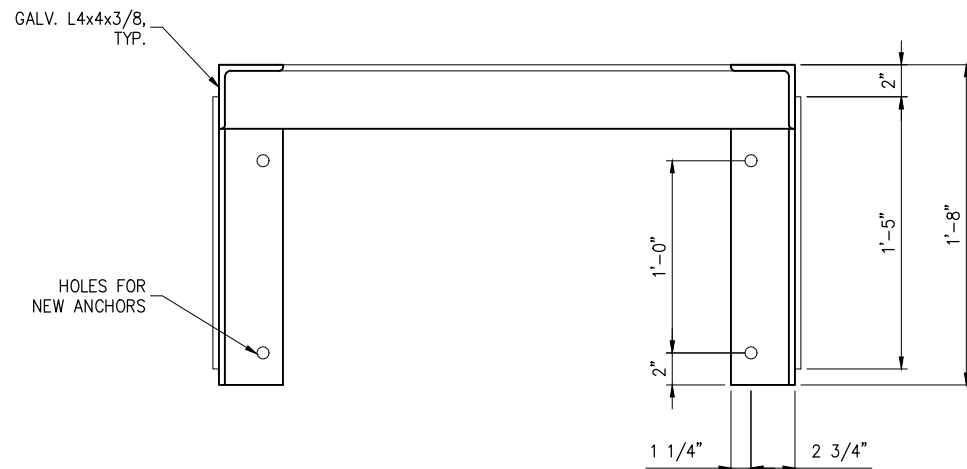
PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: APPROACH PIER DETAILS			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO: S6.02	
DRAWN BY: WL	DATE: OCTOBER 2022		
CHECKED BY: RJ	SCALE: NOTED		

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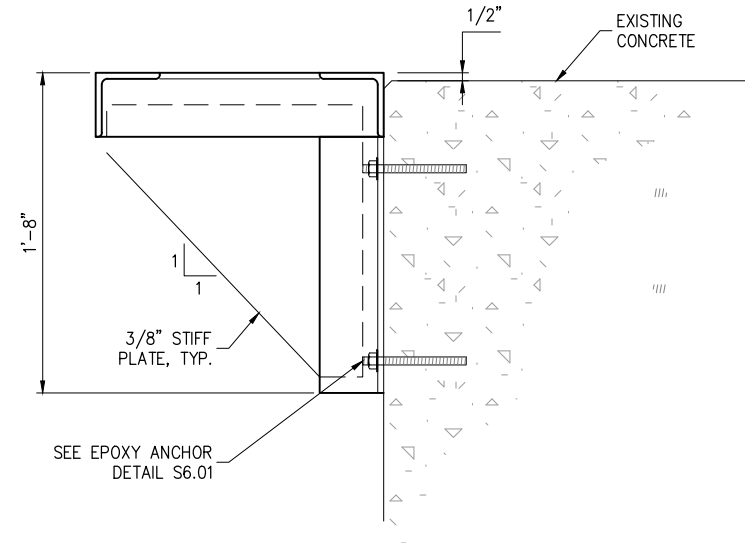


PLAN

- FABRICATION NOTES:**
1. WELD ALL JOINTS WITH 5/16" FILLET, ALL AROUND, OR EQUIVALENT BEVEL.
 2. HOT DIP GALVANIZE AFTER WELDING ALL JOINTS AND DRILLING ALL MOUNTING HOLES.
 3. REPAIR ALL COATINGS AS REQUIRED.



ELEVATION



PROFILE

100% REVIEW SUBMITTAL



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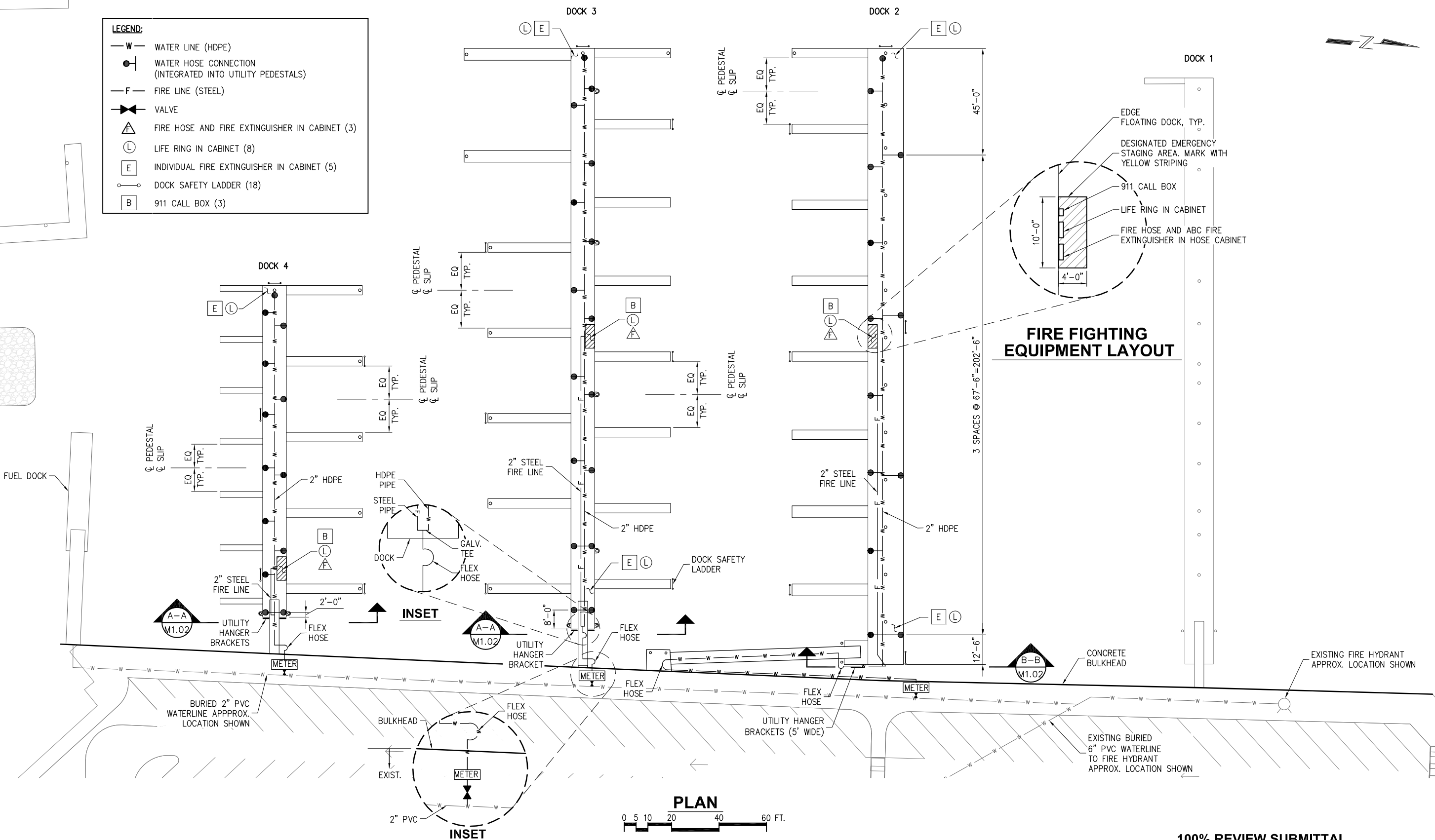
REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: ELECTRICAL PANEL SUPPORT PLATFORM			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO:	
DRAWN BY: WL	DATE: OCTOBER 2022	S7.01	
CHECKED BY: RJ	SCALE: NOTED		

10/11/2022 2:52 PM K:\2022\224017 Depoe Bay Floats 2-4 Replacement\100% REVIEW SUBMITTAL\224017.M1.01.dwg

LEGEND:

- W — WATER LINE (HDPE)
- — WATER HOSE CONNECTION (INTEGRATED INTO UTILITY PEDESTALS)
- F — FIRE LINE (STEEL)
- ✕ — VALVE
- △ — FIRE HOSE AND FIRE EXTINGUISHER IN CABINET (3)
- Ⓛ — LIFE RING IN CABINET (8)
- ⓔ — INDIVIDUAL FIRE EXTINGUISHER IN CABINET (5)
- — DOCK SAFETY LADDER (18)
- ⓑ — 911 CALL BOX (3)



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REVISIONS		
REV	DATE	DESCRIPTION

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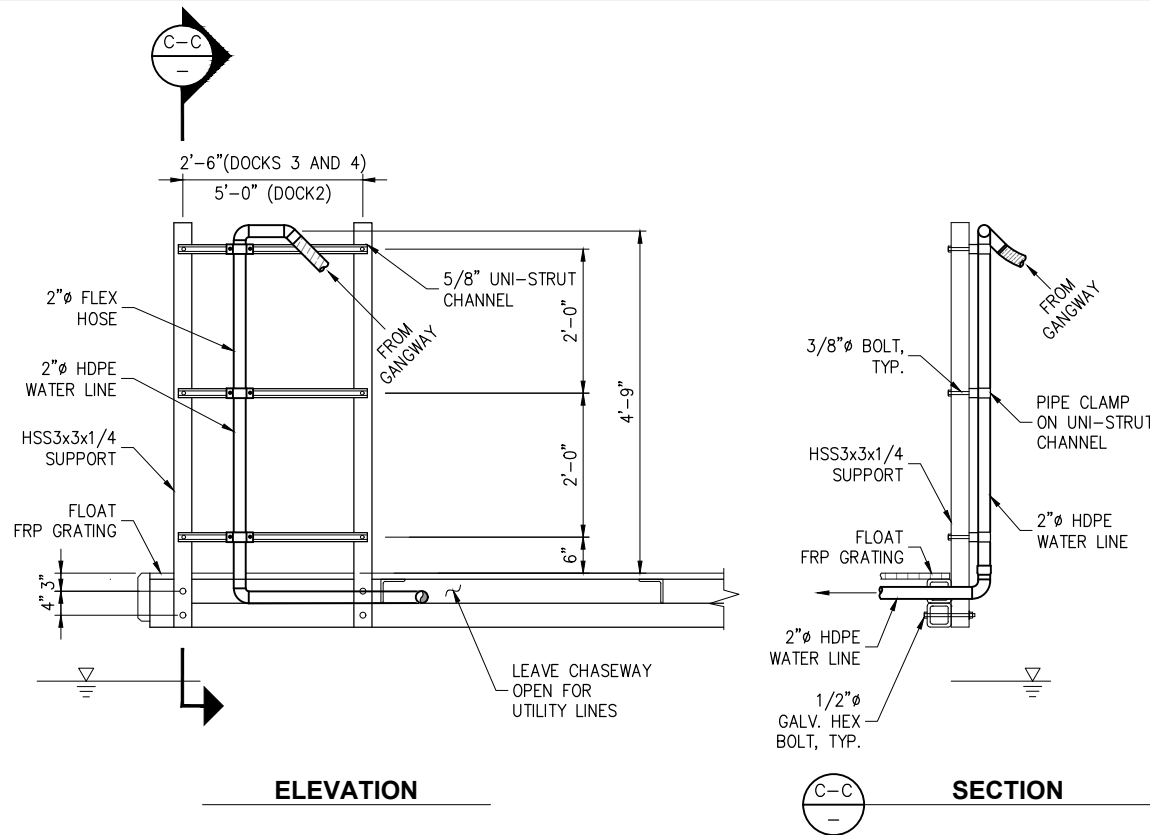
PROJECT:
DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT

TITLE:
MECHANICAL PLAN

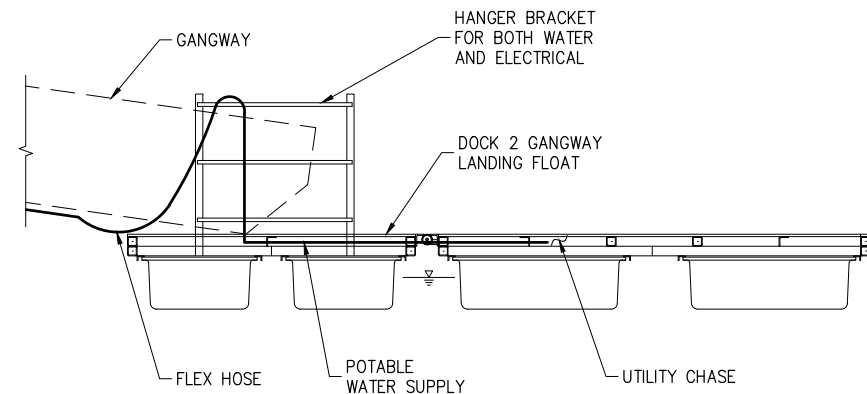
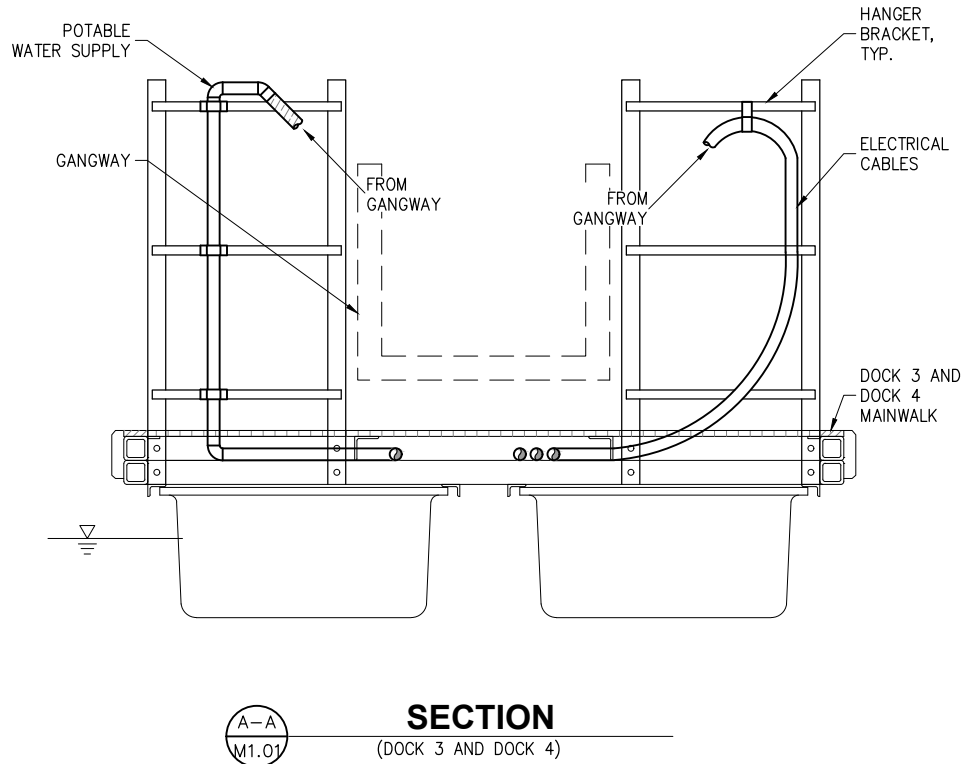
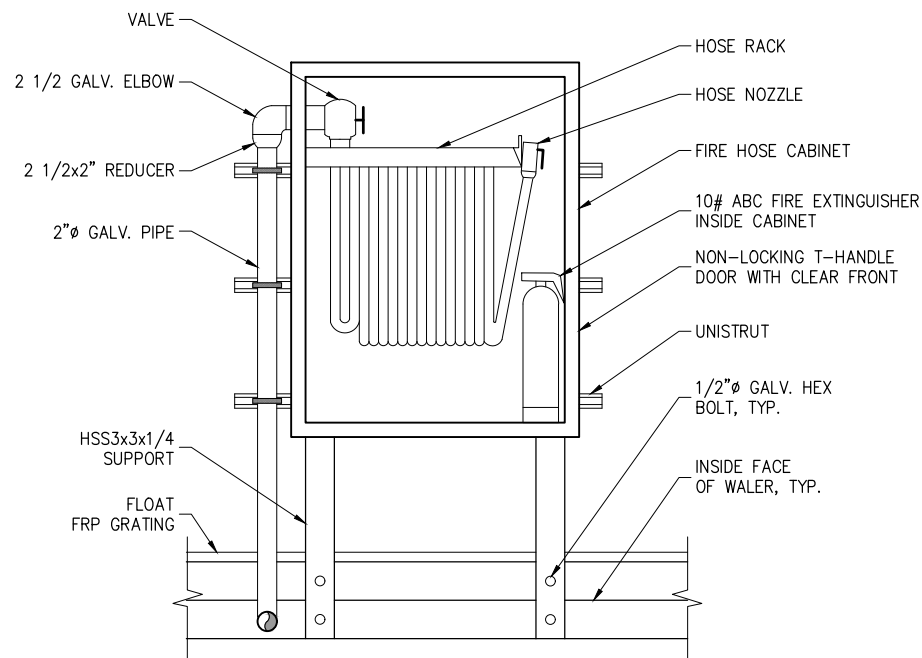
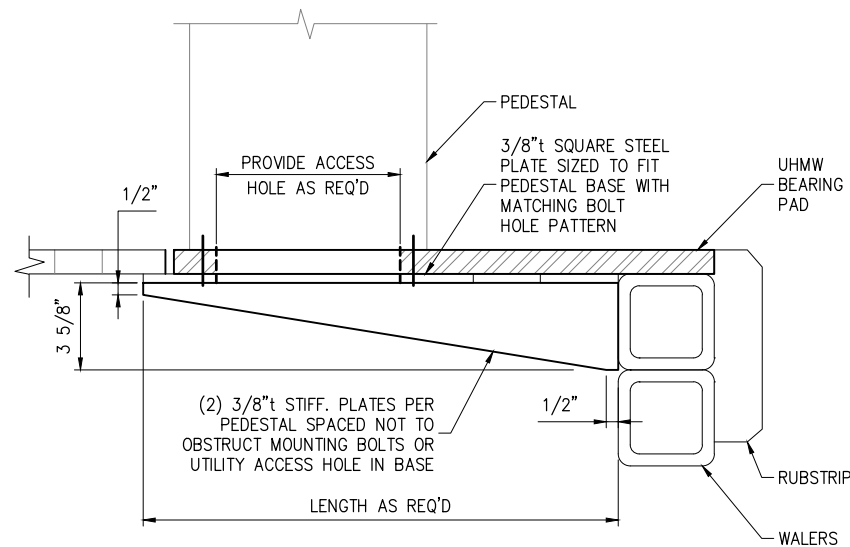
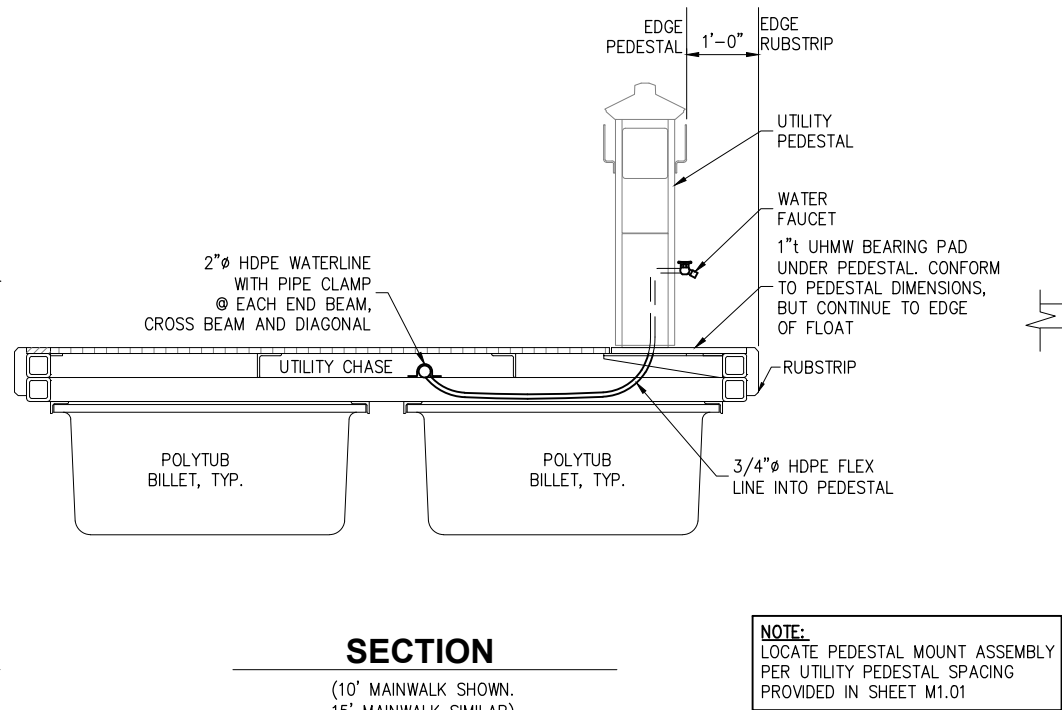
DESIGNED BY:	JO	PROJECT NO:	224017	SHEET NO:
DRAWN BY:	WL	DATE:	OCTOBER 2022	
CHECKED BY:	RJ	SCALE:	NOTED	

M1.01

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UTILITY HANGER BRACKET DETAILS



REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: DEPOE BAY HARBOR DOCKS 2-4 REPLACEMENT			
TITLE: MECHANICAL DETAILS			
DESIGNED BY: JO	PROJECT NO: 224017	SHEET NO: M1.02	
DRAWN BY: WL	DATE: OCTOBER 2022		
CHECKED BY: RJ	SCALE: NOTED		

PROJECT NOTES

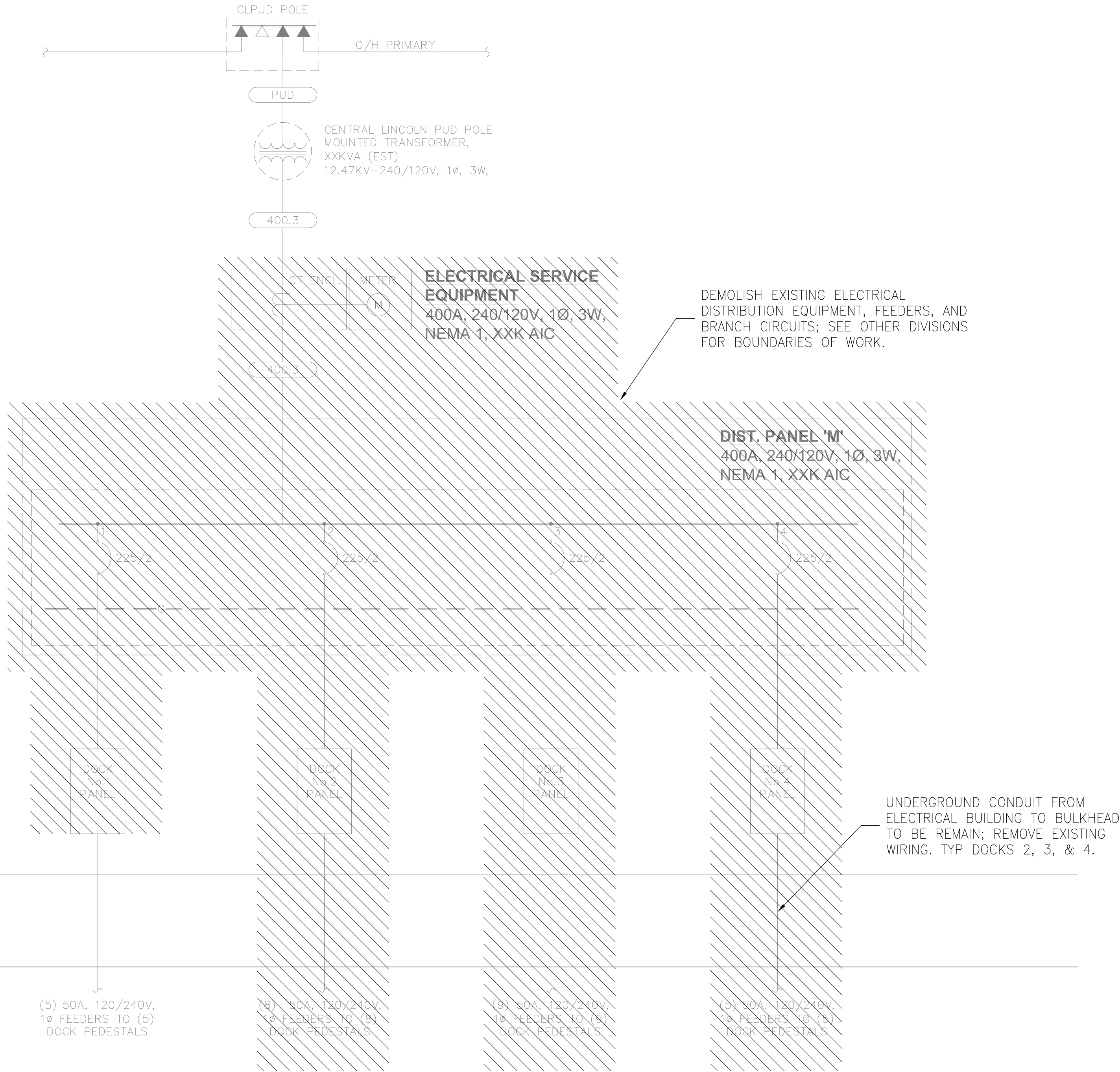
1. GENERAL: WORK SHALL BE DONE IN ACCORDANCE WITH NFPA 70 AS ADOPTED BY THE CITY OF DEPOE BAY, LINCOLN COUNTY, AND THE STATE OF OREGON.
2. LOCATIONS OF ELECTRICAL DEVICES, LIGHTING FIXTURES, ETC., INDICATED ON CIVIL / STRUCTURAL PLANS - INCLUDING SECTIONS, ELEVATIONS, NOTES, OR OTHER INDICATORS - TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.
3. REFER TO CIVIL, STRUCTURAL, MECHANICAL, LANDSCAPE, ETC., DRAWINGS FOR WORK OUTSIDE OF ELECTRICAL DIVISIONS. INFORMATION CONVEYED WITHIN THE ELECTRICAL DRAWINGS ILLUSTRATING OR REFERENCING WORK OF OTHER DIVISIONS IS FOR REFERENCE ONLY. SPECIFICATION BY THE APPROPRIATE DIVISIONS SHALL APPLY.
4. GENERAL NOTES ARE SHOWN ON SHEETS MOST RELEVANT TO SPECIFIC NOTE; HOWEVER, GENERAL NOTES ON EACH SHEET SHALL APPLY IN PRACTICE TO ALL ELECTRICAL DRAWINGS.
5. NOT ALL COMPONENTS OF THE ELECTRICAL SYSTEMS ARE SHOWN (FOR SIMPLICITY). PROVIDE MATERIALS AND LABOR NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
6. STAINLESS STEEL HARDWARE: MATERIALS USED FOR THE MOUNTING AND SUPPORT OF BOXES CABLES, RACEWAYS, LIGHT FIXTURES, OUTLETS, AND OTHER DIVISION 16 EQUIPMENT, ARE RECOMMENDED TO BE 316 STAINLESS STEEL. THIS RECOMMENDATION APPLIES TO THE AFOREMENTIONED COMPONENTS WHEN INSTALLED OUTSIDE ABOVE GRADE OR WHEN INSTALLED OVER WATER (ABUTMENT & FLOATING DOCKS).
7. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. EXACT LOCATIONS OF ELECTRICAL EQUIPMENT IS APPROXIMATE. CHANGES MADE BY THE OWNER IN LOCATING ELECTRICAL COMPONENTS OF UP TO TEN FEET HORIZONTALLY MAY BE MADE WITHOUT APPROVAL OF ENGINEER.
8. COORDINATE LOCATIONS OF ELECTRICAL AND COMMUNICATION CHASES AND CONDUITS WITH OTHER TRADES. ADJUST LOCATIONS AS NECESSARY TO AVOID CONFLICTS.
9. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS.
10. SCOPE OF WORK: THE SCOPE OF ELECTRICAL WORK FOR THIS PROJECT INCLUDES THE FOLLOWING:
 - A. PERMITS: GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL GOVERNMENT TAXES, FEES AND OTHER COSTS IN CONNECTION WITH THIS WORK. OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION OF THE WORK AND DELIVER SAME TO THE ENGINEER AT THE TIME OF SUBSTANTIAL COMPLETION AND BEFORE REQUEST FOR FINAL PAYMENT.
 - B. DEMOLITION: REMOVE AND DISPOSE OF EXISTING ELECTRICAL SYSTEMS AND EQUIPMENT IDENTIFIED FOR DEMOLITION. MAINTAIN EXISTING ELECTRICAL SYSTEMS TO REMAIN. OBTAIN PERMISSION FROM OWNER FOR INTERRUPTION IN ELECTRICAL SERVICE (14) WORKING DAYS IN ADVANCE OF DESIRED OUTAGE DATE. LIMIT OUTAGE TO (3) WORKING DAYS FOR SERVICE CHANGE.
 - C. ELECTRICAL SERVICE: PROVIDE ELECTRICAL SERVICE PANEL AS SHOWN. RECONNECT EXISTING PUD SERVICE CONDUCTORS TO SERVICE PANEL. CONTACT, SCHEDULE, AND COORDINATE, WITH PUD FOR SERVICE CHANGE. PROVIDE RACEWAYS, SUPPORTS, AND OTHER ELECTRICAL MATERIALS, REQUIRED BY THE PUD.
 - D. DOCKS 2, 3, & 4: PROVIDE ELECTRICAL FEEDER(S) FROM SERVICE PANEL TO DISTRIBUTION PANELS AT THE HEAD OF DOCK(S). PROVIDE SHORE POWER PEDESTALS AND ELECTRICAL FEEDERS. DOCK 2 SCOPE OF WORK INCLUDES LIGHTS ON GANGWAY.

 <p>PND ENGINEERS, INC.</p>	<p>3240 Eastlake Avenue E Seattle, Washington 98102 P: 206.624.1387 www.pndengineers.com</p>	 <p>HARBOR POWER ENGINEERS, INC.</p> <p><small>ELECTRICAL ENGINEERING FOR COASTAL & WATERFRONT FACILITIES</small></p>	<p>PM: ED DAVID, PE</p>	<p>TEL: 206.855.4600</p>
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	REVISIONS			PROJECT: DEPOE BAY FLOATS 2-4 REPLACEMENT		
				TITLE: SYMBOLS & ABBREVIATIONS		
				DESIGNED BY: EJD PROJECT NO: 224017 SHEET NO:		
				DRAWN BY: KDD DATE: SEPTEMBER 2022		
	REV	DATE	DESCRIPTION	CHECKED BY: SCALE:		
				E0.00		

ELECTRICAL LEGEND											
FIRE ALARM SYSTEM			LIGHTING			POWER DEVICES			WIRING		
SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION	
	FIRE ALARM CONTROL PANEL			FLUORESCENT RECESSED LUMINAIRE (REFER TO LUMINAIRE SCHEDULE FOR TYPE)			SIMPLEX RECEPTACLE - WALL, CEILING, FLOOR			CONDUIT CONCEALED IN CEILING OR WALL. LINE WEIGHT TOP TO BOTTOM = NEW, EXISTING TO REMAIN.	
	FIRE ALARM REMOTE ANNUNCIATOR			FLUORESCENT SURFACE MOUNTED LUMINAIRE (REFER TO LUMINAIRE SCHEDULE)			DUPLEX RECEPTACLE - WALL, CEILING, FLOOR			CONDUIT CONCEALED IN OR BELOW CONCRETE UNDER GRADE, UNDER PIER, IN CEILING SPACE OF FLOOR BELOW. LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING TO REMAIN.	
	FIRE ALARM SYSTEM MANUAL PULL STATION, WALL MOUNTED			SHADING OF ANY LUMINAIRE INDICATES CONNECTION TO EMERGENCY CIRCUIT.			DOUBLE DUPLEX RECEPTACLE - WALL, CLG, FLOOR			CONDUIT EXPOSED. LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING TO REMAIN.	
	SPEAKER - CEILING, WALL MOUNTED			HID FIXTURE			DUPLEX RECEPTACLE AT SPECIAL HEIGHT			EXISTING CONDUIT & WIRING TO BE REMOVED	
	STROBE, WALL MOUNTED (X = CANDELA RATING)			LIGHTED BOLLARD OR DOWNLIGHT (INTERIOR SPACES)			DOUBLE DUPLEX RECEPTACLE AT SPECIAL HEIGHT			COMMUNICATION CONDUIT / CABLE	
	COMBINATION SPEAKER/STROBE, WALL MOUNTED (X = CANDELA RATING)			FLOOR OR GRADE MOUNTED FIXTURE			DUPLEX RECEPTACLE - WALL - DEDICATED			MEDIUM VOLTAGE CONDUIT	
	SPRINKLER VALVE TAMPER SWITCH LOCATION			WALL WASH - SURFACE, RECESSED CEILING MOUNT			DUPLEX RECEPTACLE - WALL - HALF SWITCHED			LOW VOLTAGE CONDUCTORS	
	SPRINKLER FLOW SWITCH CONNECTION			TRACK LIGHTING WITH HEADS AS INDICATED.			DUPLEX RECEPTACLE - WALL - ABOVE COUNTER/ BACKSPASH. SEE ARCHITECTURAL DRAWINGS.			GROUNDING GRID OR CONDUCTORS	
	SMOKE DETECTOR, CEILING OR PLENUM MOUNTED, PHOTOELECTRIC TYPE UON			FLUORESCENT STRIPLIGHT - POWER FEED SECTION, FEED THOUGH SECTION, LENGTH AS SHOWN.			DUPLEX RECEPTACLE - WALL - WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER			CABLE TV WIRE / CONDUIT	
	SMOKE SENSOR, DUCT MOUNTED, WITH SAMPLING TUBES, PHOTOELECTRIC TYPE UON			FLUORESCENT WALL BRACKET - RESTROOM			DUPLEX RECEPTACLE W/ WEATHERPROOF COVER			AERIAL CONDUCTOR(S)OVERHEAD LINE	
	ELECTROMAGNETIC DOOR HOLDER, WALL MOUNTED			STEP LIGHT FIXTURE			SPECIAL PURPOSE RECEPTACLE- WALL , CEILING NEMA CONFIGURATION AS NOTED			STROKES INDICATE QUANTITY OF #12 AWG. CONDUCTORS, UON. NOTE: NOT ALL WIRING IS SHOWN ON DRAWING. CONTRACTOR SHALL SCHEDULE OR STANDARD WIRING PRACTICES FOR BRANCH CIRCUITS.	
	FIREMAN'S PHONE JACK, WALL MOUNTED			ADA APPROVED WALL SCONCE			ELECTRICAL EQUIPMENT CONNECTION, PROVIDE #10 AWG NEUTRALS. USE LIQUID-TIGHT FLEX.			GROUND	
	FIREMAN'S PHONE HAND SET, WALL MOUNTED			ILLUMINATED EXIT SIGN, SHADED QUADRANT INDICATES FACES, ARROW AS SHOWN			PEDESTAL FLOOR DEVICE - DEVICE TYPES PER SYMBOLS SHOWN.			HOT	
	FIRE ALARM CONNECTION TO COMBINATION FIRE/SMOKE DAMPER			POLE MOUNTED LUMINAIRE			TWO-PIECE SURFACE METAL RACEWAY WITH RECEPTACLE AS NOTED, LENGTH AS INDICATED ON THE DRAWINGS AND WITH ALL FITTINGS AS REQUIRED			GROUND, ISOLATED	
	FLAME DETECTOR (FLICKER DETECTOR)			*FOOT* INDICATES WALL MOUNTED LUMINAIRE			TWO-PIECE SURFACE METAL RACEWAY WITH RECEPTACLE AT 6" O.C. (LENGTH AS INDICATED).			NEUTRAL	
	LIGHT (LIGHT, SIGNAL LIGHT, INDICATOR LAMP, STROBE)			FIXTURE TYPE IDENTIFICATION DESIGNATION			TELE/POWER POLE, POWER POLE			HOME RUN TO INDICATED DESTINATION, 3/4". MIN. UON	
	HEAT DETECTOR, CEILING MOUNTED, RATE OF RISE AND FIXED TEMPERATURE TYPE, UON			BATTERY POWER EMERGENCY UNIT EQUIPMENT (SEE SCHEDULE FOR QUANTITY OF HEADS) - WALL, CEILING MOUNTED.			COURTSET PHONE WITH ENCLOSURE			CONDUIT RUN TURNED UP THROUGH FLOOR OR CEILING. CORE AS REQUIRED.	
	HEAT DETECTOR - FIXED TEMP. ONLY										

DESIGNED BY:	EJD	PROJECT NO:	224017	SHEET NO: E0.00
DRAWN BY:	KDD	DATE:	SEPTEMBER 2022	
CHECKED BY:		SCALE:		



SINGLE LINE WIRING DIAGRAM - EXISTING

COPPER FEEDER SCHEDULE

CONDUIT AND WIRE							PORTABLE POWER CABLE			
FEEDER TAG	CONDUITS (REMARKS 1,4)			CONDUCTOR PER SET		REMARKS	FEEDER TAG	'X' INDICATES NUMBER OF CONDUCTORS PER FEEDER CABLE (EXCLUDING GROUND CONDUCTORS). SEE REMARKS 2.		
	MET	SETS	RNC	PHASE/NEUTRAL	GROUND (REMARK 5)			APPROX. O.D. (3C/4C)	COND. AWG	REMARKS
800.3	3.00"	3	4.00"	3 #350 KCMIL	—	—	G 20.X		#12	MULTI CONDUCTOR TYPE 'SOW' CORD
700.3	3.00"	4	4.00"	3 #500 KCMIL	#1/0 (SET)	—	G 35.X		#10	MULTI CONDUCTOR TYPE 'SOW' CORD
400.4K	2.50"	2	3.00"	5 #3/0	#2	—	G 50.X	0.95"/1.025"	#8	MULTI CONDUCTOR PORTABLE POWER CABLE
400.4	3.00"	1	4.00"	4 #500 KCMIL	#2	—	G 75.X	1.11"/1.18"	#4	
400.3	3.00"	1	4.00"	3 #500 KCMIL	#2	—	G 100.X	1.3"/1.44"	#2	
350.4	3.50"	1	4.00"	4 #500 KCMIL	#2	—	G 125.X	1.49"/1.62"	#1	
350.3	2.50"	1	4.00"	3 #400 KCMIL	#2	—	G 150.X	1.63"/1.73"	#1/0	
300.4	3.00"	1	4.00"	4 #350 KCMIL	#4	—	G 175.X	1.74"/1.90"	#2/0	
300.3	2.50"	1	3.00"	3 #350 KCMIL	#4	—	G 200.X	1.88"/2.04"	3/0#	
275.4	3.00"	1	4.00"	4 #300 KCMIL	#4	—	G 225.X	1.99"/2.16"	#4/0	
275.3	2.50"	1	3.00"	3 #300 KCMIL	#4	—	G 250.X	2.29"/2.73"	250MCM	
250.4K	3.00"	1	4.00"	5 #250 KCMIL	#4	—	G 300.X	2.62"/3.10"	350MCM	
250.4	2.50"	1	3.00"	3 #250 KCMIL	#4	—	G 400.X	2.96"/3.50"	500MCM	
250.3	2.50"	1	3.00"	3 #250 KCMIL	#4	—				
225.4K	2.50"	1	3.00"	5 #4/0	#4	—				
225.4	2.50"	1	3.00"	4 #4/0	#4	—				
225.3	2.00"	1	2.50"	3 #4/0	#4	—				
200.4K	2.50"	1	3.00"	5 #3/0	#6	—				
200.4	2.00"	1	2.50"	4 #3/0	#6	—				
200.3	2.00"	1	2.50"	3 #3/0	#6	—				
175.4K	2.00"	1	2.50"	5 #2/0	#6	—				
175.4	2.00"	1	2.50"	4 #2/0	#6	—				
175.3	1.50"	1	2.00"	3 #2/0	#6	—				
150.4	1.50"	1	2.00"	4 #1/0	#6	—				
150.3	1.50"	1	2.00"	3 #1/0	#6	—				
125.4	1.50"	1	2.00"	4 #1	#6	—				
125.3	1.25"	1	2.00"	3 #1	#6	—				
110.4K	1.50"	1	2.00"	3 #2, 1 #2/0 -N-	#6	—				
110.4	1.25"	1	2.00"	4 #2	#6	—				
110.3	1.25"	1	2.00"	3 #2	#6	—				
100.4	1.25"	1	2.00"	4 #2	#8	—				
100.3	1.25"	1	2.00"	3 #2	#8	—				
90.4	1.25"	1	2.00"	4 #4	#8	—				
90.3	1.00"	1	1.50"	3 #4	#8	—				
80.4	1.25"	1	1.50"	4 #4	#8	—				
80.3	1.00"	1	1.50"	3 #4	#8	—				
70.4	1.25"	1	2.00"	4 #4	#8	—				
70.3	1.00"	1	1.50"	3 #4	#8	—				
60.4	1.00"	1	1.50"	4 #6	#10	—				
60.3	0.75"	1	1.50"	3 #6	#10	—				
50.4K	1.00"	1	1.50"	3 #8, 1 #4 -N-	#10	—				
50.4	1.00"	1	1.50"	4 #8	#10	—				
50.3	0.75"	1	1.50"	3 #8	#10	—				
40.4	0.75"	1	1.00"	4 #8	#10	—				
40.3	0.75"	1	1.00"	3 #8	#10	—				
30.4	0.75"	1	1.00"	4 #10	#10	—				
30.3	0.75"	1	1.00"	3 #10	#10	—				
20.4	0.75"	1	1.00"	4 #12	#12	—				
20.3	0.75"	1	1.00"	3 #12	#12	—				
15.4	0.75"	1	1.00"	4 #12	#12	—				
15.3	0.75"	1	1.00"	3 #12	#12	—				
X.X	FEEDER TAG SUFFIX (WHEN USED):									
ADJUST FEEDERS BASED ON FEEDER TAG INFORMATION PROVIDED.										

GENERAL SCHEDULE NOTES			
A.	CONDUCTORS AND CONDUITS SHOWN IN THIS SCHEDULE ARE BASED ON COPPER CONDUCTORS WITH THHN/THWN INSULATION. THIS NOTE INDICATES THAT CONDUIT (LISTED IN SCHEDULE) IS SIZED BASED ON TYPE THHN/THWN WIRE. USE WIRE TYPES AS SPECIFIED IN SECTION 16120 OR AS NOTED ELSEWHERE IN THE CONTRACT DOCUMENTS.		
B.	PROVIDE NOTED SIZE GROUND CONDUCTOR IN EACH CONDUIT OF FEEDERS CONSISTING OF MULTIPLE SETS OF CONDUCTORS.		
C.	NOT ALL FEEDERS ARE NECESSARILY USED ON THIS PROJECT.		
D.	NOMINAL AMPACITIES GREATER THAN 100 AMPS ARE FOR 75°C TERMINATIONS.		
E.	FOR FEEDERS SHOWN WITH A ".6" SUFFIX, PROVIDE SIX PHASE CONDUCTORS AND ONE GROUND WIRE IN CODE SIZED CONDUIT. INCLUDE 80% DERATING FACTOR ON PHASE CONDUCTOR SIZE.		
F.	CONDUIT SIZES AND QUANTITIES ON PLANS TAKE PRECEDENCE OVER THOSE SHOWN IN SCHEDULE. PROVIDE CONDUITS INDICATED IN SCHEDULE FOR FEEDERS NOT SHOWN ON PLANS.		
G.	PROVIDE CIRCUIT CONDUCTORS AND RACEWAYS FROM PANELBOARD TO EQUIPMENT WHERE FEEDER TAGS ARE SHOWN ADJACENT TO PANEL SCHEDULES. SEE PLANS FOR EQUIPMENT LOCATIONS.		
SCHEDULE REMARKS			
1.	CABLES NOTED MAY BE USED ONLY WHEN ALLOWED BY CODE AND PROJECT SPECIFICATIONS.		
2.	NEC TABLE 310.15 APPLIES TO TYPE G CABLES UNLESS TERMINATED IN 90-DEGREE C TERMINALS. SEE NEC ARTICLE 110.14(C) FOR FURTHER INFORMATION.		
3.	REFER TO MCC AND PANEL SCHEDULES FOR FEEDER SIZES TO EQUIPMENT NOTED WITH THIS TAG.		
4.	"MET"=EMT, GRC (RIGID), RAC, OR PVC COATED GRC TYPE CONDUITS. "RNC"=PVC 40, PVC 80 OR FIBERGLASS TYPE CONDUITS ROUTED UNDERGROUND. REFER TO SIZING ON DRAWINGS IF "RNC" CONDUITS ARE ROUTED ABOVEGROUND. CONDUIT SIZES NOTED ON SINGLE-LINE DIAGRAM OR ON PLANS SUPERSEDE SIZES NOTED ABOVE IF LARGER.		
5.	PROVIDE GROUND WIRE NOTED BELOW IN ALL FEEDERS AND BRANCH CIRCUITS. MINIMUM GROUNDING SHALL BE PER CODE.		



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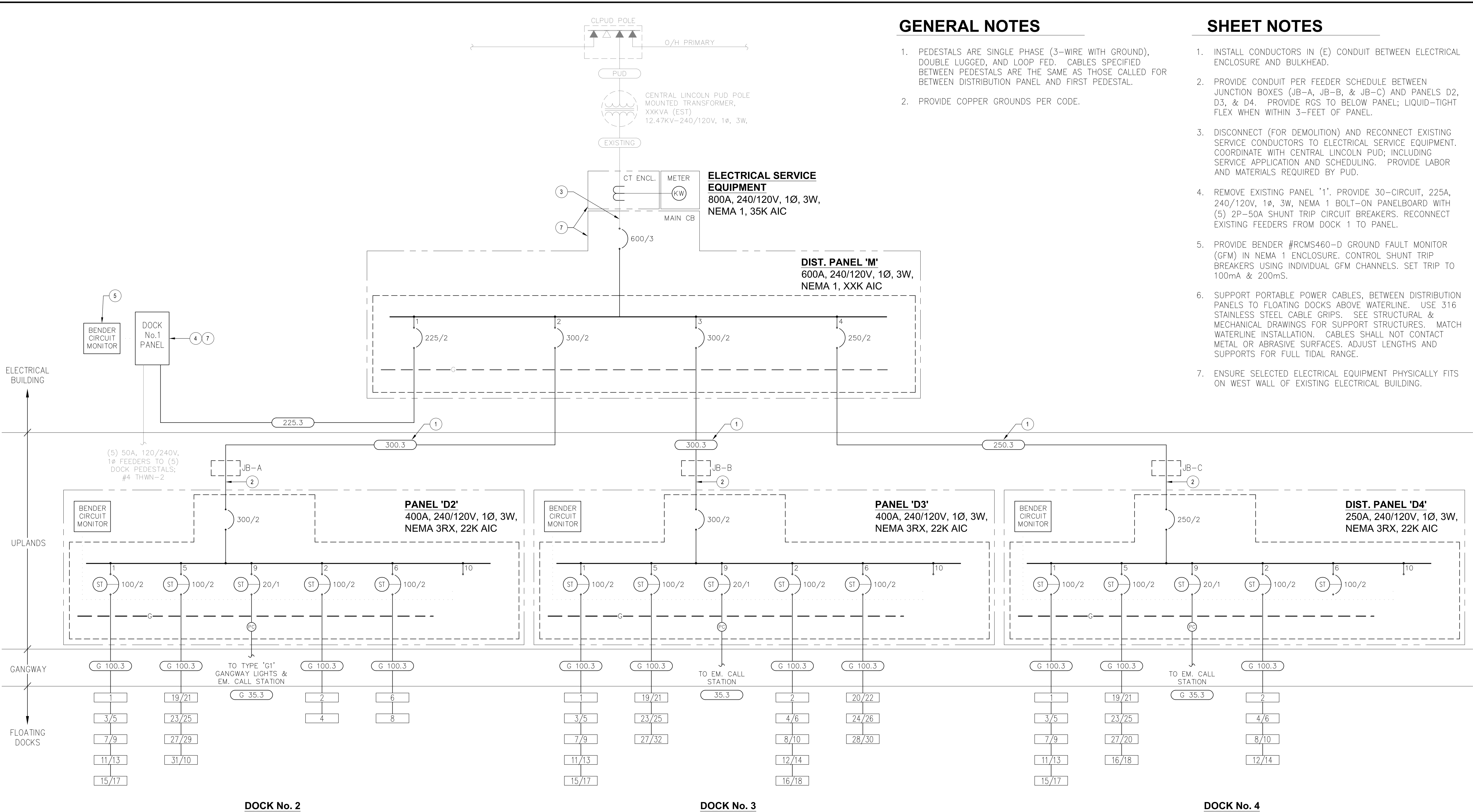


PM: ED DAVID, PE

TEL: 206.855.4600

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SINGLE LINE WIRING DIAGRAM

100% SUBMITTAL



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REVISIONS		
REV	DATE	DESCRIPTION

PROJECT:			DEPOE BAY FLOATS 2-4 REPLACEMENT	
TITLE:			SINGLE LINE WIRING DIAGRAM	
DESIGNED BY:	EJD	PROJECT NO:	224017	SHEET NO:
DRAWN BY:	KDD	DATE:	SEPTEMBER 2022	E1.01
CHECKED BY:		SCALE:		

OVHD SERVICE DROP & WEATHERHEAD

PUD POLE



PHOTO - ELECT. BLDG.



PHOTO - ELECT. PANELS
(EAST WALL OF ELECTRICAL BUILDING)

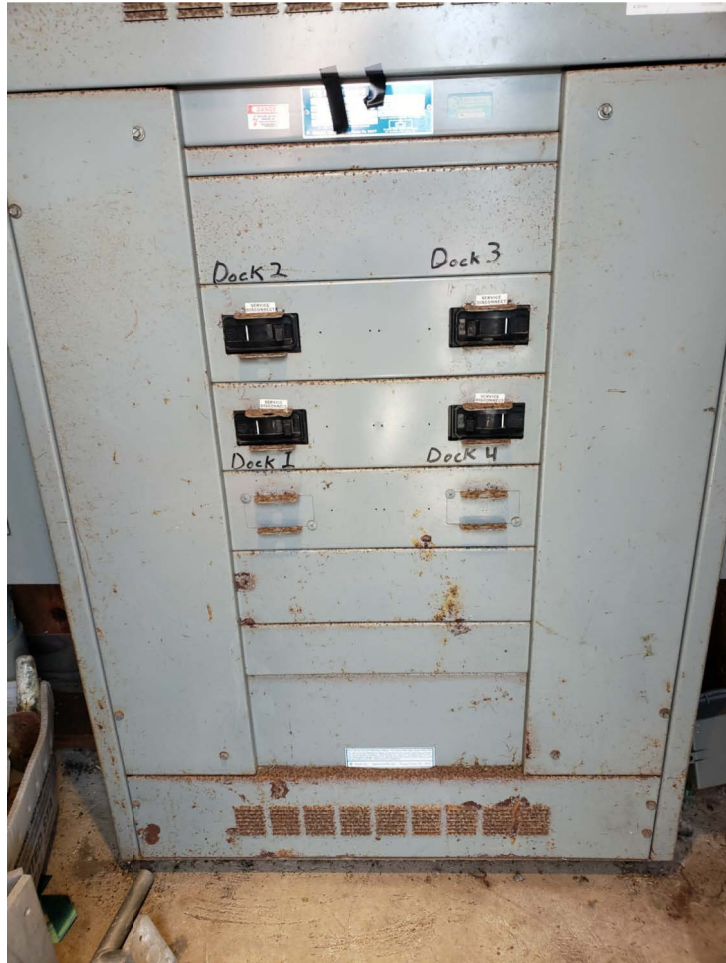


PHOTO - DIST. PANEL 'M'

City of Depoe Bay

Service Panel - Panel 'M'

Circuit Info		Power Pedestal Outlet Information					Power Pedestal Feeder Data					Feeder Info			Voltage Drop Calculation		
Panel	Dock	Recept 30A	Recept 50A 120	Recept 50A 120/240	Recept 100A	Connected Load (kVA)	f per NEC	Meter Factor 1.0 or 0.9	Demand Load (kVA)	Amps 240v 1-phase	Circuit Breaker Size	Feeder Size	ohms per 1000 ft	Amps	Length to Circuit	Voltage Drop (V)	Percent Drop (%) @240V
M	1	20	0	0	0	72.0	0.7	0.9	45.4	189	225				EXISTING CIRCUIT		
M	2	21	0	0	0	75.6	0.7	0.9	47.6	198	300	350	0.050	310	320	4.35	1.81
M	3	30	0	0	0	108.0	0.7	0.9	68.0	284	300	350	0.050	310	100	1.94	0.81
M	4	24	0	0	0	86.4	0.7	0.9	54.4	227	300	350	0.050	310	240	3.73	1.56
Panel Summary		95	0	0	0	342.0	0.3	0.9	92.3	385	400						

Panel 'D2'

Circuit Info		Power Pedestal Outlet Information					Power Pedestal Feeder Data					Feeder Info			Voltage Drop Calculation		
Panel	Circuit	Recept 30A	Recept 50A 120	Recept 50A 120/240	Recept 100A	Connected Load (kVA)	f per NEC	Meter Factor 1.0 or 0.9	Demand Load (kVA)	Amps 240v 1-phase	Circuit Breaker Size	Feeder Size	ohms per 1000 ft	Amps	Length to Circuit	Voltage Drop (V)	Percent Drop (%) @240V
D2	1	9	0	0	0	32.4	0.8	0.9	23.3	97	100	2	0.190	115	100	3.52	1.46
	5	8	0	0	0	28.8	0.9	0.9	23.3	97	100	2	0.190	115	200	7.03	2.93
	9																
	2	2	0	0	0	7.2	1	0.9	6.5	27	100	2	0.190	115	100	0.98	0.41
	6	2	0	0	0	7.2	1	0.9	6.5	27	100	2	0.190	115	250	2.44	1.02
	10																
Panel Summary		21	0	0	0	75.6	0.7	0.9	47.6	198							

Panel 'D3'

Circuit Info		Power Pedestal Outlet Information					Power Pedestal Feeder Data					Feeder Info			Voltage Drop Calculation		
Panel	Circuit	Recept 30A	Recept 50A 120	Recept 50A 120/240	Recept 100A	Connected Load (kVA)	f per NEC	Meter Factor 1.0 or 0.9	Demand Load (kVA)	Amps 240v 1-phase	Circuit Breaker Size	Feeder Size	ohms per 1000 ft	Amps	Length to Circuit	Voltage Drop (V)	Percent Drop (%) @240V
D3	1	9	0	0	0	32.4	0.8	0.9	23.3	97	100	2	0.190	115	50	1.76	0.73
	5	6	0	0	0	21.6	0.9	0.9	17.5	73	100	2	0.190	115	250	6.59	2.75
	9																
	2	9	0	0	0	32.4	0.8	0.9	23.3	97	100	2	0.190	115	50	1.76	0.73
	6	6	0	0	0	21.6	0.9	0.9	17.5	73	100	2	0.190	115	250	6.59	2.75
	10																
Panel Summary		30	0	0	0	108.0	0.7	0.9	68.0	284							

Panel 'D4'

Circuit Info		Power Pedestal Outlet Information					Power Pedestal Feeder Data					Feeder Info			Voltage Drop Calculation		
Panel	Circuit	Recept 30A	Recept 50A 120	Recept 50A 120/240	Recept 100A	Connected Load (kVA)	f per NEC	Meter Factor 1.0 or 0.9	Demand Load (kVA)	Amps 240v 1-phase	Circuit Breaker Size	Feeder Size	ohms per 1000 ft	Amps	Length to Circuit	Voltage Drop (V)	Percent Drop (%) @240V
D4	1	9	0	0	0	32.4	0.8	0.9	23.3	97	100	2	0.190	115	50	1.76	0.73
	5	8	0	0	0	28.8	0.9	0.9	23.3	97	100	2	0.190	115	150	5.27	2.20
	9																
	2	7	0	0	0	25.2	0.9	0.9	20.4	85	100	2	0.190	115	50	1.54	0.64
	6																
	10																
Panel Summary		24	0	0	0	86.4	0.7	0.9	54.4	227							

LOAD CALCULATIONS

100% SUBMITTAL

DEPOE BAY FLOATS
2-4 REPLACEMENT

ELECTRICAL CALCULATIONS

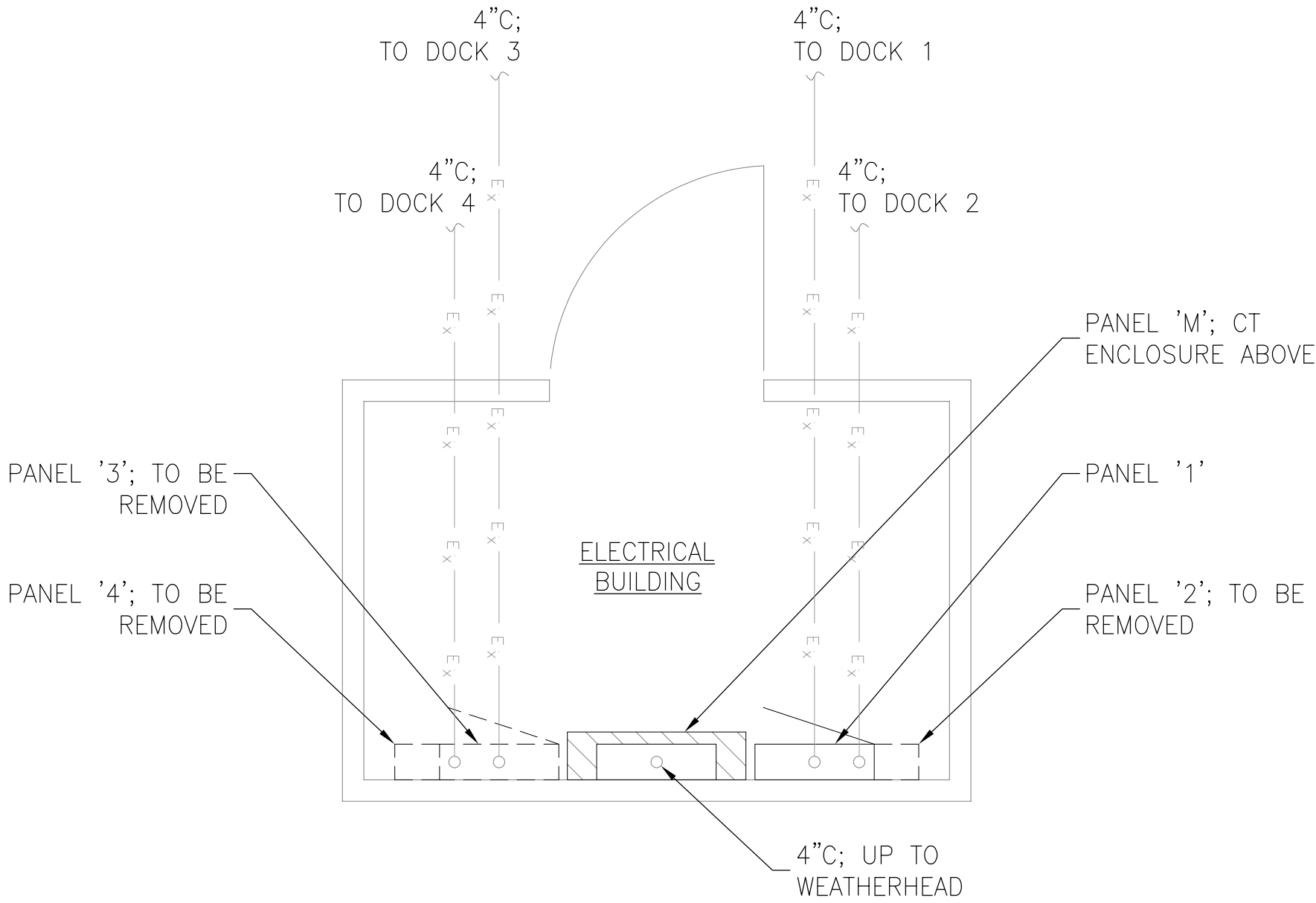
DESIGNED BY:	EJD	PROJECT NO:	224017	SHEET NO:	E1.02
DRAWN BY:	KDD	DATE:	SEPTEMBER 2022		
CHECKED BY:		SCALE:			



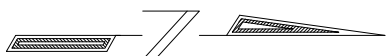
PHOTO - (E) BULKHEAD



PHOTO - (E) CABLE CATENARY



ENLARGED ELECTRICAL BUILDING PLAN



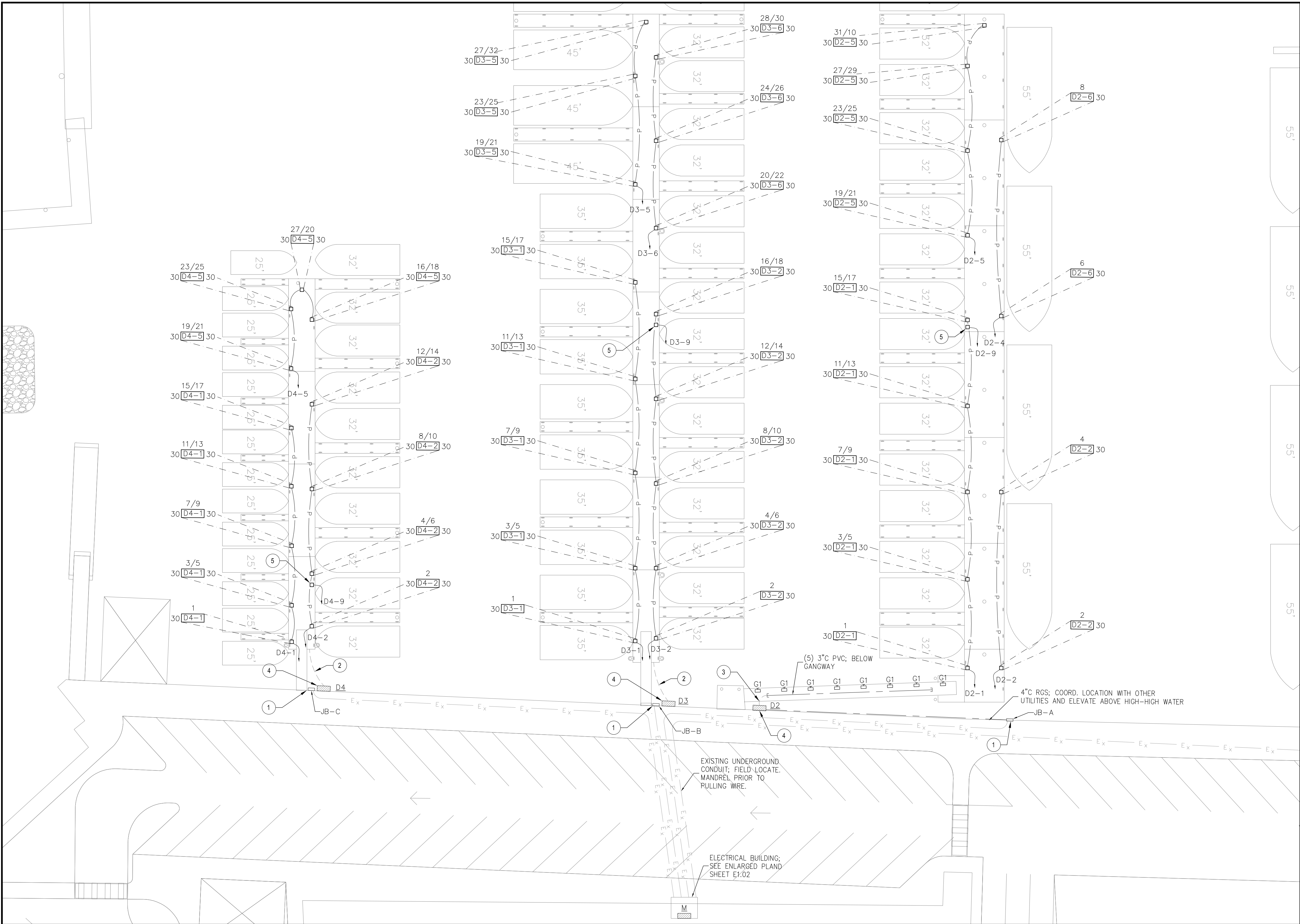
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TEL: 206.855.4600

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ELECTRICAL PLAN

0 5 10 20 40 60 FT.



GENERAL NOTES

1. INSTALL PORTABLE POWER CABLE IN PVC CHASES WHERE ABOVE DECK HEIGHT OR WHERE EXPOSED TO PHYSICAL DAMAGE.
2. INSTALL PORTABLE POWER CABLES IN CENTER DOCK CHASE (BELOW GRATING). SEE CABLE INSTALLATION PHOTO; SHEET E3.0. PORTABLE POWER CABLE SHALL NOT COME IN CONTACT WITH ABRASIVE OR METALLIC SURFACES.
3. SEE STRUCTURAL DRAWINGS FOR EXACT LOCATIONS OF SHORE POWER PEDESTALS AND LIGHT FIXTURES.

SHEET NOTES

1. MOUNT 316 SS JUNCTION BOX OVER (E) CONDUIT STUB-OUT ON WEST FACE OF BULKHEAD. BOX SIZE PER NEC. CUT AND THREAD EXISTING CONDUIT STUB-OUT TO ACCEPT BOX MOUNTED TO FACE OF BULKHEAD. MOUNT BOX USING 316 SS STRUT. ANCHORS PER STRUCTURAL/MECHANICAL SPECIFICATIONS.
2. PORTABLE POWER CABLE CATENARY FROM PANEL TO FLOATING DOCK. SUPPORT ABOVE WATERLINE.
3. PORTABLE POWER CABLE CATENARY FROM PANEL TO BELOW GANGWAY. INSTALL CABLES IN PVC CHASES BELOW GANGWAY.
4. INSTALL FREE-STANDING DISTRIBUTION PANEL TO STRUCTURAL SUPPORT. SEE SHEET S7.01. CABLE AND CONDUIT ENTRY/EXIT THROUGH BOTTOM OF PANEL.
5. EMERGENCY CALL STATION PEDESTAL (120V/1Ø). COORDINATE LOCATION WITH MECHANICAL; SEE M-SERIES DRAWINGS.

LEGEND

- SHORE POWER PEDESTAL
V = VOLTAGE (WHEN USED)
W = SLIP NUMBER(S) SERVED
X = 30 = 30A,120V OUTLET
X = 50 = 50A,120/240V OUTLET
X = 100 = 100A,120/240V OUTLET
Y = UNIT SUBSTATION OR DISTRIBUTION PANEL
Z = CIRCUIT NUMBER
- NOTE: 'X' DESIGNATES OUTLET PER SLIP. (i.e. 30/50) INDICATES MULTIPLE OUTLETS PER SLIP. APPROXIMATE PEDESTAL PLACEMENT LOCATION
- ELECTRICAL PANEL OR EQUIPMENT
- ELECTRICAL FEEDER; SEE SINGLE LINE WIRING DIAGRAM
- ELECTRICAL FEEDER (EXISTING); SEE SINGLE LINE WIRING DIAGRAM

100% SUBMITTAL

DEPOE BAY FLOATS 2-4 REPLACEMENT

ELECTRICAL PLAN

PROJECT:			
TITLE:			
DESIGNED BY:	EJD	PROJECT NO:	224017
DRAWN BY:	KDD	DATE:	SEPTEMBER 2022
CHECKED BY:		SCALE:	
SHEET NO:		E2.00	



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Lighthouse - SS

Power Pedestal

The Lighthouse-SS offers the same standard features and available options as the standard Lighthouse. But, like all of the stainless steel products manufactured here, the Lighthouse-SS is made with high quality 316L stainless steel for superior quality and performance.



Above: Lighthouse - SS Power Pedestal



Lighthouse - SS Base Diagram



10

EATON CORPORATION Marine Power Equipment

www.marinepower.com

1-800-723-8008

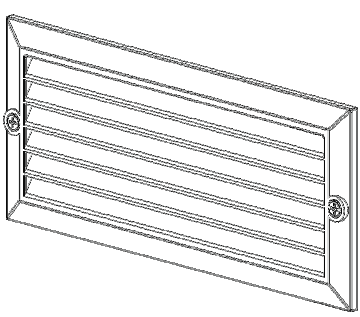
SHORE POWER PEDESTAL (TYP)

STEPS

TJSL - Wall Mount

STANDARD FEATURES

- Die-cast aluminum louvered faceplate
- Frosted tempered glass lens
- Zinc coated, formed steel back box post painted with polyester powder coat
- Back box housing can be recessed into concrete or non-insulated wall
- Approved for through wiring
- Die-cast aluminum fixture body and ballast housing recessed into back box
- Faceplates and louvers standard finish in white polyester powder coat



Wall mount luminaire

UL Listed to applicable CSA and UL standards

ORDERING CODE GUIDE

SERIES	MODEL	LAMP	VOLT	COLOR	OPTIONS
TJSL	3000	ICQD70 PLD3 PLD8 PLD18 PLD24 LED	120 277 347	TEXTURED FINISHES UL = textured aluminum TBC = textured black TSC = textured chrome TWH = textured white	NUU = no lower face plate OPR = opal polycarbonate lens

SMOOTH FINISHES

AL = aluminum
SK = steel
OF = outdoor yellow
OSF = dark chrome
OO = deep orange
EG = emerald green
IS = imperial blue
PR = light red
WH = white

RAL colors available

Note:
● 120V only

1 800 441 1771 F 708 422 3341 www.paceillumination.com

PACE

TYPE 'G1' GANGWAY LIGHT

Rubber Cord

Cord & Cordset

Carolprene® Jacketed Type S00W/SJ00W

90°C 600 Volt UL/CSA Portable Cord

Product Construction:

Conductors:

- 18 through 10 AWG fully annealed stranded bare copper per ASTM B-174

Insulation:

- Premium-grade, color-coded 60°C EPDM
- Color code: See chart below

Jacket:

- Value
- Temperature range: -40°C to +80°C

Jacket Marking:

- CAROL, 90°C 600V UL/CSA WATER-RESISTANT S00W/SJ00W CSA 14749C (Type II) 100000 MSHA - MADE IN USA 600 VOLT

Applications:

- Portable tools and equipment
- Portable appliances
- Small motors and associated machinery
- Food processing plants and equipment
- Manufacturing
- Shipyards
- OSHA VPP safety
- Construction site power
- Industrial plants
- Mining

Features:

- Excellent resistance to oil and moisture
- Good tensile strength, elongation and aging characteristics
- High flexibility
- Excellent abrasion resistance
- Water-resistant
- UL Listed and CSA certified for indoor and outdoor use
- Ozone-sunlight (UV) and weather-resistant

Industry Approvals:

- UL Flexible Cord
- CSA Flexible Cord
- MSHA Approved
- Rohs Compliant

Packaging:

- 250' (76.2m) 100' (30.48m)
- Other pick-ups available on special order

COLOR CODE CHART

NO. OF CONDUCTORS	COLOR
3	Black, White, Green
4	Black, White, Red, Green

General Cable

Rohs Compliant

MSHA

UL LISTED

CAROL BRAND

11


PORTABLE POWER CABLE

CABLE INSTALLATION PHOTO

Panels

Distribution Equipment

One of the many products we can offer our customers are the Cutler-Hammer PRL3A & PRL4 panels as stand alone units or in one of our substations. All of our buses are made of copper and are load rated, breakers are bolt-on type. Distribution panels can be 120/240V single-phase, 120/208V three-phase, 277/480V three-phase, or 220V/127V three-phase based on your system requirements. Distribution panels can also have a main breaker or a main lug. Branch circuit breakers are provided based on customer requirements.



www.marinepower.com

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Marine Power Equipment EATON CORPORATION

27

DOCK PANEL (TYP)

36" 120V CALL STATION
CELLULAR BEACON—
STROBE WITH PHOTOCELL.
RATH SECURITY
MODEL #2100—CPC3;
WITH MARINE KIT, OR
APPROVED EQUAL

PRODUCT OVERVIEW

- 36" H x 10-1/2" W x 8"D
- Calls up to 5 phone numbers
- Remote or on-site programmable
- Location message
- Recessed illuminated faceplate
- Call assurance LED
- Blue strobe
- White powder coating with blue lettering
- Aluminum enclosure
- ADA compliant
- 2 year warranty
- Mass Notification speaker housing

- Cameras
- Two button speakerphone
- Laser engraved face plates
- Emergency button cover
- Siren
- Amber or red strobe
- Step-down power transformer
- Marine upgrade kit
- Pole mount bracket
- Custom Pantone color matching
- EMERGENCY reflective label color options
- Custom lettering

EMERGENCY CALL STATION

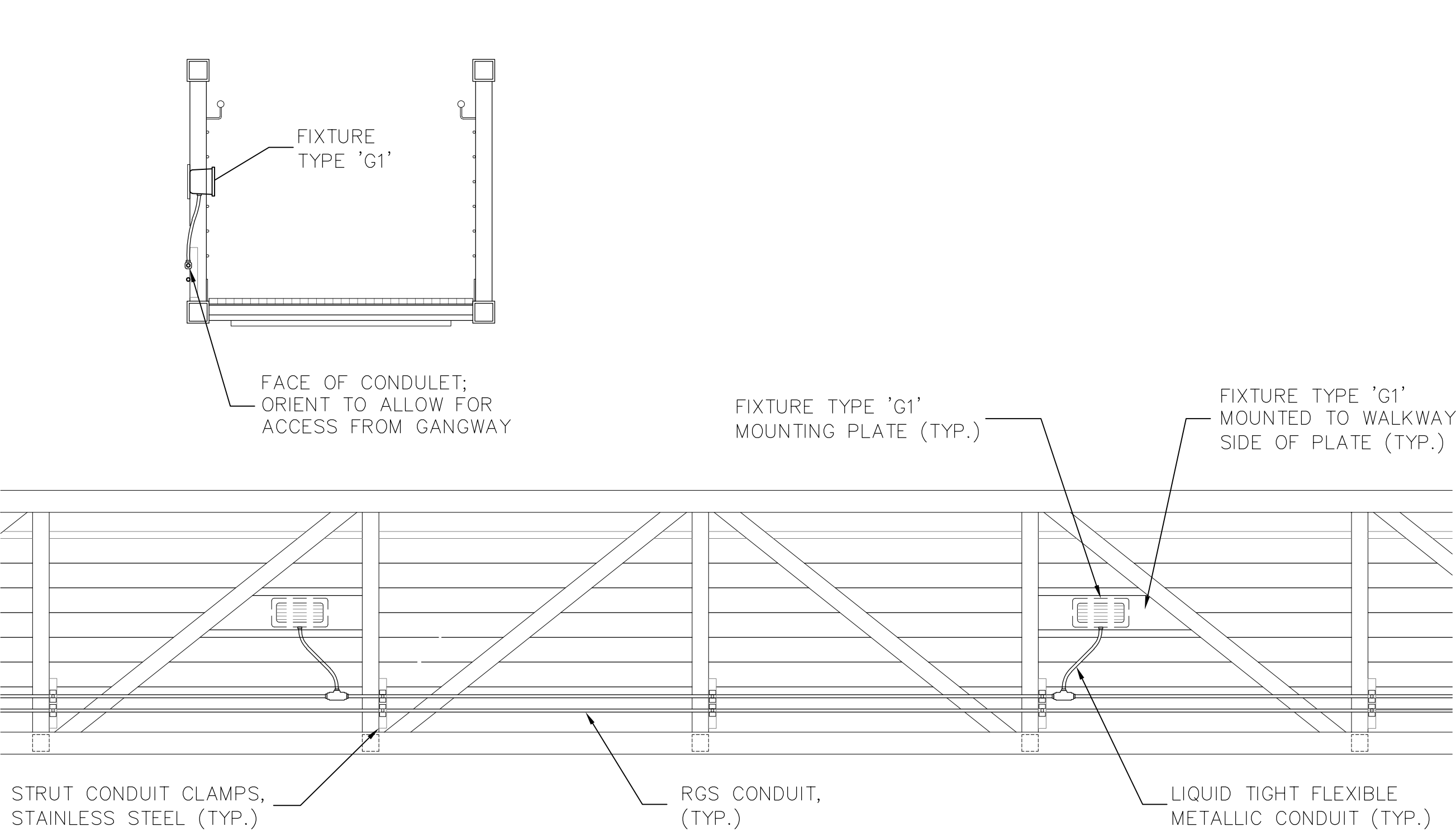


Diagram illustrating the mounting detail for a Gangway Light. The diagram shows a cross-section of a walkway with a metal grating floor. A fixture, labeled 'FIXTURE TYPE 'G1'', is mounted to the walkway side of a mounting plate. The mounting plate is secured with 'STRUT CONDUIT CLAMPS, STAINLESS STEEL (TYP.)'. The fixture is connected to a 'RGS CONDUIT, (TYP.)' which runs along the side of the walkway. The conduit is connected to a 'LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (TYP.)' which runs through the grating. The diagram also shows the 'FACE OF CONDULET; ORIENT TO ALLOW FOR ACCESS FROM GANGWAY' and 'FIXTURE TYPE 'G1' MOUNTING PLATE (TYP.)'.

GANGWAY LIGHT MOUNTING DETAIL

100% SUBMITTAL


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N

D

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REVISIONS

REV	DATE	DESCRIPTION

PROJECT:

DEPOE BAY FLOATS
2-4 REPLACEMENT

TITLE:

ELECTRICAL PRODUCT INFORMATION & DETAILS

DESIGNED BY: EJD

PROJECT NO: 224017

SHEET NO:

E3.00

DRAWN BY: KDD

DATE: SEPTEMBER 2022

CHECKED BY:

SCALE: