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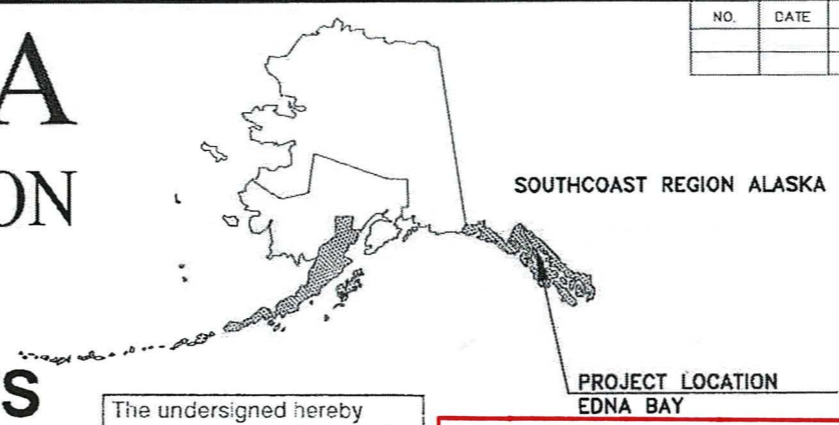
NO.	DATE	REVISIONS	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HHARB0012	2020	001	33

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

EDNA BAY HARBOR IMPROVEMENTS

PROJECT NO. HHARB0012

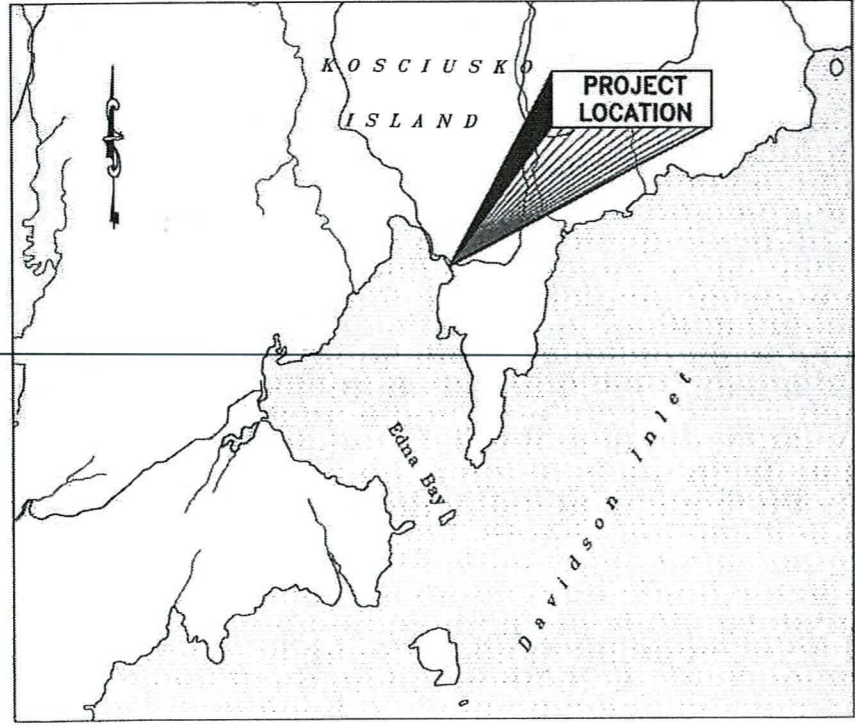
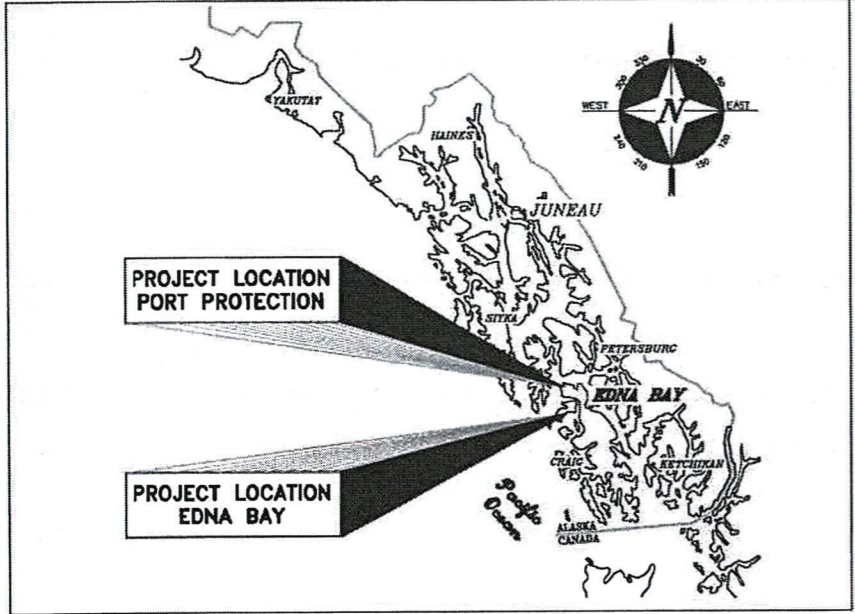


The undersigned hereby certifies that this duplicated document is an exact and true copy of the original.
Jessica Dukale

March 31, 2021

AS-BUILTS
 Contractor: Western Dock & Bridge, LLC
 Project Engineer: Raphael Betit
 Begin Date: May 10, 2021
 End Date: June 24, 2021

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TIDAL DATA	
HTL	+13.8'
MHW	+10.8'
MLLW	0.0'
ELW	-3.5'

USE THESE PLANS IN CONJUNCTION WITH THE STATE OF ALASKA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2017 EDITION AND THE PROJECT SPECIAL PROVISIONS.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

APPROVED: *[Signature]* 3/3/20
 KIRK MILLER, P.E.
 REGIONAL PRECONSTRUCTION ENGINEER
 DATE

CONCUR: *[Signature]* 03 MAR 2020
 D. LANCE MEARIG, P.E.
 DIRECTOR, SOUTHCOAST REGION
 DATE

GENERAL NOTES

OTHER INFORMATION

1. REFERENCE AS-BUILT DRAWINGS FOR EXISTING TIMBER FLOAT SYSTEM AND GANGWAY DETAILS NOT SHOWN

MATERIALS

STEEL:
 HSS- ASTM A500 GRADE B
 PILING- ASTM A252 GRADE 3 OR EQUAL, STRAIGHT SEAM
 PIPE- ASTM A53, GRADE B, TYPE E OR S
 SHAPES- ASTM A572 GRADE 50
 PLATES- ASTM A36, UNLESS OTHERWISE NOTED

STAINLESS- ASTM A276 TYPE 316

PILE TIPS- APF-0-14000 OR APF 0-14001 DRIVE SHOES OR APPROVED EQUAL. DRIVE SHOES ARE REQUIRED ON ALL PILING.

COATINGS- ALL STEEL FABRICATION & HARDWARE SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN CONFORMANCE WITH ASTM A123 AND A153.

ALUMINUM:
 SHAPES- ASTM 6061-T6
 PLATES- ASTM 5068 H112
 COATINGS- TRANSITION PLATES TO BE COATED WITH NON-SKID COATING PER SECTION 504 OF SPECIFICATIONS.

BOLTS AND FASTENERS:

STEEL-TO-STEEL: ASTM A325
 TIMBER-TO-STEEL: ASTM A307
 TIMBER-TO-TIMBER: ASTM A307

TIMBER:

SAWN TIMBER SHALL BE DOUGLAS FIR NO. 1 OR BETTER PER WCLIB/WVPA GRADING RULES. SAWN TIMBER DECKING SHALL BE DOUGLAS FIR, SELECTED GRADE PER WVPA GRADING RULES. ALL SAWN TIMBER SHALL BE S4S EXCEPT DECKING (MILLED S12S3)

GLULAM MEMBERS SHALL BE DF/DF, COMBINATION 24F-V8

UHMW:

ULTRA HIGH MOLECULAR WEIGHT PLASTIC (UHMW) TO BE MADE FROM MATERIALS CONFORMING TO ASTM D4020, COLOR TO BE BLACK UNLESS OTHERWISE NOTED.

WELDING

ALL WELDING TO BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS D1.1 OR AWS D1.2.

TIMBER TREATMENT

SAWN TIMBER BELOW DECK AND SUBDECK - CREOSOTE, 20 PCF RETENTION.

GLULAM TIMBER BELOW DECK AND SUBDECK - CREOSOTE, 12 PCF RETENTION.

GLULAM SUBDECK PANELS - COPPER NAPHTHENATE, 0.06 PCF RETENTION.

DECKING, BULL RAILS BUMPER BOARDS - ACZA, 0.60 PCF RETENTION.

CUT ALL MEMBERS TO LENGTH AND DRILL ALL HOLES/COUNTERBORING PRIOR TO PRESSURE TREATMENT. TREAT ALL FIELD DRILLED HOLES AND CUTS PER AWPA M4.

TIMBER FLOAT SYSTEM

ALL FABRICATION AND CONNECTION DETAILS MAY NOT BE SHOWN. PROVIDE DETAILED SHOP DRAWINGS SHOWING ALL MEMBERS AND FABRICATION SEQUENCE.

ALL FASTENERS SHALL BE HOT-DIP GALVANIZED OR STAINLESS STEEL, TYPE 316 AS NOTED ON THE PLANS. DECK SCREWS SHALL BE SQUARE DRIVE HEAD, TYPE 316. WHERE NAILING IS SPECIFIED, USE HOT-DIP GALVANIZED HAND DRIVEN NAILS. MACHINE OR POWER DRIVEN NAILS WILL NOT BE PERMITTED.

ALL TIMBER BOLTS ARE ECONOMY HEAD TYPE WITH LUGS AND M.I. WASHERS, UNLESS OTHERWISE NOTED. PROVIDE DOUBLE NUTS OR JAM NUTS WHERE NOTED ON THE PLANS.

MINIMUM BUMPER BOARD LENGTH IS 10'-0" UON. BUTT SPLICE OVER ENDS OF SILLS ONLY. SECURE BUMPER BOARDS WITH #12 X 4" L SS DECK SCREWS SPACED AT 12" OC, STAGGERED ROW (12" APART TOP & BOTTOM) AND 2 SCREWS AT EACH END. PREDRILL PILOT HOLE TO PREVENT SPLITTING.

DECKING SHALL BE SPACED 1/8" APART AND SECURED TO EACH STRINGER WITH 2 EA #12 X 4" L SS DECK SCREWS. PREDRILL ALL LOCATIONS AND ENDS WHERE SPLITTING MAY OCCUR. CTSK FLUSH OR JUST BELOW DECK SURFACE.

COUNTERBORE FOR ALL BOLT HEADS FACING DECKING OR OTHERWISE NOTED TO BE FLUSH.

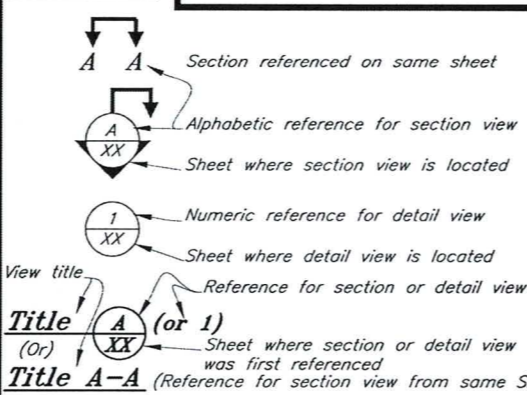
CONSTRUCTION LIMITATIONS / PHASING:

- BOATS WILL BE REMOVED BY THE COMMUNITY PRIOR TO SCHEDULED START OF DEMOLITION WORK. PROVIDE ADVANCE NOTICE TO THE CITY OF EDNA PRIOR TO DEMOLITION OR REMOVAL. REFERENCE SECTION 202 OF SPECIFICATIONS.
- REMOVAL OF EXISTING FLOATS IS NOT PERMITTED UNTIL ALL MATERIALS AND EQUIPMENT NEEDED TO EXECUTE THE WORK IS ON SITE.
- PLACE NEW GANGWAY FLOAT, INSTALL SALVAGED SEAPLANE FLOAT AND RESTORE GANGWAY OPERATION PRIOR TO COMPLETING OTHER ELEMENTS OF WORK. SCHEDULED SEAPLANE SERVICE TO THE NEW SEAPLANE FLOAT LOCATION WILL BE ESTABLISHED AT EARLIEST OPPORTUNITY. THE DEPARTMENT WILL PROVIDE NOTICE OF SUBSTANTIAL COMPLETION FOR THESE ELEMENTS OF WORK IN ORDER TO ALLOW PUBLIC USE OF THE SEAPLANE FACILITY AND GANGWAY WHILE OTHER WORK IS ONGOING.
- REFERENCE APPENDIX B OF THE SPECIFICATIONS FOR PILE DRIVING TIMING RESTRICTIONS AND MARINE MAMMAL MONITORING REQUIREMENTS.

ABBREVIATIONS:

ALUM- ALUMINUM
 CTSK- COUNTER SINK
 DF- DOUGLAS FIR
 ECON HD- ECONOMY HEAD
 ELEV- ELEVATION
 EXT- EXTERIOR
 GALV- GALVANIZED
 GL- GLUE LAMINATED
 GR- GRADE
 HSS- HOLLOW STRUCTURAL SECTION
 MI- MALLEABLE IRON
 MISC- MISCELLANEOUS
 OC- ON CENTER
 PL- PLATE
 SS- STAINLESS STEEL
 TYP- TYPICAL
 UHMW- ULTRA HIGH MOLECULAR WEIGHT
 UON- UNLESS OTHERWISE NOTED

LEGEND



PILE DATA

#	PILE ID NO.	PILE SIZE	NEW OR SALVAGED	LOCATION	APPROX MUDLINE ELEVATION	ESTIMATED PENETRATION (FT)	ESTIMATED TIP ELEV.	CUTOFF ELEV.	LENGTH (FT)	NO. REQ'D
1-2	16" x 1/2"	NEW	GANGWAY FLOAT	-8	22	-30	26	56	2	
3	16" x 1/2"	NEW	GANGWAY FLOAT	-10	20	-30	26	56	1	
4-7	16" x 1/2"	NEW	10' x 125' FLOAT	-16	18	-34	26	60	4	
8	16" x 1/2"	NEW	10' x 125' FLOAT	-12	22	-34	26	60	1	
9-10	16" x 1/2"	NEW	10' x 150' FLOAT	-10	22	-32	26	58	2	
11-13	16" x 1/2"	NEW	10' x 150' FLOAT	-12	20	-32	26	58	3	
14	16" x 1/2"	NEW	10' x 150' FLOAT	-20	20	-40	26	66	1	
15-17	12.75" x 1/2"	NEW	8' x 50' END FLOAT	-30	19	-49	26	75	3	
18-19	16" x 1/2"	NEW	5' x 40' STALL FLOATS	-16	20	-36	26	62	2	
20-22	12.75" x 1/2"	SALVAGED	8' x 75' FLOAT	-16	20	-36	26	62	3	

NOTES:

- DRIVE ALL PILES TO ESTIMATED TIP ELEVATION OR REFUSAL.
- PLACE PILE IN DRILLED ROCK SOCKET FOR ALL PILES WHERE REFUSAL OCCURS PRIOR TO ESTIMATED TIP ELEVATION (EXPECTED ON ALL PILES). REF SHT 215

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ESTIMATE OF QUANTITIES

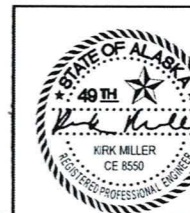
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
202.MF01.0001	REMOVAL OF STRUCTURES AND OBSTRUCTIONS - EDNA BAY	LS	ALL REQ'D
202.MF01.0002	REMOVAL OF STRUCTURES AND OBSTRUCTIONS - PORT PROTECTION, CO3	LS	ALL REQ'D
202.MF10.0001	RELOCATE - SEAPLANE FLOAT	LS	ALL REQ'D
504.MF61.0001	GANGWAY - REFURBISH	LS	ALL REQ'D
504.MF61.0001A	GANGWAY REPRBISH, CO 2	LS	ALL REQ'D
505.MF01.1204	PILE, FURNISHED 12 3/4" x 0.500"	LF	225
505.MF01.1604	PILE, FURNISHED 16" x 0.500"	LF	948
505.MF02.1204	PILE, DRIVEN 12 3/4" x 0.500"	EACH	3
505.MF02.1604	PILE, DRIVEN 16" x 0.500"	EACH	16
505.MF20.0001	DRILLED ROCK SOCKET - FURNISH EQUIPMENT	LS	ALL REQ'D
505.MF21.0021	DRILLED ROCK SOCKET - INSTALLED	EACH	19
505.MF40.0021	WIND SOCK	EACH	1
505.MF01.1204A	WELDING, SALVAGE PILE, CO 2	LS	ALL REQ'D
506.MF40.0001	FLOAT IMPROVEMENTS - PORT PROTECTION, CO3	LS	ALL REQ'D
506.MF40.1001	TIMBER FLOAT 25' x 48' GANGWAY	LS	ALL REQ'D
506.MF40.1002	TIMBER FLOAT 10' x 125' MAIN	LS	ALL REQ'D
506.MF40.1003	TIMBER FLOAT 10' x 150' MAIN	LS	ALL REQ'D
506.MF40.1004	TIMBER FLOAT 5' x 40' STALL	LS	ALL REQ'D
506.MF40.1005	TIMBER FLOAT 8' x 50' END	LS	ALL REQ'D
506.MF85.0000	FIRE EXTINGUISHER STATION	EACH	5
506.MF86.0000	LIFE RING STATION	EACH	5
505.MF02.1604A	PILE OBSTRUCTIONS, CO 2	LS	ALL REQ'D
514.MF01.0021	CATHODIC PROTECTION 100LB PILE ANODE	EACH	19
615.MF01.0001	STANDARD SIGN	LS	ALL REQ'D
640.0001.0000	MOBILIZATION AND DEMOBILIZATION, CO 4	LS	ALL REQ'D
640.0004.0000	WORKER MEALS AND LODGING, OR PER DIEM	LS	ALL REQ'D
505.MF40.0021A	WIND SOCK MOUNT, CO 2	LS	ALL REQ'D
642.MF01.0001	CONSTRUCTION SURVEYING	LS	ALL REQ'D
506.MF40.0001	LEVELING FLOATATION INSTALLED, CO 2	LS	ALL REQ'D
644.0006.0000	VEHICLE AND SKIFF	LS	ALL REQ'D
654.MF01.0001	MARINE MAMMAL MONITORING, CO 1	LS	ALL REQ'D

ADDITIVE ALTERNATE 1 - MOORING FLOATS

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
505.MF01.1204A	PILE, FURNISHED 12 3/4" x 0.500" (SALVAGED)	LF	186 192
505.MF02.1204A	PILE, DRIVEN 12 3/4" x 0.500"	EACH	3
505.MF21.0021A	DRILLED ROCK SOCKET - INSTALLED	EACH	3
506.MF40.1001A	TIMBER FLOAT 8' x 75' MAIN	LS	ALL REQ'D
506.MF40.1002A	TIMBER FLOAT 3' x 20' STALL	LS	ALL REQ'D
514.MF01.0021A	CATHODIC PROTECTION 100LB PILE ANODE	EACH	3
640.0001.0000A	MOBILIZATION AND DEMOBILIZATION, CO 4	LS	ALL REQ'D
640.0004.0000A	WORKER MEALS AND LODGING, OR PER DIEM	LS	ALL REQ'D

ADDITIVE ALTERNATE 2 - FLOATING BREAKWATER

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
202.MF01.0001A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	ALL REQ'D
535.MF01.0001A	BREAKWATER - STEEL PONTOON W/ ANCHOR RESTRAINTS	LS	ALL REQ'D
640.0001.0000B	MOBILIZATION AND DEMOBILIZATION, CO 4	LS	ALL REQ'D
640.0004.0000B	WORKER MEALS AND LODGING, OR PER DIEM	LS	ALL REQ'D



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 8860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

EDNA BAY HARBOR IMPROVEMENTS

GENERAL NOTES & ESTIMATE OF QUANTITIES

FILE q:\paw\harrb00012\MP\PLANSET\Final bid ready\002 - General Notes & Estimate of Quantities.dwg DATE 4/17/2020 12:39 LAYOUT 002 DESIGNED XXX CHECKED STAFF DRAFTED STAFF

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SURVEY CONTROL NOTES

1. BASIS OF HORIZONTAL CONTROL FOR THIS PROJECT IS CENTERLINE OF THE EXISTING GANGWAY. CONTRACTOR SHALL FIELD LOCATE (AS-BUILT) AND ESTABLISH LOCAL SURVEY CONTROL BASED ON THE PLAN DIMENSIONS AS NEEDED FOR HORIZONTAL ALIGNMENT AND POSITIONING OF ALL NEW WORK
2. BASIS OF VERTICAL ELEVATION CONTROL FOR THIS PROJECT IS THE TOP OF THE EXISTING GANGWAY TIMBER ABUTMENT RETAINING WALL WHICH SHALL BE ESTABLISHED AS +16.1' MLLW.

SURVEY CONTROL POINTS

POINT #	NORTHING	EASTING	DESCRIPTION
7	1507795.37	2695461.79	ALSEC1.5" L12 BLK14/TRP/MC
6	1508072.12	2695324.53	ALSEC1.5" MC/ROW/L12_BLK14_ASL581-116
3	1508170.08	2695303.32	PK
2	1508590.01	2694645.52	GPS_ALSEC
1	1508208.38	2695195.44	OPUS_REBAR

LOT 1
SEC 23
ALASKA DNR REALTY SERVICES

LOT 12
BLOCK 14
A.S.L.S. 81-116
ALASKA DNR MENTAL HEALTH TRUST

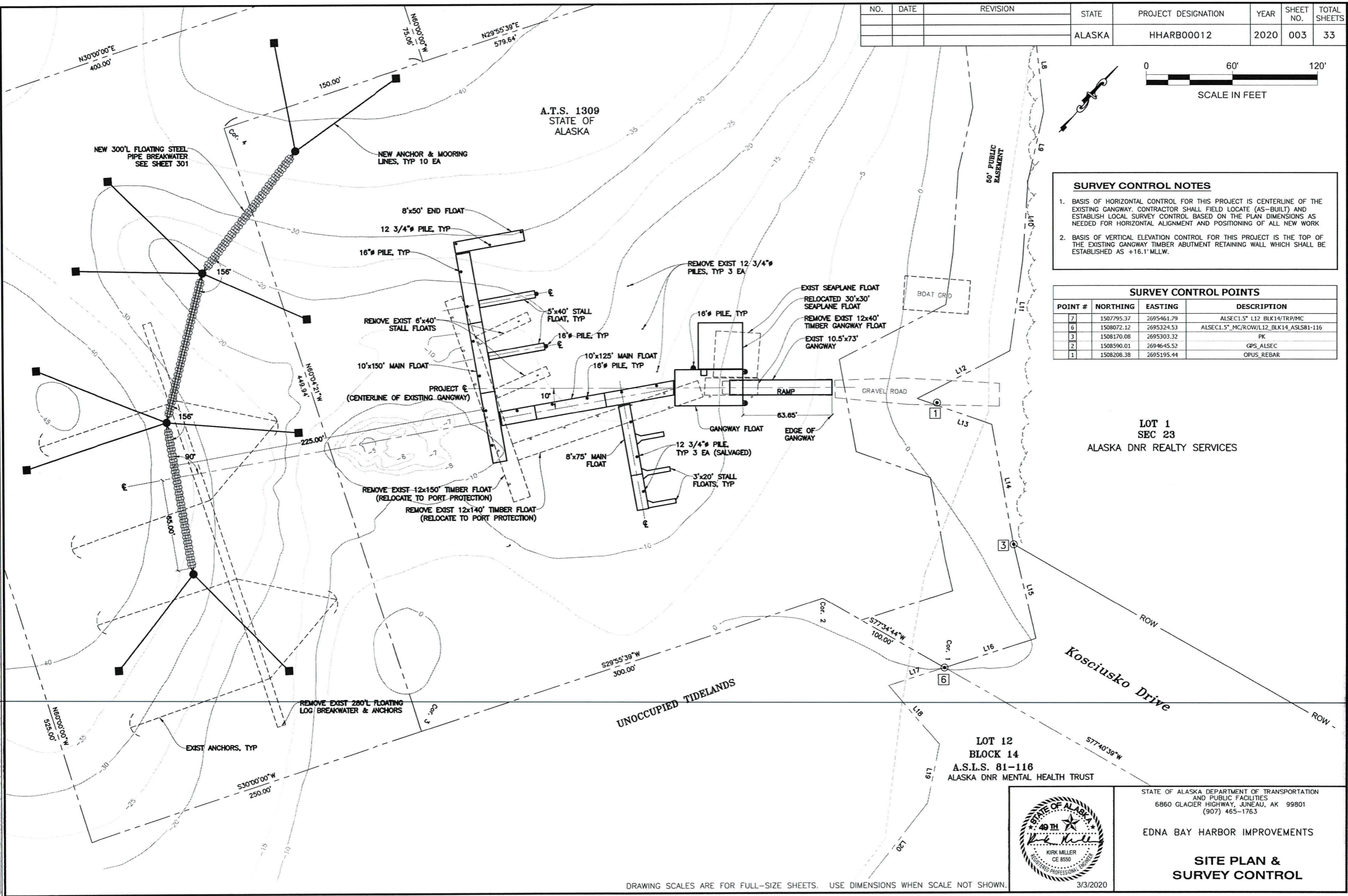


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EDNA BAY HARBOR IMPROVEMENTS

SITE PLAN & SURVEY CONTROL

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

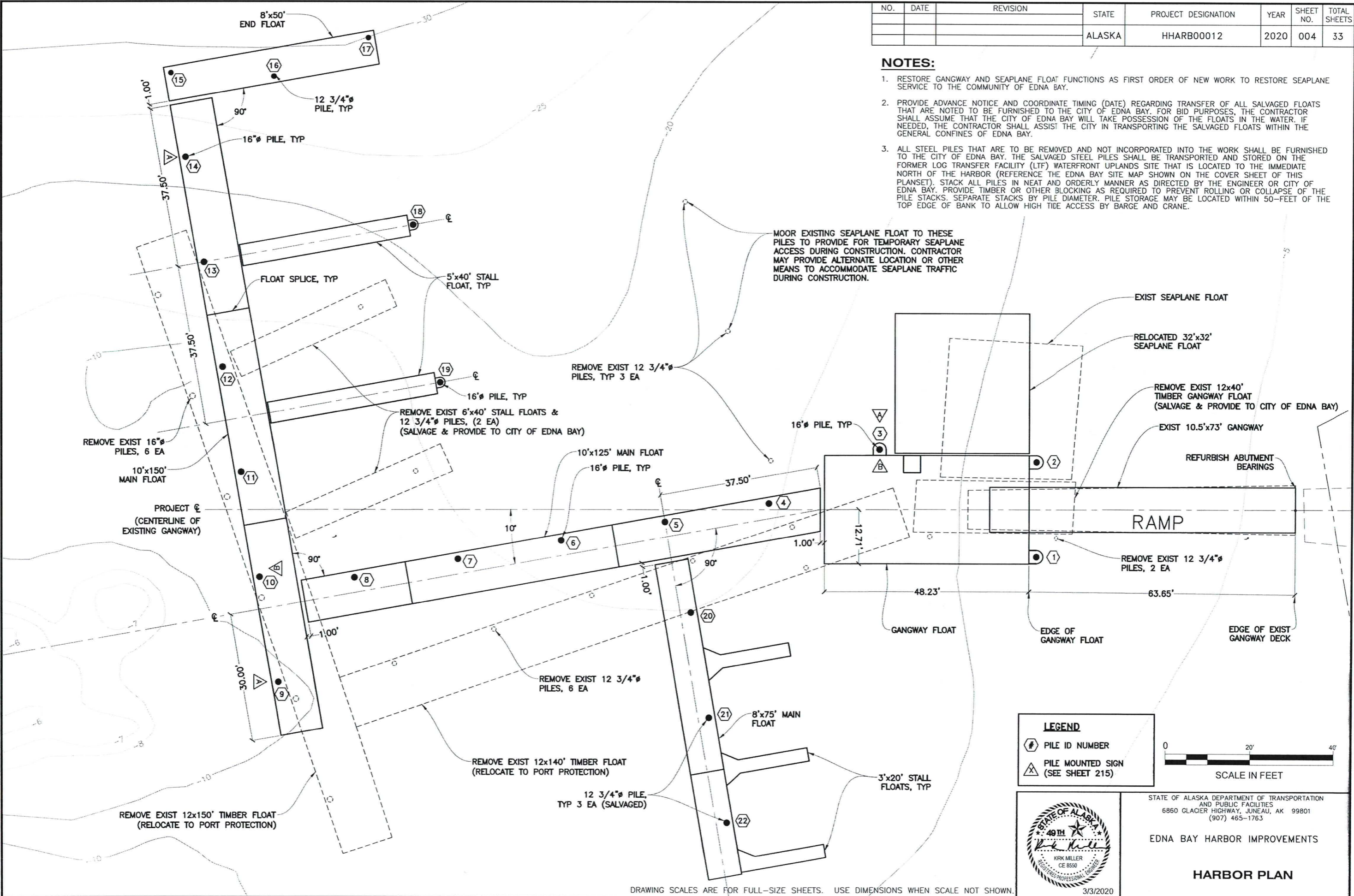


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			ALASKA	HHRB00012	2020	004	33

NOTES:

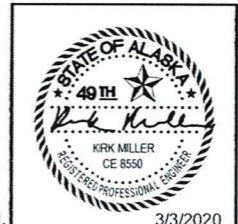
1. RESTORE GANGWAY AND SEAPLANE FLOAT FUNCTIONS AS FIRST ORDER OF NEW WORK TO RESTORE SEAPLANE SERVICE TO THE COMMUNITY OF EDNA BAY.
2. PROVIDE ADVANCE NOTICE AND COORDINATE TIMING (DATE) REGARDING TRANSFER OF ALL SALVAGED FLOATS THAT ARE NOTED TO BE FURNISHED TO THE CITY OF EDNA BAY. FOR BID PURPOSES, THE CONTRACTOR SHALL ASSUME THAT THE CITY OF EDNA BAY WILL TAKE POSSESSION OF THE FLOATS IN THE WATER. IF NEEDED, THE CONTRACTOR SHALL ASSIST THE CITY IN TRANSPORTING THE SALVAGED FLOATS WITHIN THE GENERAL CONFINES OF EDNA BAY.
3. ALL STEEL PILES THAT ARE TO BE REMOVED AND NOT INCORPORATED INTO THE WORK SHALL BE FURNISHED TO THE CITY OF EDNA BAY. THE SALVAGED STEEL PILES SHALL BE TRANSPORTED AND STORED ON THE FORMER LOG TRANSFER FACILITY (LTF) WATERFRONT UPLANDS SITE THAT IS LOCATED TO THE IMMEDIATE NORTH OF THE HARBOR (REFERENCE THE EDNA BAY SITE MAP SHOWN ON THE COVER SHEET OF THIS PLANSET). STACK ALL PILES IN NEAT AND ORDERLY MANNER AS DIRECTED BY THE ENGINEER OR CITY OF EDNA BAY. PROVIDE TIMBER OR OTHER BLOCKING AS REQUIRED TO PREVENT ROLLING OR COLLAPSE OF THE PILE STACKS. SEPARATE STACKS BY PILE DIAMETER. PILE STORAGE MAY BE LOCATED WITHIN 50- FEET OF THE TOP EDGE OF BANK TO ALLOW HIGH TIDE ACCESS BY BARGE AND CRANE.



MOOR EXISTING SEAPLANE FLOAT TO THESE PILES TO PROVIDE FOR TEMPORARY SEAPLANE ACCESS DURING CONSTRUCTION. CONTRACTOR MAY PROVIDE ALTERNATE LOCATION OR OTHER MEANS TO ACCOMMODATE SEAPLANE TRAFFIC DURING CONSTRUCTION.

LEGEND

- ⊕ PILE ID NUMBER
- ⚠ PILE MOUNTED SIGN (SEE SHEET 215)



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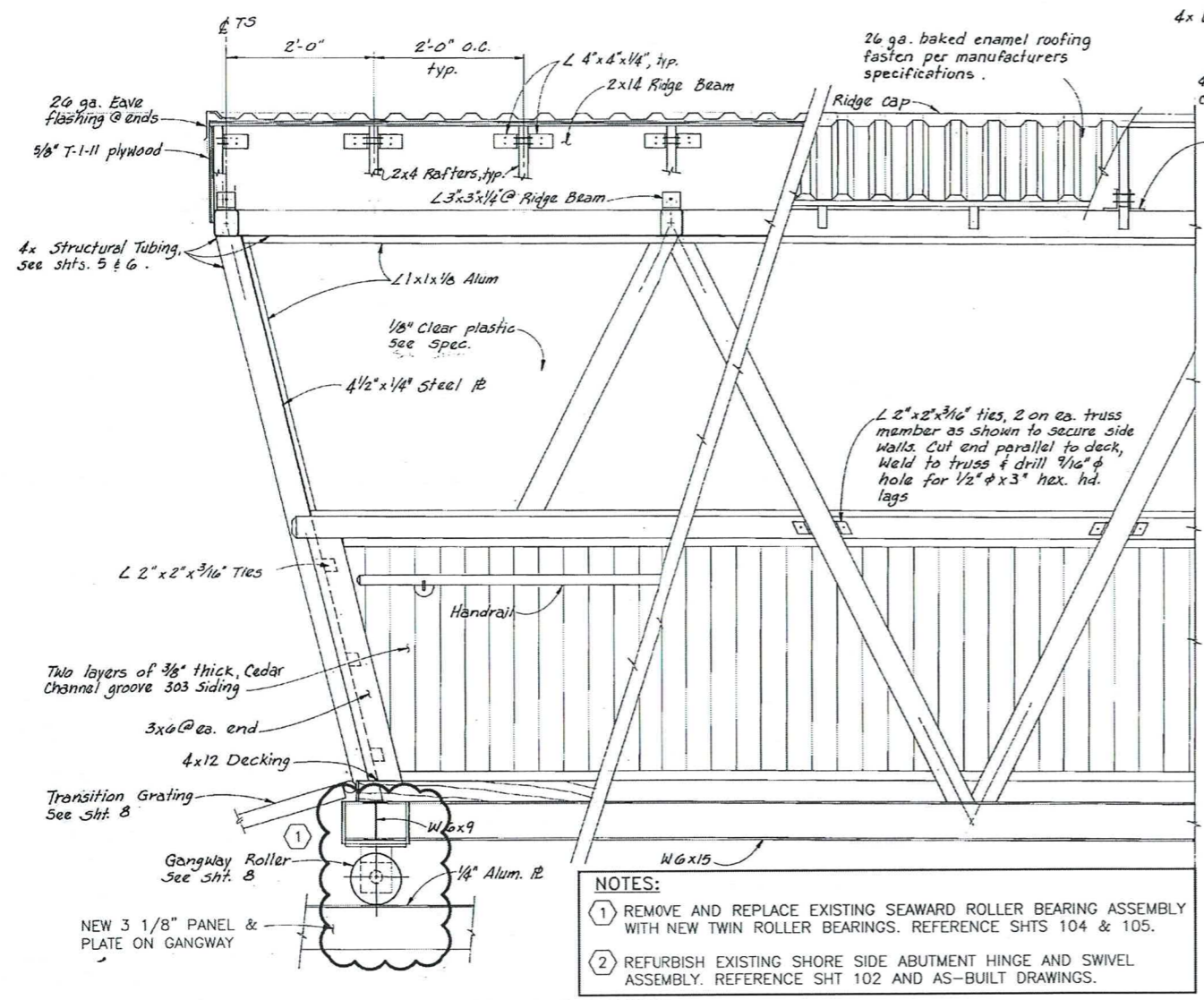
HARBOR PLAN

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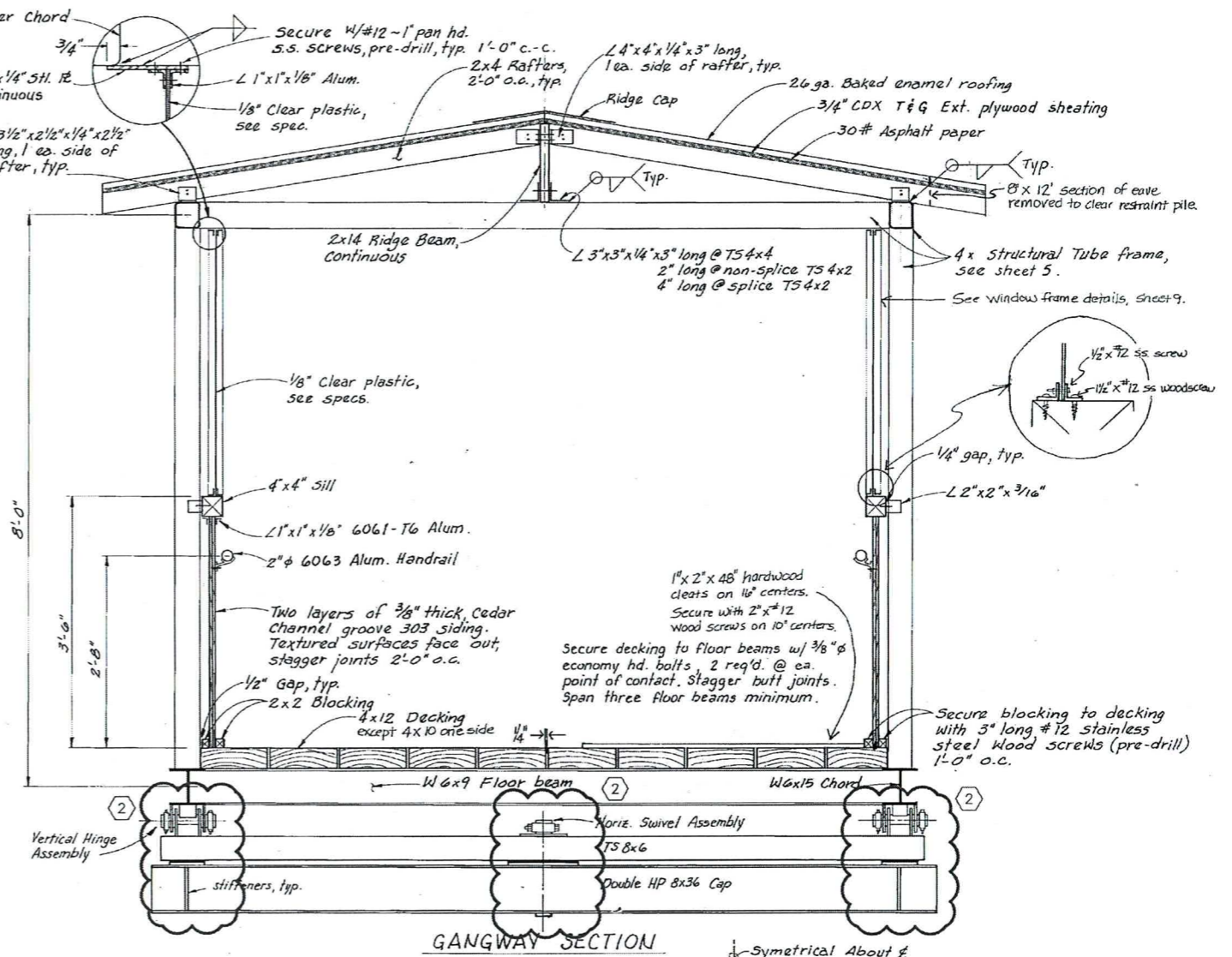
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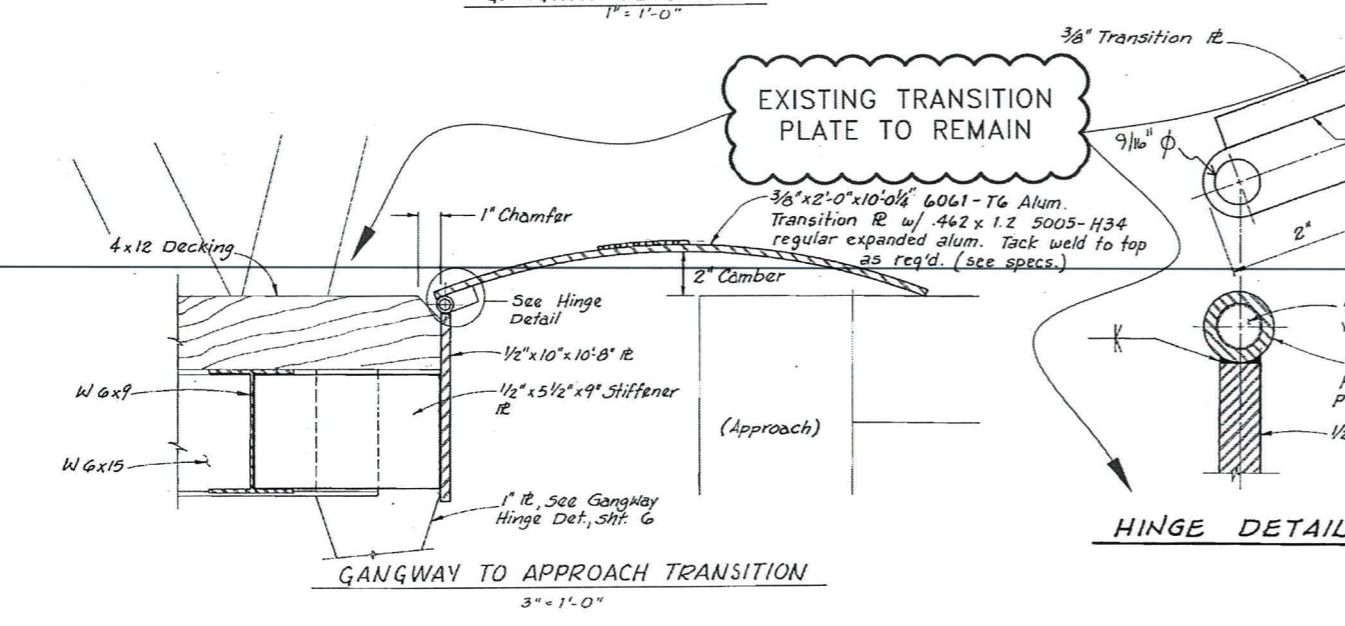
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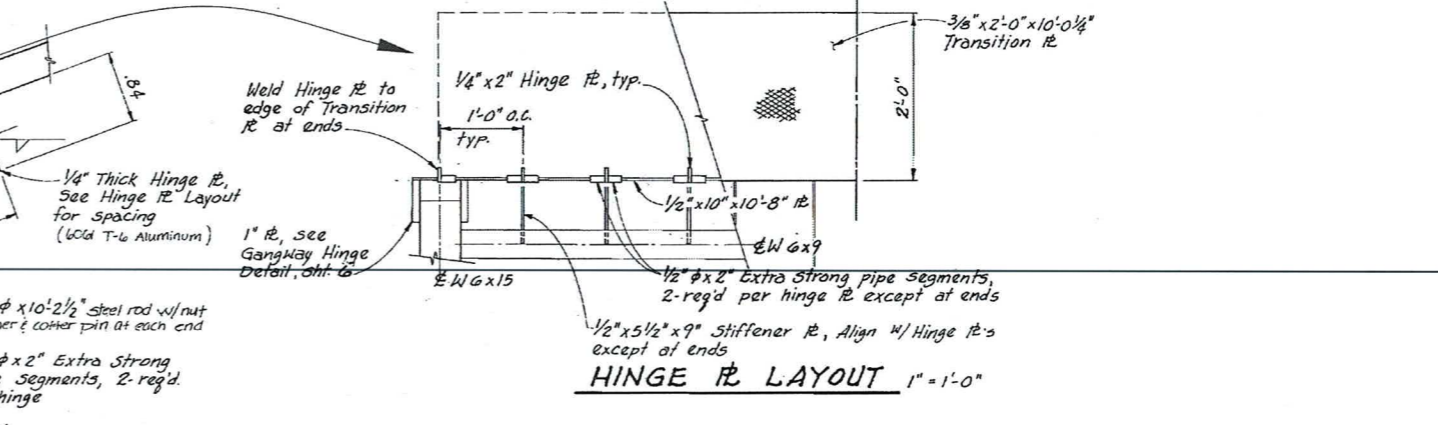
- NOTES:**
- REMOVE AND REPLACE EXISTING SEAWARD ROLLER BEARING ASSEMBLY WITH NEW TWIN ROLLER BEARINGS. REFERENCE SHTS 104 & 105.
 - REFURBISH EXISTING SHORE SIDE ABUTMENT HINGE AND SWIVEL ASSEMBLY. REFERENCE SHT 102 AND AS-BUILT DRAWINGS.



GANGWAY SECTION
1" = 1'-0"



HINGE DETAIL
3/8" = 1'-0"



HINGE R LAYOUT
1" = 1'-0"

EXISTING AS-BUILT DRAWINGS SHOWN. VIEW THIS SHEET IN COLOR. NEW WORK AND MATERIALS ARE CIRCLED IN RED. OTHER MATERIALS AND NOTES NOT CIRCLED IN RED APPLY TO EXISTING FEATURES TO REMAIN.

LEGEND:

NEW FIELD WORK ITEMS



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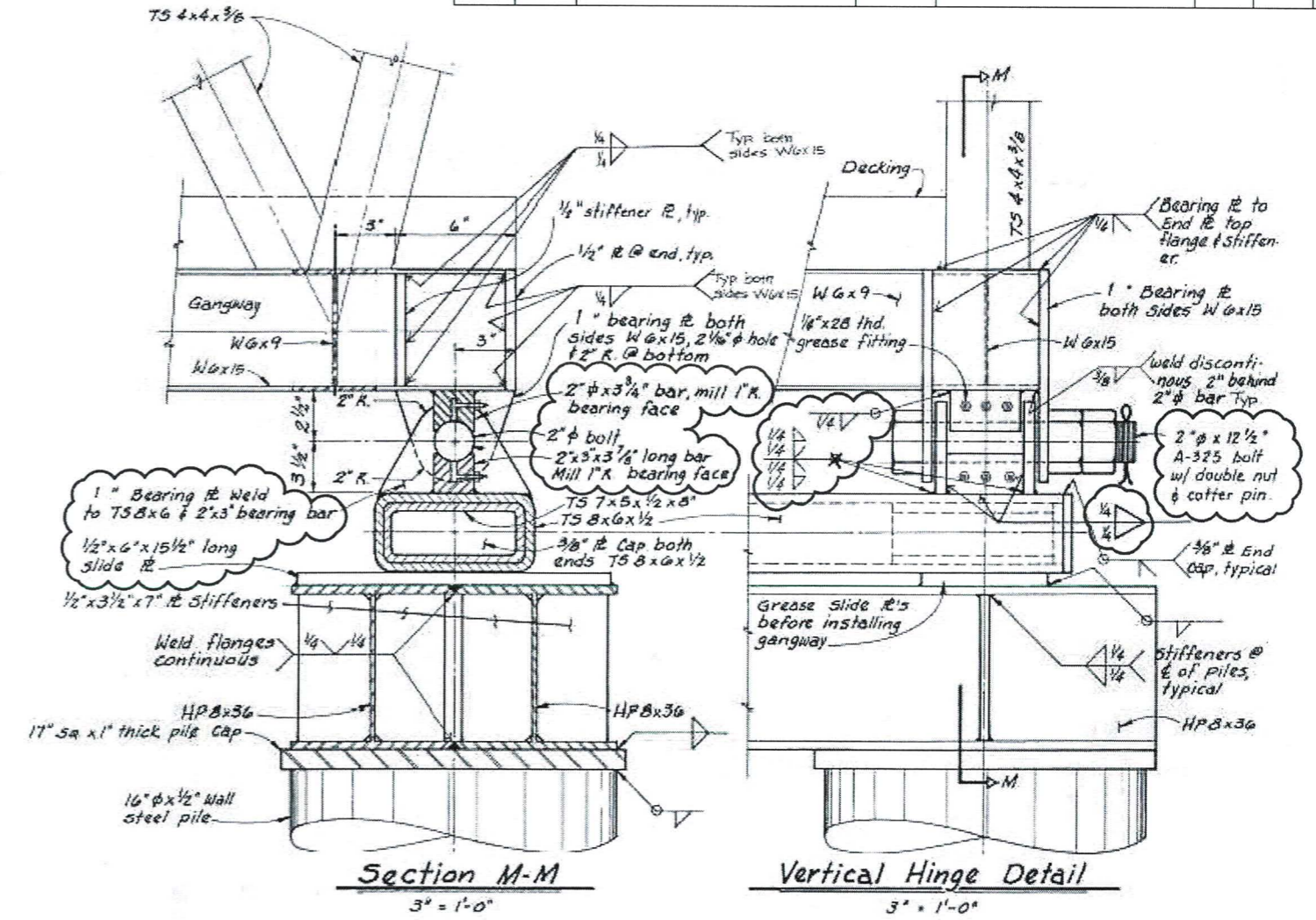
EDNA BAY HARBOR IMPROVEMENTS

EXISTING GANGWAY

3/3/2020

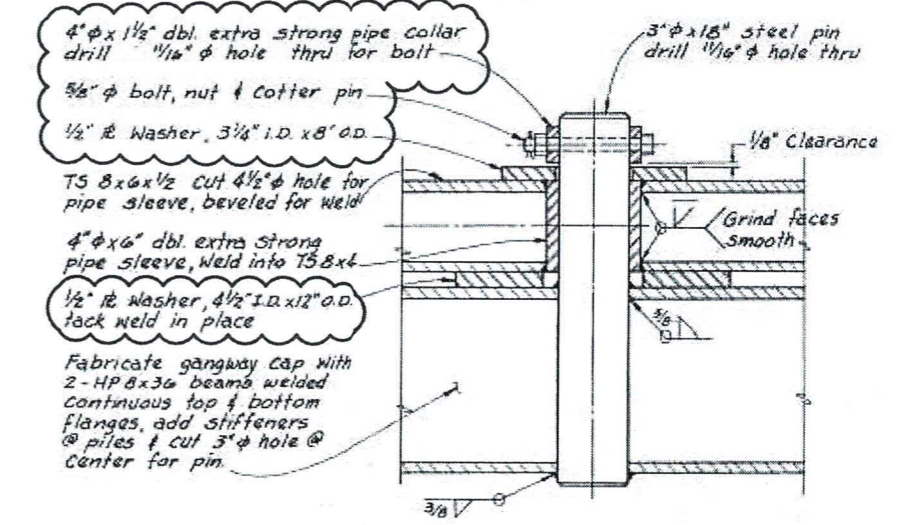
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SHORESIDE ABUTMENT HINGE REFURBISHMENT NOTES:

1. REMOVE EXISTING HINGE BOLTS AND CENTER PIN RESTRAINT CAP. REMOVE OR OTHERWISE TEMPORARILY SUPPORT BRIDGE FROM BEARING POSITION TO ALLOW ACCESS TO THE WORK.
2. REMOVE AND REPLACE ALL NOTED ITEMS AND HARDWARE WITH NEW MATERIALS.
3. ABRASIVE BLAST OR POWER BRUSH ALL SURFACES OF THE EXISTING GANGWAY CAP AND TUBE STEEL BEARING BEAM.
4. PAINT GANGWAY CAP (INCLUDING THE TOP 12" OF THE ABUTMENT PIPE PILES), TUBE STEEL BEARING BEAM AND HINGE PLATES WITH THREE COATS OF COLD GALVANIZING PAINT. DO NOT PAINT SURFACES OF SLIDING PLATES OR ANY LOAD BEARING SURFACES.
5. RE-POSITION GANGWAY AND ATTACH ALL GANGWAY ABUTMENT CONNECTIONS AS NOTED. INSURE ALL BEARING AND CONTACT SURFACES ARE UNIFORMLY COATED WITH HEAVY DUTY, WATERPROOF GREASE PRIOR TO ASSEMBLY.



FILE: c:\pwworking\harc00012\p\PLANSET\final bid ready\102_103-GW Details.dwg
 DATE: 1/15/2020 8:43
 LAYOUT: 102
 DESIGNED: XXX
 CHECKED: STAFF
 DRAFTED: STAFF

EXISTING AS-BUILT DRAWINGS SHOWN. VIEW THIS SHEET IN COLOR. NEW WORK AND MATERIALS ARE CIRCLED IN RED. OTHER MATERIALS AND NOTES NOT CIRCLED IN RED APPLY TO EXISTING FEATURES TO REMAIN.

LEGEND:

NEW FIELD WORK ITEMS



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6850 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

EDNA BAY HARBOR IMPROVEMENTS

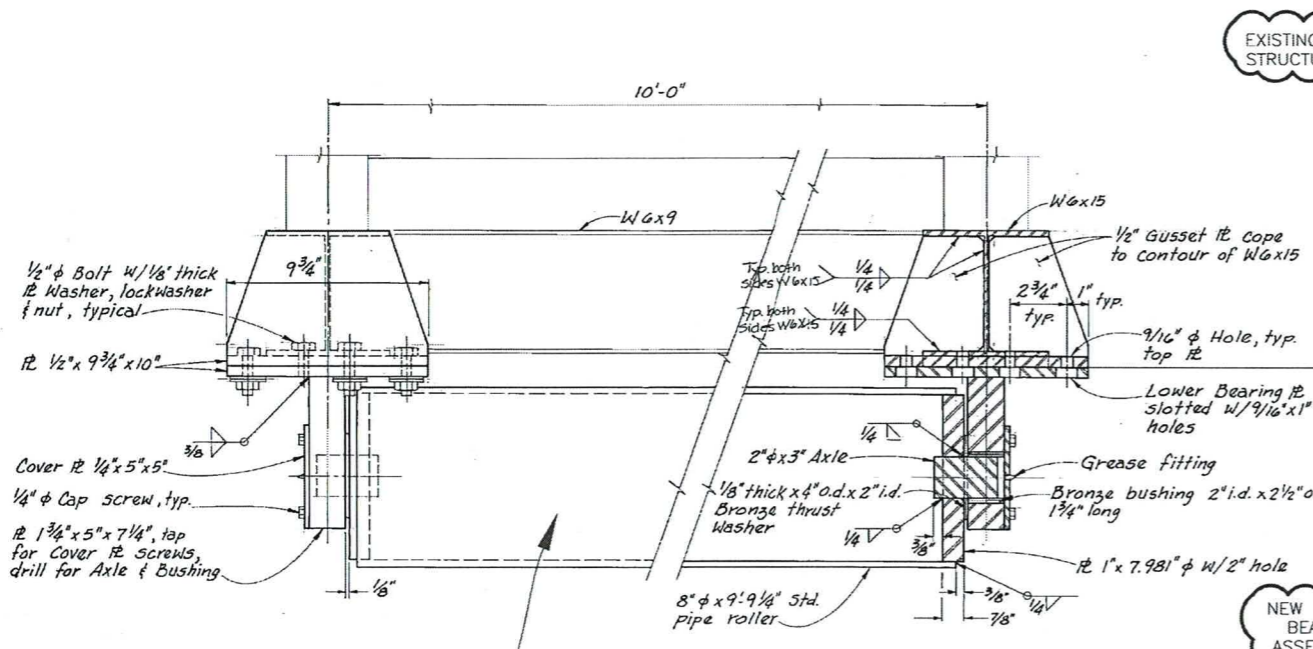
**GANGWAY MODIFICATIONS
 SHOREWARD END**

3/3/2020

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

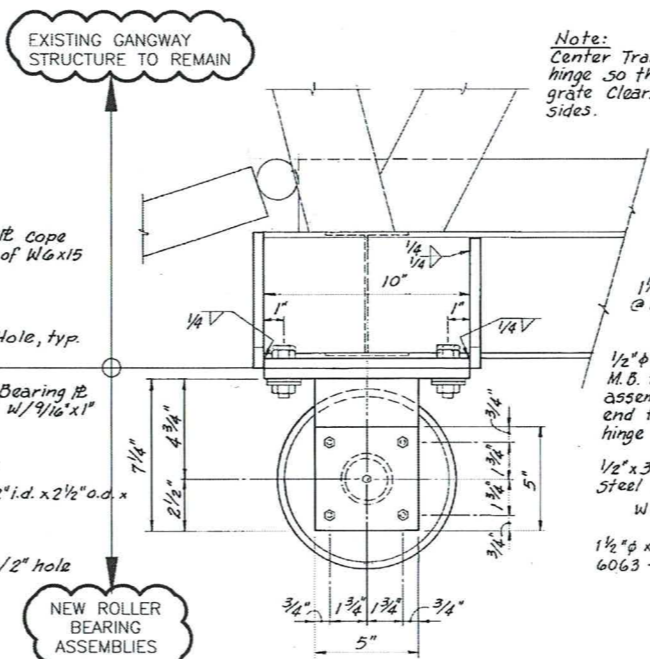
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HARB00012	2020	103	33

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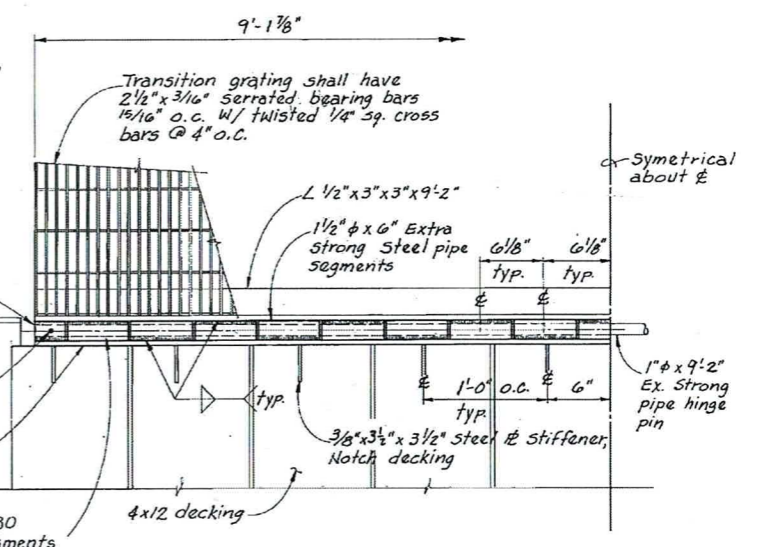
REMOVE EXISTING ROLLER ASSEMBLY

GANGWAY ROLLER
3' x 1'-0'

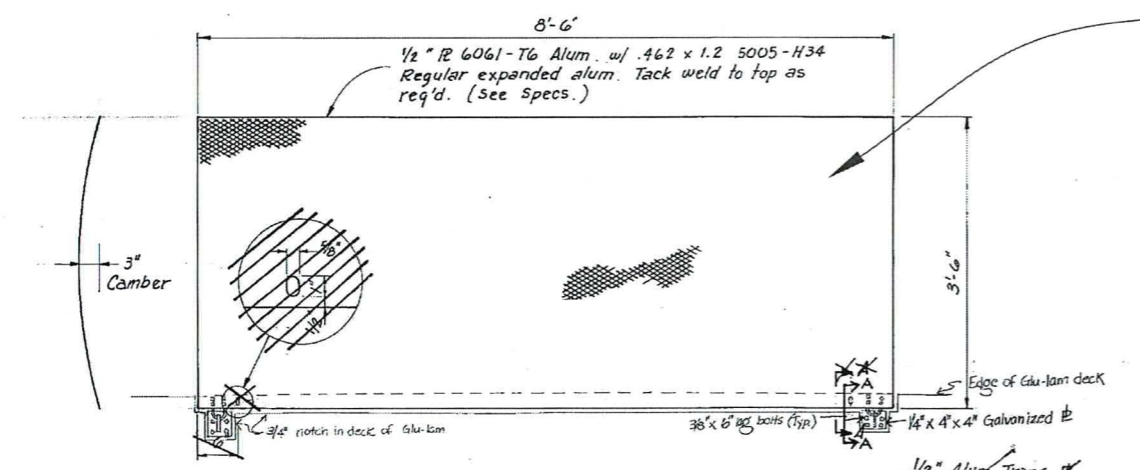


NEW ROLLER BEARING ASSEMBLIES

BEARING ASSEMBLY
3' x 1'-0'

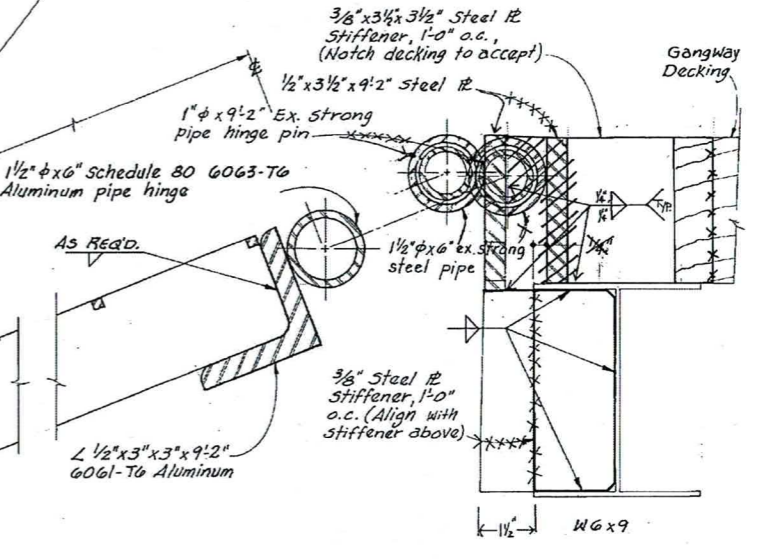


PLAN - TRANSITION GRATE
1 1/2" x 1'-0"

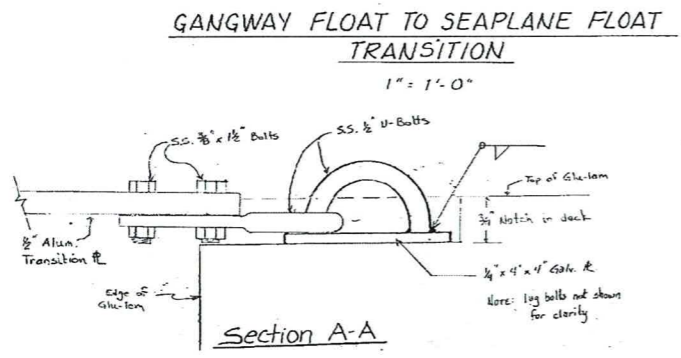


EXISTING TRANSITION PLATE TO REMAIN

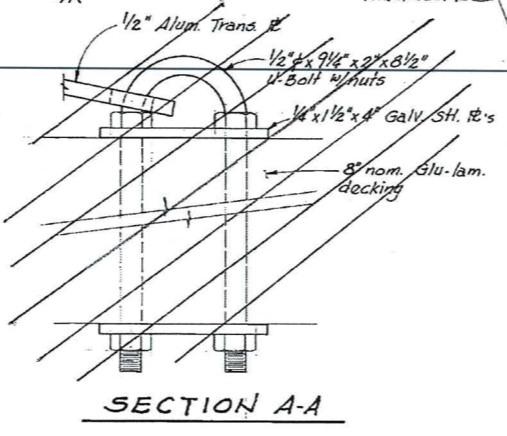
EXISTING TRANSITION PLATE TO REMAIN



HINGE DETAIL
1/2" x 1"



GANGWAY FLOAT TO SEAPLANE FLOAT TRANSITION
1' x 1'-0"



SECTION A-A

SKID PLATE
1/2" x 1"

EXISTING AS-BUILT DRAWINGS SHOWN. VIEW THIS SHEET IN COLOR. NEW WORK AND MATERIALS ARE CIRCLED IN RED. OTHER MATERIALS AND NOTES NOT CIRCLED IN RED APPLY TO EXISTING FEATURES TO REMAIN.

LEGEND:
 NEW FIELD WORK ITEMS



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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EDNA BAY HARBOR IMPROVEMENTS

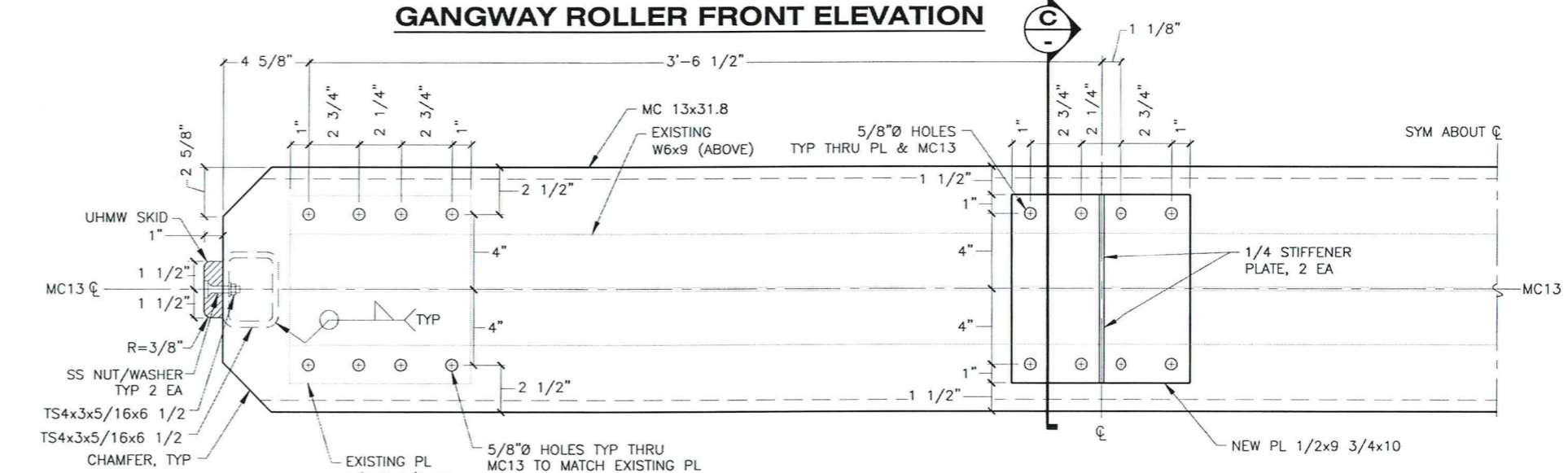
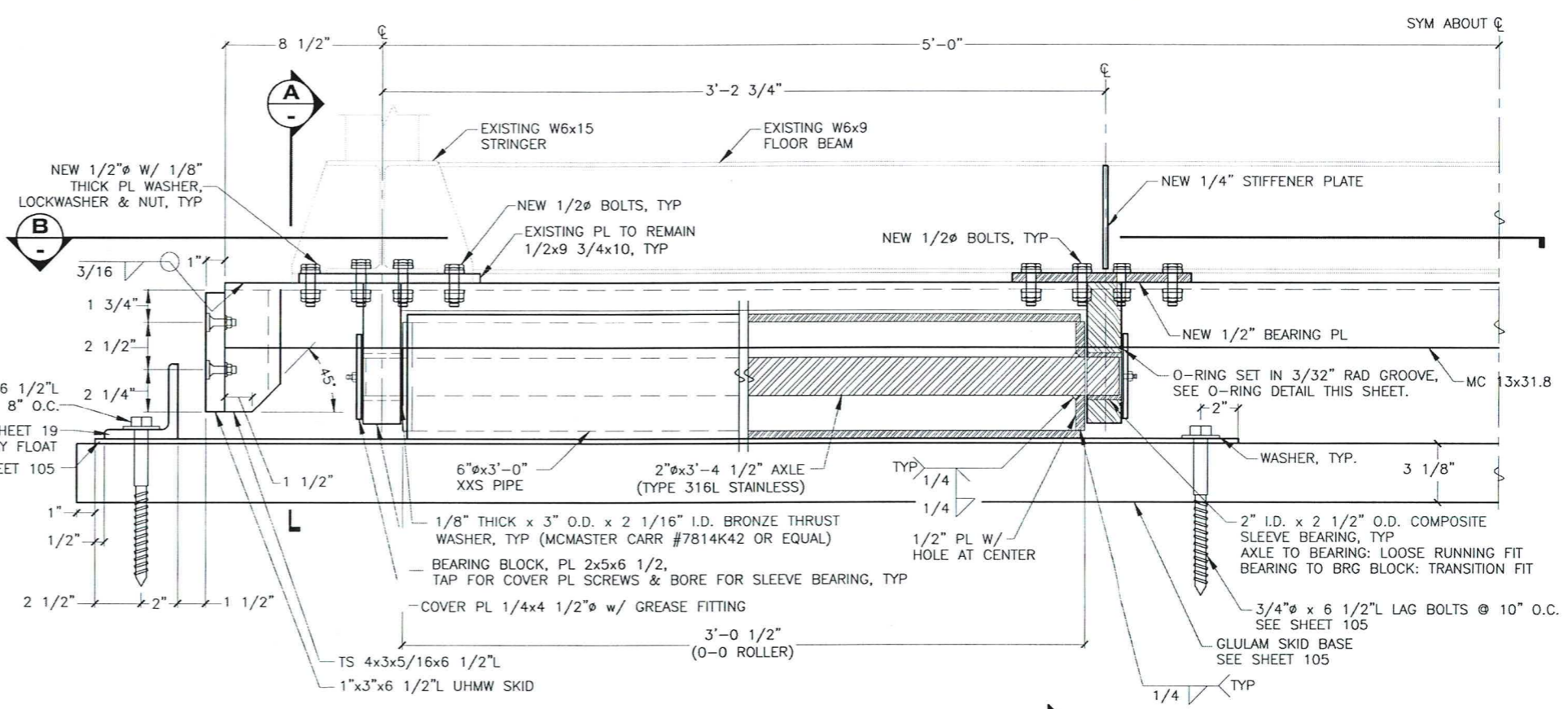
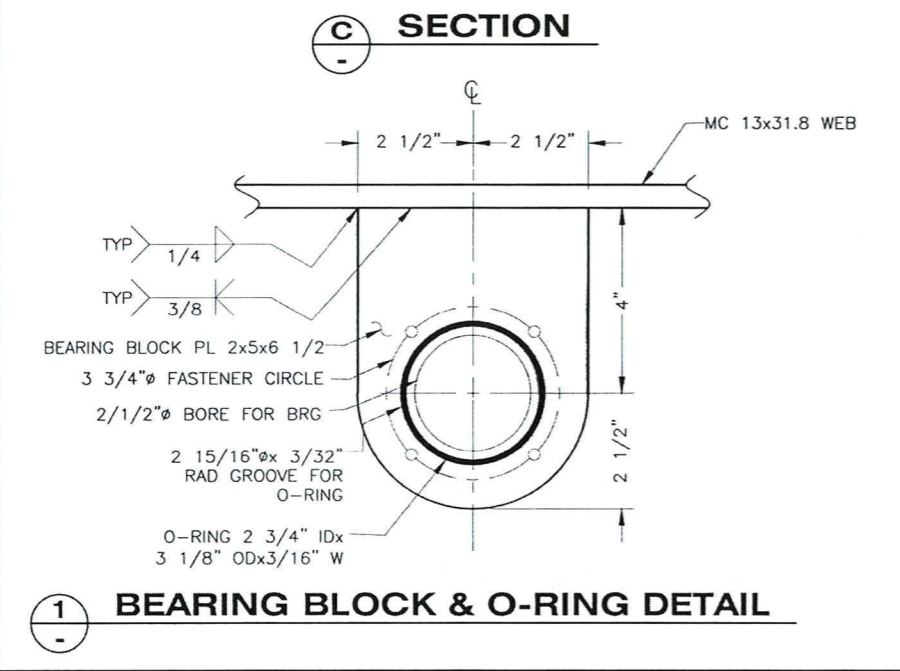
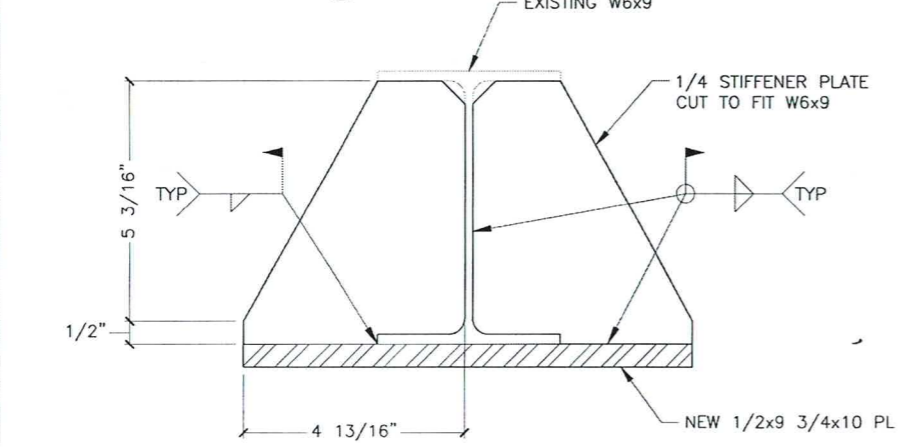
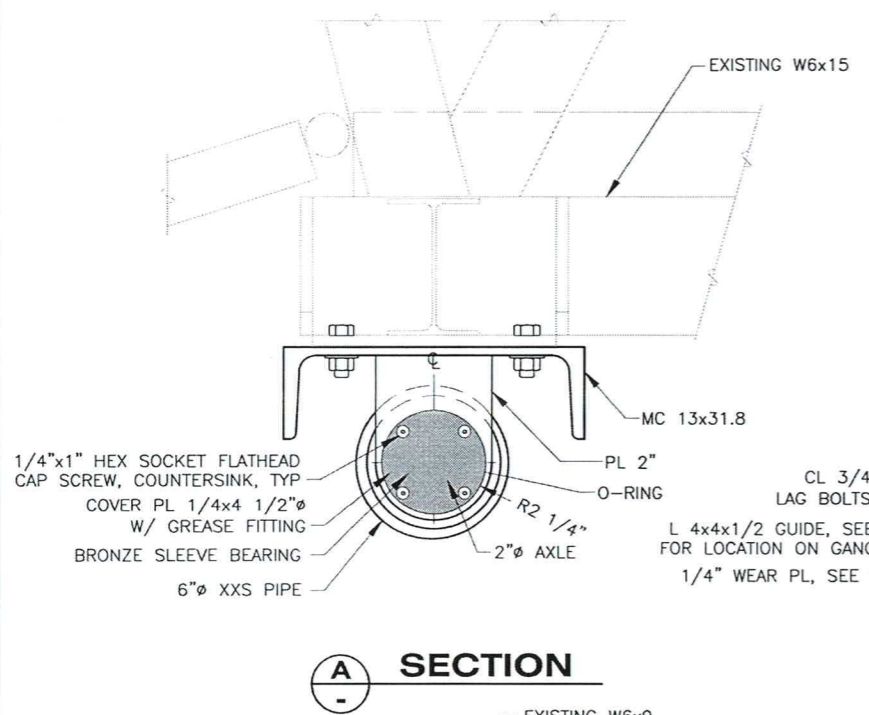
GANGWAY MODIFICATIONS SEAWARD END

3/3/2020

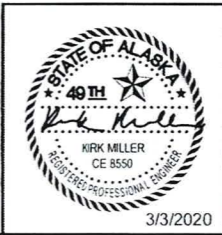
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HARBOR0012	2020	104	33

FILE: q:\Pow\hharb00012\VF\PLANSET\final bid ready\104_105 - GW float_Skid.dwg
 DATE: 1/15/2020 9:23
 LAYOUT: 104
 DESIGNED: XXX
 CHECKED: STAFF
 DRAFTED: STAFF



DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



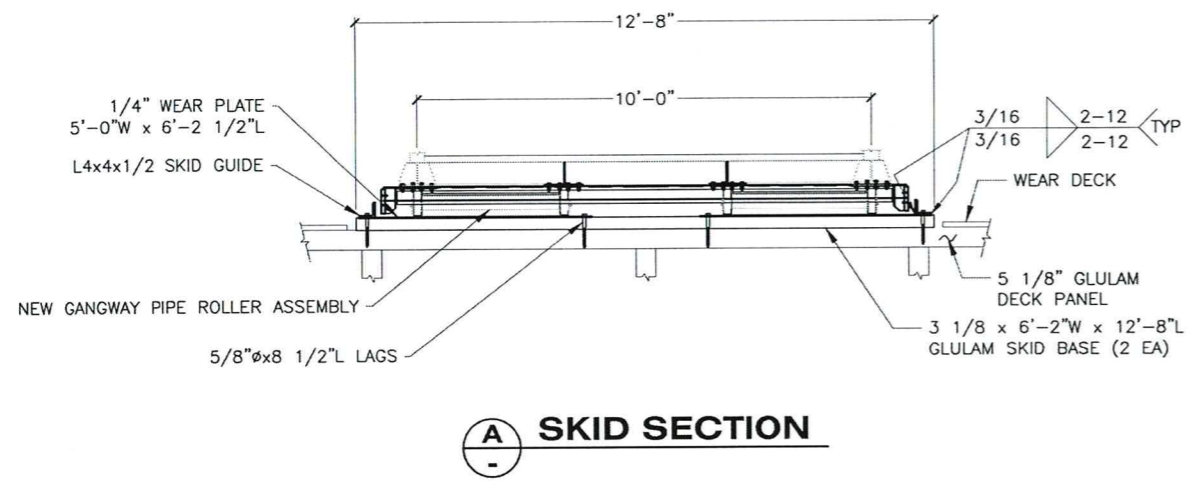
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

EDNA BAY HARBOR IMPROVEMENTS

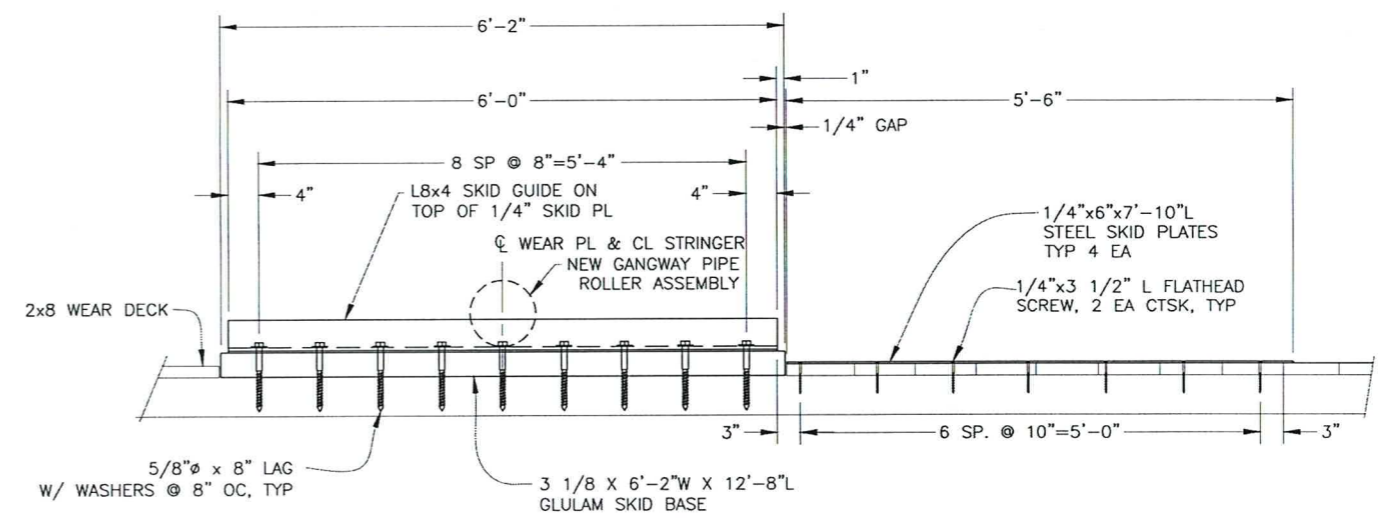
GANGWAY SHOREWARD HINGE & SEAWARD ROLLER DETAILS

3/3/2020

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HARB00012	2020	105	33

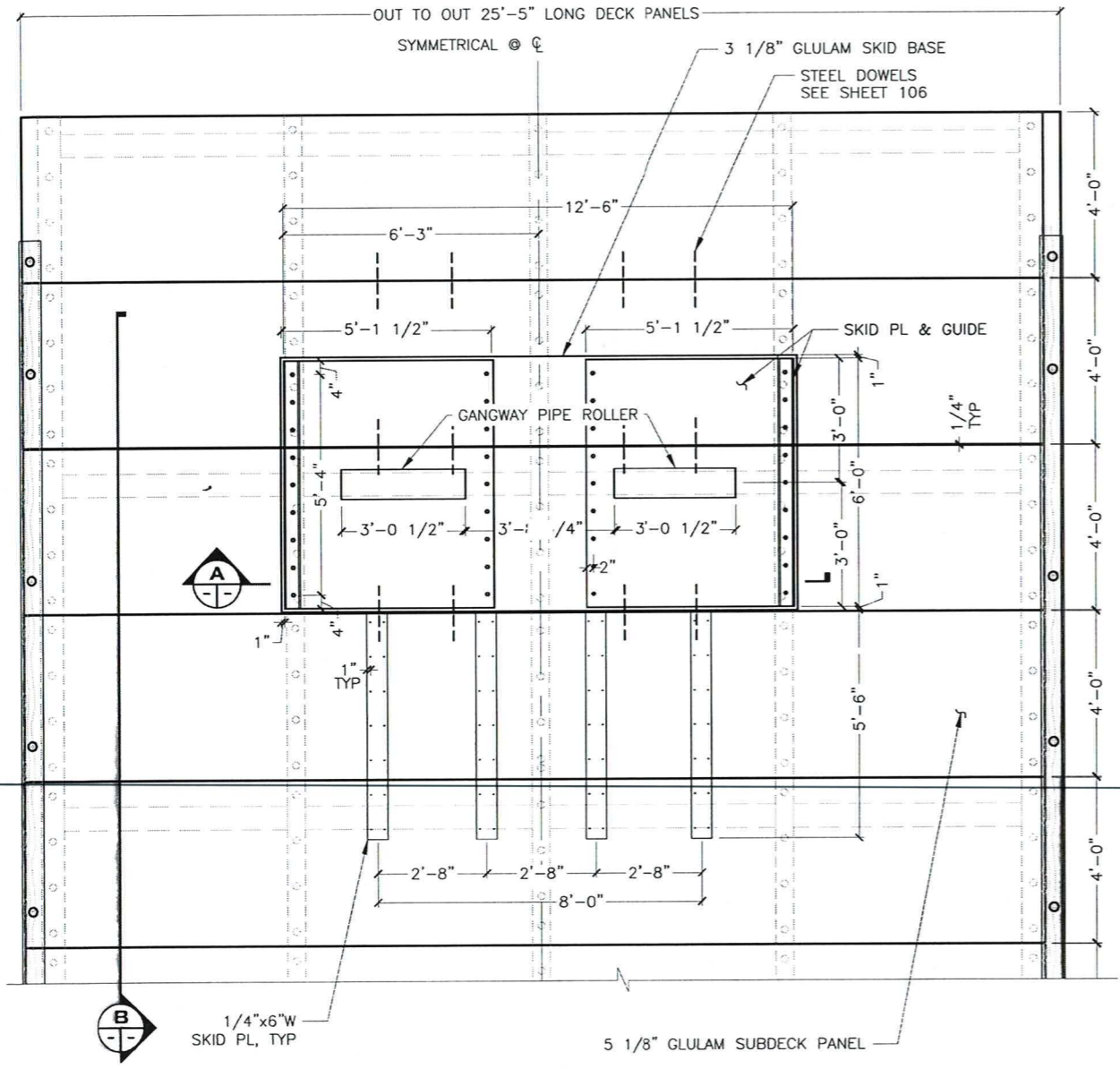


A SKID SECTION




B SKID SIDE ELEVATION

- SKID PLATE INSTALLATION NOTES:**
1. AFFIX SKID PLATES TO FLOAT AFTER PLACEMENT OF FLOAT & TRESTLE STRUCTURES & VERIFICATION OF AS-BUILT POSITION.
 2. OMIT WEAR DECK BOARDS IN REGION OF SKID PLATES & TEMPORARILY PLACE SKID PLATE ASSEMBLIES AT PLAN LOCATION OR AS OTHERWISE DIRECTED BY THE ENGINEER BASED ON AS-BUILT POSITION OF STRUCTURES.
 3. OBSERVE & MARK GANGWAY TRAVEL FOR A MINIMUM OF 5-DAYS OF TIDAL CYCLES.
 4. ADJUST LOCATION & ALIGNMENT OF SKID PLATES AS REQUIRED AFTER GANGWAY TRAVEL CHARACTERISTICS ARE KNOWN.
 5. INSTALL LAG BOLTS AS NOTED ON PLANS AND PLACE REMAINING WEAR DECK BOARDS TO MATCH.



GANGWAY SKID PLAN

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



KIRK MILLER
CE 8550
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

EDNA BAY HARBOR IMPROVEMENTS

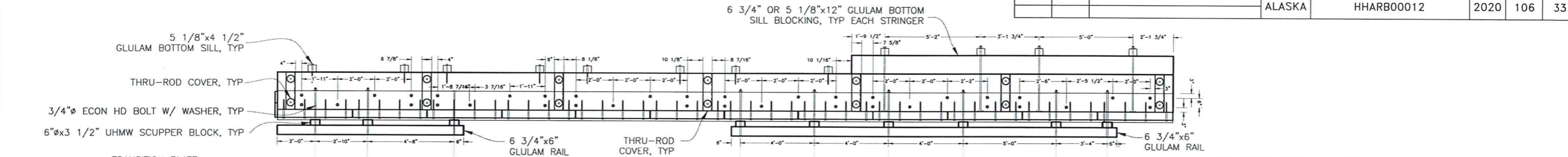
GANGWAY SKID

3/3/2020

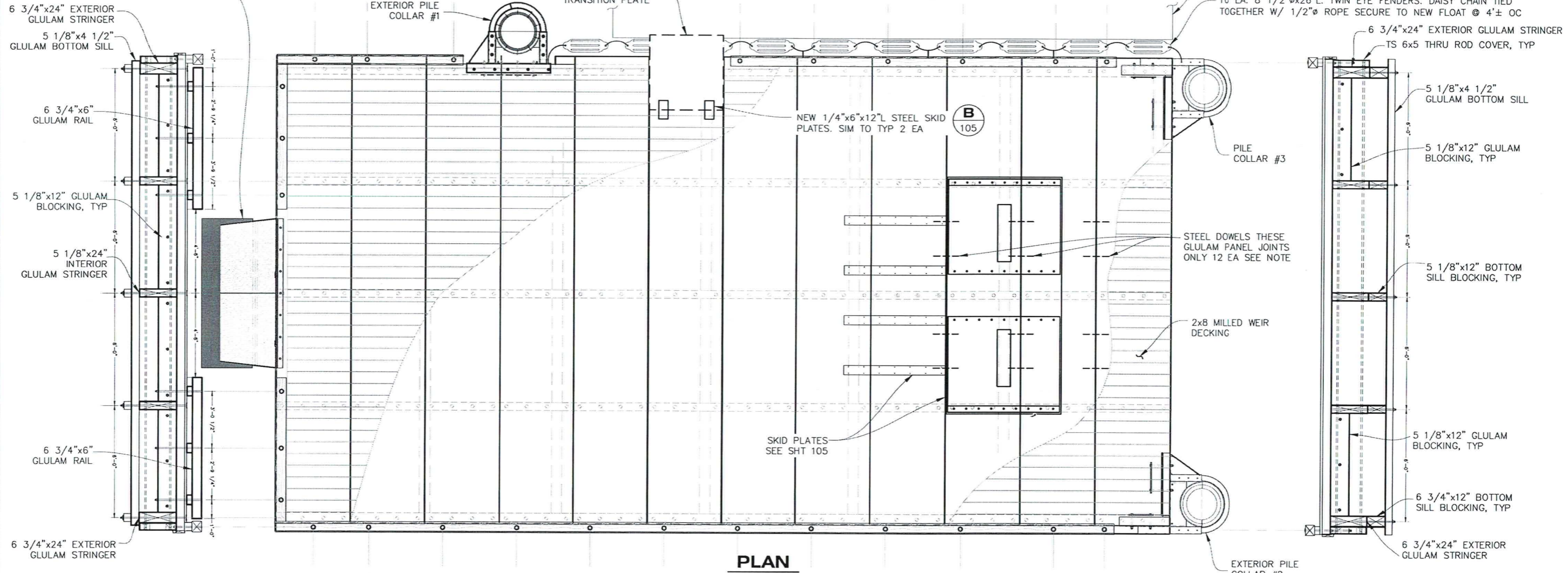
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 CHECKED: STAFF
 DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HARB00012	2020	106	33

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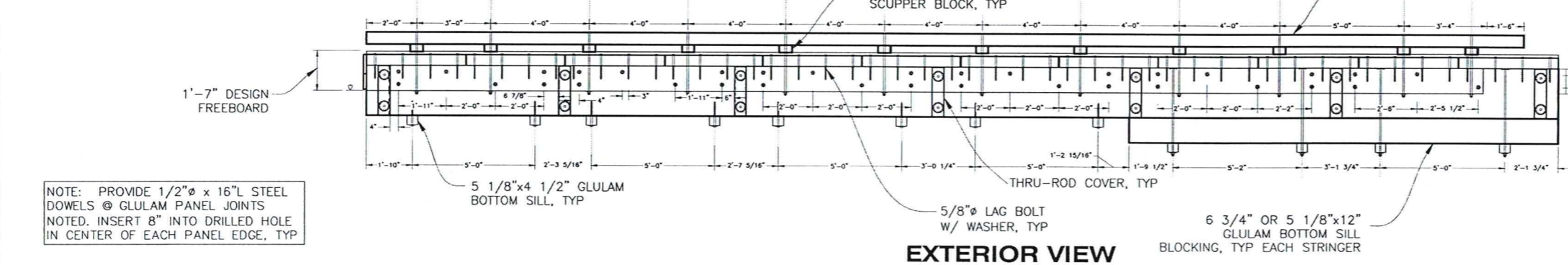


EXTERIOR VIEW



PLAN

EXTERIOR VIEW



EXTERIOR VIEW

EXTERIOR VIEW (PILE COLLARS NOT SHOWN)

NOTE: PROVIDE 1/2" Ø x 16" L STEEL DOWELS @ GLULAM PANEL JOINTS
 NOTED. INSERT 8" INTO DRILLED HOLE IN CENTER OF EACH PANEL EDGE, TYP



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EDNA BAY HARBOR IMPROVEMENTS

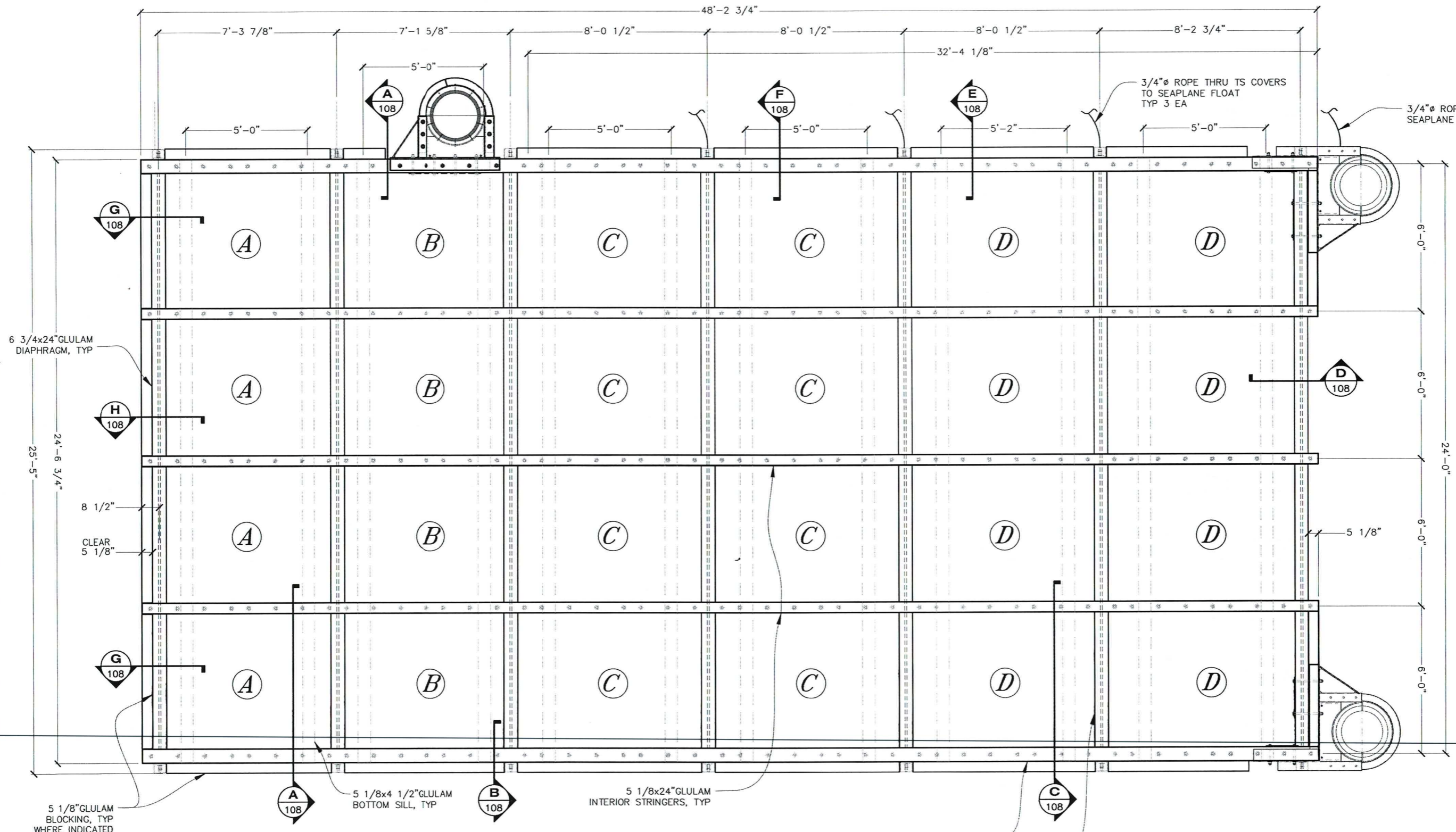
**GANGWAY FLOAT
 PLAN & EXTERIOR VIEWS**

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/3/2020

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HARB00012	2020	107	33

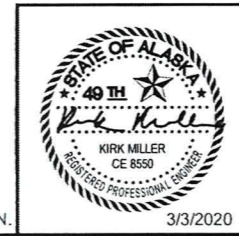
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 DATE 1/15/2020 9:24 LAYOUT 107 DESIGNED XXX CHECKED STAFF DRAFTED STAFF



FLOATION BILLETS	
(A)	SEE SHEET 109
(B)	SEE SHEET 109
(C)	SEE SHEET 109
(D)	SEE SHEET 109

FRAMING PLAN

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

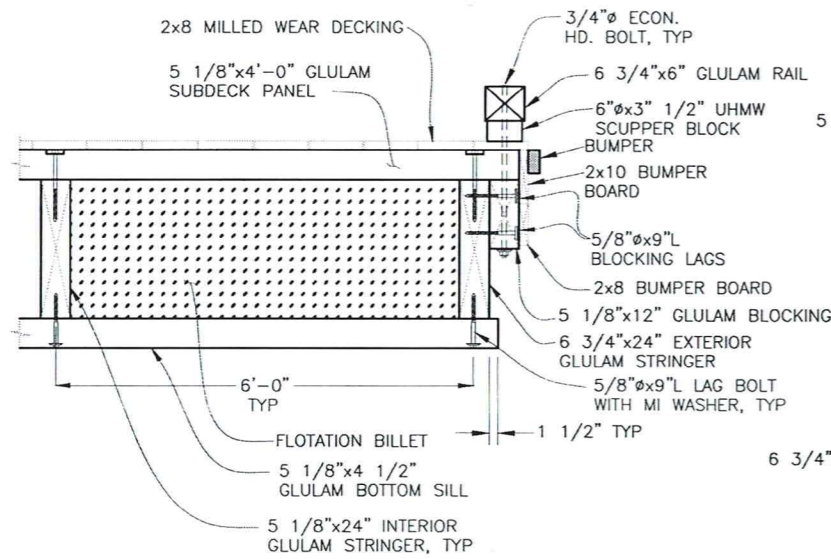


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

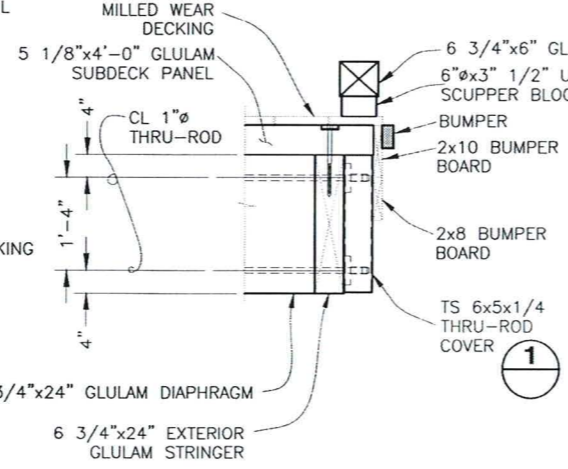
EDNA BAY HARBOR IMPROVEMENTS

GANGWAY FLOAT FRAMING PLAN

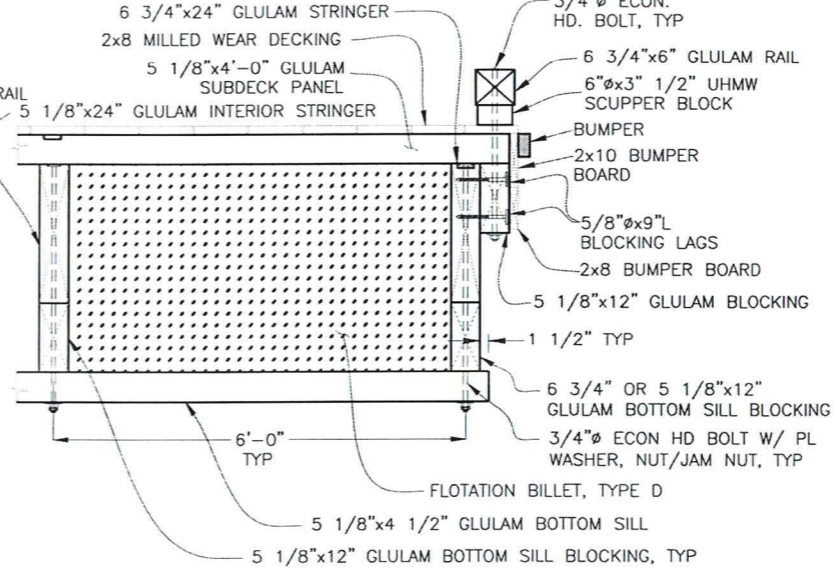
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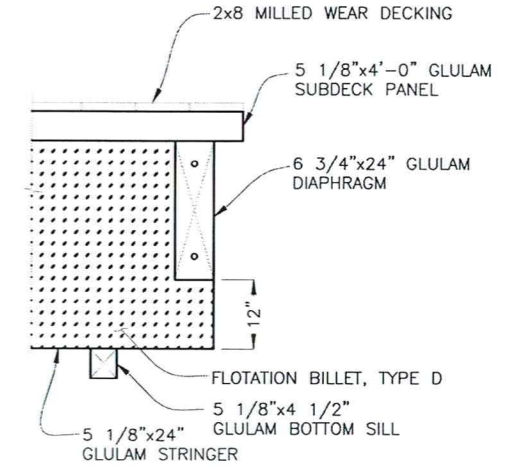
A SECTION
108



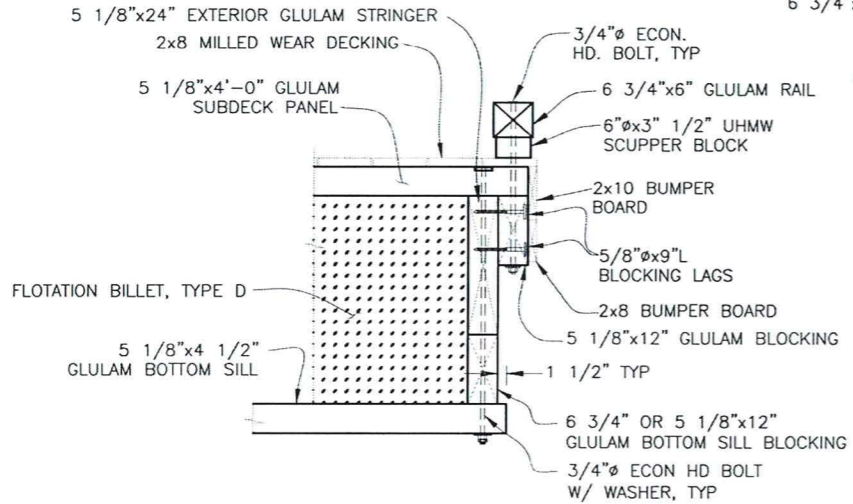
B SECTION
108



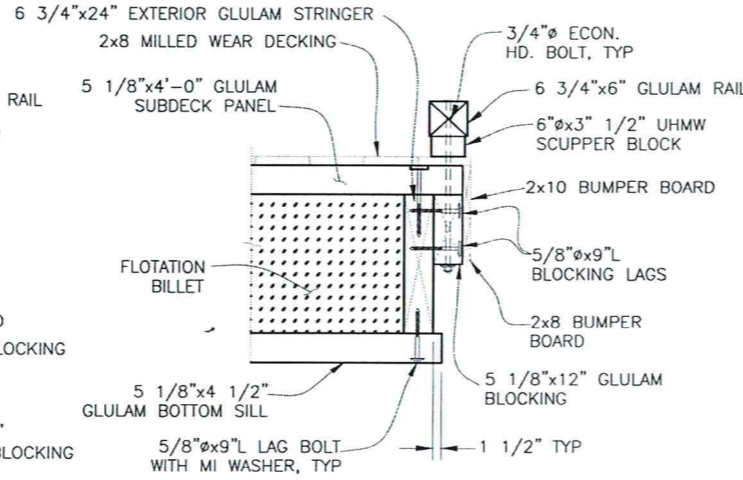
C SECTION
108



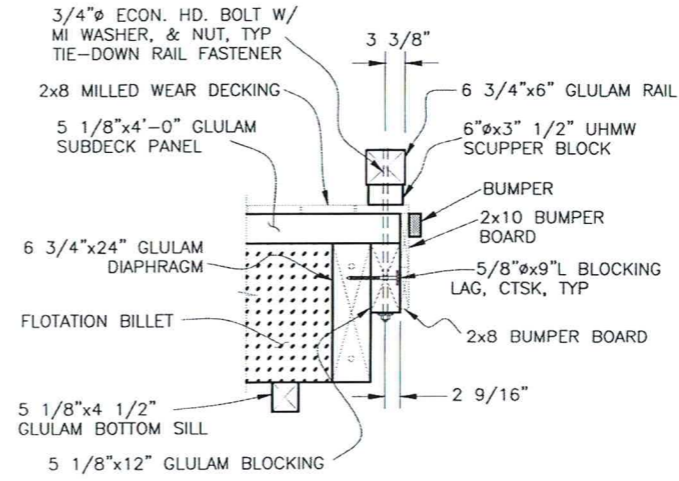
D SECTION
108



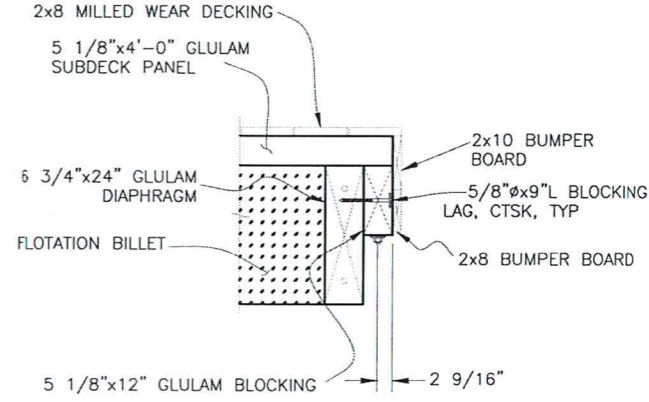
E SECTION
108



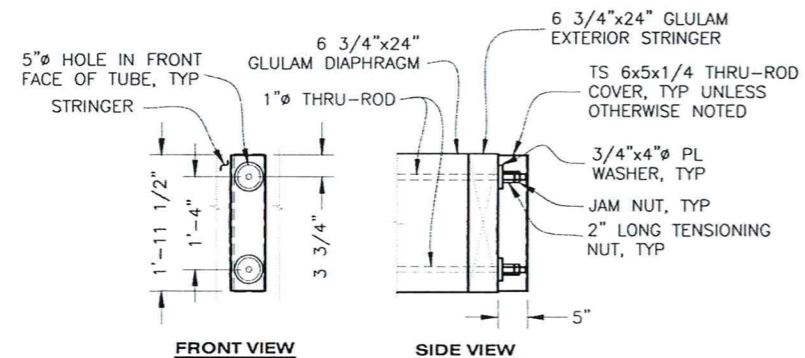
F SECTION
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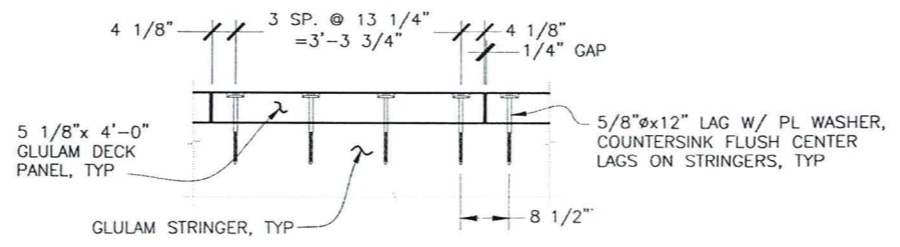
G SECTION
108



H SECTION
108

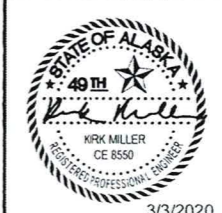


1 THRU-ROD & COVER DETAIL



2 TYPICAL DECK FASTENING

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

EDNA BAY HARBOR IMPROVEMENTS

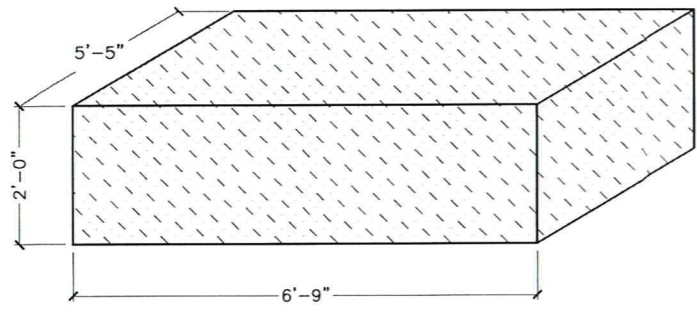
GANGWAY FLOAT DETAILS

3/3/2020

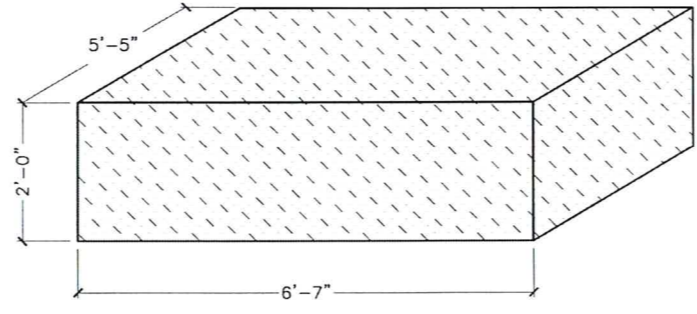
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 LAYOUT: 108
 DESIGNED: XXX
 CHECKED: STAFF
 DRAFTED: STAFF

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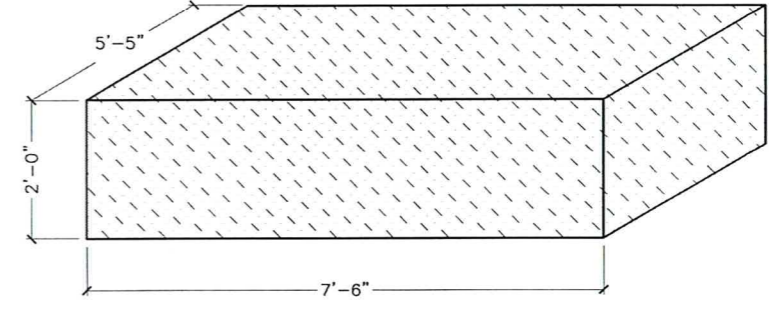
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HHARB00012	2020	109	33



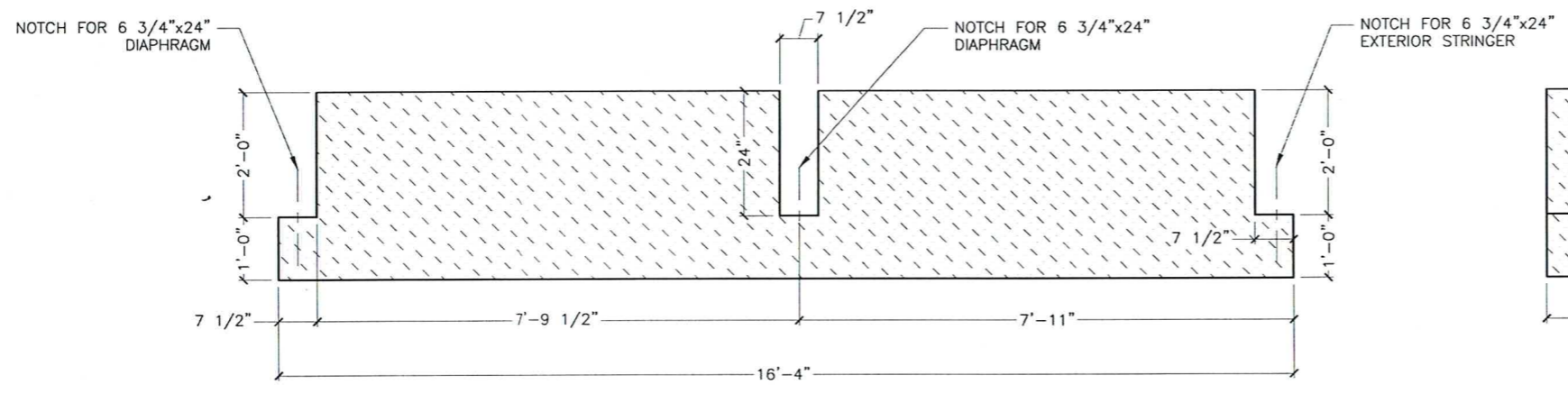
A BILLET
(4 EA. REQD)



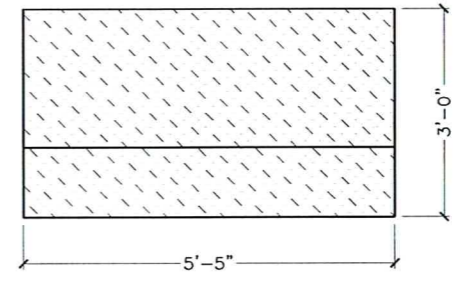
B BILLET
(4 EA. REQD)



C BILLET
(8 EA. REQD)



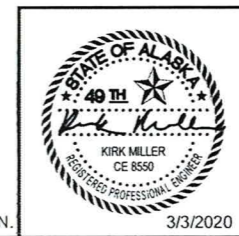
SIDE VIEW



END VIEW

D BILLET
(4 EA. REQD)

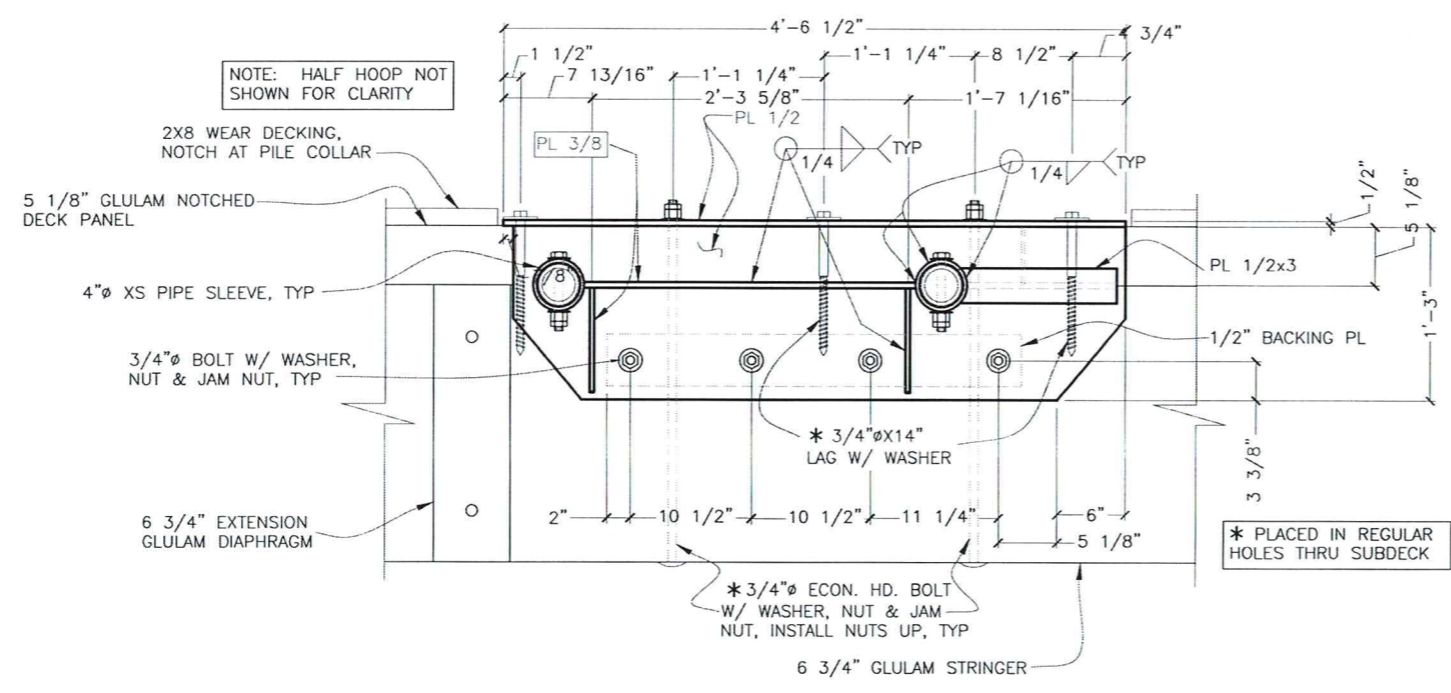
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



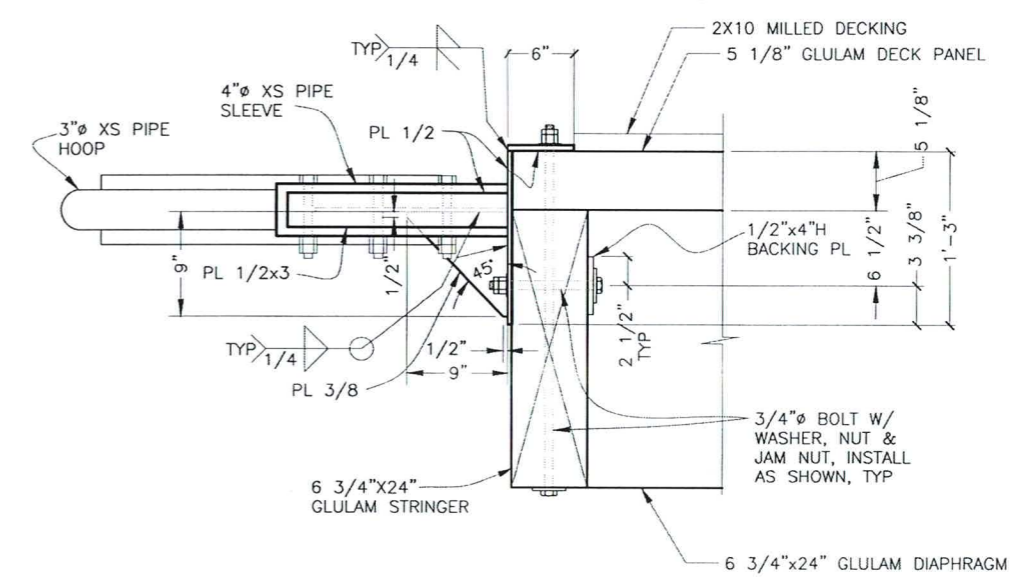
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763
EDNA BAY HARBOR IMPROVEMENTS
**GANGWAY FLOAT
FLOATATION BILLET DETAILS**

FILE: q:\Pow\hbarb00012\VF\PLANS\SET\final bid ready\110 - CW float Pile collar.dwg
 DATE: 1/15/2020 9:26 LAYOUT: 110 DESIGNED: XXX CHECKED: STAFF DRAFTED: STAFF

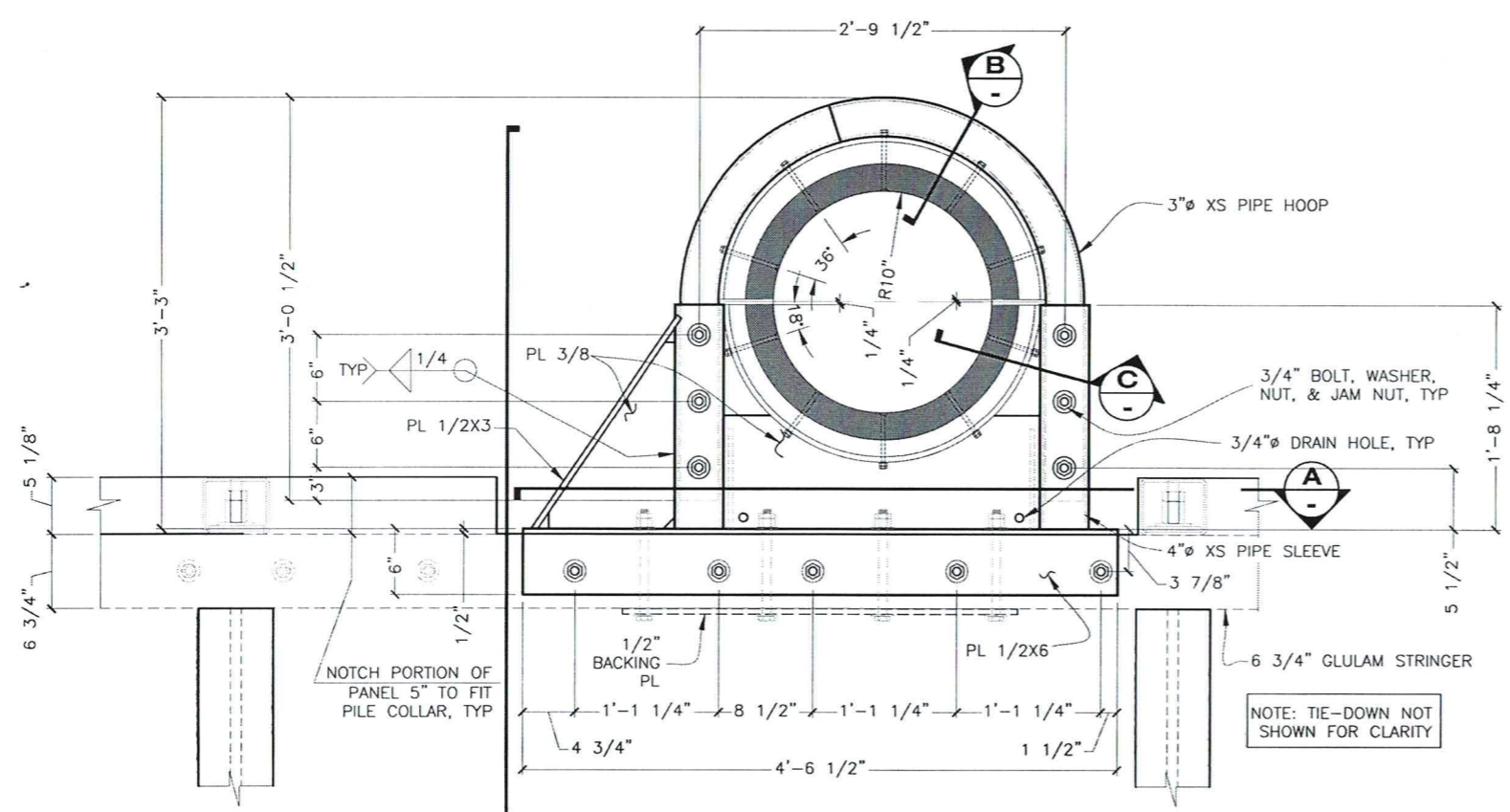
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			ALASKA	HHRB00012	2020	110	33



A SECTION

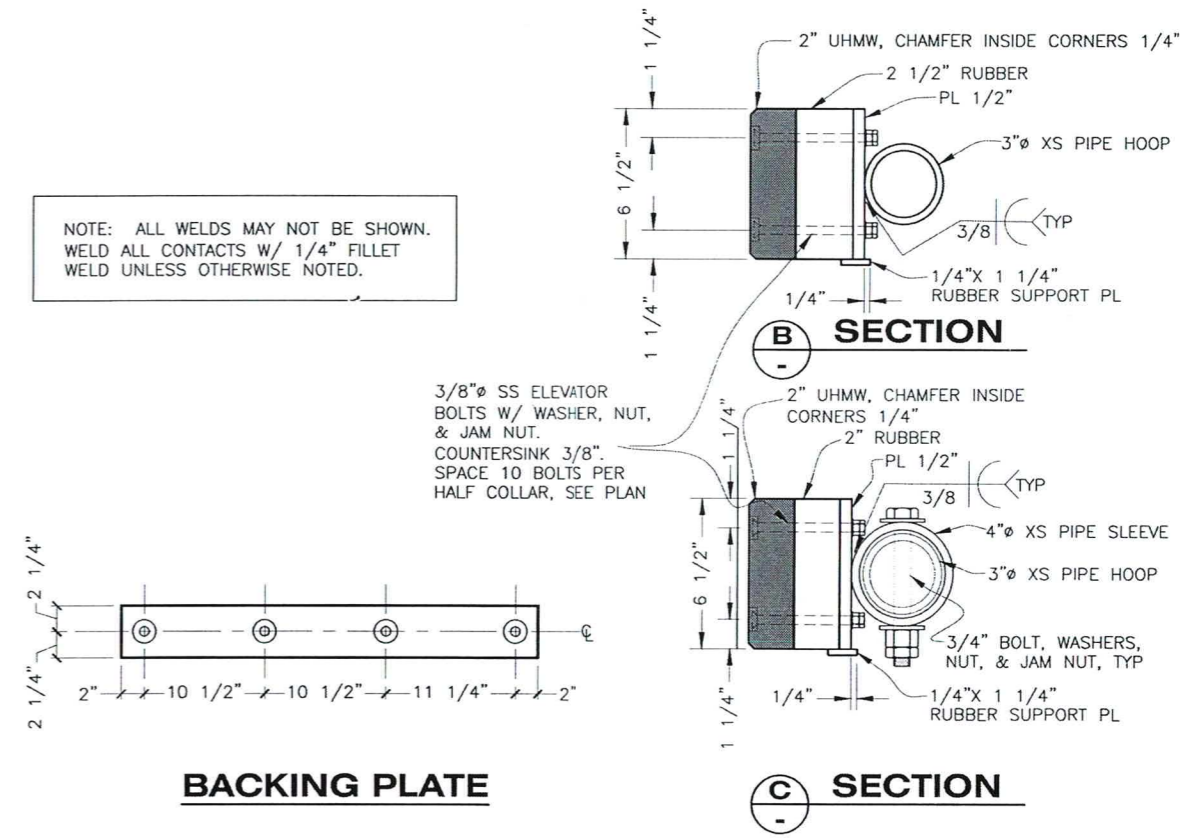


D SIDE VIEW



1 PILE COLLAR PLAN
(1 EA REQD)

NOTE: ALL WELDS MAY NOT BE SHOWN. WELD ALL CONTACTS W/ 1/4" FILLET WELD UNLESS OTHERWISE NOTED.



BACKING PLATE

B SECTION

C SECTION



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

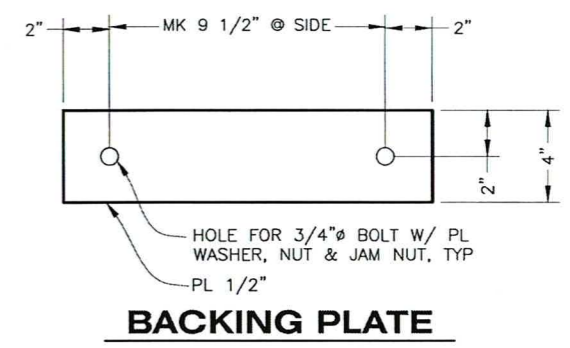
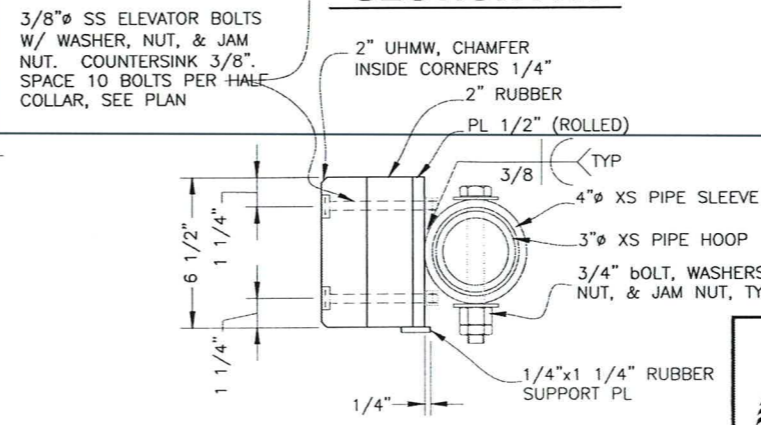
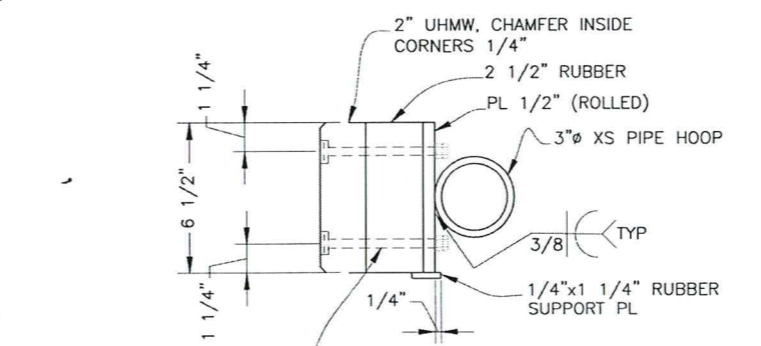
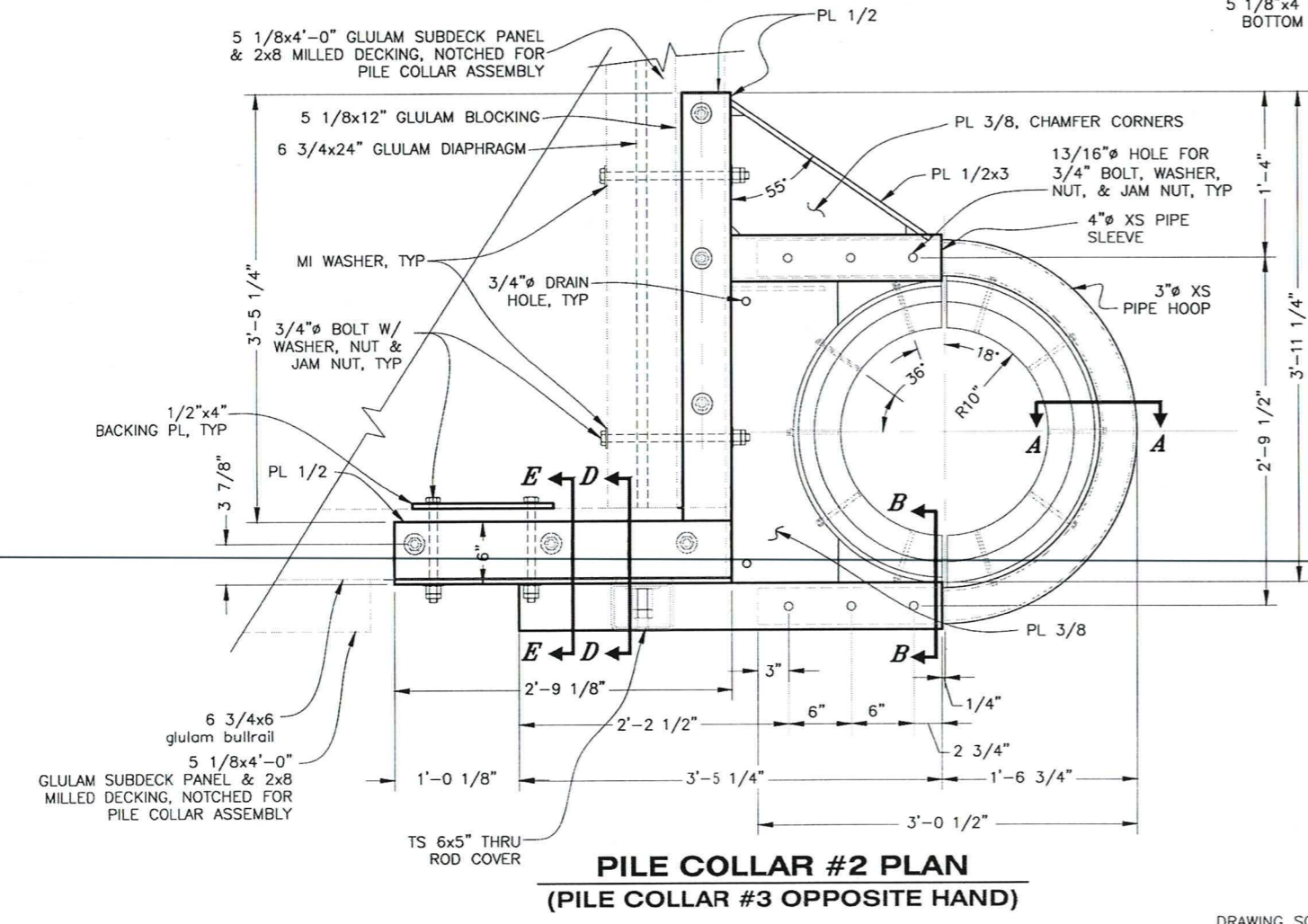
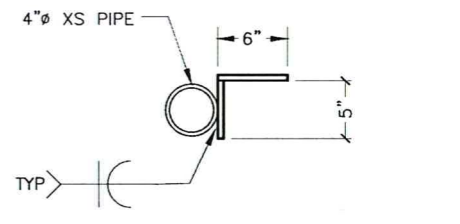
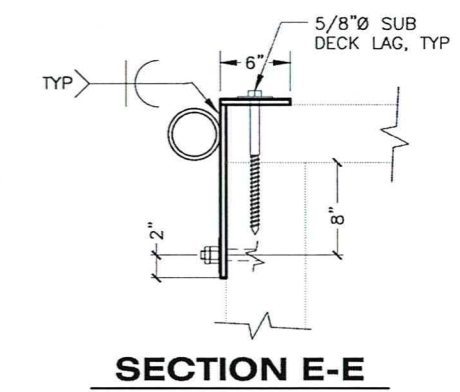
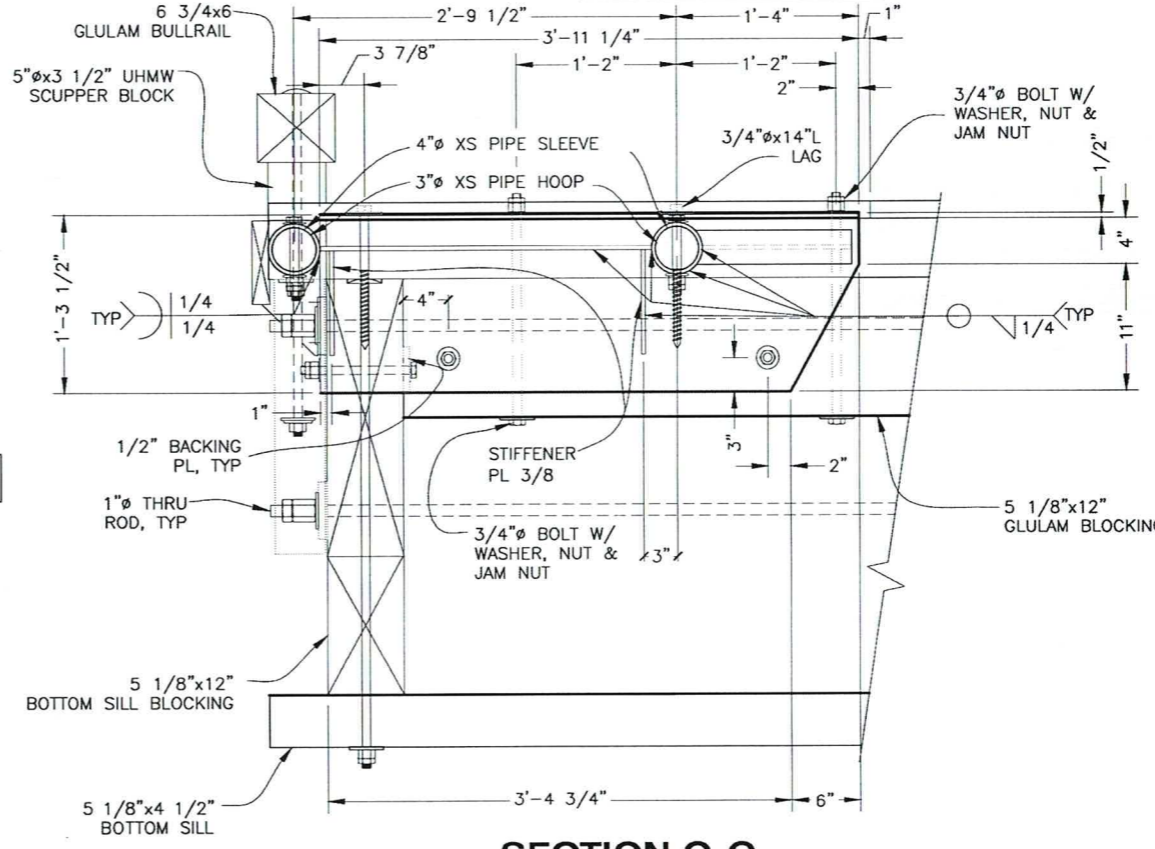
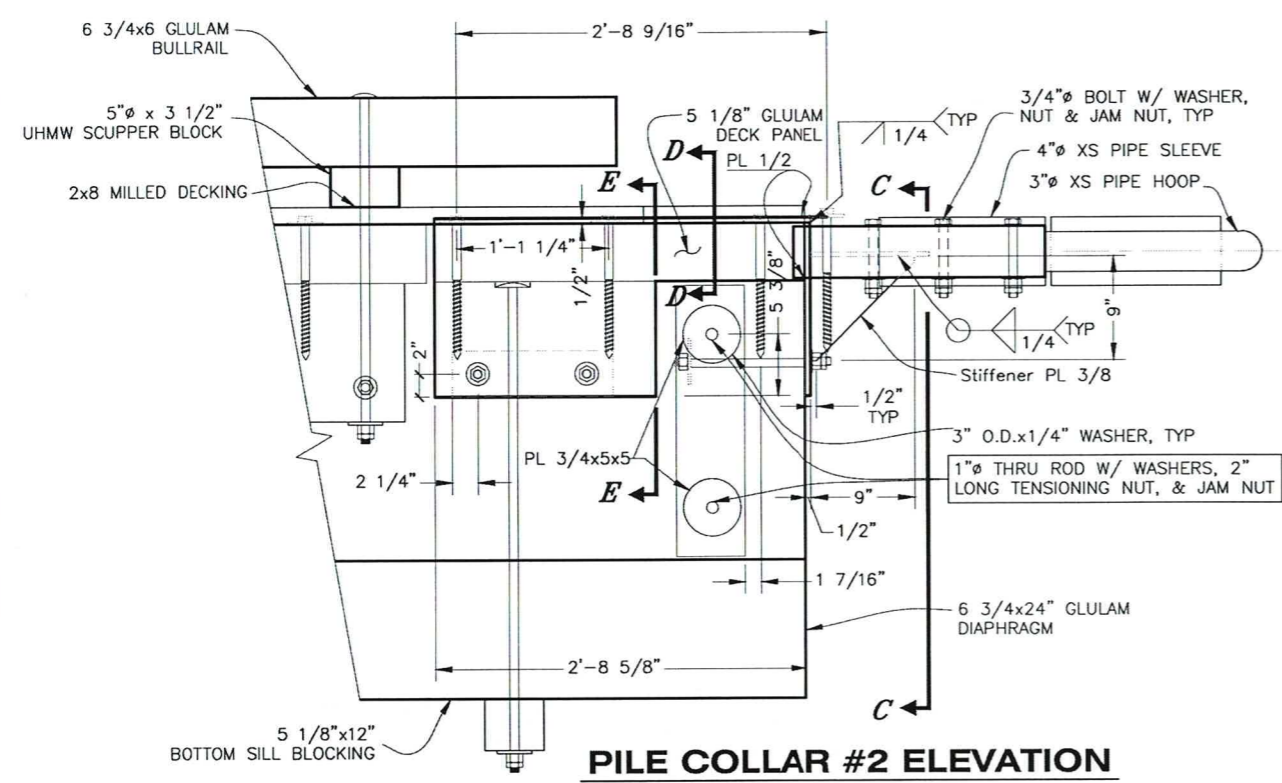
EDNA BAY HARBOR IMPROVEMENTS

GANGWAY FLOAT PILE COLLAR 1

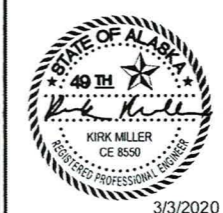
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/3/2020

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HARB00012	2020	111	33



NOTE: ALL WELDS MAY NOT BE SHOWN. WELD ALL CONTACTS W/ 1/4" FILLET WELD UNLESS OTHERWISE NOTED.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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EDNA BAY HARBOR IMPROVEMENTS

**GANGWAY FLOAT
PILE COLLARS 2 & 3**

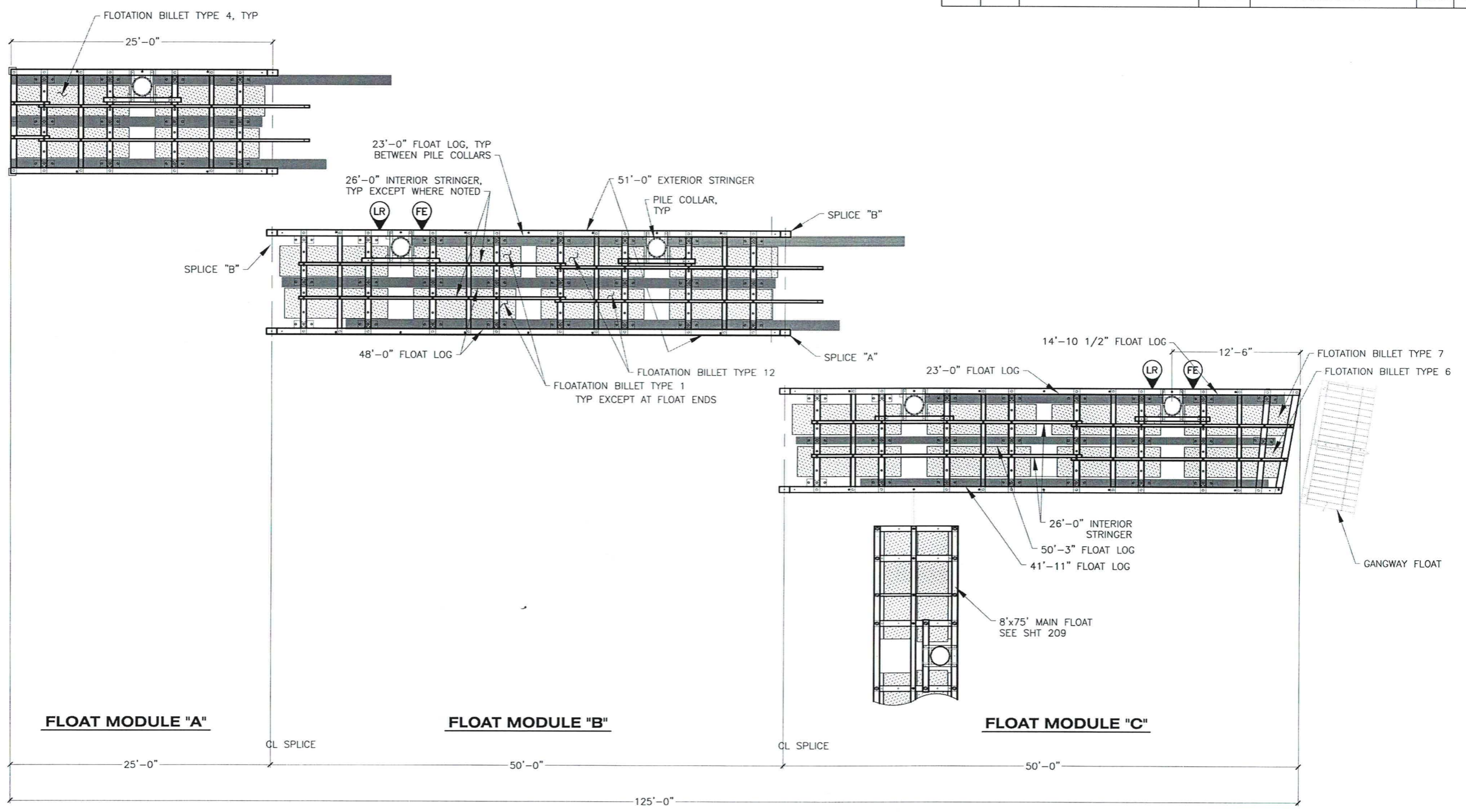
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/3/2020

FILE: P:\proj\harp0012\MF\PLANSET\final bid ready\111 - GW pile end collar.dwg
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 LAYOUT: 111
 DESIGNED: XXX
 CHECKED: STAFF
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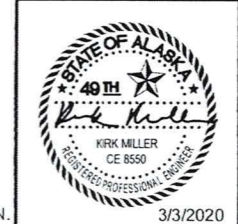
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			ALASKA	HARB00012	2020	201	33

FILE: q:\pov\hharb00012\WF\PLANSSET\final bid ready\201 - 10' x 125' Main Float Layout.dwg
 DATE: 1/15/2020 9:27 LAYOUT 201 DESIGNED XXX CHECKED STAFF DRAFTED STAFF



10'x125' MAIN FLOAT LAYOUT

- LEGEND:**
- LIFE RING CABINET LOCATION, SEE SHEET 215
 - FIRE EXTINGUISHER CABINET LOCATION, SEE SHEET 215



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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EDNA BAY HARBOR IMPROVEMENTS

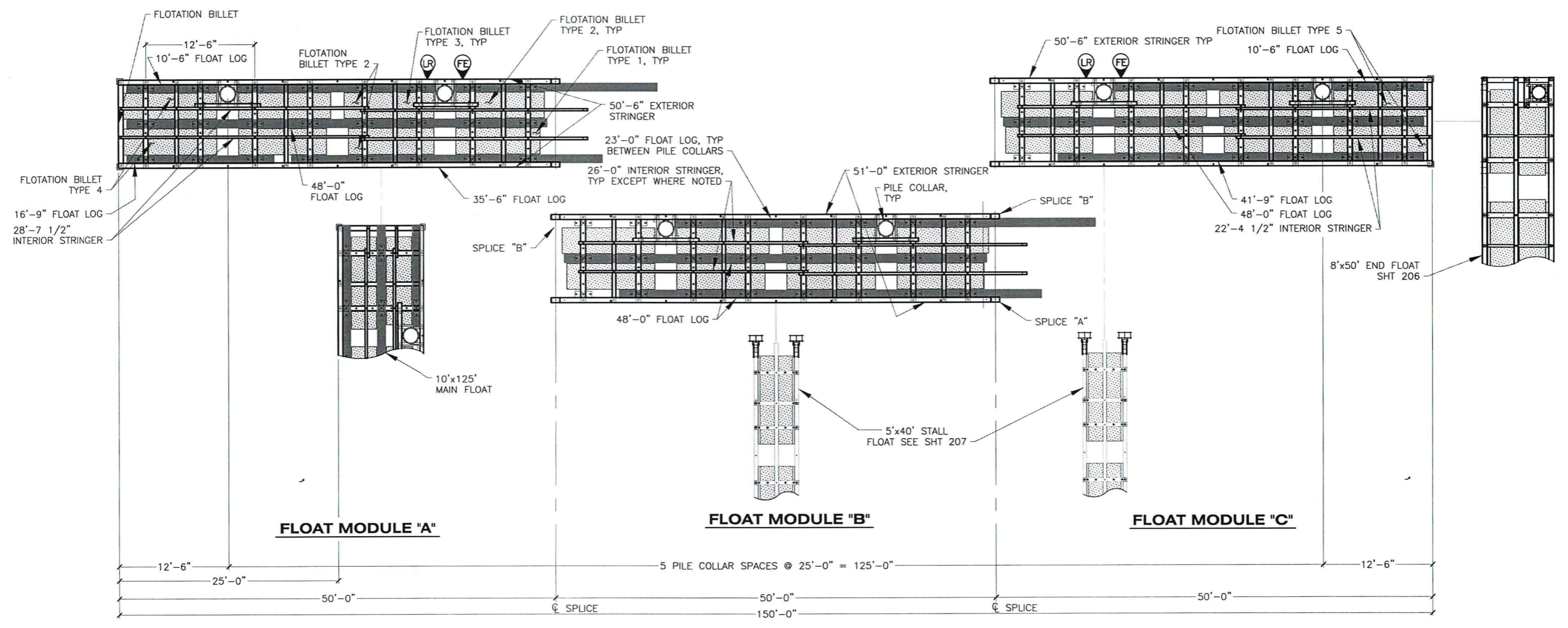
10'x125' MAIN FLOAT LAYOUT

3/3/2020

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HARB00012	2020	202	33

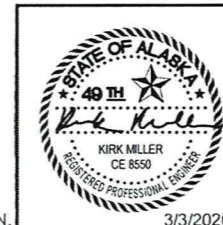
FILE: q:\Pow\hharb00012\WF\PLANSET\final bid ready\202 - 10' x 150' Timber Main Float Layout.dwg
 DATE: 8/30/2019 13:19 LAYOUT: 202 DESIGNED: XXX CHECKED: STAFF DRAFTED: STAFF



10'x150' MAIN FLOAT LAYOUT

LEGEND:

- LR** LIFE RING CABINET LOCATION, SEE SHEET 215
- FE** FIRE EXTINGUISHER CABINET LOCATION, SEE SHEET 215



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EDNA BAY HARBOR IMPROVEMENTS

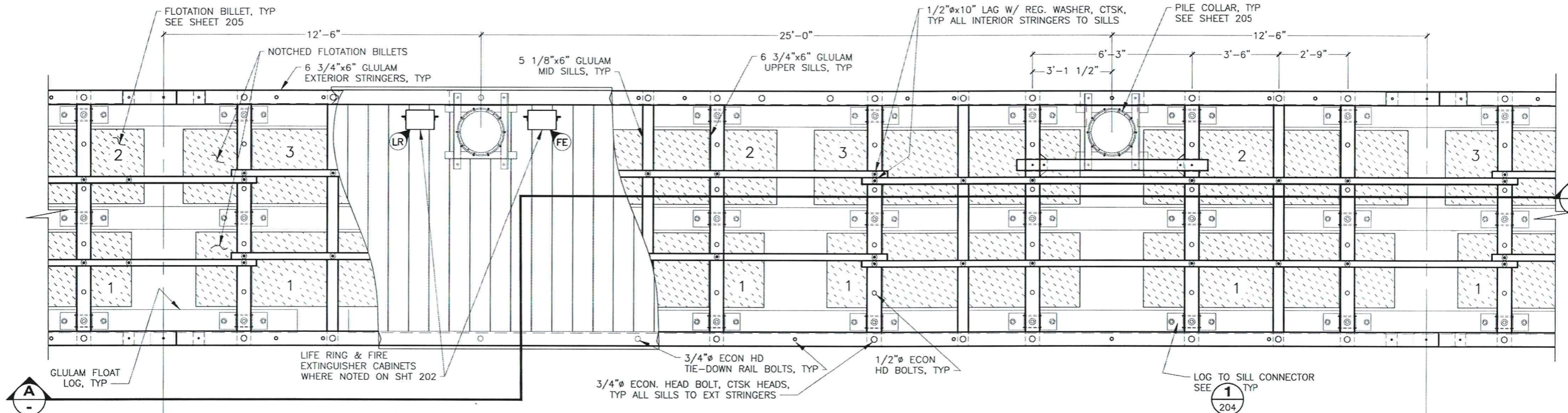
**10'x150' TIMBER MAIN
 FLOAT LAYOUT**

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

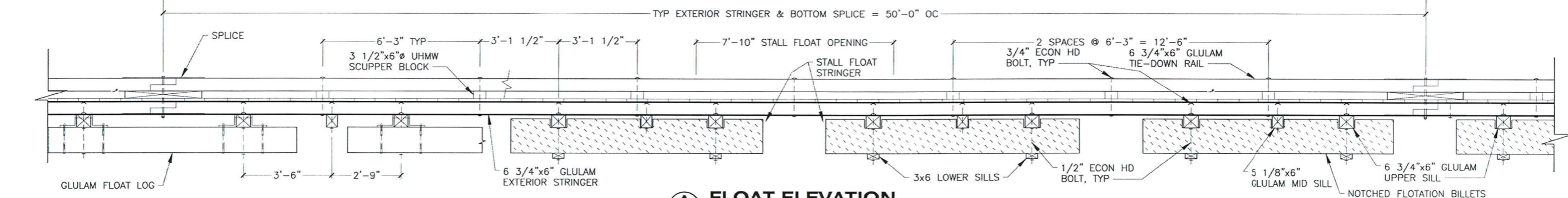
3/3/2020

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HARB00012	2020	203	33

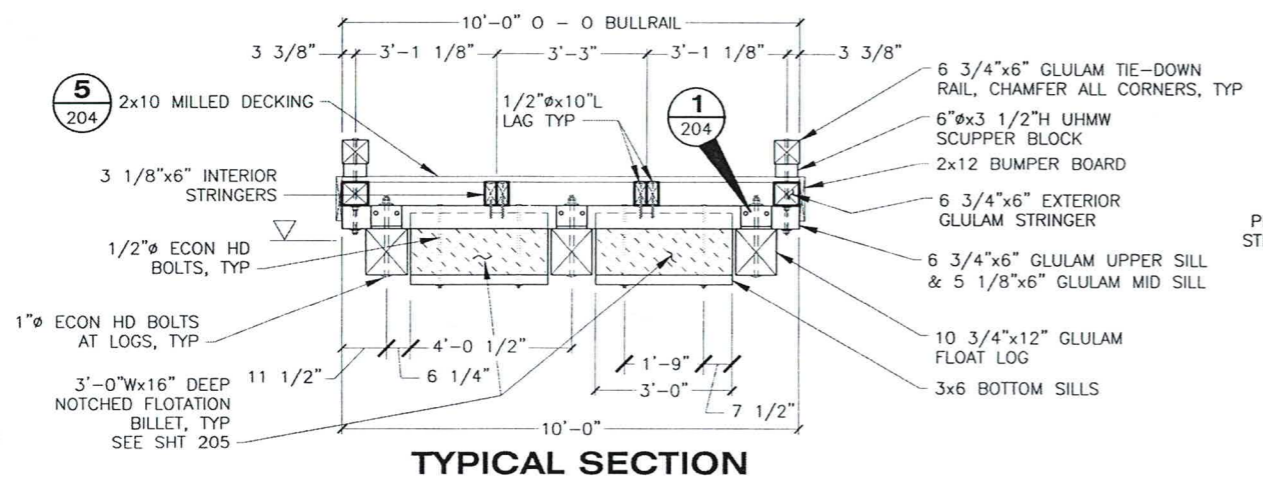
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 DATE: 9/5/2019 13:45
 LAYOUT: 203
 DESIGNED: XXX
 CHECKED: STAFF
 DRAFTED: STAFF



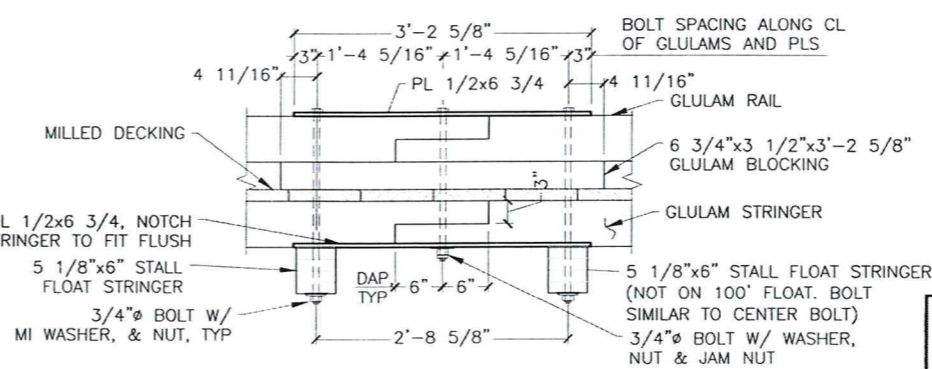
FLOAT MODULE "B" PLAN



FLOAT ELEVATION

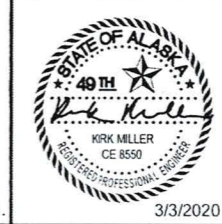


TYPICAL SECTION



TYPICAL SPLICE

- LEGEND:**
- LIFE RING CABINET
 - FIRE EXTINGUISHER CABINET
- NOTES:**
- 10'x150' SHOWN. 10'x100' FLOAT SIMILAR. SEE SHEETS XX & XX.
 - FLOTATION BILLET DETAILS, SEE SHEET 205.



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EDNA BAY HARBOR IMPROVEMENTS

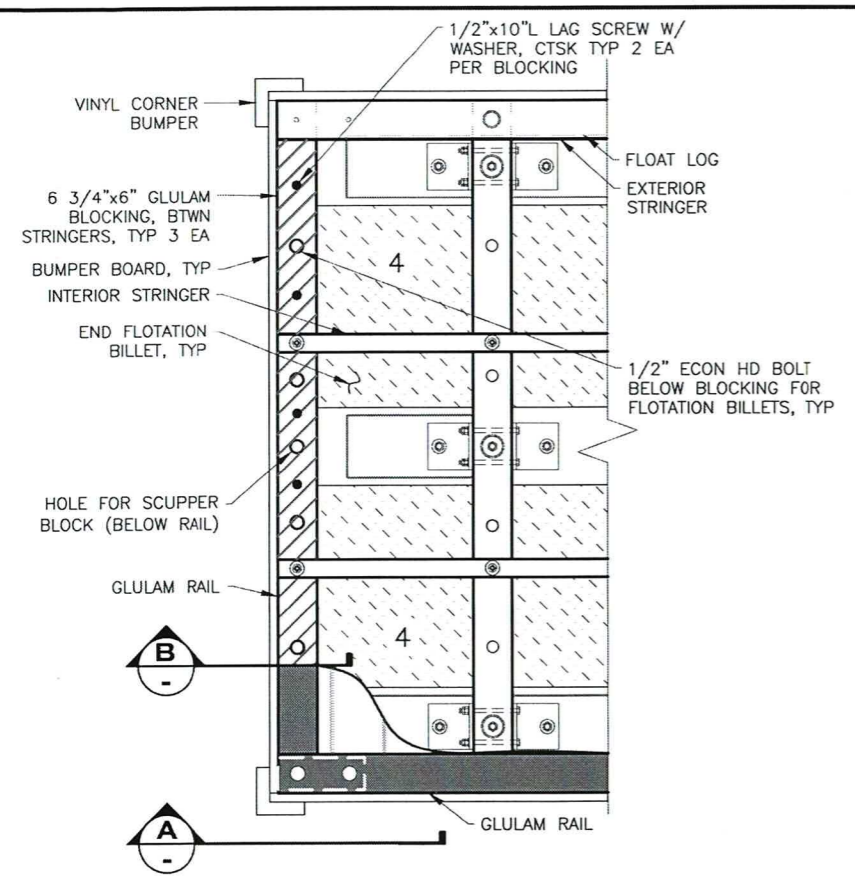
TYPICAL 10' WIDE MAIN FLOAT MODULE

3/3/2020

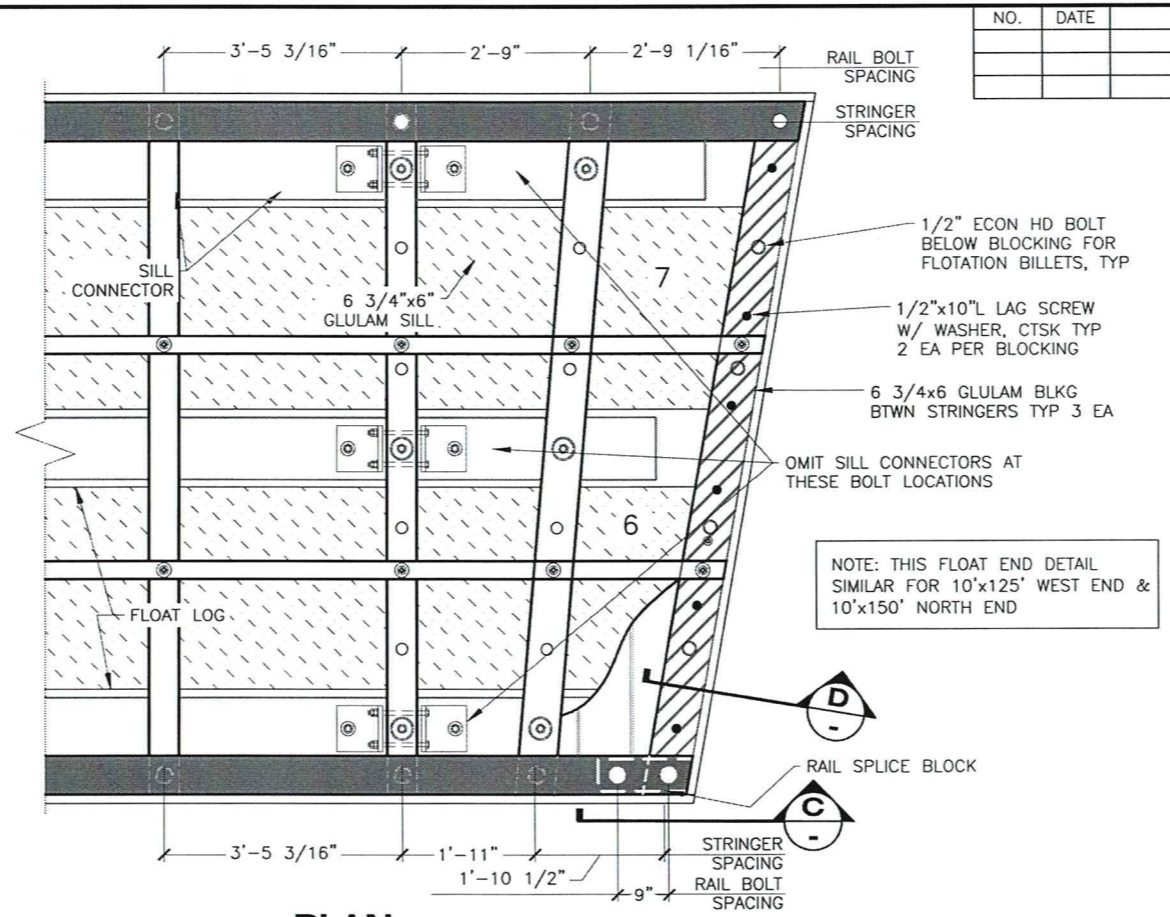
DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

FILE: P:\pww\hharb00012\WFLANSET\final bid ready\204 - 10' Wide Float Main Details.dwg
 DATE: 9/6/2019 9:25
 LAYOUT: 204
 DESIGNED: XXX
 CHECKED: STAFF
 DRAFTED: STAFF

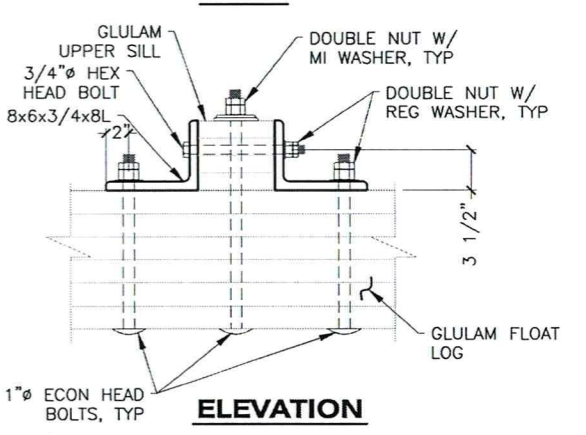
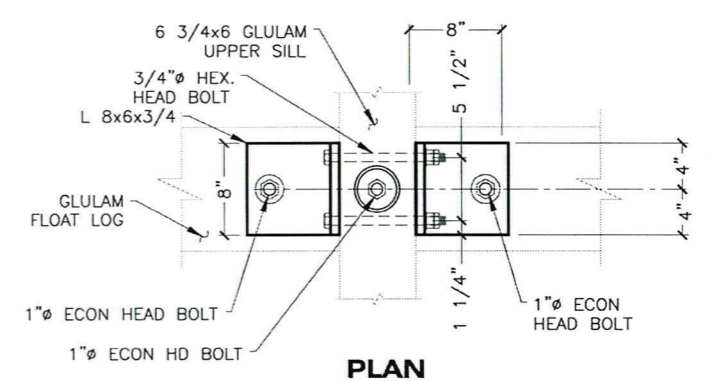
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HHARB00012	2020	204	33



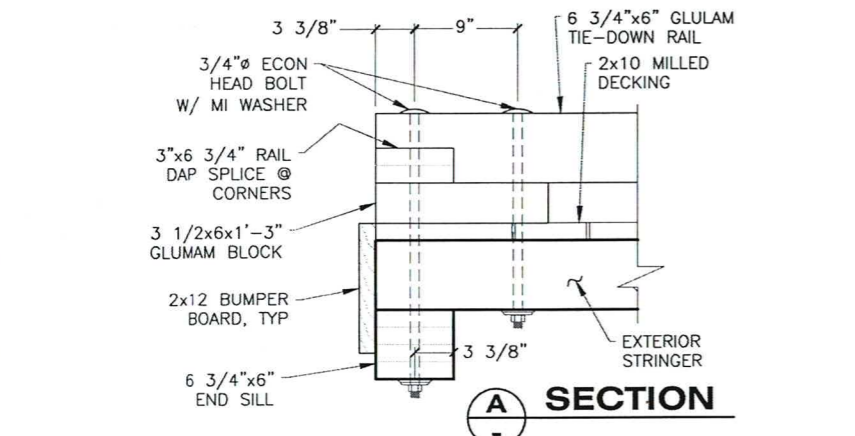
PLAN
10'x150' SOUTH END



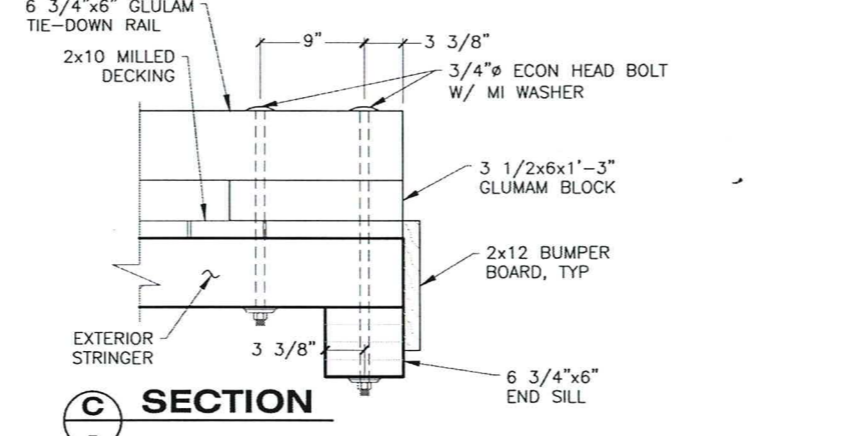
PLAN
10'x125' FLOAT ANGLED END



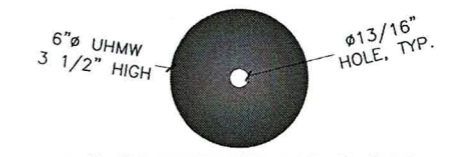
1
204 **LOG TO SILL CONNECTOR**



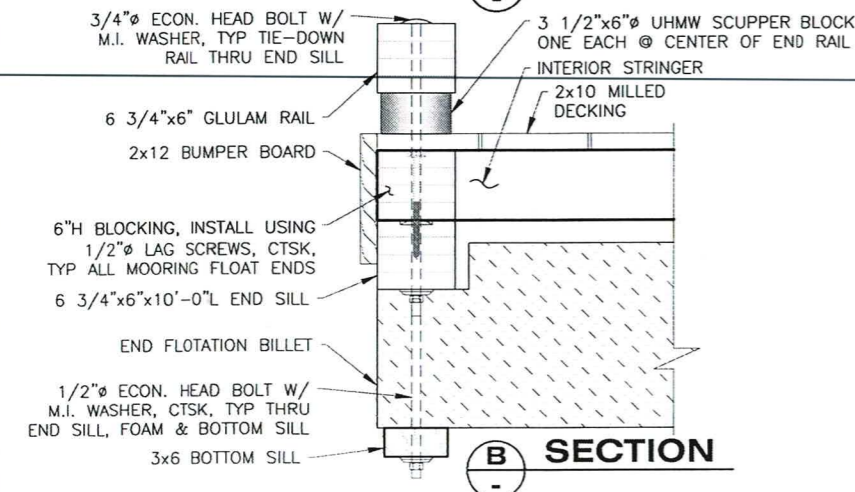
A
SECTION



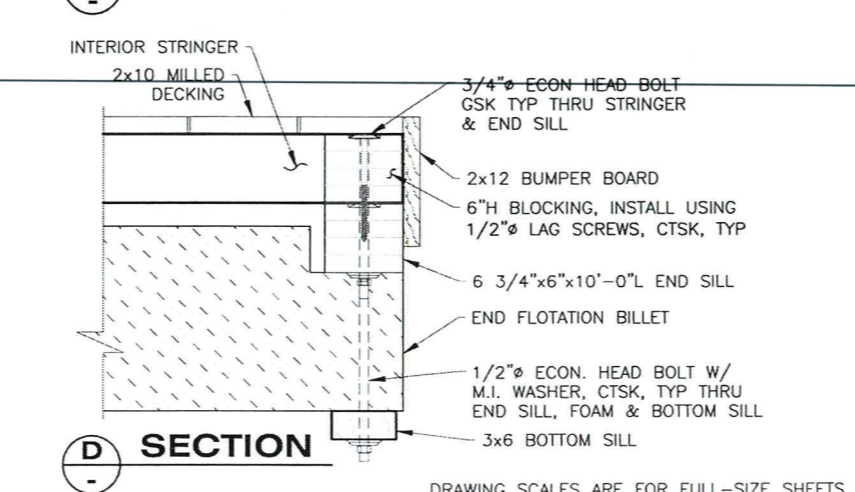
C
SECTION



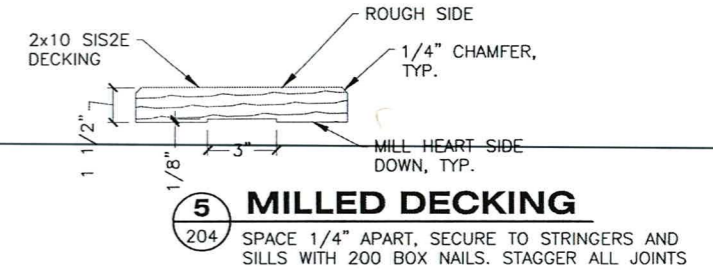
4
SCUPPER BLOCK



B
SECTION

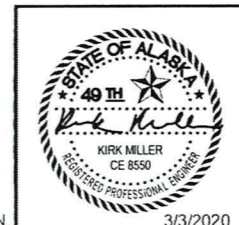


D
SECTION



5
204 **MILLED DECKING**
SPACE 1/4" APART, SECURE TO STRINGERS AND SILLS WITH 200 BOX NAILS. STAGGER ALL JOINTS

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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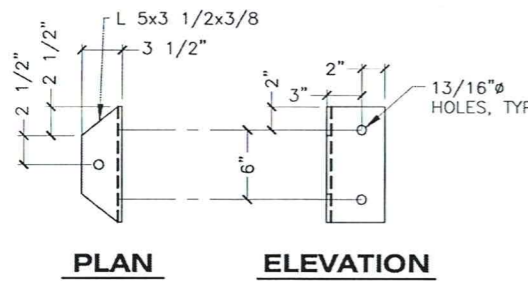
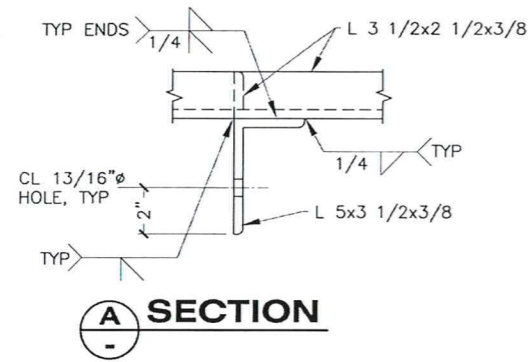
EDNA BAY HARBOR IMPROVEMENTS

10' WIDE MAIN FLOAT DETAILS

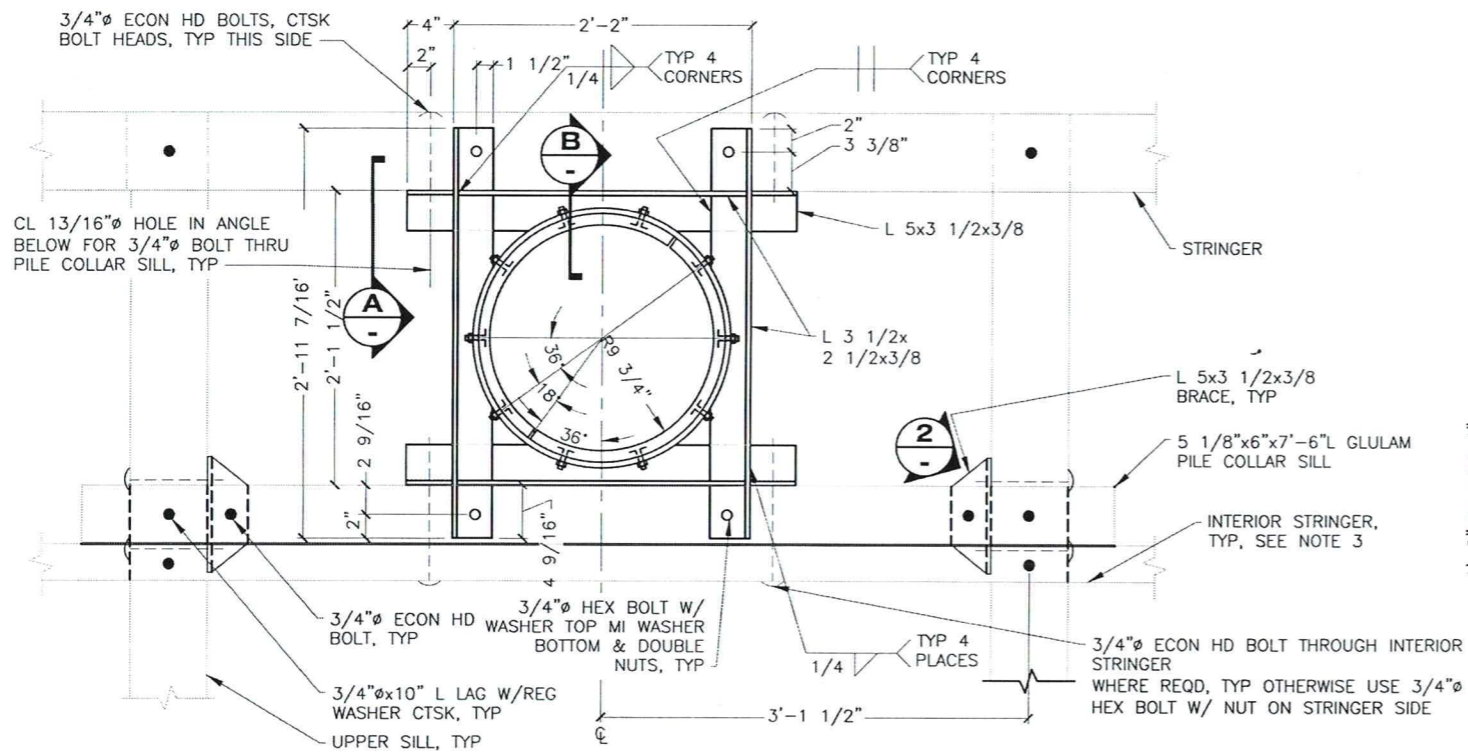
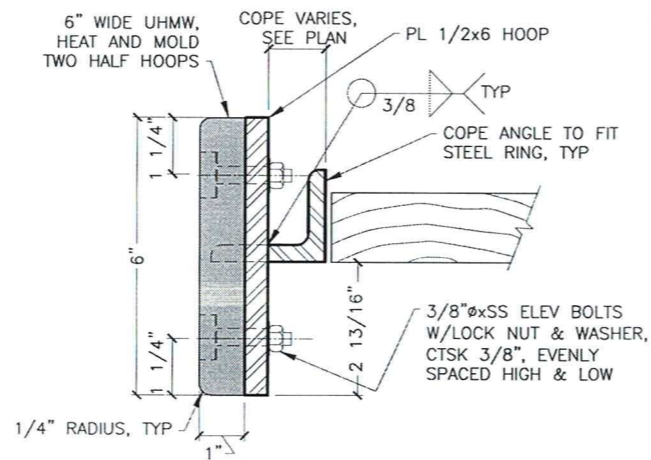
3/3/2020

FILE: q:\Pow\hharb0012\MF\PLANSET\final bid ready\205 - 10' Wide Main Float.dwg
 DATE: 9/8/2019 11:11 LAYOUT: 205
 DESIGNED: XXX
 CHECKED: STAFF
 DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HHRB00012	2020	205	33



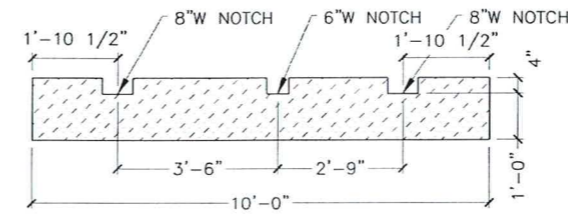
2
ANGLE BRACE



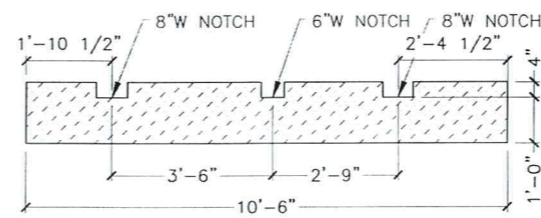
1
INTERIOR PILE COLLAR DETAIL
(FOR 16"Ø PILE)

PILE COLLAR NOTES

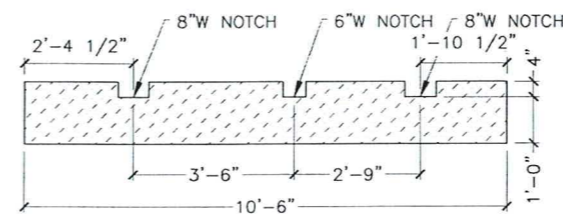
- MATCH DECK BOARDS FLUSH W/ EDGES OF PILE COLLARS. NOTCH DECK BOARDS AROUND COLLAR ANGLES ENDS.
- SPLICE BOLT LENGTHS VARY DEPENDING ON THICKNESS OF BULLRAIL.
- INTERIOR STRINGERS ARE STAGGERED AS SHOWN ON FLOAT LAYOUT SHEETS. LENGTHS FOR BOLTS THROUGH PILE COLLAR & PILE COLLAR SILL VARY DEPENDING ON STRINGER LOCATION.



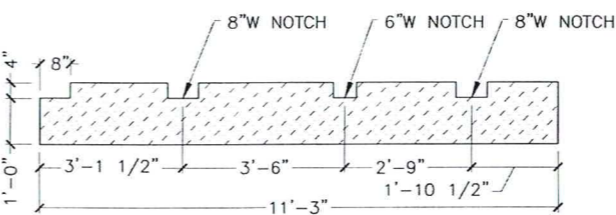
FLOTATION BILLET TYPE 1



FLOTATION BILLET TYPE 2

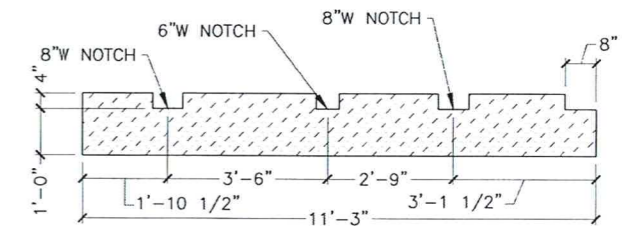


FLOTATION BILLET TYPE 3

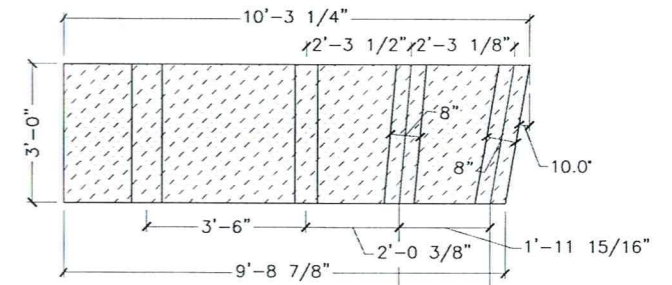


FLOTATION BILLET TYPE 4

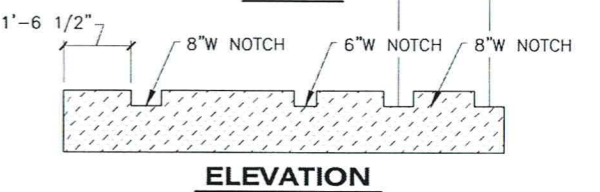
NOTE: ALL FLOTATION BILLETS ARE 3'-0" WIDE.



FLOTATION BILLET TYPE 5

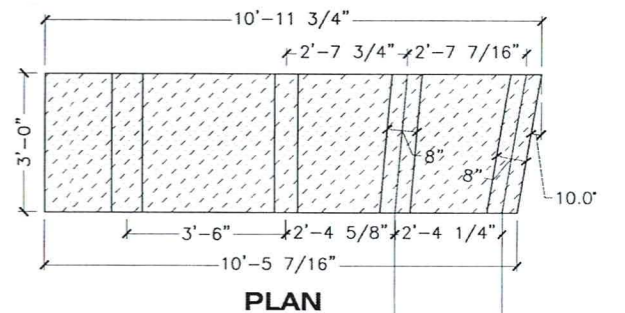


PLAN

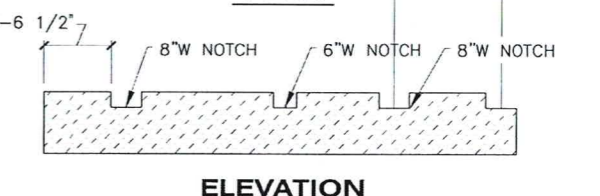


ELEVATION

FLOTATION BILLET TYPE 6

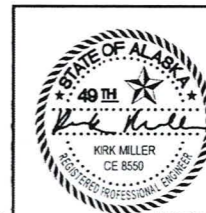


PLAN



ELEVATION

FLOTATION BILLET TYPE 7

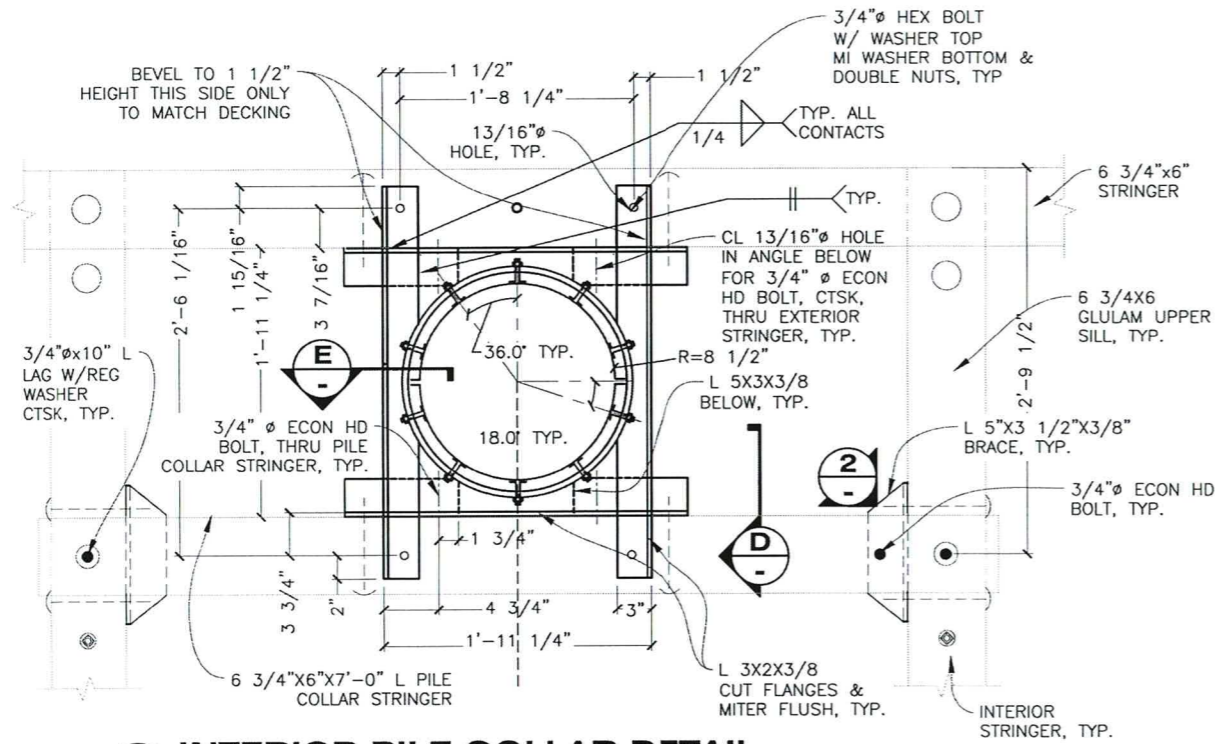


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(907) 465-1763

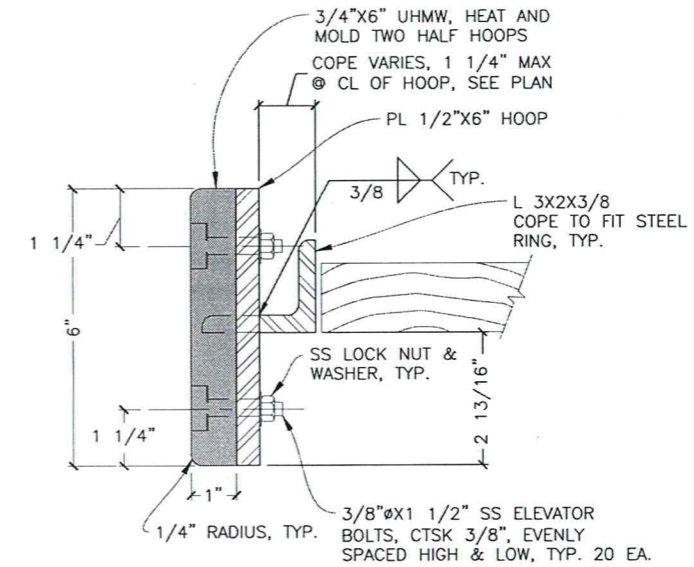
EDNA BAY HARBOR IMPROVEMENTS

10' WIDE MAIN FLOAT DETAILS

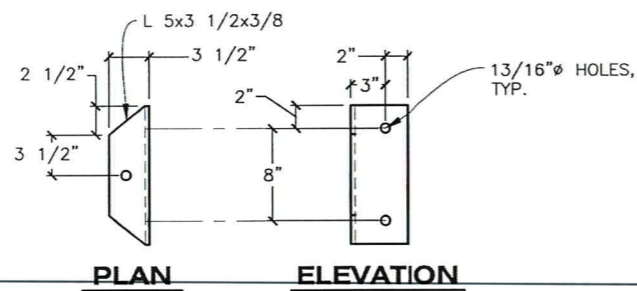
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HARB00012	2020	208	33



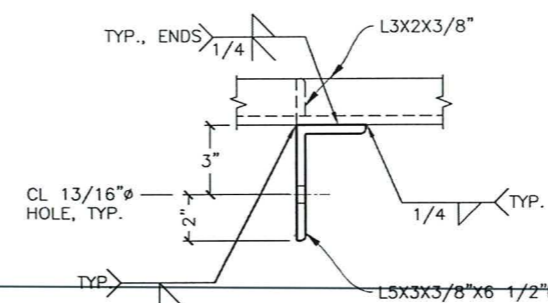
1
208
INTERIOR PILE COLLAR DETAIL
(FOR 12 3/4" ϕ PILE)



E
SECTION

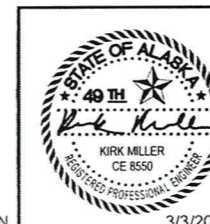


2
DETAIL
ANGLE BRACE



D
SECTION

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

EDNA BAY HARBOR IMPROVEMENTS

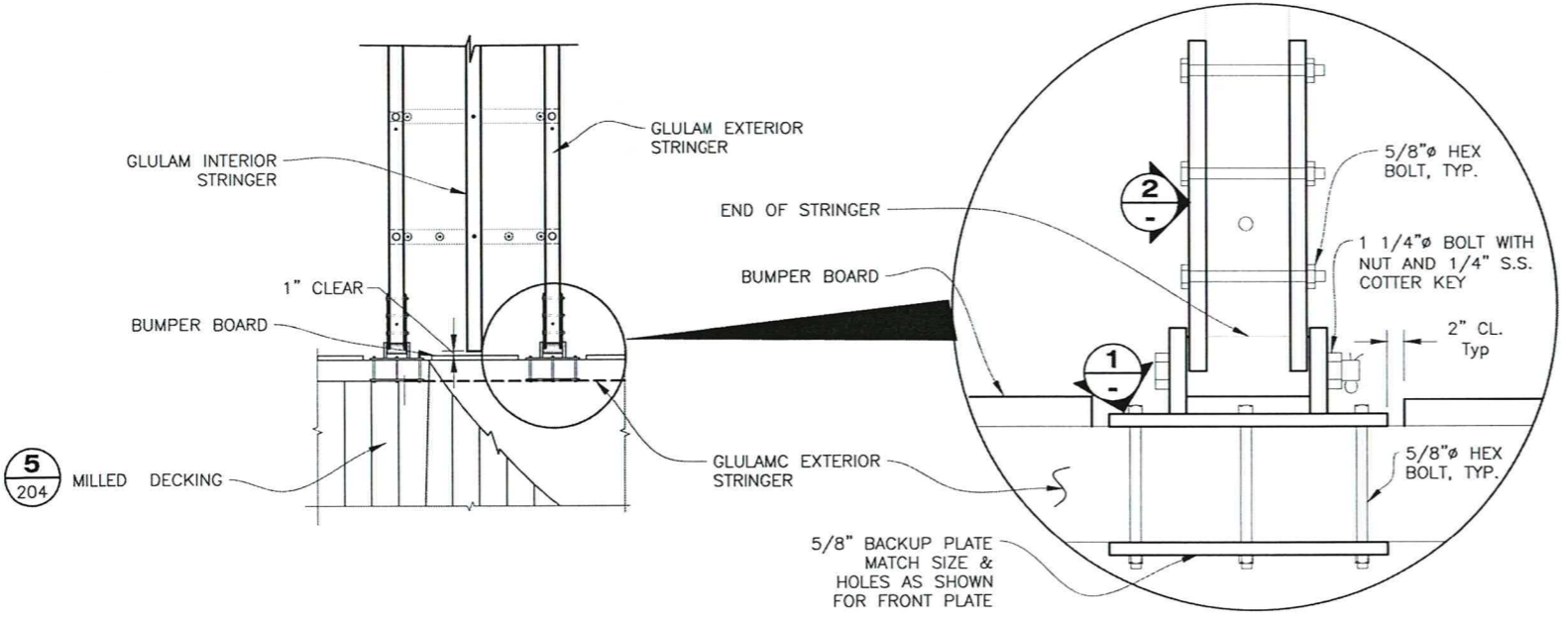
8' WIDE FLOAT DETAILS

3/3/2020

FILE q:\Pow\hharb00012\WF\PLANSET\final bid ready_208 - 8' Wide Float Details.dwg DATE 9/6/2019 11:14 LAYOUT 208 DESIGNED XXX CHECKED STAFF DRAFTED STAFF

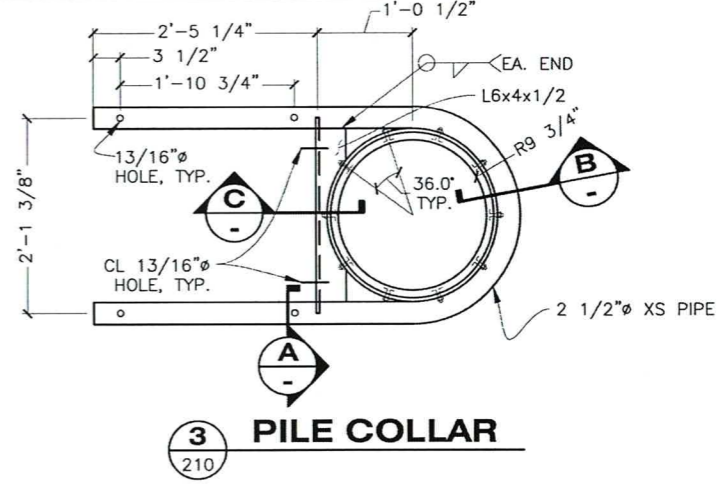
FILE: P:\Pov\Hharb0012\MF\PLANSET\final bid ready\210 - 5' x 40' Stall Float Details.dwg
 DATE: 1/13/2020 11:34 LAYOUT: 210
 DESIGNED: XXX CHECKED: STAFF DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HHARB00012	2020	210	33

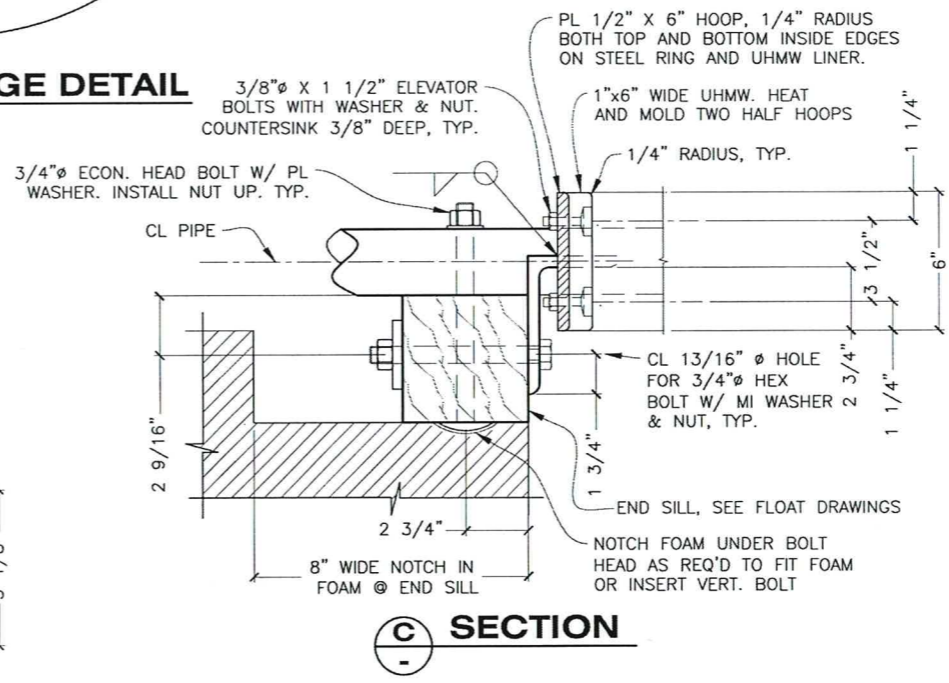


TYP HINGE CONNECTION PLAN

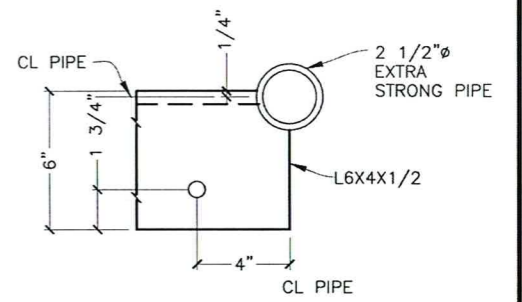
ENLARGED HINGE DETAIL



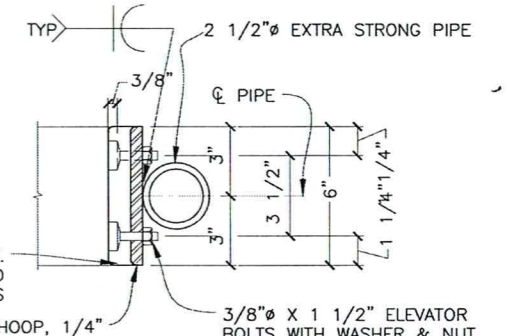
3 PILE COLLAR



C SECTION

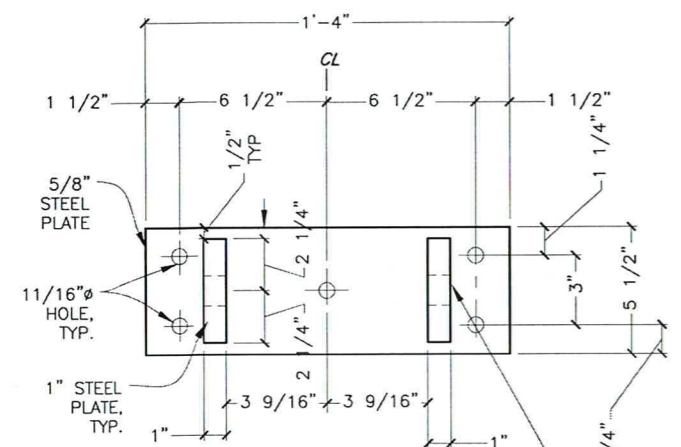


A SECTION

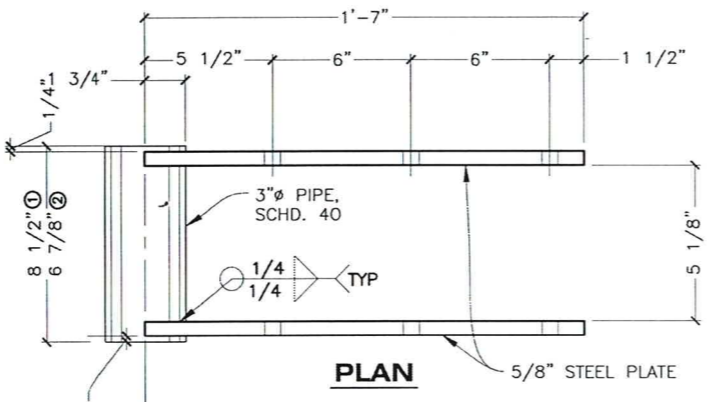


B SECTION

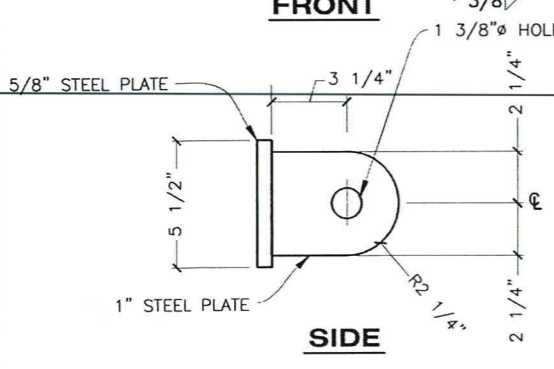
- PILE COLLAR NOTES:**
1. ALL WELDS ON INSIDE OF STEEL RING SHALL BE GROUND SMOOTH.
 2. UHMW POLY LINERS, AS SHOWN, WITH 10 BOLTS PER CIRCULAR HALF COLLAR. UHMW POLY LINERS SHALL BE HEATED AND THEN MOLDED TO THE SHAPE SHOWN ON THE DETAILS.
 3. THE POLY LINER SECURING BOLTS SHALL BE COUNTERSUNK AS SHOWN.
 4. SECURE ALL PILE COLLARS TO PILE COLLAR STRINGER W/ 3/4" HEX HEAD BOLTS W/ MI WASHERS, TYP. UNLESS OTHERWISE NOTED.
 5. MATCH DECK BOARDS FLUSH W/ EDGES OF INTERIOR PILE COLLARS. NOTCH DECK BOARDS AROUND COLLAR ANGLES WHEN REQUIRED.



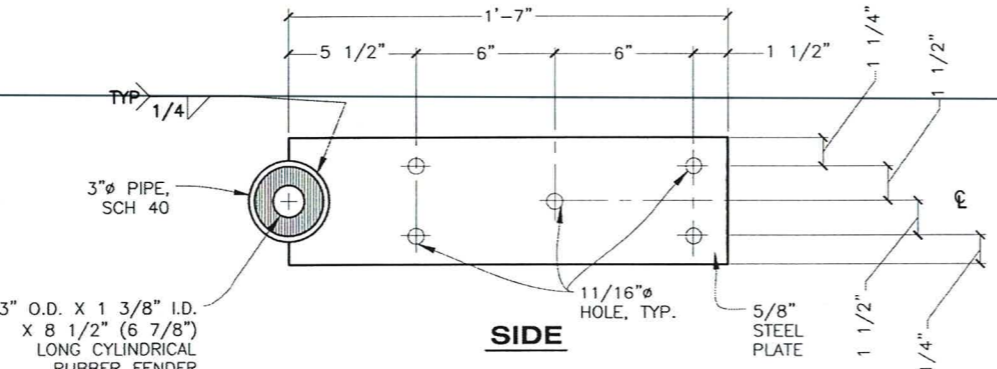
FRONT



PLAN



SIDE

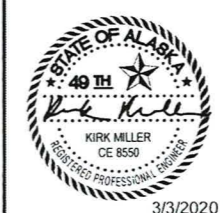


SIDE

1 HINGE WELDMENT

2 HINGE WELDMENT

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



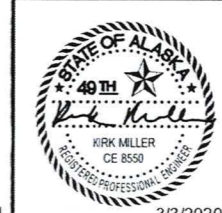
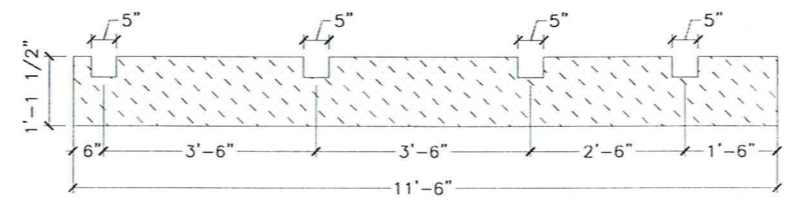
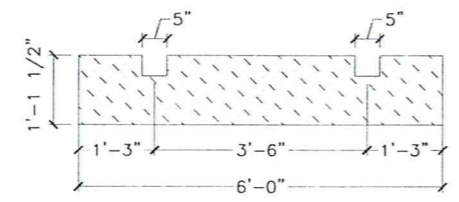
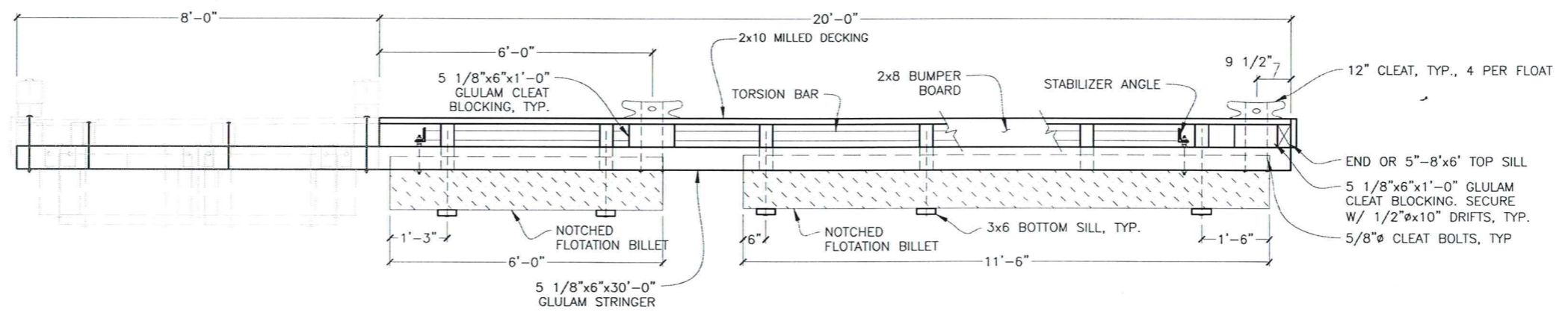
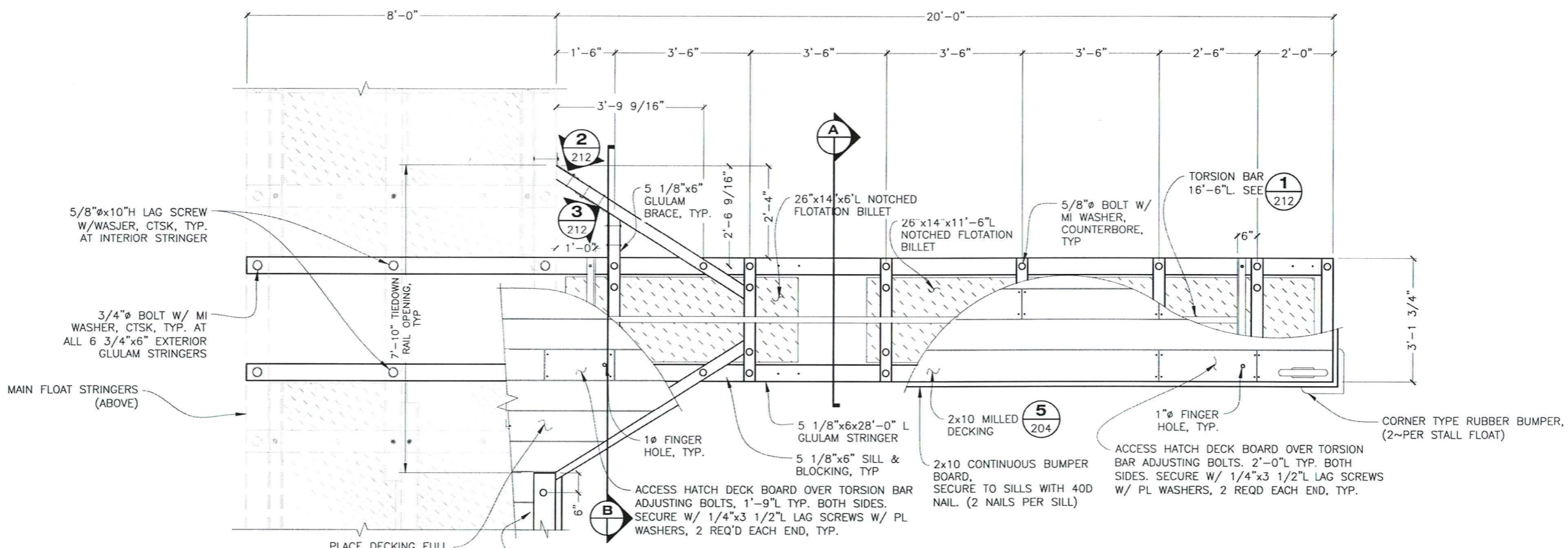
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

EDNA BAY HARBOR IMPROVEMENTS

5'x40' STALL FLOAT DETAILS

3/3/2020

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HARB00012	2020	211	33



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(907) 465-1763

EDNA BAY HARBOR IMPROVEMENTS

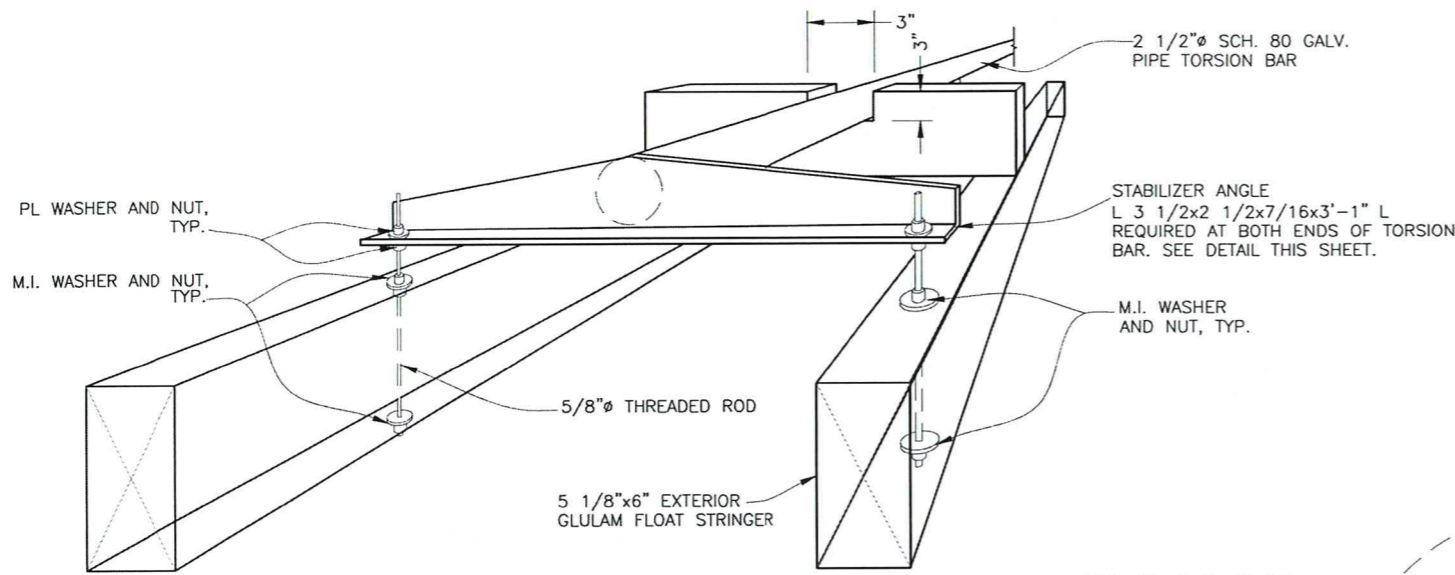
3'x20' STALL FLOATS

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

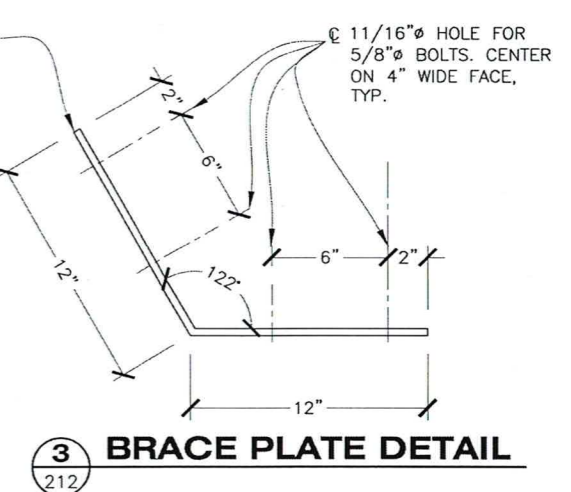
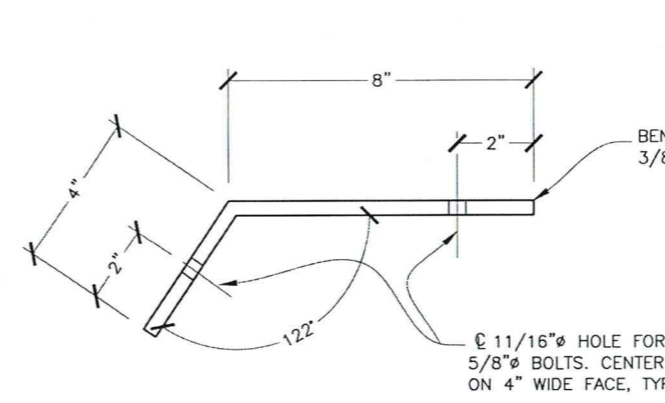
3/3/2020

FILE: q:\Pov\hharb00012\MP\PLANSET\final bid read\211 - 3' x 20' Stall Floats.dwg
DATE: 9/13/2019 15:03 LAYOUT: 211 DESIGNED: XXX CHECKED: STAFF DRAFTED: STAFF

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HARB00012	2020	212	33



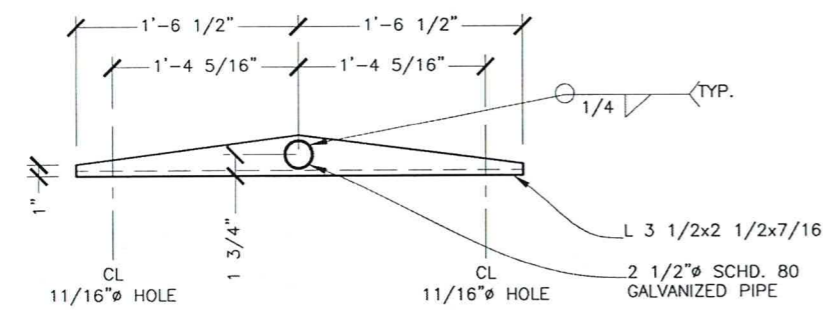
TO LEVEL FLOAT, TAKE-UP ON NUTS AS REQUIRED. LOOSEN NUTS ON OPPOSITE SIDE OF ANGLE IRON BEFORE ATTEMPTING ADJUSTMENT IN ORDER TO ALLOW UNRESTRICTED ROTATION. ADJUST ALL FLOATS.



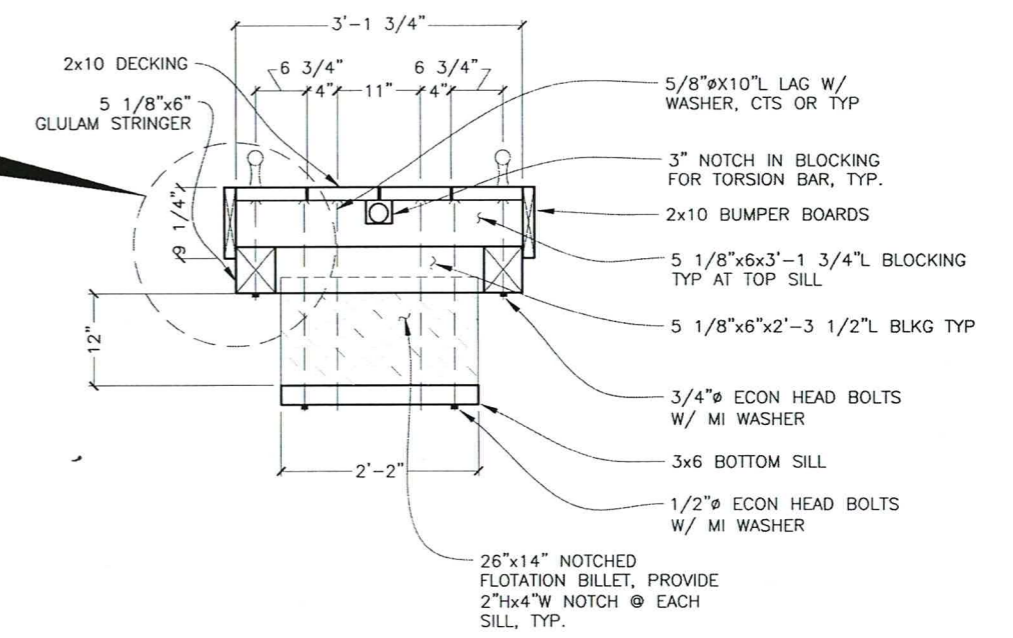
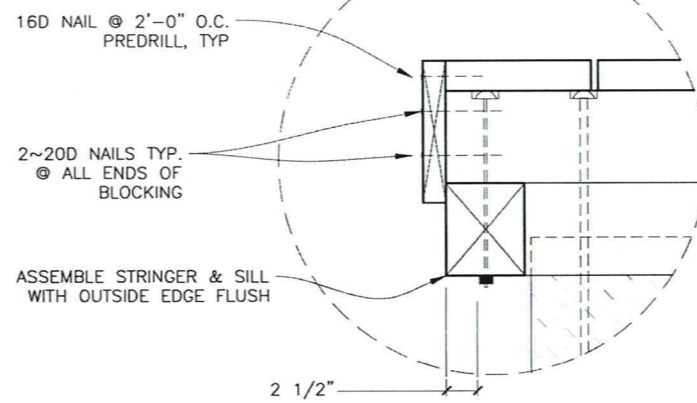
1 **STALL FLOAT STABILIZER DETAIL ISOMETRIC**

2 **BRACE PLATE DETAIL**

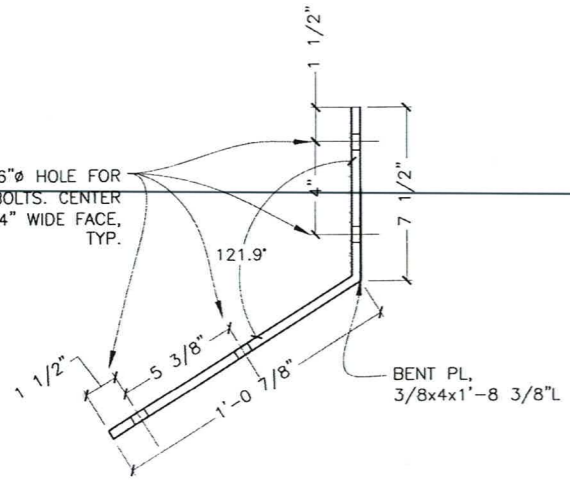
3 **BRACE PLATE DETAIL**



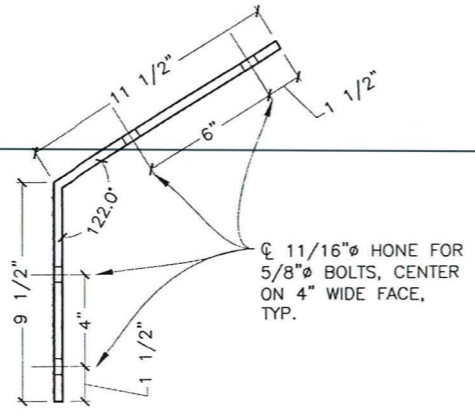
STABILIZER ANGLE DETAIL END VIEW



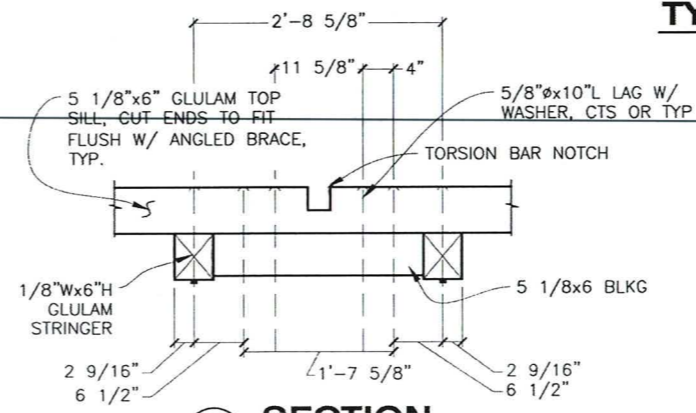
TYPICAL 3' WIDE STALL FLOAT SECTION



4 **BRACE PLATE DETAIL**

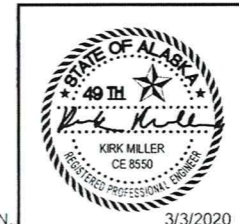


5 **BRACE PLATE DETAIL**



B **SECTION**

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



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EDNA BAY HARBOR IMPROVEMENTS

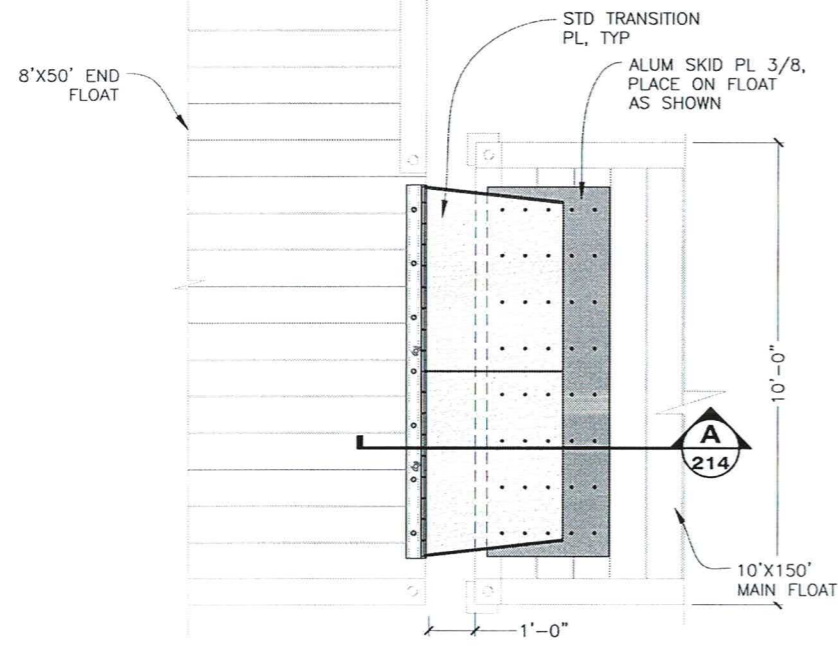
3'x20' STALL FLOAT DETAILS

3/3/2020

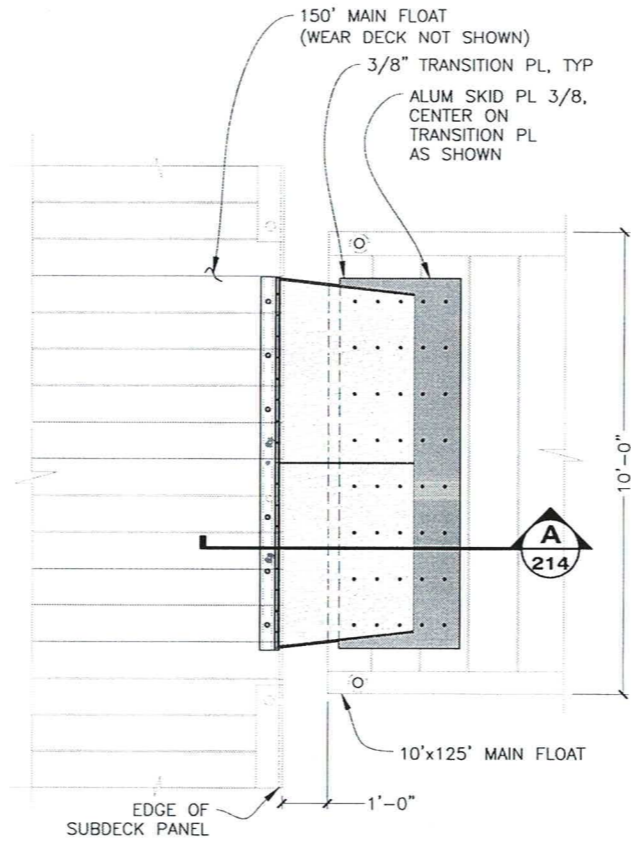
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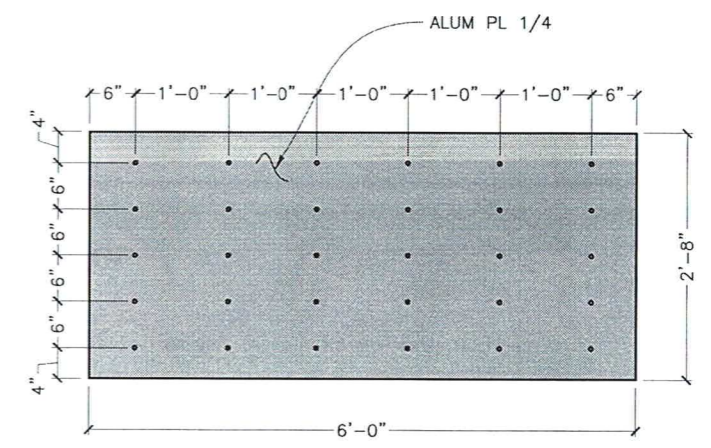
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HARB00012	2020	213	33



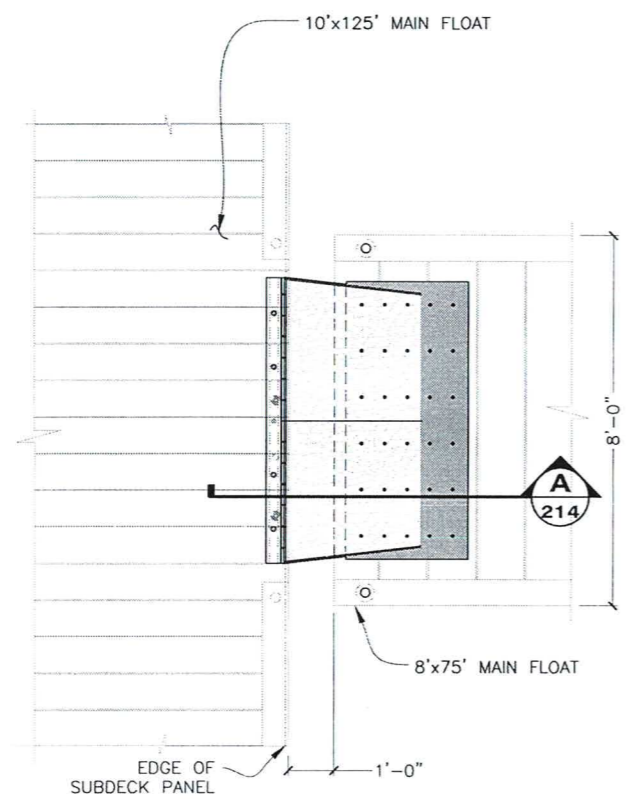
**END FLOAT TO 150' MAIN FLOAT
TRANSITION PL PLAN**



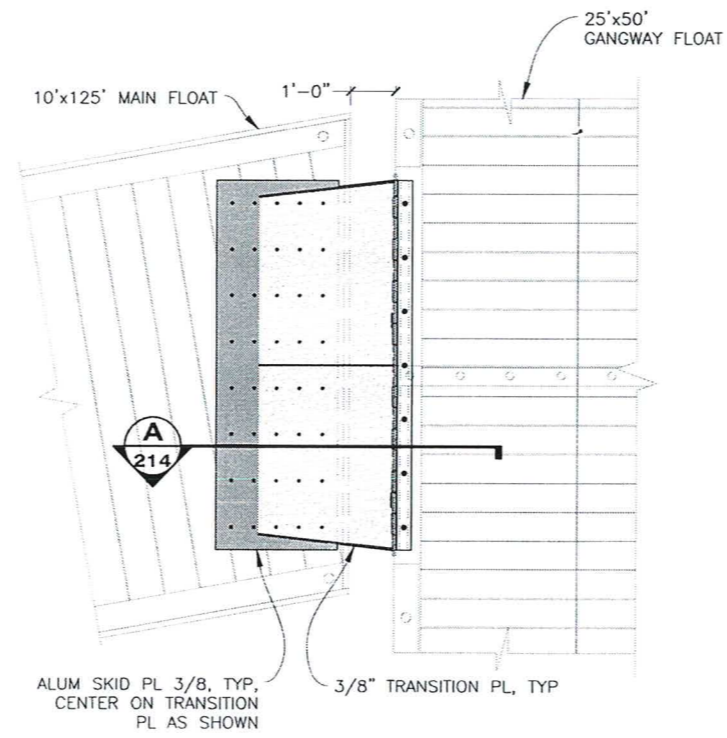
**150' MAIN FLOAT TO 125' MAIN FLOAT
TRANSITION PL PLAN**



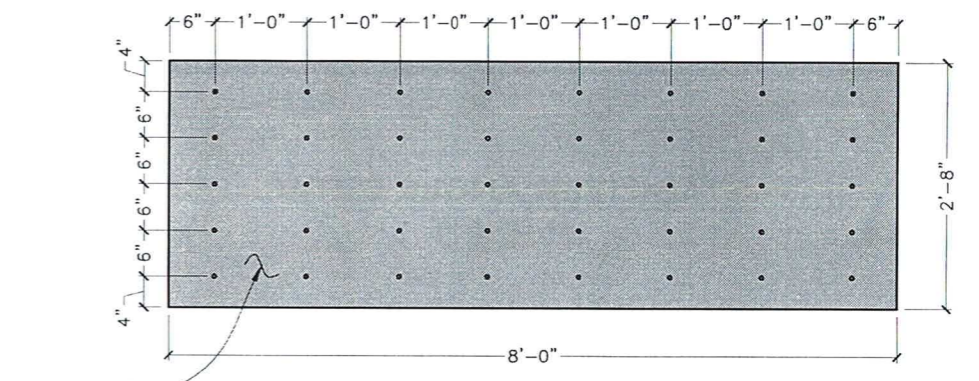
8' FLOAT SKID PLATE DETAIL



**125' MAIN FLOAT TO 75' MAIN FLOAT
TRANSITION PL PLAN**



**125' MAIN FLOAT TO 50' GANGWAY FLOAT
TRANSITION PL PLAN**



10' FLOAT SKID PLATE DETAIL

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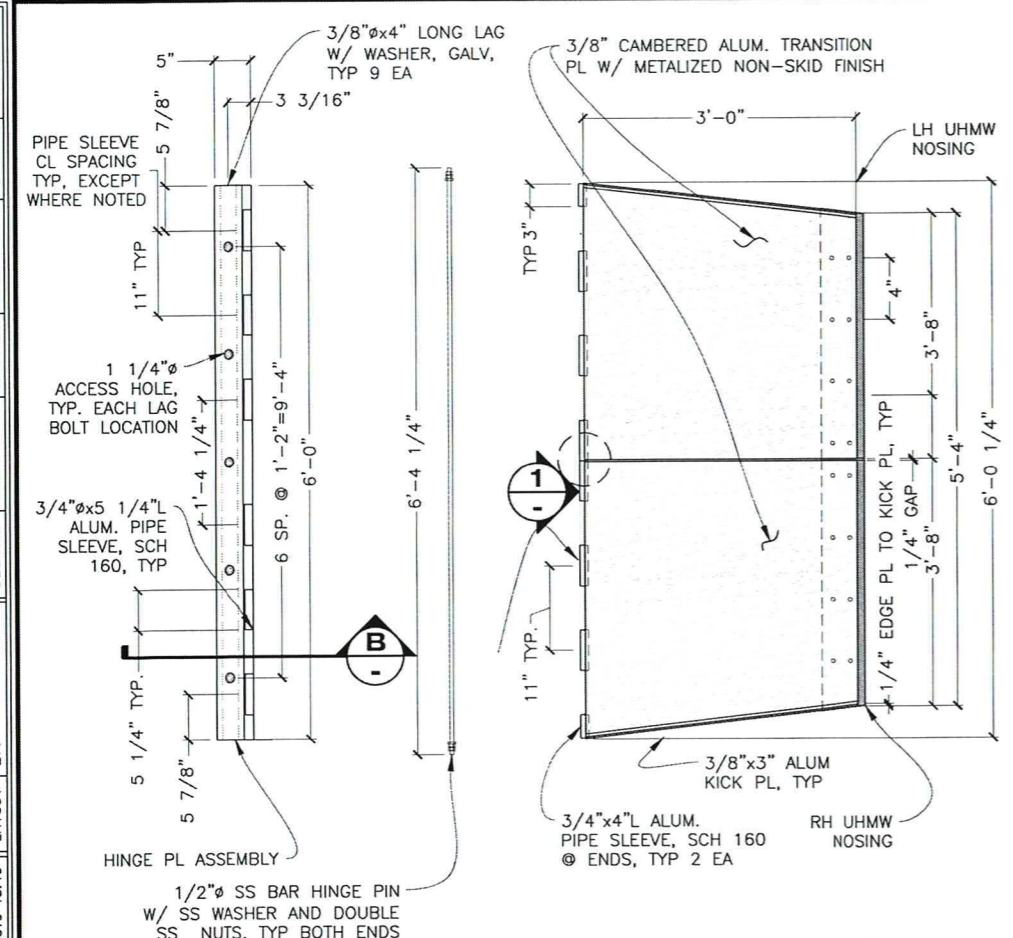
EDNA BAY HARBOR IMPROVEMENTS

TRANSITION PLATES

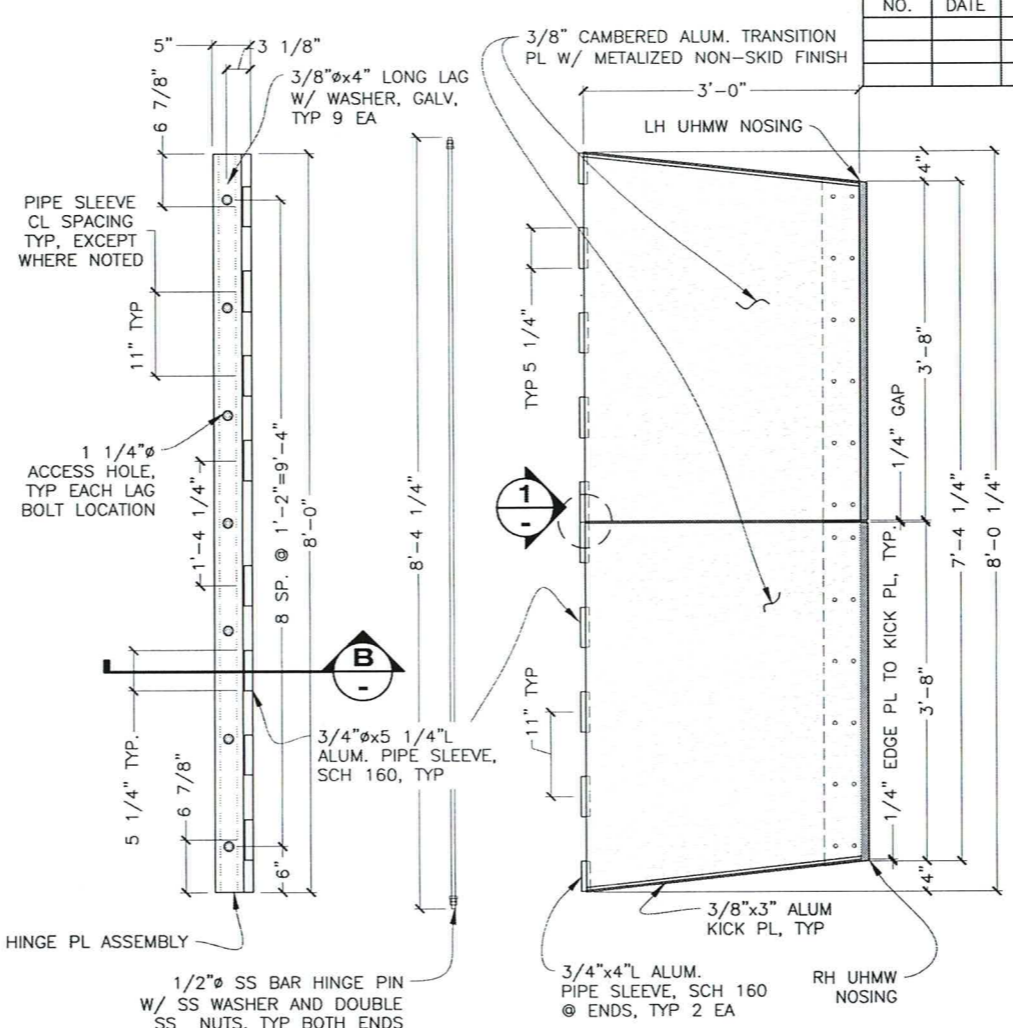
3/3/2020

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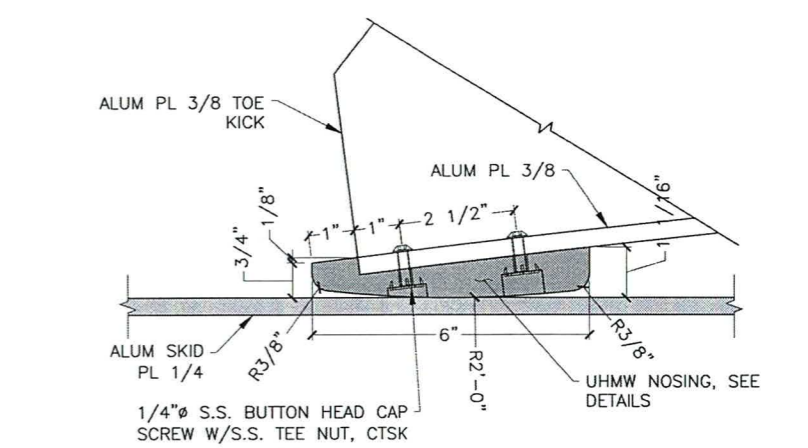
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			ALASKA	HARB00012	2020	214	33



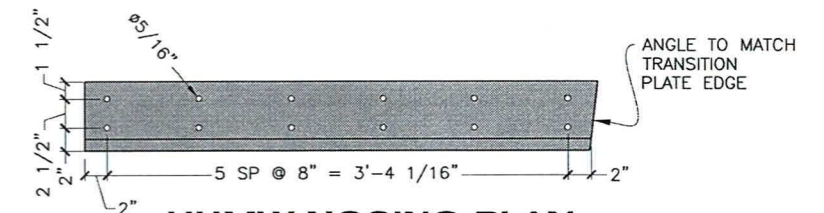
8' FLOAT TRANSITION PL DETAIL
1 EACH REQ'D



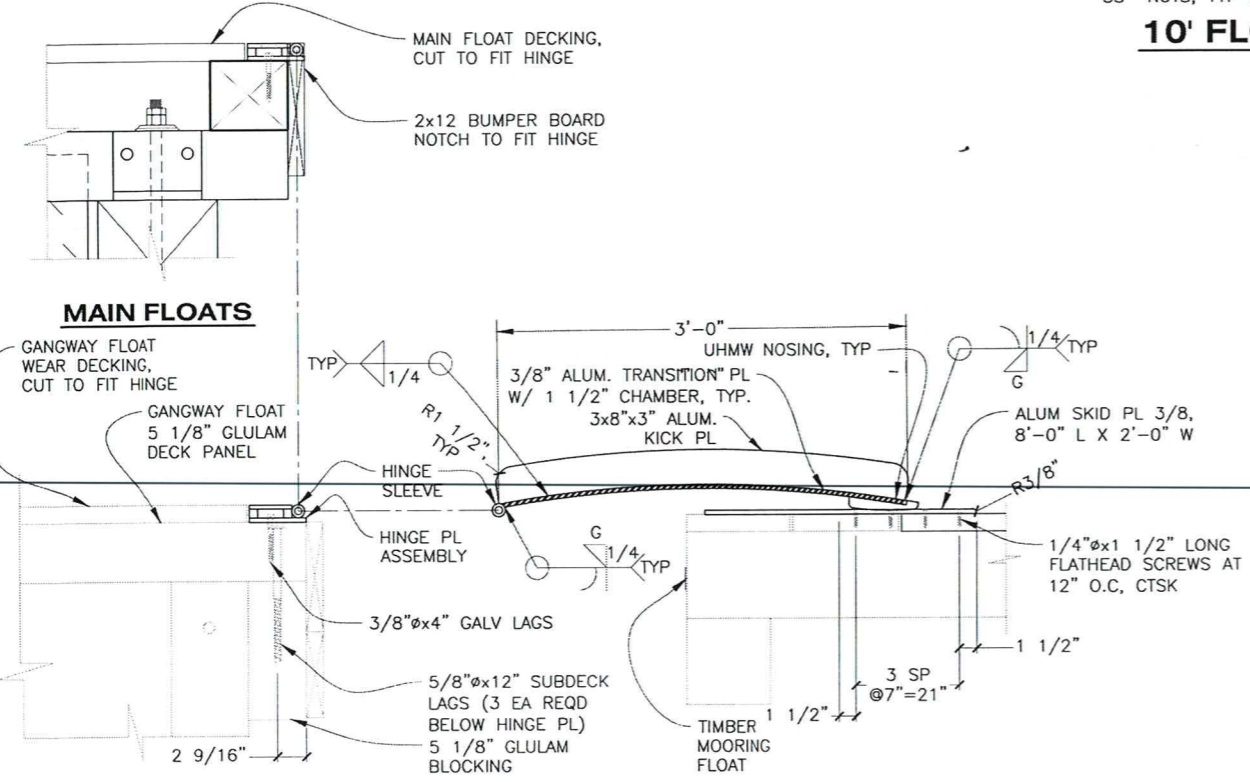
10' FLOAT TRANSITION PL DETAIL
3 EA REQ'D



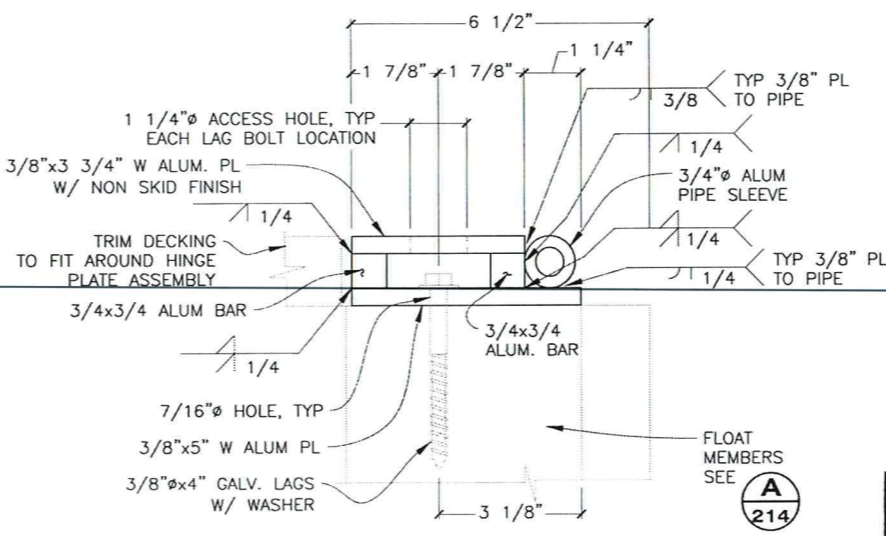
UHMW NOSING DETAIL



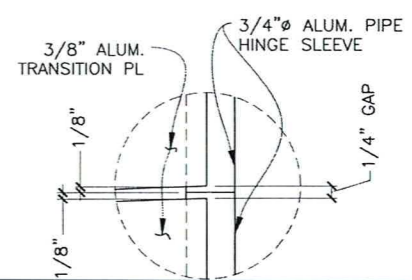
UHMW NOSING PLAN
LH NOSING SHOWN, RH NOSING OPP



A TRANSITION PLT SECTION
214

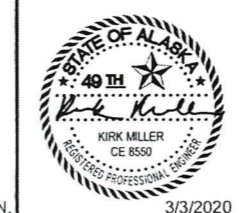


B SECTION



NOTE: HINGE SLEEVES EXTEND BEYOND TRANSITION PL'S 1/8" TO CREATE 1/4" GAP BETWEEN PL'S

1 DETAIL



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EDNA BAY HARBOR IMPROVEMENTS

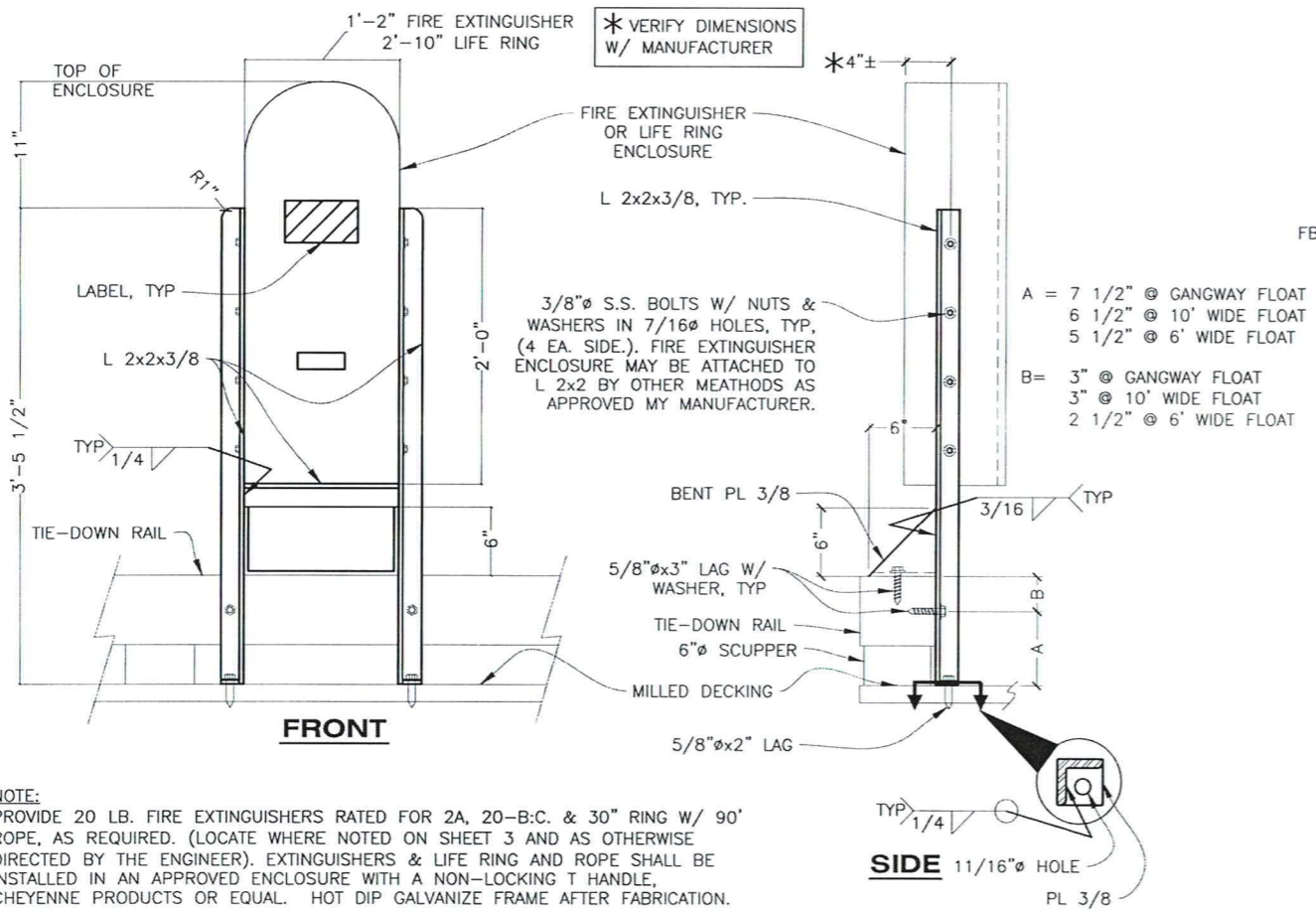
TRANSITION PLATES DETAILS

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

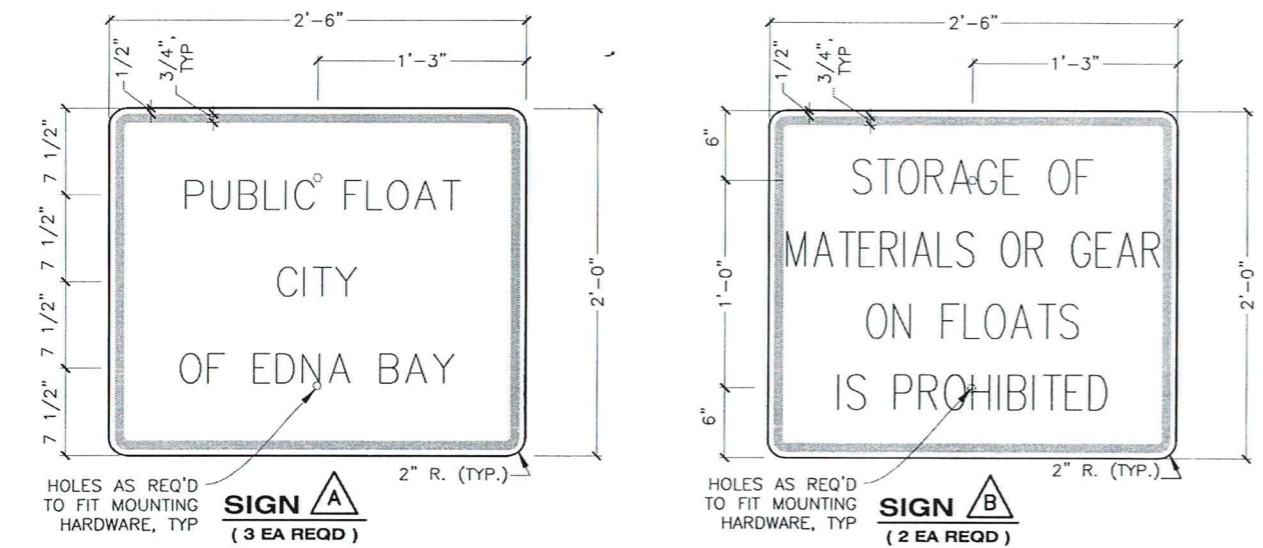
3/3/2020

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HARBOR0012	2020	215	33

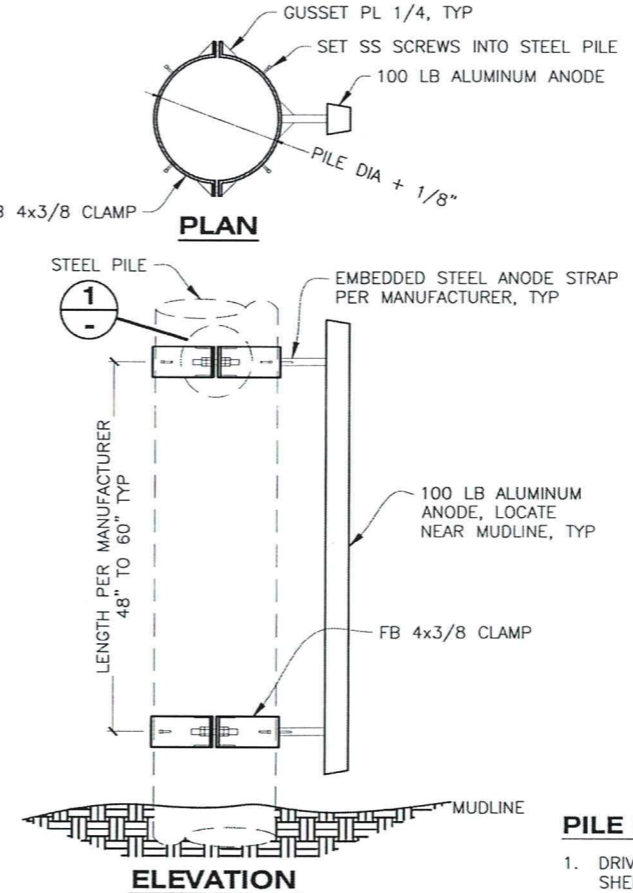


FIRE EXTINGUISHER/LIFE RING ENCLOSURE



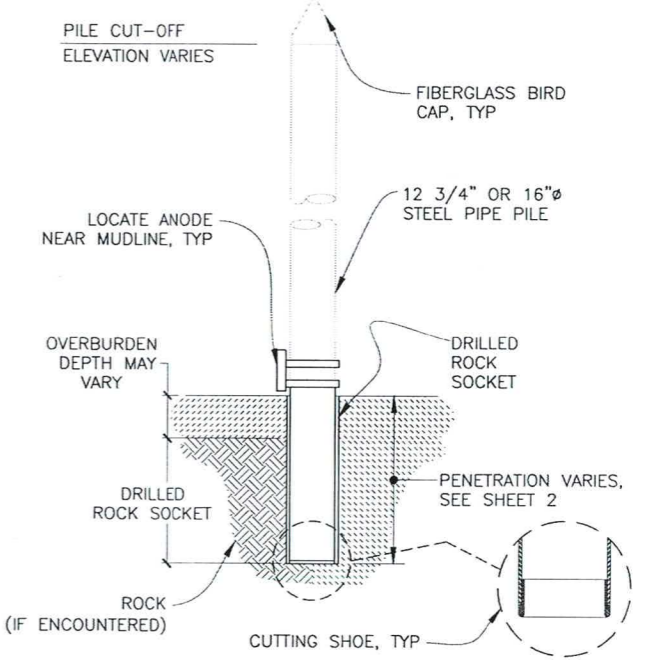
SIGN NOTES

- INSTALL SIGNS TO BE VISIBLE TO APPROACHING VESSEL OR PEDESTRIAN TRAFFIC, AT LOCATIONS AND ORIENTATION SHOWN ON PLAN AND AS DIRECTED BY THE ENGINEER.
- SIGNS SHALL HAVE BLACK LEGEND ON WHITE BACKGROUND. SIGN FABRICATION AND MATERIALS SHALL ALSO CONFORM TO SECTION 615 OF THE STANDARD SPECIFICATIONS. SIGN LETTERING SHALL CONFORM TO THE SIZE AND STYLE AS SHOWN IN THE PLANS AND THE ALASKA SIGN DESIGN DESIGNATION (ASDS).
- AFFIX SIGNS TO STEEL PILES WITH 2 EACH, 3/4"-INCH WIDE STAINLESS STEEL BANDS PER SIGN AND ASSOCIATED MOUNTING HARDWARE TO MATCH (BAND-IT OR APPROVED EQUAL). ALL MOUNTING HARDWARE AND SIGN BRACKETS SHALL BE STAINLESS STEEL. USE 1/2"-INCH MINIMUM DIAMETER BOLTS. DRILL HOLES IN SIGNS TO MATCH THE SELECTED MOUNTING BRACKETS.



PILE ANODE

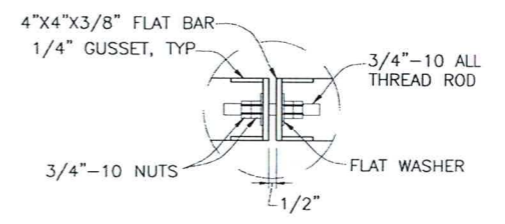
NOTE: ANODES MAY BE WELDED UNDERWATER TO PILE IN LIEU OF USING ANODE CLAMP.



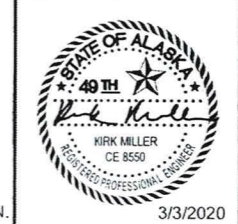
PILE DETAILS

PILE NOTES:

- DRIVE ALL PILES TO ESTIMATED TIP ELEVATION UNLESS OTHERWISE APPROVED BY THE ENGINEER. SEE SHEET 2 FOR ESTIMATED TIP, PILE CUTOFF ELEVATIONS AND PILE LENGTHS.
- WHERE MINIMUM ESTIMATED PENETRATION CANNOT BE ACHIEVED, DRILL ROCK SOCKET TO TIP ELEVATION OR 10- FEET MAXIMUM DEPTH IN ROCK AND DRIVE PILE TO BOTTOM OF SOCKET.



CLAMP CONNECTION



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EDNA BAY HARBOR IMPROVEMENTS

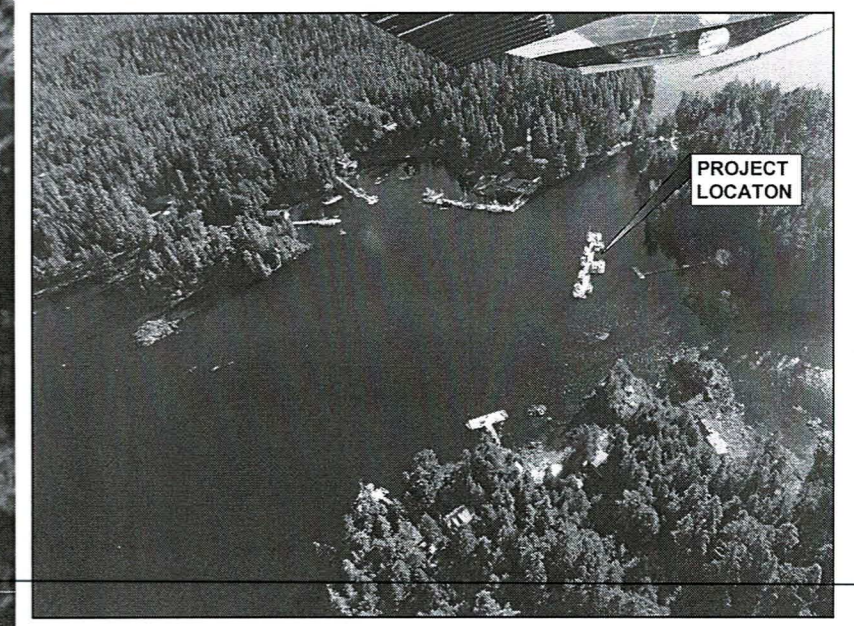
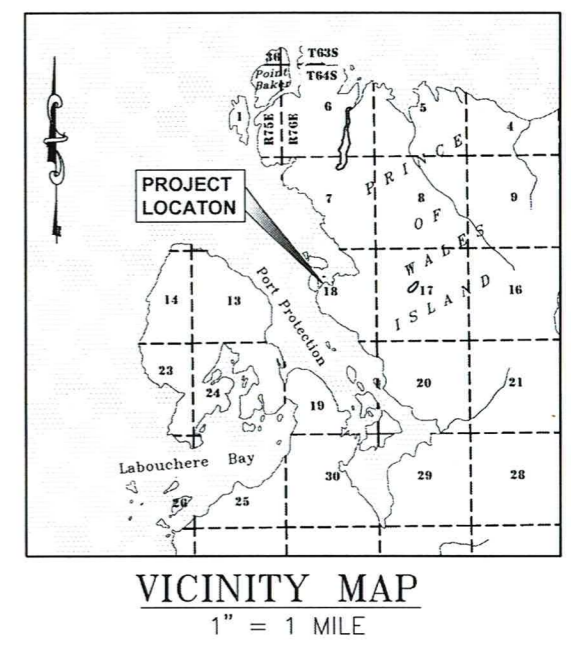
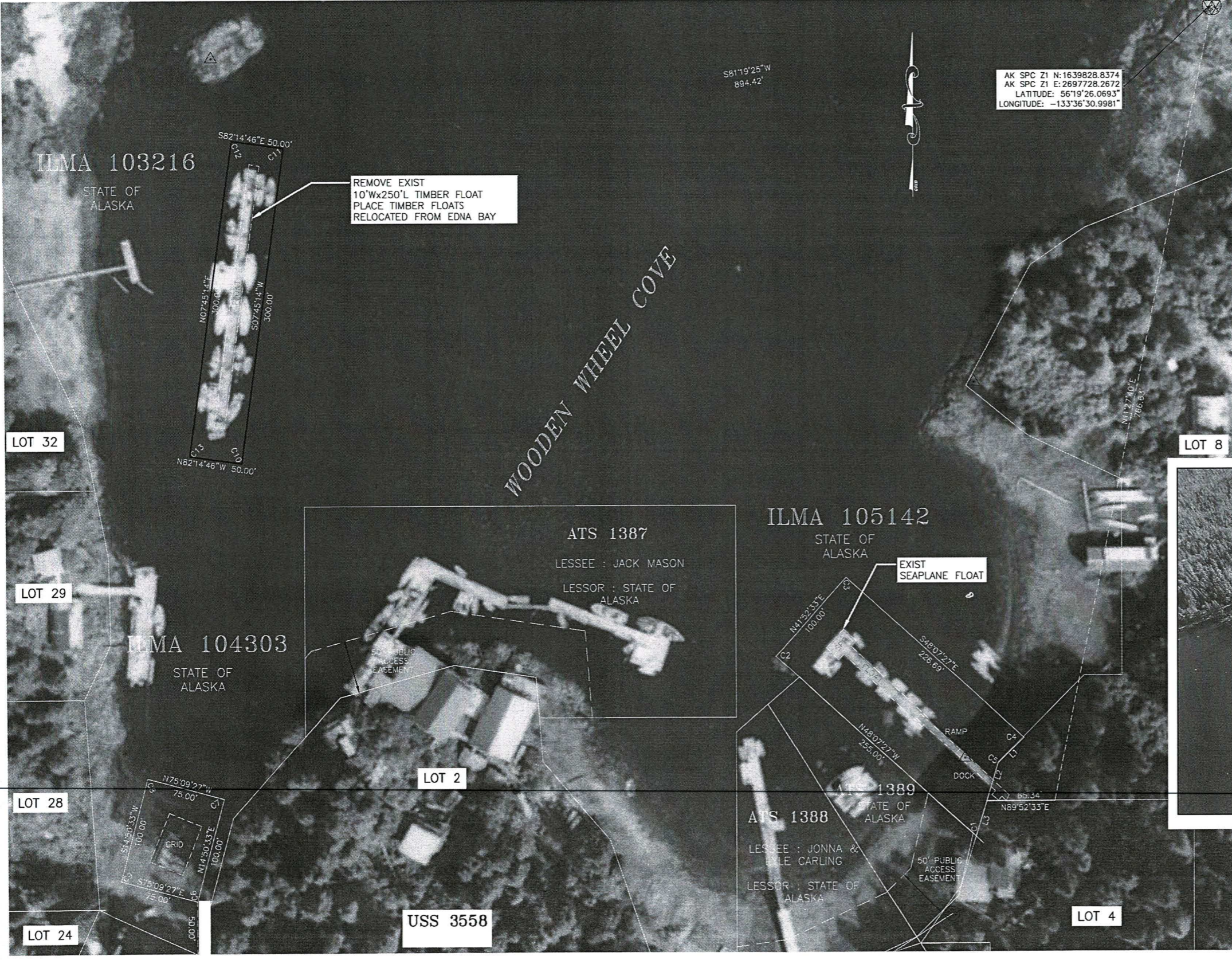
MISC FLOAT DETAILS

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/3/2020

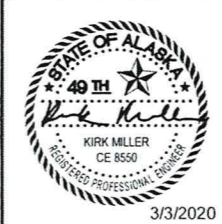
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HARB00012	2020	401	33

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 DATE: 1/15/2020 9:29
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 DESIGNED: XXX
 CHECKED: STAFF
 DRAFTED: STAFF



SITE MAP
1" = 50 FEET

AERIAL VIEW
NTS

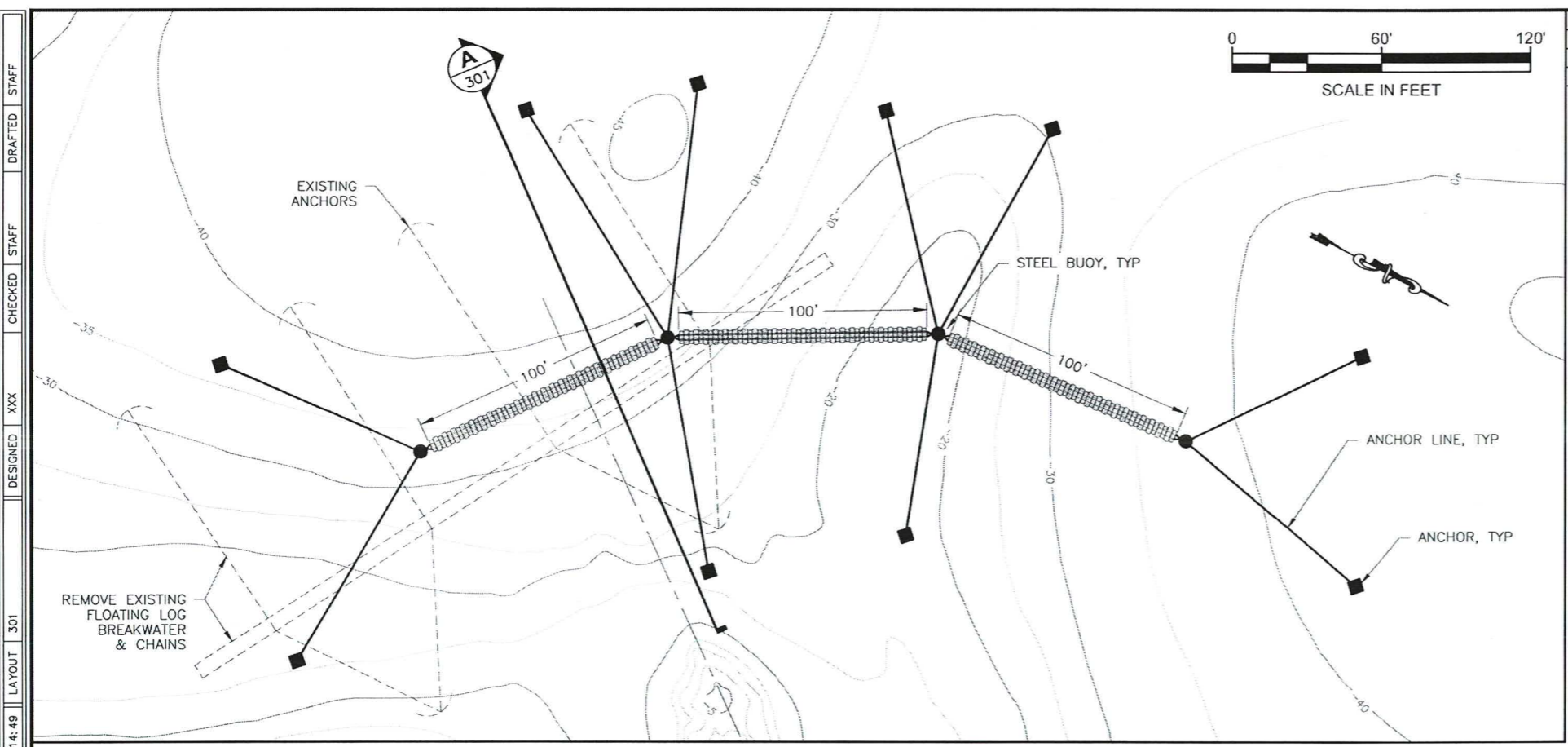


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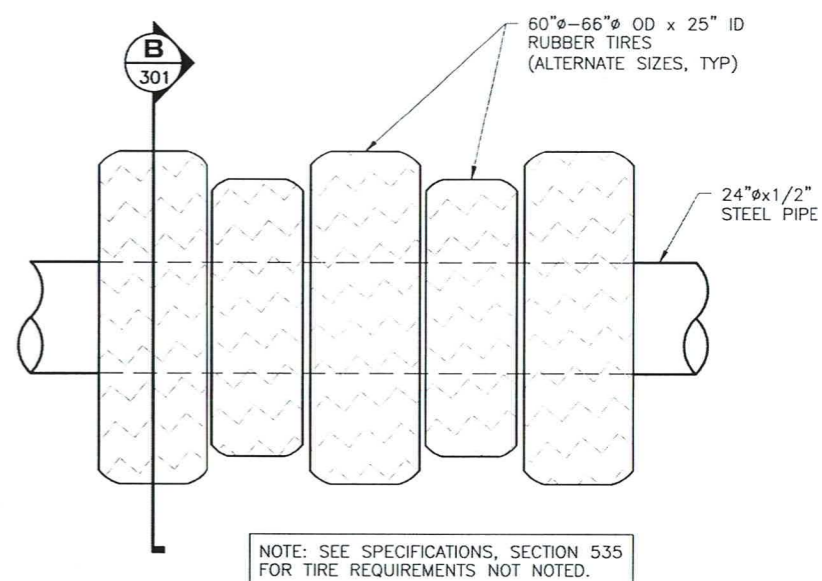
EDNA BAY HARBOR IMPROVEMENTS

PORT PROTECTION
SITE PLAN (CO 3)

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HARB00012	2020	301	33



FLOATING BREAKWATER NOTES

EXISTING FLOATING LOG BREAKWATER

1. ALL FEATURES FOR THE EXISTING FLOATING BREAKWATER ARE NOT SHOWN. AS-BUILT DRAWINGS OF THE EXISTING FLOATING BREAKWATER DO NOT EXIST. IT CONSISTS OF A 3-LOG BUNDLE OF VARYING LENGTHS OF LOGS THAT ARE CABLE WRAPPED TOGETHER. EXISTING ANCHOR TYPE AND SIZE NOT KNOWN BUT BELIEVED TO BE STEEL NAVY ANCHORS. EXISTING ANCHORS MAY BE SALVAGED, EQUIPPED WITH NEW CONNECTION HARDWARE AND RE-USED IF IN SUITABLE CONDITION.

NEW FLOATING STEEL PIPE & TIRE BREAKWATER

1. ALL FEATURES FOR THE NEW FLOATING BREAKWATER STRUCTURE ARE NOT SHOWN. FINAL DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR. THE PLANS ARE SCHEMATIC IN NATURE ONLY SHOWING BASIC FEATURES AND REQUIREMENTS. REFERENCE SECTION 535 OF THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL EMPLOY THE SERVICES OF A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF ALASKA TO REVIEW AND SEAL ALL FABRICATION AND INSTALLATION DRAWINGS INCLUDING THE ANCHORING SYSTEM.

2. ALL STEEL FABRICATIONS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION INCLUDING ALL CONNECTION HARDWARE. STEEL BUOYS MAY BE PAINTED (3-COATS OF MARINE GRADE PAINT, TWO COATS OF EPOXY OR ZINC RICH PRIMER AND ONE POLYURETHANE TOP COAT). REF SPECIFICATIONS.

3. THE FLOATING BREAKWATER SHALL HAVE A FREEBOARD DISTANCE AS APPROXIMATELY NOTED ON THE PLANS. THE PORTION OF THE TIRES THAT ARE ABOVE THE DESIGN WATER LINE SHALL BE FILLED WITH EPS FOAM, RUBBER INFLATABLE BUOYS OR OTHER POSITIVE FLOTATION MEANS AS MAY BE APPROVED BY THE ENGINEER.

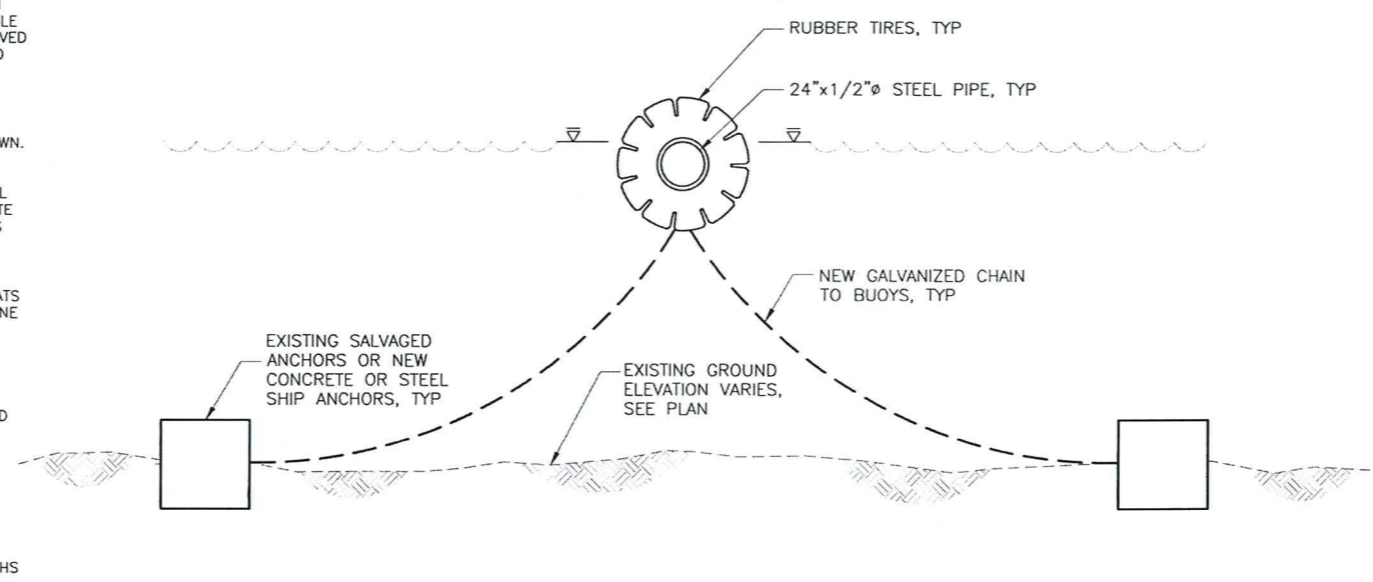
4. RUBBER TIRES MAY BE USED OR NEW AND SHALL BE OF THE NOMINAL SIZE NOTED. USED TIRES SHALL BE IN GOOD CONDITION AND EXHIBIT AT LEAST 0.5-INCHES OF EXISTING TREAD DEPTH. TREAD AND SIDEWALLS SHALL NOT BE CRACKED OR DETERIORATED AND TIRES WITH EXPOSED STEEL BELTS OR OTHER REINFORCING WILL NOT BE PERMITTED.

5. STEEL PIPE MAY BE FABRICATED AND CONNECTED TOGETHER IN SECTION LENGTHS OF THE CONTRACTORS CHOOSING. NINETY PERCENT (90%) OF THE INTERIOR VOLUME FOR EACH STEEL PIPE SECTION SHALL BE FILLED WITH EPS FOAM FLOTATION. PIPE SECTION CONNECTIONS SHALL BE DESIGNED TO ACCOMMODATE THE FULL STRENGTH OF THE ADJOINING PIPE SECTIONS.

6. ANCHORS AND ANCHOR LINE SYSTEMS SHALL BE DESIGNED BY THE CONTRACTORS ENGINEER. USE NEW, GALVANIZED BUOY CHAIN. ANCHOR CHAINS ARE TO BE CONNECTED TO FLOATING STEEL BUOYS LOCATED BETWEEN THE BREAKWATER SECTIONS. BREAKWATER SECTIONS AND ANCHOR CHAINS SHALL BE SUITABLY SECURED TOGETHER WITH GALVANIZED HARDWARE WITH BOLT TYPE SHACKLES AND STAINLESS STEEL COTTER PINS OR REMOVABLE CHAIN LINKS. ANCHORS SHALL MAY BE USED OR NEW AND THE EXISTING ANCHORS MAY BE SALVAGED AND REUSED.

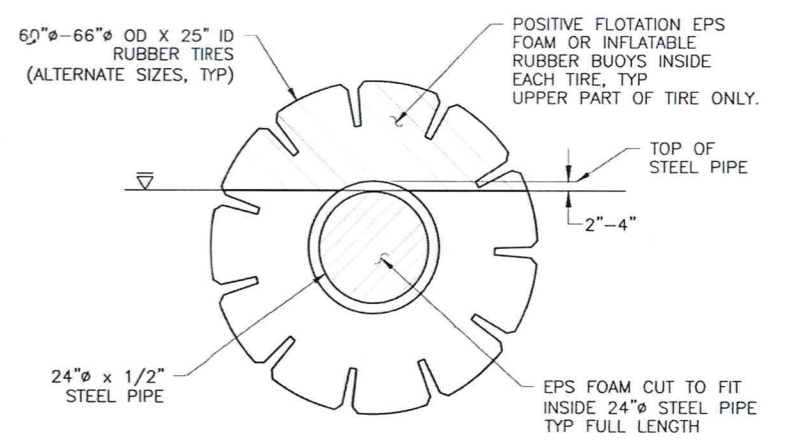
7. PLACE 3-FOOT HIGH ORANGE MARKERS AT EACH BUOY OR AT EACH END OF THE PIPE SECTIONS. ALSO AFFIX SOLAR POWERED MARKER LIGHTS AT EACH END (2 EACH TOTAL) OF THE BREAKWATER OR AT THE TWO END BUOYS. USE CARMANAH MODEL 501 OR EQUAL (FLASHING WHITE LIGHT COLOR).

1 BREAKWATER PLAN



A SECTION

2 ENLARGED BREAKWATER PLAN



B TYPICAL SECTION



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EDNA BAY HARBOR IMPROVEMENTS

FLOATING BREAKWATER

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

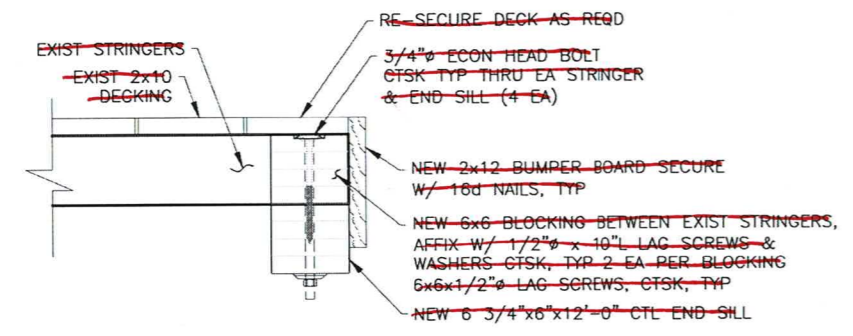
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	HHARB00012	2020	402	33

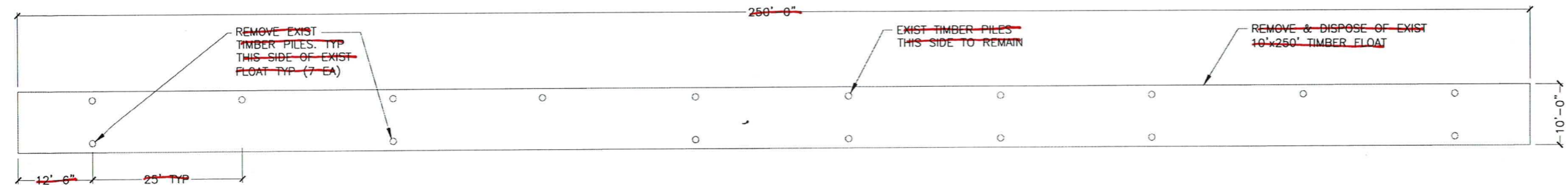
PORT PROTECTION FLOAT RELOCATION NOTES

- ~~REMOVE EXISTING 10'x250' TIMBER FLOAT AND 7 TIMBER PILES AS NOTED. REMOVE AND DISPOSE OF ALL MATERIALS REMOVED FROM PORT PROTECTION.~~
- ~~TRANSPORT AND INSTALL RELOCATED TIMBER FLOATS FROM EDNA BAY WHERE NOTED. MODIFY EXISTING FLOATS AS NOTED OR OTHERWISE APPROVED BY THE ENGINEER.~~
- ~~NO NEW PILE DRIVING IS CONTEMPLATED. FLOAT PLACEMENT WILL REQUIRE LIFTING THE FLOAT SECTIONS OVER THE TOP OF THE EXISTING TIMBER PILES THAT ARE TO REMAIN. PROVIDE UNIFORM LOAD BEARING LIFT SUPPORTS AT 25' MAXIMUM SPACING. LIFTING STRAPS OR BEAMS AND THEIR SUPPORT LOCATIONS SHALL BE CONDUCTED IN A MANNER THAT DOES NOT DAMAGE THE EXISTING FLOATS. IN ORDER TO FIT THE EXISTING PILES, THIS PLACEMENT METHOD MAY REQUIRE TEMPORARY REMOVAL OF THE EXISTING INTERNAL STEEL PILE COLLARS. FLOATS MAY BE DISMANTLED INTO SECTIONS (25' MODULES) FOR EASE OF LIFTING OR PLACEMENT. SEPARATE FLOATS ONLY AT THE ORIGINAL STRINGER SPLICE LOCATIONS. DO NOT CUT STRUCTURAL MEMBERS UNLESS PERMITTED BY THE ENGINEER. RE-ATTACH ANY DISMANTLED FLOAT SECTIONS BACK TOGETHER AND AFFIX ANY PILE COLLARS THAT WERE REMOVED USING EXISTING OR NEW HARDWARE PER AS-BUILT DRAWINGS.~~

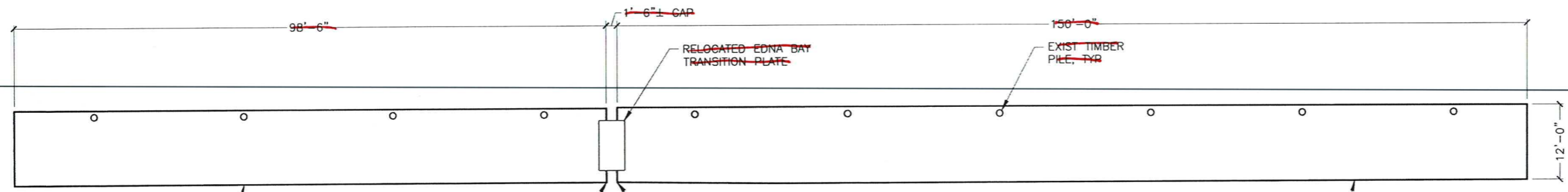


A SECTION

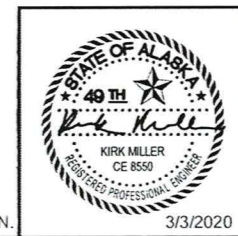
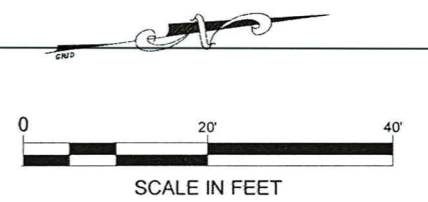
EXISTING FLOAT



EXISTING FLOAT PLAN



NEW FLOAT PLAN



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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EDNA BAY HARBOR IMPROVEMENTS

PORT PROTECTION-FLOAT PLAN (03)

DRAWING SCALES ARE FOR FULL-SIZE SHEETS. USE DIMENSIONS WHEN SCALE NOT SHOWN.

3/3/2020

