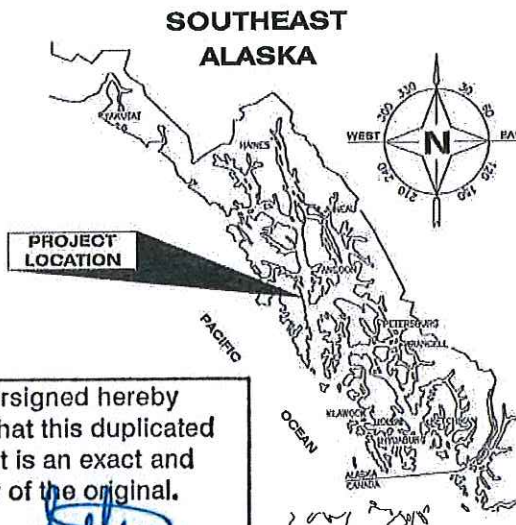


State of Alaska

Department of Transportation
and Public Facilities
Southcoast Region

BARANOF WARM SPRINGS HARBOR IMPROVEMENTS

PROJECT No. 68353
RE-BID

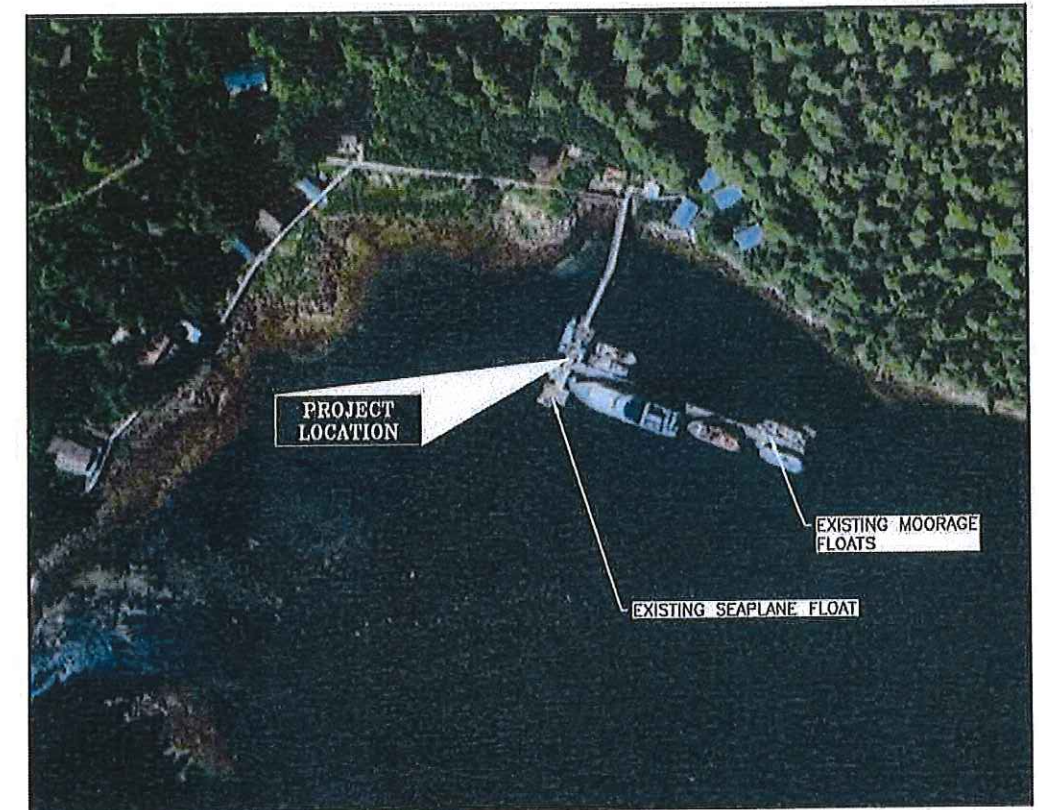


The undersigned hereby certifies that this duplicated document is an exact and true copy of the original.

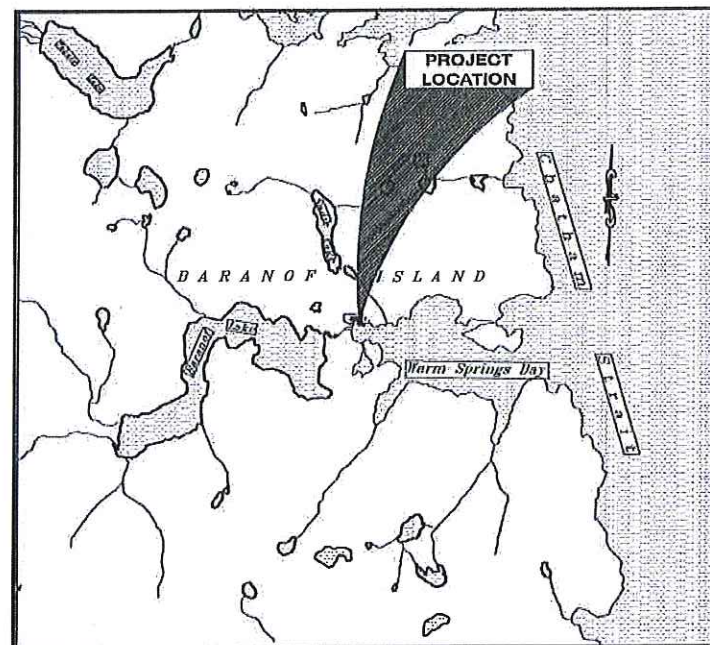
Cody Sutter

TIDAL DATA	
HTL	+18.0'
MHW	+13.1'
MLLW	0.0'
ELW	-5.0'

BARANOF WARM SPRINGS SHEET INDEX	
SHEET NO.	DESCRIPTION
GENERAL	
01	TITLE SHEET
02	ESTIMATE OF QUANTITIES
03	EXISTING CONDITIONS & DEMOLITION PLAN
04	DEMOLITION DETAILS
05	NEW SITE PLAN & SURVEY CONTROL
PILE DATA	
06	PILE DATA & DETAILS
07	TENSION PILE ANCHOR DETAILS
08	GANGWAY LIFTING FRAME & ANODE DETAILS
GANGWAY SUPPORT FRAME	
09	TIMBER TRESTLE & GANGWAY ELEVATION
10-11	GANGWAY SUPPORT FRAME DETAILS
GANGWAY	
12	GANGWAY PLAN & ELEVATION
13	GANGWAY TYPICAL SECTION & DETAILS
14-15	GANGWAY DETAILS
FLOATS	
16	GANGWAY FLOAT-G1 PLAN & ELEVATION
17	TYPICAL MAINWALK FLOAT PLAN & ELEVATION
18	MAINWALK FLOAT-M1 PLAN & ELEVATION
19	SEAPLANE FLOAT-SP1 PLAN & ELEVATION
20-21	FLOAT SECTIONS
22	MAINWALK FLOAT FRAMING DETAILS
23	SEAPLANE FLOAT FRAMING DETAILS
24-28	CONNECTION HINGE DETAILS
29-31	INTERNAL PILE COLLAR DETAILS
32-33	EXTERNAL PILE COLLAR DETAILS
34	CONNECTION BRACKET & MISC DETAILS
35-36	RESERVE FLOTATION BILLETS
37	RUBBOARD DETAILS
38	TRANSITION PLATE DETAILS
MISC	
39	SIGNAGE DETAILS
40	RESCUE LADDER
41	MISCELLANEOUS DETAILS



SITE MAP
NTS



VICINITY MAP
NTS

PATH: q:\sr\68353\MF\PLANSET\8. FINAL -JAN 2016\01 - TITLE SHEET.DWG TAB:01
Wednesday, January 06, 2016 11:07:38 AM
PLOT: PSPACE OR MSPACE: 1=1(F)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHCOAST REGION



APPROVED: *Pat Carroll* 1/7/16
REGIONAL PRE-CONSTRUCTION ENGINEER DATE
L. PAT CARROLL, P.E.

APPROVED: *Pat Carroll FOR* 1/7/16
DIRECTOR, SOUTHCOAST REGION DATE
MICHAEL J. COFFEY

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

CONSTRUCTION PROJECT MANAGER DATE

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *Doree Pahl* Date 12/6/16

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	68353	2016	01	41

ESTIMATE OF QUANTITIES

ITEM NO	DESCRIPTION	QUANTITY	PAY UNIT
BASIC BID			
202(1)	DEMOLITION AND REMOVAL	ALL REQUIRED	LUMP SUM
504(1)	GANGWAY SUPPORT PILE CAP	1	EACH
504(2)	7' x 80' ALUMINUM GANGWAY	ALL REQUIRED	LUMP SUM
504(3)	GANGWAY LIFTING FRAME	ALL REQUIRED	LUMP SUM
504(4)	TRANSITION PLATES	ALL REQUIRED	LUMP SUM
505(1)	18" x 0.500" PIPE PILE, FURNISHED	1220	LINEAR FOOT
505(2)	18" x 0.500" PIPE PILE, DRIVEN	16	EACH
505(3)	DRILLED ROCK SOCKET, EQUIPMENT	ALL REQUIRED	LUMP SUM
505(4)	DRILLED ROCK SOCKET, INSTALLED	10	EACH
505(5)	100LB PILE ANODE	16	EACH
505(6)	WIND SOCK	ALL REQUIRED	LUMP SUM
506(1)	22' x 20' GANGWAY FLOAT	ALL REQUIRED	LUMP SUM
506(2)	10.5' x 200' MOORING FLOAT	ALL REQUIRED	LUMP SUM
506(3)	31.5' x 34' SEAPLANE FLOAT	ALL REQUIRED	LUMP SUM
506(4)	LEVELING FLOTATION BILLET, FURNISHED	8	EACH
506(5)	LEVELING FLOTATION BILLET, INSTALLED	8	EACH
506(6)	FIRE EXTINGUISHER STATION	2	EACH
506(7)	LIFE RING STATION	2	EACH
506(8)	RESCUE LADDER	3	EACH
518(1)	TENSION PILE ANCHOR	2	EACH
615(7)	SIGNS	ALL REQUIRED	LUMP SUM
640(1)	MOBILIZATION AND DEMOBILIZATION	ALL REQUIRED	LUMP SUM
640(4)	WORKER MEALS AND LODGING, OR PER DIEM	ALL REQUIRED	LUMP SUM
642(1)	CONSTRUCTION SURVEYING	ALL REQUIRED	LUMP SUM
644(1)	FIELD OFFICE	ALL REQUIRED	LUMP SUM
644(6)	VEHICLES (SKIFF)	ALL REQUIRED	LUMP SUM
ADDITIVE ALTERNATE A			
505(1A)	18" x 0.500" PIPE PILE, FURNISHED	170	LINEAR FOOT
505(2A)	18" x 0.500" PIPE PILE, DRIVEN	2	EACH
505(4A)	DRILLED ROCK SOCKET, INSTALLED	2	EACH
505(5A)	100LB PILE ANODE	2	EACH
506(2A)	10.5' x 50' MOORING FLOAT	ALL REQUIRED	LUMP SUM
506(4A)	LEVELING FLOTATION BILLET, FURNISHED	2	EACH
506(5A)	LEVELING FLOTATION BILLET, INSTALLED	2	EACH
615(7A)	SIGNS	ALL REQUIRED	LUMP SUM
640(1A)	MOBILIZATION AND DEMOBILIZATION	ALL REQUIRED	LUMP SUM
640(4A)	WORKER MEALS AND LODGING, OR PER DIEM	ALL REQUIRED	LUMP SUM
644(1A)	FIELD OFFICE	ALL REQUIRED	LUMP SUM
644(6A)	VEHICLES (SKIFF)	ALL REQUIRED	LUMP SUM
ADDITIVE ALTERNATE B			
505(1B)	18" x 0.500" PIPE PILE, FURNISHED	160	LINEAR FOOT
505(2B)	18" x 0.500" PIPE PILE, DRIVEN	2	EACH
505(4B)	DRILLED ROCK SOCKET, INSTALLED	2	EACH
505(5B)	100LB PILE ANODE	2	EACH
506(2B)	10.5' x 50' MOORING FLOAT	ALL REQUIRED	LUMP SUM
506(4B)	LEVELING FLOTATION BILLET, FURNISHED	2	EACH
506(5B)	LEVELING FLOTATION BILLET, INSTALLED	2	EACH
506(6B)	FIRE EXTINGUISHER STATION	1	EACH
506(7B)	LIFE RING STATION	1	EACH
640(1B)	MOBILIZATION AND DEMOBILIZATION	ALL REQUIRED	LUMP SUM
640(4B)	WORKER MEALS AND LODGING, OR PER DIEM	ALL REQUIRED	LUMP SUM
644(1B)	FIELD OFFICE	ALL REQUIRED	LUMP SUM
644(6B)	VEHICLES (SKIFF)	ALL REQUIRED	LUMP SUM

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE *Dave Felt* Date *12/6/16*

GENERAL NOTES

DESIGN SPECIFICATIONS PER CONTRACT DOCUMENTS FOR PROJECT NO. 68353.
OTHER INFORMATION REFERENCE AS-BUILT DRAWINGS FOR EXISTING TIMBER FLOAT SYSTEM AND APPROACH TRESTLE DETAILS NOT SHOWN.

MATERIALS

STEEL:
TUBE SECTIONS: ASTM A500 GRADE B
PILES: STRAIGHT SEAM, ASTM A252 GRADE 3 OR EQUAL.
PIPE: ASTM A53, GRADE B, TYPE E OR S
STAINLESS: TYPE 316
STEEL SHAPES & PLATES: ASTM A36, A572 GRADE 50, OR AS NOTED.
PILE TIPS: APF-0-14000 OR APF 0-14001 DRIVE SHOES OR APPROVED EQUAL. DRIVE SHOES ARE REQUIRED ON ALL PILING.
STEEL COATINGS: ALL STEEL FABRICATIONS AND HARDWARE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION PER ASTM A123 AND A153.

ALUMINUM:

SHAPES-- ASTM 6061-T6
PLATES-- ASTM 5086 H112
RESCUE LADDER -- ASTM 6063-T452

BOLTS AND FASTENERS:

STEEL-TO-STEEL CONNECTIONS: ASTM A325, PRETENSIONED, U.O.N.
TIMBER-TO-STEEL CONNECTIONS: ASTM A307, SNUG-TIGHTENED, U.O.N.
TIMBER-TO-TIMBER CONNECTIONS: ASTM A307, SNUG-TIGHTENED, U.O.N.

TIMBER:

SAWN TIMBER SHALL BE DOUGLAS FIR NO. 1 OR BETTER PER WCLIB/WWPA GRADING RULES. SAWN TIMBER DECKING SHALL BE DOUGLAS FIR, SELECTED GRADE PER WWPA GRADING RULES. ALL SAWN TIMBER SHALL BE S4S EXCEPT DECKING (MILLED S1S2E).

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

UHMW PLASTIC:

ULTRA HIGH MOLECULAR WEIGHT PLASTIC (UHMW) SHALL BE MADE FROM MATERIAL CONFORMING TO ASTM D-4020. COLOR SHALL BE BLACK, U.O.N.

TIMBER TREATMENT:

SAWN TIMBER BELOW DECK LEVEL TO BE TREATED WITH CREOSOTE TO 20 PCF RETENTION. GLULAM STRINGERS AND BLOCKING BELOW DECK LEVEL SHALL BE TREATED WITH CREOSOTE, 12 PCF RETENTION. TIMBER DECKING, TIEDOWN RAILS & BUMPER BOARDS TO BE TREATED WITH ACZA TO 0.6 PCF RETENTION.

CUT ALL MEMBERS TO LENGTH PRIOR TO PRESSURE TREATMENT. DRILL ALL HOLES/COUNTERBORING AND CUT ALL DAPS PRIOR TO PRESSURE TREATMENT UNLESS OTHERWISE SPECIFIED OR APPROVED BY THE ENGINEER. TREAT ALL FIELD DRILLED HOLES AND CUTS PER AWPA M4.

WELDING:

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

TIMBER FLOAT SYSTEM:

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

MACHINE OR POWER DRIVEN NAILS WILL NOT BE PERMITTED.

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

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

REFERENCE LEGEND

VIEW TITLE	VIEW NAME	SECTION VIEW
	VIEW DESCRIPTION	
DRAWING TITLE/ SUBTITLE	DRAWING TITLE	DETAIL CALLOUT
	DRAWING DESCRIPTION	DETAIL TAG

NOTES:
* SHEET NUMBER WHERE REFERENCE IS LOCATED WHEN ON A DIFFERENT SHEET OR DASH MARK WHEN REFERENCE IS ON THE SAME SHEET.

DESIGN STANDARDS:

DESIGN SPECIFICATIONS:

- AISC STEEL CONSTRUCTION MANUAL 14TH ED. LRFD.
- ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES.
- AWS STRUCTURAL WELDING CODE D1.1, 2010
- NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION, ASD/LRFD, 2012.
- USACE SHORE PROTECTION MANUAL, VOL 1, 1984

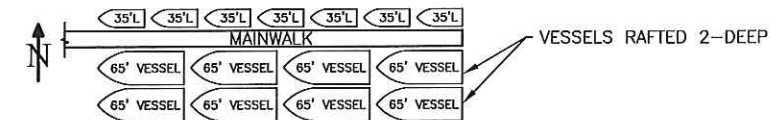
DESIGN LOADS:

GANGWAY LIVE LOAD: SEE SHEET 17
FLOAT LIVE LOAD: 35 PSF UNIFORM LOAD

FLOAT WIND LOAD:

N/S WIND DIRECTION = 60MPH
E/W WIND DIRECTION = 105 MPH
WIND LOADS ARE BASED ON A 3-SECOND WIND GUST, EXPOSURE D, PER ASCE 7-10, AND REDUCED TO A 5-MINUTE AVERAGE WIND SPEED PER USACE SHORE PROTECTION MANUAL, VOL 1, 1984.

VESSEL CONFIGURATION FOR DESIGN:



WAVE HEIGHT: 2-FT WAVE HEIGHT WITH A WAVE LENGTH OF 50-FT.

LIMITATIONS OF OPERATIONS

- PROVIDE ADVANCE NOTICE AND COORDINATE ALL WORK WITH THE RESIDENTS OF BARANOF WARM SPRINGS.

BARANOF PROPERTY OWNERS ASSOCIATION (BPOA)

PRESIDENT CONTACT INFO:

TED LAUFENBERG
712 ETOLIN STREET
SITKA, AK 99835
907-623-7107
tlaufen@gmail.com

- REFERENCE SECTION 108 OF THE SPECIAL PROVISIONS FOR ADDITIONAL WORK LIMITATIONS NOT NOTED.

ABBREVIATIONS:

ALUM - ALUMINUM	PCF - POUNDS PER CUBIC FOOT
APPX - APPROXIMATE	PL - PLATE
ATV - ALL TERRAIN VEHICLE	PSF - POUNDS PER SQUARE FOOT
CJP - COMPLETE JOINT PENETRATION	REQ'D - REQUIRED
CTSK - COUNTER SINK	SCH - SCHEDULE
DF - DOUG FIR	SS - STAINLESS STEEL
ECON. HD. - ECONOMY HEAD	SYMM - SYMMETRICAL
ELEV - ELEVATION	TYP - TYPICAL
EXT - EXTERIOR	UHMW - ULTRA HIGH MOLECULAR WEIGHT
FH - FLAT HEAD	PLASTIC
GALV - GALVANIZED	U.O.N. - UNLESS OTHERWISE NOTED
GL - GLUED LAMINATED	WP - WORK POINT
GR - GRADE	XS - EXTRA STRONG
HSS - HOLLOW STRUCTURAL SECTION	
MISC - MISCELLANEOUS	
O.C. - ON CENTER	
OPP - OPPOSITE	

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHWEST REGION							
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353							
	ESTIMATE OF QUANTITIES							
CHECKED BY: K. MILLER	PROJECT DESIGNATION	YEAR						
DRAWN BY: STAFF	68353	2016						
PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\02 - ESTIMATE OF QUANTITIES.DWG	SHEET NO.	TOTAL SHEETS						
TAB: 02 Wednesday, January 06, 2016 2:21:20 PM MISTY L. BUTLER	02	02						
<table border="1" style="width: 100%;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION				41
NO.	DATE	DESCRIPTION						

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE *Dave Pule* Date *12/6/16*

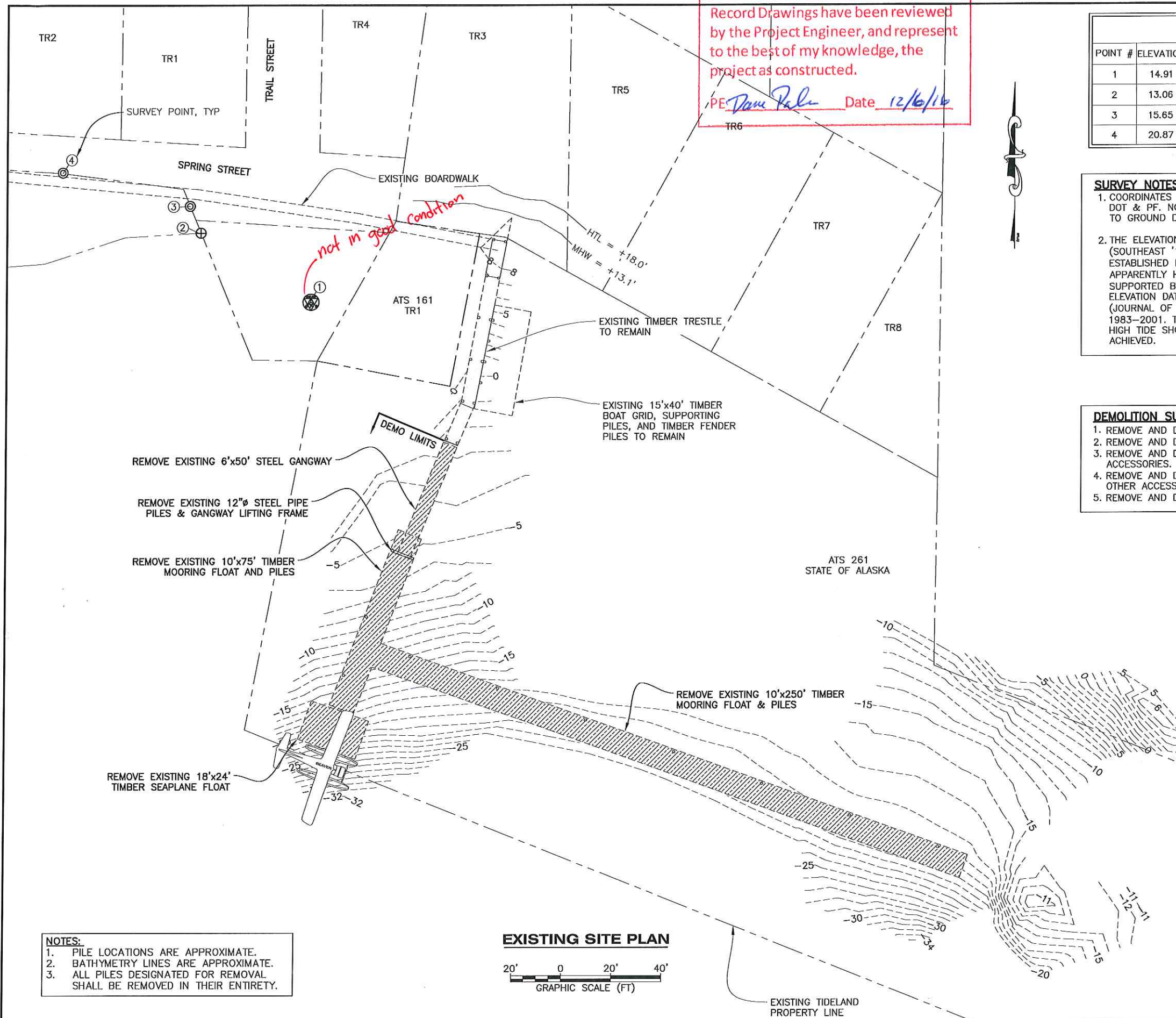
SURVEY POINT TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	14.91	1921412.05	2453810.93	2" ALUMINUM CAP_DOT_GPS_OPUS
2	13.06	1921439.75	2453766.62	3.25" ALUMINUM_CAP_C7_ASLS2000-2/L6_USS3291
3	15.65	1921450.52	2453762.28	2" ALUMINUM_CAP_RM_11.64
4	20.87	1921463.93	2453710.88	1.5" ALUMINUM_CAP_ROW

SURVEY NOTES:

- COORDINATES AND BEARINGS SHOWN ARE ASP ZONE 1 (NAD 83) AS ESTABLISHED BY ALASKA DOT & PF. NGS OPUS POINT 1 HAS A COMBINED SCALE FACTOR OF 0.99993024. TO REDUCE TO GROUND DISTANCES DIVIDE BY SAID COMBINED SCALE FACTOR.
- THE ELEVATION BENCH MARK USED FOR THIS PRODUCT IS USC & GS BENCH MARCH #5 (SOUTHEAST '15 FROM THE SOUTHEAST CORNER OF LOT 8, BLOCK 5). THE BENCH MARK WAS ESTABLISHED IN 1960, WITH A PUBLISHED ELEVATION OF 14.36' (MLLW = 0.0') THIS ELEVATION APPARENTLY HAS NOT BEEN UPDATED/CORRECTED AND THE BENCH MARK IS NO LONGER SUPPORTED BY NGS. WITHOUT OTHER RELIABLE ELEVATION DATA IN THE VICINITY, BM #5 ELEVATION DATA OF 1960 WAS RECALCULATED TO ACCOUNT FOR PROJECTED LAND EMERGENCE (JOURNAL OF GEOPHYSICAL RESEARCH 70: 3315-3320, 1965) THRU THE END OF TIDAL EPOCH 1983-2001. THE ELEVATION THUS DETERMINED IS 14.73'. THIS WAS COMPARED TO LOW AND HIGH TIDE SHOTS OBSERVED OCTOBER 27, 28, AND 29, 2014 WITH REASONABLE CORRELATION ACHIEVED.

DEMOLITION SUMMARY:

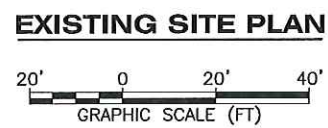
- REMOVE AND DISPOSE OF 6'x50' STEEL GANGWAY AND ALL ACCESSORIES.
- REMOVE AND DISPOSE 12"Ø STEEL PIPE PILES & GANGWAY LIFTING FRAME.
- REMOVE AND DISPOSE OF 10'x75' TIMBER MOORING FLOAT, ASSOCIATED PILING, AND ALL OTHER ACCESSORIES.
- REMOVE AND DISPOSE OF 10'x250' TIMBER MOORING FLOAT, ASSOCIATED PILING, AND ALL OTHER ACCESSORIES.
- REMOVE AND DISPOSE OF 18'x24' TIMBER SEAPLANE FLOAT AND ALL ACCESSORIES.



LEGEND	
	TO BE REMOVED

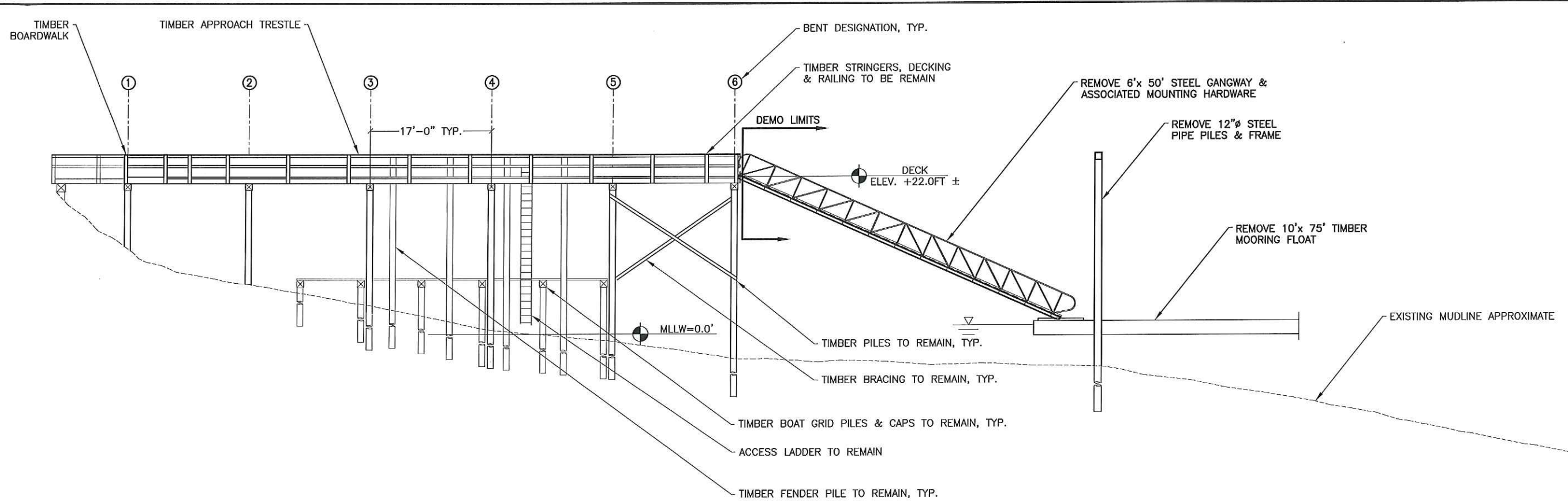
NOTES:

- PILE LOCATIONS ARE APPROXIMATE.
- BATHYMETRY LINES ARE APPROXIMATE.
- ALL PILES DESIGNATED FOR REMOVAL SHALL BE REMOVED IN THEIR ENTIRETY.



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION																		
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353																		
	EXISTING CONDITIONS & DEMOLITION PLAN																		
CHECKED BY: K. MILLER	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS															
DRAWN BY: STAFF	68353	2016	03	41															
PATH: Q:\SIT\68353\MF\PLANSET\B_FINAL -JAN 2016\03 - EXISTING CONDITIONS & DEMOLITION PLAN.D TAB: 03 Wednesday, January 06, 2016 2:21:42 PM MISTY L. BUTLER																			
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REVISIONS																			
NO.	DATE	DESCRIPTION	YEAR	SHEET NO.															



NOTE: LAYOUT AND DIMENSIONS OF EXISTING TIMBER APPROACH TRESTLE ARE APPROXIMATE. VARIANCES OR DISCREPANCIES SHALL BE BROUGHT TO ENGINEERS ATTENTION.

EXISTING TRESTLE & GANGWAY
ELEVATION



EXISTING TRESTLE AND BOAT GRID

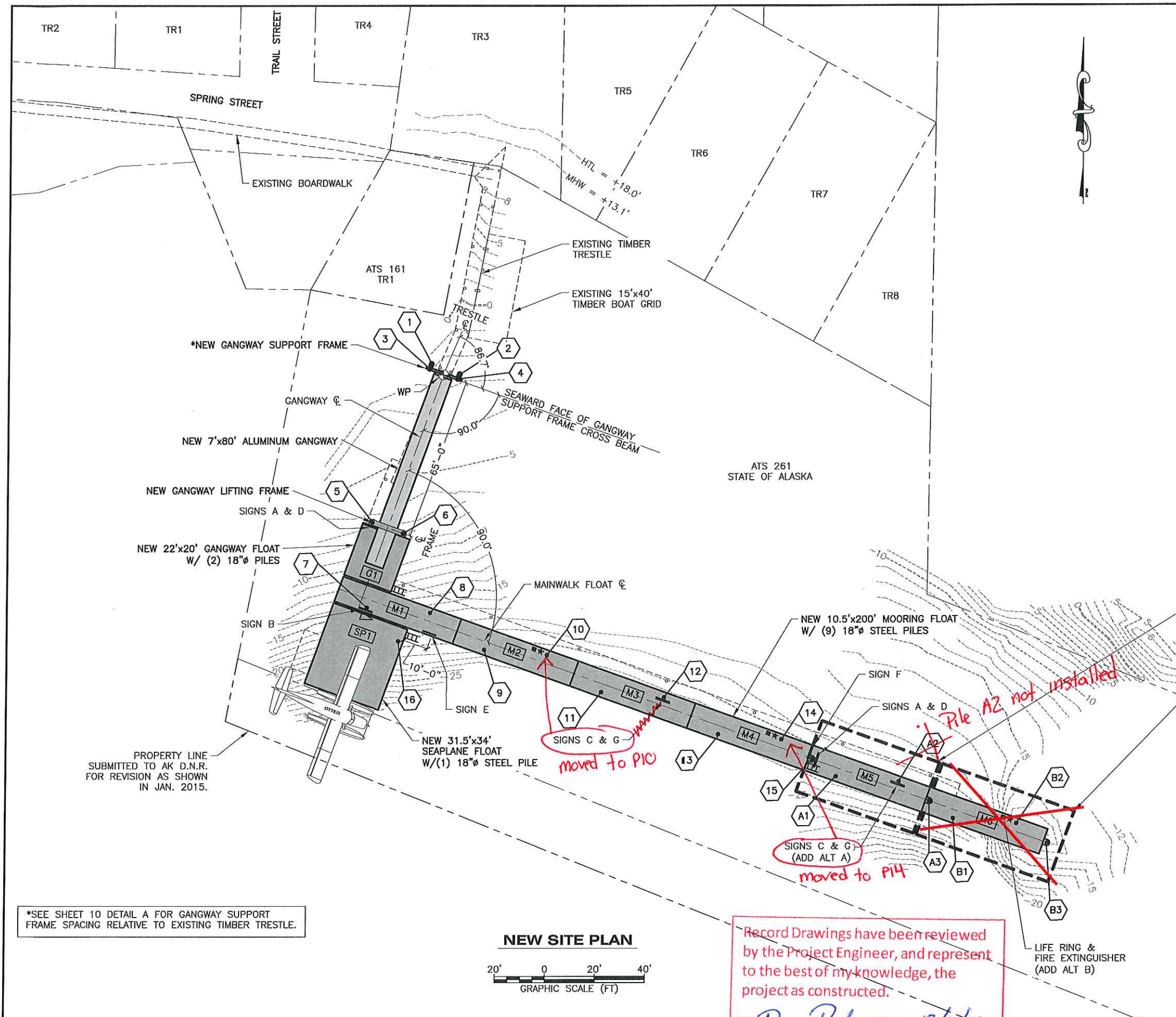


EXISTING GANGWAY CONNECTION

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE *Dave Paul* Date 12/6/16

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
		BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
		DEMOLITION DETAILS			
CHECKED BY: K. MILLER		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
DRAWN BY: STAFF		68353	2016	04	41
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TAB: 04 Wednesday, January 06, 2016 2:21:53 PM MISTY L. BUTLER					
REVISIONS					
NO.	DATE	DESCRIPTION			



PROJECT LAYOUT NOTES:
 1. MAINWALK FLOAT CENTERLINE PARALLEL TO GANGWAY SUPPORT FRAME CROSS BEAM.
 2. GANGWAY LIFTING FRAME AND GANGWAY FLOAT CENTERED WITH RESPECT TO GANGWAY CENTERLINE.

GENERAL NOTES:
 1. EXISTING PILE LOCATIONS ARE APPROXIMATE.
 2. BATHYMETRY LINES ARE APPROXIMATE.
 3. IF ADDITIVE ALTERNATE A IS AWARDED, EXTERNAL PILE AT END OF FLOAT M4 SHALL BE RELOCATED AT END OF FLOAT M5. SIGNS A, D, & F AND LADDER WILL ALSO BE LOCATED AT THE END OF FLOAT M5. FLOAT M4 WILL BE IDENTICAL TO FLOATS M1-M3. THIS ADDITIVE ALTERNATE ALSO INCLUDES THE ADDITION OF SIGNS C & H ON FLOAT M5.
 4. IF ADDITIVE ALTERNATE B IS AWARDED, EXTERNAL PILE AT END OF FLOAT M4 SHALL BE RELOCATED AT END OF FLOAT M6. SIGNS A, D, & F AND LADDER WILL ALSO BE LOCATED AT END OF FLOAT M6. FLOATS M4 & M5 WILL BE IDENTICAL TO FLOATS M1-M3. THIS ADDITIVE ALTERNATE ALSO INCLUDES THE ADDITION OF A FIRE EXTINGUISHER AND LIFE RING CABINET ON FLOAT M6.

LEGEND

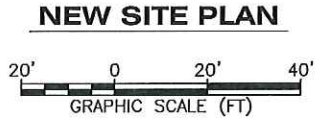
FLOAT DESIGNATION	XX
PILE DESIGNATION	X
FIRE EXTINGUISHER STATION	★
LIFE RING STATION	■
SIGN	—
WIND SOCK	▷
RESCUE LADDER	III

ADDITIVE ALTERNATE A:
 • FURNISH AND INSTALL NEW 10.5'x50' MAINWALK FLOAT SEGMENT
 • FURNISH AND INSTALL (2) 18" STEEL PIPE PILES
 • FURNISH AND INSTALL ALL SIGNAGE AND RESCUE LADDER, SEE GENERAL NOTES.

~~**ADDITIVE ALTERNATE B:**
 • FURNISH AND INSTALL NEW 10.5'x50' MAINWALK FLOAT SEGMENT
 • FURNISH AND INSTALL (2) 18" STEEL PIPE PILES
 • FURNISH AND INSTALL LIFE RING/FIRE EXTINGUISHER STATION, ALL SIGNAGE AND RESCUE LADDER, SEE GENERAL NOTES.~~

PROPERTY LINE SUBMITTED TO AK D.N.R. FOR REVISION AS SHOWN IN JAN. 2015.

*SEE SHEET 10 DETAIL A FOR GANGWAY SUPPORT FRAME SPACING RELATIVE TO EXISTING TIMBER TRESTLE.

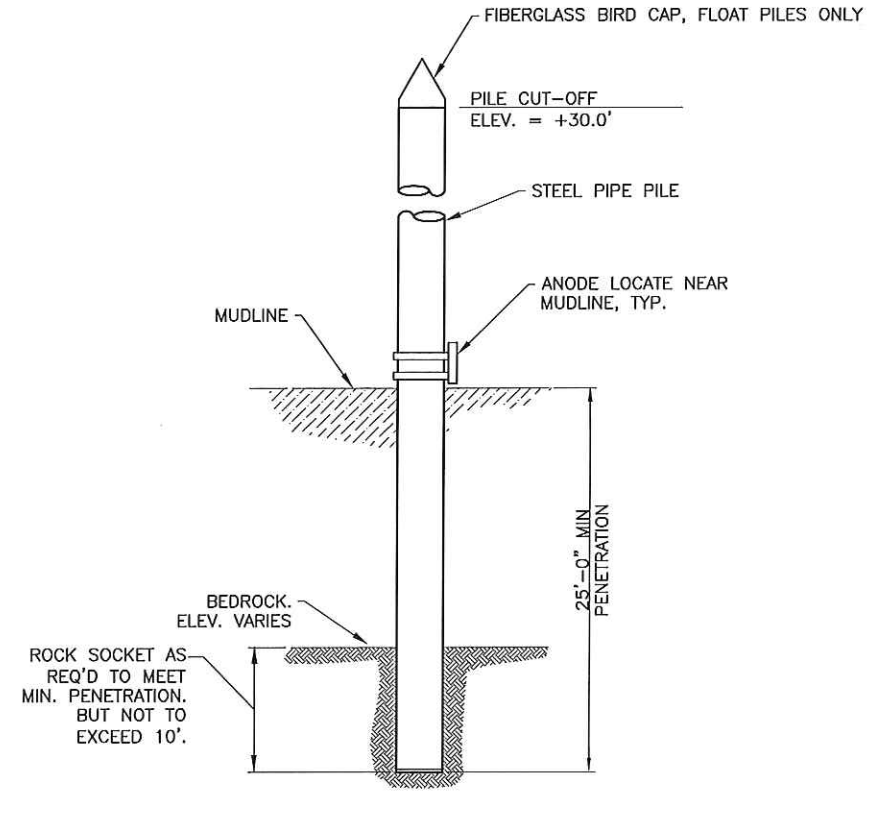
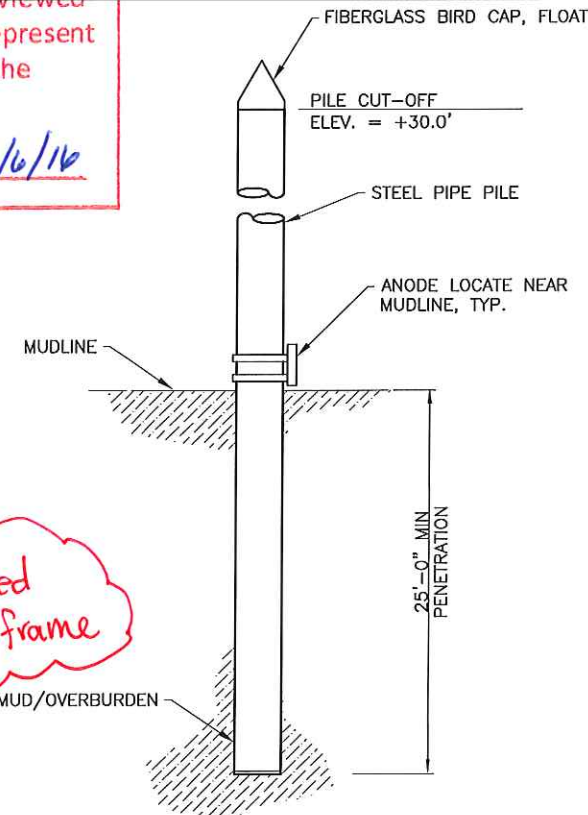
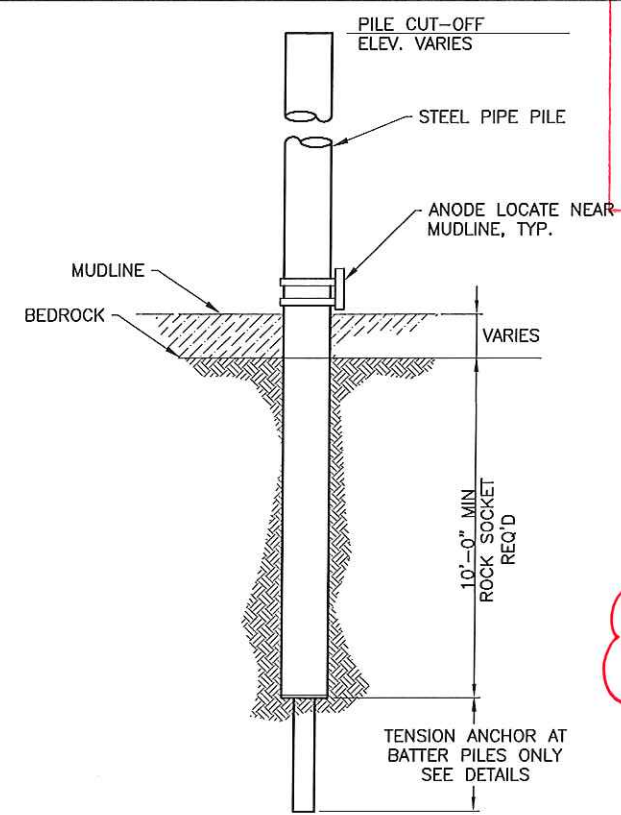


Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE *Dana Pule* Date *12/6/16*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
	NEW SITE PLAN & SURVEY CONTROL			
CHECKED BY: K. MILLER	PROJECT DESIGNATION: 68353			
DRAWN BY: STAFF	YEAR: 2016			
PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\05 - NEW SITE PLAN & SURVEY CONTROL.DWG	SHEET NO.: 05			
TAB: 05	TOTAL SHEETS: 41			
REVISIONS		PROJECT DESIGNATION		
NO.	DATE	DESCRIPTION	YEAR	SHEET NO.
			2016	05

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE Jane Palm Date 12/6/16



Sockets not installed at gangway lifting frame

GANGWAY SUPPORT FRAME/ GANGWAY LIFTING FRAME PILES

MOORAGE FLOAT PILE DETAIL - 1

MOORAGE FLOAT PILE DETAIL - 2

BOTH ROCK SOCKET AND TENSION ANCHOR REQUIRED AT BATTER PILES.
 Rock sockets and tension anchors not installed @ batter piles.

NO BEDROCK ENCOUNTERED. PILE DRIVEN TO MIN. PENETRATION.

BEDROCK ENCOUNTERED PRIOR TO MIN. PENETRATION. ROCK SOCKET REQUIRED.

PILE DATA

PILE ID	LOCATION	DIAMETER/WALL THICKNESS	ULTIMATE CAPACITY (KIPS)	APPX MUDLINE ELEV. (FT)	ESTIMATED BEDROCK ELEV. (FT)	ESTIMATED TIP ELEV. (FT)	ESTIMATED CUT-OFF ELEV. (FT)	ESTIMATED SUPPLY LENGTH (FT)
			UPLIFT					
1	* GANGWAY SUPPORT FRAME - BATTER	18"φ x 0.500"	50	-4	-20	-30	+25.0*	55
2	* GANGWAY SUPPORT FRAME - BATTER	18"φ x 0.500"	50	-4	-20	-30	+25.0*	55
3	* GANGWAY SUPPORT FRAME - VERT.	18"φ x 0.500"	-	-4	-20	-30	+22.0*	55
4	* GANGWAY SUPPORT FRAME - VERT.	18"φ x 0.500"	-	-4	-20	-30	+22.0*	55
5	** GANGWAY LIFTING FRAME	18"φ x 0.500"	-	-8	-45	-55	+35	90
6	** GANGWAY LIFTING FRAME	18"φ x 0.500"	-	-8	-45	-55	+35	90
7	MOORAGE FLOAT	18"φ x 0.500"	-	-15	-50	-50	+30	80
8	MOORAGE FLOAT	18"φ x 0.500"	-	-20	-50	-50	+30	80
9	MOORAGE FLOAT	18"φ x 0.500"	-	-20	-50	-50	+30	80
10	MOORAGE FLOAT	18"φ x 0.500"	-	-25	-50	-50	+30	80
11	MOORAGE FLOAT	18"φ x 0.500"	-	-25	-50	-55	+30	85
12	MOORAGE FLOAT	18"φ x 0.500"	-	-25	-50	-55	+30	85
13	MOORAGE FLOAT	18"φ x 0.500"	-	-25	-50	-55	+30	85
14	MOORAGE FLOAT	18"φ x 0.500"	-	-20	-50	-50	+30	80
15	MOORAGE FLOAT	18"φ x 0.500"	-	-20	-50	-55	+30	85
16	SEAPLANE FLOAT	18"φ x 0.500"	-	-20	-50	-50	+30	80

ADDITIVE ALTERNATE A

A1	MOORAGE FLOAT	18"φ x 0.500"	-	-25	-50	-55	+30	85
A2	MOORAGE FLOAT	18"φ x 0.500"	-	-25	-50	-55	+30	85
A3	MOORAGE FLOAT	PILE 15 SHALL BE RELOCATED TO POSITION A3 AT THE END OF FLOAT M5, AS SHOWN ON THE NEW SITE PLAN.						

ADDITIVE ALTERNATE B

B1	MOORAGE FLOAT	18"φ x 0.500"	-	-25	-50	-55	+30	85
B2	MOORAGE FLOAT	18"φ x 0.500"	-	-15	-40	-40	+30	75
B3	MOORAGE FLOAT	PILE 15 SHALL BE RELOCATED TO POSITION B3 AT THE END OF FLOAT M6, AS SHOWN ON THE NEW SITE PLAN.						

PILE NOTES:
 1. DRIVE ALL PILES TO REQUIRED TIP ELEVATION, OR ROCK SOCKET PILES WHERE BEDROCK IS ENCOUNTERED PRIOR TO ESTIMATED TIP ELEVATION, AS DIRECTED BY THE ENGINEER.

Piles were embedded ~26 ft. Contractor conducted tensile pull test to verify each pile met the required 50 KIP uplift capacity.
 Encountered obstruction @ 18 ft bgs. Pile advanced to 17.5 w/ a 1" bearing plate welded to the bottom. ~56 KIP bearing capacity.

* CONTRACTOR TO VERIFY CUT-OFF ELEVATION ON-SITE. CUT-OFF ELEVATION SHALL RESULT IN THE TOP OF THE CROSS BEAM BEING AT THE SAME ELEVATION AS THE EXISTING TIMBER APPROACH TRESTLE DECK.
 ** GROUND ANODE REQUIRED, SEE DETAIL SHEET 08.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHWEST REGION

BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353

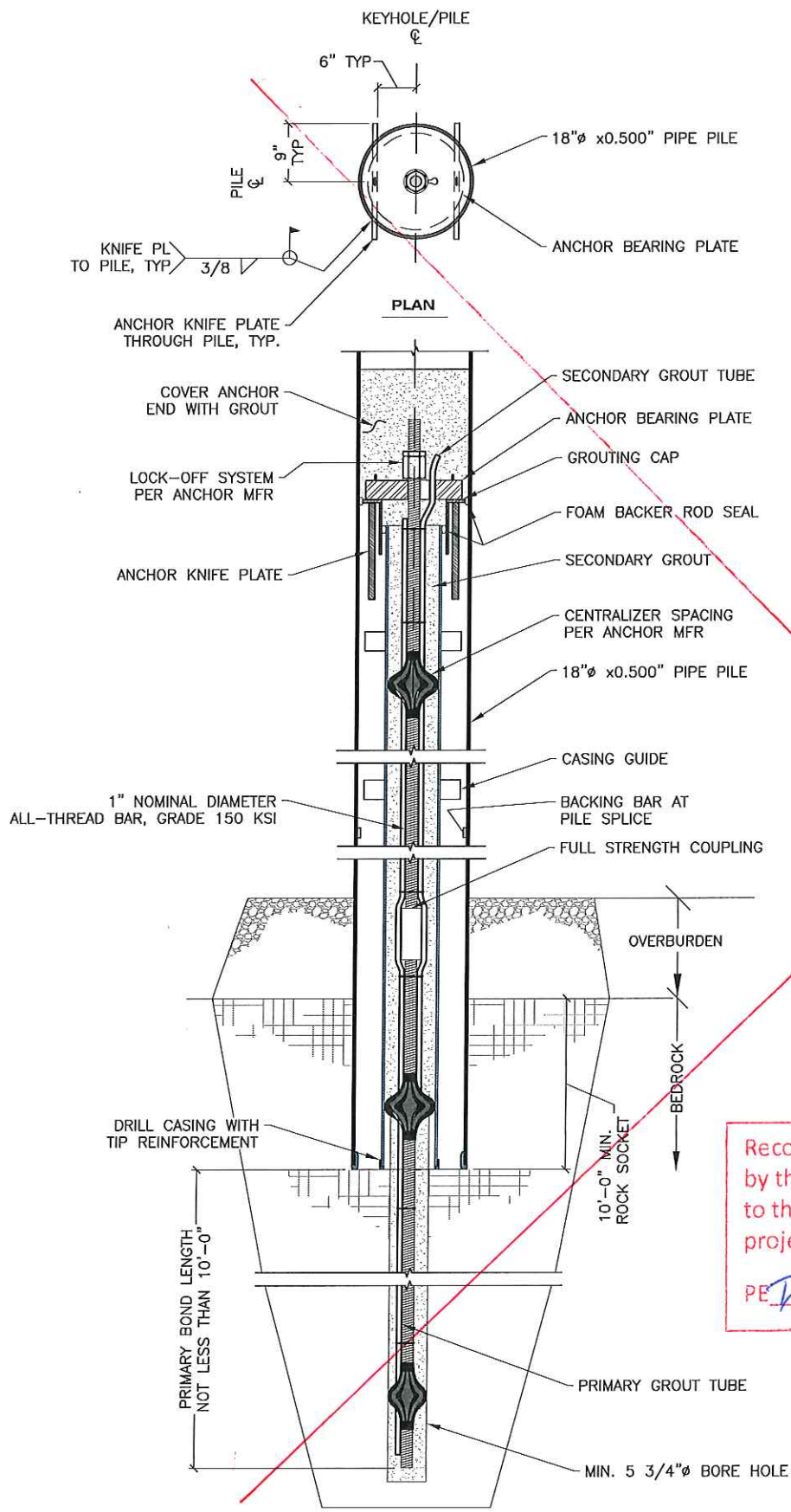
PILE DATA & DETAILS

CHECKED BY: K. MILLER
 DRAWN BY: STAFF

49th
 MISTY L. BUTLER
 CE-12570
 REGISTERED PROFESSIONAL ENGINEER

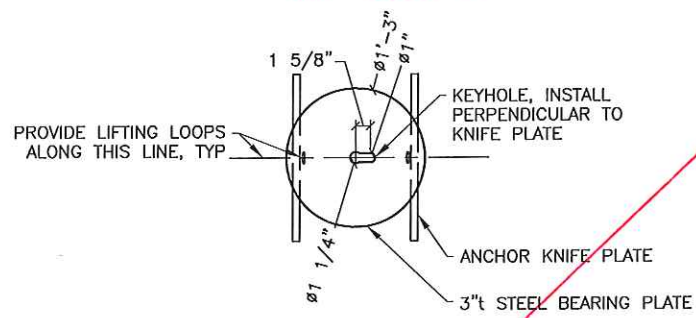
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 TAG: 06 Wednesday, January 06, 2016 2:22:17 PM MISTY L. BUTLER

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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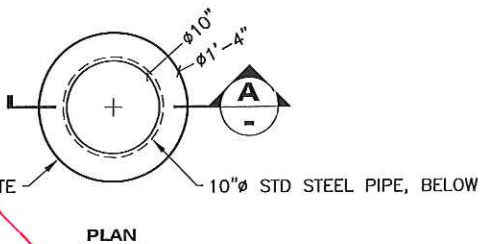
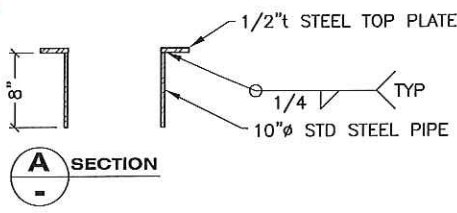


TENSION PILE ANCHOR
TYPICAL SECTION

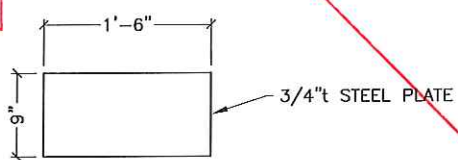
*Deleted Tension Anchors
in CO #1*



ANCHOR BEARING PLATE



GROUTING CAP



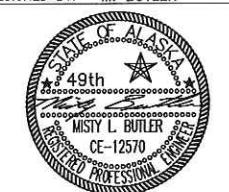
ANCHOR KNIFE PLATE

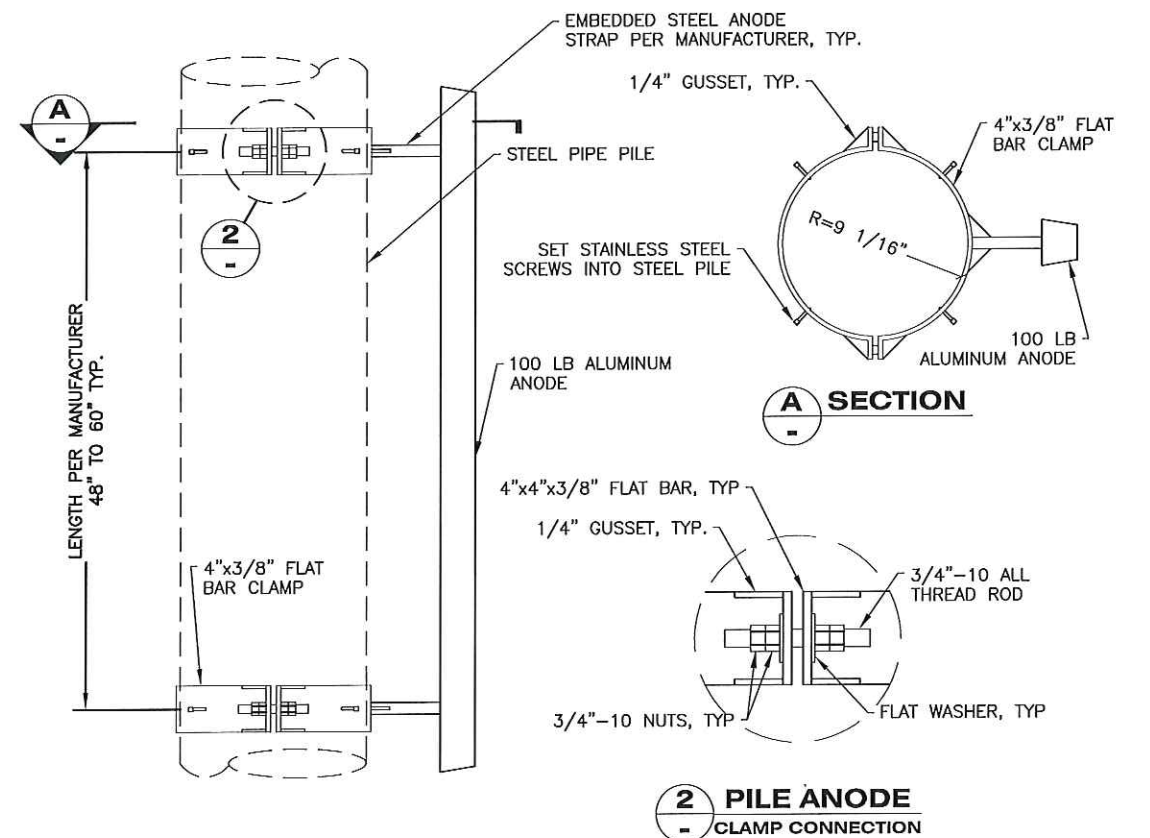
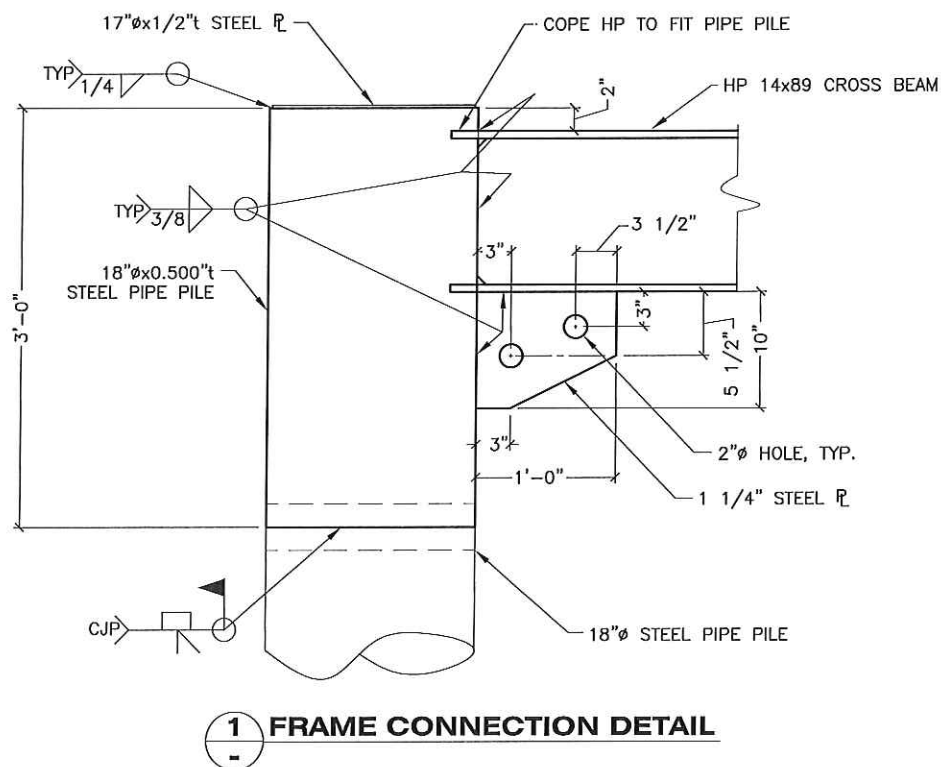
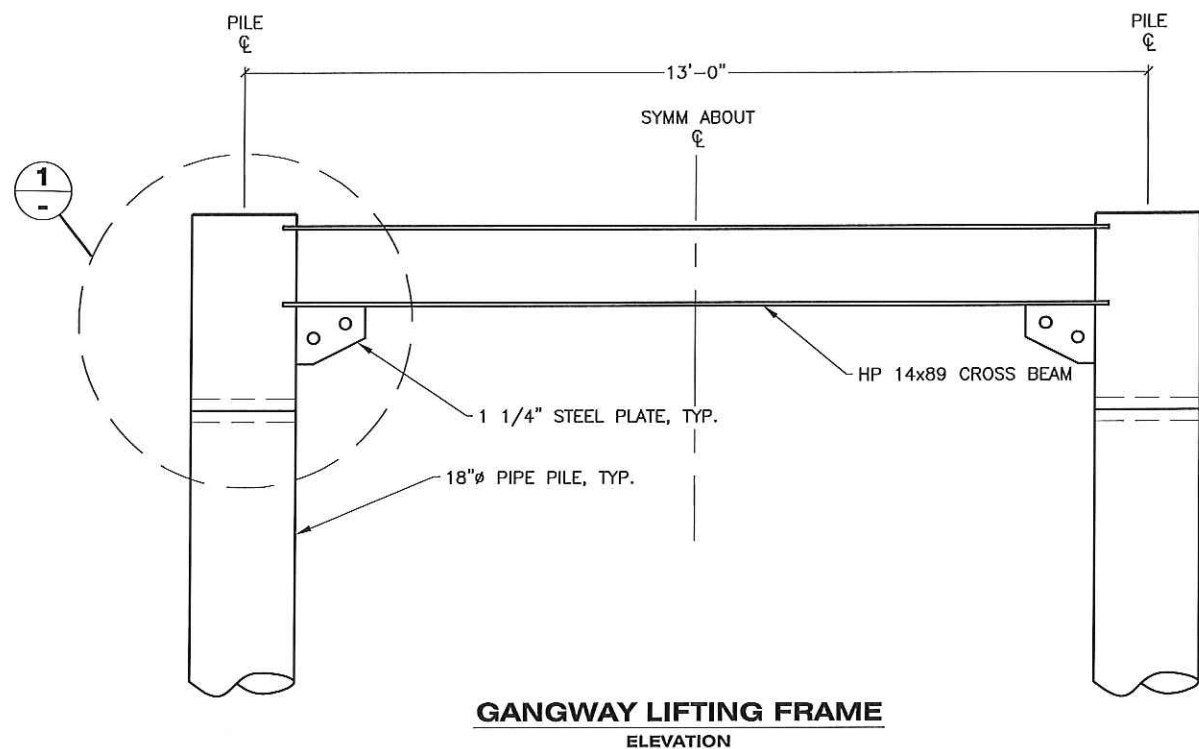
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE *Dave Rubin* Date 12/6/14

- TENSION PILE ANCHOR NOTES:**
- GENERAL**
- REFER TO SECTION 518 OF THE SPECIAL PROVISIONS FOR ADDITIONAL TENSION PILE REQUIREMENTS.
 - ANCHORING DETAILS AND METHODS SHOWN ARE A SUGGESTED PROCEDURE. METHODS OR MATERIALS MAY BE MODIFIED AT THE REQUEST OF THE CONTRACTOR - IF APPROVED BY THE ENGINEER PER SECTION 518.
- MATERIALS**
- ANCHOR RODS SHALL BE ALL-THREAD BAR PER ASTM A-722 & ASTM A-615, GRADE 150 KSI. COUPLINGS SHALL BE CAPABLE OF DEVELOPING THE FULL TENSILE STRENGTH OF THE BAR. ANCHOR RODS SHALL BE EQUIPPED WITH POLYETHYLENE CENTRALIZERS TO ENSURE THE ANCHOR ROD IS CENTERED IN THE CASING AND DRILLED HOLE.
 - STEEL ANCHOR BEARING AND KNIFE PLATES SHALL BE ASTM A572, GRADE 50.
 - PRIMARY AND SECONDARY GROUT MIXTURES SHALL BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH RECOMMENDATIONS PROVIDED BY THE ANCHOR ROD SYSTEM MANUFACTURER. SUBMIT GROUT MIXTURE DESIGNS TO THE ENGINEER FOR APPROVAL PRIOR TO START OF WORK. ALTERNATELY CONTRACTOR MAY USE PRE-MIXED, PRE-PACKAGED GROUT.
 - PRIMARY AND SECONDARY GROUT TUBE SYSTEMS SHALL BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH THE ANCHOR ROD MANUFACTURERS RECOMMENDATIONS FOR THE SELECTED GROUT MIXTURE AND GROUT PUMP.
- INSTALLATION PROCEDURE**
- DRIVE PILES TO PRACTICAL REFUSAL IN ROCK SOCKET- SEATING INTO COMPETENT BEDROCK. SECURE PILES IN BOTH LATERAL DIRECTIONS W/ BRACING OR OTHER MEANS PRIOR TO INSTALLING TENSION ANCHOR.
 - DRIVE DRILL CASING TO BOTTOM OF ROCK SOCKET.
 - DRILL THROUGH CASING AND INTO BEDROCK TO THE APPROVED DEPTH. CLEAN HOLE BY FLUSHING WITH WATER AND AIR.
 - INSTALL KNIFE PLATE SUPPORTS AND GROUTING CAP.
 - PLACE ANCHOR ROD WITH PRIMARY AND SECONDARY GROUT TUBES ATTACHED INTO CASING/DRILLED HOLE.
 - INJECT PRIMARY GROUT FROM THE BOTTOM OF THE HOLE TO THE TOP TO ENSURE COMPLETE COVERAGE. GROUT TUBE SHALL REMAIN FIXED TO THE ANCHOR AND NOT WITHDRAWN DURING GROUTING. MEASURE GROUT VOLUME TO ENSURE ANCHOR IS COVERED FOR THE DESIGN PRIMARY BOND LENGTH. ALLOW GROUT TO CURE UNDISTURBED TO THE SPECIFIED TEST STRENGTH.
 - PLACE ANCHOR BEARING PLATE AND CONDUCT PERFORMANCE OR PROOF TESTS IN ACCORDANCE WITH SECTION 518 OF THE SPECIAL PROVISIONS. THE TEST LOAD USED IN THE TEST PROCEDURE SHALL BE THE ULTIMATE UPLIFT CAPACITY SHOWN IN THE PILE DATA TABLE. AT THE COMPLETION OF TESTING, REDUCE TENSION TO THE LOCK-OFF LOAD AND TRANSFER LOAD TO THE BEARING PLATE BY TIGHTENING THE NUT. THE LOCK-OFF LOAD SHALL BE TAKEN AS 0.60 OF THE ULTIMATE UPLIFT CAPACITY SHOWN IN THE PILE DATA TABLE.
 - AFTER ANCHOR HAS BEEN ACCEPTED BY THE ENGINEER, PLACE SECONDARY GROUT AND ANCHORAGE GROUT OR CONCRETE COVER.

NOTE: ANCHOR PLATES SHALL BE WELDED TO PILE PRIOR TO CONDUCTING PROOF TEST ON TENSION ANCHOR.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION									
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353									
	TENSION PILE ANCHOR DETAILS									
CHECKED BY: K. MILLER	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS						
DRAWN BY: STAFF	68353	2016	07	41						
PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\07 - TENSION PILE ANCHOR DETAILS.DWG TAB: 07 Wednesday, January 06, 2016 2:23:37 PM MISTY L. BUTLER										
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NO.	DATE	DESCRIPTION								

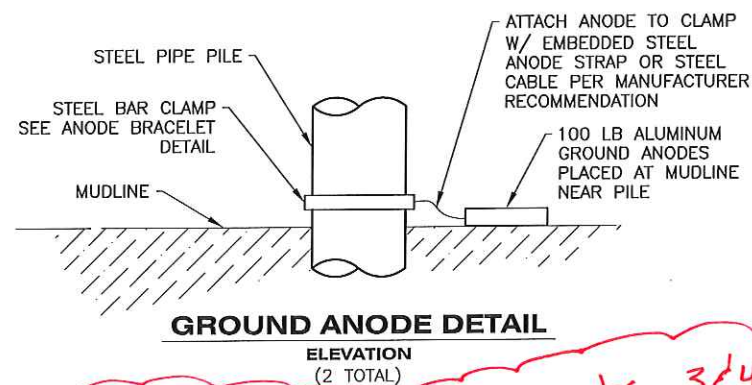


**ANODE BRACELET DETAIL
ELEVATION**

NOTE:
1. ANODES SHALL BE PLACED ON ALL PILES.
2. ANODES MAY BE WELDED UNDERWATER TO PILE IN LIEU OF USING ANODE BRACELET.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

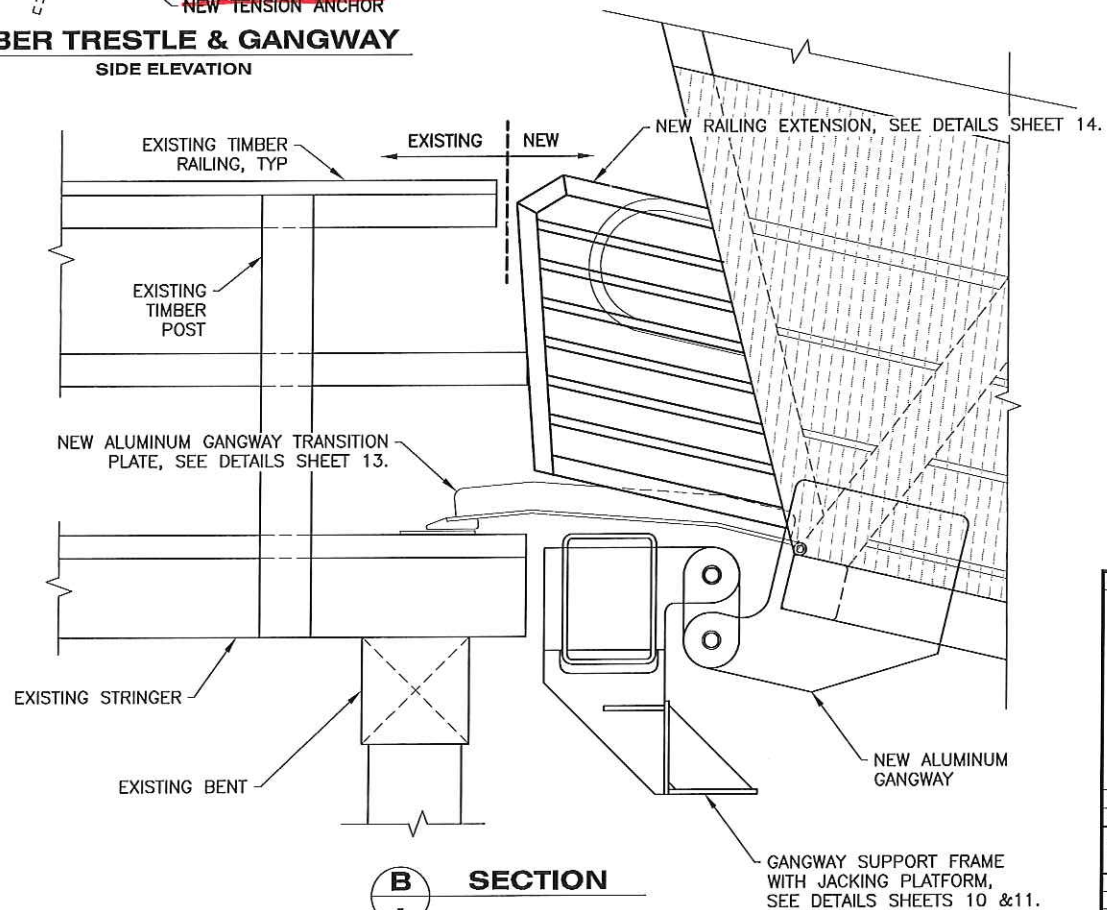
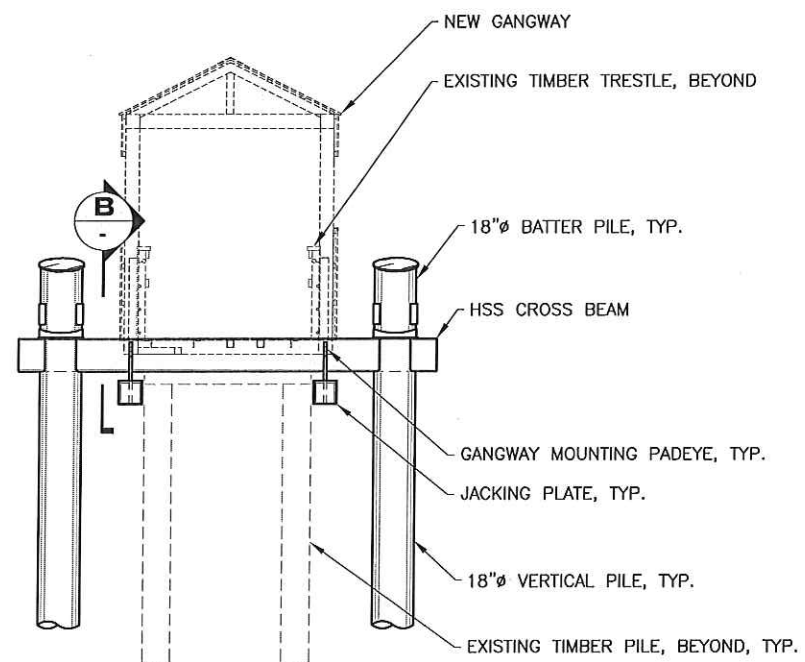
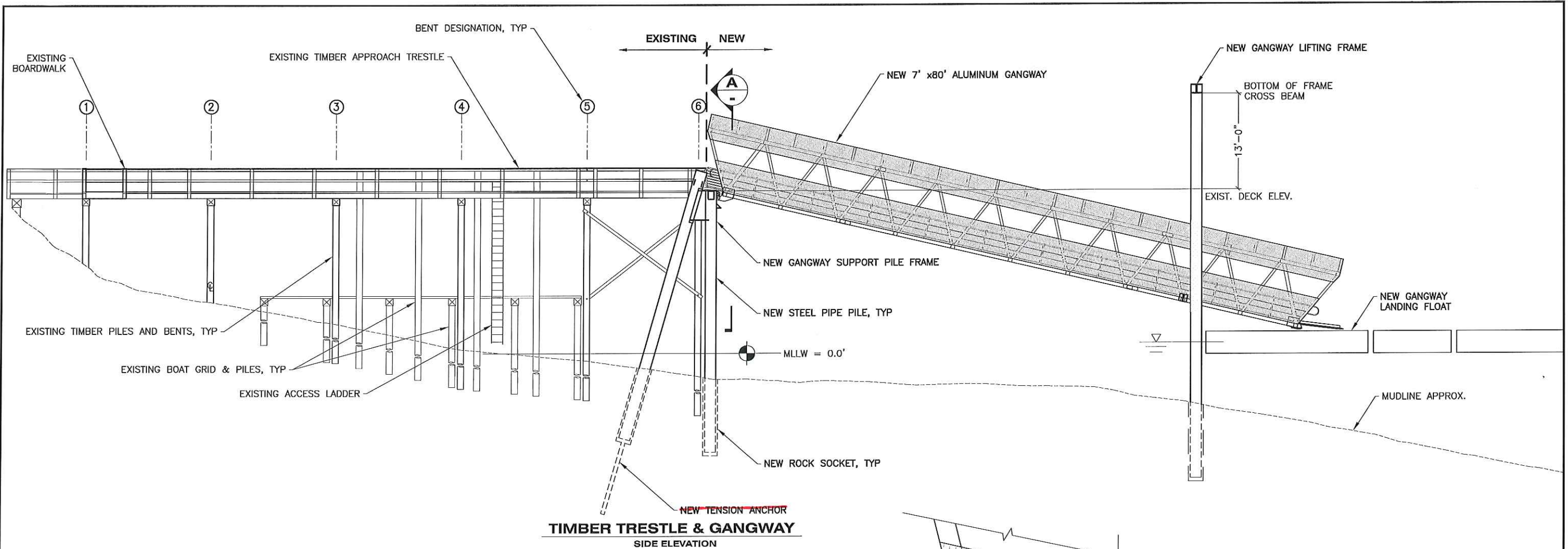
PE *Don R...* Date *12/6/16*



Anode bracelets used on piles 3&4 only. Remaining anodes were welded

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
	GANGWAY LIFTING FRAME & ANODE DETAILS			
CHECKED BY: K. MILLER	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
DRAWN BY: STAFF	68353	2016	08	41
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REVISIONS				
NO. DATE DESCRIPTION				

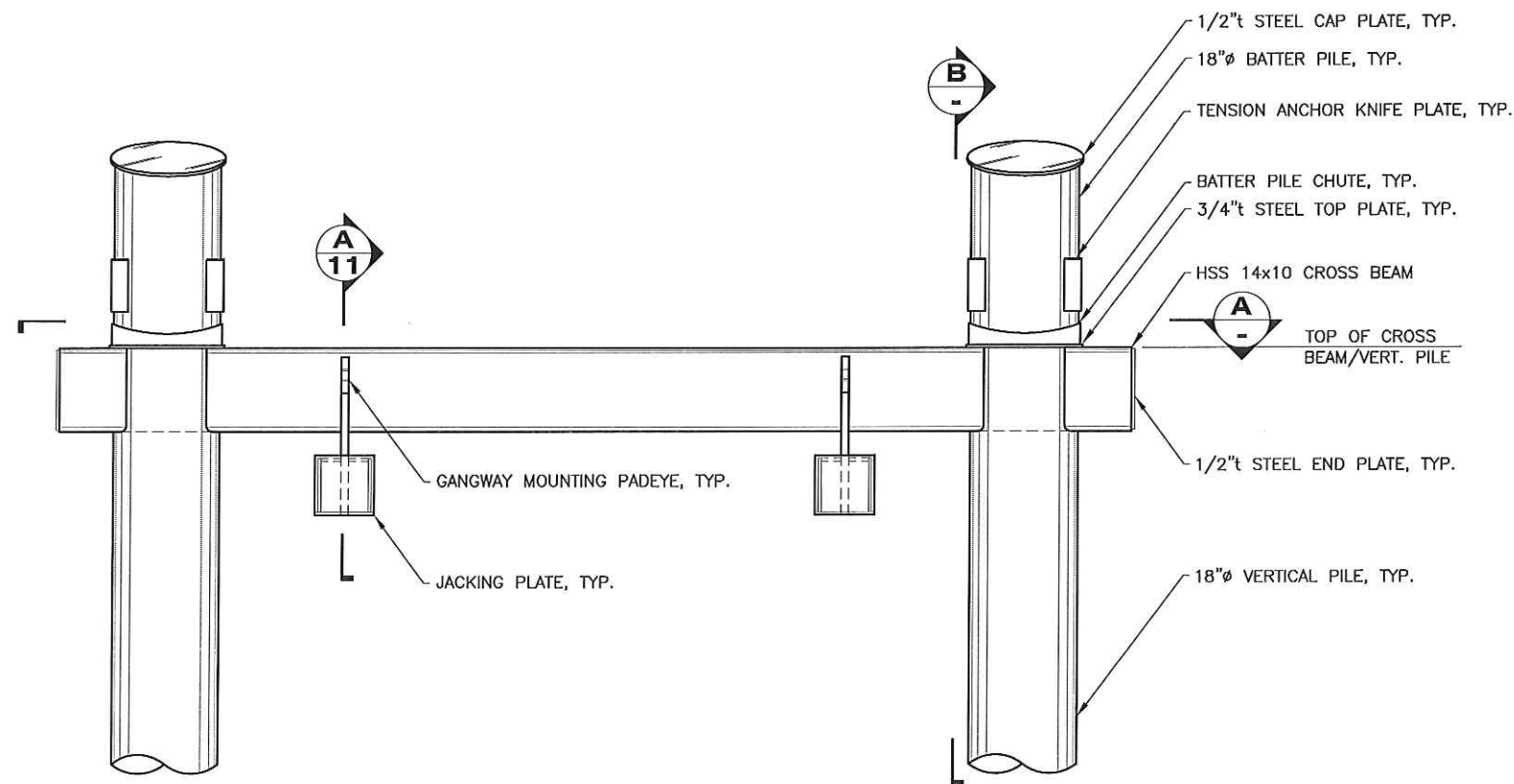


Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

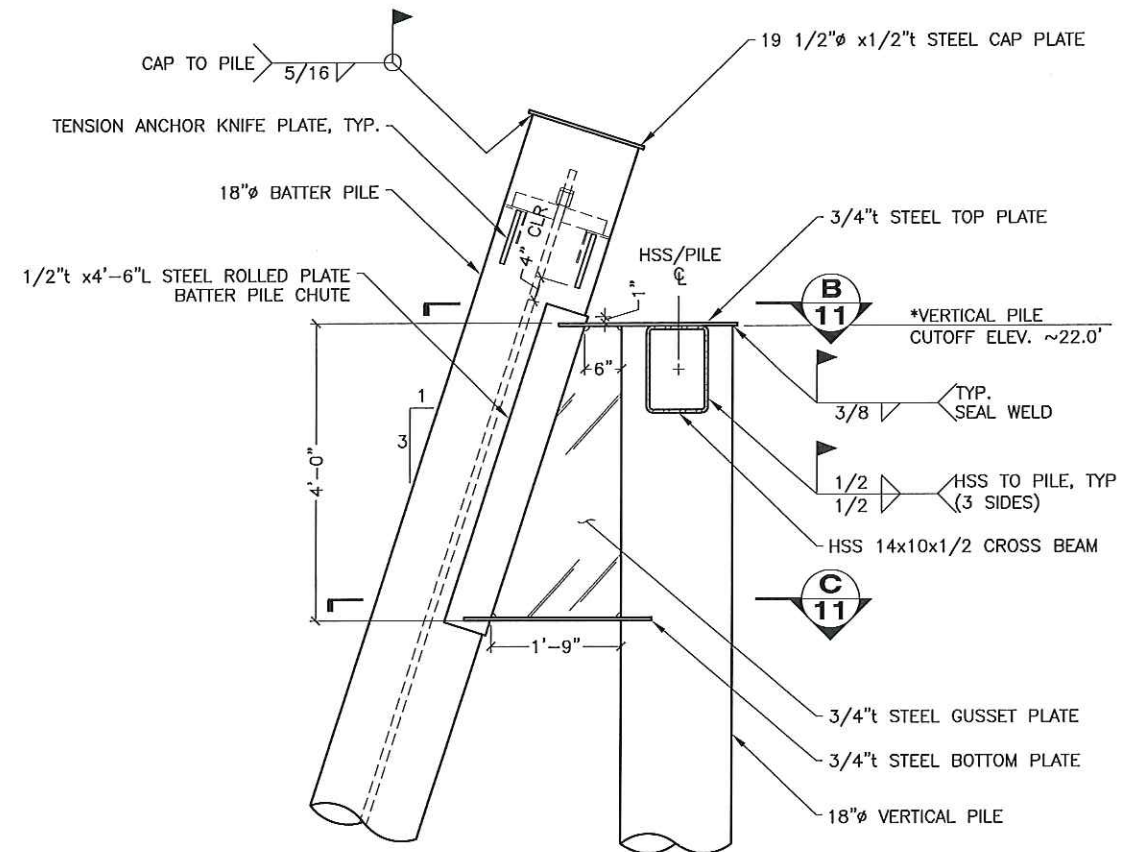
PE *Dave RR* Date *12/6/16*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

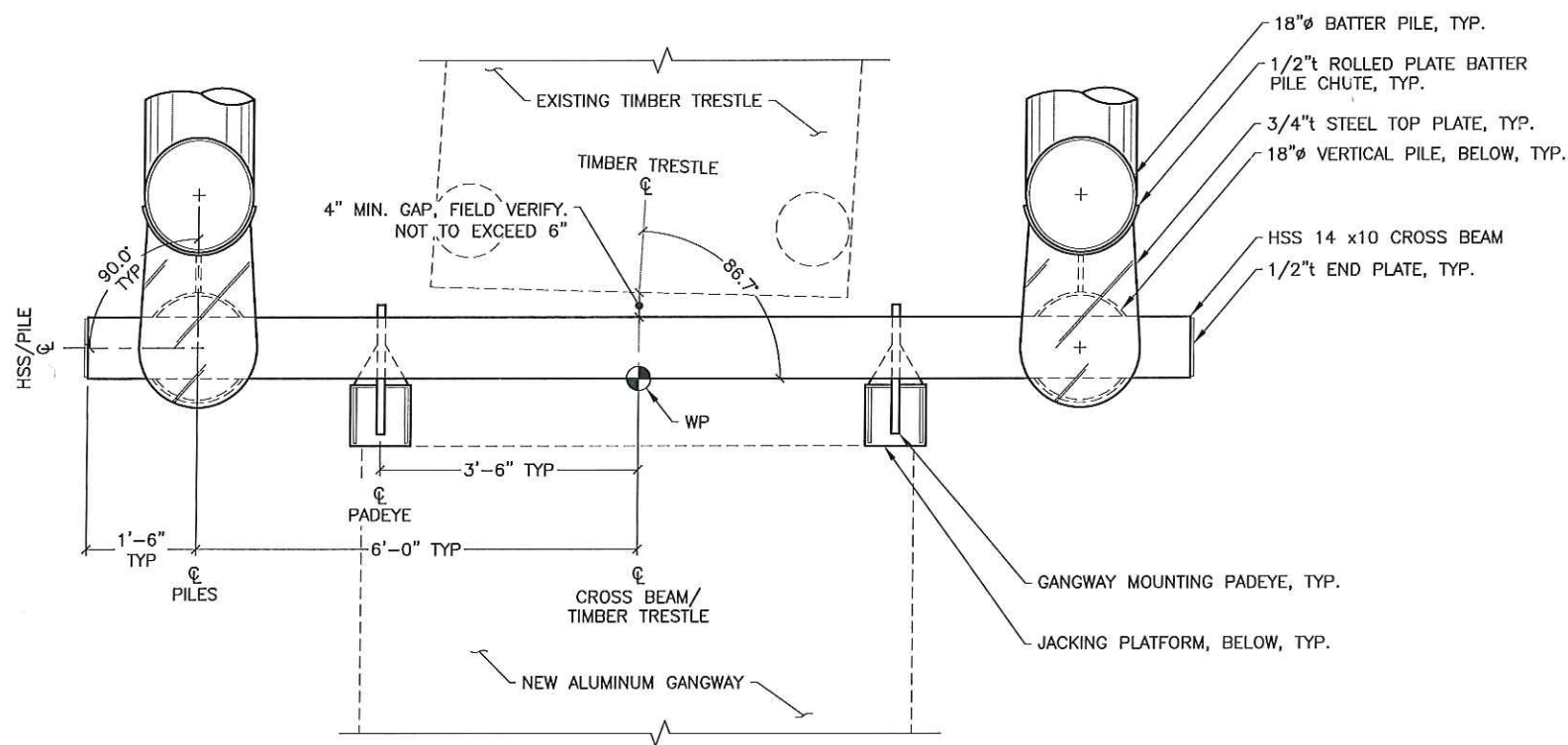
DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION				
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353				
	TIMBER TRESTLE & GANGWAY ELEVATION				
CHECKED BY: K. MILLER	PATH: Q:\SIT\68353\MF\PLANSET\B.FINAL -JAN 2016\09 - APPROACH DOCK & GANGWAY ELEVATION.DWG				
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REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	68353	2016 09	41



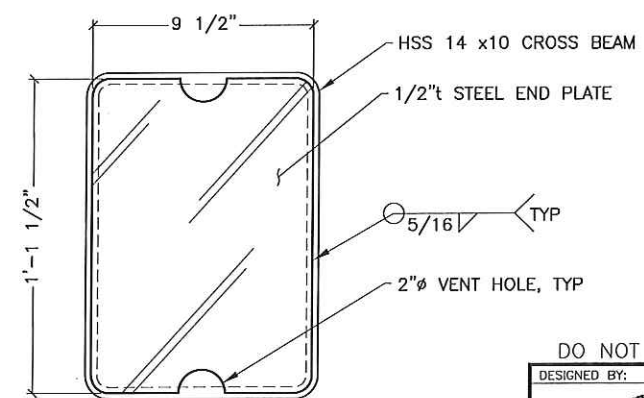
1 GANGWAY SUPPORT FRAME
FRONT ELEVATION



B SECTION
*SEE PILE DATA TABLE



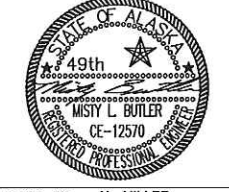
A GANGWAY SUPPORT FRAME
PLAN

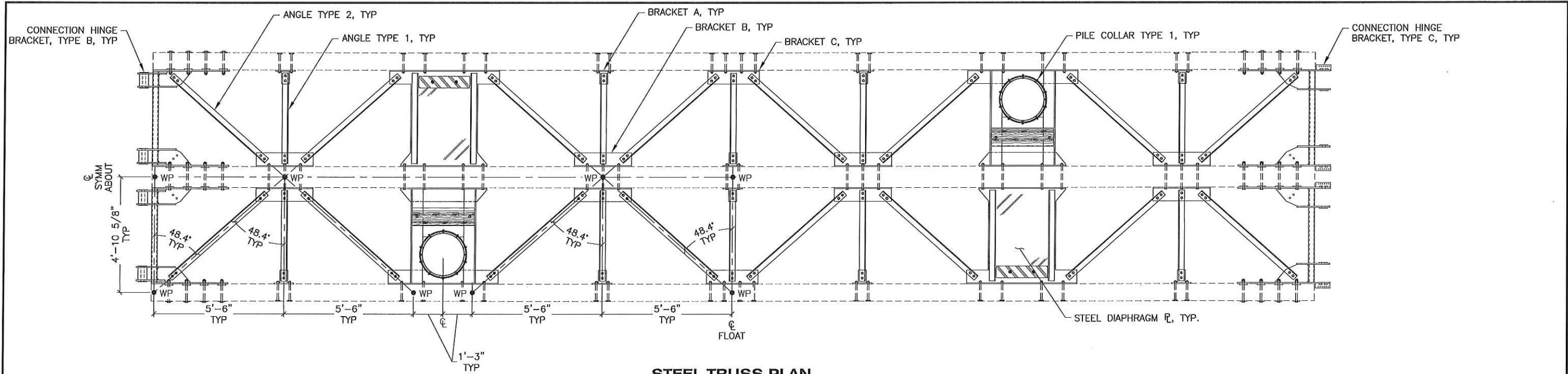


END PLATE
ELEVATION

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE *Blane Rb* Date *12/6/16*

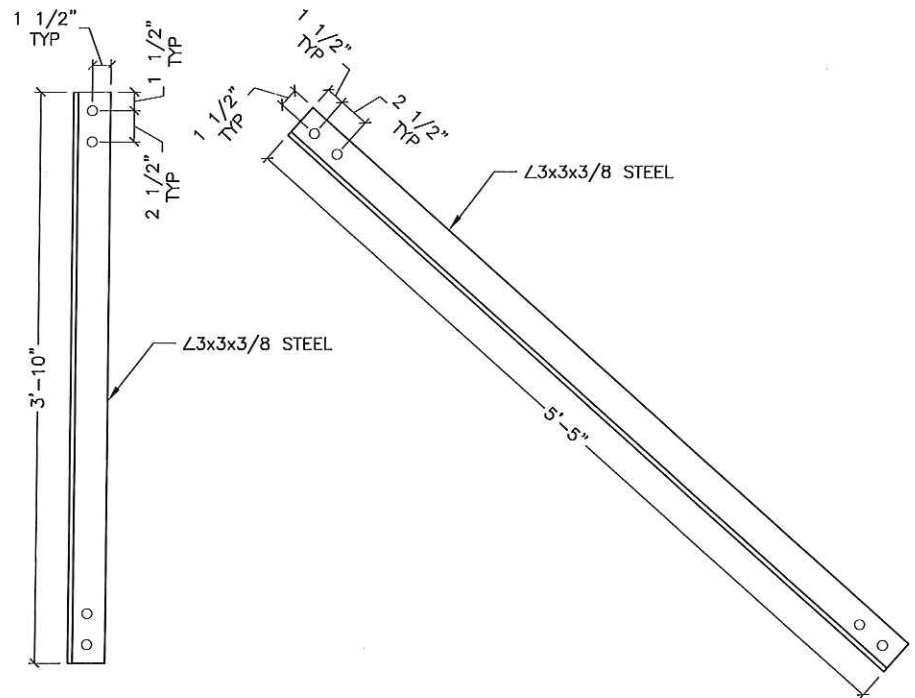
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION				
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353				
	GANGWAY SUPPORT FRAME DETAILS				
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REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	68353	2016 10	41



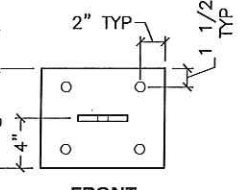
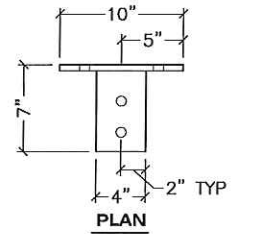
STEEL TRUSS PLAN

NOTES:
 1. ALL PLATES ARE 1/2"t ASTM A36 STEEL, U.O.N.
 2. ALL DRILLED HOLES ARE 13/16"Ø, FOR A 3/4"Ø A325 BOLT, U.O.N.
 3. ALL WELDS ARE 1/4" FILLET WELDS, BOTH SIDES, SEAL WELD, U.O.N.

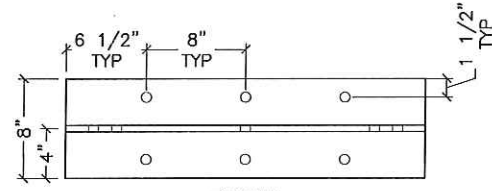
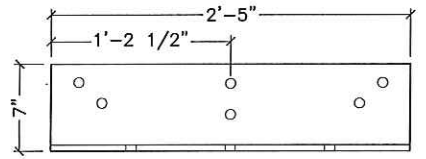


ANGLE TYPE 1
(10 EACH)

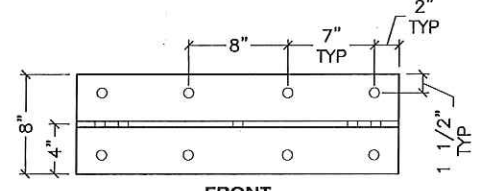
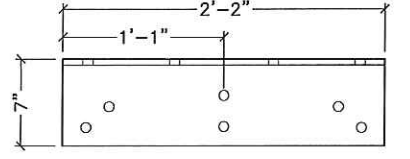
ANGLE TYPE 2
(16 EACH)



BRACKET A
(10 EACH)



BRACKET B
(8 EACH)



BRACKET C
(2 EACH)

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE *Danni Palu* Date 12/6/16

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER

CHECKED BY: K. MILLER

DRAWN BY: STAFF

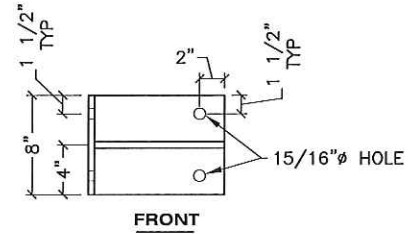
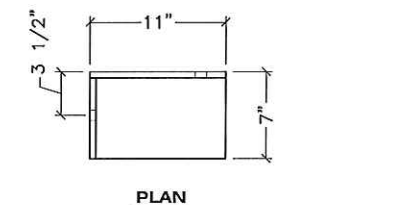
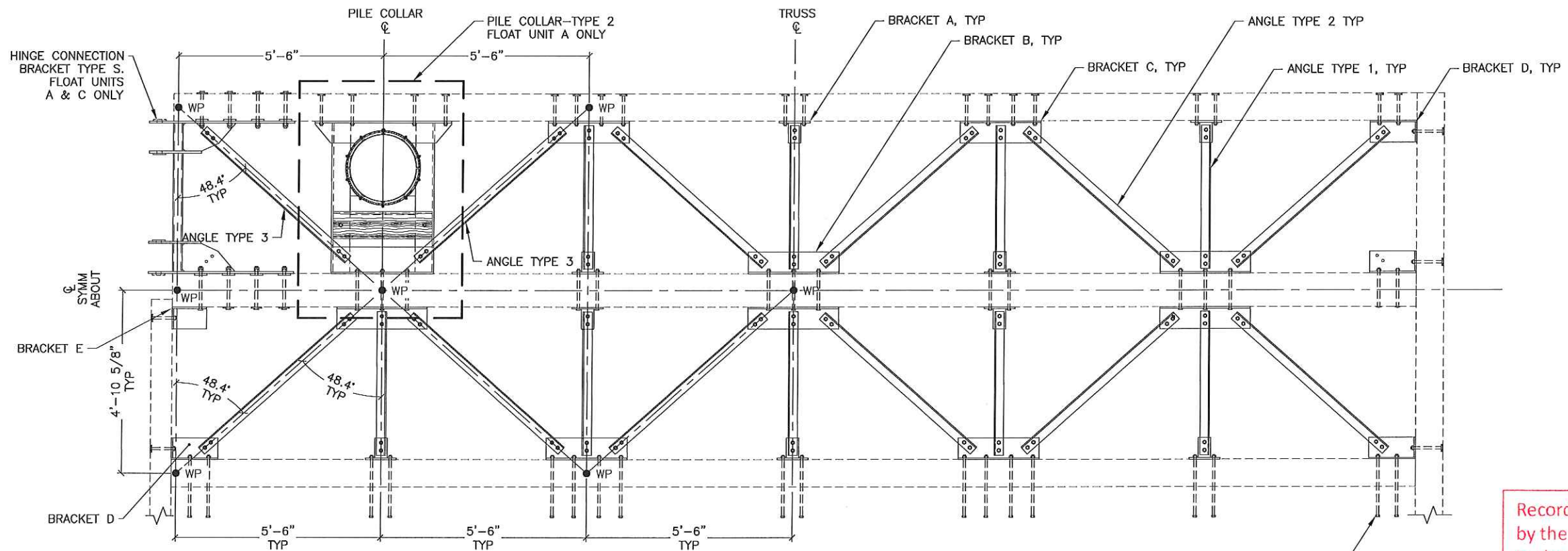
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHCOAST REGION

BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353

MAINWALK FLOAT FRAMING DETAILS

PATH: Q:\SIT\68353\MF\PLANSET\B.FINAL -JAN 2016\22 - MAINWALK FLOAT FRAMING DETAILS.DWG
 TAB: 22 Wednesday, January 06, 2016 2:56:34 PM MISTY L. BUTLER

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			68353	2016	22	41



BRACKET E
(2 TOTAL)

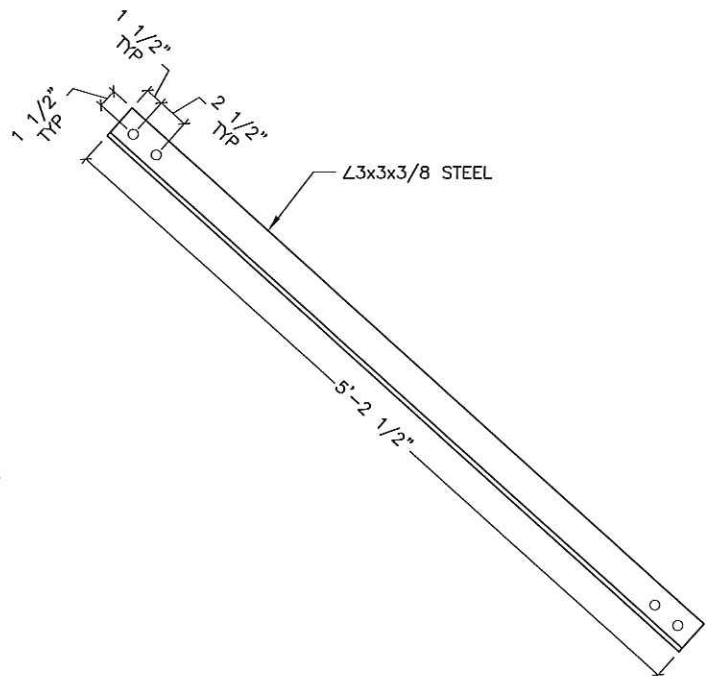
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE *David R. R...* Date 12/6/16

STEEL TRUSS PLAN

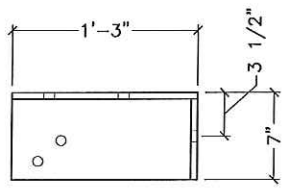
NOTE: FLOAT UNIT A SHOWN. FLOAT UNITS B & C SIMILAR.

LONG THRU-BOLT TO ATTACH FLOAT UNITS TOGETHER, TYP. (TOP BOLTS ONLY)

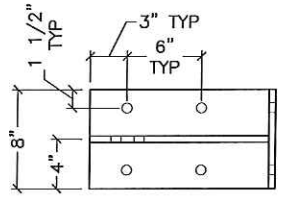
- NOTES:
1. ALL PLATES ARE 1/2"t ASTM A36 STEEL, U.O.N.
 2. ALL DRILLED HOLES ARE 13/16"Ø, FOR A 3/4"Ø A325 BOLT, U.O.N.
 3. ALL WELDS ARE 1/4" FILLET WELDS, BOTH SIDES, SEAL WELD, U.O.N.
 4. ALL DETAILS NOT SHOWN SIMILAR TO TYPICAL MAINWALK FLOAT TRUSS FRAME DETAILS.



ANGLE TYPE 3
(4 PER FLOAT UNIT)



BRACKET D



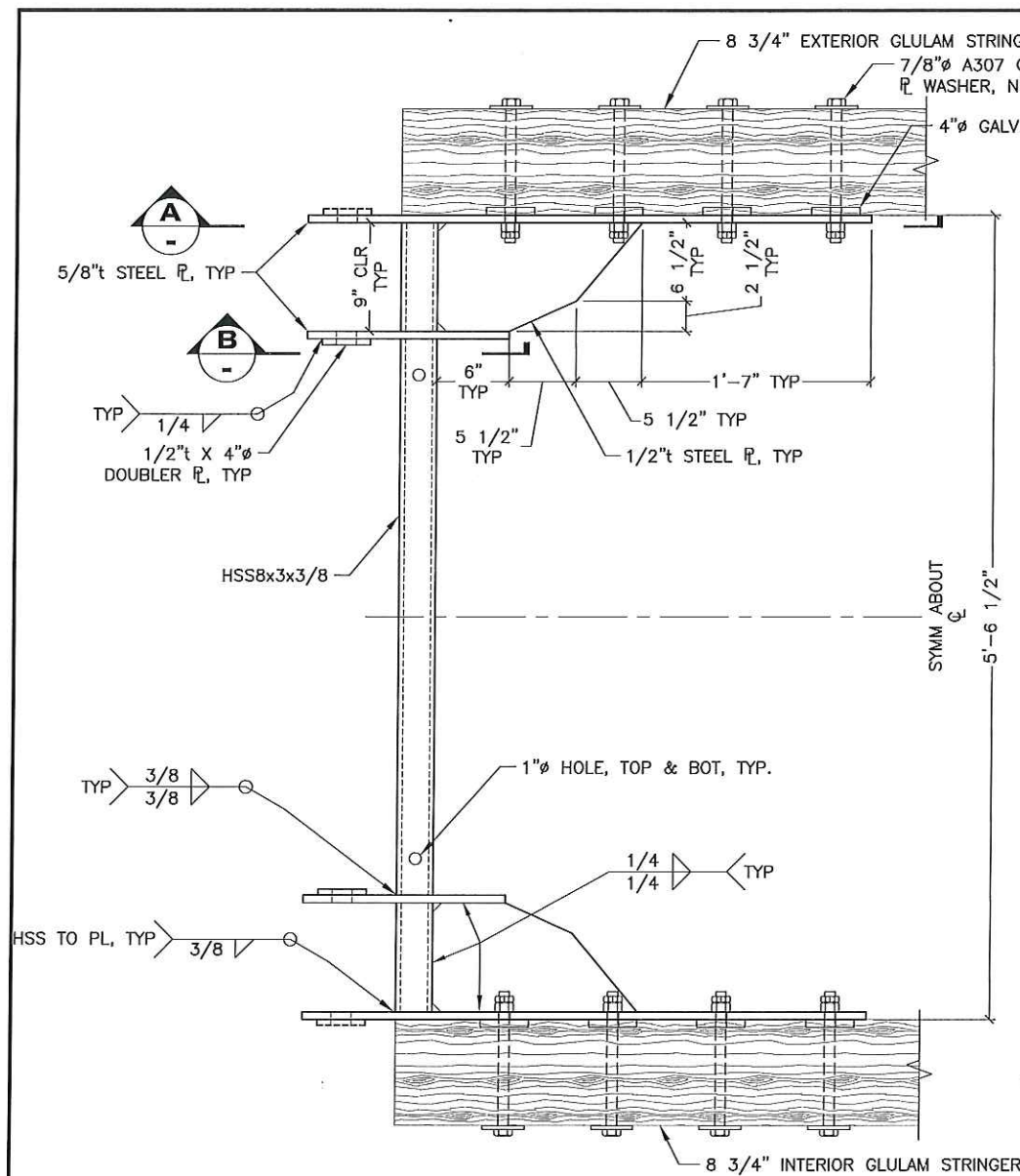
BRACKET D

(16 TOTAL - FLOAT UNITS A, B & C)

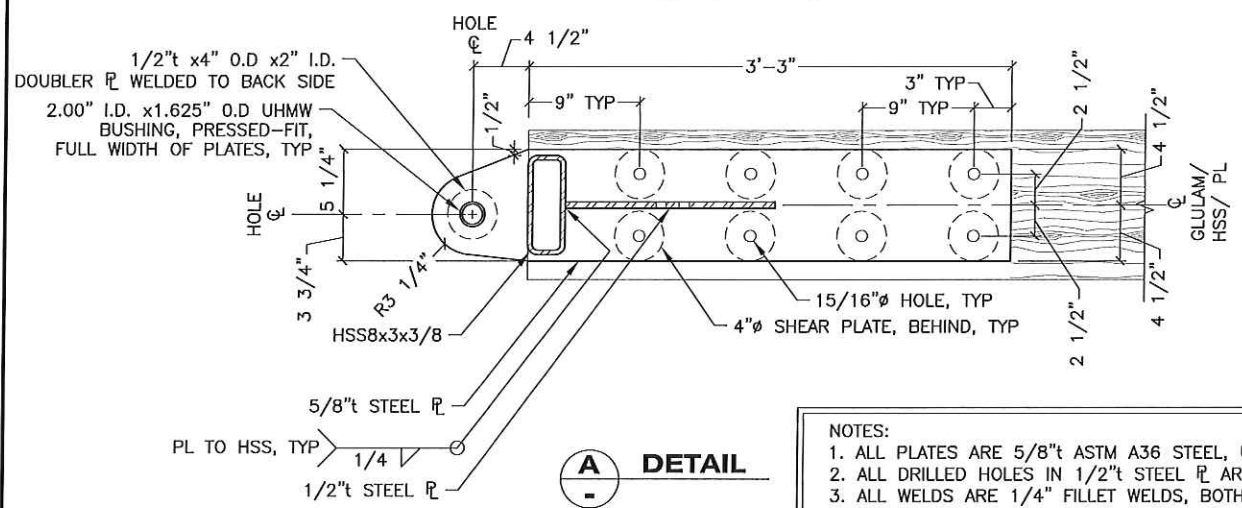
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
	SEAPLANE FLOAT FRAMING DETAILS			
CHECKED BY: K. MILLER	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
DRAWN BY: STAFF	68353	2016	23	41
PATH: Q:\SIT\68353\MF\PLANSET\B. FINAL -JAN 2016\23 - SEAPLANE FLOAT FRAMING DETAILS.DWG TAB: 23 Wednesday, January 06, 2016 2:56:47 PM MISTY L. BUTLER				
REVISIONS NO. DATE DESCRIPTION				

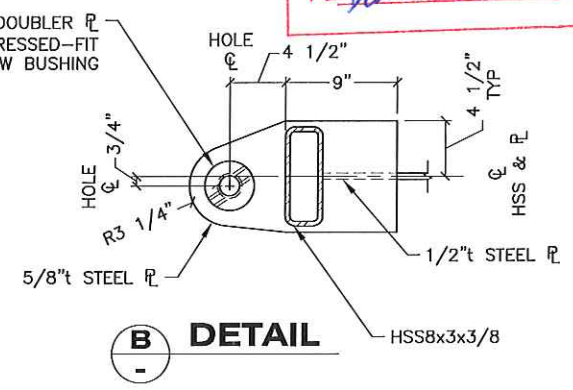
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE *Dave Pelt* Date *12/6/16*



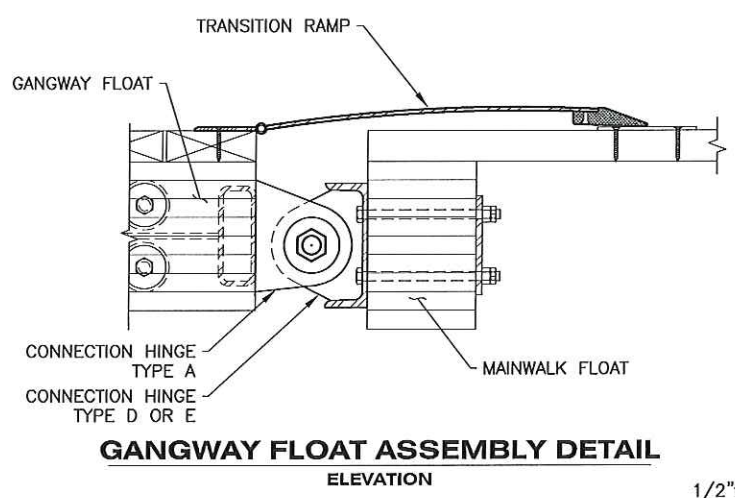
CONNECTION HINGE BRACKET - TYPE A
 (2 EACH)
 PLAN
 (GANGWAY FLOAT)



NOTES:
 1. ALL PLATES ARE 5/8"t ASTM A36 STEEL, U.O.N.
 2. ALL DRILLED HOLES IN 1/2"t STEEL PL ARE 13/16"Ø, U.O.N.
 3. ALL WELDS ARE 1/4" FILLET WELDS, BOTH SIDES, SEAL WELD, U.O.N.
 4. 4"Ø SHEAR PLATES SHALL BE PROVIDED AT ALL WOOD-TO-STEEL PL INTERFACES OF HINGE CONNECTION.

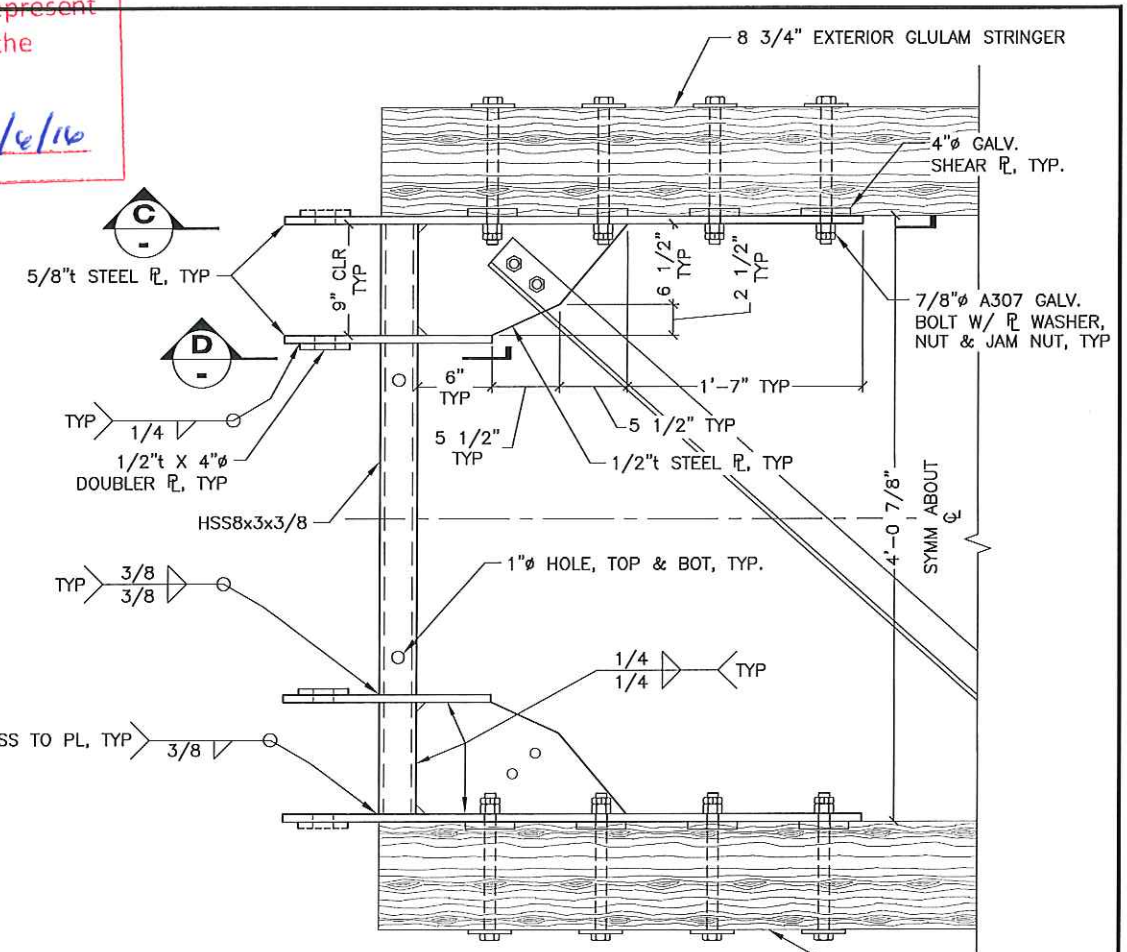


DETAIL B
 HSS8x3x3/8

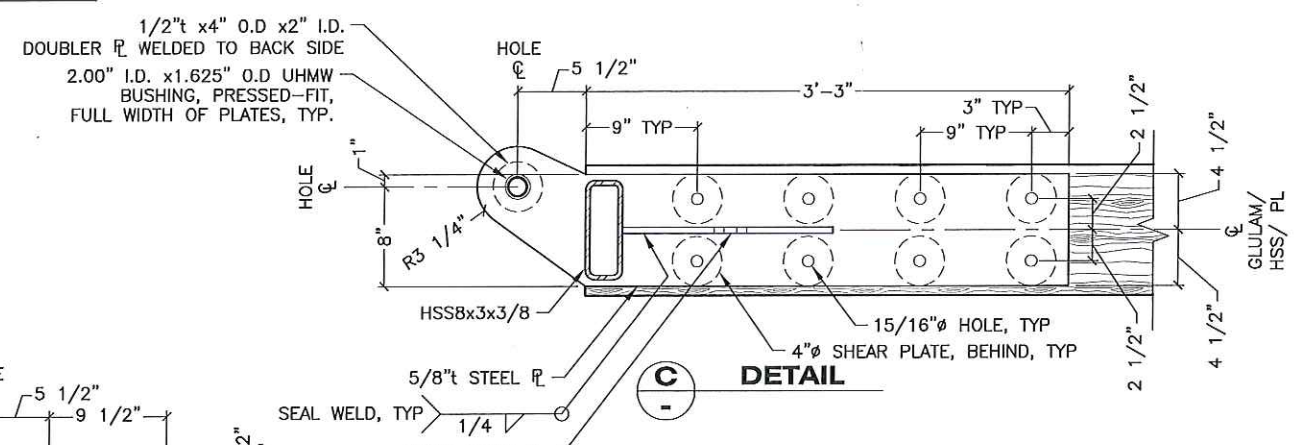


GANGWAY FLOAT ASSEMBLY DETAIL
 ELEVATION

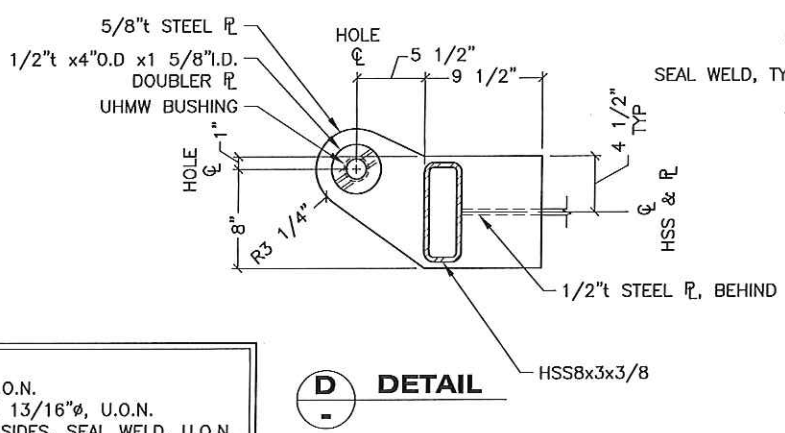
NOTES:
 1. GANGWAY FLOAT ASSEMBLY DETAIL SHOWN ABOVE. SEAPLANE ASSEMBLY DETAIL SIMILAR.
 2. DETAILS NOT SHOWN SIMILAR TO FLOAT-TO-FLOAT CONNECTION ASSEMBLY, SEE DETAILS.



CONNECTION HINGE BRACKET - TYPE S
 (2 EACH)
 PLAN
 (SEAPLANE FLOAT)



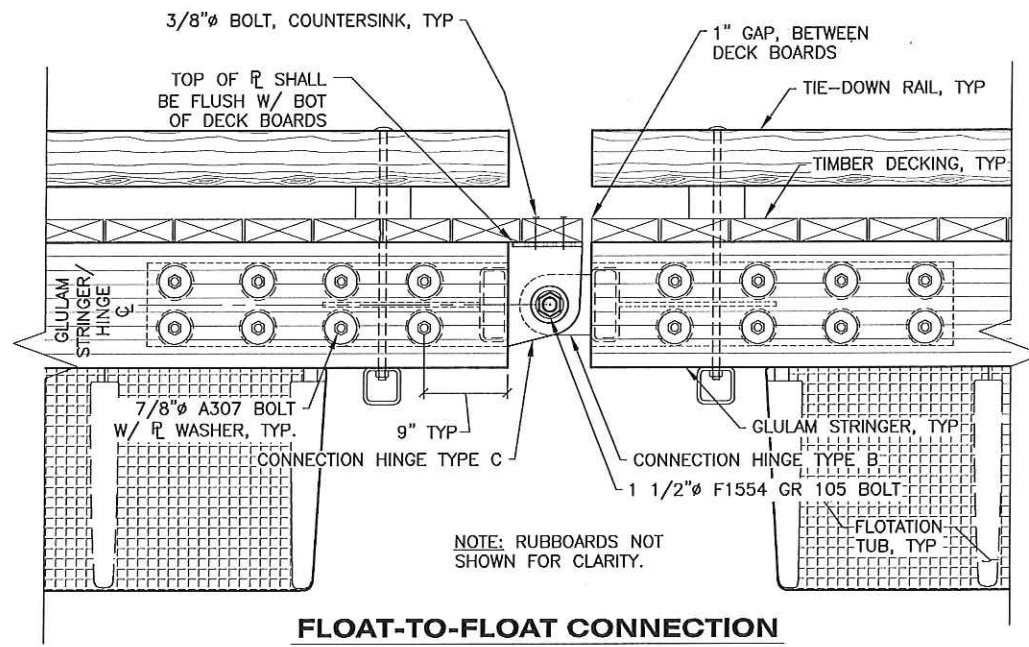
DETAIL C
 HSS8x3x3/8



DETAIL D
 HSS8x3x3/8

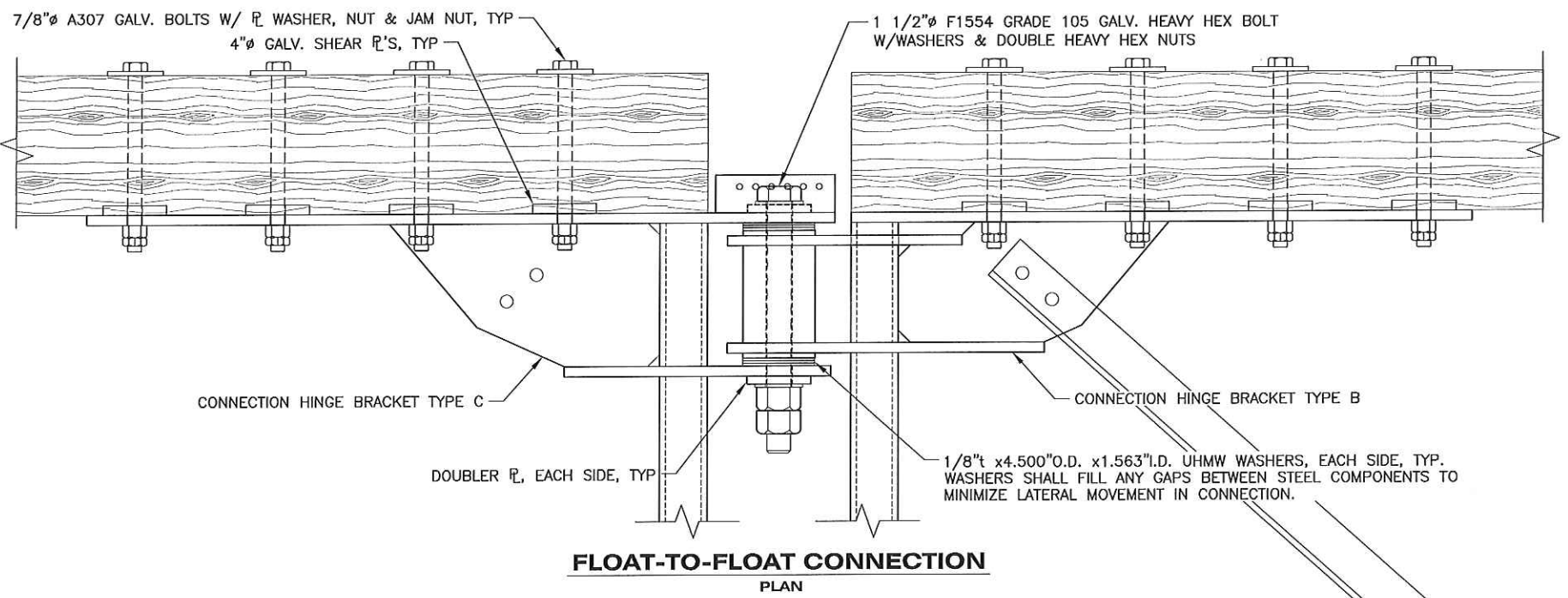
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHWEST REGION															
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353															
	CONNECTION HINGE DETAILS															
CHECKED BY: K. MILLER	PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\24 - CONNECTION HINGE DETAILS.DWG															
DRAWN BY: STAFF	TAB: 24 Wednesday, January 06, 2016 2:56:57 PM MISTY L. BUTLER															
<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION				<table border="1"> <thead> <tr> <th>PROJECT DESIGNATION</th> <th>YEAR</th> <th>SHEET NO.</th> <th>TOTAL SHEETS</th> </tr> </thead> <tbody> <tr> <td>68353</td> <td>2016</td> <td>24</td> <td>41</td> </tr> </tbody> </table>	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	68353	2016	24	41
NO.	DATE	DESCRIPTION														
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS													
68353	2016	24	41													

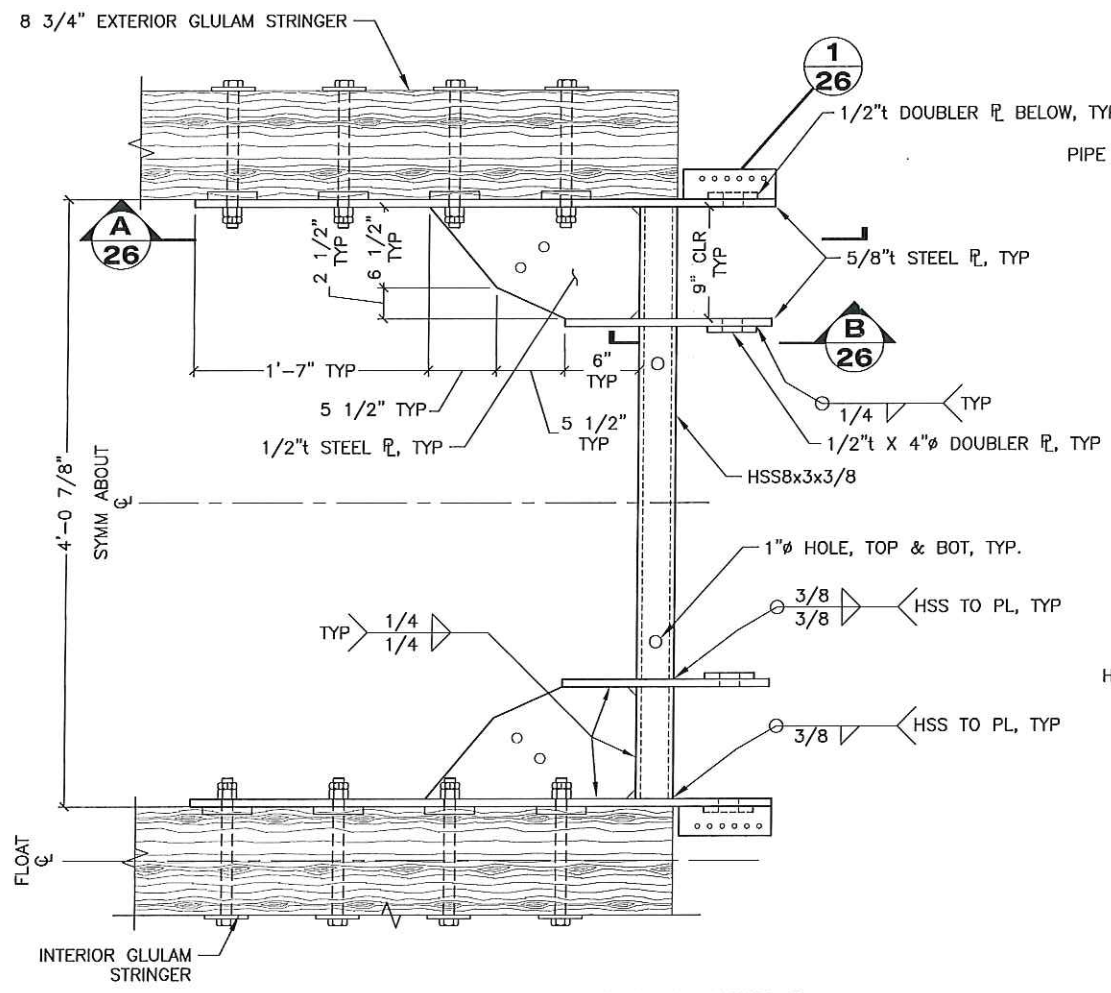


FLOAT-TO-FLOAT CONNECTION
ELEVATION

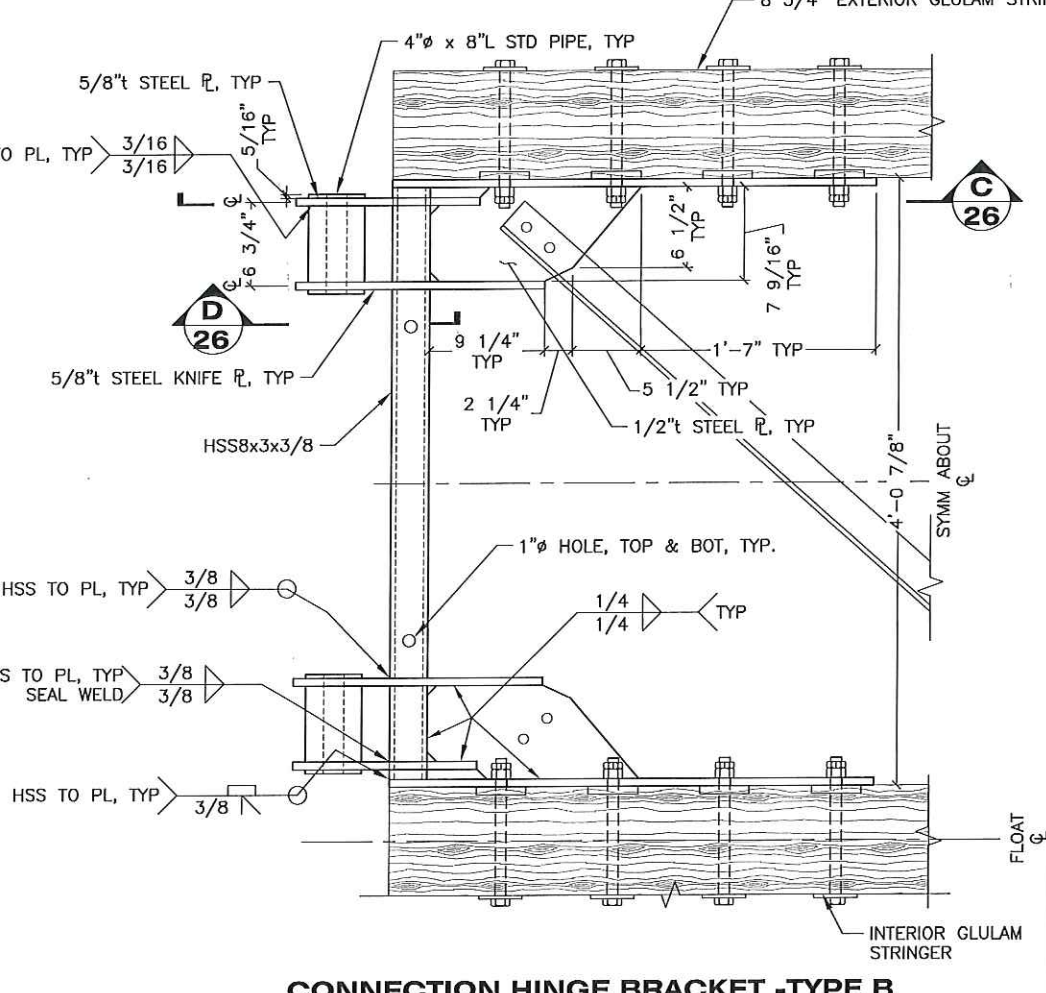
NOTE: RUBBOARDS NOT SHOWN FOR CLARITY.



FLOAT-TO-FLOAT CONNECTION
PLAN



CONNECTION HINGE BRACKET -TYPE C
PLAN
(TYPICAL MAINWALK FLOAT)



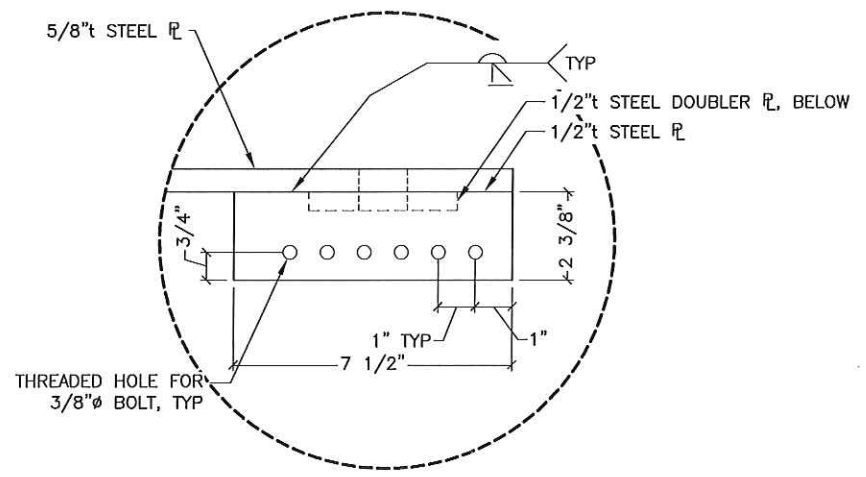
CONNECTION HINGE BRACKET -TYPE B
PLAN
(TYPICAL MAINWALK FLOAT)

- NOTES:
1. ALL PLATES ARE 5/8"t ASTM A36 STEEL, U.O.N.
 2. ALL DRILLED HOLES IN 1/2"t STEEL PL ARE 13/16"Ø, U.O.N.
 3. ALL WELDS ARE 1/4" FILLET WELDS, BOTH SIDES, SEAL WELD, U.O.N.
 4. 4"Ø SHEAR PLATES SHALL BE PROVIDED AT ALL WOOD-TO-STEEL PL INTERFACES OF HINGE CONNECTION.

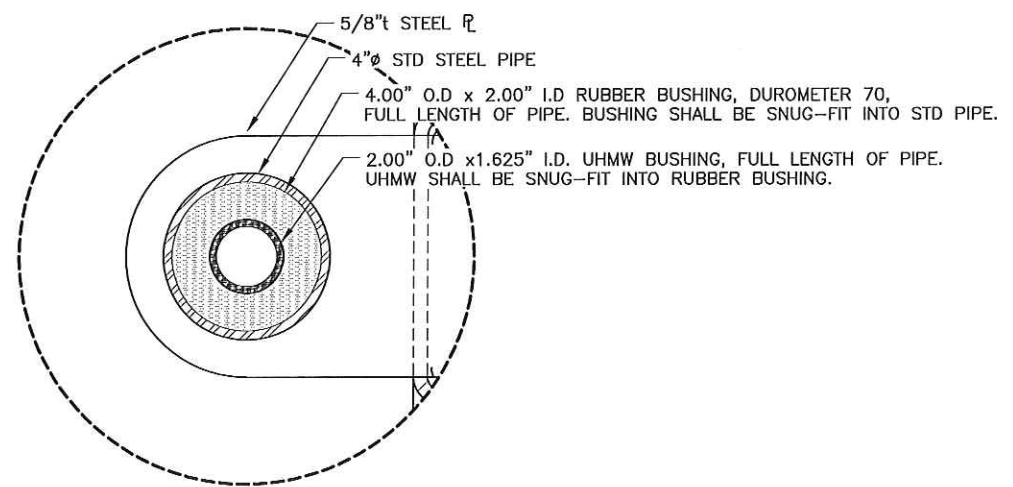
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE *Dawn Palu* Date 12/6/16

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
	CONNECTION HINGE DETAILS			
CHECKED BY: K. MILLER	PROJECT DESIGNATION			
DRAWN BY: STAFF	YEAR			
PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\25 - CONNECTION HINGE DETAILS.DWG	SHEET NO.			
TAB: 25 Wednesday, January 06, 2016 2:57:08 PM MISTY L. BUTLER	TOTAL SHEETS			
REVISIONS	68353	2016	25	41
NO.	DATE	DESCRIPTION		



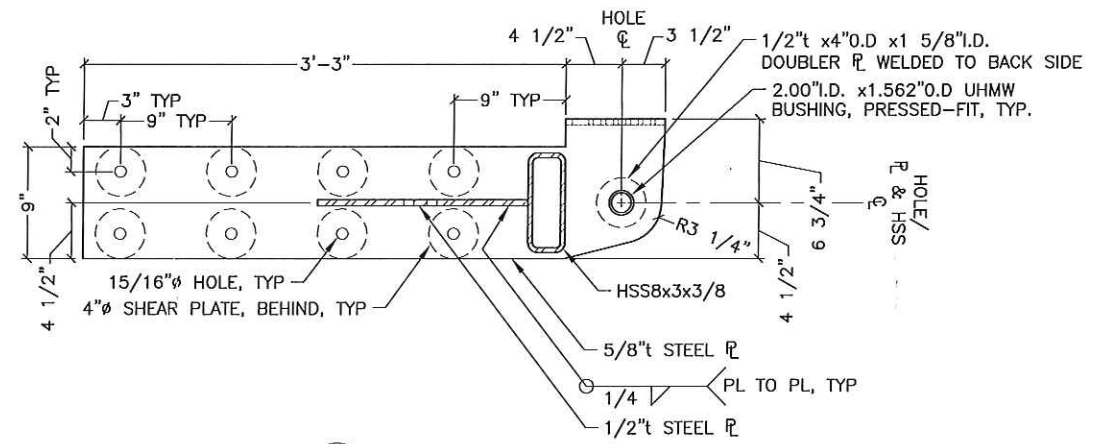
1 DETAIL
PLAN



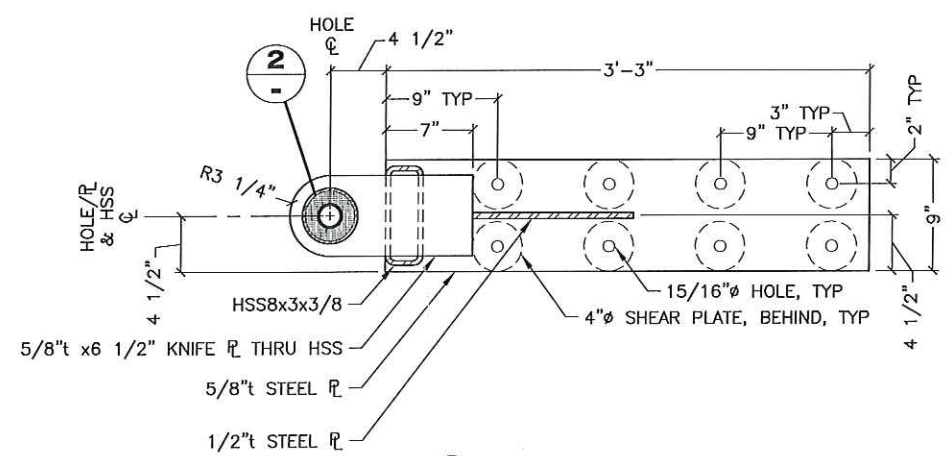
2 DETAIL
SIDE VIEW

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *Dan Phil* Date *12/6/16*

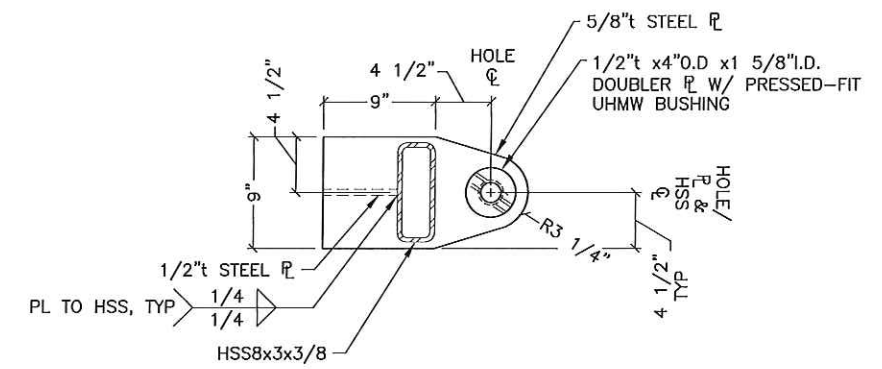


A DETAIL

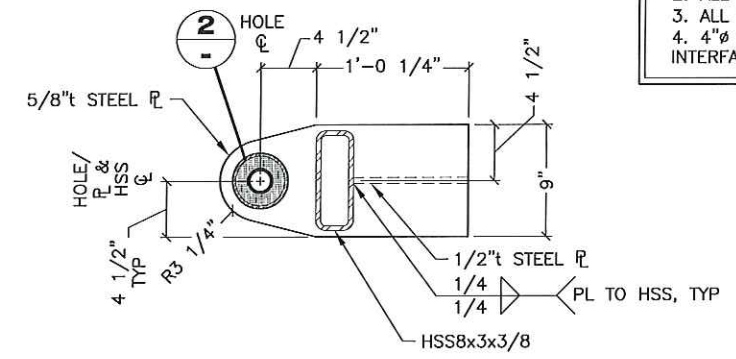


C DETAIL

NOTES:
 1. ALL PLATES ARE 5/8"t ASTM A36 STEEL, U.O.N.
 2. ALL DRILLED HOLES IN 1/2"t STEEL PL ARE 13/16"Ø, U.O.N.
 3. ALL WELDS ARE 1/4" FILLET WELDS, BOTH SIDES, SEAL WELD, U.O.N.
 4. 4"Ø SHEAR PLATES SHALL BE PROVIDED AT ALL WOOD-TO STEEL PL INTERFACES OF HINGE CONNECTION.




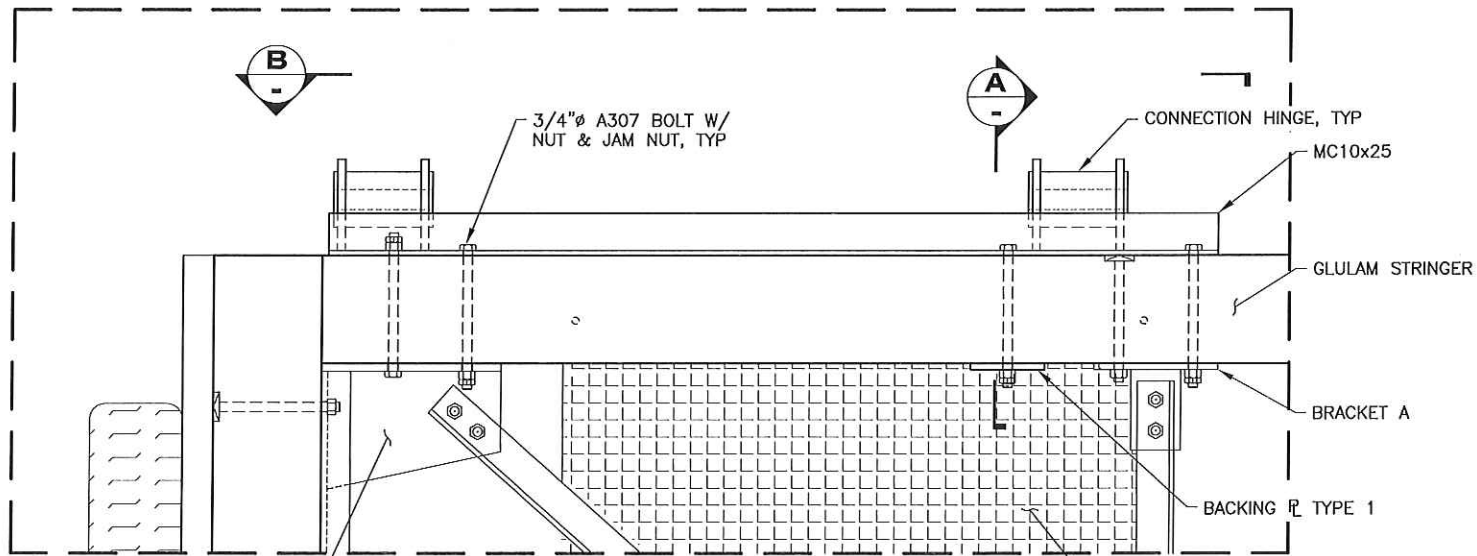
B DETAIL



D DETAIL

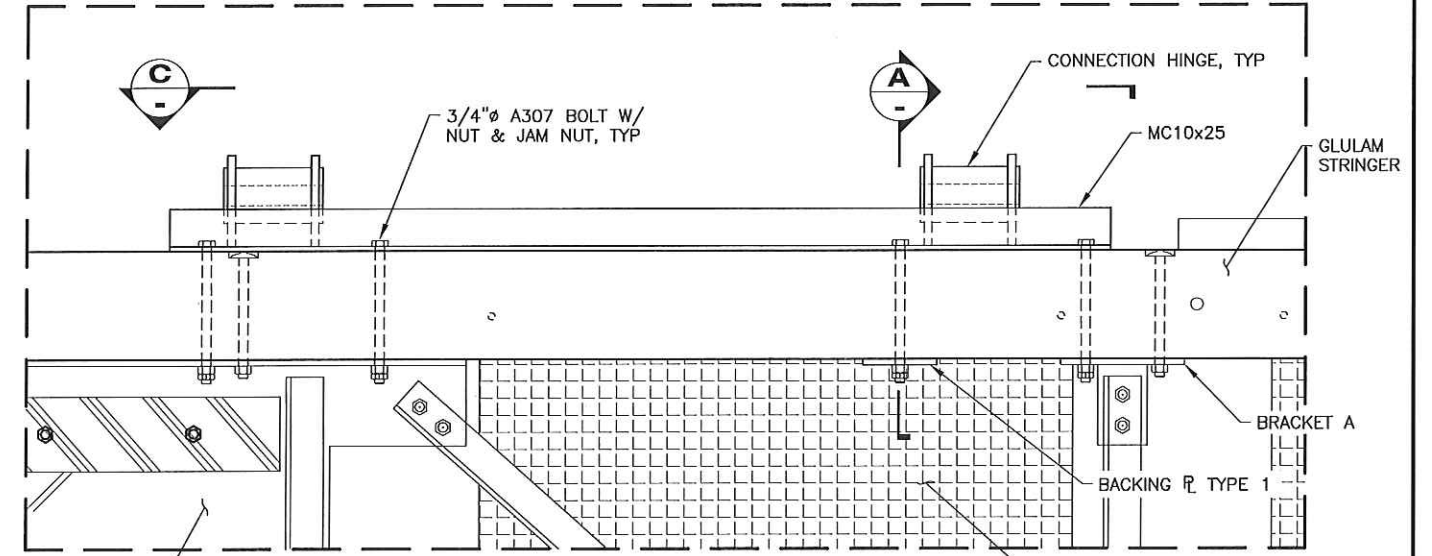
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION
CHECKED BY: K. MILLER	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353
DRAWN BY: STAFF	
	CONNECTION HINGE DETAILS
PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\26 - CONNECTION HINGE DETAILS.DWG TAB: 26 Wednesday, January 06, 2016 2:58:32 PM MISTY L. BUTLER	PROJECT DESIGNATION 68353
REVISIONS NO. DATE DESCRIPTION	YEAR 2016
	SHEET NO. 26
	TOTAL SHEETS 41



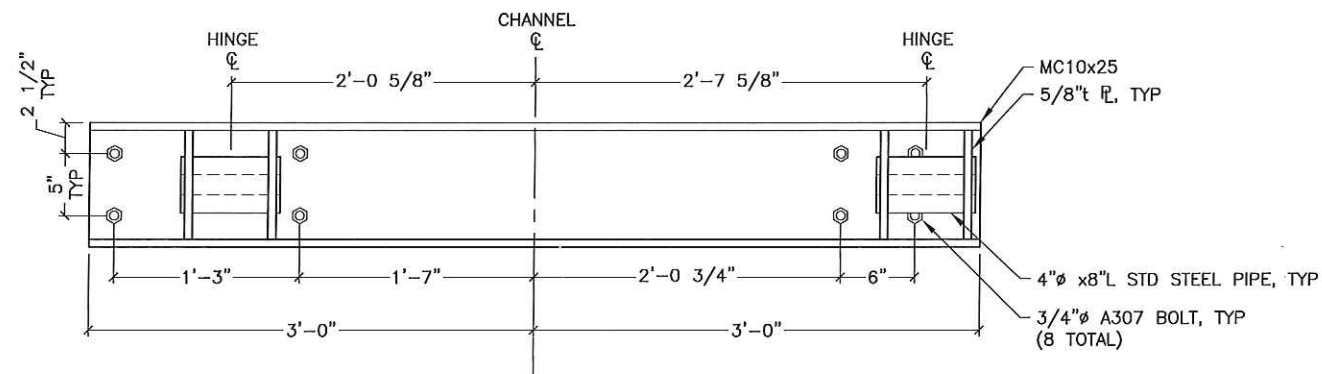
CONNECTION BRACKET TYPE W

1 CONNECTION HINGE TYPE D
(1 TOTAL) PLAN
(MAINWALK FLOAT- M1)

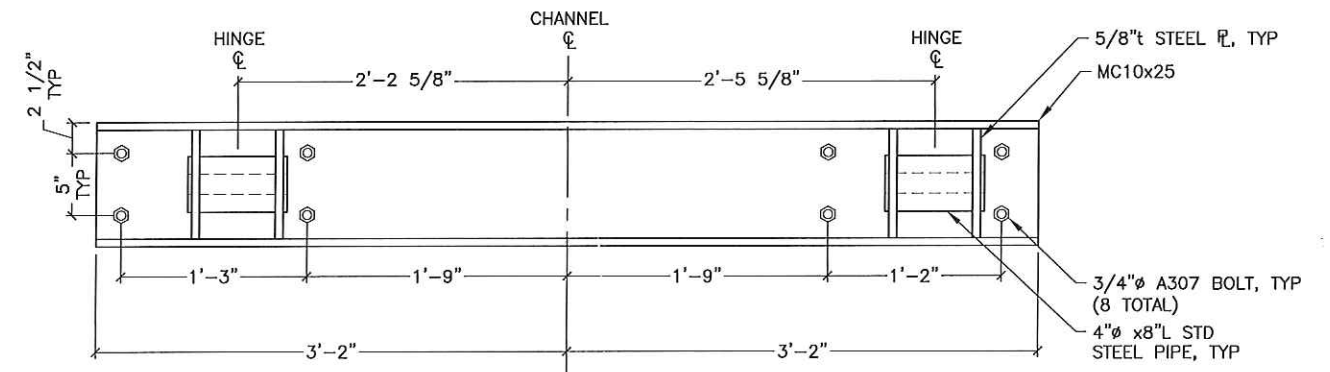


STEEL DIAPHRAGM

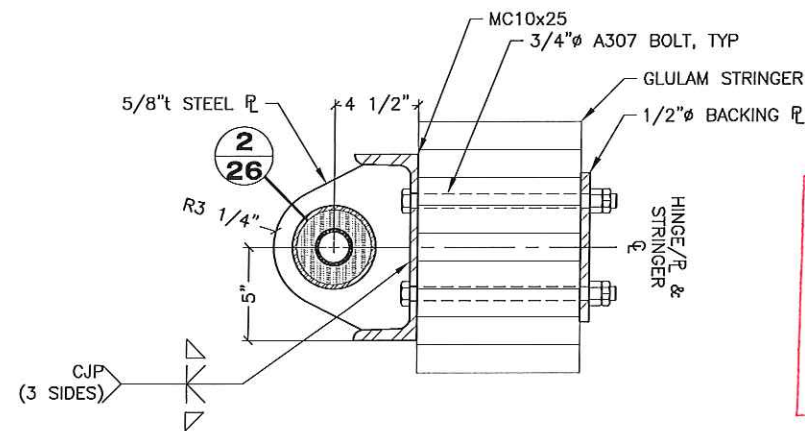
2 CONNECTION HINGE TYPE E
(1 TOTAL) PLAN
(MAINWALK FLOAT- M1)



B CONNECTION HINGE TYPE D
FRONT



C CONNECTION HINGE TYPE E
FRONT




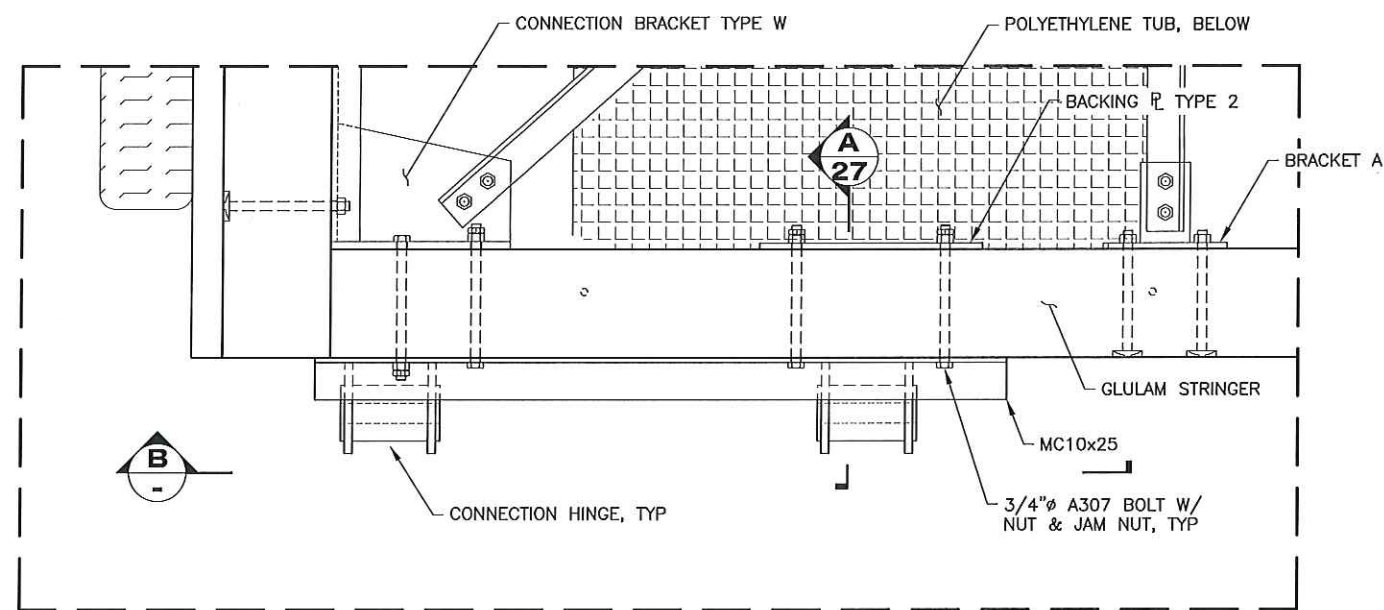
A TYPICAL SECTION

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

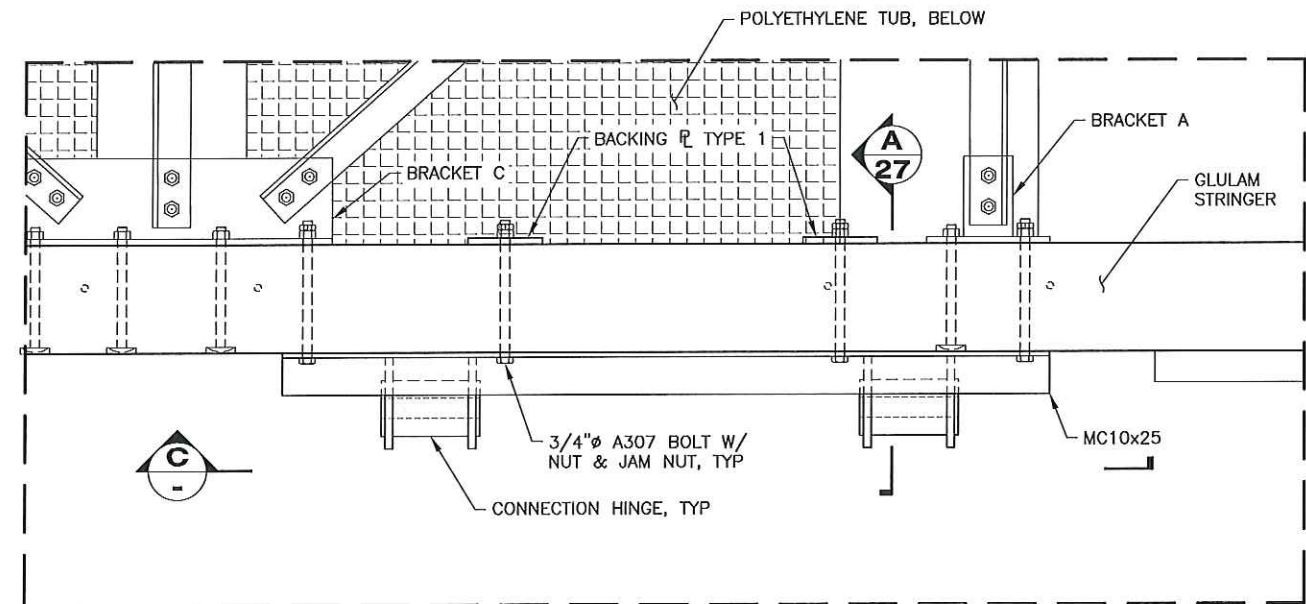
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE *David R. [Signature]* Date 12/16/14

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
		BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
		CONNECTION HINGE DETAILS			
CHECKED BY: K. MILLER		PROJECT DESIGNATION			
DRAWN BY: STAFF		YEAR			
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REVISIONS		PROJECT DESIGNATION			
NO.	DATE	DESCRIPTION	YEAR		
			SHEET NO.		
			TOTAL SHEETS		
			68353 2016 27 41		

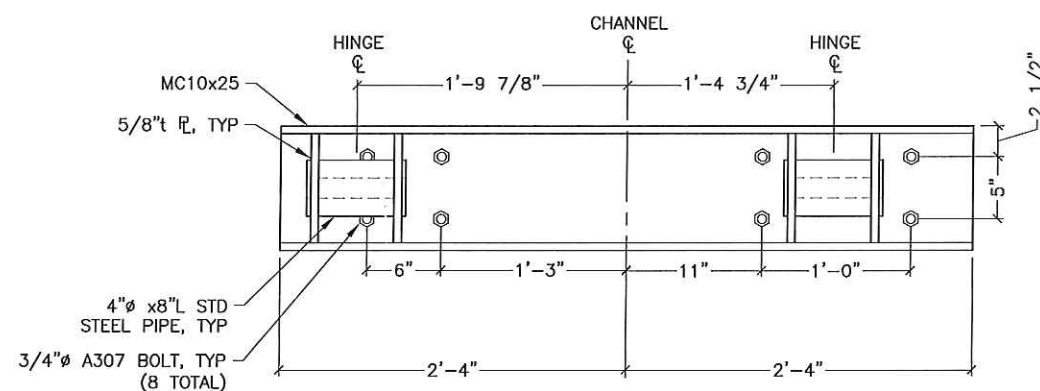


3 CONNECTION HINGE TYPE F
 (1 TOTAL) PLAN
 (MAINWALK FLOAT- M1)

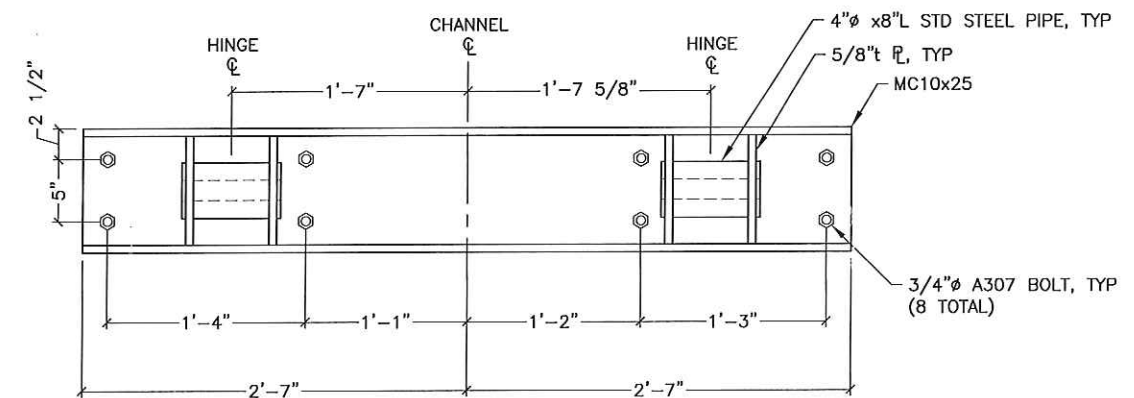


4 CONNECTION HINGE TYPE G
 (1 TOTAL) PLAN
 (MAINWALK FLOAT- M1)

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

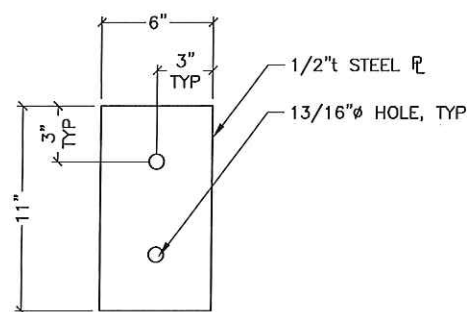


B CONNECTION HINGE TYPE F
 FRONT

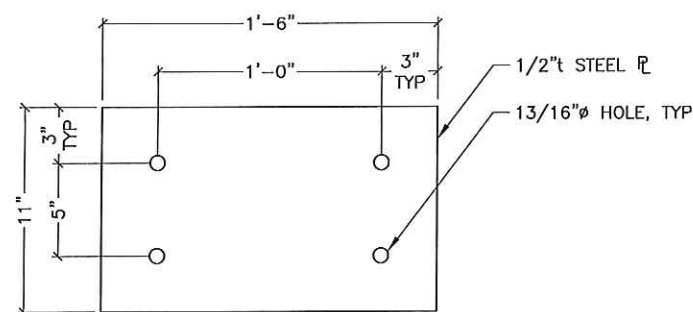


C CONNECTION HINGE TYPE G
 FRONT

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE Dan Re Date 12/6/16



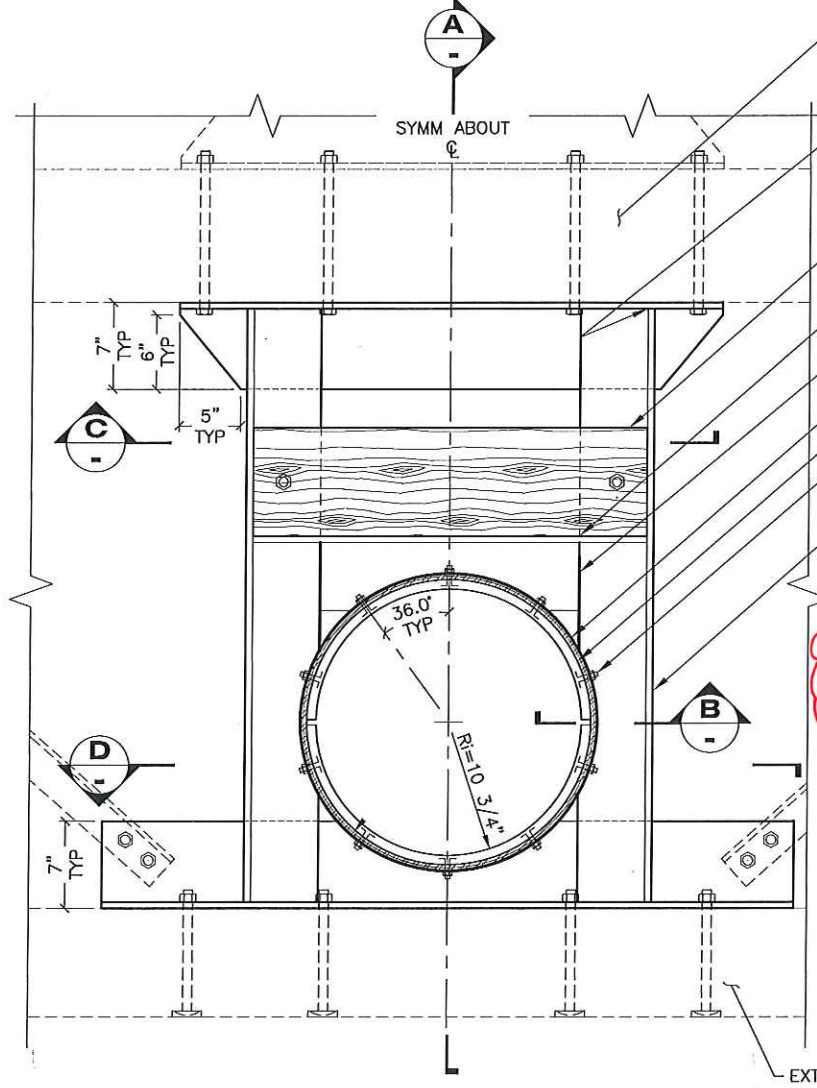
BACKING PLATE - TYPE 1



BACKING PLATE - TYPE 2

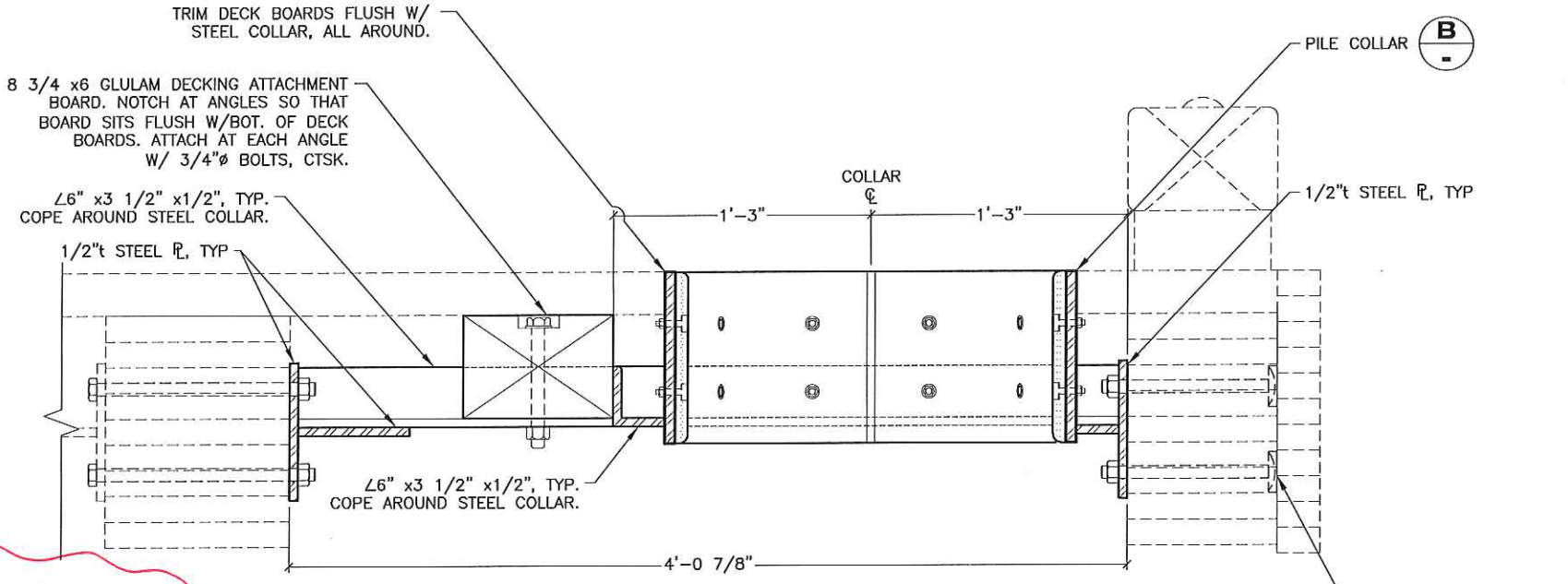
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
	CONNECTION HINGE DETAILS			
CHECKED BY: K. MILLER	PROJECT DESIGNATION			
DRAWN BY: STAFF	YEAR			
PATH: Q:\SIT\68353\MF\PLANSET\B. FINAL -JAN 2016\28 - CONNECTION HINGE DETAILS.DWG		SHEET NO.		TOTAL SHEETS
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REVISIONS				
NO.	DATE	DESCRIPTION		

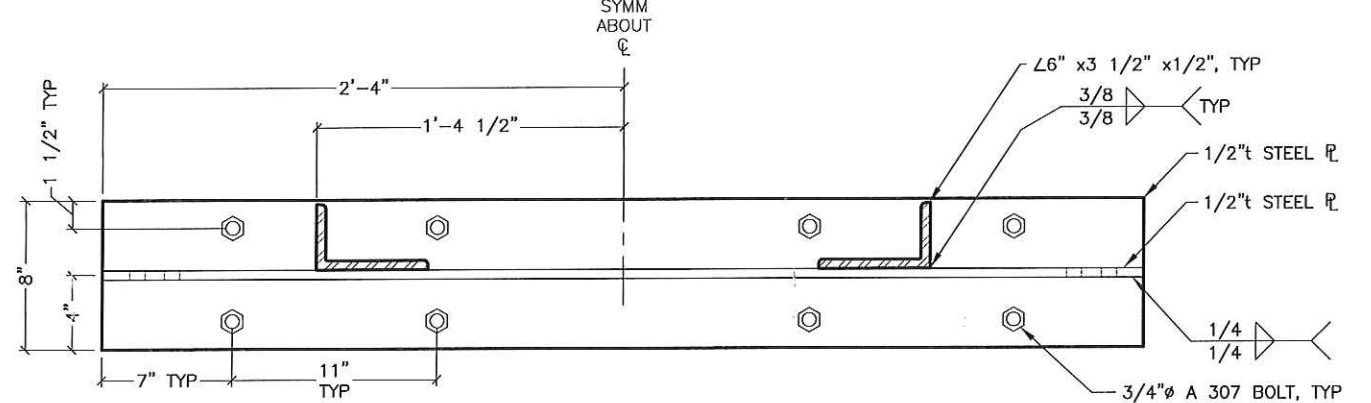


INTERNAL PILE COLLAR - TYPE 1
 PLAN
 (TYPICAL MAINWALK FLOAT)

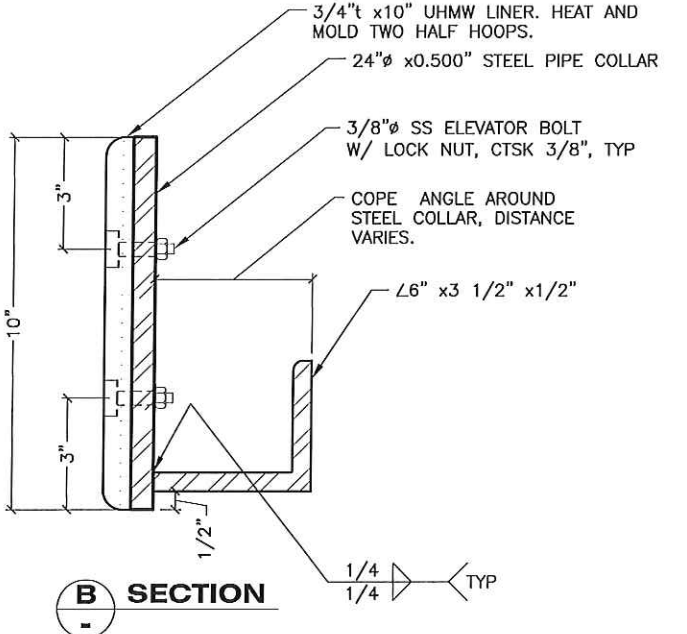
See sheet 43 for pile AZ hoop cover plate detail.



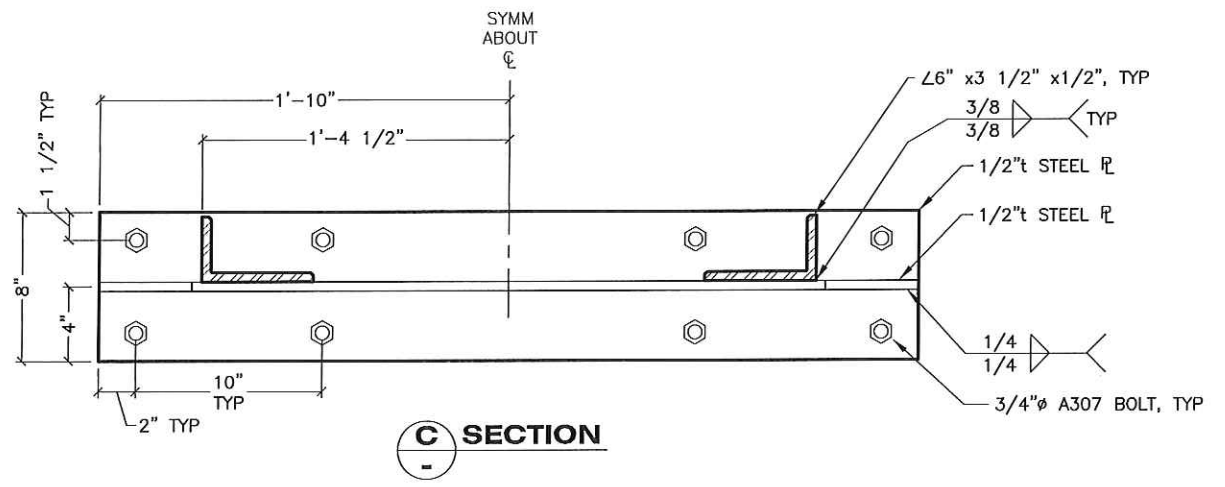
A SECTION



D SECTION



B SECTION

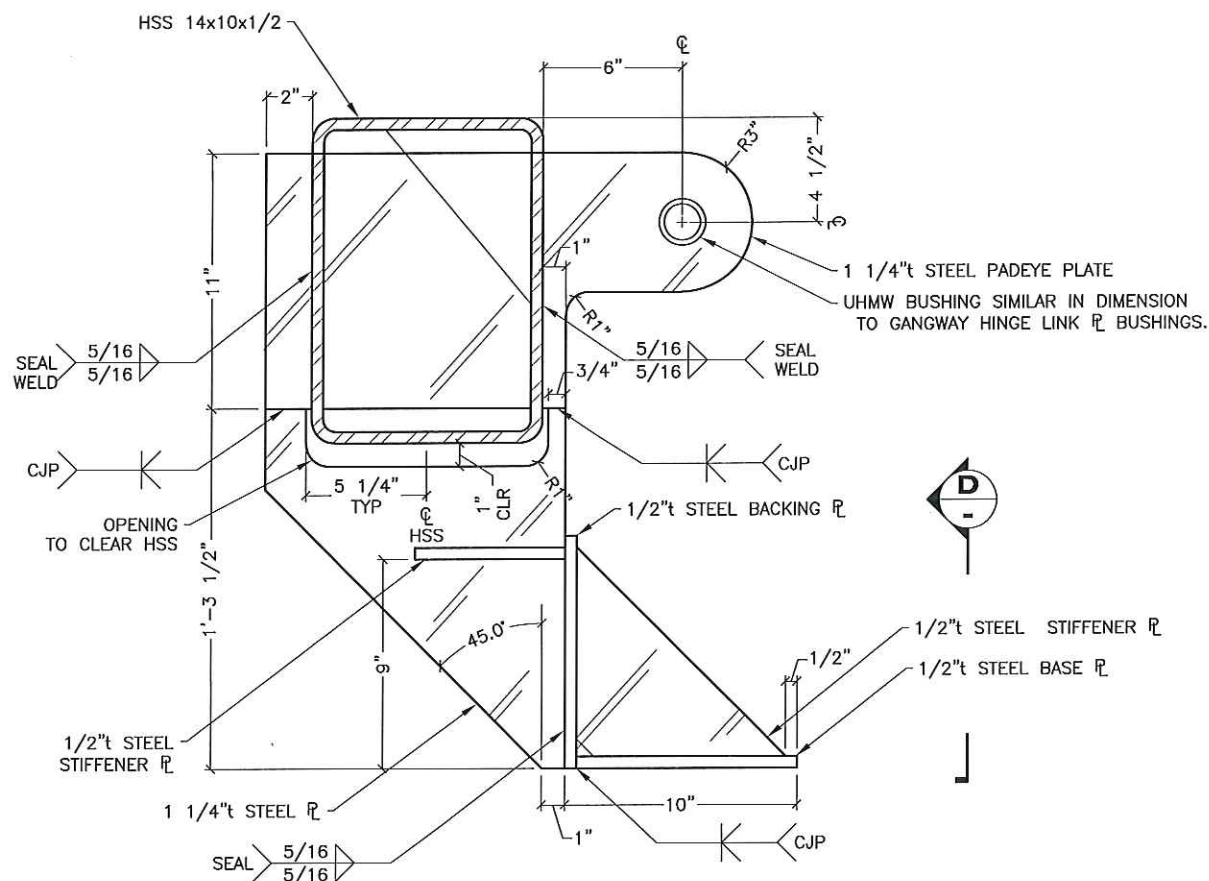


C SECTION

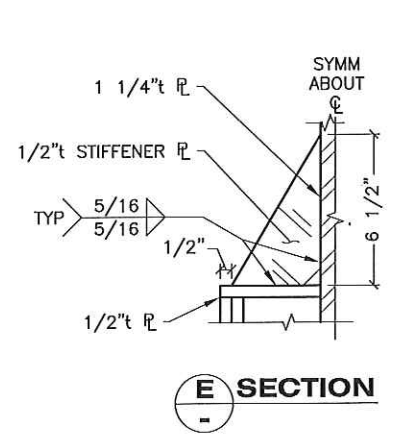
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE *Diane Palu* Date *12/6/16*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

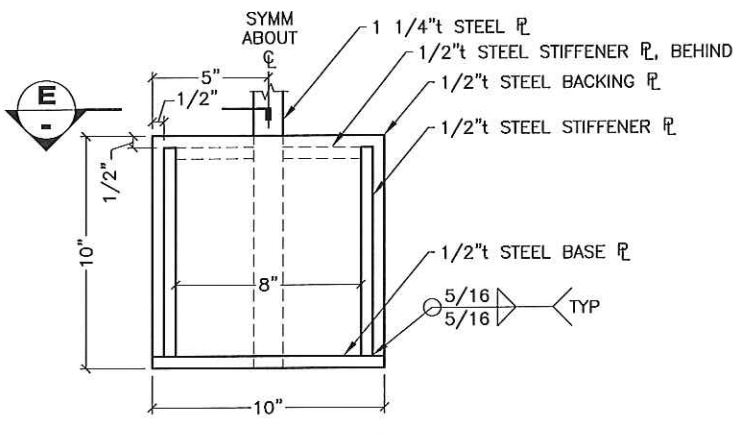
DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
	INTERNAL PILE COLLAR DETAILS			
CHECKED BY: K. MILLER	PROJECT DESIGNATION			
DRAWN BY: STAFF	YEAR			
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REVISIONS				
NO.	DATE	DESCRIPTION		



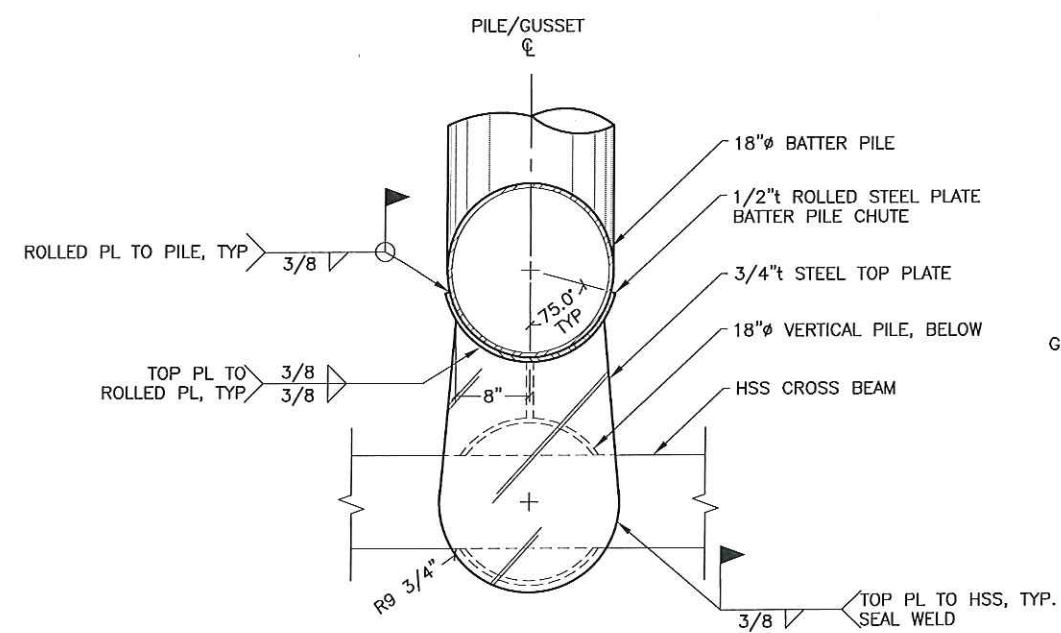
A GANGWAY MOUNTING PADEYE AND JACKING PLATE SECTION
(2 TOTAL)



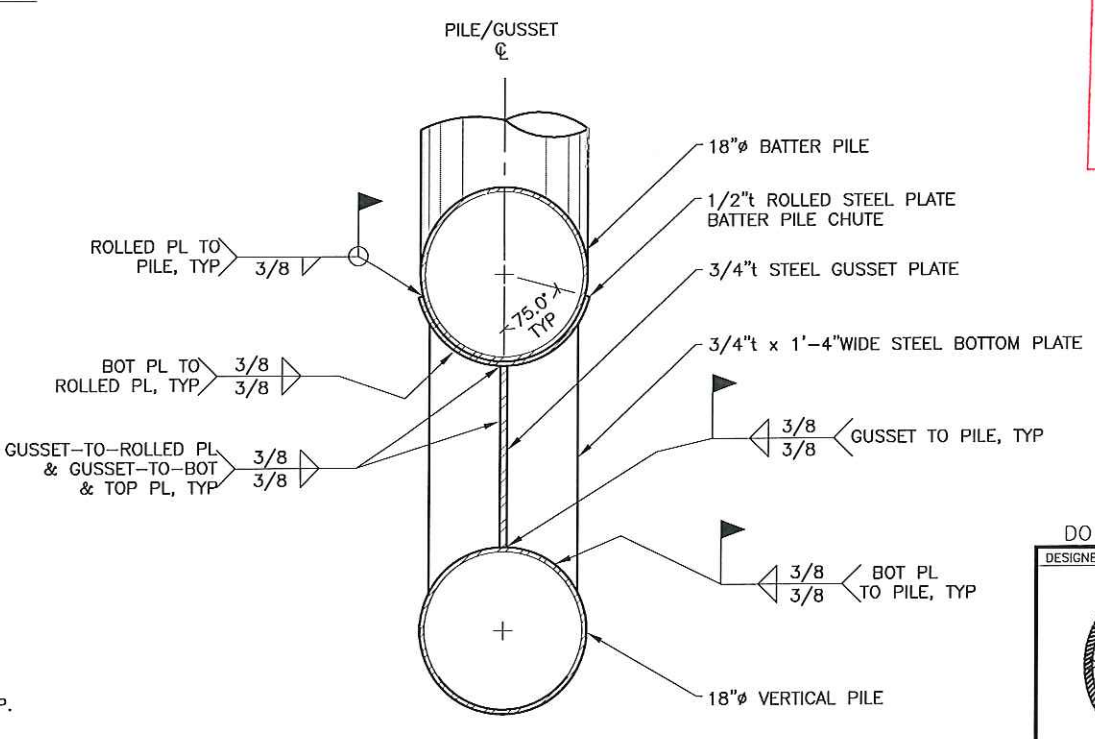
E SECTION



D JACKING PLATFORM FRONT ELEVATION



B SECTION

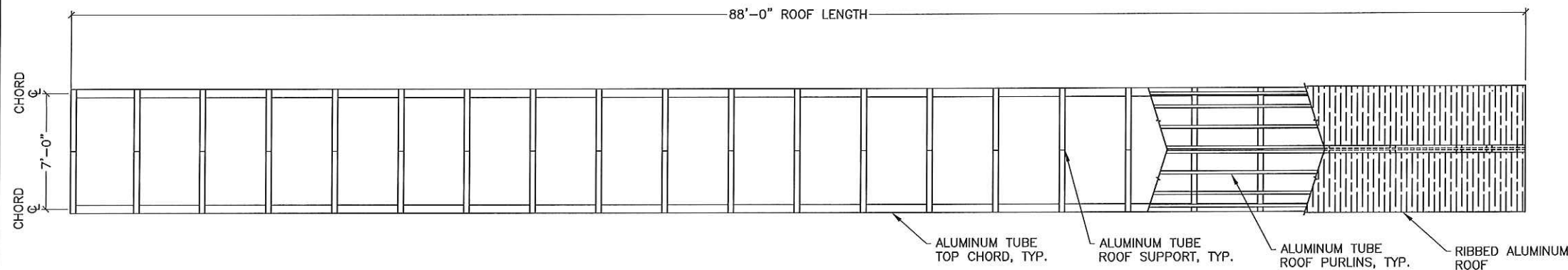


C SECTION

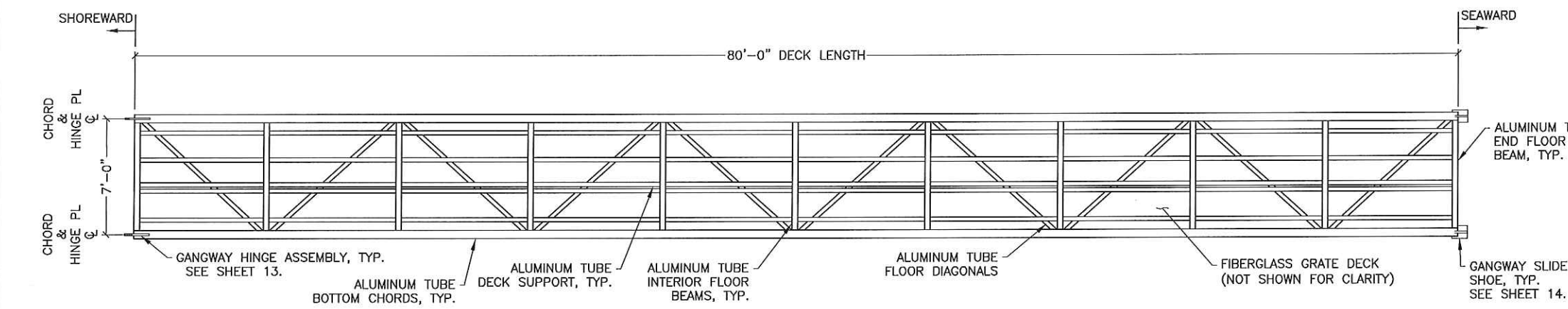
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE *Dane Palz* Date *12/6/14*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

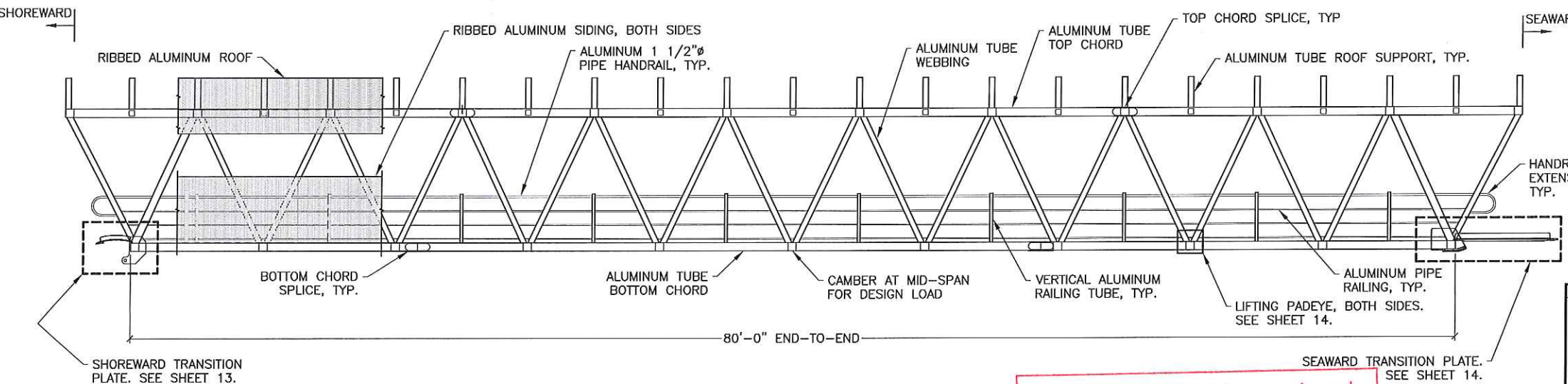
DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION					
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353					
	GANGWAY SUPPORT FRAME DETAILS					
CHECKED BY: K. MILLER	PATH: Q:\SIT\68353\MF\PLANSET\B.FINAL -JAN 2016\11 - GANGWAY SUPPORT FRAME DETAILS.DWG					
DRAWN BY: STAFF	TAB: 11 Wednesday, January 06, 2016 2:26:04 PM MISTY L. BUTLER					
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	
NO.	DATE	DESCRIPTION	68353	2016	11	41



ROOF FRAMING PLAN



FLOOR FRAMING PLAN



ELEVATION

GENERAL NOTES:
 ALL GANGWAY DETAILS ARE NOT SHOWN. FINAL DESIGN OF GANGWAY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION:
 1. PLANSET
 2. CALCULATIONS
 3. SHOP DRAWINGS
 SUPPORTING DOCUMENTATION AND STRUCTURAL CALCULATIONS SHALL BE PERFORMED BY A REGISTERED ENGINEER IN THE STATE OF ALASKA.

DESIGN CRITERIA:
 ALL DESIGN AND FABRICATION SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING CODES:

1. INTERNATIONAL BUILDING CODE, LATEST EDITION
2. ALUMINUM DESIGN MANUAL, LATEST EDITION
3. AASHTO GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, (LATEST EDITION)
4. AISC STEEL CONSTRUCTION MANUAL (LATEST EDITION)
5. AWS D1.1 & D1.2, STRUCTURAL WELDING CODE (LATEST EDITION)
6. APPLICABLE ASTM STANDARDS

MATERIALS:
 ALUMINUM - SHAPES ASTM 6061-T6, PLATES ASTM 5086-H112

HARDWARE - ALL BOLTS AND HARDWARE SHALL BE STAINLESS STEEL ASTM T316 ALLOY OR A325 GALV. STEEL AS INDICATED ON THE DRAWINGS.

RIBBED ALUMINUM ROOF AND SIDING - 4" BOX-RIBBED PAINTED ALUMINUM PANEL, 0.032" MINIMUM THICKNESS, SMOOTH FLAT SURFACE, 1" PANEL HEIGHT. EXTERIOR SIDE OF PANELS SHALL BE REGAL BLUE IN COLOR, AND INTERIOR SIDE OF PANELS SHALL HAVE A LIGHT GRAY, POLY-WASH BACK COAT. THE ALUMINUM PANELS SHALL HAVE A MINIMUM OF TWO COATS OF A FLUOROPOLYMER FINISH CONTAINING NOT LESS THAN 70 PERCENT PVDF RESIN BY WEIGHT. THE FINISH SHALL BE RESISTANT TO OUTDOOR ATMOSPHERIC CONDITIONS AND BE RESISTANT TO CRACKING, CHECKING, PEELING CHALKING AND FADE. FASTENERS SHALL BE PER MANUFACTURER'S RECOMMENDATION FOR EXTERIOR, WATER-TIGHT USE. WHERE DISSIMILAR METALS CONTACT EACH OTHER, PROTECT AGAINST GALVANIC ACTION AS RECOMMENDED BY THE MANUFACTURER. FLASHING AND TRIM SHALL BE FORMED FROM THE SAME MATERIAL AS THE METAL PANELS, AND PLACED AS REQUIRED TO SEAL AGAINST WEATHER AND TO PROVIDE A FINISHED APPEARANCE. FINISH FLASHING AND TRIM WITH THE SAME FINISH SYSTEM AS THE ADJACENT METAL PANELS. EXPOSED FASTENER HEADS SHALL MATCH THE COLOR OF THE METAL PANELS.

DECK GRATING - 1" TALL PULTRUDED FIBERGLASS GRATE SHALL BE INSTALLED ACROSS THE FULL WIDTH OF THE GANGWAY AS NOTED ON THE DRAWINGS. GRATE SHALL BE ADA COMPLIANT, W/HEAVY NON-SKID GRIT, DARK GRAY IN COLOR. ATTACH GRATE TO DECK SUPPORT MEMBERS W/ SS CLIPS, BOLTS & LOCKING NUTS, TYP. GRATING MANUFACTURER SHALL HAVE A QUALITY CONTROL PLAN IN PLACE THAT CAN BE REVIEWED AT THE ENGINEERS REQUEST.

TRANSITION PLATES - TRANSITION PLATES SHALL BE FULL SIZE ALUMINUM SHEET STOCK WITH A METALIZED NON-SKID FINISH PER SPECIFICATIONS.

UHMW - ULTRA HIGH MOLECULAR WEIGHT PLASTIC SHALL BE MADE FROM MATERIALS CONFORMING TO ASTM 4020. MATERIAL SHALL BE CHEMICALLY CROSS LINKED, ULTRA-VIOLET LIGHT STABILIZED, AND SUITABLE FOR LONG TERM EXPOSURE. UHMW SKID SHOE SHALL BE BLACK. UHMW NOSING SHALL BE YELLOW.

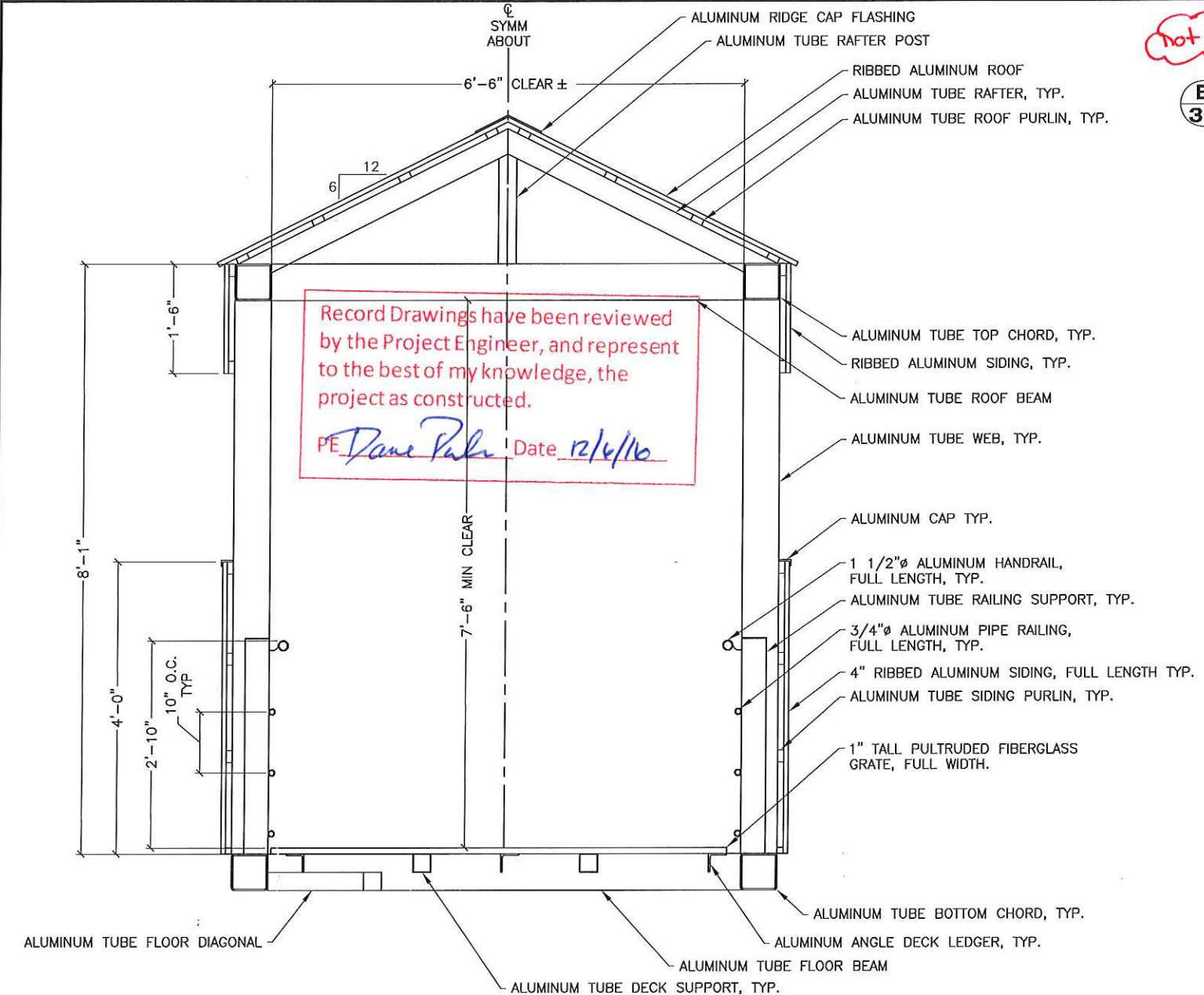
LOADS:
 DEAD LOADS - ALL
 LIVE LOADS - UNIFORM 85 PSF, OR CONCENTRATED 1,000 LBS FOR CRITICAL LOADING
 WIND LOAD - 120 MPH, EXPOSURE D (3 SEC GUST)
 GROUND SNOW LOAD, pg - 295 PSF
 VEHICLE - ATV (POLARIS RANGER 6x6 W/ 100 LB PAYLOAD)
 INCLUDE A MINIMUM TO LOAD COMBINATIONS:
 1. STOWED LOADS
 2. ERECTION LOADS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

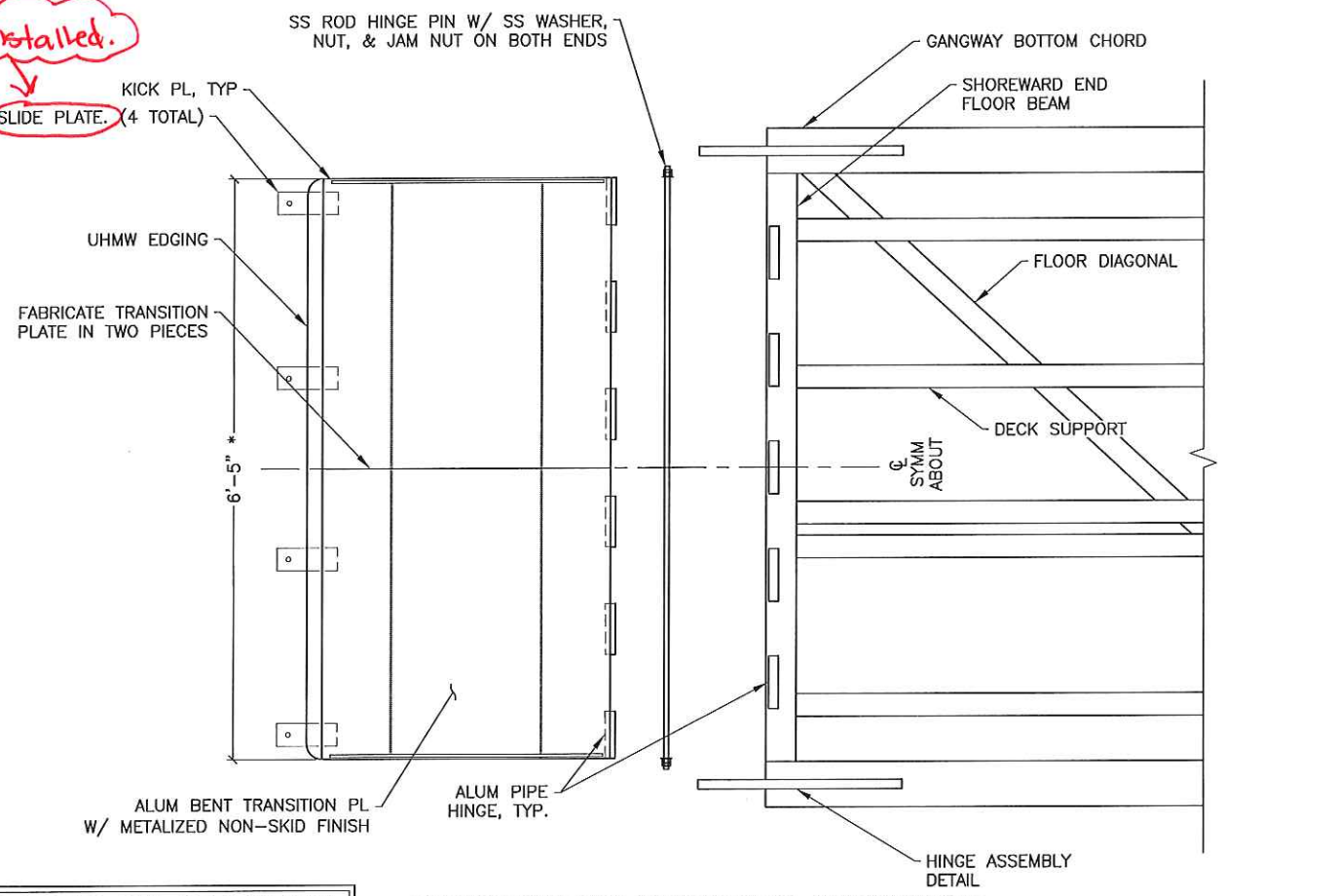
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE *Dan Paler* Date *12/16/16*

DESIGNED BY: M. BUTLER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION		
		BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353		
CHECKED BY: K. MILLER		GANGWAY PLAN & ELEVATION		
DRAWN BY: STAFF		PROJECT DESIGNATION		
PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\12 - GANGWAY PLAN & ELEVATION.DWG		YEAR		
TAB: 12 Wednesday, January 06, 2016 2:26:15 PM MISTY L. BUTLER		SHEET NO.		
REVISIONS		TOTAL SHEETS		
NO.	DATE	DESCRIPTION	68353	2016
			12	41

not installed.
 B 38
 SLIDE PLATE. (4 TOTAL)

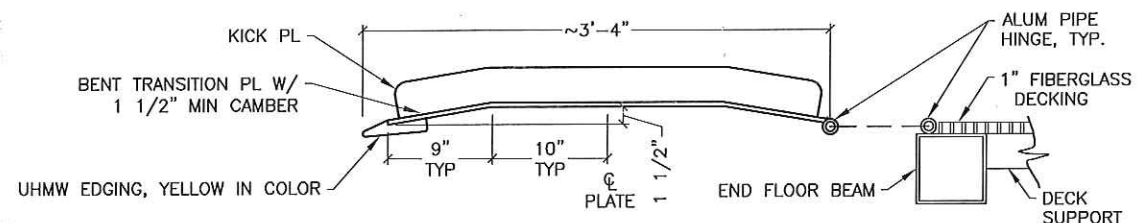


Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE *Dane Pahr* Date *12/6/16*

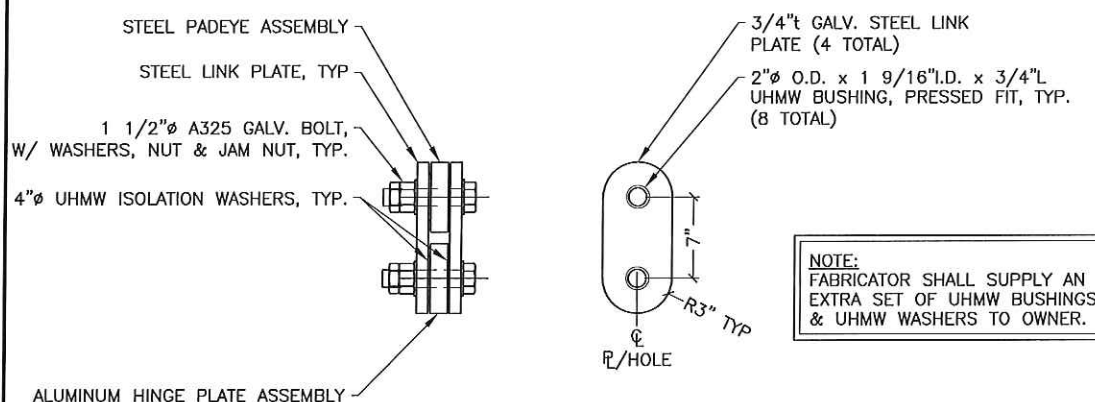


*CONTRACTOR SHALL VERIFY DIMENSION W/ FINAL GANGWAY DIMENSIONS TO ENSURE PROPER FIT-UP

GANGWAY TRANSITION PL ASSEMBLY
 PLAN (SHOREWARD END)

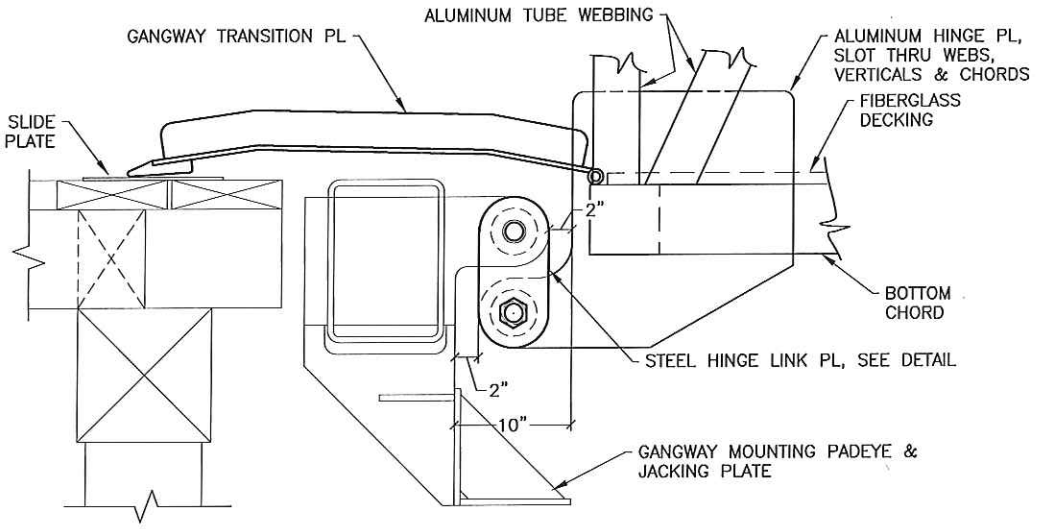


GANGWAY TRANSITION PL ASSEMBLY
 SECTION (SHOREWARD END)



NOTE: FABRICATOR SHALL SUPPLY AN EXTRA SET OF UHMW BUSHINGS & UHMW WASHERS TO OWNER.

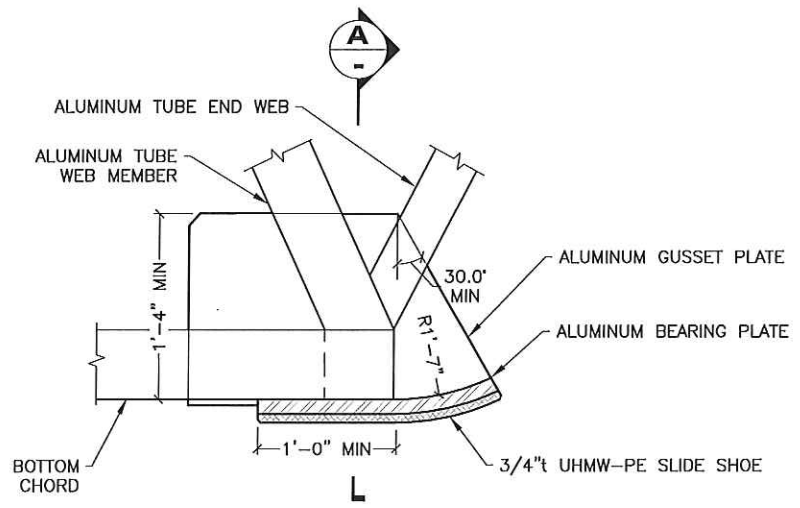
GANGWAY HINGE LINK PLATE
 DETAILS



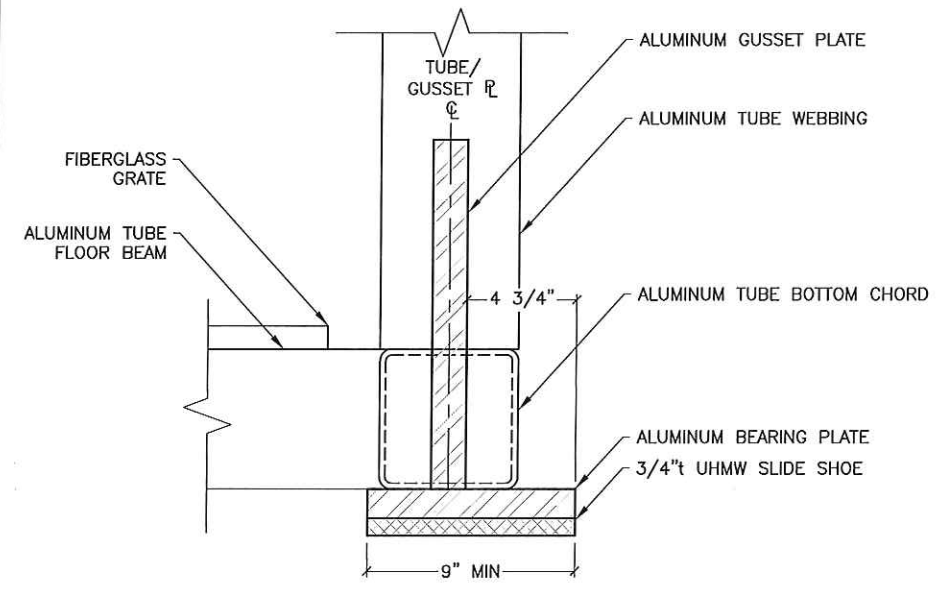
GANGWAY HINGE ASSEMBLY
 ELEVATION

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

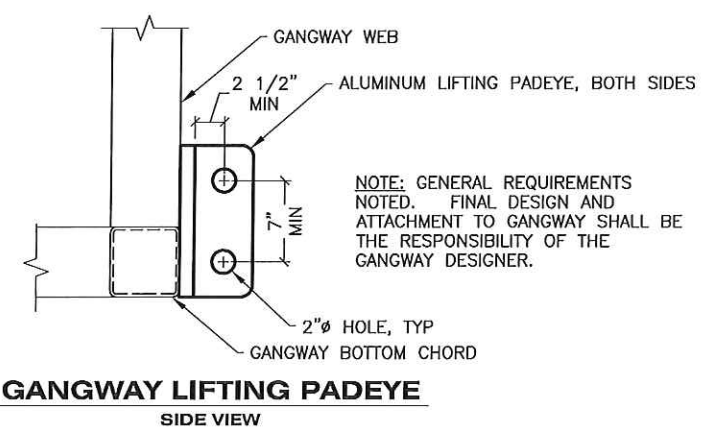
DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOAST REGION					
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353					
	GANGWAY TYPICAL SECTION & DETAILS					
CHECKED BY: K. MILLER	PATH: Q:\SIT\68353\MF\PLANSET\B_FINAL -JAN 2016\13 - GANGWAY SECTION & DETAILS.DWG					
DRAWN BY: STAFF	TAB: 13 Wednesday, January 06, 2016 2:26:25 PM MISTY L. BUTLER					
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	
NO.	DATE	DESCRIPTION	68353	2016	13	41



GANGWAY SLIDE SHOE ASSEMBLY
ELEVATION

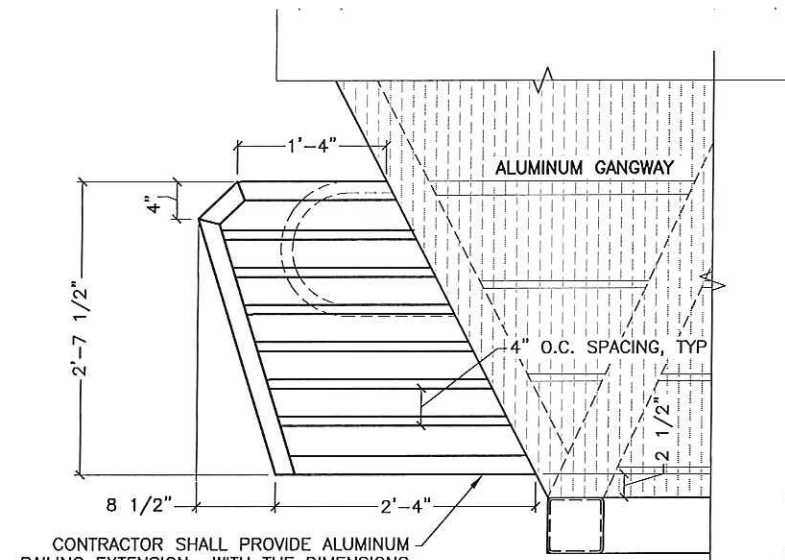


A GANGWAY SLIDE SHOE ASSEMBLY
SECTION



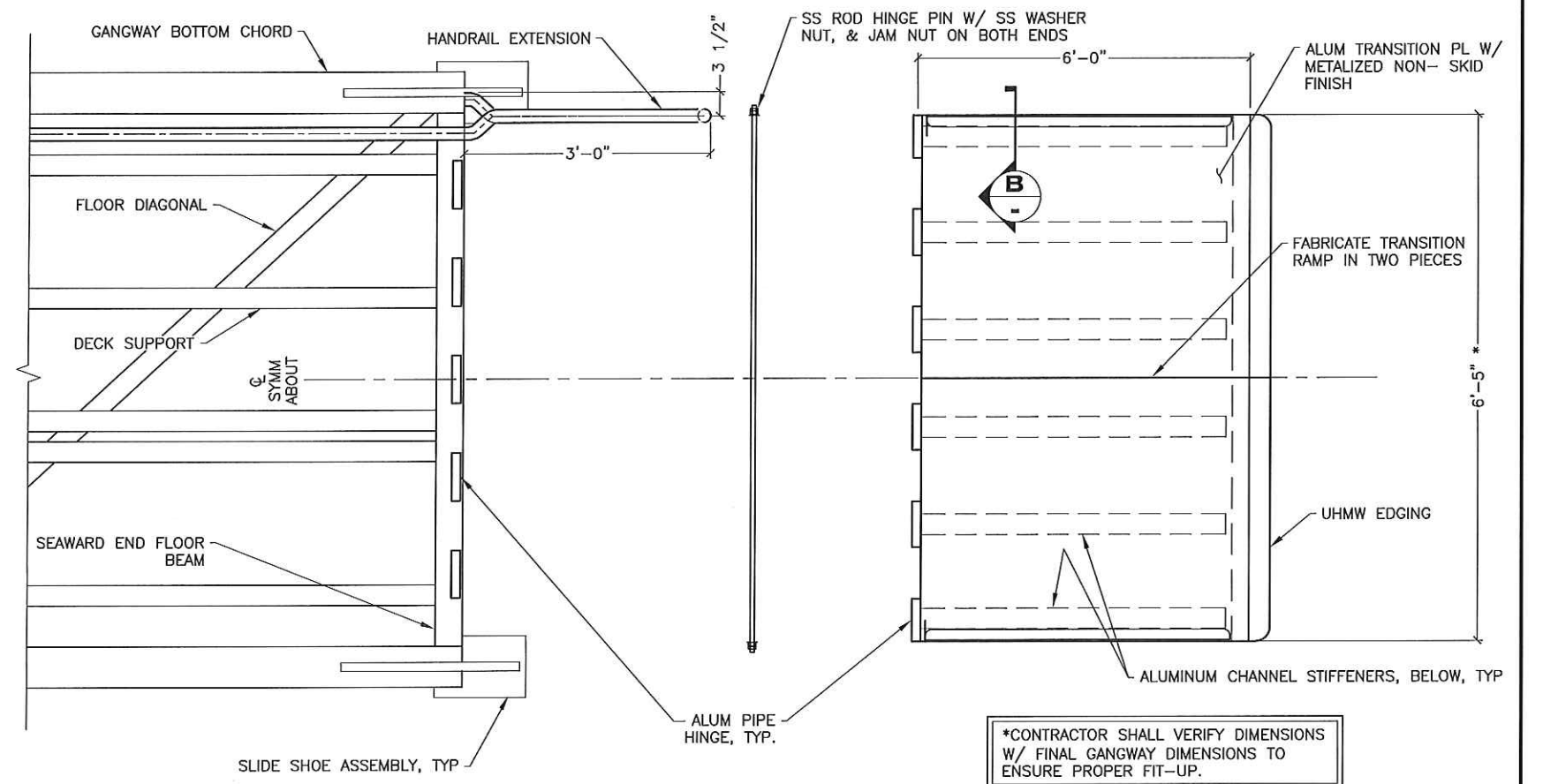
GANGWAY LIFTING PADEYE
SIDE VIEW

NOTE: GENERAL REQUIREMENTS NOTED. FINAL DESIGN AND ATTACHMENT TO GANGWAY SHALL BE THE RESPONSIBILITY OF THE GANGWAY DESIGNER.



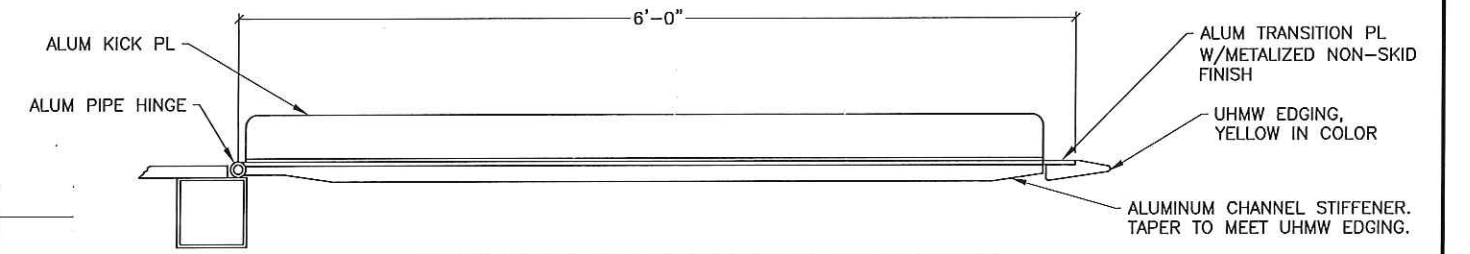
RAILING EXTENSION DETAIL
ELEVATION

CONTRACTOR SHALL PROVIDE ALUMINUM RAILING EXTENSION WITH THE DIMENSIONS SHOWN TO SPAN GAP BETWEEN EXISTING TIMBER RAILING AND NEW GANGWAY. (BOTH SIDES OF GANGWAY)

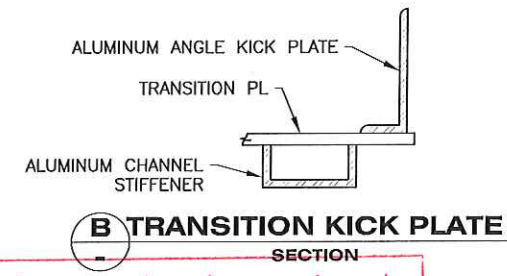


GANGWAY TRANSITION PL ASSEMBLY
PLAN
(SEAWARD END)

*CONTRACTOR SHALL VERIFY DIMENSIONS W/ FINAL GANGWAY DIMENSIONS TO ENSURE PROPER FIT-UP.



GANGWAY TRANSITION PL ASSEMBLY
SECTION
(SEAWARD END)



B TRANSITION KICK PLATE
SECTION

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *Dave Peltz* Date *12/6/16*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOST REGION

BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353

GANGWAY DETAILS

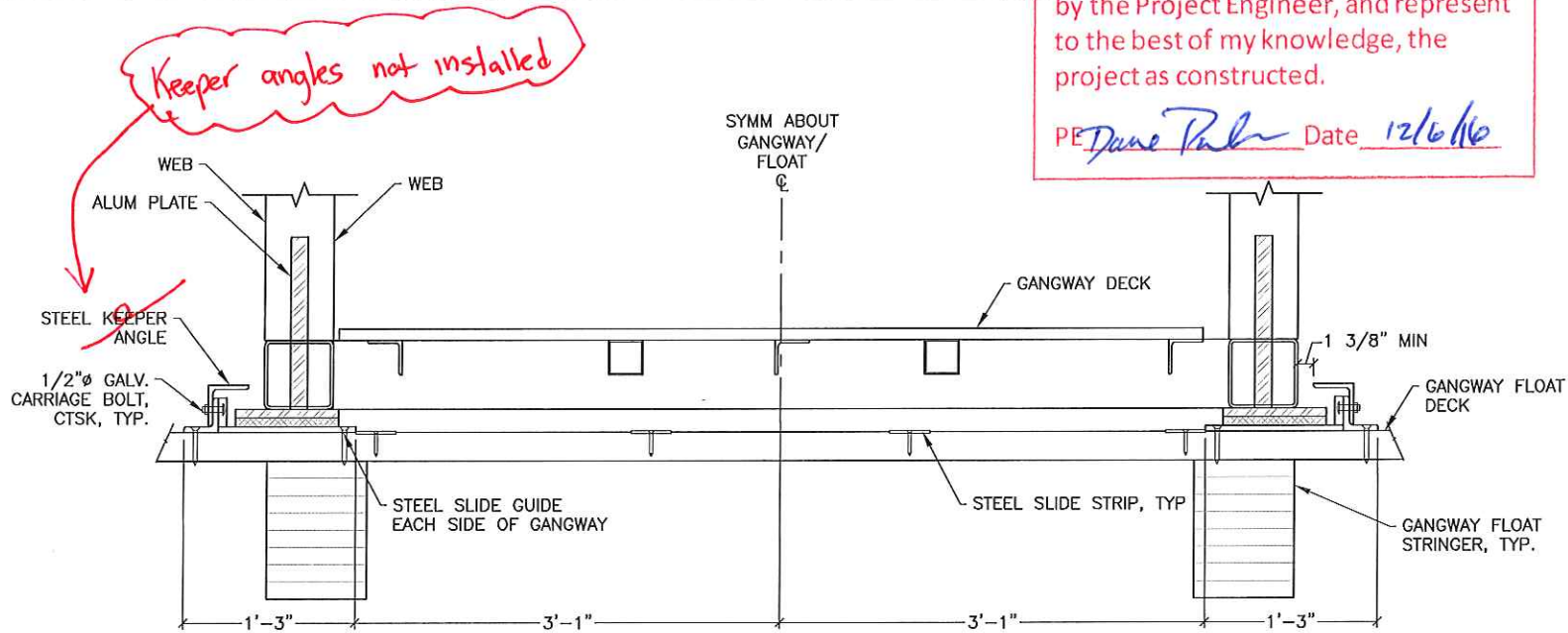
CHECKED BY: K. MILLER
DRAWN BY: STAFF

PATH: Q:\SIT\68353\MF\PLANSET\B. FINAL -JAN 2016\14 - GANGWAY DETAILS.DWG
TAB: 14 Wednesday, January 06, 2016 2:27:53 PM MISTY L. BUTLER

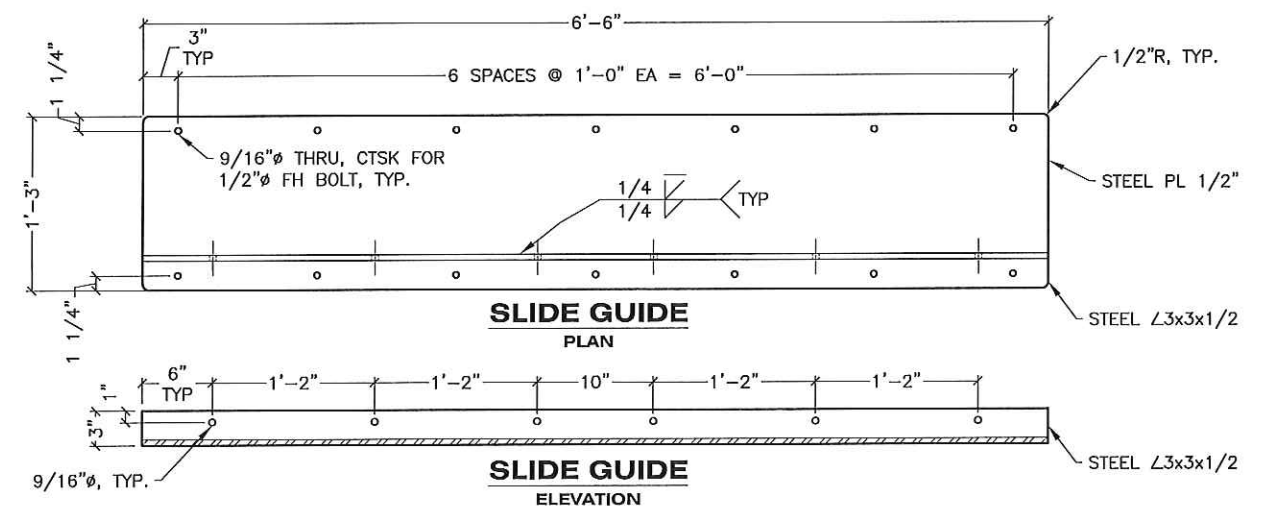
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			68353	2016	14	41

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE Dane Palu Date 12/6/16

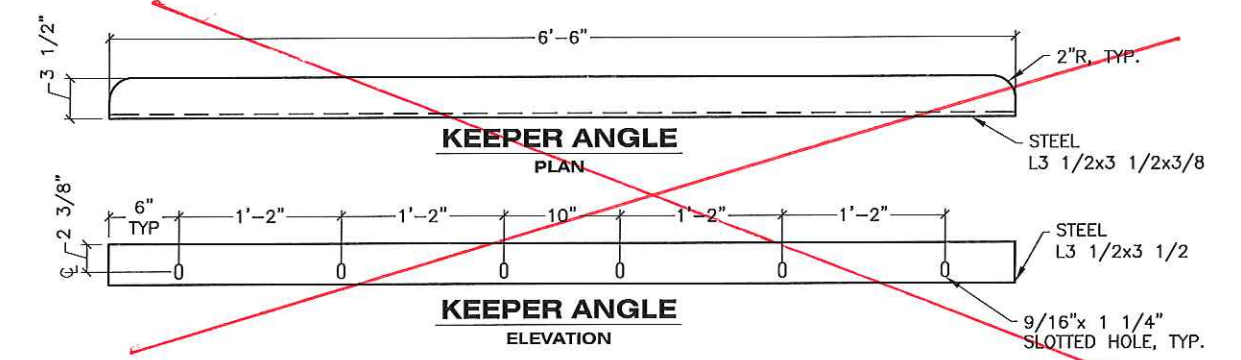


GANGWAY SLIDE ASSEMBLY
FRONT ELEVATION



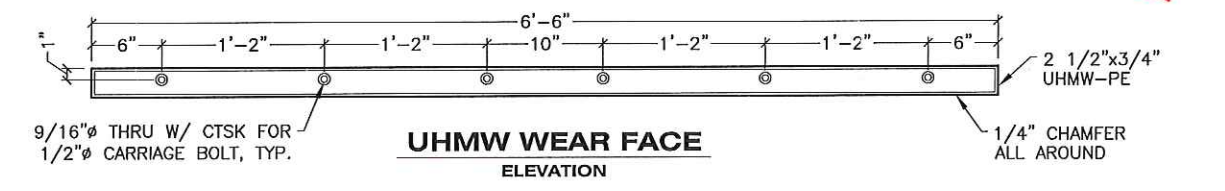
SLIDE GUIDE
PLAN

SLIDE GUIDE
ELEVATION



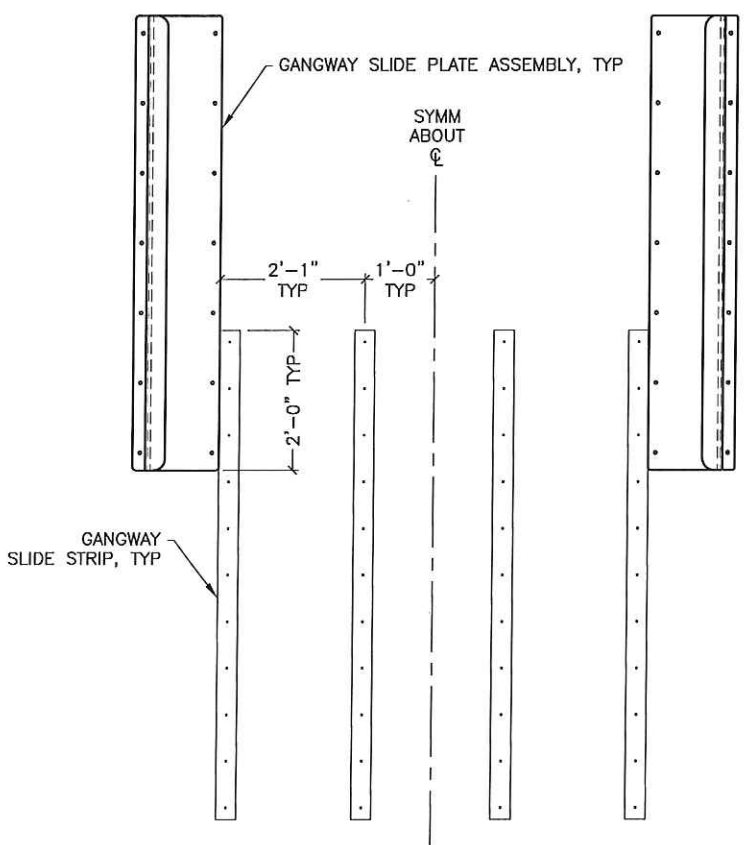
KEEPER ANGLE
PLAN

KEEPER ANGLE
ELEVATION

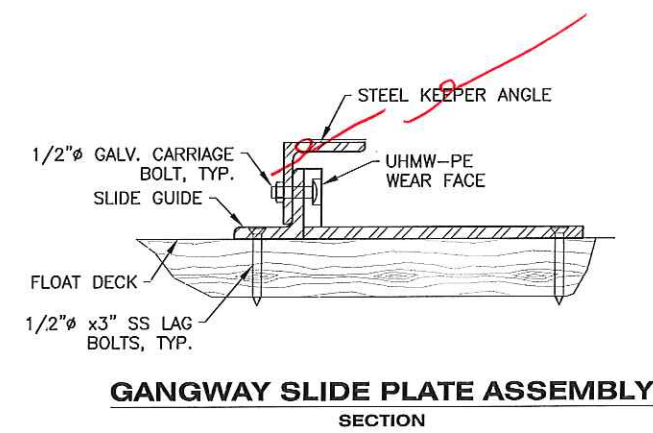


UHMW WEAR FACE
ELEVATION

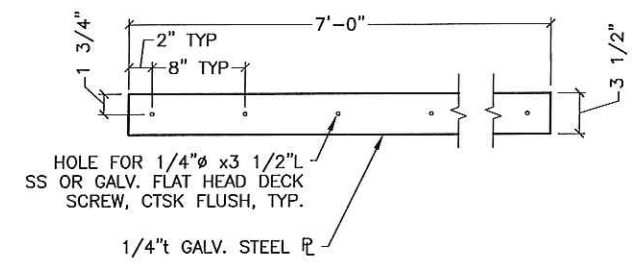
SLIDE ASSEMBLY DETAILS



GANGWAY SLIDE ASSEMBLY
PLAN




GANGWAY SLIDE PLATE ASSEMBLY
SECTION

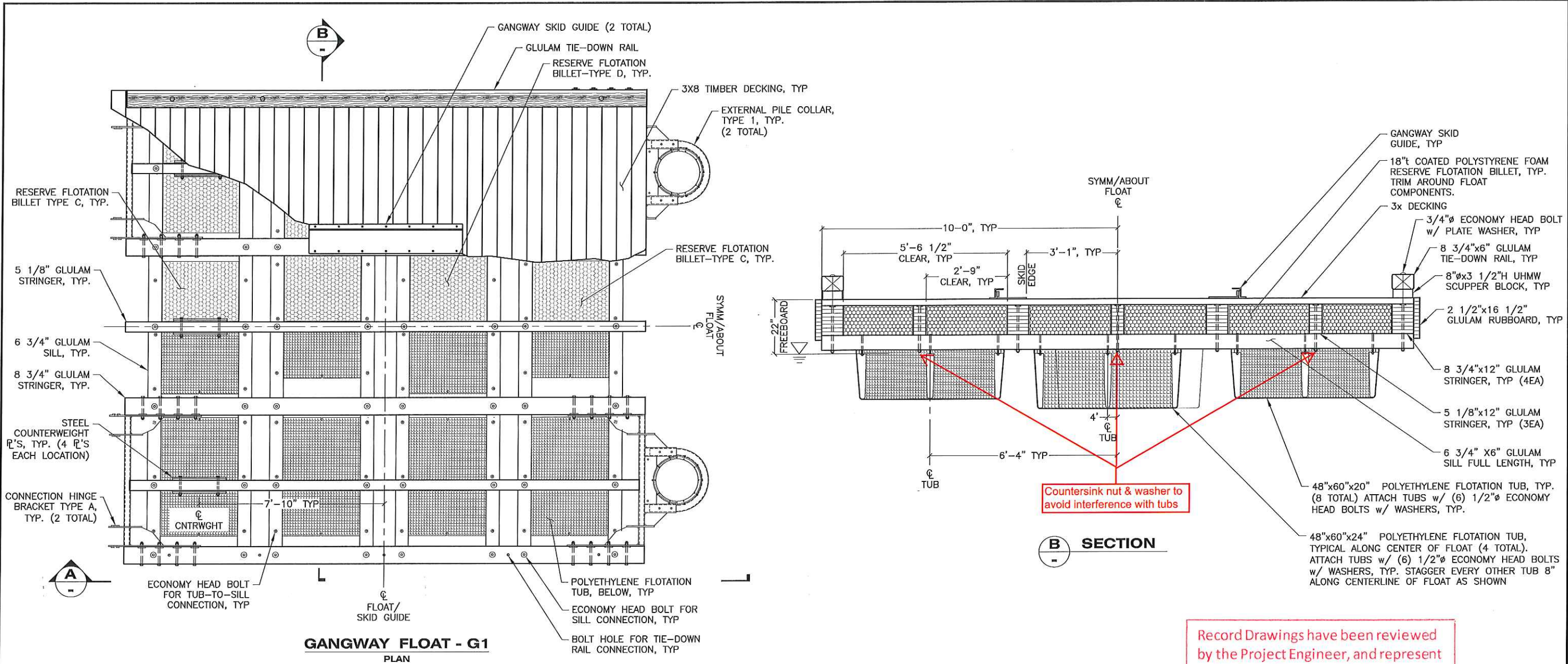


GANGWAY SLIDE STRIP
(4 TOTAL) PLAN

NOTE: STEEL SLIDE PLATE SHALL BE CTSK INTO TIMBER DECKING 1/8\".

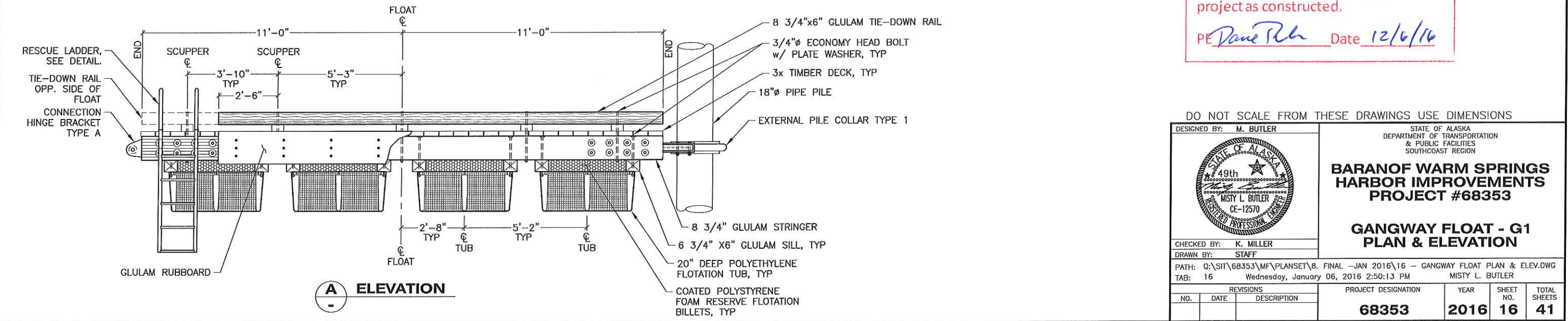
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION	
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353	
	GANGWAY DETAILS	
CHECKED BY: K. MILLER	PROJECT DESIGNATION	YEAR
DRAWN BY: STAFF	68353	2016
PATH: Q:\SIT\68353\MF\PLANSET\B.FINAL --JAN 2016\15 - GANGWAY DETAILS.DWG TAB: 15 Wednesday, January 06, 2016 2:28:08 PM MISTY L. BUTLER	YEAR	SHEET NO.
REVISIONS NO. DATE DESCRIPTION	2016	15
		TOTAL SHEETS
		41



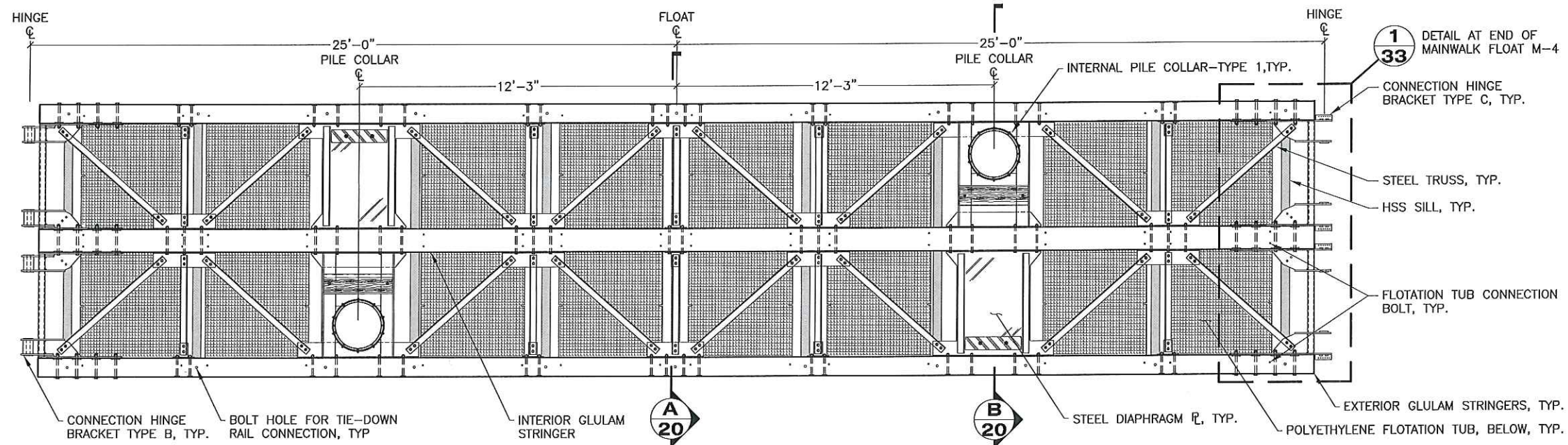
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE *Dane R. R.* Date 12/6/16



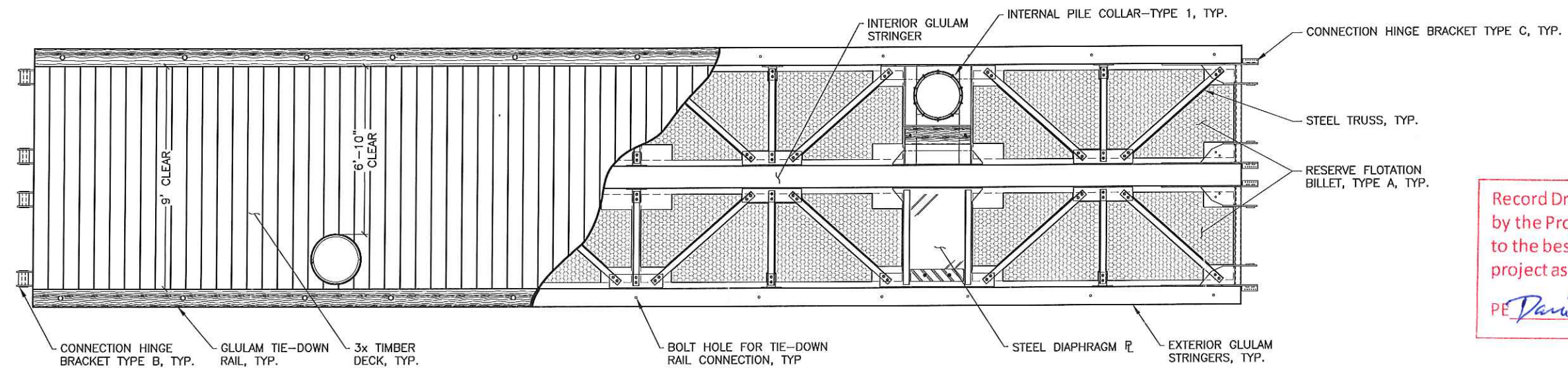
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHWEST REGION					
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353					
	GANGWAY FLOAT - G1 PLAN & ELEVATION					
CHECKED BY: K. MILLER	PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\16 - GANGWAY FLOAT PLAN & ELEV.DWG					
DRAWN BY: STAFF	TAB: 16 Wednesday, January 06, 2016 2:50:13 PM MISTY L. BUTLER					
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	
NO.	DATE	DESCRIPTION	68353	2016	16	41



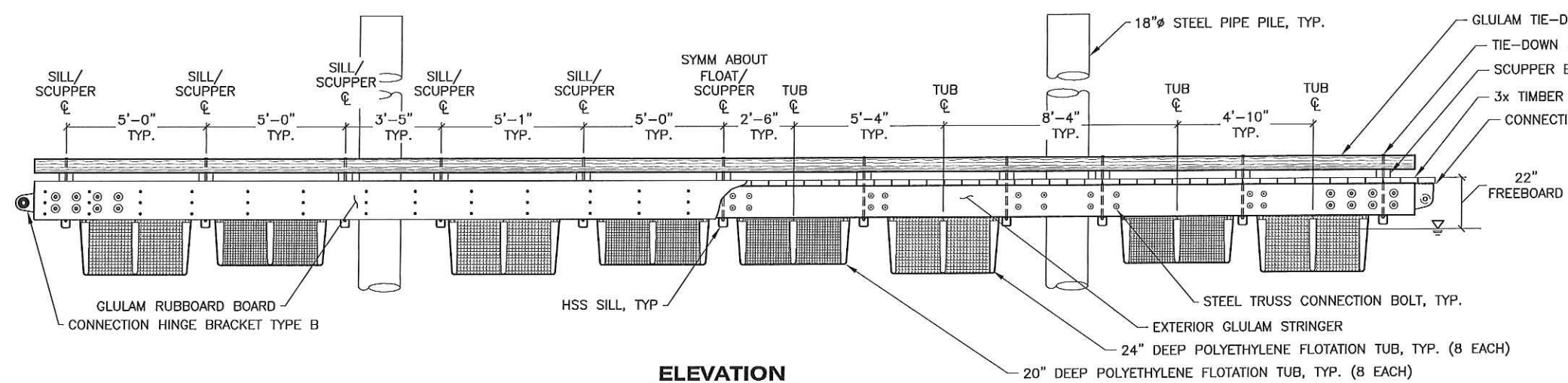
FLOTATION TUB & FRAMING PLAN - M2, M3, & M4

NOTES:
 1. FOR STEEL FRAMING DETAILS REFER TO SHEET 22.
 2. DETAILS APPLY TO BASE BID FLOATS M2, M3, & M4.
 DETAILS ALSO PERTAIN TO FLOATS M5 AND M6 FOR ADDITIVE ALTERNATES A & B.



DECKING & BILLET PLAN

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE *Dani R. R.* Date *12/6/16*



ELEVATION

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER

CHECKED BY: K. MILLER

DRAWN BY: STAFF

PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\17 - TYPICAL MAINWALK FLOAT PLAN & ELEV.DWG

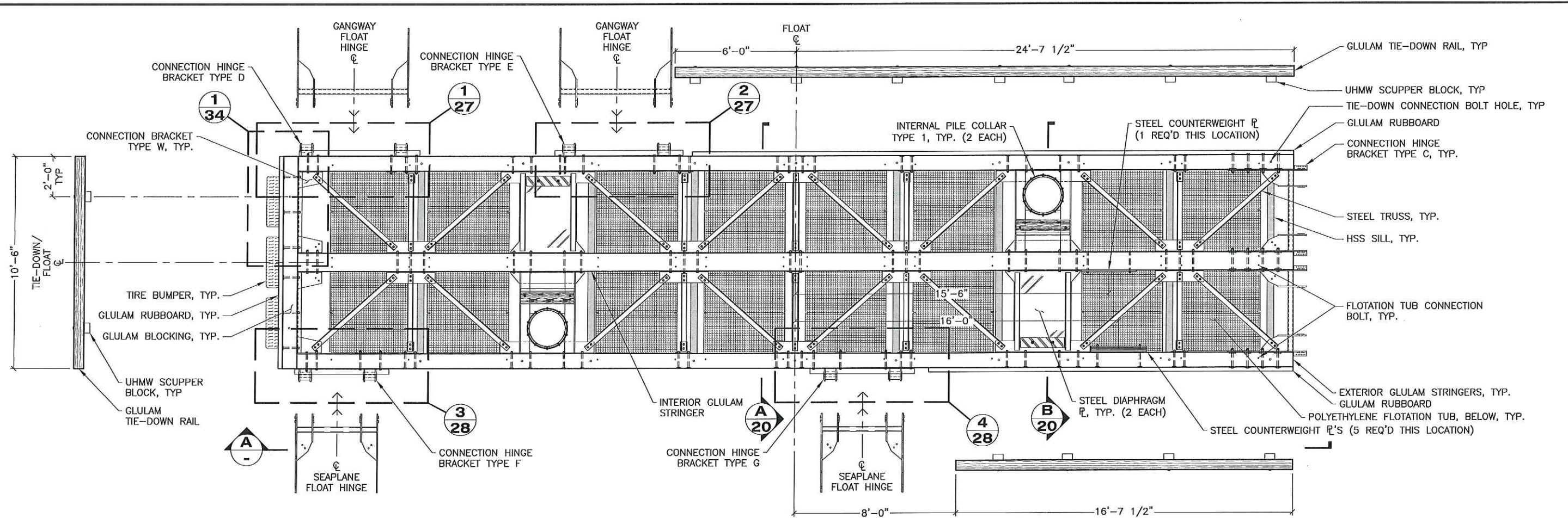
TAB: 17 Wednesday, January 06, 2016 2:56:11 PM MISTY L. BUTLER

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHCOST REGION

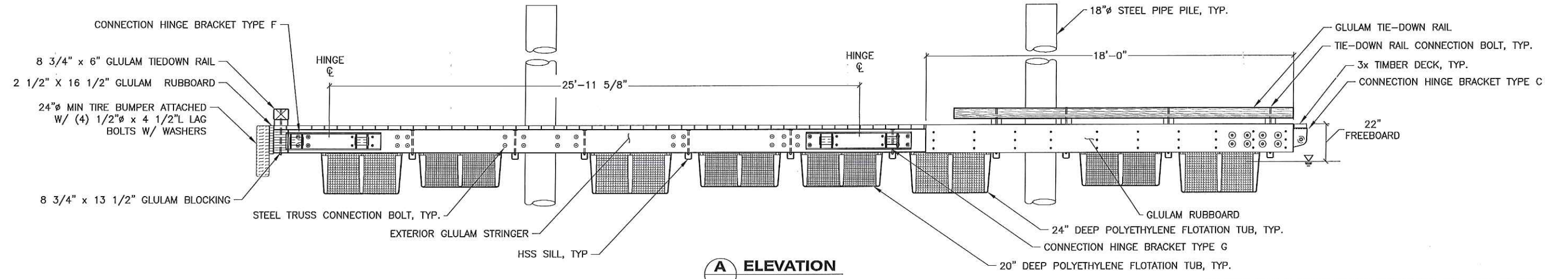
BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353

TYPICAL MAINWALK FLOAT PLAN & ELEVATION

NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68353	2016	17	41



FLOTATION TUB & FRAMING PLAN - M1



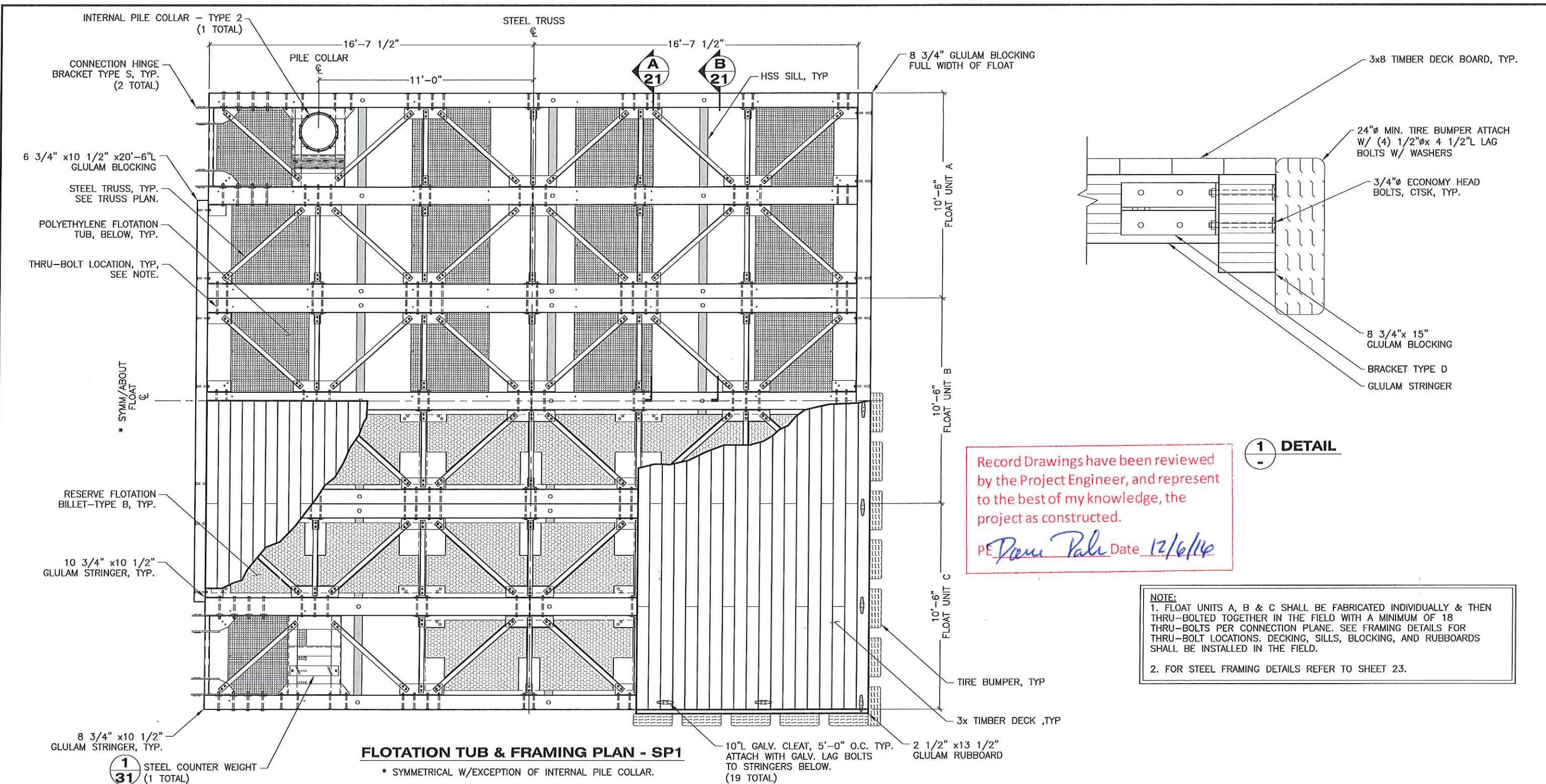
A ELEVATION

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE *Dan Pelt* Date *12/6/18*

NOTE: DETAILS NOT SHOWN SIMILAR TO TYPICAL MAINWALK FLOAT.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION					
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353					
	MAINWALK FLOAT - M1 PLAN & ELEVATION					
CHECKED BY: K. MILLER	PATH: Q:\SIT\68353\MF\PLANSET\B.FINAL -JAN 2016\18 - MAINWALK FLOAT M-1 PLAN & ELEV.DWG					
DRAWN BY: STAFF	TAB: 18 Wednesday, January 06, 2016 2:50:44 PM MISTY L. BUTLER					
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	
NO.	DATE	DESCRIPTION	68353	2016	18	41

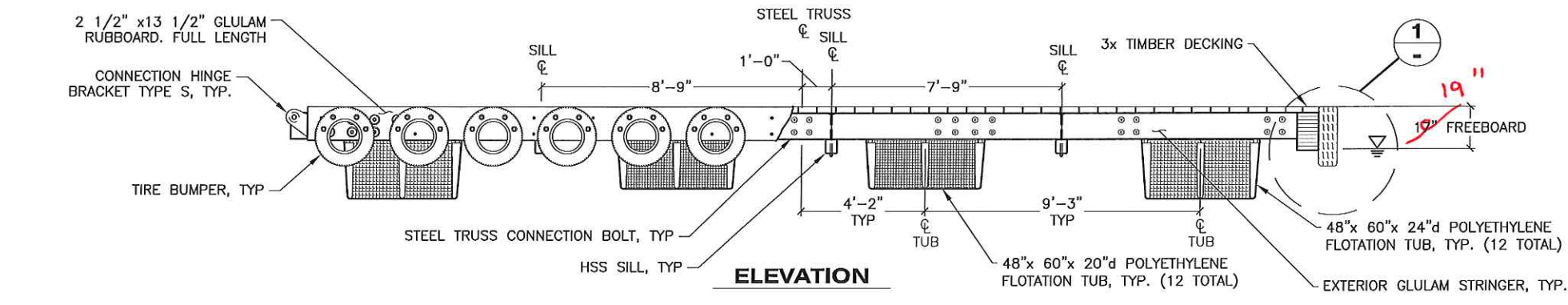


Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE *Doreen Palu* Date *12/6/14*

1 DETAIL

NOTE:
 1. FLOAT UNITS A, B & C SHALL BE FABRICATED INDIVIDUALLY & THEN THRU-BOLTED TOGETHER IN THE FIELD WITH A MINIMUM OF 18 THRU-BOLTS PER CONNECTION PLANE. SEE FRAMING DETAILS FOR THRU-BOLT LOCATIONS. DECKING, SILLS, BLOCKING, AND RUBBOARDS SHALL BE INSTALLED IN THE FIELD.
 2. FOR STEEL FRAMING DETAILS REFER TO SHEET 23.

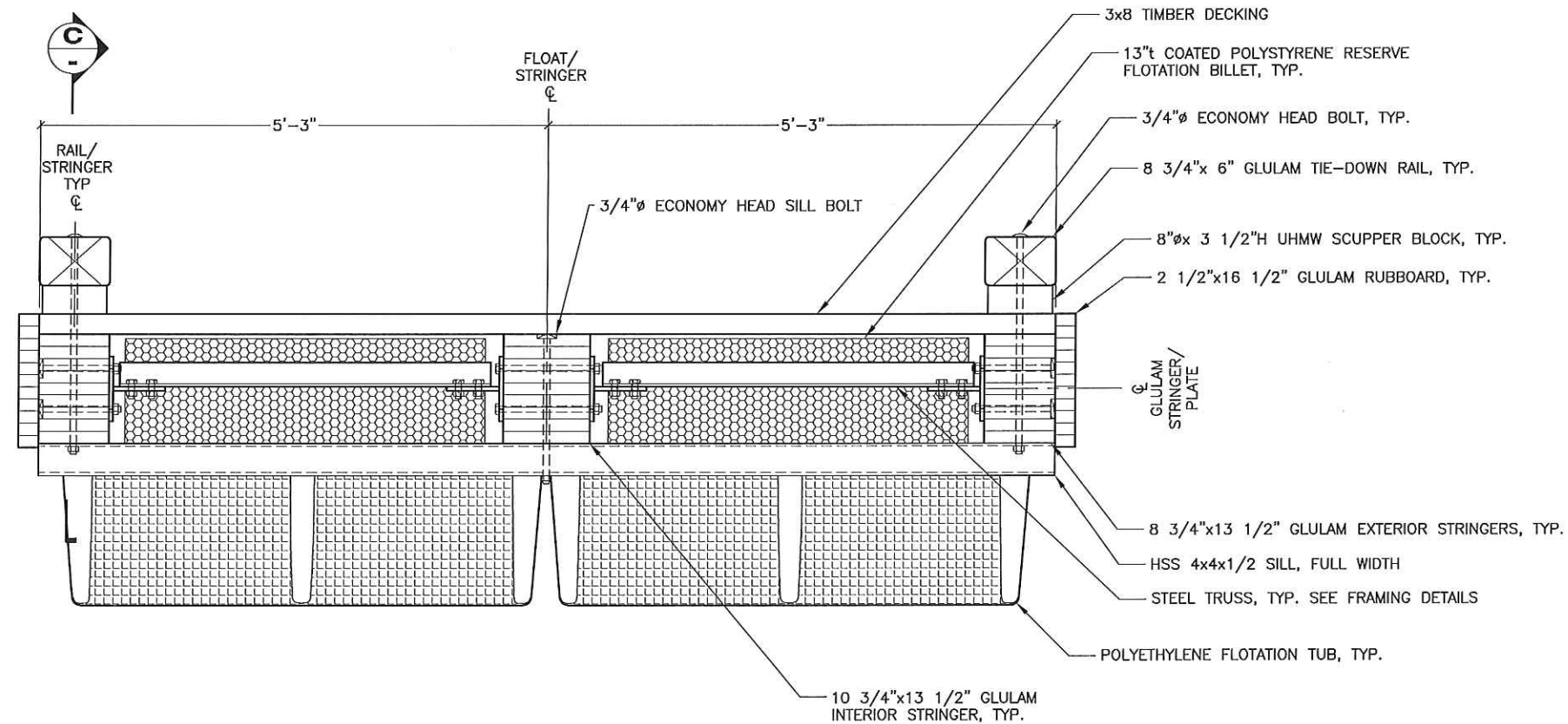
FLOTATION TUB & FRAMING PLAN - SP1
 * SYMMETRICAL W/EXCEPTION OF INTERNAL PILE COLLAR.



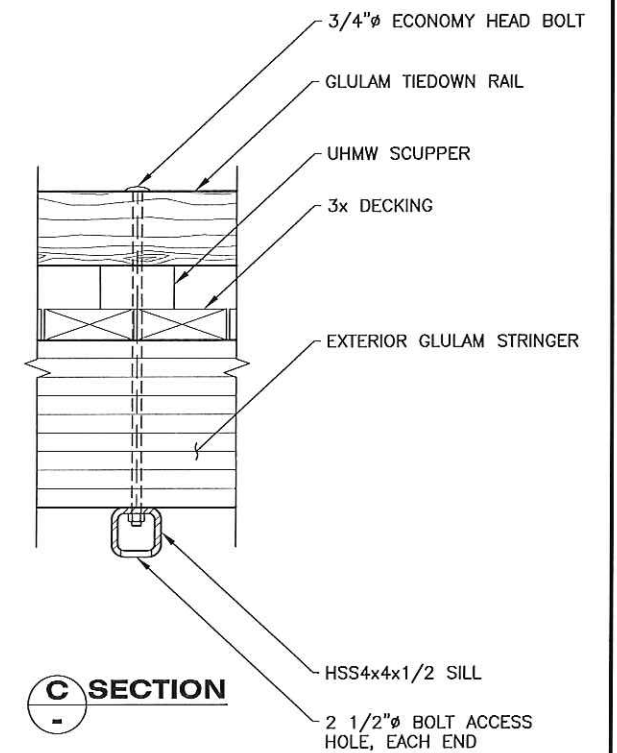
ELEVATION

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

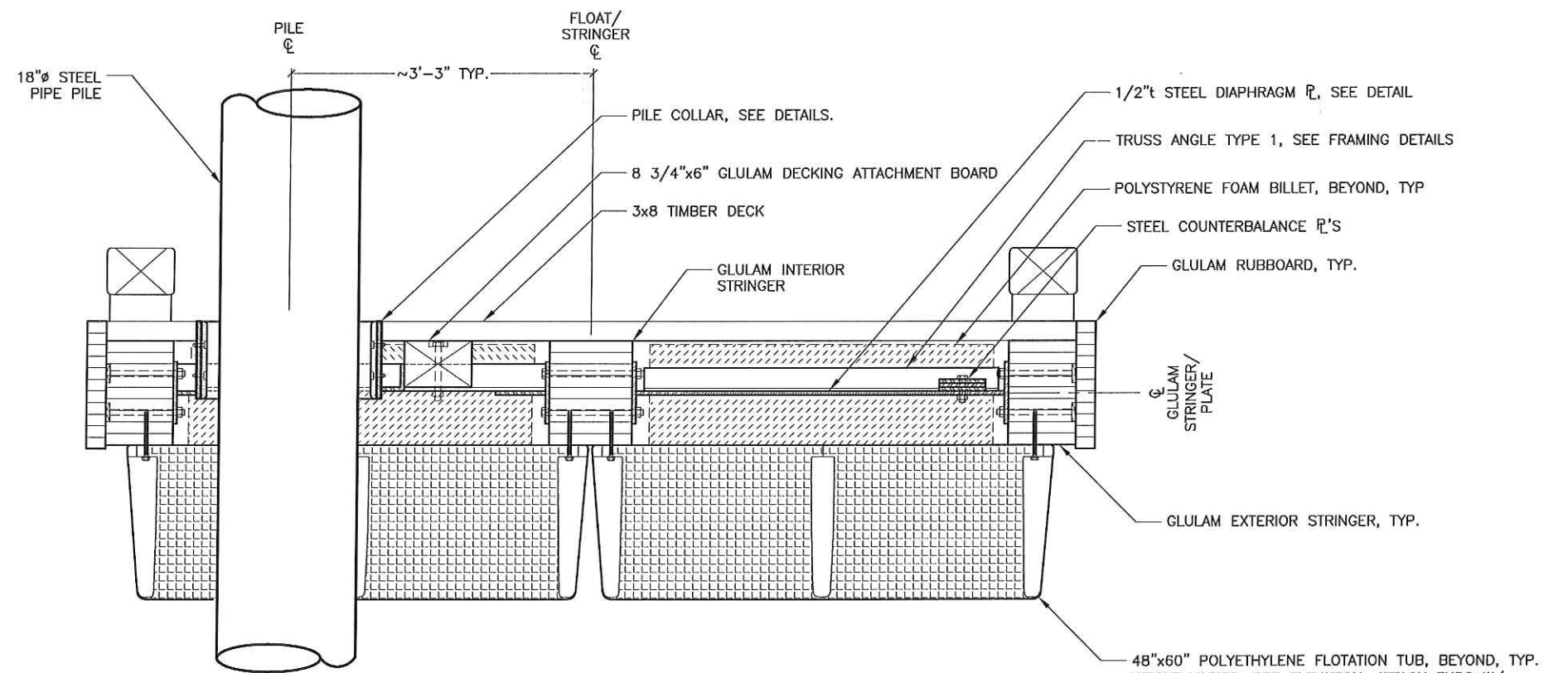
DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION					
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353					
	SEAPLANE FLOAT -SP1 PLAN & ELEVATION					
CHECKED BY: K. MILLER	PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\19 - SEAPLANE FLOAT PLAN & ELEV.DWG					
DRAWN BY: STAFF	TAB: 19 Wednesday, January 06, 2016 2:50:55 PM MISTY L. BUTLER					
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	
NO.	DATE	DESCRIPTION	68353	2016	19	41



A TYPICAL MAINWALK SECTION



C SECTION

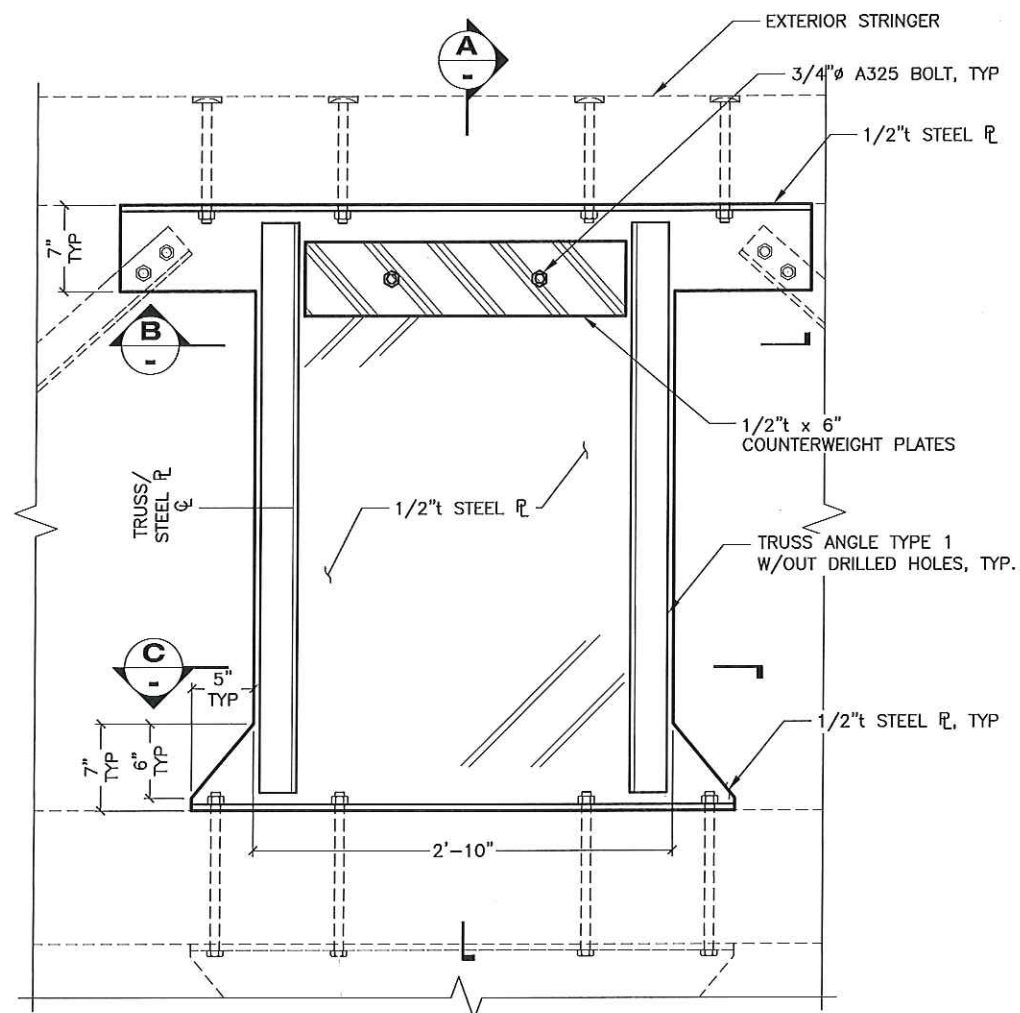


B TYPICAL MAINWALK SECTION AT PILE COLLAR
NOTE: DETAILS NOT SHOWN SIMILAR TO TYPICAL MAINWALK SECTION.

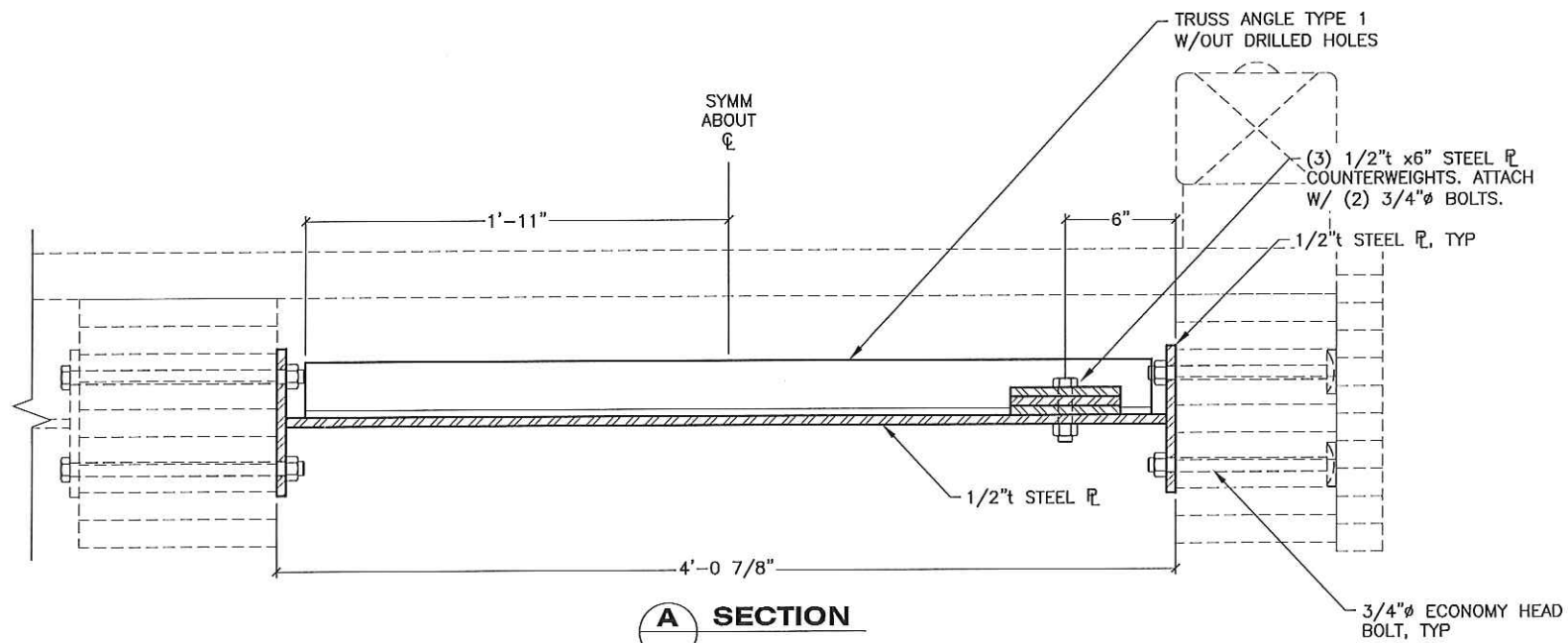
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE *Diane Pol* Date *12/6/16*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

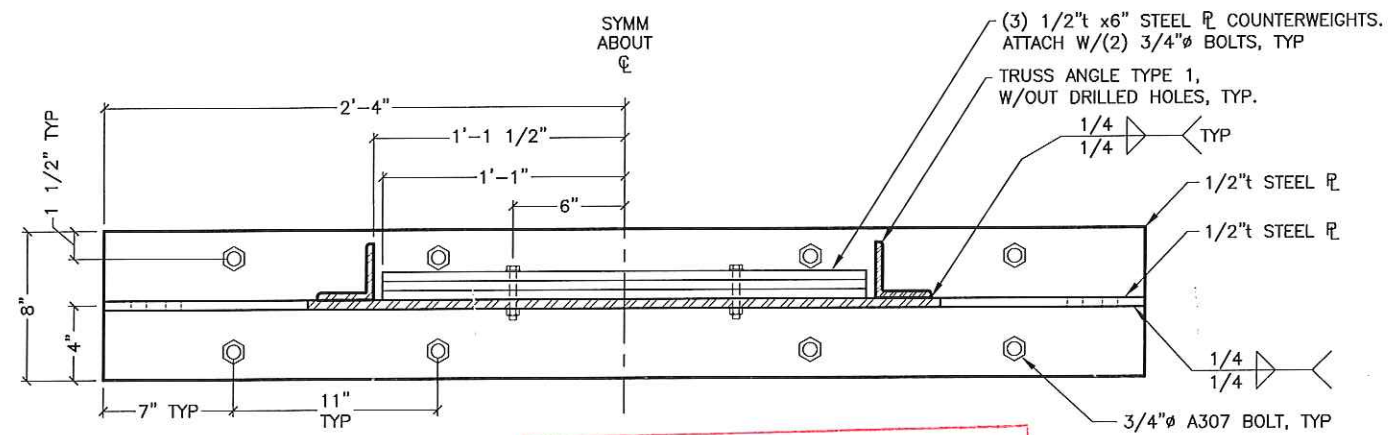
DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
	FLOAT SECTIONS			
CHECKED BY: K. MILLER	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
DRAWN BY: STAFF	68353	2016	20	41
PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\20 - FLOAT SECTIONS.DWG TAB: 20 Wednesday, January 06, 2016 2:51:09 PM MISTY L. BUTLER				
REVISIONS				
NO.	DATE	DESCRIPTION		



DIAPHRAGM PLATE
PLAN
(TYPICAL MAINWALK FLOAT)

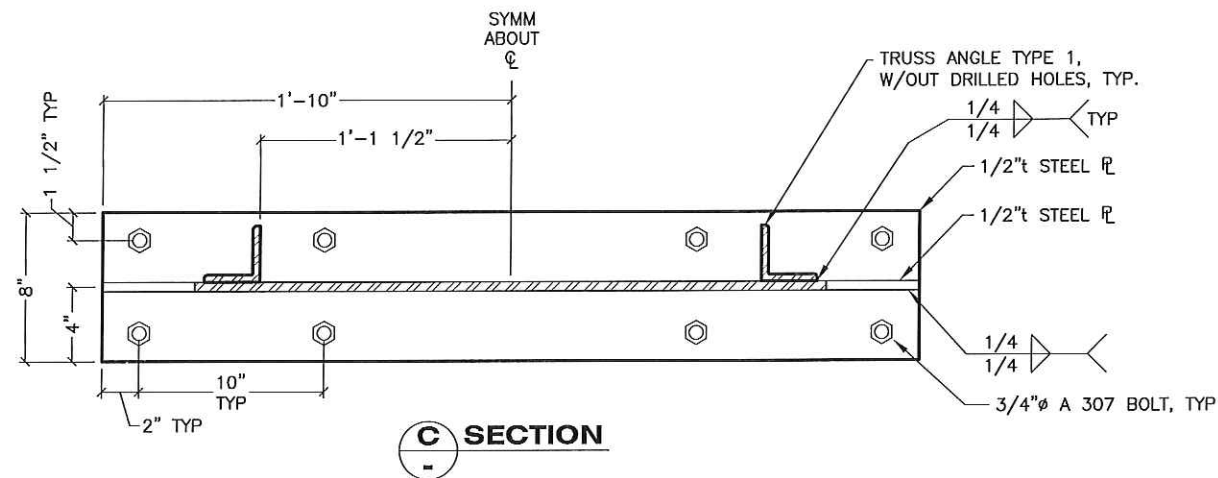


A SECTION




B SECTION

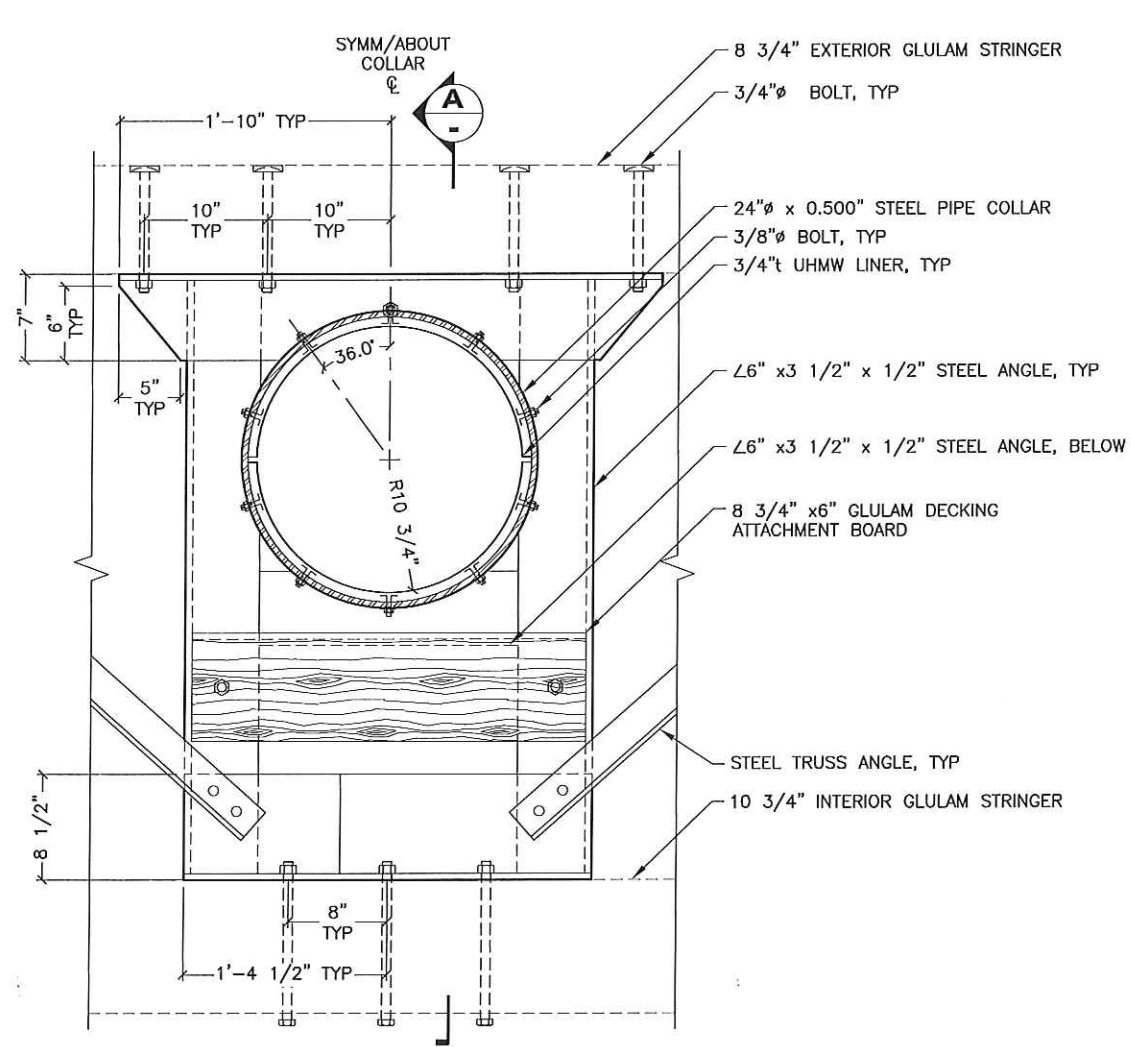
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE *Dan Pelt* Date *12/6/16*



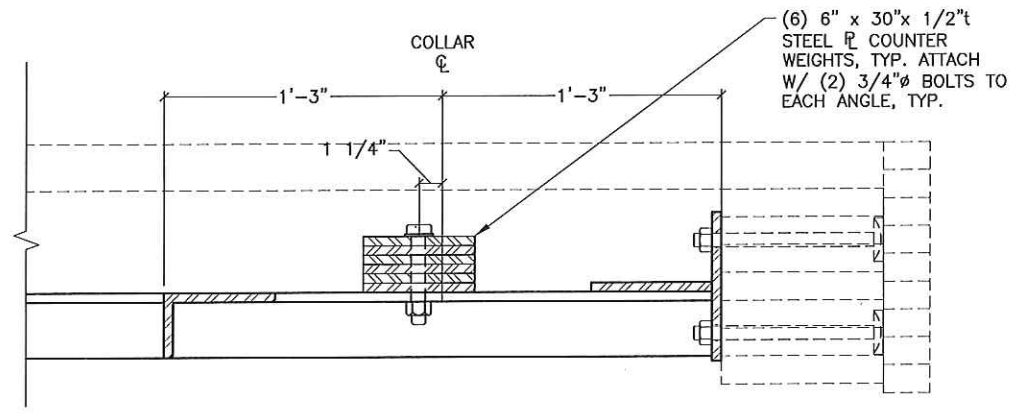
C SECTION

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

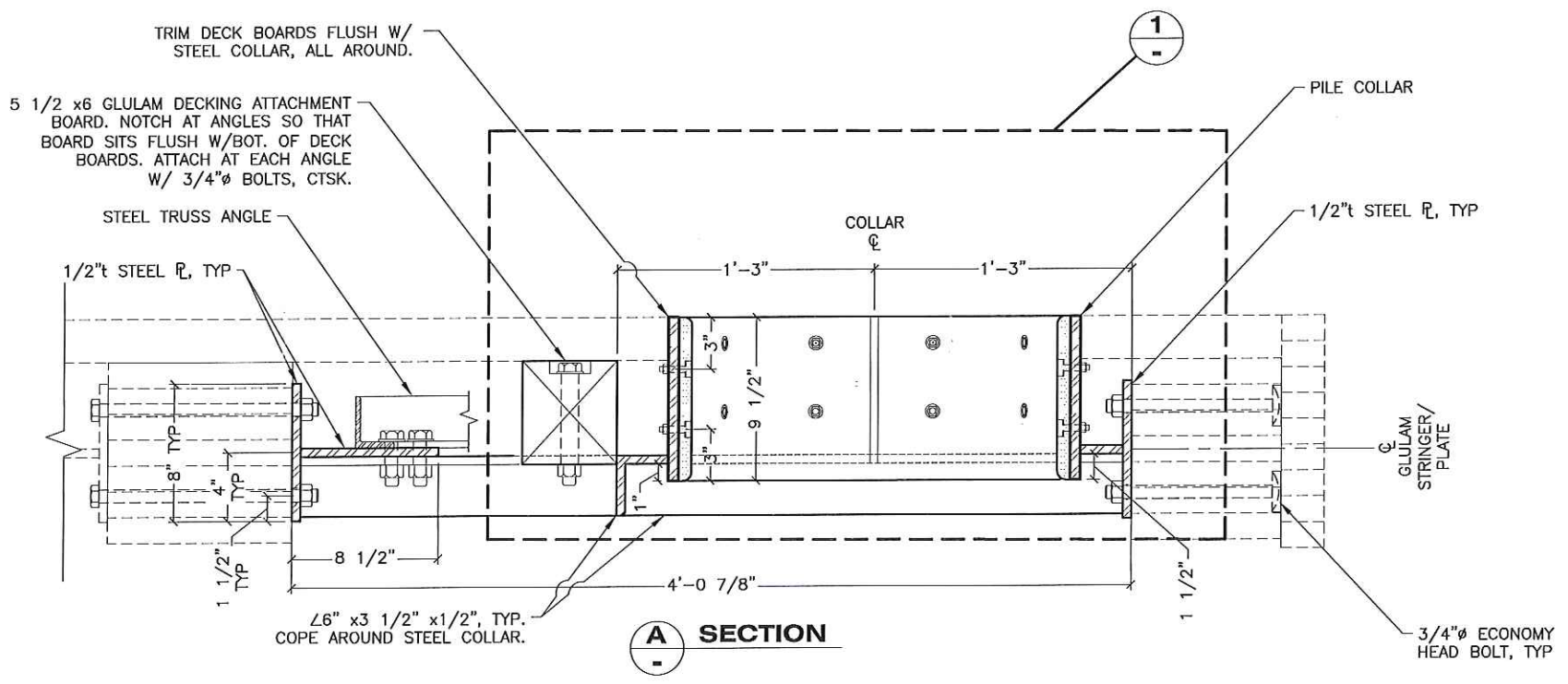
DESIGNED BY: M. BUTLER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
		BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
CHECKED BY: K. MILLER		INTERNAL PILE COLLAR DETAILS			
DRAWN BY: STAFF		PATH: Q:\SIT\68353\MF\PLANSET\B. FINAL -JAN 2016\30 - INTERNAL PILE COLLAR DETAILS.DWG			
TAB: 30		Wednesday, January 06, 2016 2:59:15 PM MISTY L. BUTLER			
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	68353	2016	30
				41	



INTERNAL PILE COLLAR - TYPE 2
 PLAN
 (SEAPLANE FLOAT PILE COLLAR)



1 COUNTER WEIGHT DETAILS
 NOTE: DETAILS NOT SHOWN SIMILAR TO INTERNAL PILE COLLAR - TYPE 2.




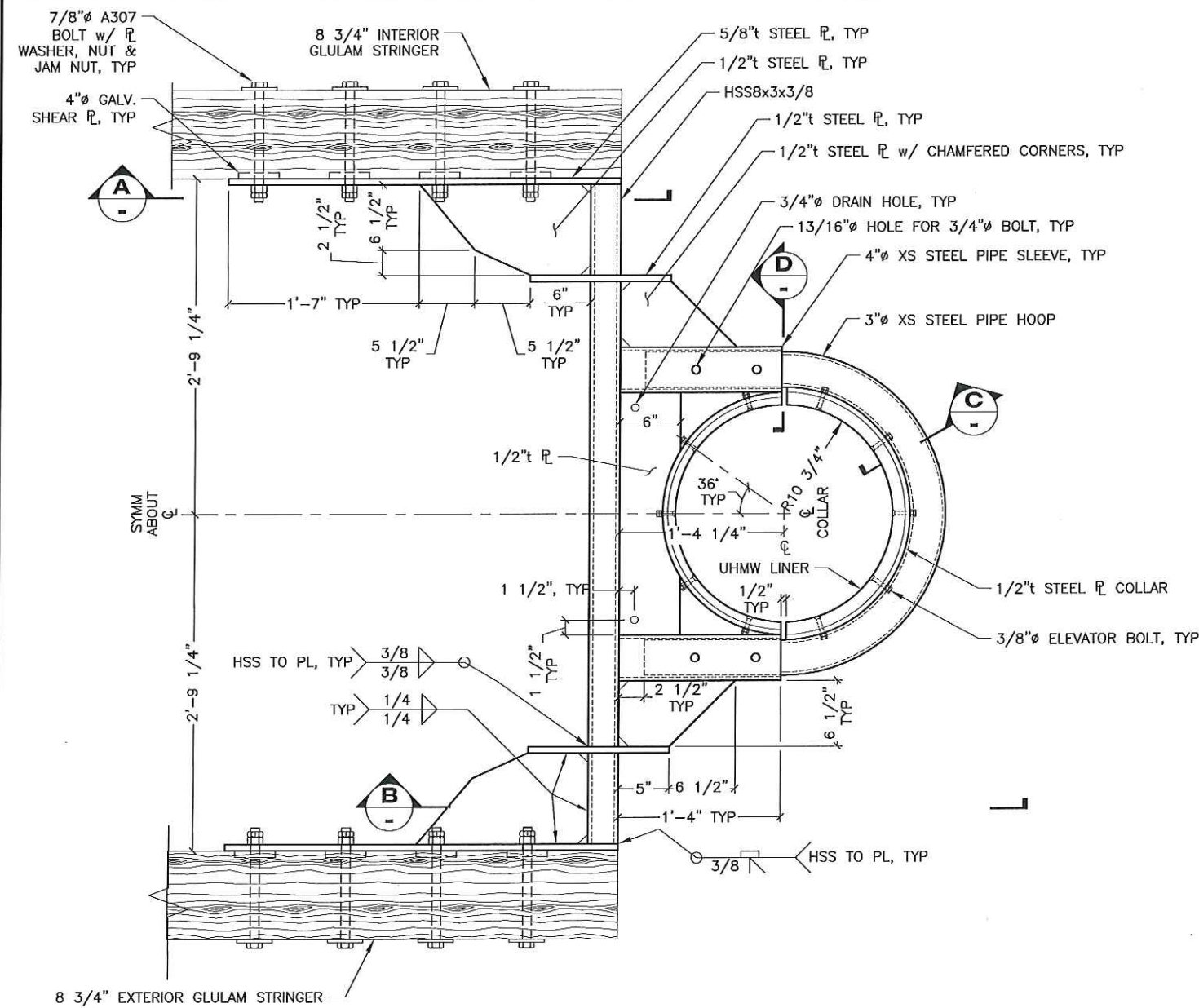
A SECTION

NOTE:
 1. DETAILS ON THIS SHEET PERTAIN TO THE SEAPLANE FLOAT PILE COLLAR AND COUNTER WEIGHT.
 2. DETAILS NOT SHOWN SIMILAR TO INTERNAL PILE COLLAR - TYPE 1.
 3. 6"x3 1/2" ANGLES ARE FLIPPED UPSIDE DOWN FROM INTERNAL PILE COLLAR - TYPE 1.

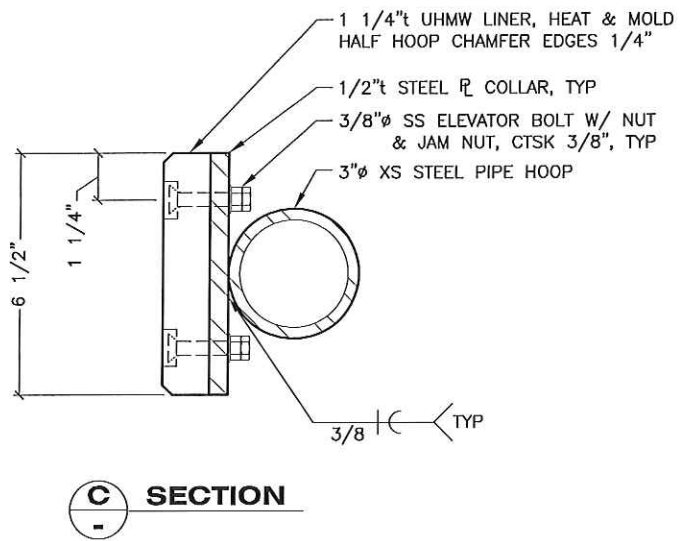
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE *Dave Park* Date *12/6/16*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

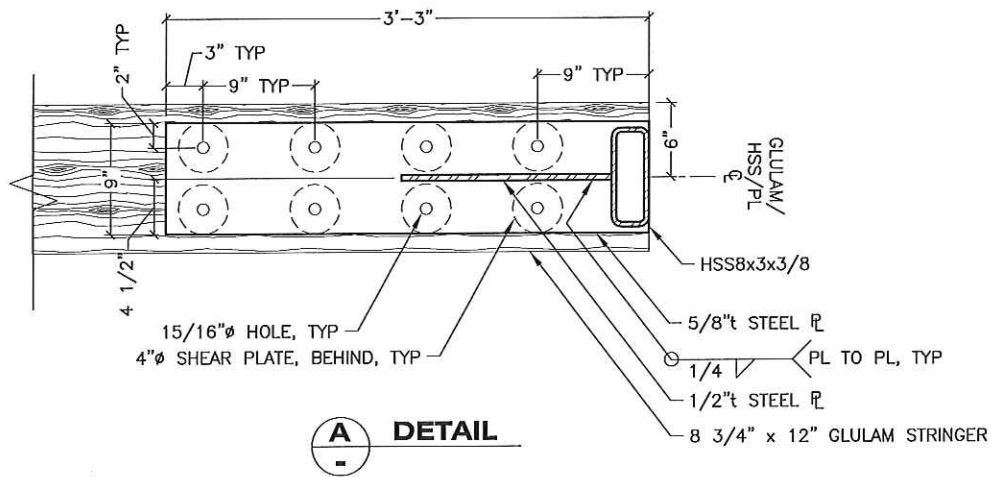
DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
	INTERNAL PILE COLLAR DETAILS			
CHECKED BY: K. MILLER	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
DRAWN BY: STAFF	68353	2016	31	41
PATH: Q:\SIT\68353\MF\PLANSET\B.FINAL -JAN 2016\31 - INTERNAL PILE COLLAR DETAILS.DWG TAB: 31 Wednesday, January 06, 2016 3:00:30 PM MISTY L. BUTLER				



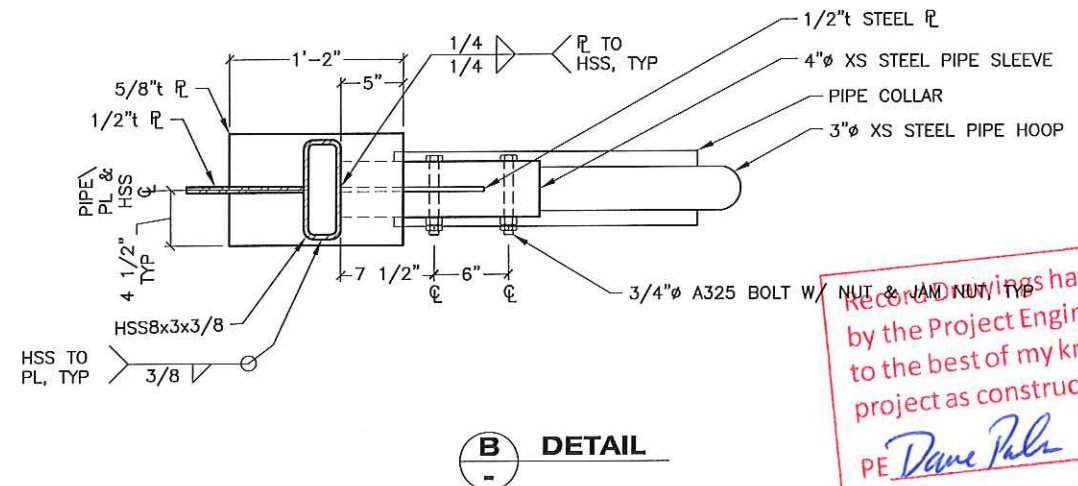
EXTERNAL PILE COLLAR -TYPE 1
(2 TOTAL)
PLAN
(GANGWAY FLOAT)



C SECTION



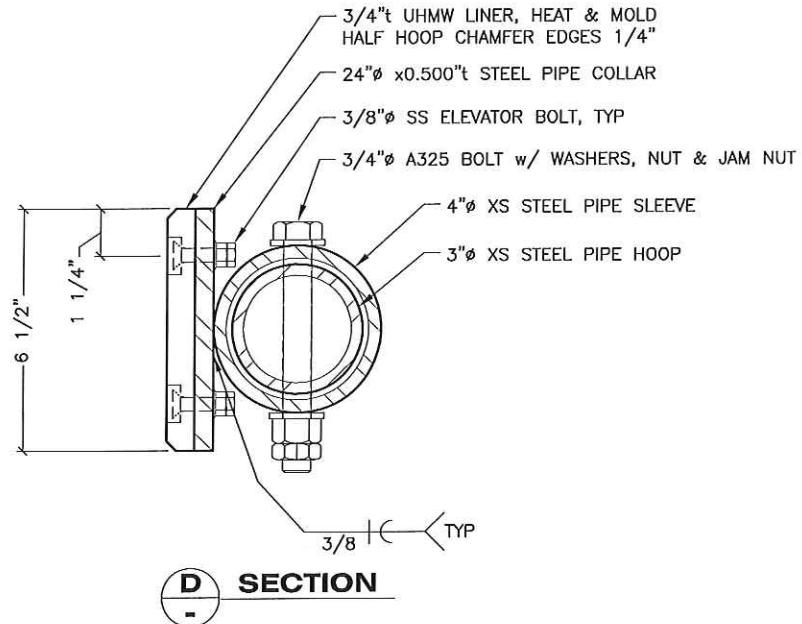
A DETAIL



B DETAIL


Record drawings have been reviewed
 by the Project Engineer, and represent
 to the best of my knowledge, the
 project as constructed.
 PE *Dave Palz* Date *12/6/16*

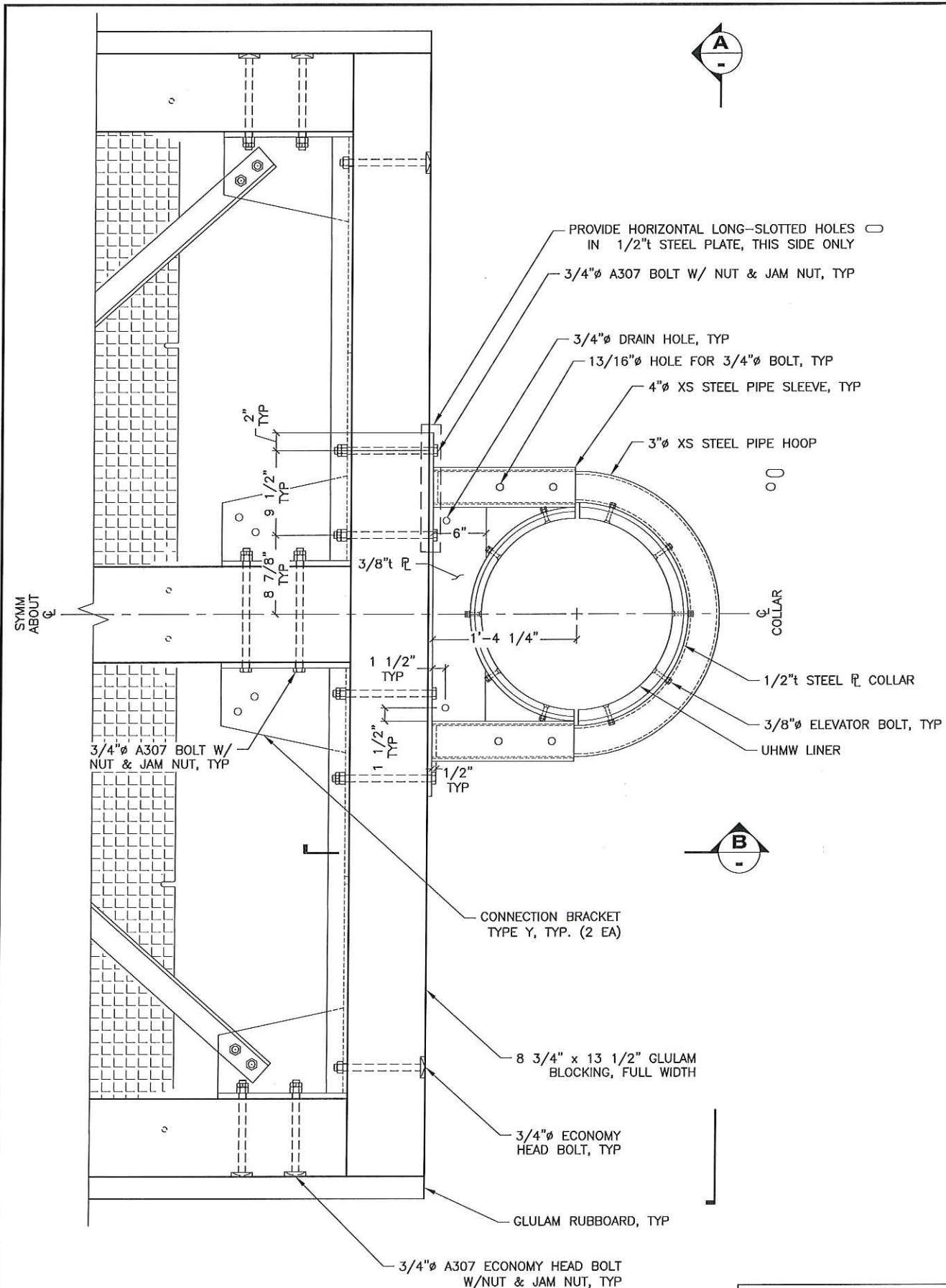
NOTE: ALL WELDS ARE 1/4\"/>



D SECTION

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

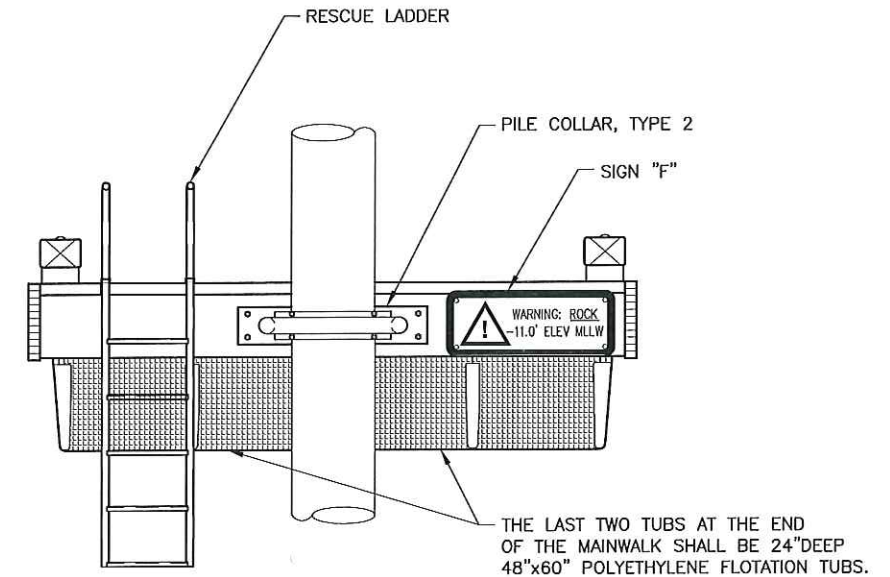
DESIGNED BY: M. BUTLER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353 EXTERNAL PILE COLLAR DETAILS			
 CHECKED BY: K. MILLER DRAWN BY: STAFF					
PATH: Q:\SIT\68353\MF\PLANSET\B.FINAL -JAN 2016\32 - EXTERNAL PILE COLLAR DETAILS.DWG TAB: 32 Wednesday, January 06, 2016 3:00:41 PM MISTY L. BUTLER		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
		68353	2016	32	41



1 EXTERNAL PILE COLLAR - TYPE 2*
(1 TOTAL) PLAN

*END OF MAINWALK FLOAT M4 - BASE BID
OR, END OF MAINWALK FLOAT M5 - ADD ALT A
OR, END OF MAINWALK FLOAT M6 - ADD ALT B

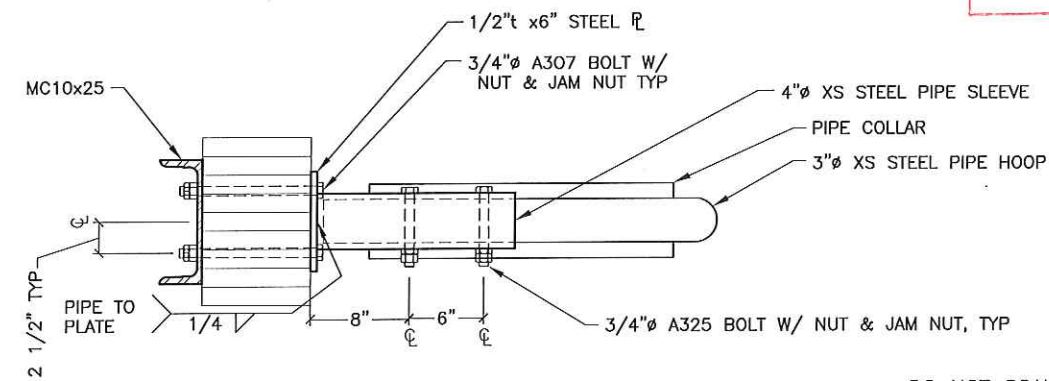
NOTE:
PILE COLLAR DETAILS NOT SHOWN SIMILAR TO EXTERNAL PILE COLLAR-TYPE 1.



A END ELEVATION

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

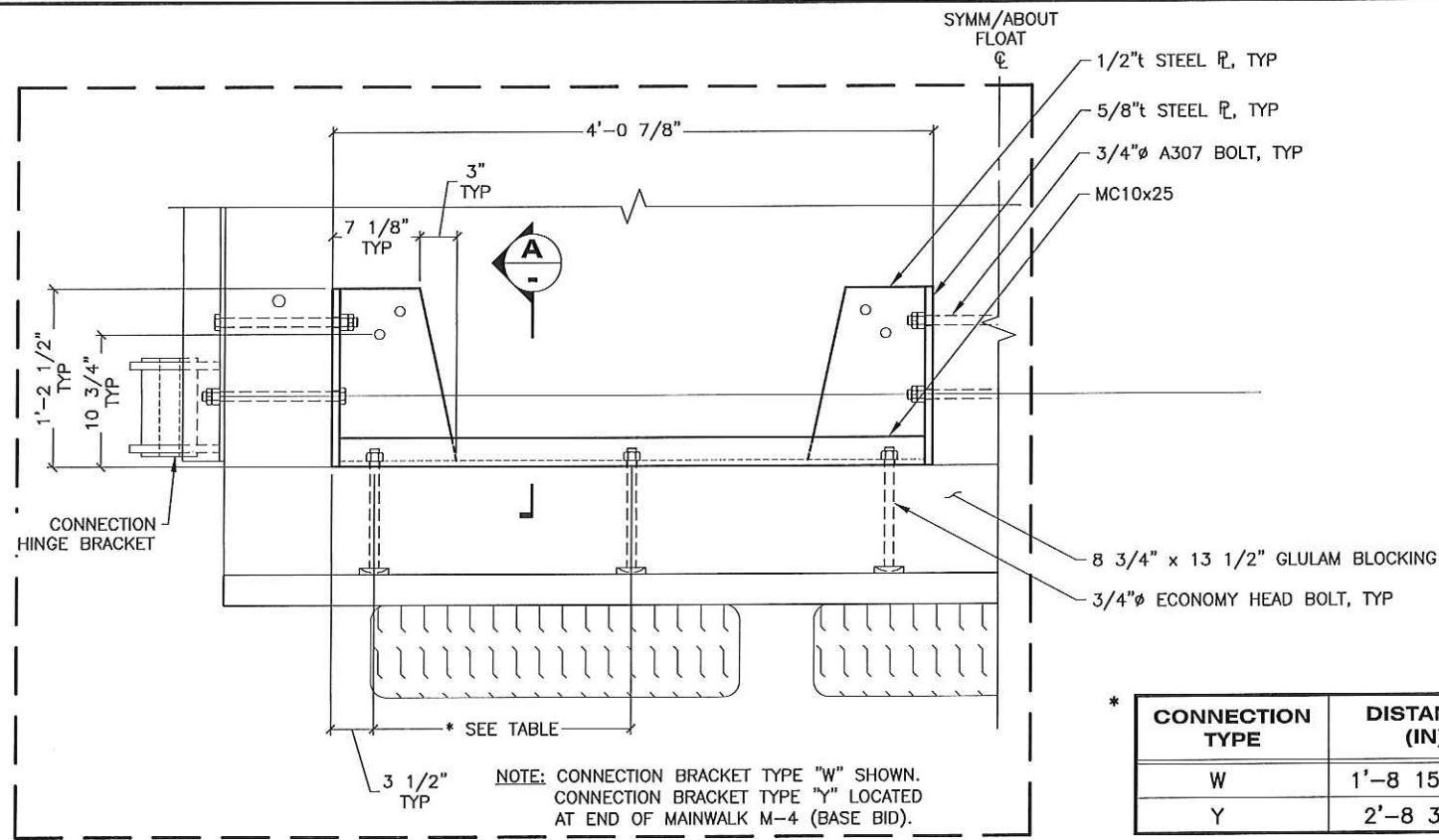
PE *Diane Palen* Date *12/16/16*



B ELEVATION

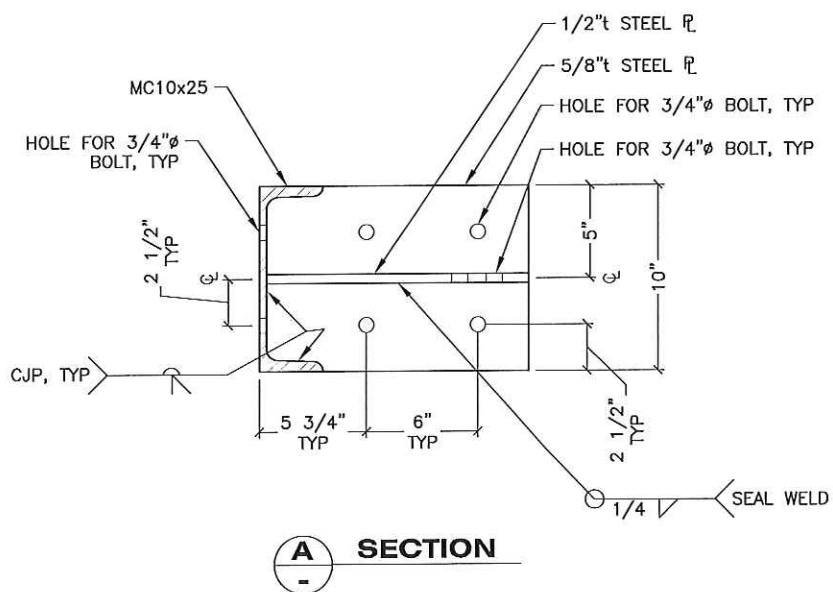
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
		BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
CHECKED BY: K. MILLER		EXTERNAL PILE COLLAR DETAILS.DWG			
DRAWN BY: STAFF		MISTY L. BUTLER			
PATH: Q:\SIT\68353\MF\PLANSET\B.FINAL --JAN 2016\33 --		WEDNESDAY, JANUARY 06, 2016 3:00:51 PM			
TAB: 33		PROJECT DESIGNATION			
		YEAR			
		SHEET NO.			
		TOTAL SHEETS			
		68353			
		2016			
		33			
		41			

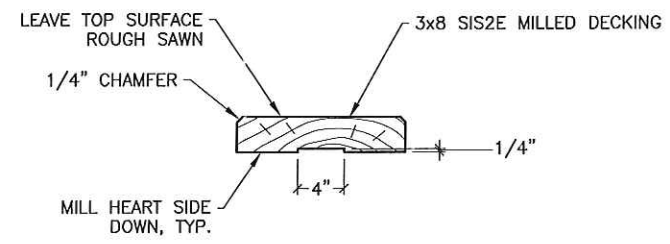


CONNECTION TYPE	DISTANCE (IN)
W	1'-8 15/16"
Y	2'-8 3/8"

1 CONNECTION BRACKET - TYPES W & Y
(2 TOTAL EA TYPE) PLAN

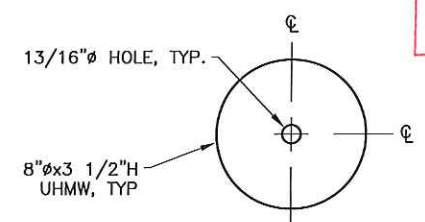


A SECTION

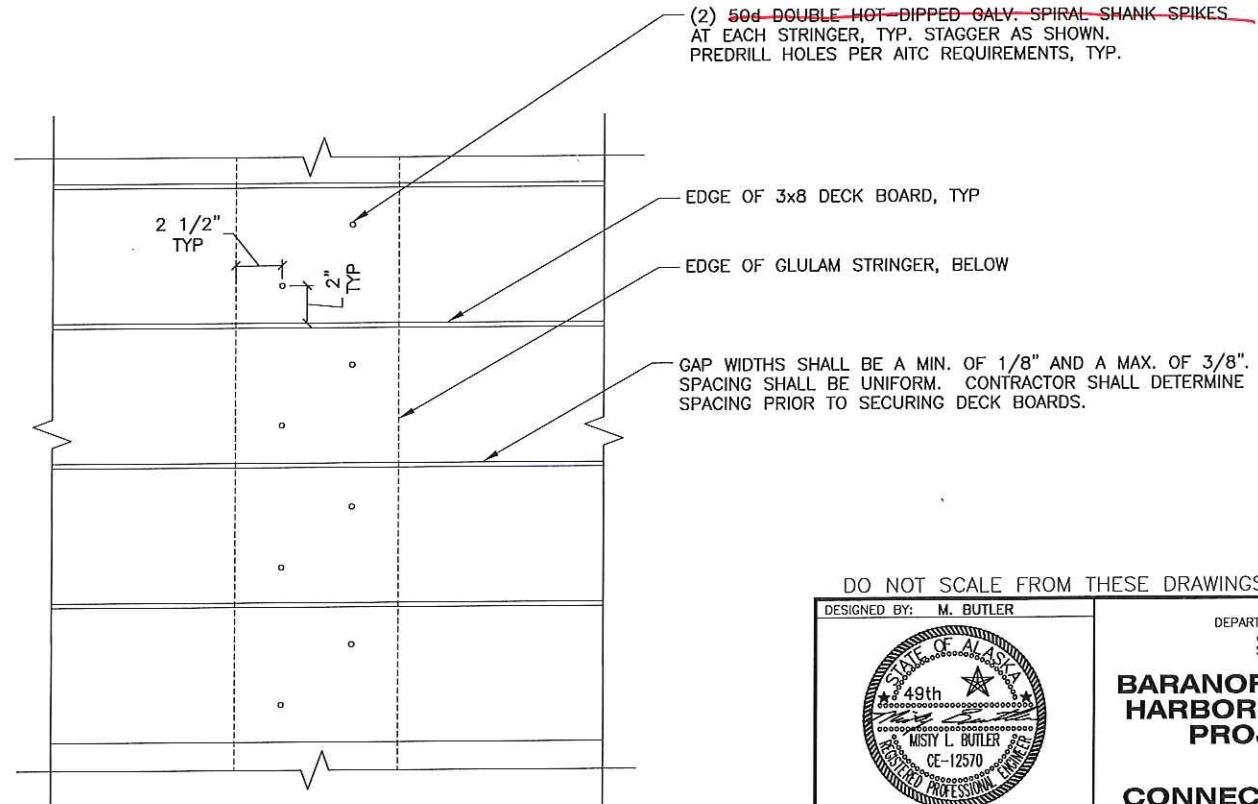


MILLED DECKING SECTION

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE *Dave Palz* Date *12/6/14*



SCUPPER BLOCK DETAIL PLAN



TYPICAL DECK ATTACHMENT DETAILS

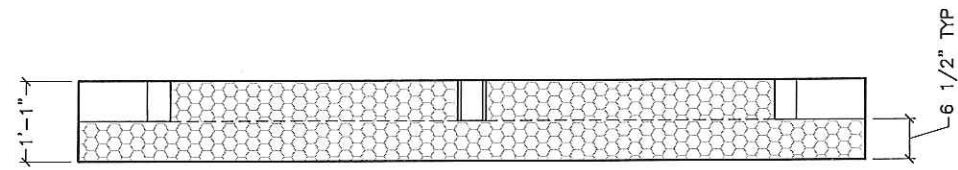
60d nails were used in lve of 50d spikes

(2) ~~50d DOUBLE HOT-DIPPED GALV. SPIRAL SHANK SPIKES~~ AT EACH STRINGER, TYP. STAGGER AS SHOWN. PREDRILL HOLES PER AITC REQUIREMENTS, TYP.

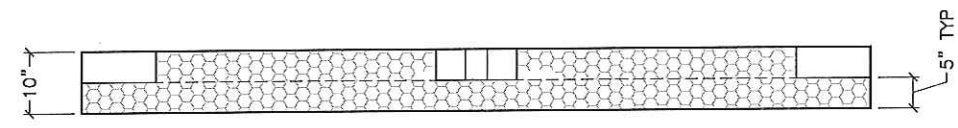
GAP WIDTHS SHALL BE A MIN. OF 1/8" AND A MAX. OF 3/8". SPACING SHALL BE UNIFORM. CONTRACTOR SHALL DETERMINE SPACING PRIOR TO SECURING DECK BOARDS.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

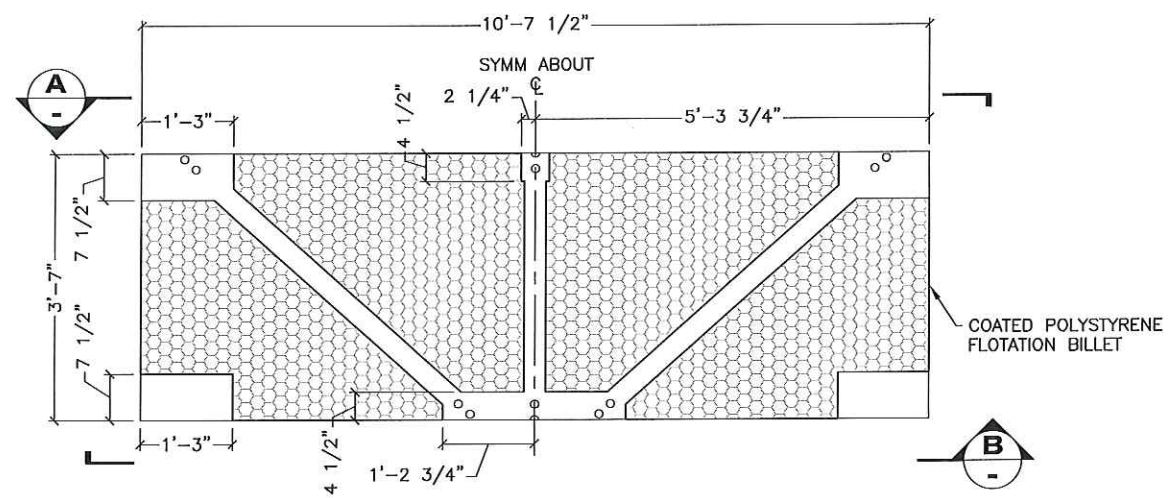
DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
	CONNECTION BRACKET & MISC DETAILS			
CHECKED BY: K. MILLER	PROJECT DESIGNATION			
DRAWN BY: STAFF	YEAR			
PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\34 - CONNECTION BRACKET & MISC DETAILS.S.DWG		MISTY L. BUTLER		TOTAL SHEETS
TAB: 34	Wednesday, January 06, 2016 3:01:01 PM		68353	41
REVISIONS		PROJECT DESIGNATION		
NO.	DATE	DESCRIPTION	YEAR	SHEET NO.
			2016	34



A SIDE ELEVATION

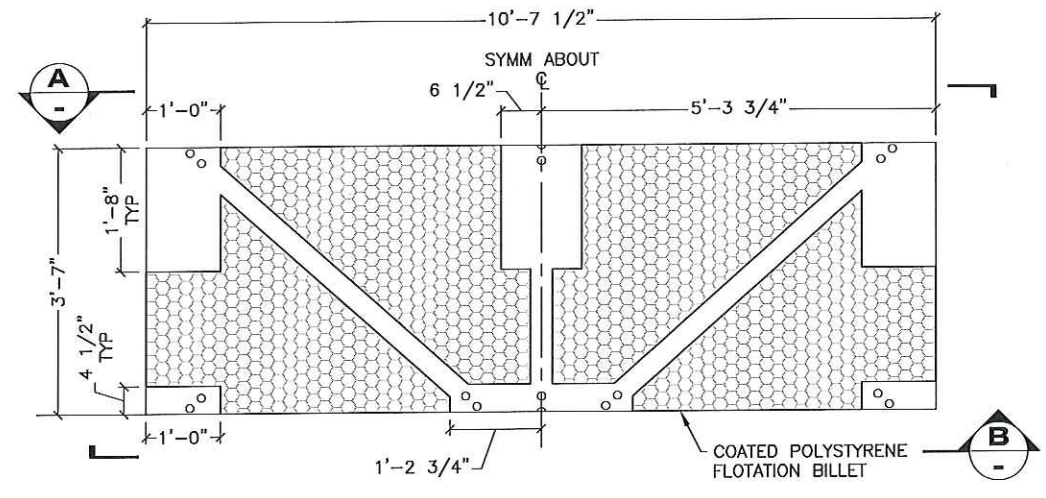


A SIDE ELEVATION



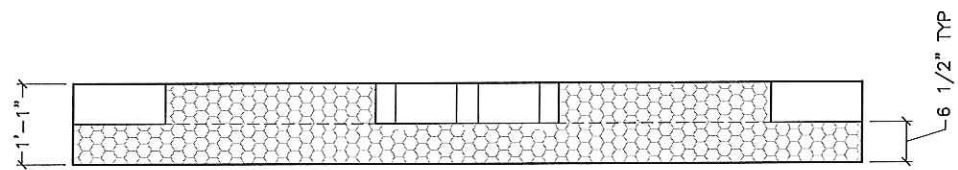
RESERVE BILLET - TYPE A (MAINWALK FLOATS)

PLAN
 (BASE BID: 16 TOTAL - AS SHOWN, 16 TOTAL - OPP HAND)
 (ADD ALT A: 20 TOTAL - AS SHOWN, 20 TOTAL - OPP HAND)
 (ADD ALT B: 24 TOTAL - AS SHOWN, 24 TOTAL - OPP HAND)

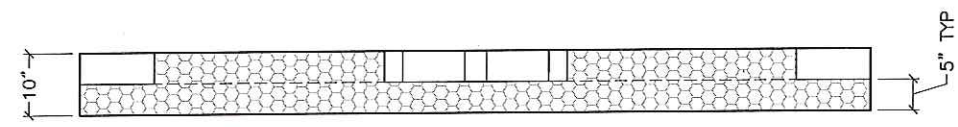


RESERVE BILLET - TYPE B (SEAPLANE FLOAT)

PLAN
 (10 TOTAL - AS SHOWN)
 (6 TOTAL - OPP HAND)



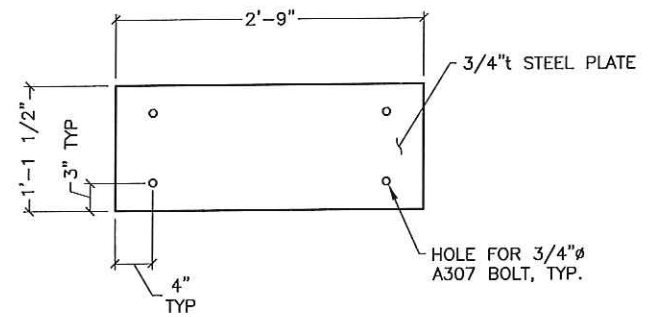
B SIDE ELEVATION



B SIDE ELEVATION

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE *Don R...* Date *12/16/16*

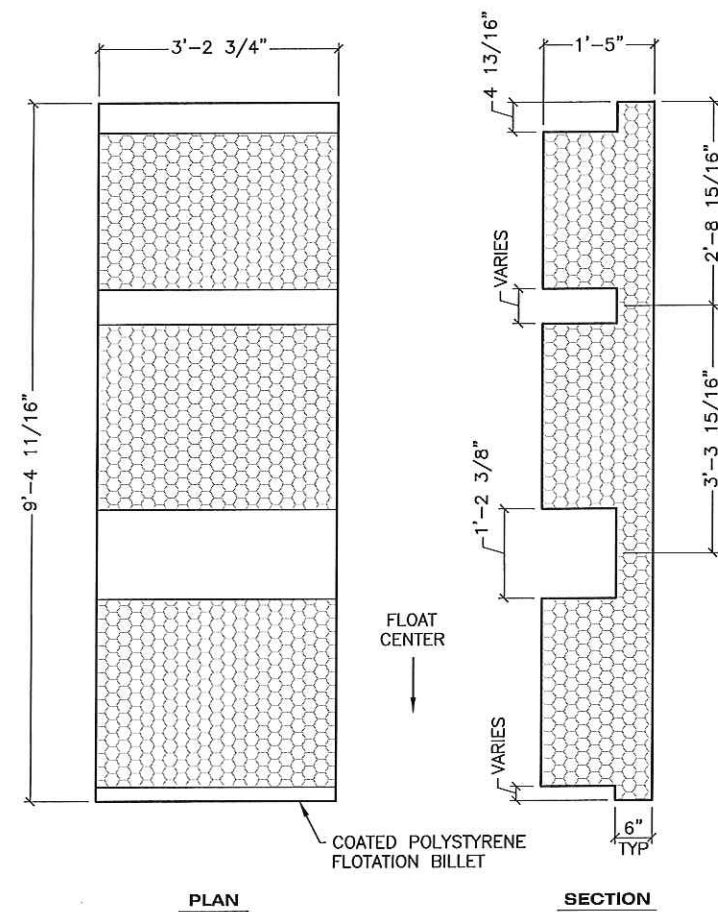
NOTES:
 1. ALL BILLETS ARE CLOSED-CELL, EXPANDED POLYSTYRENE (EPS) COATED ON ALL SIDES WITH A SEAMLESS POLYUREA COATING PER SPECIFICATIONS. POLYSTYRENE SHALL BE CUT TO FINAL SHAPE PRIOR TO APPLYING POLYUREA COATING.
 2. GENERAL BILLET LAYOUT AND DIMENSIONS SHOWN. CONTRACTOR TO DETERMINE FINAL GEOMETRY AND DIMENSIONS, AND SUBMIT TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 3. THE OVERALL BILLET DIMENSIONS SHOWN ARE FINAL DIMENSIONS OF BILLET WITH POLYUREA COATING.
 4. THE BILLETS ARE INTENDED TO BE SLID UP IN-BETWEEN FLOAT FRAMING MEMBERS. A HORIZONTAL CLEARANCE OF 1/4\"/>



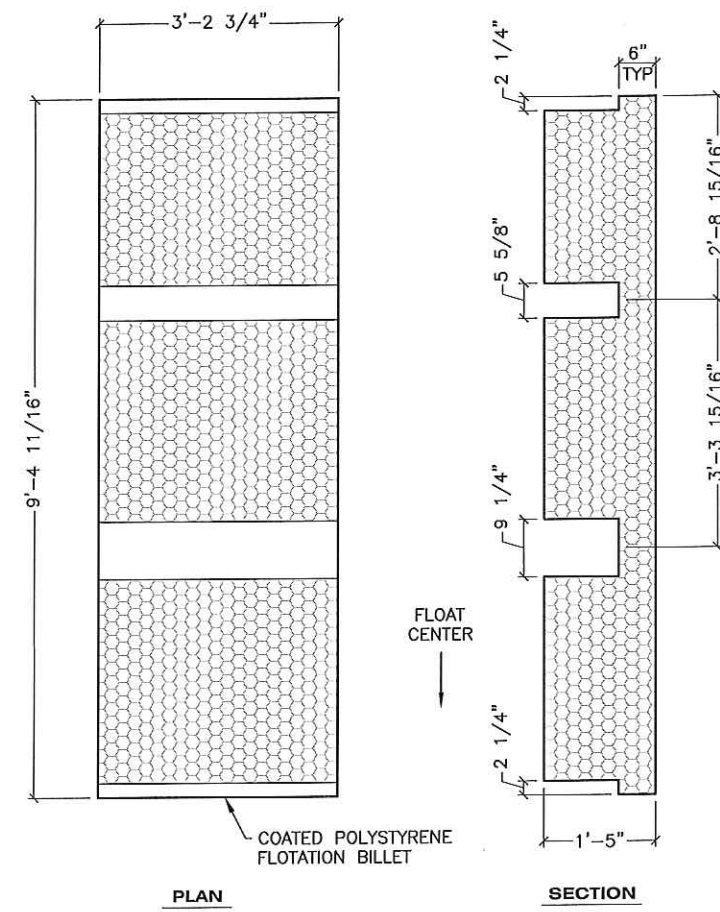
MAINWALK FLOAT M-1 COUNTERWEIGHT
 (6 TOTAL) ~95 LBS EACH

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

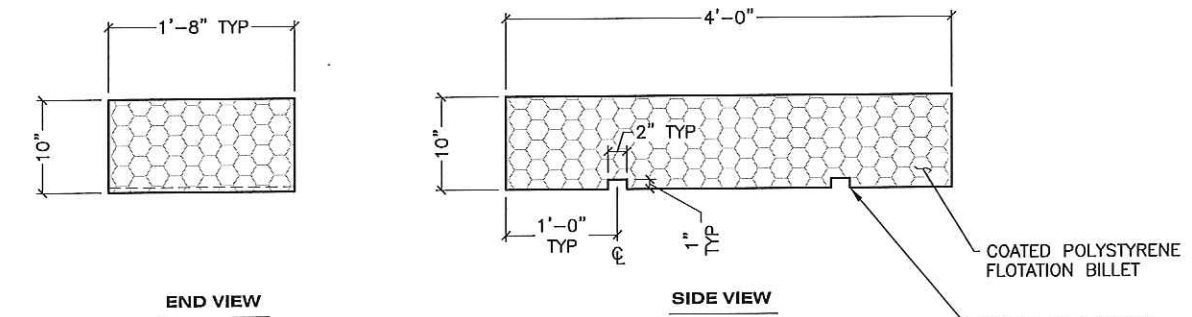
DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION									
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353									
	RESERVE FLOTATION BILLETS									
CHECKED BY: K. MILLER	PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\35 - RESERVE FLOTATION BILLETS.DWG	YEAR	SHEET NO.	TOTAL SHEETS						
DRAWN BY: STAFF	TAB: 35 Wednesday, January 06, 2016 3:05:41 PM	68353	2016 35	41						
<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION				PROJECT DESIGNATION		
NO.	DATE	DESCRIPTION								



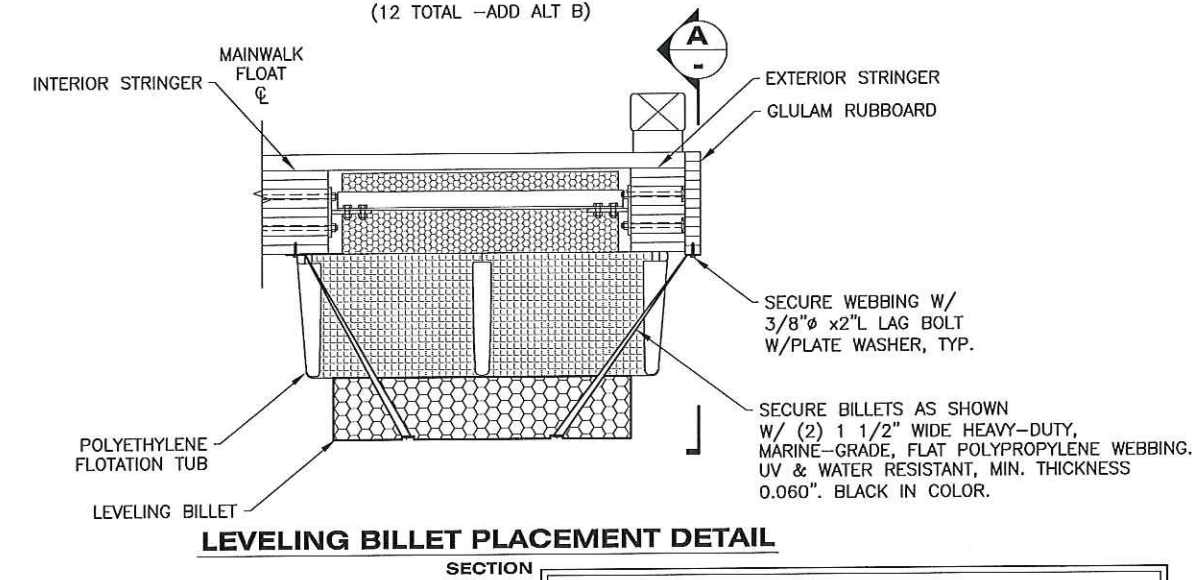
RESERVE BILLET - TYPE C (GANGWAY FLOAT)
(4 TOTAL)



RESERVE BILLET - TYPE D (GANGWAY FLOAT)
(4 TOTAL)

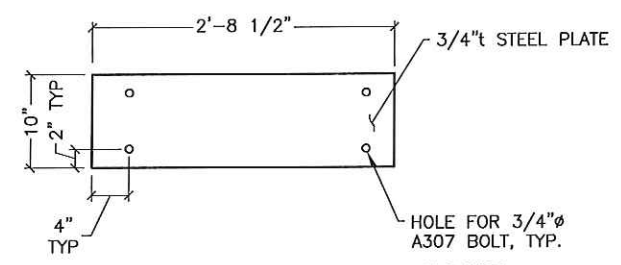


LEVELING BILLET
(8 TOTAL -BASE BID)
(10 TOTAL -ADD ALT A)
(12 TOTAL -ADD ALT B)



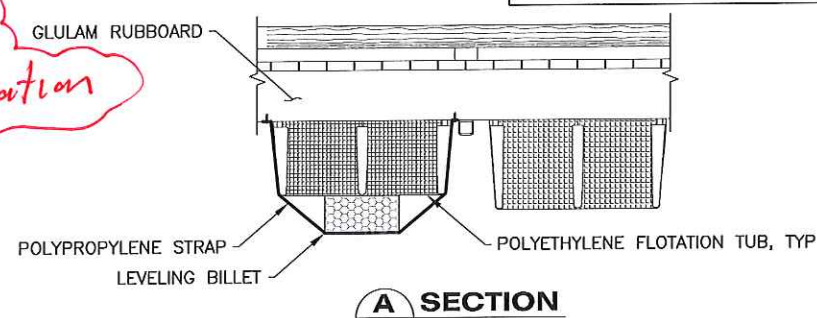
LEVELING BILLET PLACEMENT DETAIL

NOTES:
1. BILLET ATTACHMENT WEBBING SHALL BE PULLED TAUT PRIOR TO SECURING.
2. WEBBING SHALL NOT BE ATTACHED TO THE EXTERIOR STRINGERS.
3. LEVELING BILLET ATTACHMENT AT SEAPLANE FLOAT AND GANGWAY LANDING FLOAT SIMILAR.



GANGWAY FLOAT COUNTERWEIGHT
(12 TOTAL) ~69 LBS EACH

see sheet 42 for billet configuration



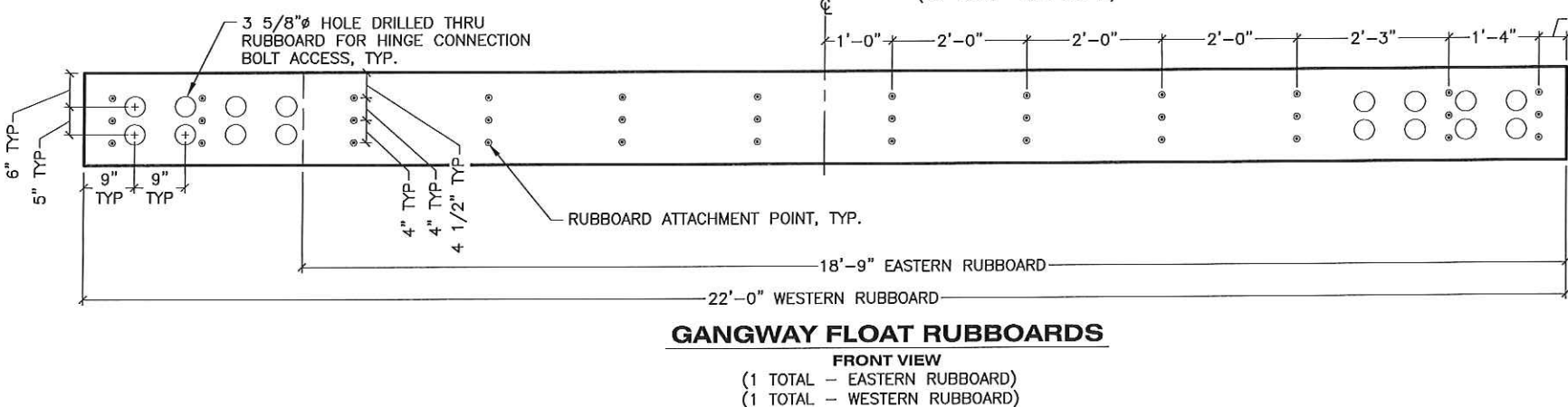
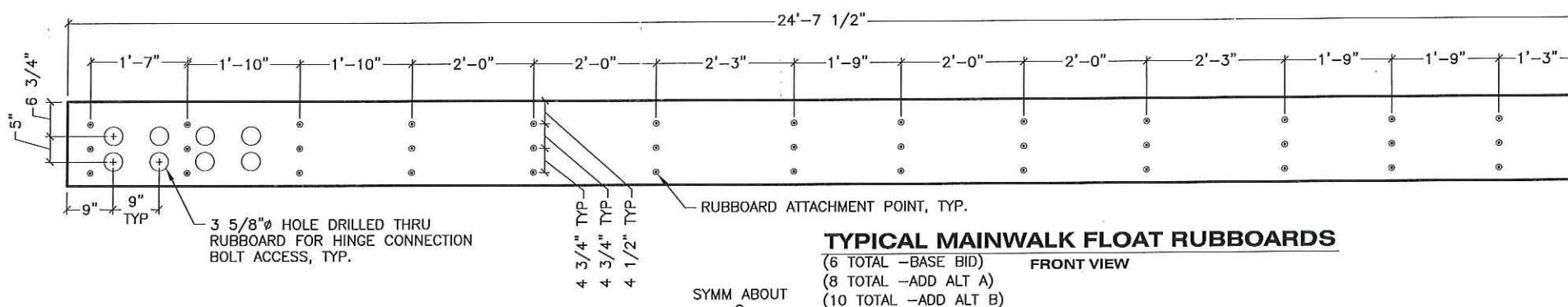
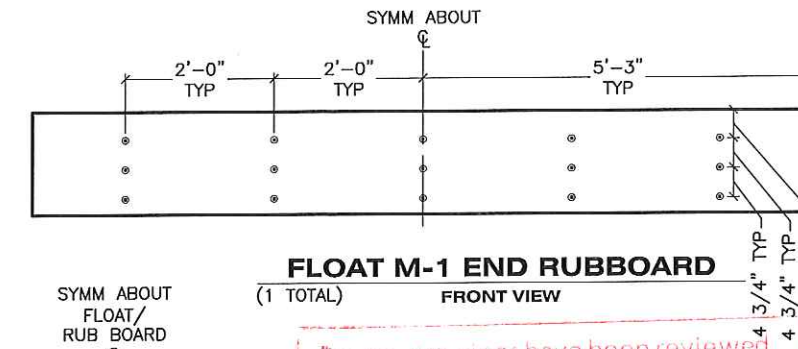
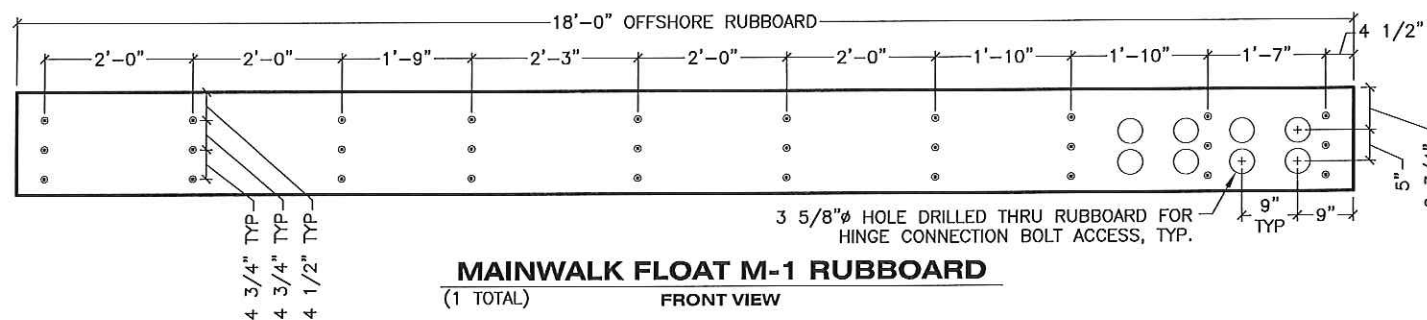
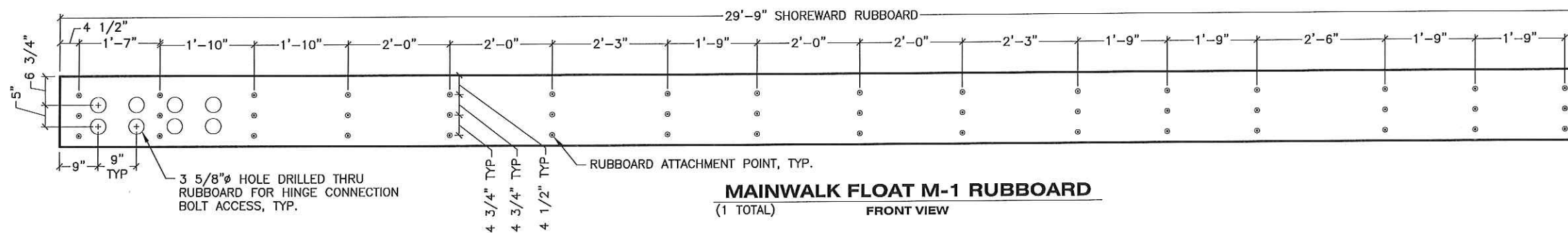
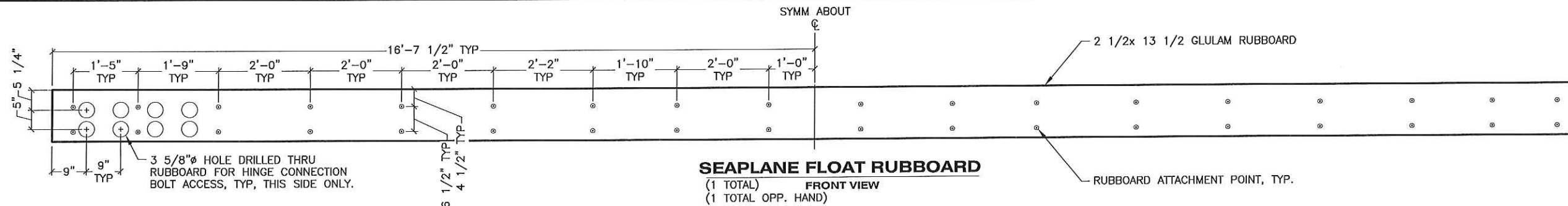
A SECTION

NOTES:
1. ALL BILLETS ARE CLOSED-CELL, EXPANDED POLYSTYRENE (EPS) COATED ON ALL SIDES WITH A SEAMLESS POLYUREA COATING PER SPECIFICATIONS. POLYSTYRENE SHALL BE CUT TO FINAL SHAPE PRIOR TO APPLYING POLYUREA COATING.
2. GENERAL BILLET LAYOUT AND DIMENSIONS SHOWN. CONTRACTOR TO DETERMINE FINAL GEOMETRY AND DIMENSIONS, AND SUBMIT TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
3. THE OVERALL BILLET DIMENSIONS SHOWN ARE FINAL DIMENSIONS OF BILLET WITH POLYUREA COATING.
4. THE BILLETS ARE INTENDED TO BE SLID UP IN-BETWEEN FLOAT FRAMING MEMBERS. A HORIZONTAL CLEARANCE OF 1/4\"/>

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE *Donna Palmer* Date *12/4/16*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOAST REGION									
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353									
	RESERVE FLOTATION BILLETS									
CHECKED BY: K. MILLER	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS						
DRAWN BY: STAFF	68353	2016	36	41						
PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\36 - RESERVE FLOTATION BILLETS.DWG TAB: 36 Wednesday, January 06, 2016 3:05:55 PM MISTY L. BUTLER										
<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					NO.	DATE	DESCRIPTION			
NO.	DATE	DESCRIPTION								



Recent drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE *Dawn Pule* Date *12/6/16*

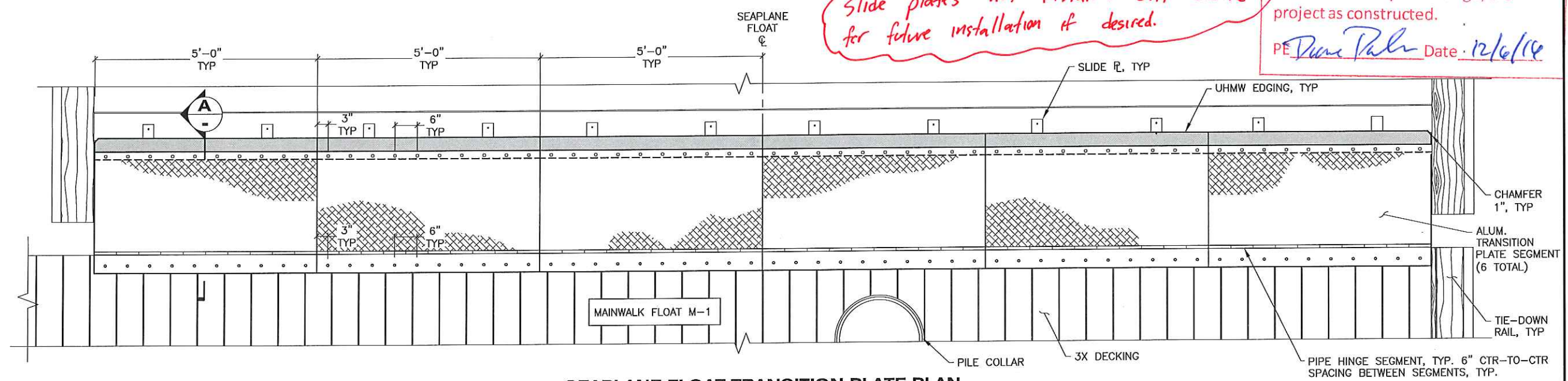
NOTES:
 1. ALL RUBBOARDS ARE 2 1/2" x 16 1/2" GLULAM, U.O.N.
 2. ATTACH RUBBOARDS WITH 3/8" x 6" L LAG BOLTS WITH WASHER, CTSK, TYP. HOLES SHALL BE PREDRILLED.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

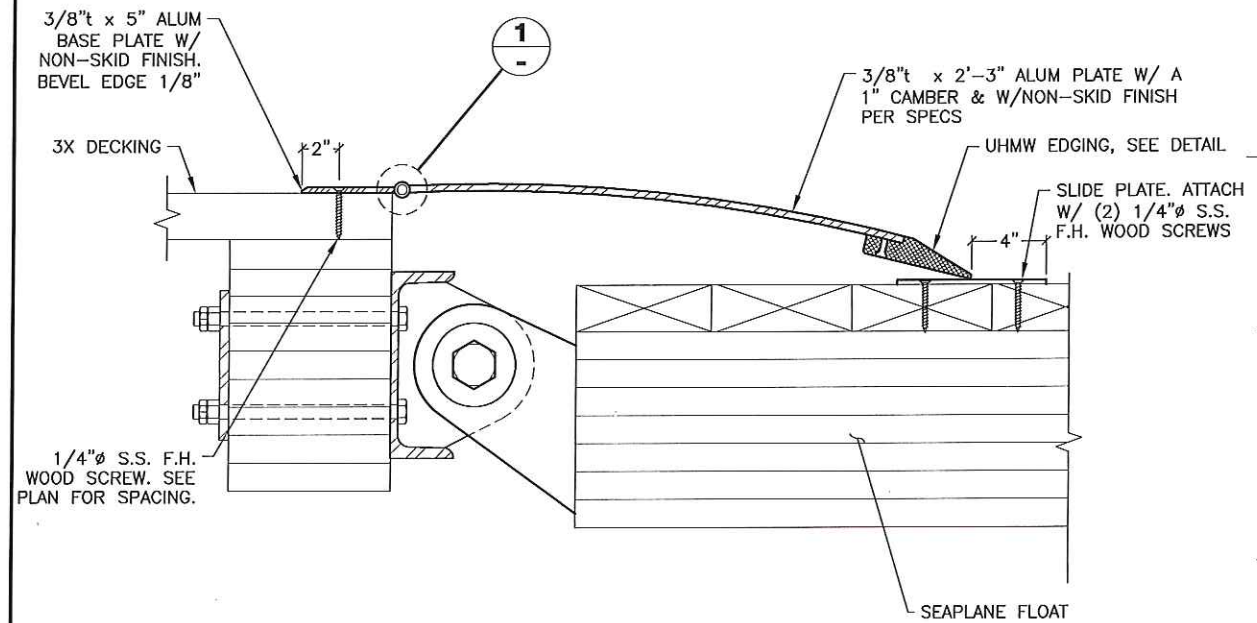
DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
RUBBOARD DETAILS				
CHECKED BY: K. MILLER	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
DRAWN BY: STAFF	68353	2016	37	41
PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\37 - RUBBOARD DETAILS.DWG				
TAB: 37 Wednesday, January 06, 2016 3:06:08 PM MISTY L. BUTLER				
REVISIONS				
NO.	DATE	DESCRIPTION		

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE Dave Palu Date: 12/6/19

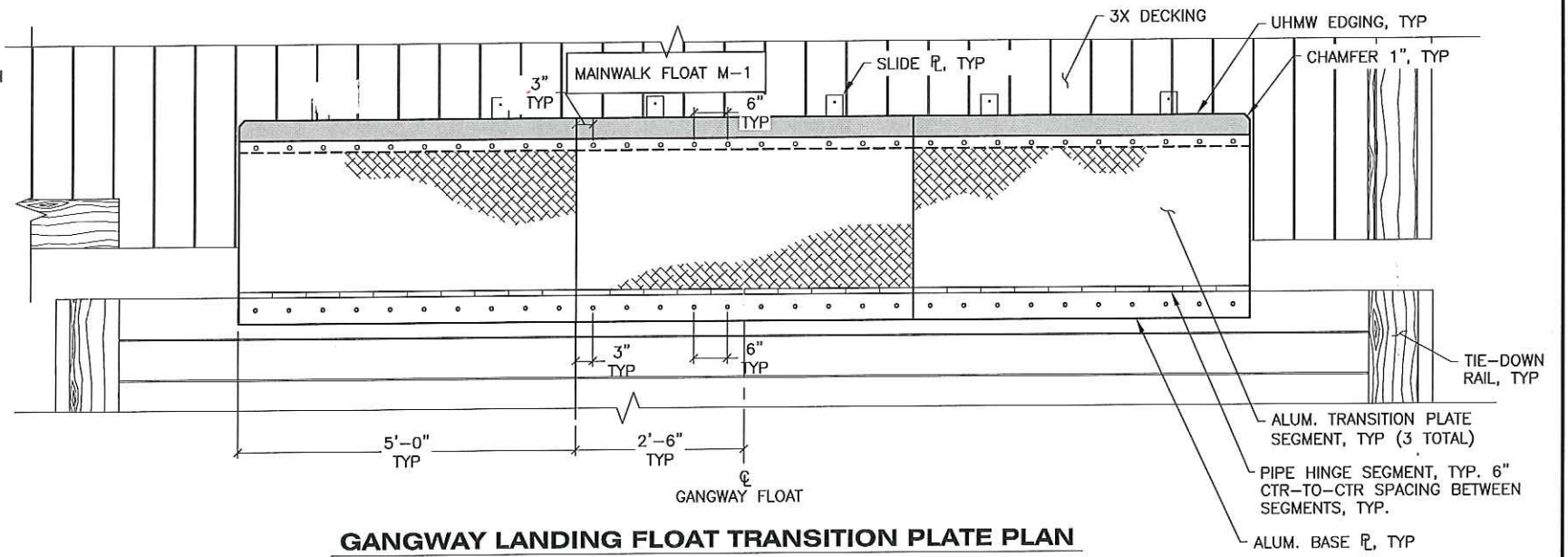
Slide plates not installed. Left onsite for future installation if desired.



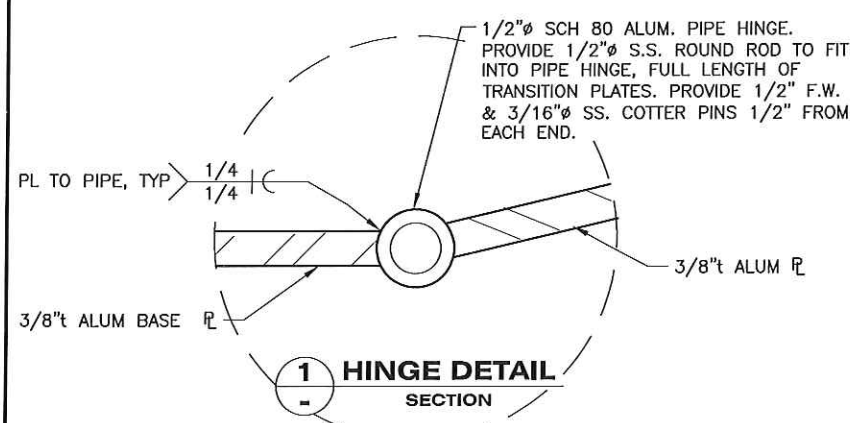
SEAPLANE FLOAT TRANSITION PLATE PLAN



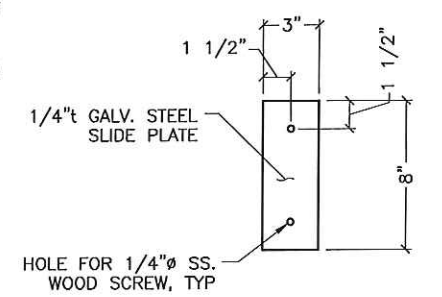
A TRANSITION PLATE INSTALLED ELEVATION
 NOTE: TRANSITION PLATE TO GANGWAY LANDING FLOAT SIMILAR.



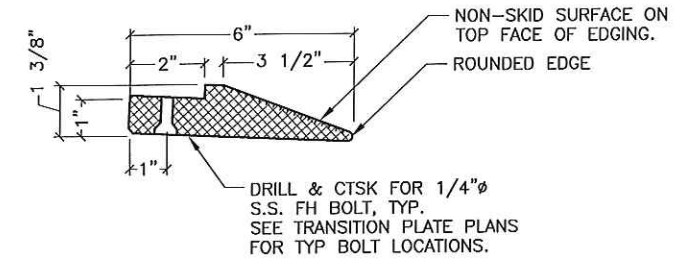
GANGWAY LANDING FLOAT TRANSITION PLATE PLAN



1 HINGE DETAIL SECTION



B SLIDE PLATE DETAIL (18 TOTAL)



UHMW EDGING DETAIL SECTION

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER

CHECKED BY: K. MILLER

DRAWN BY: STAFF

PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\38 - TRANSITION PLATE DETAILS.DWG

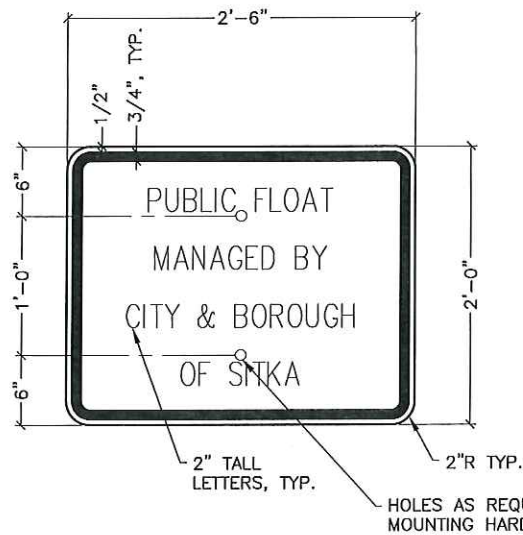
TAB: 38 Wednesday, January 06, 2016 3:06:17 PM MISTY L. BUTLER

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHCOAST REGION

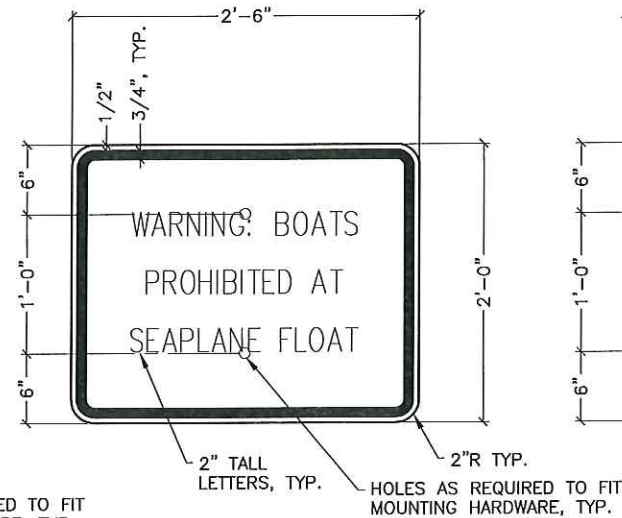
BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353

TRANSITION PLATE DETAILS

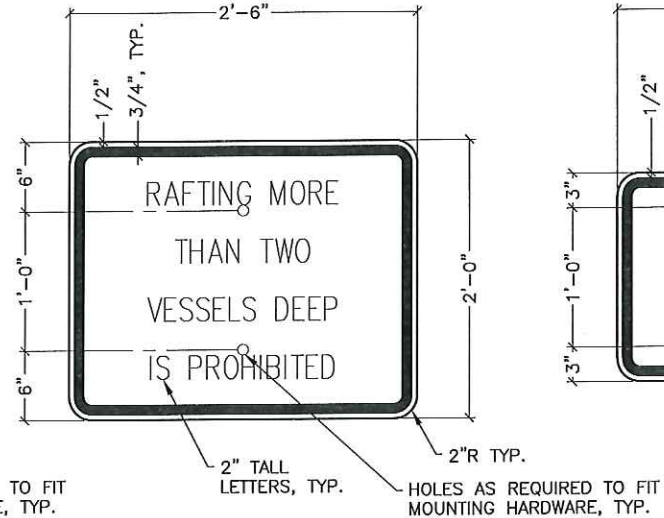
NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			68353	2016	38	41



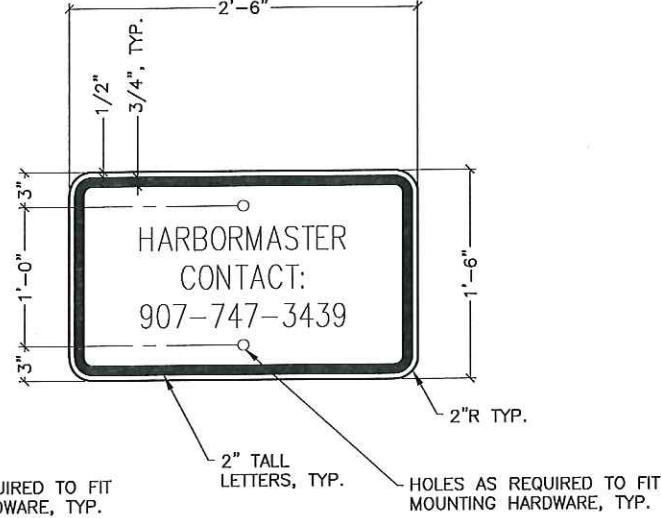
SIGN A
(2 TOTAL)



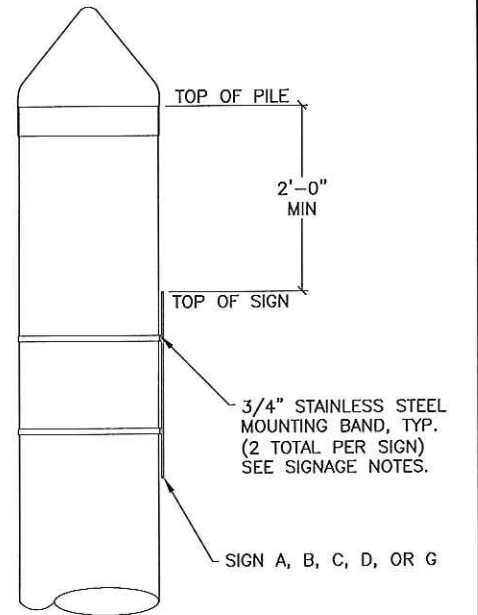
SIGN B
(1 TOTAL)



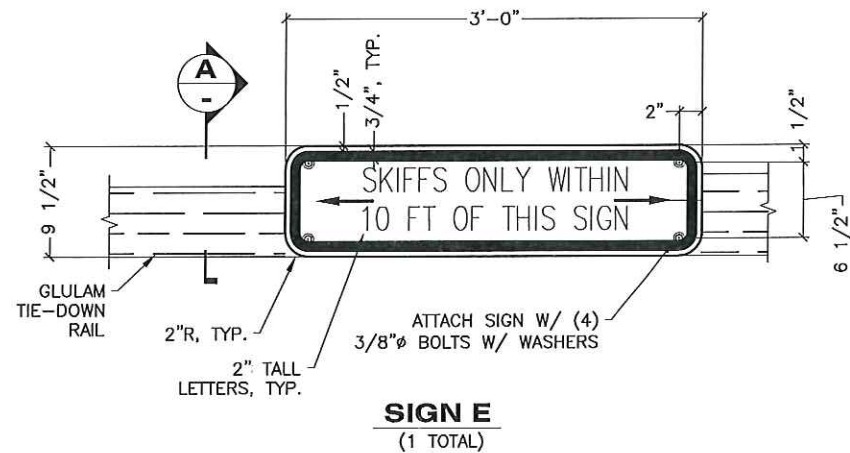
SIGN C
(1 TOTAL -BASE BID)
(2 TOTAL -ADD ALT A)



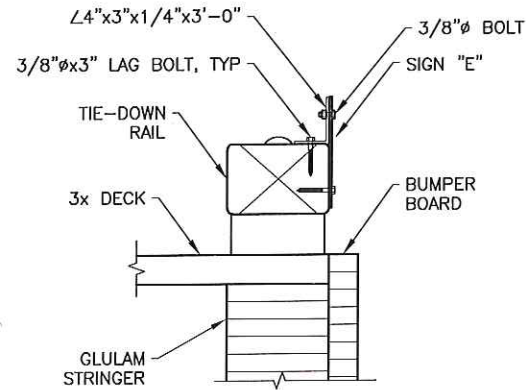
SIGN D
(2 TOTAL)



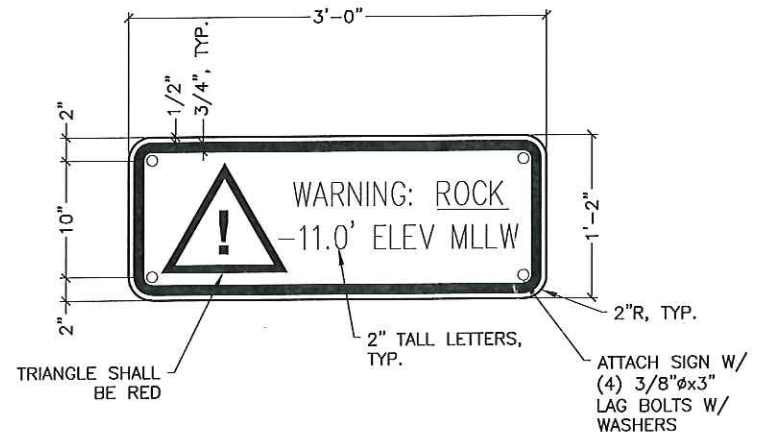
MOUNTING DETAIL
SIDE VIEW



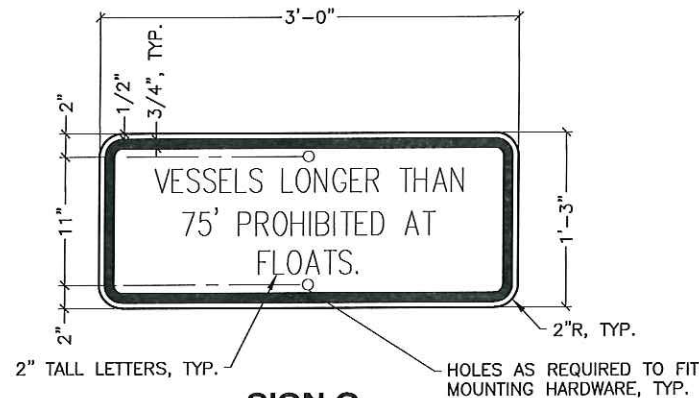
SIGN E
(1 TOTAL)



A SECTION



SIGN F
(1 TOTAL)



SIGN G
(1 TOTAL -BASE BID)
(2 TOTAL -ADD ALT A)

SIGN NOTES

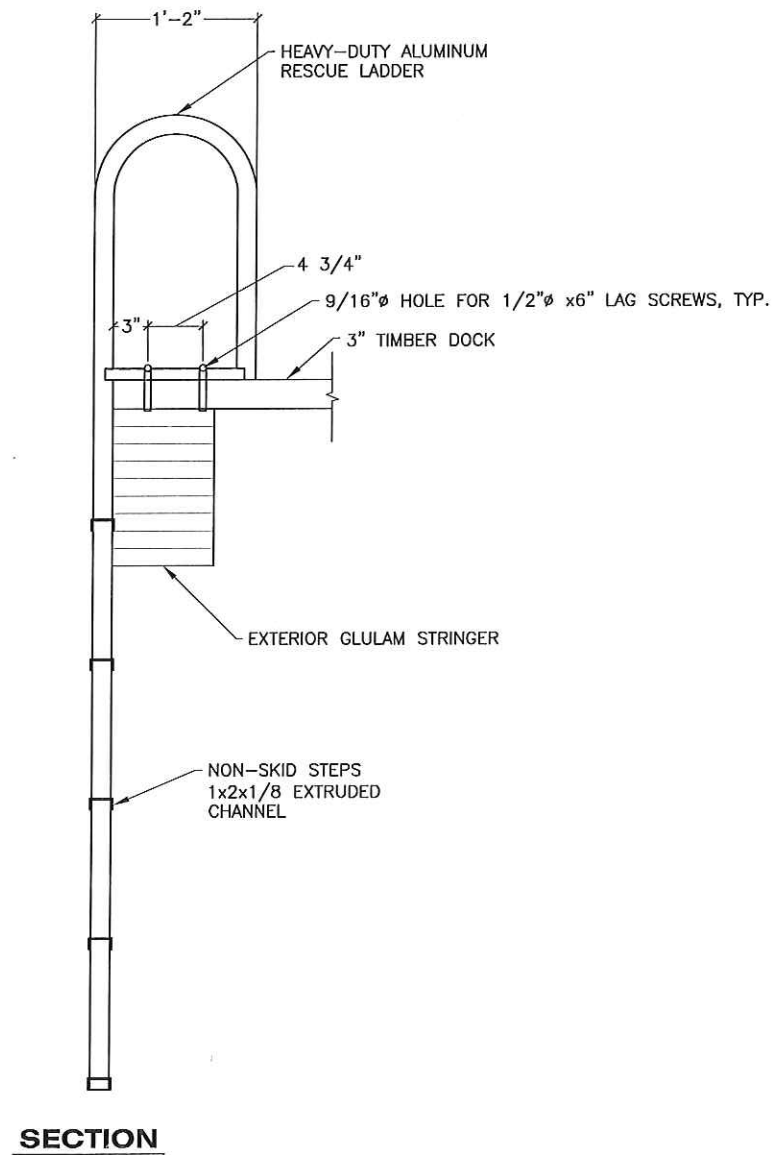
- INSTALL SIGNS TO BE VISIBLE TO APPROACHING TRAFFIC, AT LOCATIONS AND ORIENTATION SHOWN ON SITE PLAN AND AS DIRECTED BY THE ENGINEER.
- SIGNS SHALL HAVE BLACK LEGEND ON WHITE BACKGROUND. SIGN FABRICATION AND MATERIALS SHALL ALSO CONFORM TO SECTION 615 OF THE STANDARD SPECIFICATIONS. SIGN LETTERING SHALL CONFORM TO THE SIZE AND STYLE AS SHOWN IN THE PLANS AND THE ALASKA SIGN DESIGN SPECIFICATIONS (ASDS).
- AFFIX SIGNS A, B, C, D & G TO STEEL PILES WITH 2 EACH, 3/4-INCH WIDE STAINLESS STEEL BANDS PER SIGN AND ASSOCIATED MOUNTING HARDWARE TO MATCH. 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.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

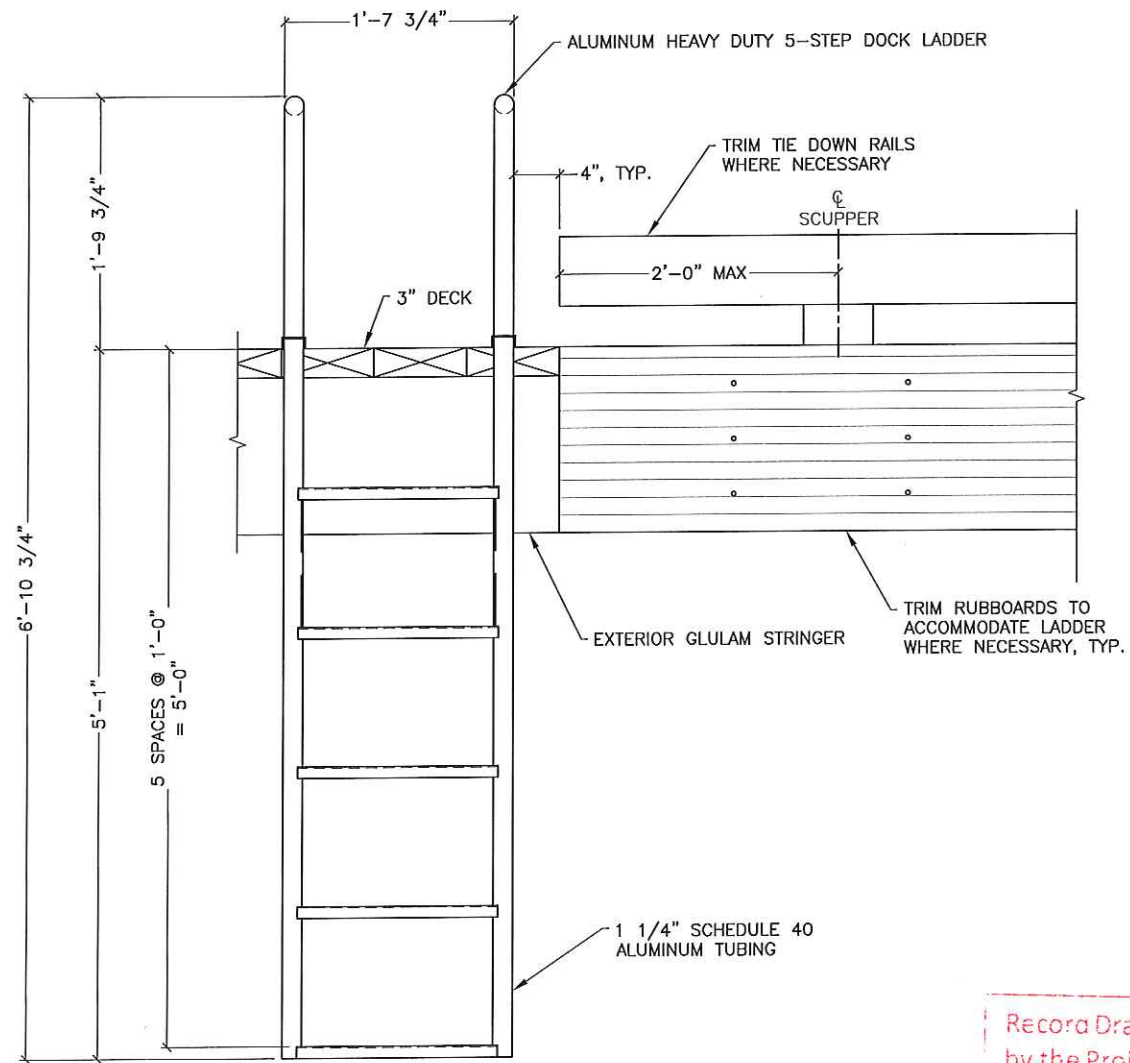
PE *Pam Palu* Date 12/6/14

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION									
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353									
	SIGNAGE DETAILS									
CHECKED BY: K. MILLER	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS						
DRAWN BY: STAFF	68353	2016	39	41						
PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\39 - SIGNAGE DETAILS.DWG TAB: 39 Wednesday, January 06, 2016 3:06:27 PM MISTY L. BUTLER										
<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					NO.	DATE	DESCRIPTION			
NO.	DATE	DESCRIPTION								



SECTION



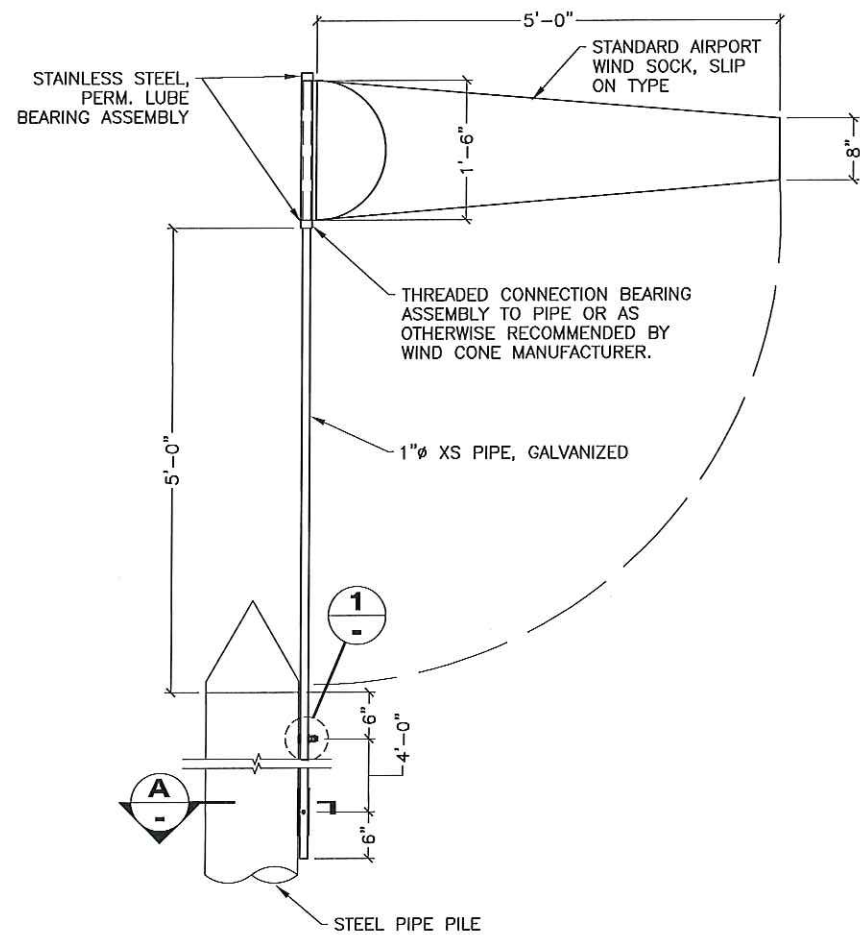
FRONT

RESCUE LADDER
(3 TOTAL)

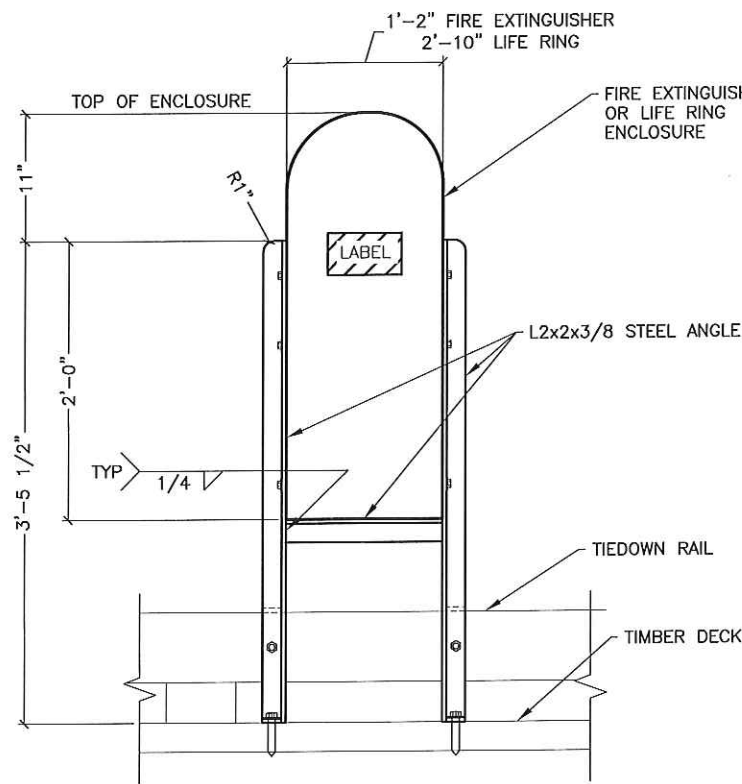
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
Paul Pal Date 12/6/16

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

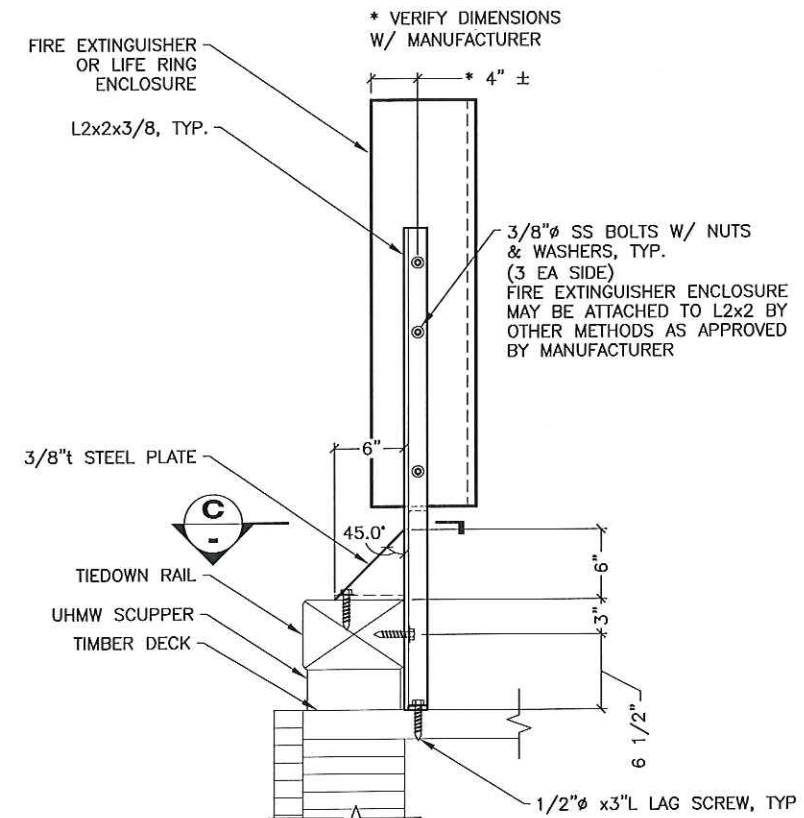
DESIGNED BY: M. BUTLER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
		BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
		RESCUE LADDER			
CHECKED BY: K. MILLER		PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\40 - RESCUE LADDER.DWG			
DRAWN BY: STAFF		TAB: 40 Wednesday, January 06, 2016 3:06:37 PM MISTY L. BUTLER			
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	68353	2016 40	41



**WIND SOCK
ELEVATION**



FRONT

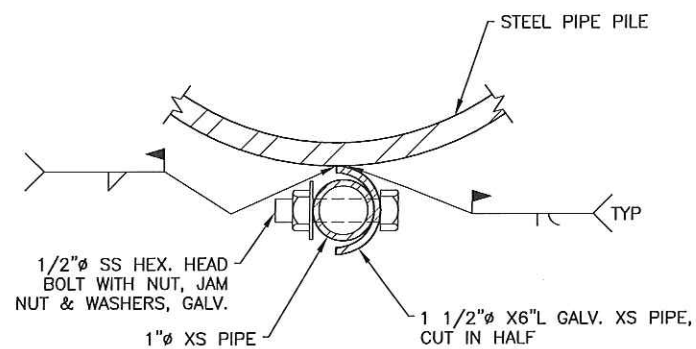


SIDE

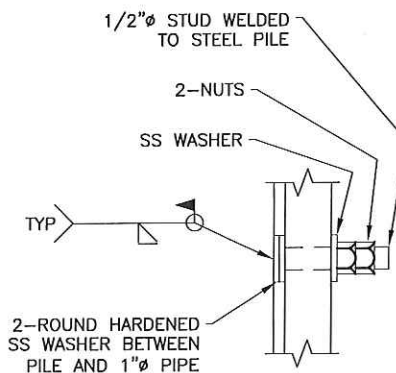
FIRE EXTINGUISHER / LIFE RING STATION

NOTES:

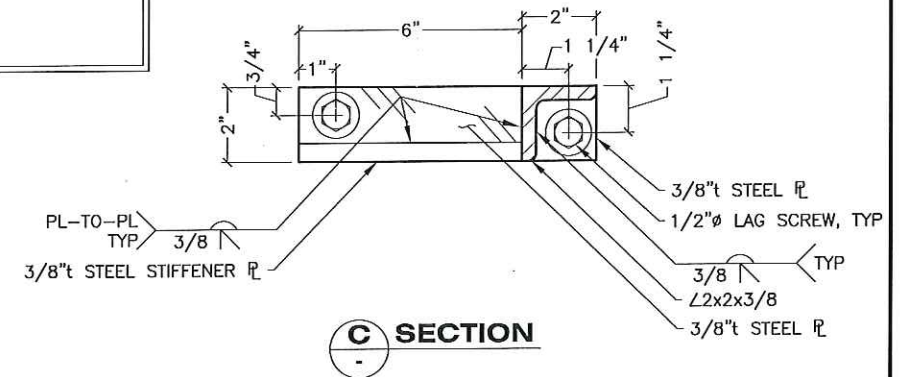
1. PROVIDE 20 LB. FIRE EXTINGUISHERS RATED FOR 2A, 20-B.C. & 30" RING W/ 90' ROPE, AS REQUIRED. (LOCATE WHERE NOTED ON SHEET 4 AND AS OTHERWISE DIRECTED BY THE ENGINEER). EXTINGUISHERS & LIFE RING AND ROPE SHALL BE INSTALLED IN AN APPROVED ENCLOSURE WITH A NON-LOCKING T HANDLE AND S.S. HINGES. HOT DIP GALVANIZE FRAME AFTER FABRICATION.
2. MOUNT EXTINGUISHER A MIN. OF 6" ABOVE BOTTOM OF ENCLOSURE.



A SECTION



1 DETAIL



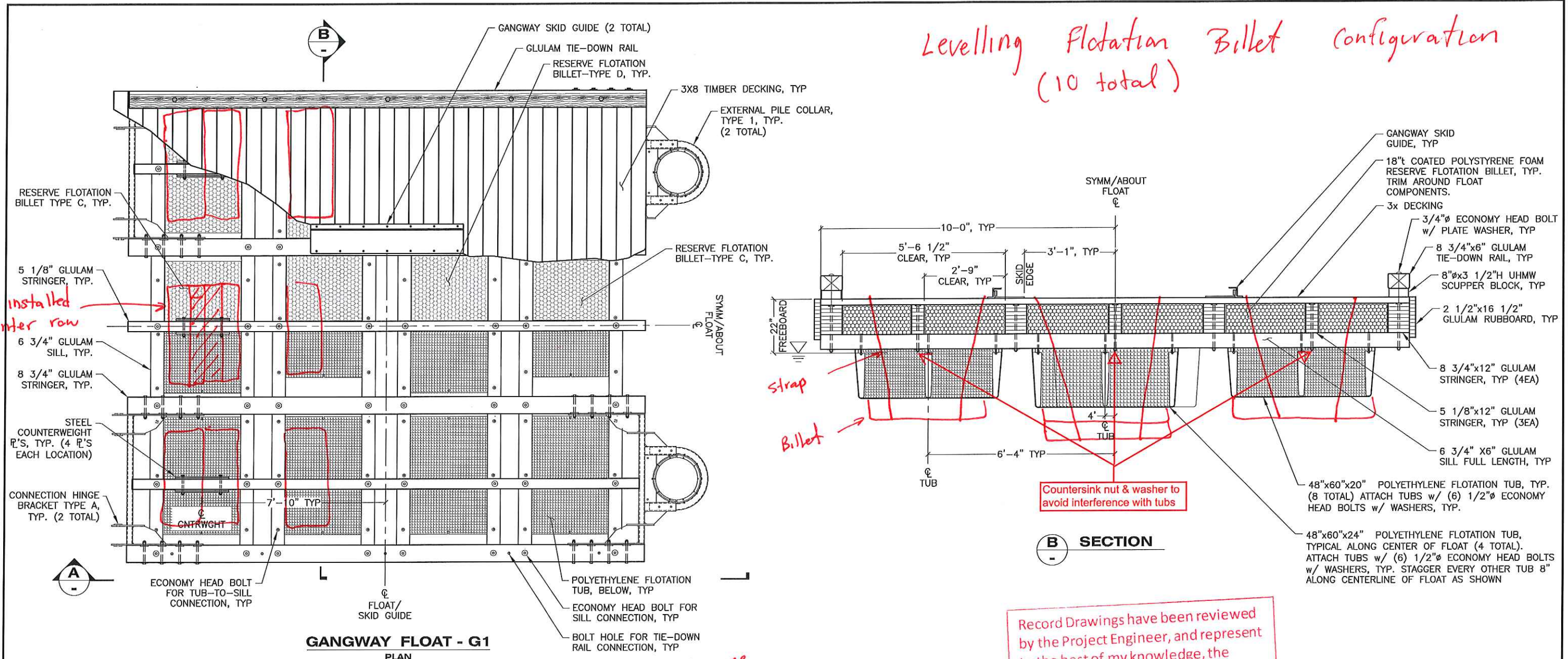
C SECTION

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE *Dave Pe...* Date *12/6/14*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION			
	BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353			
	MISCELLANEOUS DETAILS			
CHECKED BY: K. MILLER	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
DRAWN BY: STAFF	68353	2016	41	41
PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\41 - MISCELLANEOUS DETAILS.DWG TAB: 41 Wednesday, January 06, 2016 3:06:49 PM MISTY L. BUTLER				
REVISIONS NO. DATE DESCRIPTION				

Levelling Flotation Billet Configuration (10 total)



3 billets installed along center row

Strap Billet

Countersink nut & washer to avoid interference with tubes

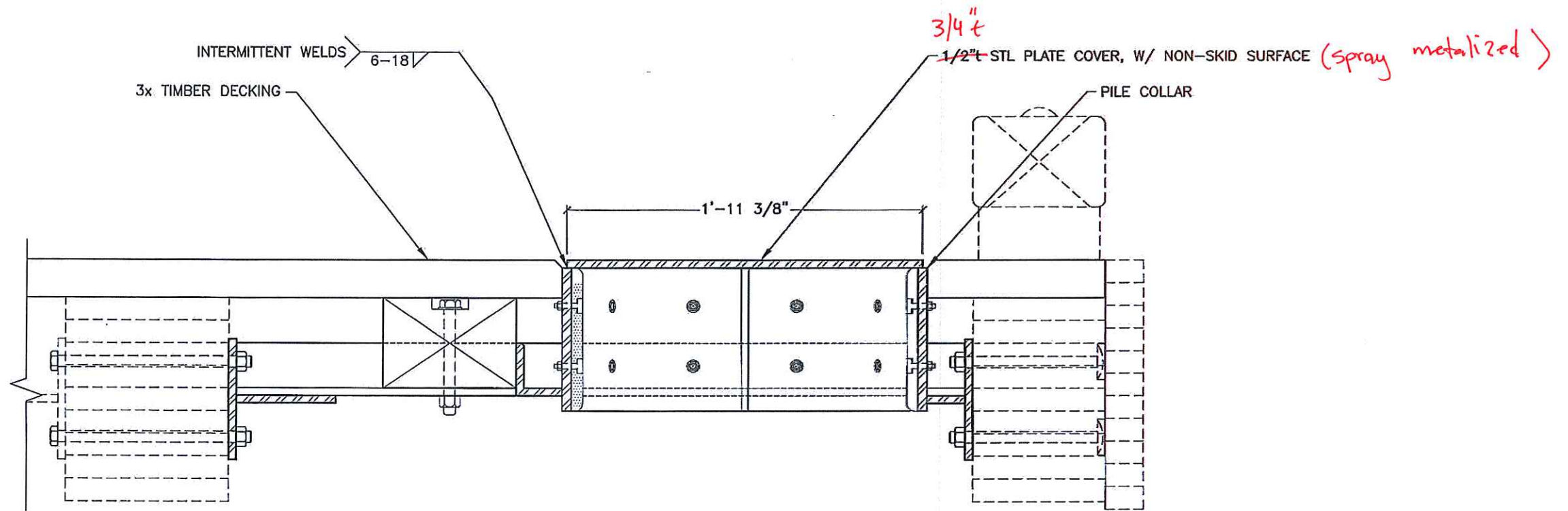
*Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE Dame Pale Date 1/6/17*

(2) 1/4" screws (SS) straps not installed per plan because divers couldn't access stringers.

Triple stacked in center only

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: M. BUTLER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOST REGION												
		BARANOF WARM SPRINGS HARBOR IMPROVEMENTS PROJECT #68353												
CHECKED BY: K. MILLER		GANGWAY FLOAT - G1 PLAN & ELEVATION												
DRAWN BY: STAFF		PATH: Q:\SIT\68353\MF\PLANSET\8. FINAL -JAN 2016\16 - GANGWAY FLOAT PLAN & ELEV.DWG TAB: 16 Wednesday, January 06, 2016 2:50:13 PM MISTY L. BUTLER												
<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS			NO.	DATE	DESCRIPTION				PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
REVISIONS														
NO.	DATE	DESCRIPTION												
		68353	2016	16	41									



A SECTION

Pile AZ Hoop Cover

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
 PE Dani Palu Date 1/6/17