RED LINE.

State of Alaska

Department of Transportation and Public Facilities Southcoast Region

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M. Thurmond Date 11/13/2017

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

Cody Sabo

April 28, 2017

9A-GANGWAY ASSEMBLY

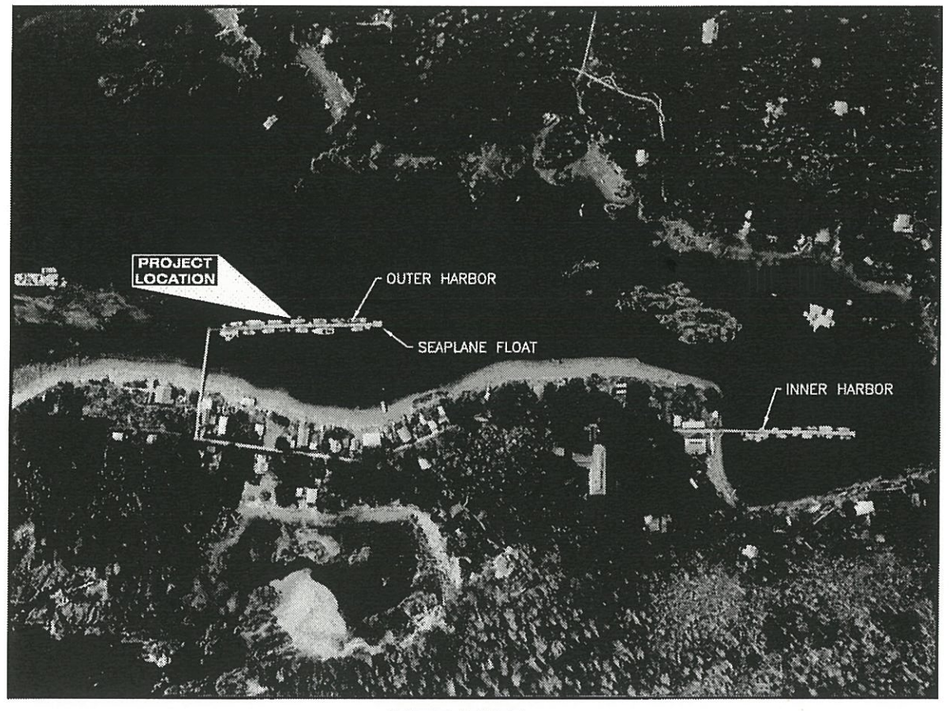
PORT ALEXANDER OUTER HARBOR IMPROVEMENTS

PORT ALEXANDER, ALASKA

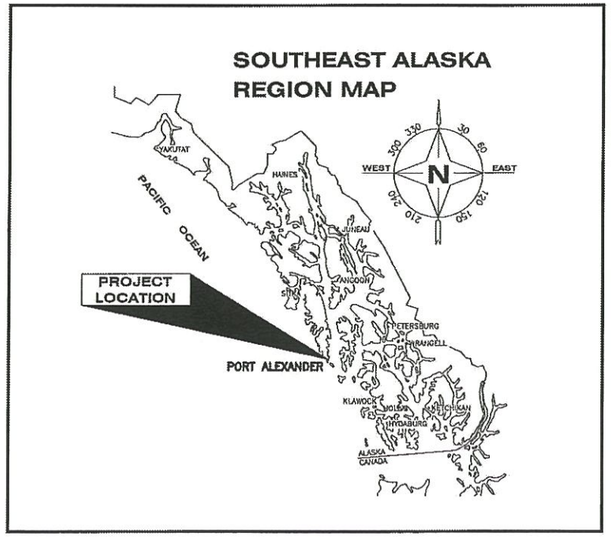
PROJECT No. Z835040000

AS-BUILTS
CONTRACTOR: WESTERN DOCK AND BRIDGE LLC
START DATE: AUGUST 20, 2017
COMPLETION DATE: SEPTEMBER 25, 2018
PROJECT ENGINEER: MIKE EDWARDS (WEI)

TIDAL DATA	
HTL	+15.0'
MHW	+10.1'
MLLW	0.0'
ELW	−4.3'



SITE MAP



REGIONAL MAP

SHEET INDEX

SHEET NO.	DESCRIPTION
01	TITLE SHEET
02	ESTIMATE OF QUANTITIES & GENERAL NOTES
03	DEMOLITION PLAN
04	NEW SITE PLAN
05	APPROACH DOCK PLAN
06–07	APPROACH DOCK DETAILS
08	TRESTLE CROSS BRACING REPAIR
09	EXISTING GANGWAY DETAILS
10–11	10' x 400' FLOAT LAYOUT
12	50' FLOAT MODULE
13–14	FLOAT DETAILS
15	20' x 25' SEAPLANE FLOAT
16	TYPICAL SEAPLANE FLOAT MODULE
17	SEAPLANE FLOAT HINGE
18	SEAPLANE FLOAT CROSS SILL CONNECTORS
19	MISCELLANEOUS DETAILS
20	3–PILE DOLPHIN
21	TRANSITION PLATE DETAILS
22	WATERLINE DETAILS
23	INNER HARBOR WORK

PATH: O:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\01 – TITLE SHEET.DWG TAB:01

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

STATE OF ALASKA 49th DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER

APPROVED: 3/16/17
REGIONAL PRE–CONSTRUCTION ENGINEER — DATE
L. PAT CARROLL, P.E.

FOR APPROVED: 3/17/17
DIRECTOR, SOUTHCOAST REGION — DATE
MICHAEL J. COFFEY

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

CONSTRUCTION PROJECT MANAGER — DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z835040000	2017	01	23

GENERAL NOTES

DESIGN SPECIFICATIONS
1. PER CONTRACT DOCUMENTS FOR Z835040000
2. AISC STEEL CONSTRUCTION MANUAL 14TH ED. ASD.
3. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS
4. AWS STRUCTURAL WELDING CODE D1.1, 2010
5. NDS FOR WOOD CONSTRUCTION, ASD/LRFD, 2012.

OTHER INFORMATION
1. REFERENCE AS-BUILT DRAWINGS FOR EXISTING TIMBER FLOAT SYSTEM AND APPROACH TRESTLE DETAILS NOT SHOWN

MATERIALS
STEEL:
- HSS- ASTM A500 GRADE B
- PILING- ASTM A252 GRADE 3 OR EQUAL, STRAIGHT SEAM
- PIPE- ASTM A53, GRADE B, TYPE E OR S
- SHAPES- ASTM A572 GRADE 50
- PLATES- ASTM A36, UNLESS OTHERWISE NOTED
- STAINLESS- ASTM A276 TYPE 316
- PILE TIPS- APF-0-14000 OR APF 0-14001 DRIVE SHOES OR APPROVED EQUAL. DRIVE SHOES ARE REQUIRED ON ALL PILING.
- COATINGS- ALL STEEL FABRICATION & HARDWARE SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN CONFORMANCE WITH ASTM A123 AND A153.

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

BOLTS AND FASTENERS:
- STEEL-TO-STEEL: ASTM A325, PRETENSIONED, U.O.N.
- TIMBER-TO-STEEL: ASTM A307, SNUG-TIGHTENED, U.O.N.
- TIMBER-TO-TIMBER: 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 RULLES. ALL SAWN TIMBER SHALL BE S4S EXCEPT DECKING (MILLED S12S3)

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

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

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

TIMBER TREATMENT
SAWN TIMBER BELOW DECK LEVEL TO BE TREATED WITH CREOSOTE, 20 PCF RETENTION. GLULAM TIMBER BELOW DECK LEVEL TO BE TREATED WITH CREOSOTE, 12 PCF RETENTION. DECKING, BULLRAILS, AND BUMPER BOARDS TO BE TREATED WITH ACZA, 0.6 PCF RETENTION.

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

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

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

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

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

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

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

RUBBER TIRE BUMPERS: TIRE BUMPERS SHALL BE OF 13-14 INCH NOMINAL RIM SIZE HAVING AN OUTSIDE DIAMETER OF 23-25 INCHES AND A TREAD WIDTH OF APPROXIMATELY 6-INCHES. TIRES SHALL GENERALLY BE OF UNIFORM APPEARANCE AND SIZE. ALL TIRES SHALL HAVE A MINIMUM OF 1/8-INCH OF TREAD. TIRES WITH STUDS, EXPOSED BELTING OR OTHER VISIBLE SIGNS OF DAMAGE WILL NOT BE ACCEPTED. PRE-DRILL HOLES FOR HARDWARE INSTALLATION.

LIMITATIONS OF OPERATIONS:

1. PROVIDE ADVANCE NOTICE AND COORDINATE ALL WORK WITH THE CITY OF PORT ALEXANDER. SEE SECTION 202 OF SPECIFICATIONS.
2. REFERENCE SECTION 108 OF THE SPECIFICATIONS FOR ADDITIONAL WORK LIMITATIONS NOT NOTED.

ABBREVIATIONS:

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

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edwards Date 11/12/2017

ESTIMATE OF QUANTITIES

ITEM NO.	PAY ITEM	UNIT	QUANTITY
	BASIC BID		
202 (1)	DEMOLITION AND REMOVAL	LS	ALL REQ'D
504 (1)	APPROACH DOCK PILE CAP	EA	2
504 (2)	3-PILE DOLPHIN CAP	LS	ALL REQ'D
504 (3)	6'x65' GANGWAY, SALVAGED	LS	ALL REQ'D
504 (4)	TRANSITION PLATES	LS	ALL REQ'D
505 (1)	16" x 0.500" PIPE PILE, FURNISHED	LF	1121
505 (2)	16" x 0.500" PIPE PILE, DRIVEN	EA	18
505 (3)	12 3/4" PIPE PILE, SALVAGED AND RE-DRIVEN	EA	3
505 (4)	DRILLED ROCK SOCKET, FURNISHED	LS	ALL REQ'D
505 (5)	DRILLED ROCK SOCKET, INSTALLED	EA	~~10~~ 6
505 (6)	100 LB PILE ANODE	EA	31
505 (7)	WIND SOCK	EA	1
506 (1)	APPROACH DOCK SUPERSTRUCTURE	LS	ALL REQ'D
506 (2)	APPROACH DOCK FENDER PILES	LS	ALL REQ'D
506 (3)	TIMBER TRESTLE MODIFICATIONS	LS	ALL REQ'D
506 (4)	10'X350' TIMBER MOORING FLOAT	LS	ALL REQ'D
506 (5)	20'x25' TIMBER SEAPLANE FLOAT	LS	ALL REQ'D
506 (6)	LEVELING FLOTATION FURNISHED 5"X20"X4'-6"L	EA	6
506 (7)	LEVELING FLOTATION, INSTALLED	EA	~~6~~ 0
506 (8)	FIRE EXTINGUISHER STATION	EA	2
506 (9)	LIFE RING STATION	EA	2
506 (10)	RESCUE LADDER	EA	3
615 (7)	SIGNS	LS	ALL REQ'D
627 (1)	WATER SYSTEM	LS	ALL REQ'D
640 (1)	MOBILIZATION & DEMOBILIZATION	LS	ALL REQ'D
640 (4)	WORKER MEALS & LODGING, OR PER DIEM	LS	ALL REQ'D
642 (1)	CONSTRUCTION SURVEYING	LS	ALL REQ'D
644 (1)	FIELD OFFICE	LS	ALL REQ'D
644 (6)	VEHICLES (SKIFF)	LS	ALL REQ'D
647 (1)	PROTECTED SPECIES OBSERVER	LS	ALL REQ'D
	ADDITIVE ALTERNATE A		
505 (1A)	16" x 0.500" PIPE PILE, FURNISHED	LF	123
505 (2A)	16" x 0.500" PIPE PILE, DRIVEN	EA	2
505 (4A)	100 LB. PILE ANODE	EA	2
506 (4A)	10'X50' TIMBER MOORING FLOAT	LS	ALL REQ'D
640 (1A)	MOBILIZATION & DEMOBILIZATION	LS	ALL REQ'D
640 (4A)	WORKER MEALS & LODGING, OR PER DIEM	LS	ALL REQ'D

PILE DATA

PILE ID	LOCATION	PILE SIZE	APPROX MUDLINE ELEV	EST PENE-TRATION	EST TIP ELEV	CUTOFF ELEV	EST PILE LENGTH
1	APPROACH DOCK	16"ø x 1/2"	-11'	20'	-31.0'	+13'	44'
2			-12'	20'	-32.0'	+13'	45'
3			-13'	20'	-33.0'	+13'	46'
4			-12'	20'	-32.0'	+13'	45'
5	10'x350' MOORING FLOAT		-17'	20'	-37.0'	+24'	61'
6			-19'	20'	-39.0'	+24'	63'
7			-21'	20'	-41.0'	+24'	65'
8			-23'	20'	-43.0'	+24'	67'
9			-25'	20'	-45.0'	+24'	69'
10			-26'	20'	-46.0'	+24'	70'
11			-26'	20	-46.0'	+24'	70'
12			-27'	20'	-47.0'	+24'	71'
13			-27'	20'	-47.0'	+24'	71'
14			-26'	20'	-46.0'	+24'	70'
15			-24'	20'	-44.0'	+24'	68'
16			-23'	20'	-41.0'	+24'	65'
17			-22'	20'	-42.0'	+24'	66'
18			-21'	20'	-41.0'	+24'	65'
						BASIC BID - 16'Ø TOTAL	1121'
19	10'x50' MOORING FLOAT (ALT. A)	16"ø x 1/2"	-19'	20'	-39.0'	+24'	63'
20			-16'	20'	-36.0'	+24'	60'
						ADDITIVE ALTERNATE A - 16'Ø TOTAL	123'
21	3-PILE DOLPHIN	12-3/4"ø x 1/2" (SALVAGED)	-4'	15'	-19.0'	+15.0'	34'
22			-2'	15'	-17.0'	+19.0'	36'
23			-6'	15'	-21.0'	+19.0'	40'
						BASIC BID - SALVAGED 12 3/4'Ø TOTAL	110'

NOTE: DRIVE ALL PILES TO ESTIMATED TIP ELEVATION OR INTO DRILLED ROCK SOCKET.

REFERENCE LEGEND

VIEW TITLE: X / #/## — VIEW NAME / VIEW DESCRIPTION
DRAWING TITLE/ SUBTITLE: VIEW NAME / VIEW DESCRIPTION
ELEVATION VIEW: X / #/##
SECTION VIEW: X / #/##
DETAIL CALLOUT: X / #/##
DETAIL TAG: X / #/##

ON SHEET WHERE VIEW OR DETAIL CALLOUT IS TAKEN:
- # SHEET NUMBER WHERE VIEW OR DETAIL IS LOCATED. DASH MARK WHEN ON THE SAME SHEET.
- ## SHEET NUMBER WHERE VIEW OR DETAIL CALLOUT IS TAKEN. DASH MARK WHEN ON THE SAME SHEET.

ON SHEET WHERE VIEW OR DETAIL IS LOCATED:
- # SHEET NUMBER WHERE VIEW OR DETAIL IS TAKEN. DASH MARK WHEN ON THE SAME SHEET
- ## SHEET NUMBER WHERE VIEW OR DETAIL CALLOUT IS LOCATED. DASH MARK WHEN ON THE SAME SHEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS
CHECKED BY: D. LOWELL
DRAWN BY: STAFF

STATE OF ALASKA 49th DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

PORT ALEXANDER OUTER HARBOR IMPROVEMENTS

ESTIMATE OF QUANTITIES & GENERAL NOTES

PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\02 - ESTIMATE_GEN NOTES.DWG
TAB: 02

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	02	23

EXISTING 3–PILE TIMBER DOLPHIN TO BE REMOVED

SALVAGE EXISTING LOAD LIMIT SIGN. RE–INSTALL ON NEW APPROACH DOCK.

NOAA TIDE GUAGE TO BE SALVAGED AND RELOCATED BY OTHERS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT NOAA AND COORDINATE PRIOR TO CONSTRUCTION.

EXISTING 12'x100' TIMBER FLOAT AND (3) 12–3/4" STEEL PILES TO BE REMOVED & SALVAGED

EXISTING 10'x300' TIMBER FLOAT TO BE REMOVED

EXISTING 16'x24' SEAPLANE FLOAT TO BE REMOVED

REMOVE EXISTING TRESTLE TO BENT 11, ±17' (SEE NOTE 1)

ROW

BENT 12

SALVAGE EXISTING 6'x65' GANGWAY

ATS 1083
LESSEE: CASCADE TOWING INC.
LESSOR: STATE OF AK

REST OF EXISTING TRESTLE TO REMAIN

LOCATION OF WATER LINE ATTACHMENT IS APPROXIMATE. TO BE VERIFIED BY CONTRACTOR

EXISTING 10'x50' SKIFF FLOAT TO BE REMOVED & SALVAGED.

EXISTING WATER LINE TO BE REMOVED WITH FLOAT SYSTEM.

EXISTING TIMBER/STEEL PILES (12) TO BE REMOVED. (1) STEEL PILE BROKEN OFF AT APPROX. –6.0 MLLW

-30

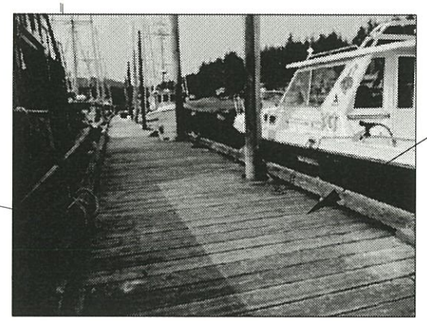
-25

ATS 1028
STATE OF AK

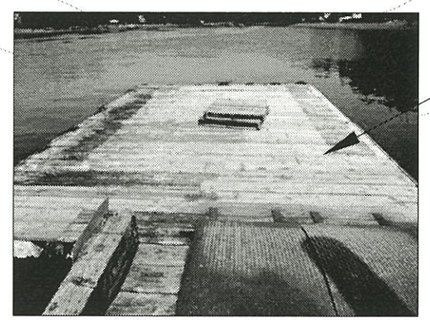
ROW

EXISTING TRESTLE DECK ELEV. +17.5'

BENT 1



REMOVE EXISTING TIMBER MOORING FLOATS

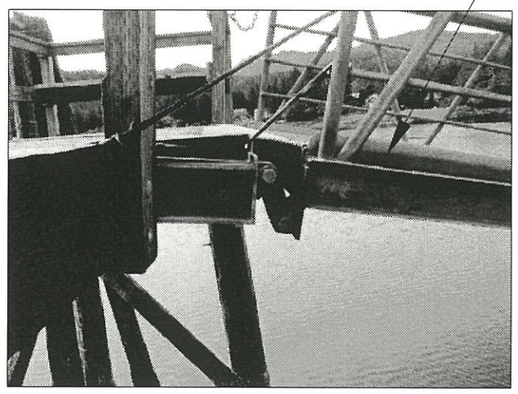


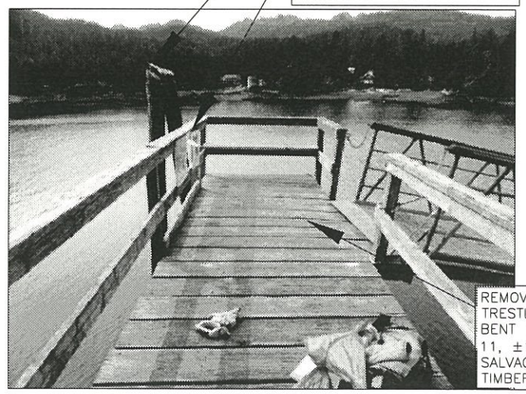
REMOVE EXISTING SEAPLANE FLOAT

REMOVE EXISTING 3–PILE TIMBER DOLPHIN

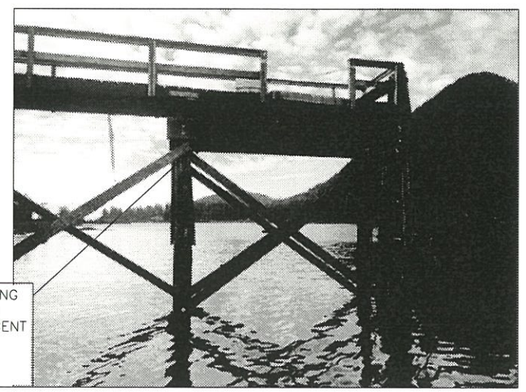
SALVAGE EXISTING LOAD LIMIT SIGN. RE–INSTALL ON NEW APPROACH DOCK.

SALVAGE EXISTING GANGWAY





REMOVE EXISTING TRESTLE FROM BENT 12 TO BENT 11, ±17'. SALVAGE ALL TIMBERS



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edwards Date 11/12/2017

LEGEND:

- EXISTING PILE
- PROPERTY LINE
- FACE OF SIGN
- # SIGN LETTER

20' 0 20' 40'
GRAPHIC SCALE (FT)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS
CHECKED BY: D. LOWELL
DRAWN BY: STAFF

STATE OF ALASKA
DAVID H. LOWELL
CE-12614
49th
REGISTERED PROFESSIONAL ENGINEER
3/17/17

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

PORT ALEXANDER OUTER HARBOR IMPROVEMENTS

DEMOLITION PLAN

PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\03 – DEMOLITION PLAN.DWG
TAB: 03

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	03	23

ATS 1028
STATE OF AK

BASIC BID
RE-INSTALL EXISTING
6x65' GANGWAY

BASIC BID
NEW 10'x350' TIMBER MOORING FLOAT

ADDITIVE ALTERNATE A
- NEW 10'x50' TIMBER MOORING FLOAT
- NEW 16"ø STEEL PIPE PILE TYP. (2) TOTAL

BENT 11

BASIC BID
TRESTLE CROSS BRACING REPAIR, SEE SHT. 08

BASIC BID
ATTACH NEW WATERLINE TO EXISTING 3/4" WATERLINE SUPPLY

BASIC BID
NEW 16"ø STEEL PIPE PILE, TYP. (14) TOTAL

NEW MOORING FLOAT ℄

BASIC BID
NEW 20'x25' TIMBER SEAPLANE FLOAT

ATS 1083
LESSEE: CASCADE TOWING INC.
LESSOR: STATE OF AK

EXISTING TRESTLE ℄

ROW

U.S.S 2010 TRACT A

BLOCK 5

BLOCK 4

BLOCK 3

BENT 1

65'-10" TO PILE 5

81.9°

GANGWAY & FLOAT ℄

11'-0"

25'-0"

ALIGNMENT LINE FOR 3-PILE DOLPHIN

BENT 10

BENT 9

BASIC BID
NEW 3-PILE STEEL DOLPHIN CONSTRUCTED FROM SALVAGED PILES

1
PLAN
TRESTLE TO NEW DOCK

NEW SITE PLAN
20' 0 20' 40'
GRAPHIC SCALE (FT)

LEGEND:
- EXISTING TIMBER PILE
- NEW PILE
- (SP) FLOAT SPLICE
- (W) WATER SPICKET
- (LR) LIFE RING CABINET
- (FE) FIRE EXTINGUISHER CABINET
- (#) NEW PILE ID
- PROPERTY LINE
- (WS) WIND SOCK
- RESCUE LADDER
- # FACE OF SIGN / SIGN LETTER

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edwards Date 11/12/2017

[redacted]

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS
CHECKED BY: D. LOWELL
DRAWN BY: STAFF

STATE OF ALASKA 749th DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER
3/17/17

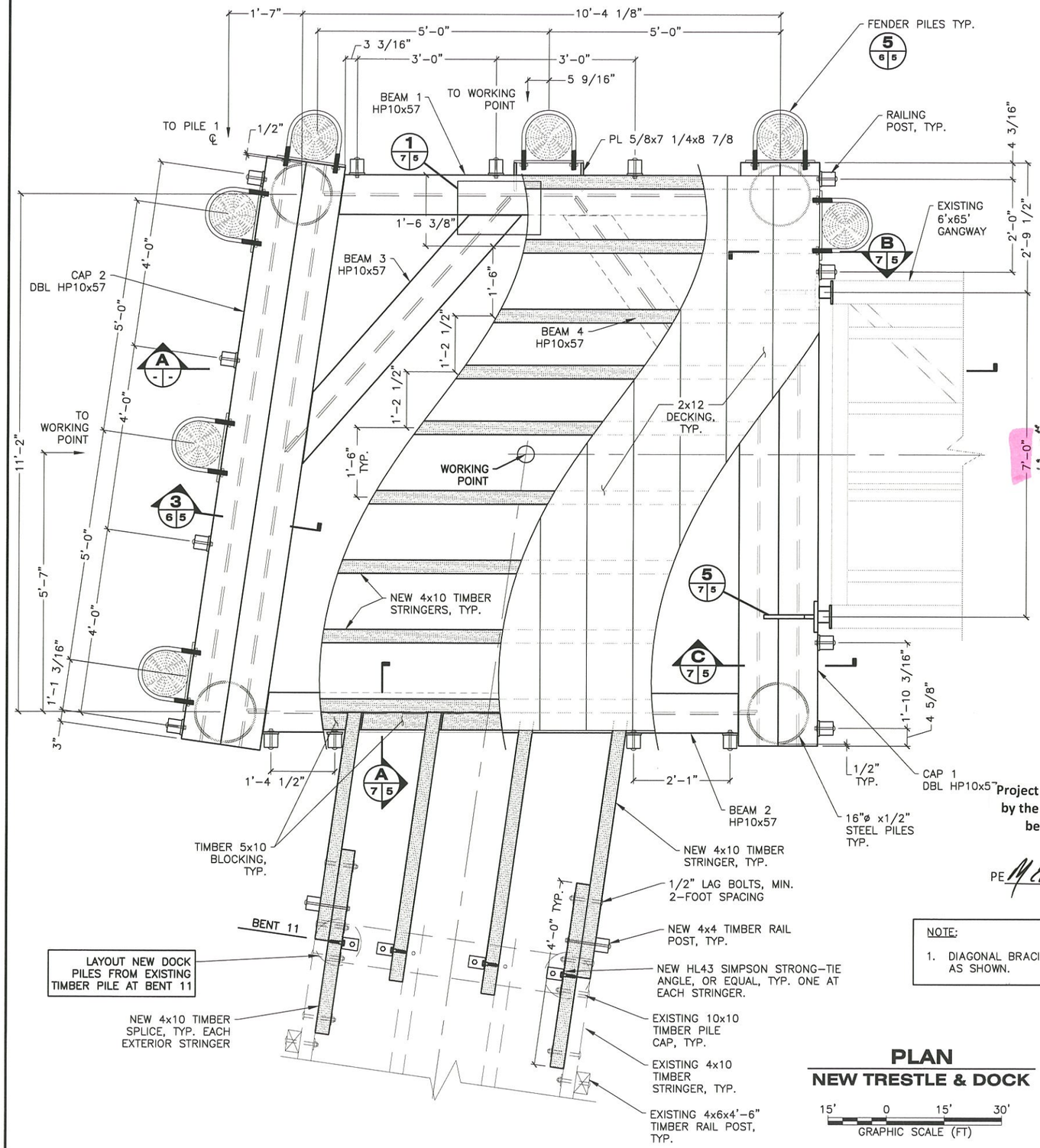
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

PORT ALEXANDER OUTER HARBOR IMPROVEMENTS

NEW SITE PLAN

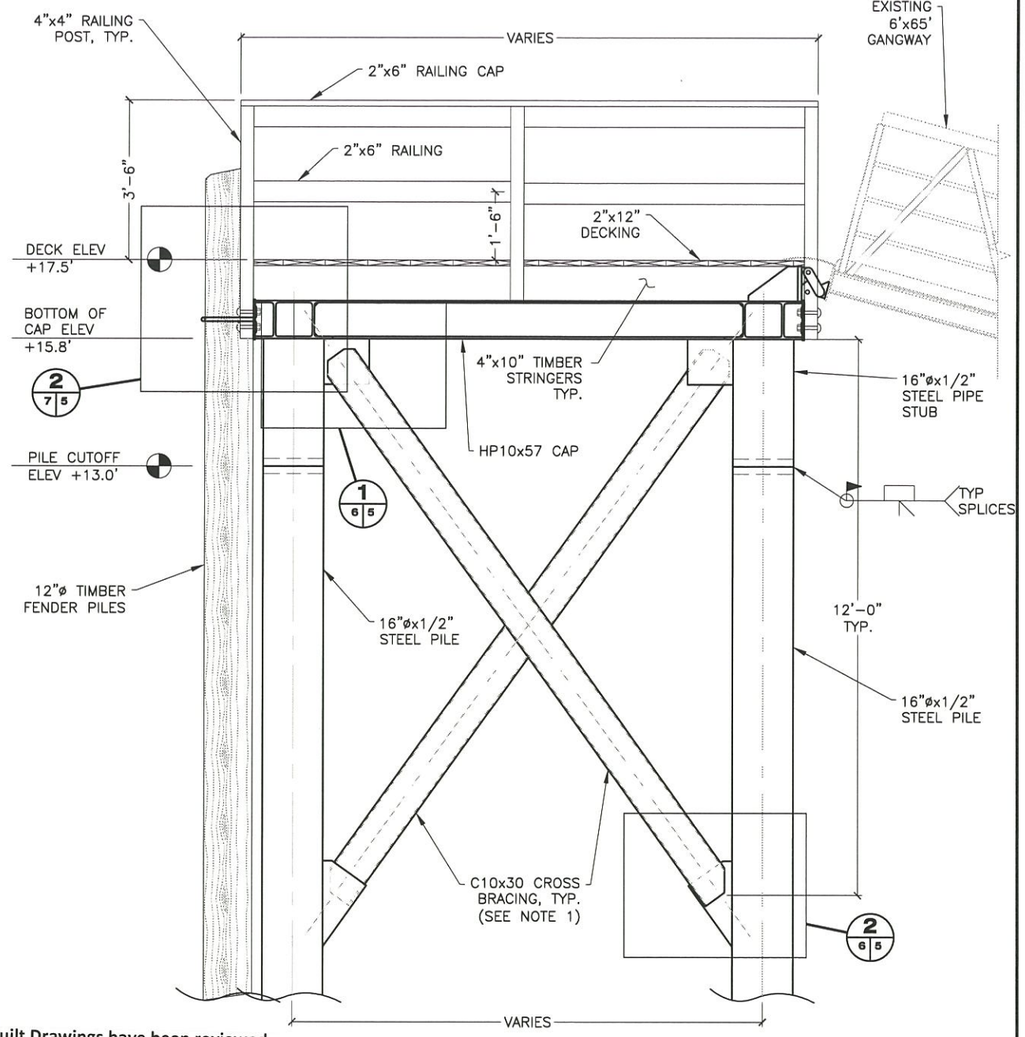
PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\04 - NEW SITE PLAN.DWG
TAB: 04

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	04	23



PLAN
NEW TRESTLE & DOCK

15' 0 15' 30'
GRAPHIC SCALE (FT)



A ELEVATION
DOCK

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edwards Date 11/13/2017

NOTE:

1. DIAGONAL BRACING BETWEEN ALL PILES. TYPICAL INSTALLATION AS SHOWN.

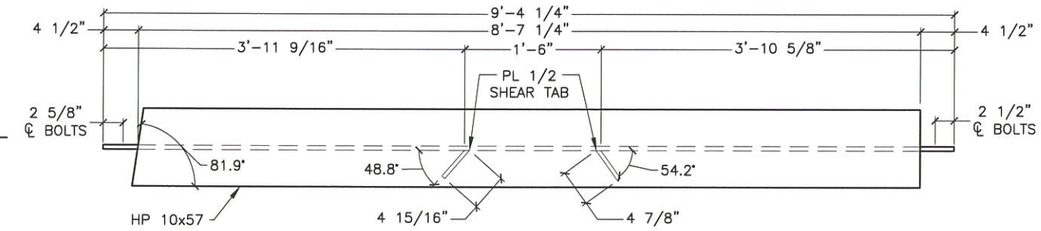
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOAST REGION
STATE OF ALASKA 49th DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER 3/17/17	**PORT ALEXANDER OUTER HARBOR IMPROVEMENTS**
CHECKED BY: D. LOWELL	**APPROACH DOCK PLAN**
DRAWN BY: STAFF	
PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\05 - TRESTLE IMPROVEMENT PLAN.DWG TAB: 05	

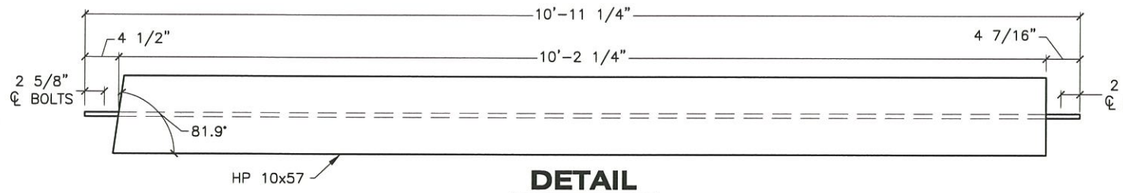
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	05	23

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

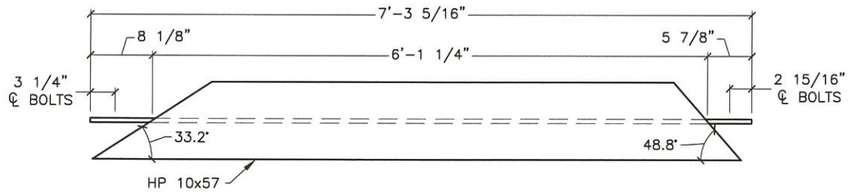
PE M. Edmunds Date 11/13/2017



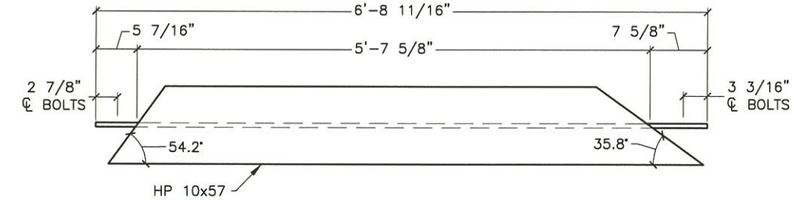
DETAIL
BEAM #1



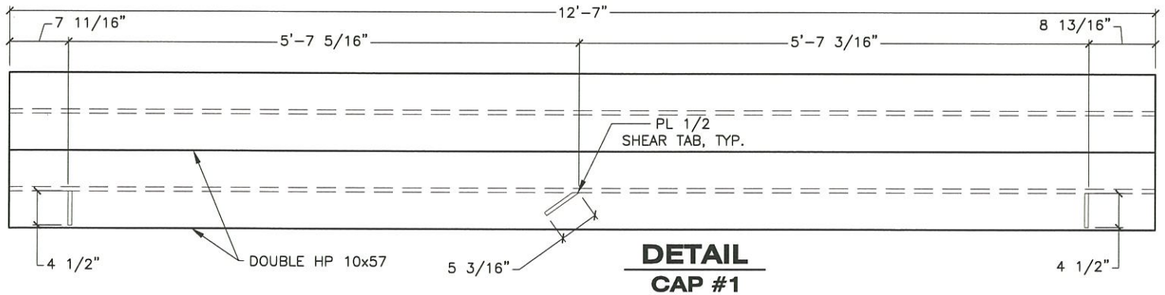
DETAIL
BEAM #2



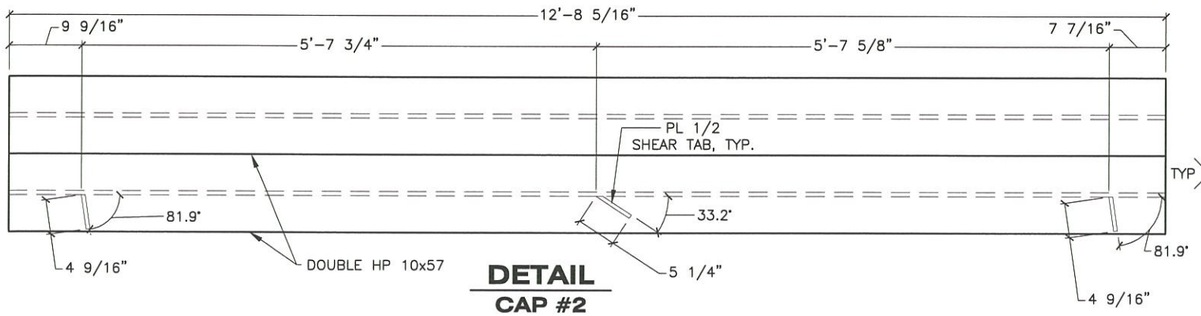
DETAIL
BEAM #3



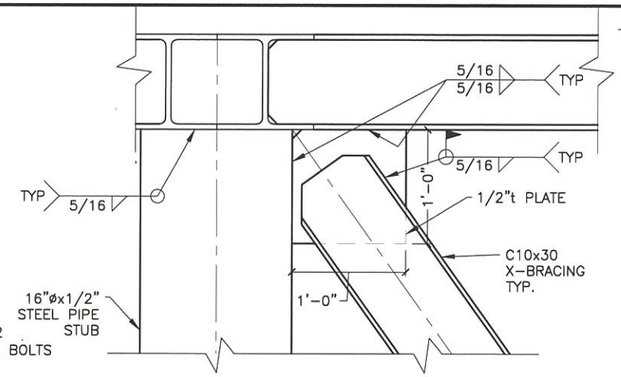
DETAIL
BEAM #4



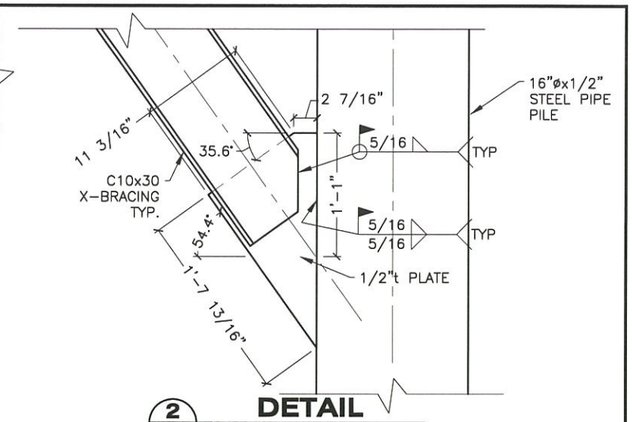
DETAIL
CAP #1



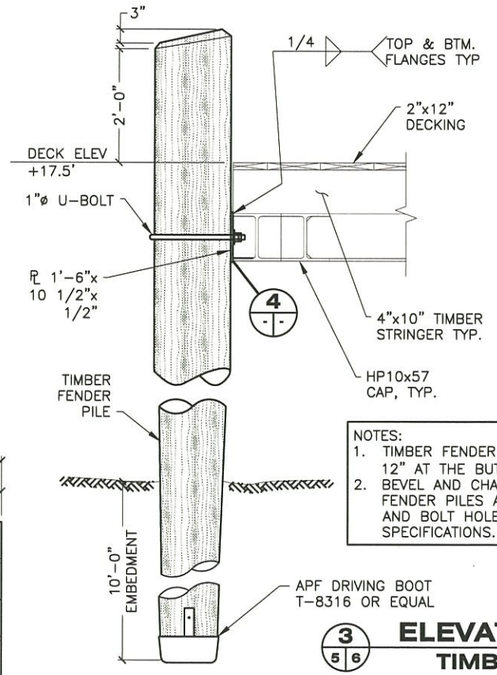
DETAIL
CAP #2



1 5 6 **DETAIL**
UPPER BRACING CONNECTION



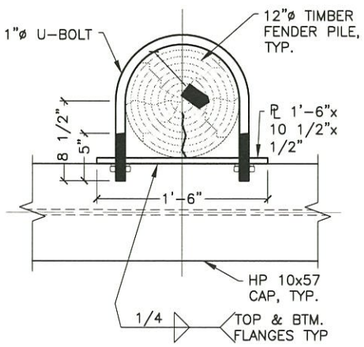
2 5 6 **DETAIL**
LOWER BRACING CONNECTION



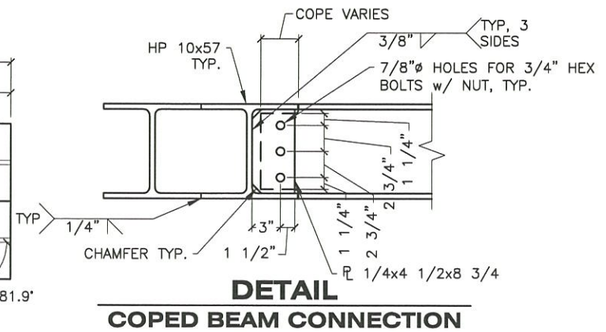
3 5 6 **ELEVATION**
TIMBER FENDER PILE

NOTES:
1. TIMBER FENDER PILE DIMENSIONS ARE NOMINALLY 12" AT THE BUTT, TAPERING TO 8" AT THE TIP.
2. BEVEL AND CHAMFER THE TOPS OF TIMBER FENDER PILES AS SHOWN. FIELD TREAT CUTS AND BOLT HOLES WITH PRESERVATIVE PER THE SPECIFICATIONS.

4 - - **DETAIL**
MOUNTING PLATE TIMBER FENDER



5 5 6 **DETAIL**
FENDER PILE CONNECTION



DETAIL
COPED BEAM CONNECTION

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS
DRAWN BY: STAFF
CHECKED BY: D. LOWELL

STATE OF ALASKA
49th
DAVID H. LOWELL
CE-12614
REGISTERED PROFESSIONAL ENGINEER
3/17/17

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

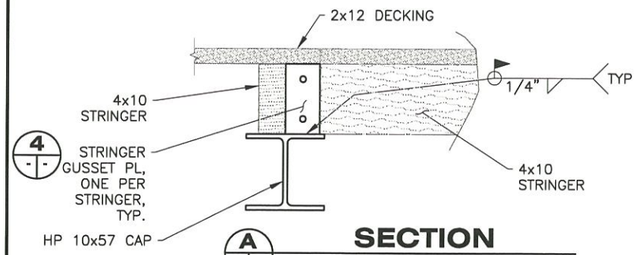
PORT ALEXANDER OUTER HARBOR IMPROVEMENTS

APPROACH DOCK DETAILS

PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\06, 07 - TRESTLE IMPROVEMENT DETAILS.DWG
TAB: 06

REVISIONS NO.	DATE	DESCRIPTION

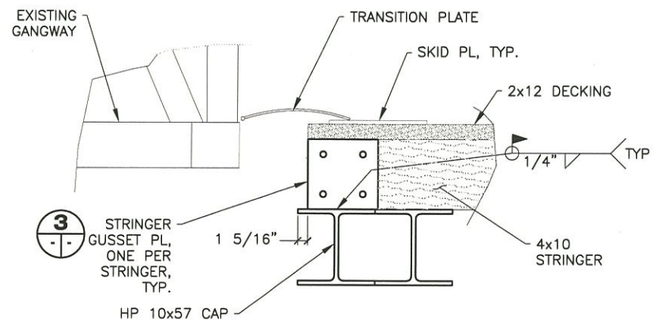
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
Z835040000	2017	06	23



4 / - - **SECTION**

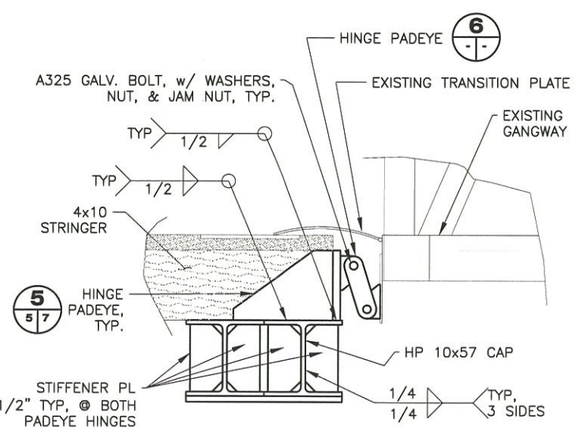
A / 5 7 **PIER CAP - STRINGER CONNECTION**

CUT 5x10 BLOCKING FOR STRINGER GUSSET PL & BOLT HEADS, NUTS.



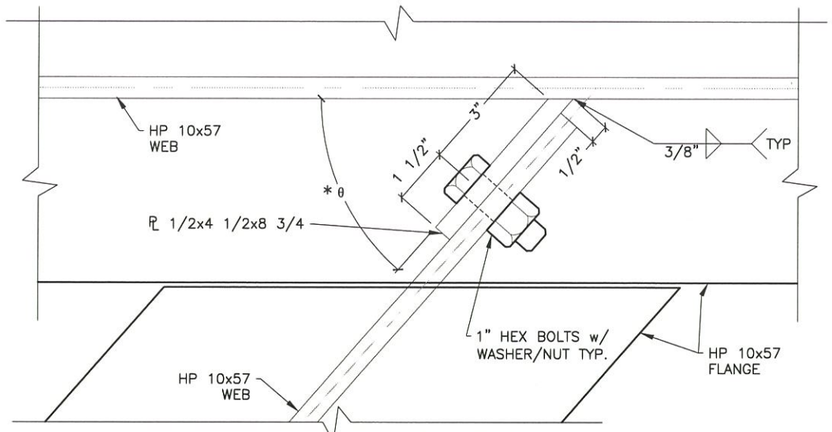
3 / - - **SECTION**

B / 5 7 **PIER CAP - STRINGER CONNECTION**



C / 5 7 **SECTION**

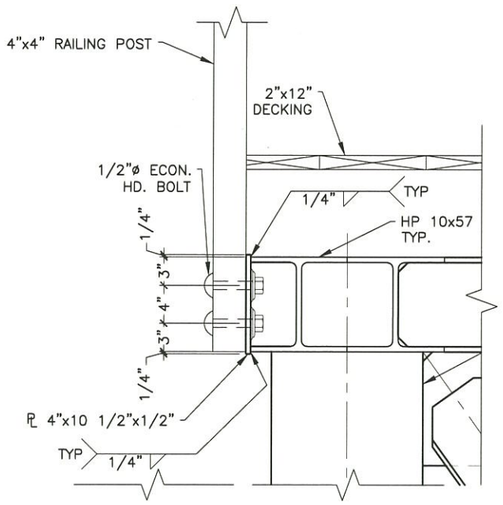
PIER CAP - GANGWAY CONNECTION



1 / 5 7 **DETAIL**

SHEAR TAB CONNECTION

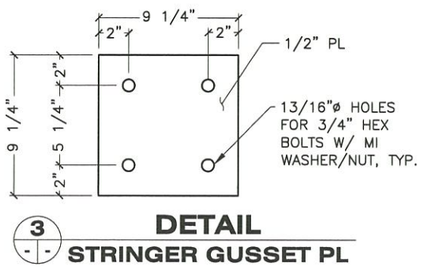
* REFER TO BEAM DETAILS ON SHEET 6 FOR θ



2 / 5 7 **DETAIL**

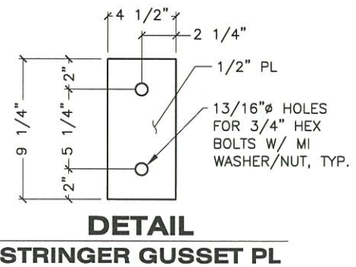
RAILING CONNECTION

TIMBER FENDER PILE NOT SHOWN FOR CLARITY



3 / - - **DETAIL**

STRINGER GUSSET PL

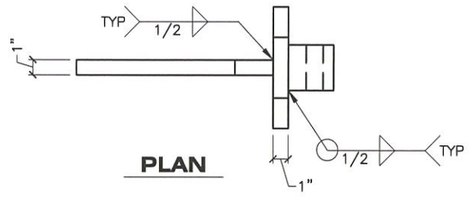


4 / - - **DETAIL**

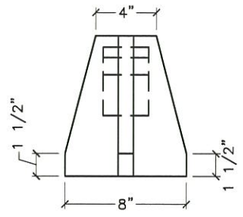
STRINGER GUSSET PL

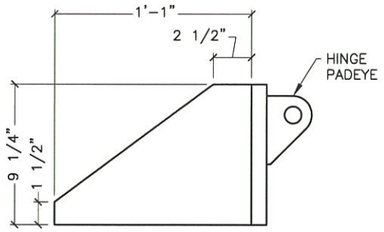
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edwards Date 11/12/2017



PLAN

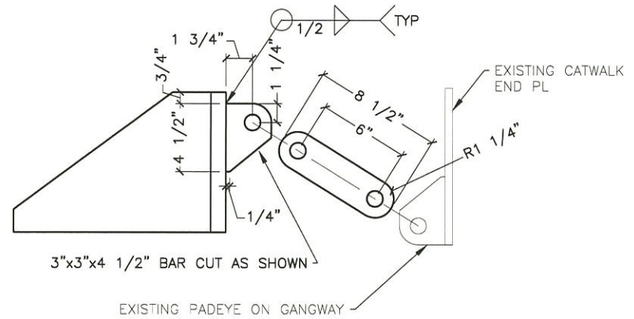


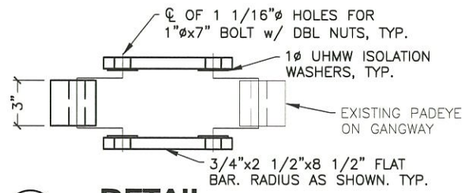


ELEVATION

5 / 5 7 **DETAIL**

PADEYE CONNECTION





6 / - - **DETAIL**

HINGE PADEYE

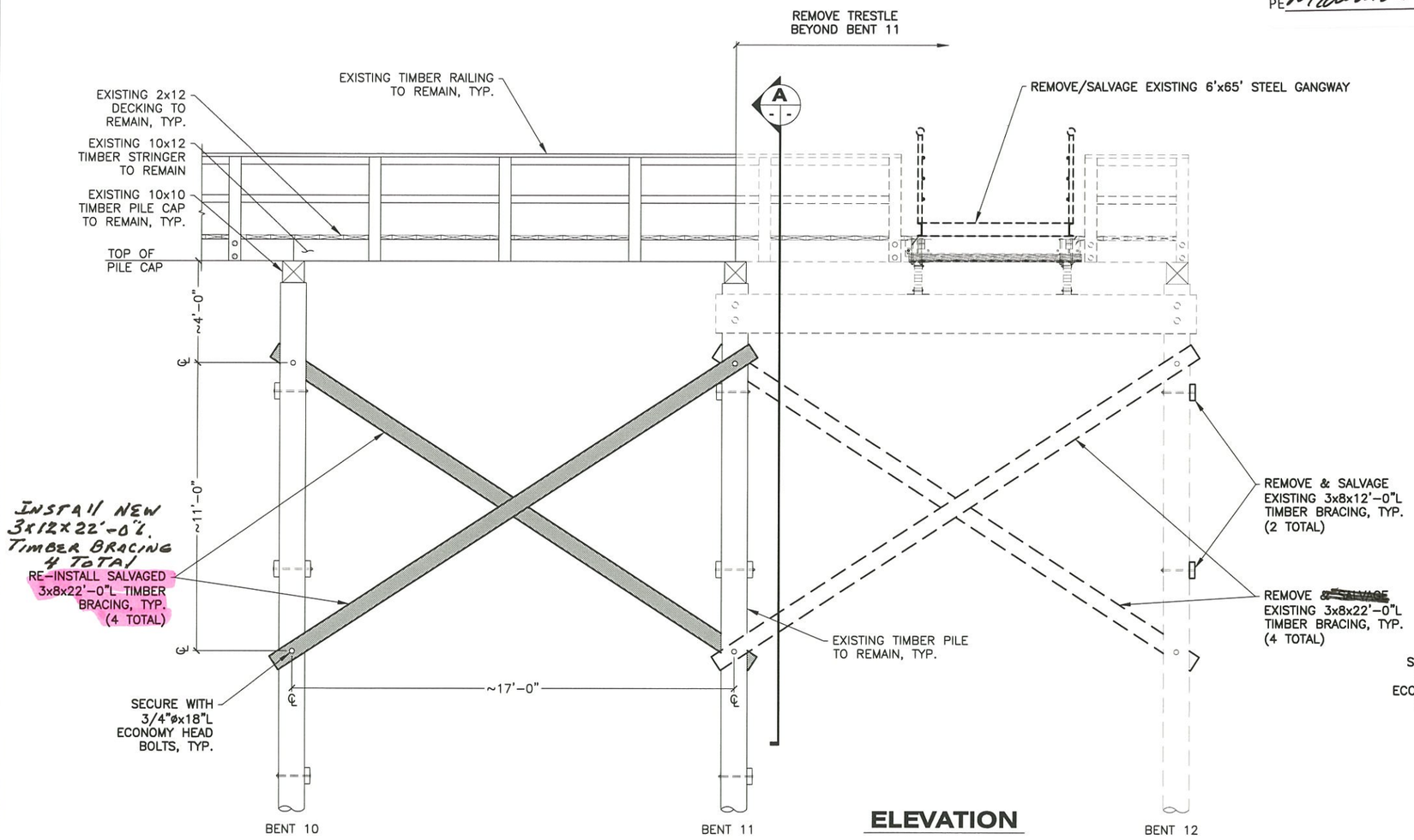
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOAST REGION
STATE OF ALASKA 49th DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER 3/17/17	**PORT ALEXANDER OUTER HARBOR IMPROVEMENTS** **APPROACH DOCK DETAILS**
CHECKED BY: D. LOWELL	
DRAWN BY: STAFF	
PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\06, 07 – TRESTLE IMPROVEMENT DETAILS.DWG	
TAB: 07	

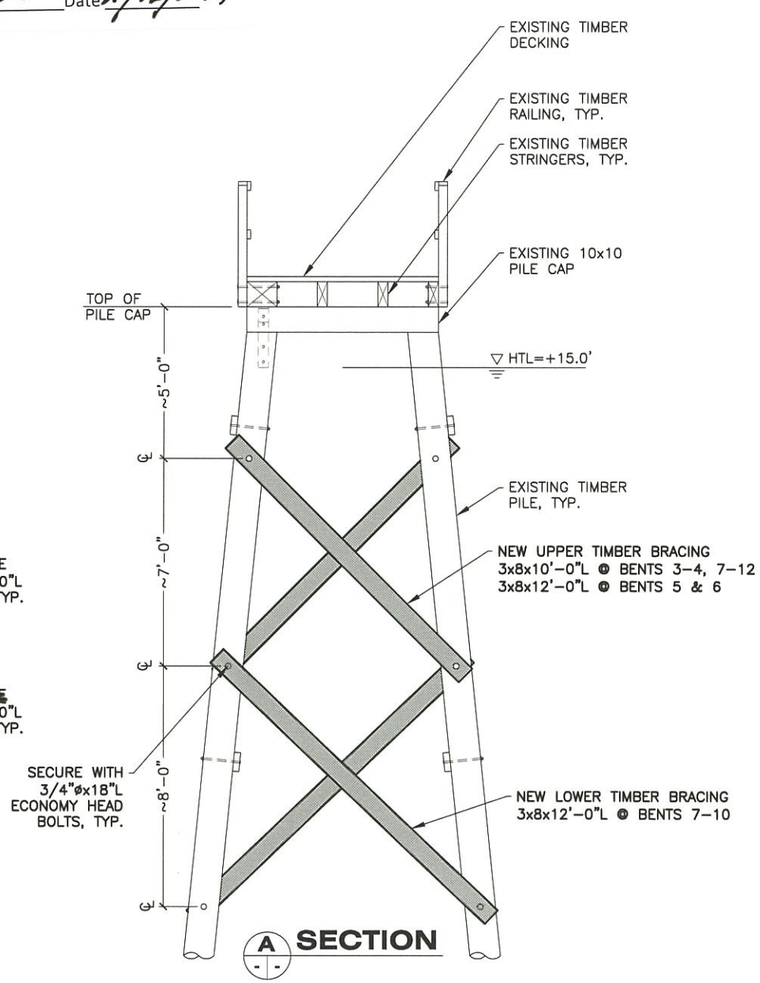
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	Z835040000	2017	07	23

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edwards Date 11/12/2017



ELEVATION

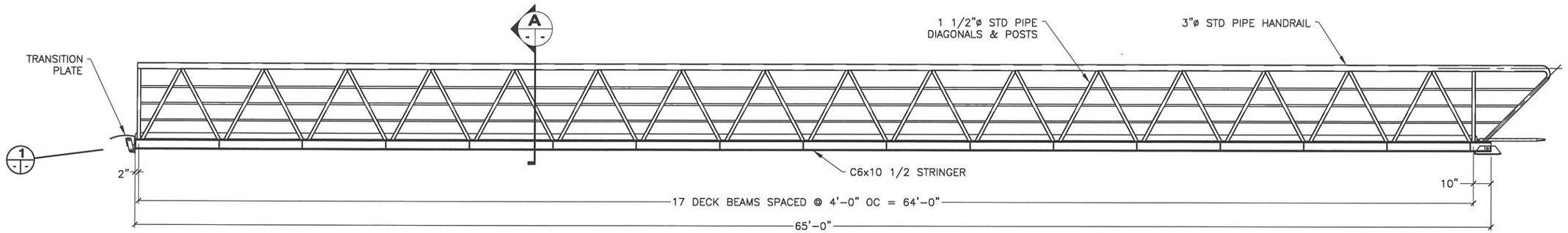


A SECTION

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOAST REGION
STATE OF ALASKA 49th DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER	**PORT ALEXANDER OUTER HARBOR IMPROVEMENTS** **TRESTLE CROSS BRACING REPAIR**
CHECKED BY: D. LOWELL	
DRAWN BY: STAFF	
PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\08, 09 - GANGWAY & CROSS BRACING.DWG	
TAB: 08	

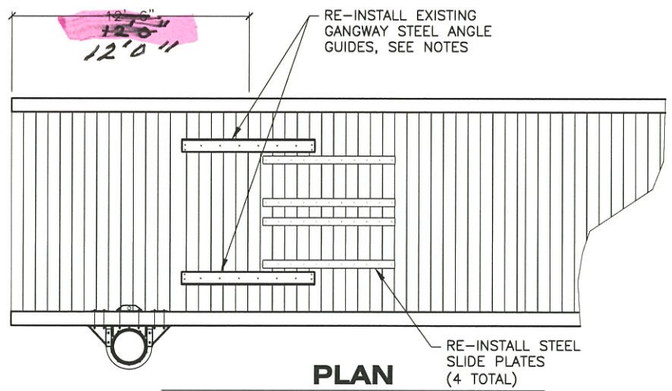
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	08	23



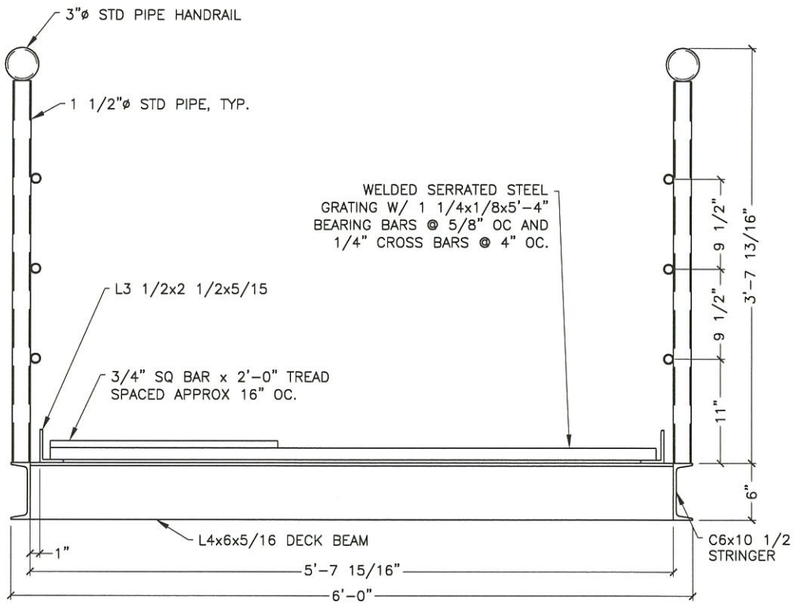
ELEVATION
EXISTING GANGWAY

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

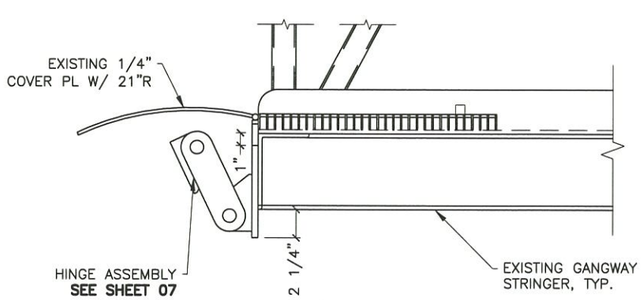
PE M Lowell Date 11/12/2017



PLAN
GANGWAY GUIDES ON FLOAT



A SECTION
EXISTING GANGWAY



1 GANGWAY HEAD
REFER TO SHEET 07
FOR HINGE DETAILS

REFER TO SHEET 23A FOR PADEYE & HINGE PLACEMENT

GANGWAY GUIDE & SLIDE PLATE NOTES:

1. TACK GANGWAY ANGLE GUIDES & SLIDE PLATES IN PLACE.
2. MONITOR GANGWAY TRAVEL AREA DURING AT LEAST ONE FULL TIDE CYCLE BEFORE PERMANENTLY INSTALLING AS SHOWN.
3. REUSE EXISTING ¼"t STEEL SLIDE PLATES (4 TOTAL). COUNTERSINK PLATE ⅛" INTO DECK. SPACE PLATES EVENLY UNDER WIDTH OF EXISTING TRANSITION RAMP. ATTACH TO DECKING w/ ¼"ø GALV. FLATHEAD DECK SCREWS AS SHOWN. SCREWS SHALL SIT FLUSH WITH TOP OF PLATE.
4. ADJUST ANGLES AND SLIDE PLATES ACCORDINGLY W/ CONSIDERATION TO TIDAL RANGE.
5. REUSE EXISTING STEEL GANGWAY ANGLE GUIDES. PRE-DRILL ⅜" AND COUNTERSINK HOLES. ATTACH TO DECKING w 5/16"ø x6"l SS OR GALV. FLATHEAD DECK SCREWS.
6. FINAL LOCATION MUST BE APPROVED BY THE ENGINEER.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOAST REGION
STATE OF ALASKA 49th DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER	**PORT ALEXANDER OUTER HARBOR IMPROVEMENTS** **EXISTING GANGWAY DETAILS**
CHECKED BY: D. LOWELL	
DRAWN BY: STAFF	
PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\08, 09 - GANGWAY & CROSS BRACING.DWG	
TAB: 09	

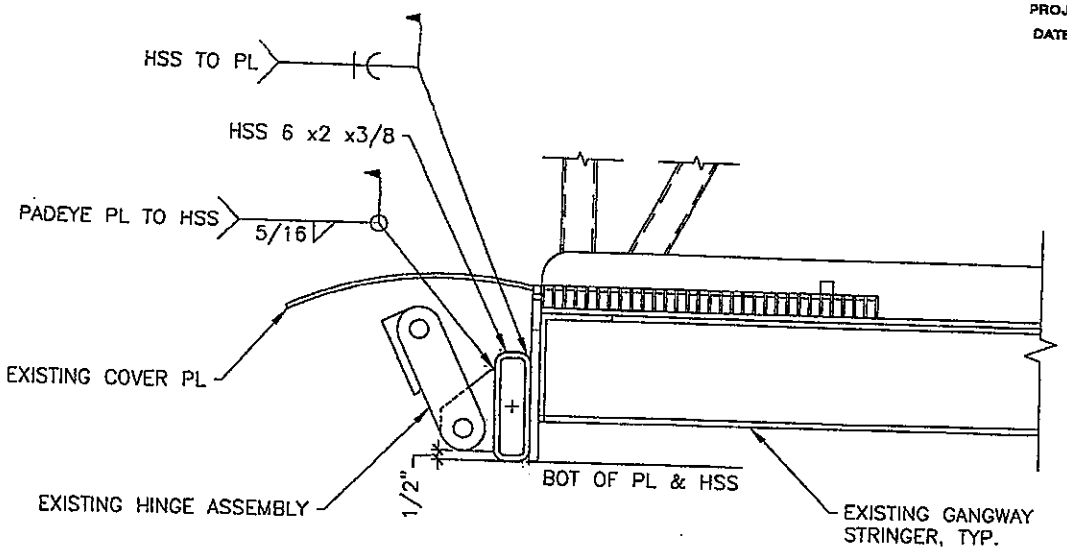
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	09	23

PLAN SHEET 9A

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edwards Date 11/13/2017

PROJECT: Z836040000
DATE: SEPT. 20 2017

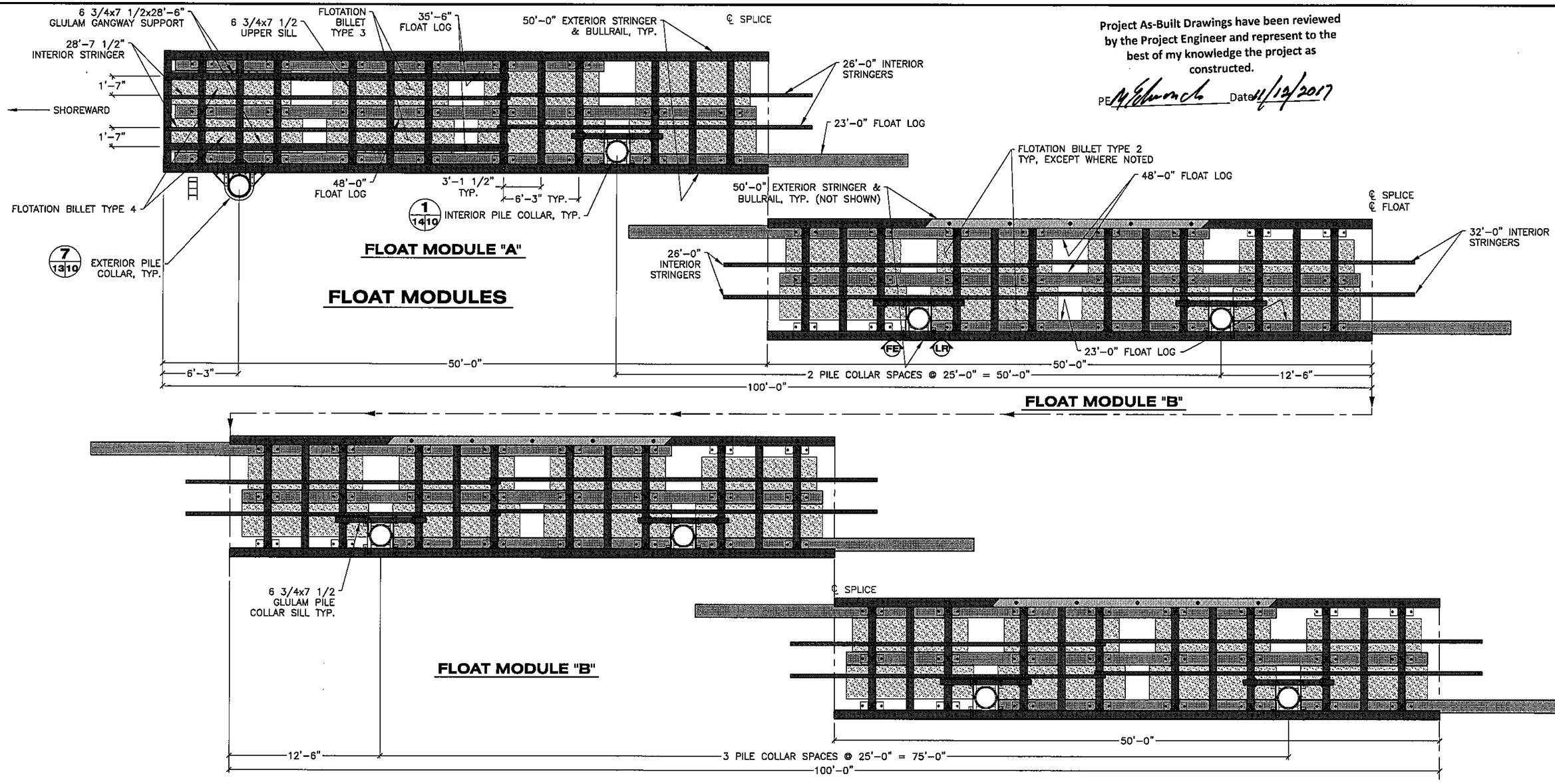


1 GANGWAY HEAD MODIFICATIONS

ATTCH b
Pg 2 of 3

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edwards Date 11/13/2017



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

LEGEND

- LR — LIFE RING CABINET
- FE — FIRE EXTINGUISHER CABINET
- RESCUE LADDER

DESIGNED BY: C. DUBOIS

STATE OF ALASKA — 49th — DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: D. LOWELL

DRAWN BY: STAFF

PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\10, 11, 12 - 350' LOG FLOAT LAYOUT & MC

TAB: 10

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

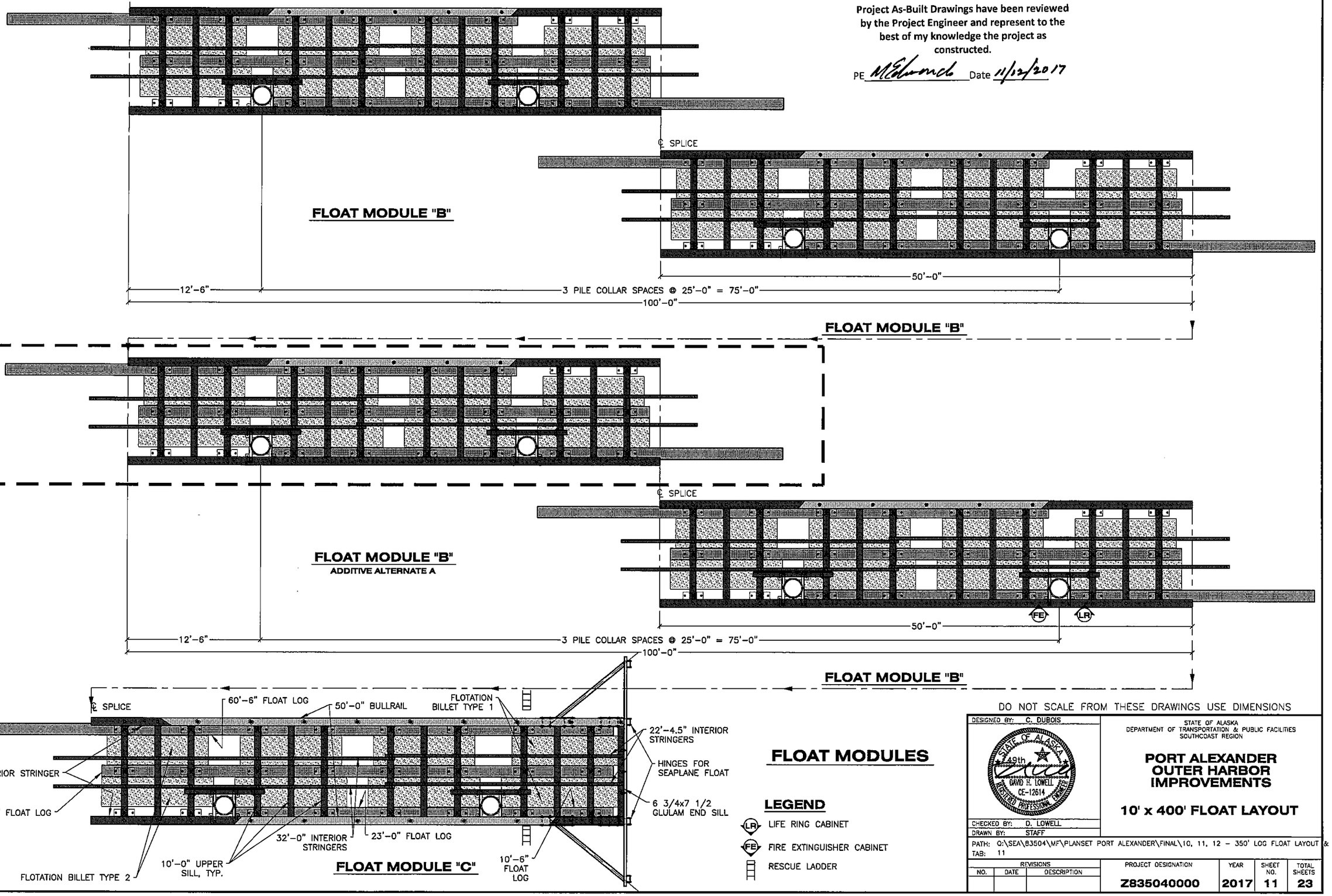
PORT ALEXANDER OUTER HARBOR IMPROVEMENTS

10' x 400' FLOAT LAYOUT

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	10	23

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edwards Date 11/22/2017



FLOAT MODULES

LEGEND

- LR — LIFE RING CABINET
- FE — FIRE EXTINGUISHER CABINET
- RESCUE LADDER

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS
DRAWN BY: STAFF
CHECKED BY: D. LOWELL

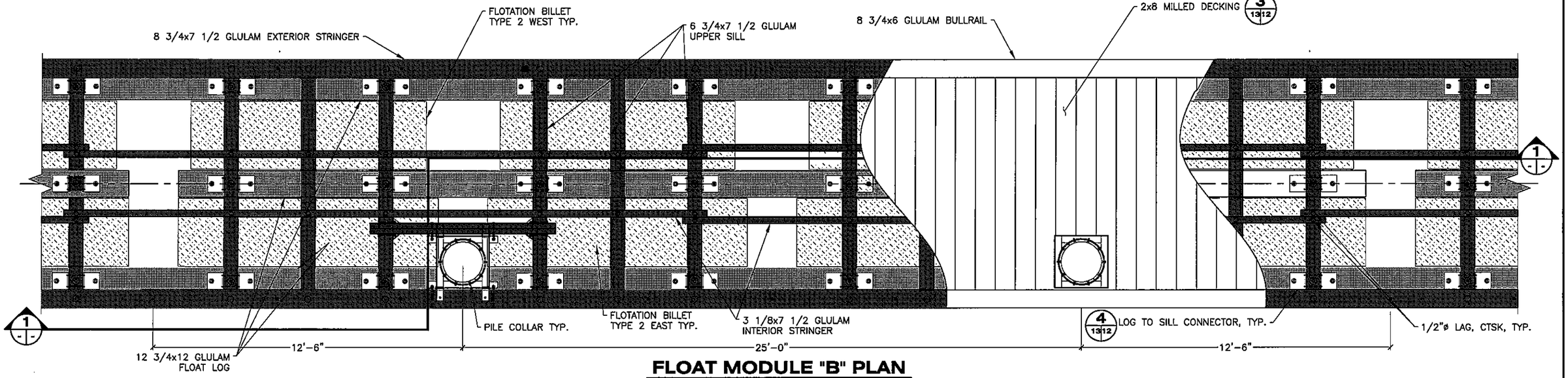
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

PORT ALEXANDER OUTER HARBOR IMPROVEMENTS

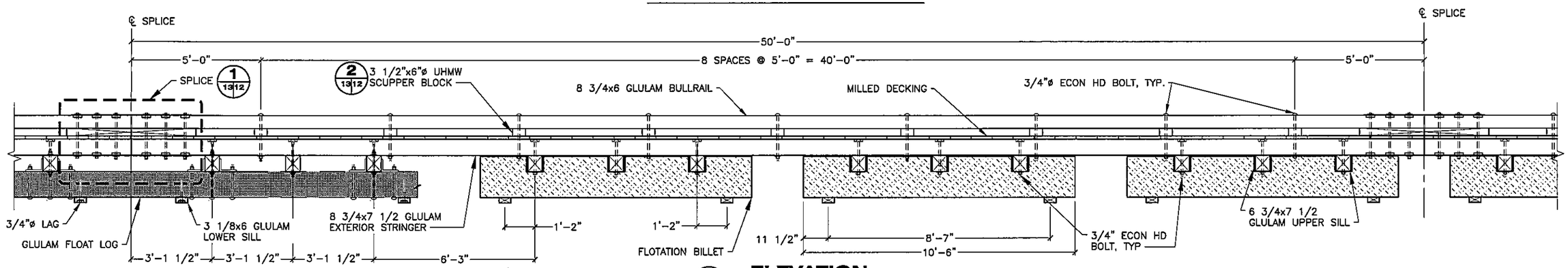
10' x 400' FLOAT LAYOUT

PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\10, 11, 12 – 350' LOG FLOAT LAYOUT & MC
TAB: 11

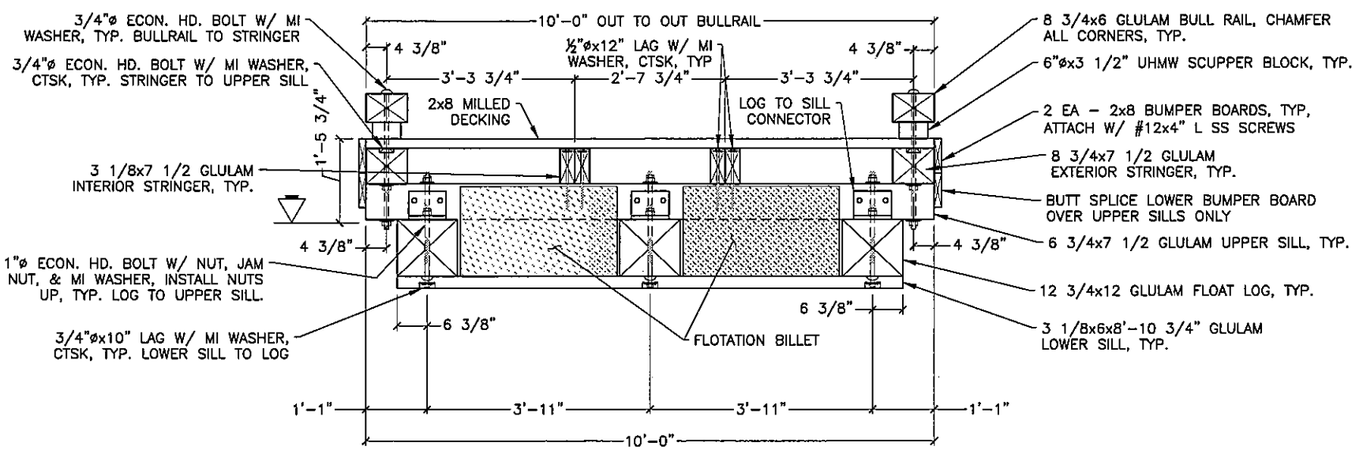
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	11	23



FLOAT MODULE "B" PLAN



1 ELEVATION



TYPICAL SECTION

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Lowell Date 11/12/2017

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS
DRAWN BY: STAFF
CHECKED BY: D. LOWELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

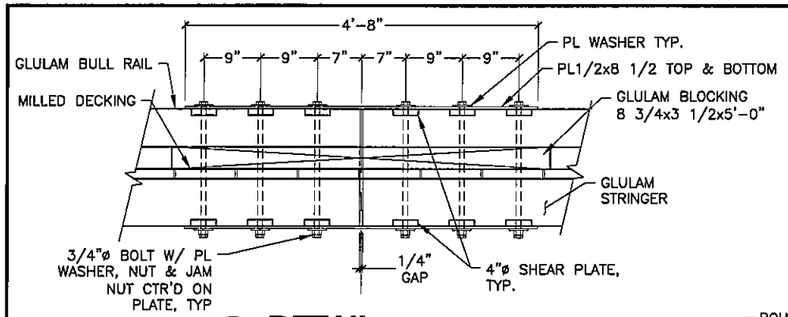
STATE OF ALASKA 49th DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER

PORT ALEXANDER OUTER HARBOR IMPROVEMENTS

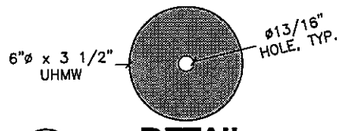
50' FLOAT MODULE

PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\10, 11, 12 – 350' LOG FLOAT LAYOUT & MC
TAB: 12

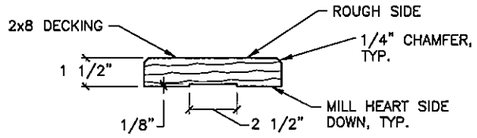
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	12	23



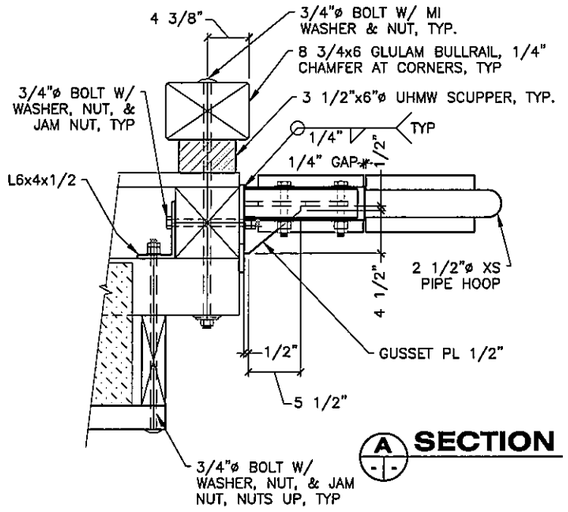
1/12/13 **DETAIL SPLICE**



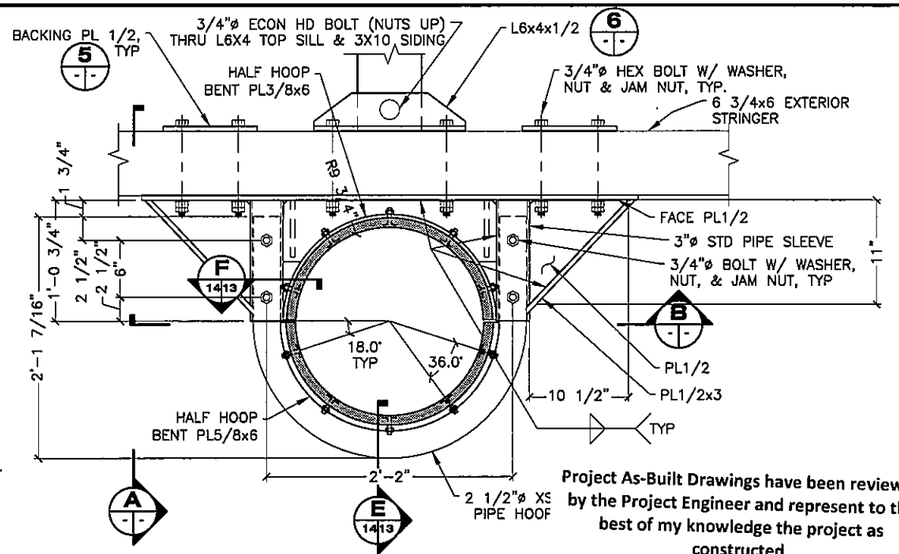
2/12/13 **DETAIL SCUPPER BLOCK**



3/12/13 **DETAIL MILLED DECKING**



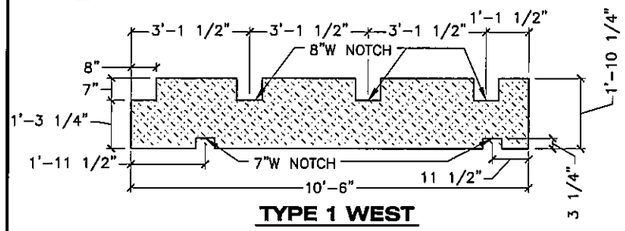
A **SECTION**



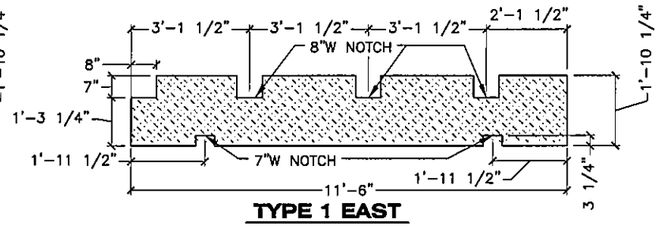
7/10/13 **DETAIL EXTERIOR PILE COLLAR**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

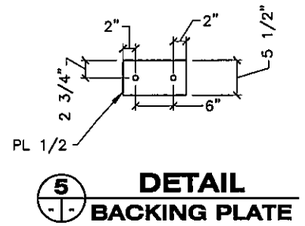
PE M Edwards Date 11/12/2017



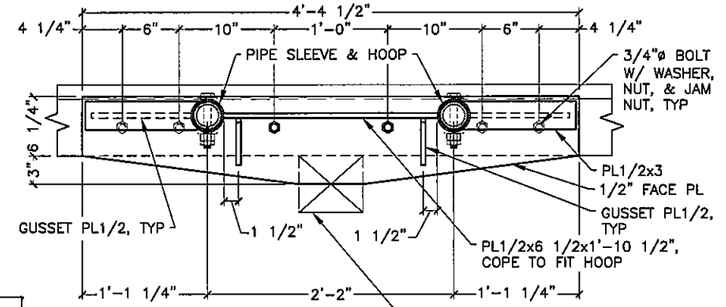
TYPE 1 WEST



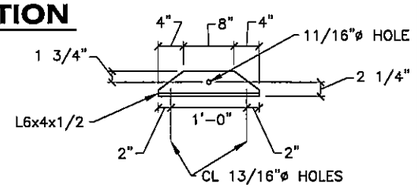
TYPE 1 EAST



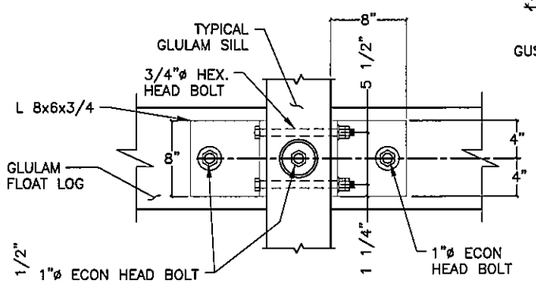
5/10/13 **DETAIL BACKING PLATE**



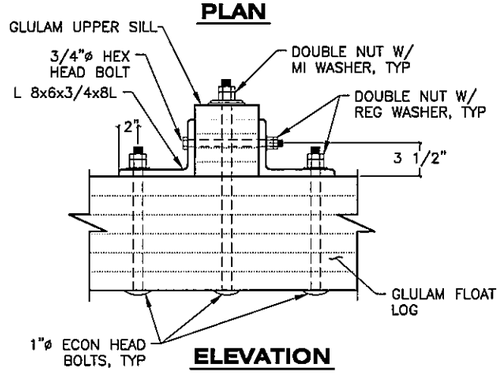
B **SECTION**



6/12/13 **DETAIL ANGLE CLIP**



PLAN



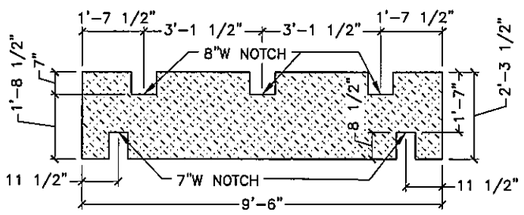
ELEVATION

4/12/13 **DETAIL LOG TO SILL CONNECTOR**

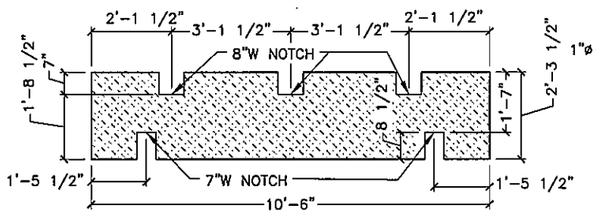
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

TYPE 2 WEST
TYPICAL

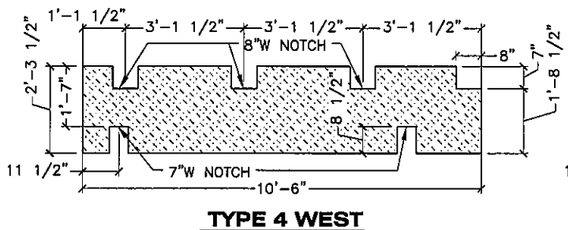
TYPE 2 EAST
TYPICAL



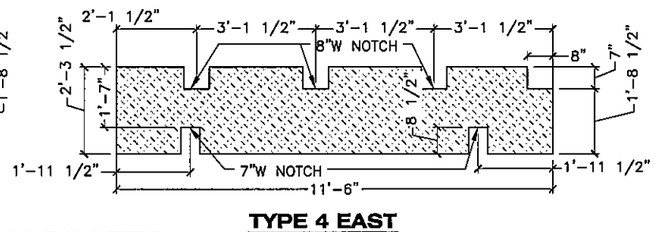
TYPE 3 WEST



TYPE 3 EAST



TYPE 4 WEST

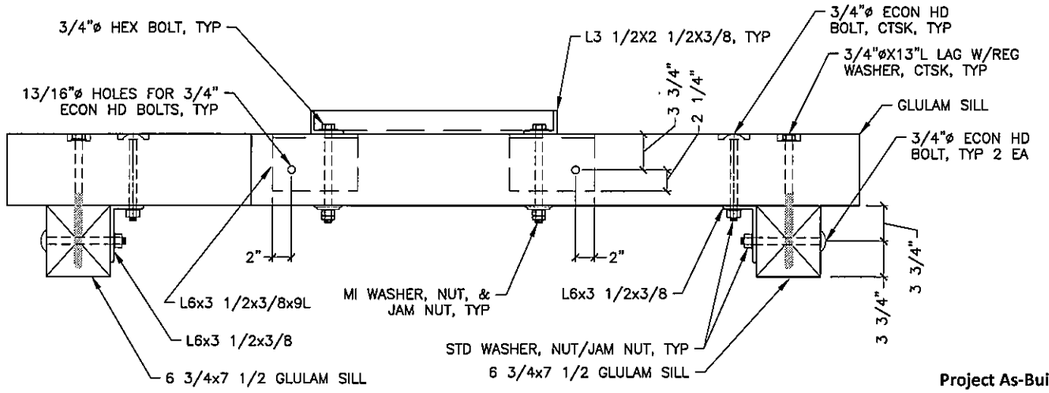


TYPE 4 EAST

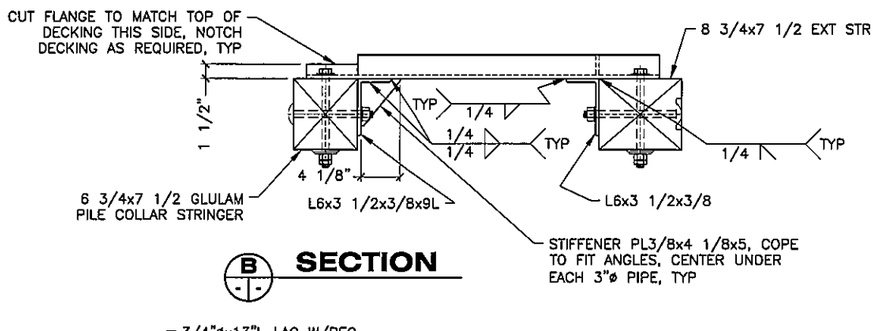
FLOTATION BILLETS

DESIGNED BY: C. DUBOIS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOAST REGION
STATE OF ALASKA 49th DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER 3/17/17	**PORT ALEXANDER OUTER HARBOR IMPROVEMENTS** **FLOAT DETAILS**
CHECKED BY: D. LOWELL	
DRAWN BY: STAFF	
PATH: O:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\13, 14 – HARBOR FLOAT DETAILS & PILE C	
TAB: 13	

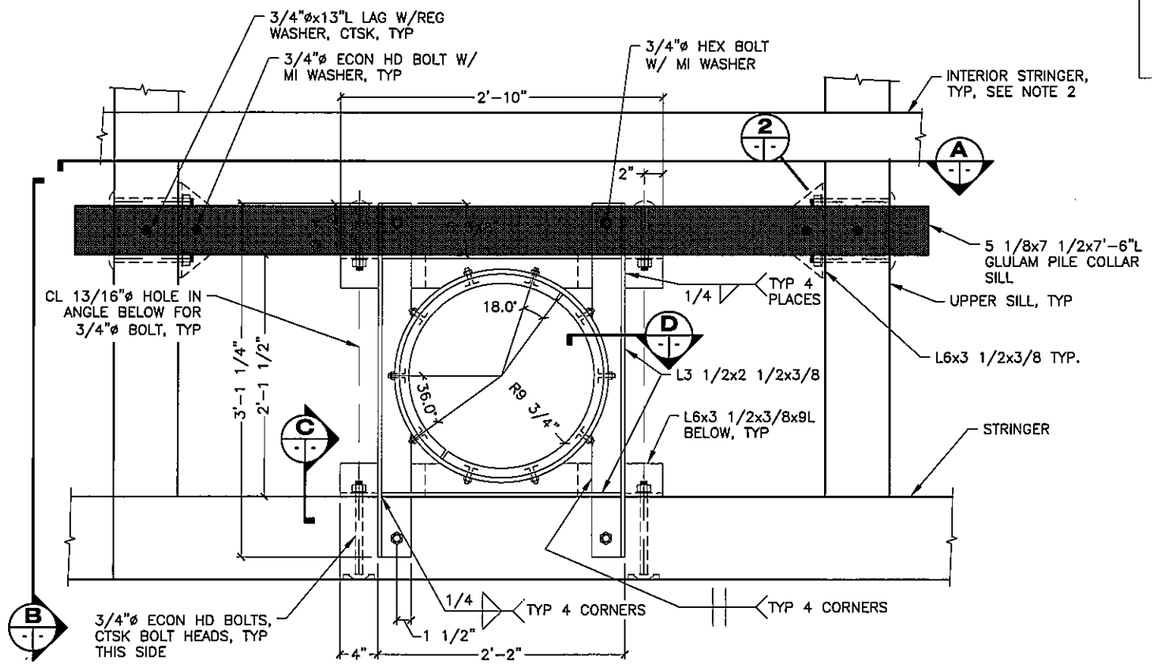
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	13	23



A **SECTION**



B **SECTION**



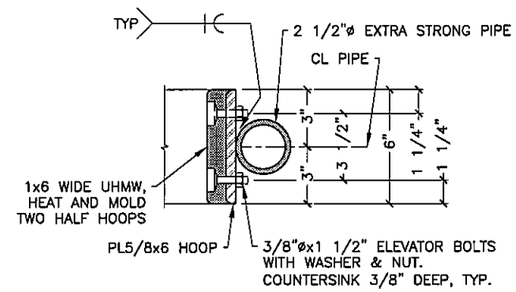
1 10|14 **DETAIL**
INTERIOR PILE COLLAR

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

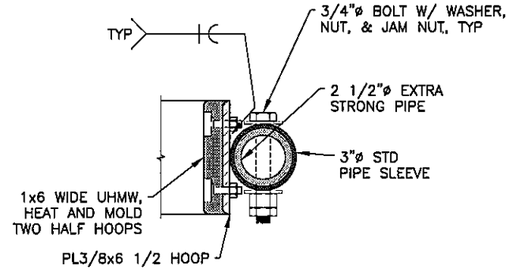
PE M Edwards Date 11/12/2017

PILE COLLAR NOTES

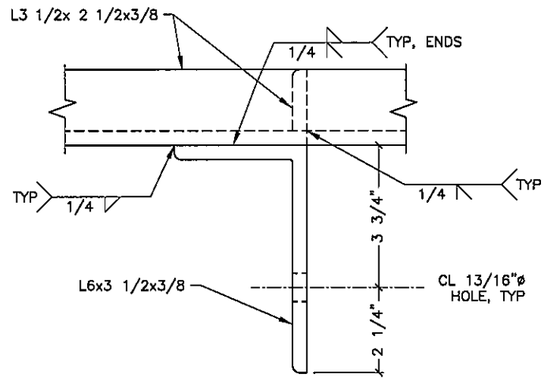
1. ALL WELDS MAY NOT BE SHOWN. WELD ALL CONTACTS W/ 1/4" FILLET UON. GRIND SMOOTH WHERE REQ'D.
2. UHMW POLY LINERS, AS SHOWN, WITH 10 BOLTS PER CIRCULAR HALF COLLAR. UHMW POLY LINERS SHALL BE HEATED AND THEN MOLDED TO THE SHAPE SHOWN ON THE DETAILS. THE POLY LINER SECURING BOLTS SHALL BE COUNTERSUNK AS SHOWN AND EVENLY SPACED HIGH AND LOW.
3. MATCH DECK BOARDS FLUSH W/ EDGES OF PILE COLLARS. NOTCH DECK BOARDS AROUND COLLAR ANGLES ENDS.
4. SPLICE BOLT LENGTHS VARY DEPENDING ON THICKNESS OF BULLRAIL.
5. STAGGER INTERIOR STRINGERS AS SHOWN ON FLOAT LAYOUT SHEETS. LENGTHS FOR BOLTS THROUGH PILE COLLAR & SILL VARY DEPENDING ON STRINGER LOCATION.



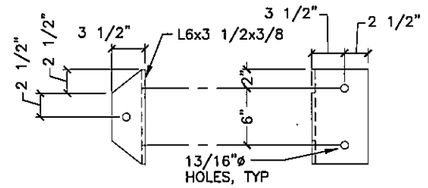
E 13|14 **SECTION**



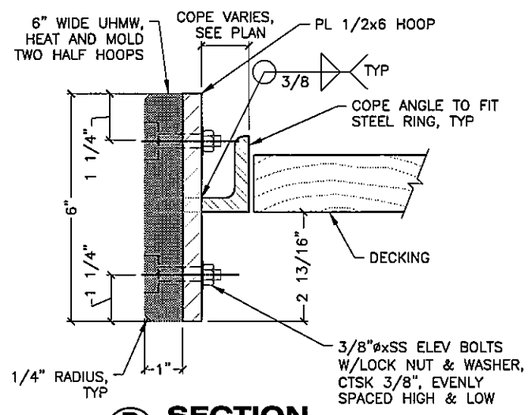
F 13|14 **SECTION**



C **SECTION**



2 **DETAIL**
ANGLE



D **SECTION**

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS
DRAWN BY: STAFF
CHECKED BY: D. LOWELL

STATE OF ALASKA 49th DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER
3/17/17

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

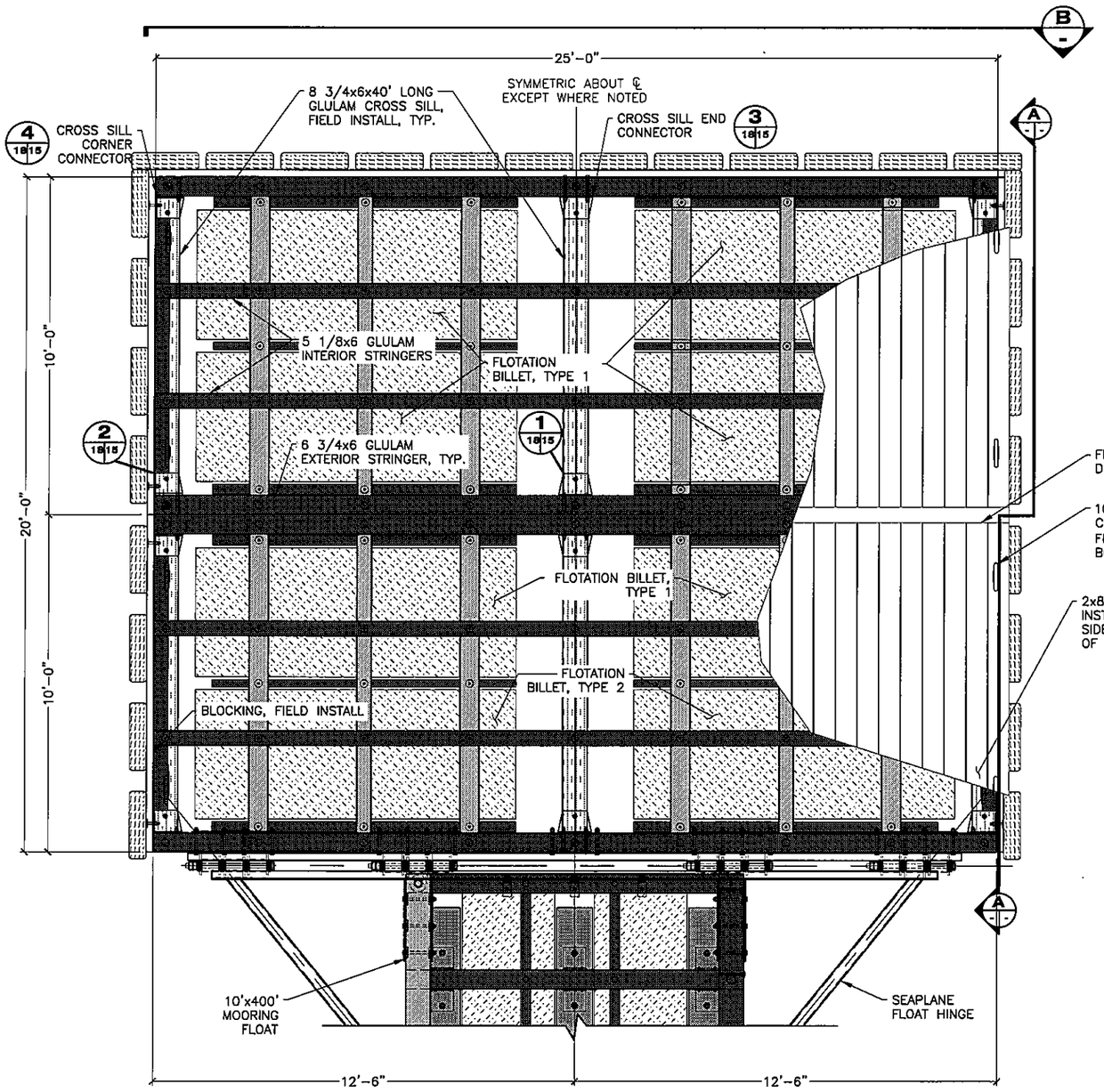
PORT ALEXANDER OUTER HARBOR IMPROVEMENTS

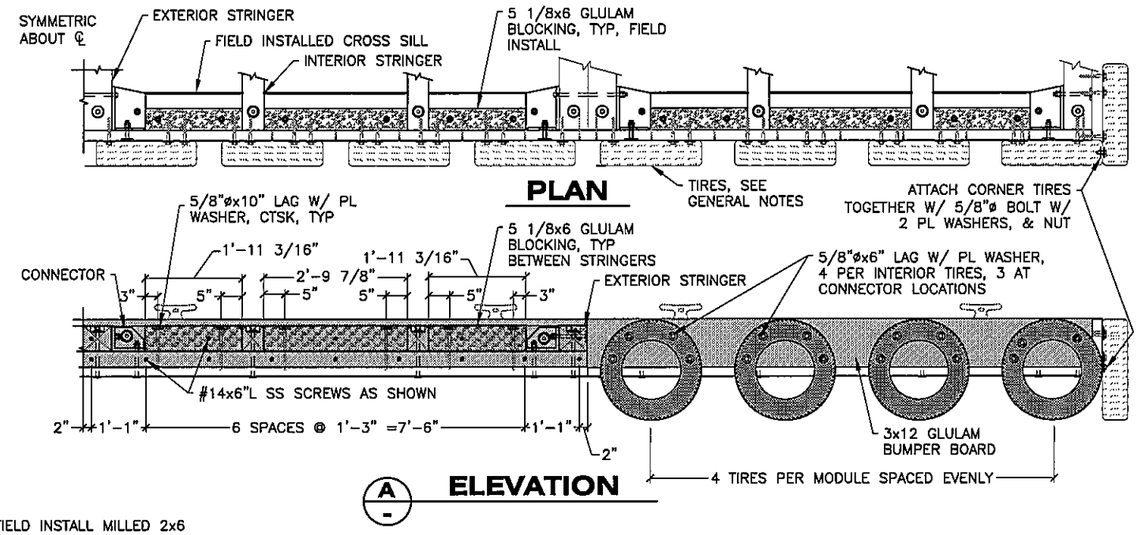
FLOAT DETAILS

PATH: O:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\13, 14 - HARBOR FLOAT DETAILS & PILE C
TAB: 14

REVISIONS NO.	DATE	DESCRIPTION

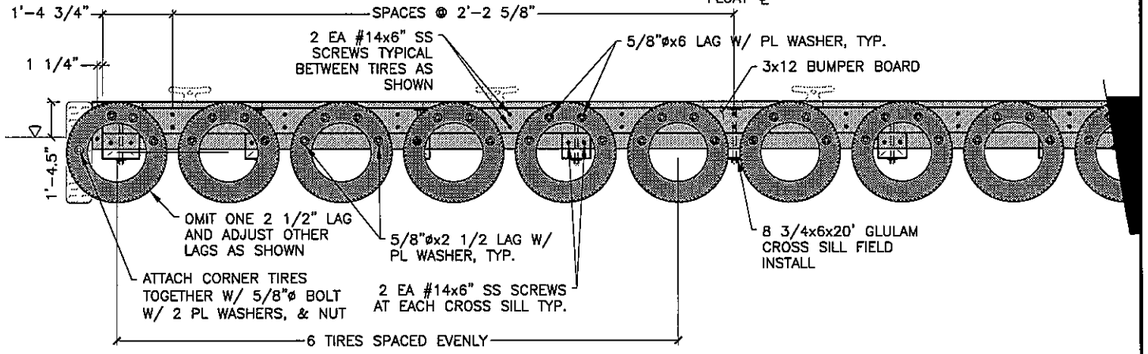
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
Z835040000	2017	14	23





TIRE BUMPER NOTES:

1. REFERENCE GENERAL NOTES ON SHEET 2 FOR NOMINAL SIZE AND TYPE OF TIRES.
2. PRE-DRILL ALL HOLES FOR TIRE INSTALLATION. PROVIDE 2" DIAMETER HOLE IN OUTSIDE FACE OF TIRE TO FACILITATE EXTERIOR LAG BOLT INSTALLATION. ALL LAG BOLTS SHALL BE EQUIPPED WITH GALVANIZED PLATE WASHERS IN CONTACT WITH RUBBER SURFACES.
3. COORDINATE AND/OR ADJUST LOCATIONS SO THAT ATTACHMENT HARDWARE DOES NOT CONFLICT WITH OTHER FLOAT FEATURES AS MAY BE REQUIRED.



SEAPLANE FLOAT PLAN

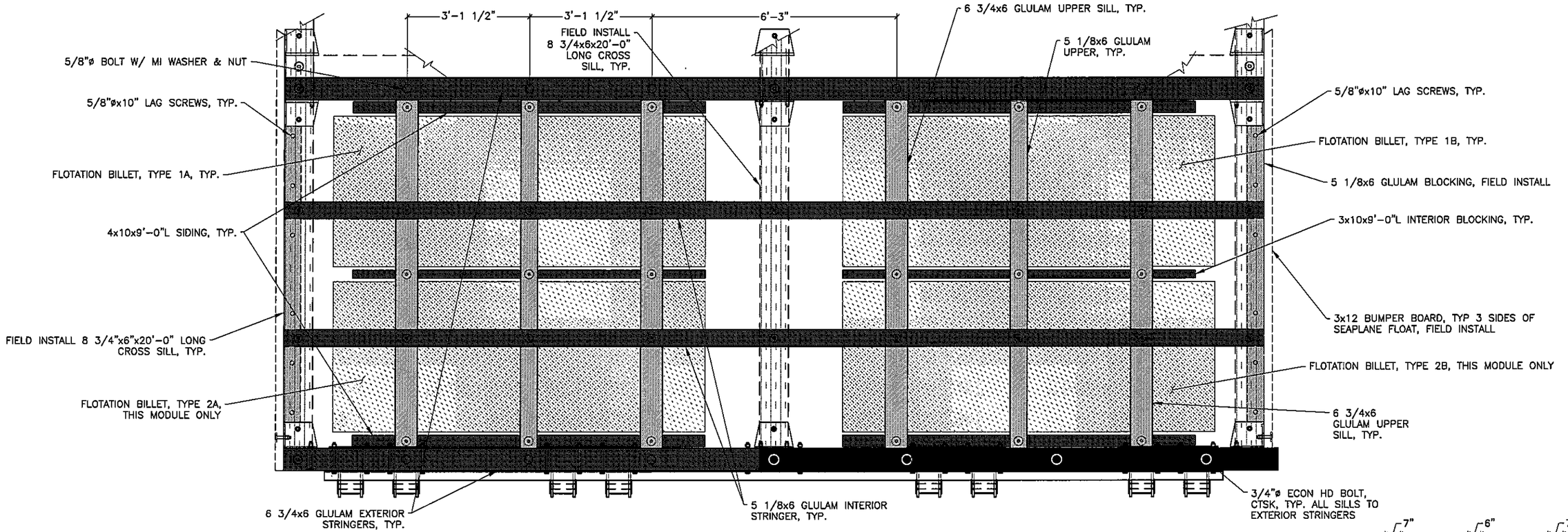
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

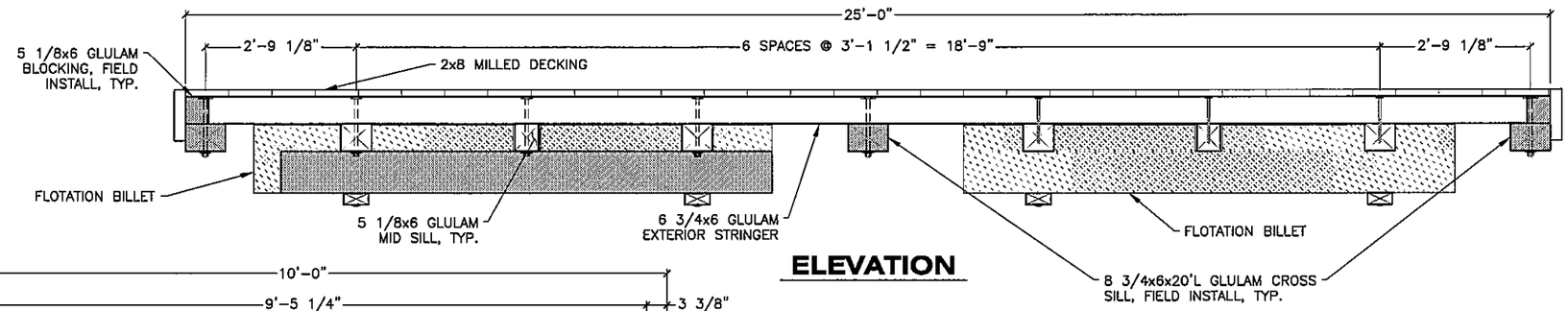
PE M/Edwards Date 11/13/2017

DESIGNED BY: C. DUBOIS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOAST REGION
STATE OF ALASKA 49th DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER	**PORT ALEXANDER OUTER HARBOR IMPROVEMENTS** **20' x 25' SEAPLANE FLOAT**
CHECKED BY: D. LOWELL	
DRAWN BY: STAFF	
PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\15 - SEAPLANE FLOAT LAYOUT.DWG	
TAB: 15	

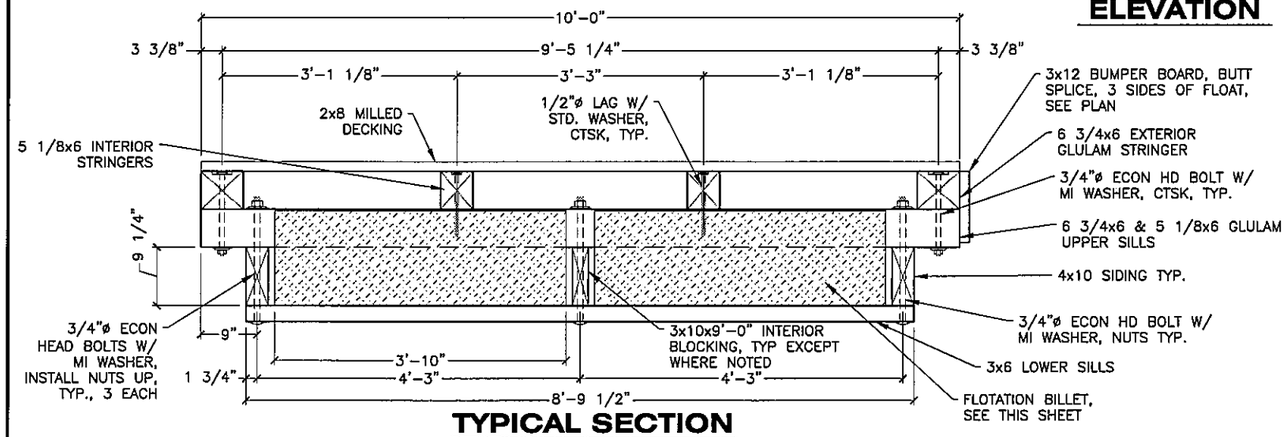
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	15	23



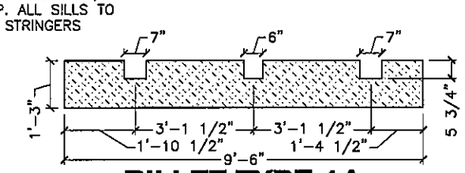
PLAN



ELEVATION

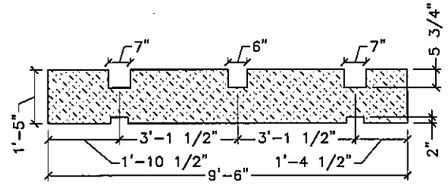


TYPICAL SECTION



BILLET TYPE 1A

(TYPE 1B OPPOSITE HAND ALONG END)



BILLET TYPE 2A

(TYPE 2B OPPOSITE HAND ALONG END)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edwards Date 11/12/2017

DESIGNED BY: C. DUBOIS
CHECKED BY: D. LOWELL
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

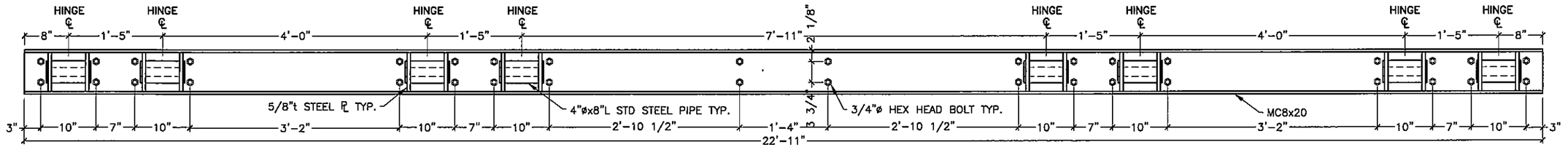
STATE OF ALASKA 49th DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER

PORT ALEXANDER OUTER HARBOR IMPROVEMENTS

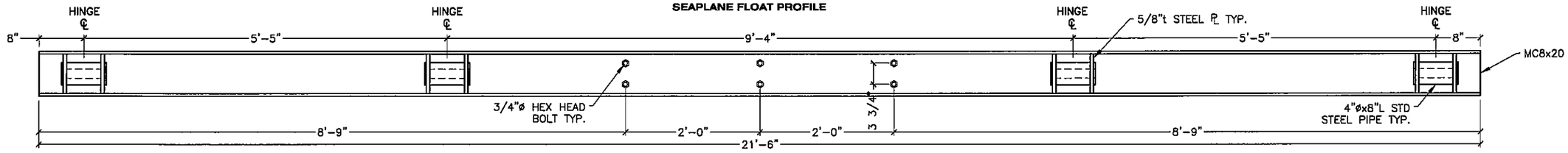
TYPICAL SEAPLANE FLOAT MODULE

PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\16 - TYPICAL SEAPLANE FLOAT MODULE.DWG
TAB: 16

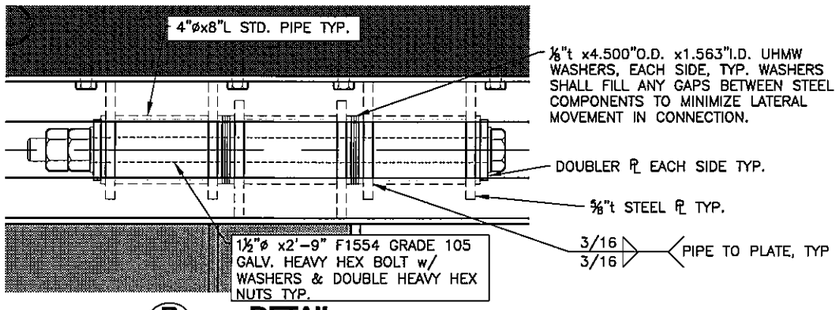
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	16	23



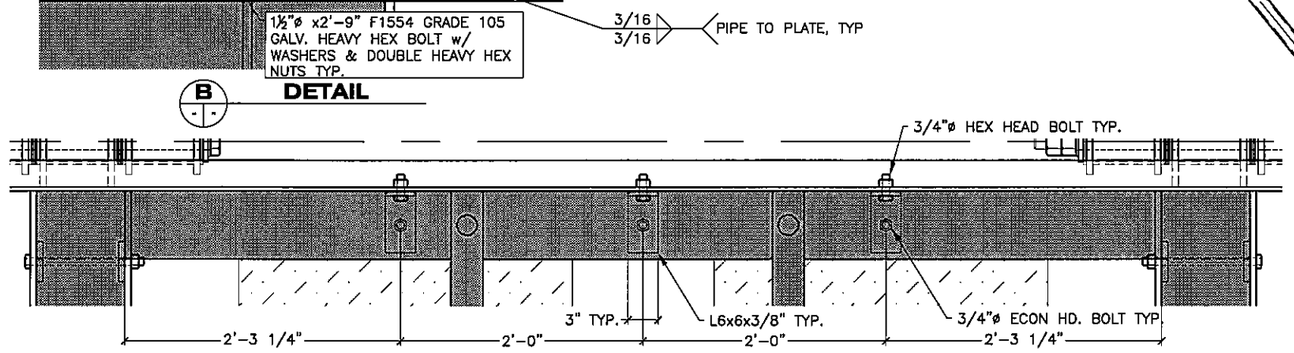
CONNECTION HINGE A
SEAPLANE FLOAT PROFILE



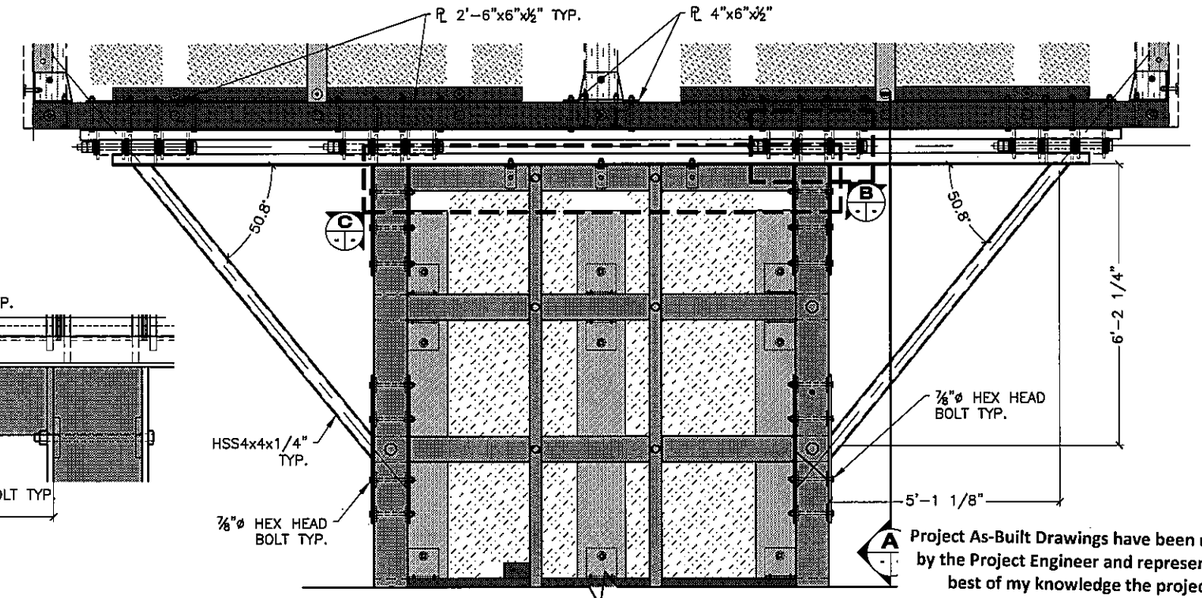
CONNECTION HINGE B
MAIN FLOAT PROFILE



B DETAIL



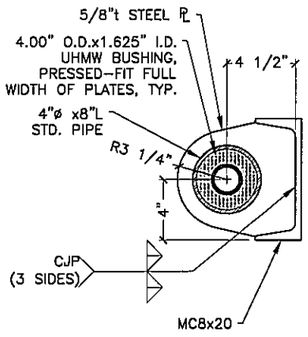
C DETAIL



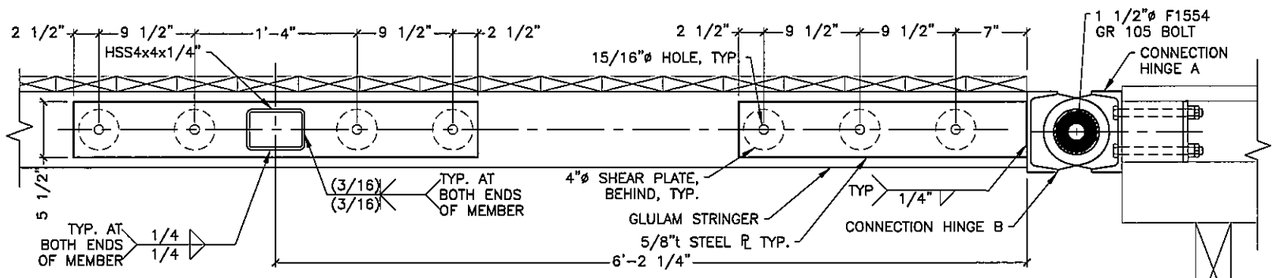
A Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edmonds Date 11/12/2017

SEAPLANE FLOAT HINGE CONNECTION
VIEW DESCRIPTION



TYPICAL HINGE



A TYPICAL SECTION

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS
DRAWN BY: STAFF
CHECKED BY: D. LOWELL
3/17/17

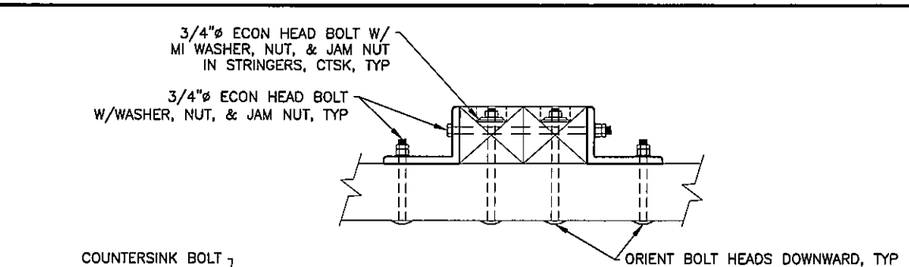
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

PORT ALEXANDER OUTER HARBOR IMPROVEMENTS

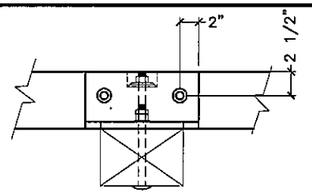
SEAPLANE FLOAT HINGE

PATH: O:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\17, 18 - SEAPLANE FLOAT HINGE & CROSS
TAB: 17

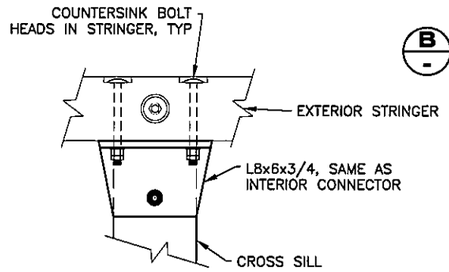
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	17	23



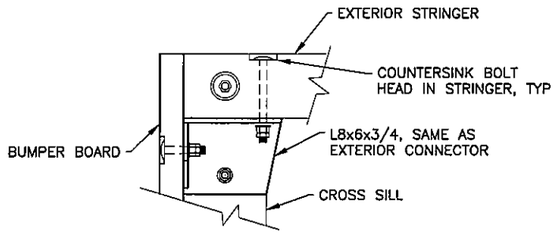
B - SECTION



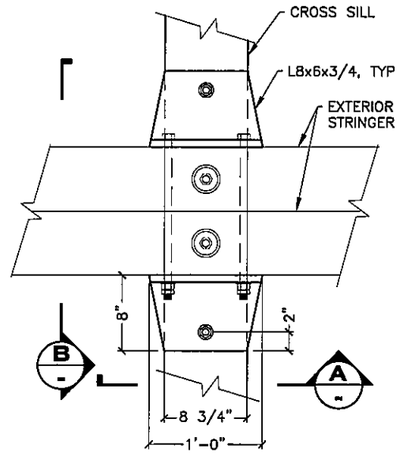
A - SECTION



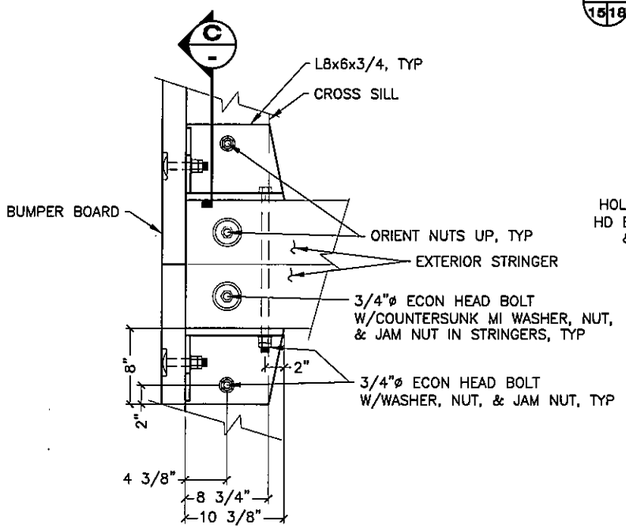
3 (15|18) END CONNECTOR PLAN



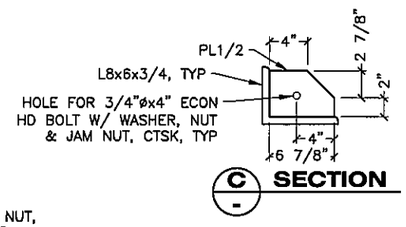
4 (15|18) CORNER CONNECTOR PLAN



1 (15|18) INTERIOR CONNECTOR PLAN



2 (15|18) EXTERIOR CONNECTOR PLAN



C - SECTION

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edwards Date 11/13/2017

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS
CHECKED BY: D. LOWELL
DRAWN BY: STAFF

STATE OF ALASKA — 49th — DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER
3/17/17

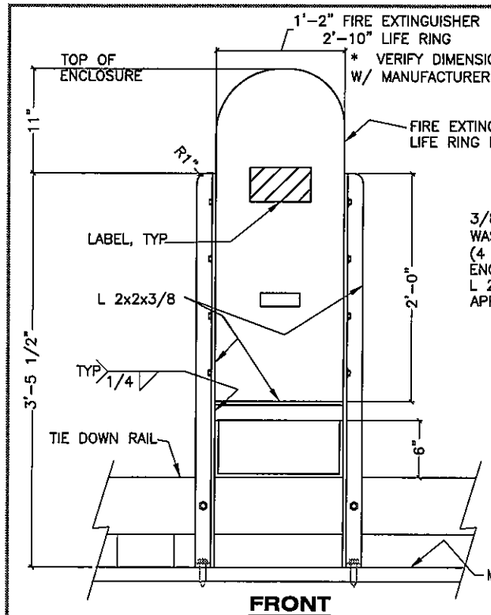
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

PORT ALEXANDER OUTER HARBOR IMPROVEMENTS

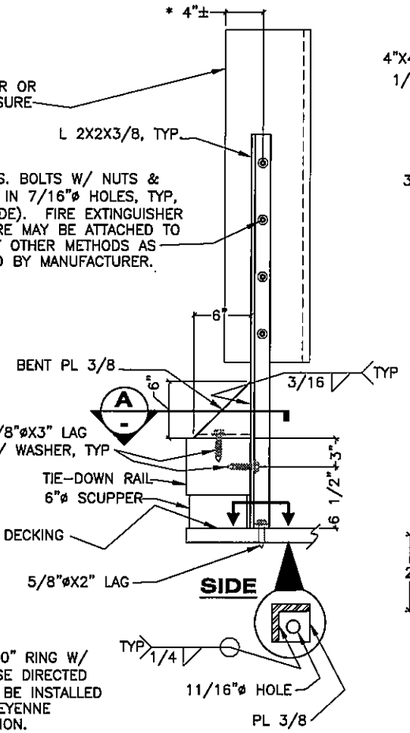
SEAPLANE FLOAT CROSS SILL CONNECTORS

PATH: O:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\17, 18 - SEAPLANE FLOAT HINGE & CROSS
TAB: 18

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	18	23



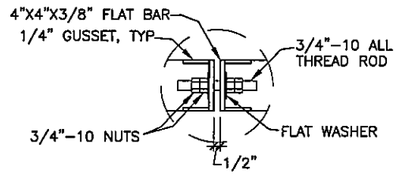
FRONT



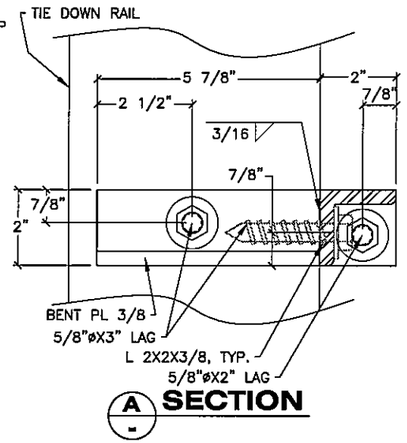
SIDE

NOTE:
PROVIDE 20 LB. FIRE EXTINGUISHERS RATED FOR 2A, 20-B:C. & 30" RING W/ 90' ROPE, AS REQUIRED. (LOCATE WHERE NOTED 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, CHEYENNE PRODUCTS OR EQUAL. HOT DIP GALVANIZE FRAME AFTER FABRICATION.

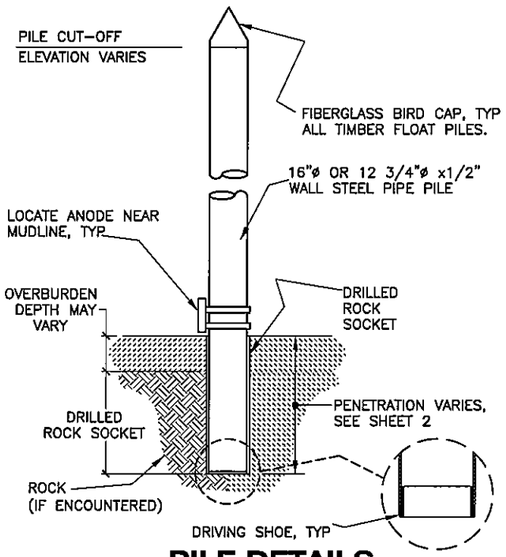
FIRE EXTINGUISHER/LIFE RING ENCLOSURE



1 DETAIL



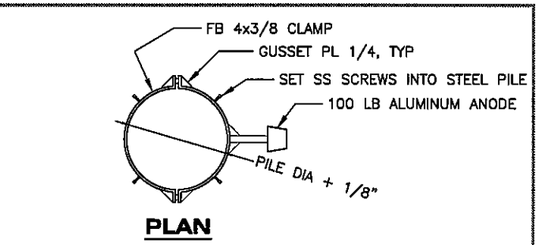
A SECTION



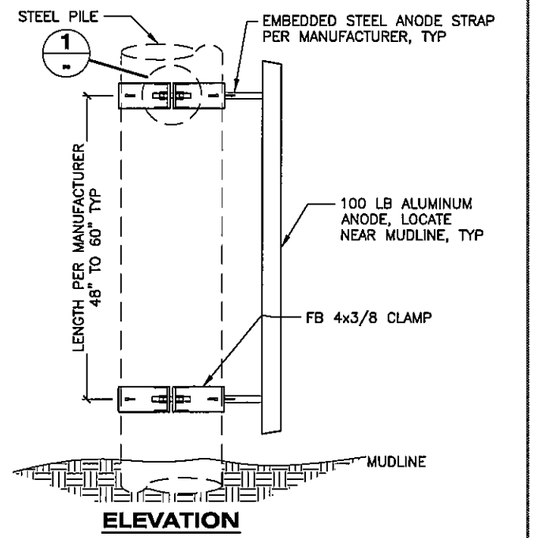
PILE DETAILS

PILE NOTES:

1. DRIVE ALL PILES TO ESTIMATED TIP ELEVATION UNLESS OTHERWISE APPROVED BY THE ENGINEER. SEE SHEET 2 FOR ESTIMATED TIP, PILE CUTOFF ELEVATIONS AND PILE LENGTHS.
2. AT PILE LOCATIONS WHERE THE ESTIMATED TIP ELEVATION CANNOT BE ACHIEVED DUE TO REFUSAL ON ROCK, DRILL A ROCK SOCKET TO THE DEPTH OF THE ESTIMATED TIP ELEVATION. THE DRILLED ROCK SOCKET NEED NOT EXCEED A DEPTH OF GREATER THAN 10 FEET BELOW THE SURFACE OF THE ENCOUNTERED ROCK.

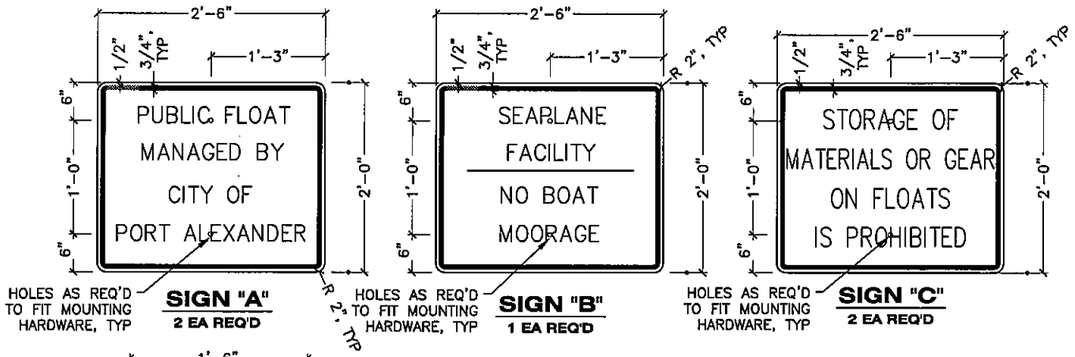


PLAN

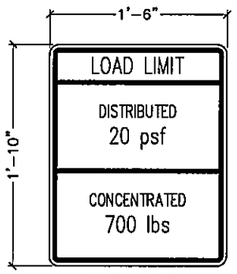


ELEVATION

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



SIGN "A" — 2 EA REQ'D
SIGN "B" — 1 EA REQ'D
SIGN "C" — 2 EA REQ'D

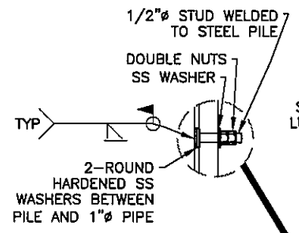


SIGN "D"
1 EA REQ'D

SIGN NOTES:

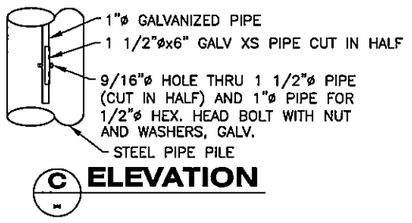
1. INSTALL SIGNS TO BE VISIBLE TO APPROACHING TRAFFIC, AT LOCATIONS AND ORIENTATION SHOWN.
2. SIGNS SHALL HAVE BLACK LEGEND ON WHITE BACKGROUND. 2.5" HIGH LETTERS, TYP. SIGN FABRICATION AND MATERIALS SHALL ALSO CONFORM TO SECTION 615 OF THE STANDARD SPECIFICATIONS. SIGN LETTERING SHALL CONFORM TO THE SIZE AND STYLE AS SHOWN IN THE PLANS AND THE ALASKA SIGN DESIGN DESIGNATION (ASDS).
3. AFFIX SIGNS TO STEEL PILES WITH 2 EACH, 3/4-INCH WIDE STAINLESS STEEL BANDS PER SIGN AND ASSOCIATED MOUNTING HARDWARE TO MATCH.
4. AFFIX SIGNS TO RAILINGS AT APPLICABLE LOCATIONS SHOWN ON THE PLANS.
5. 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.

SIGNS



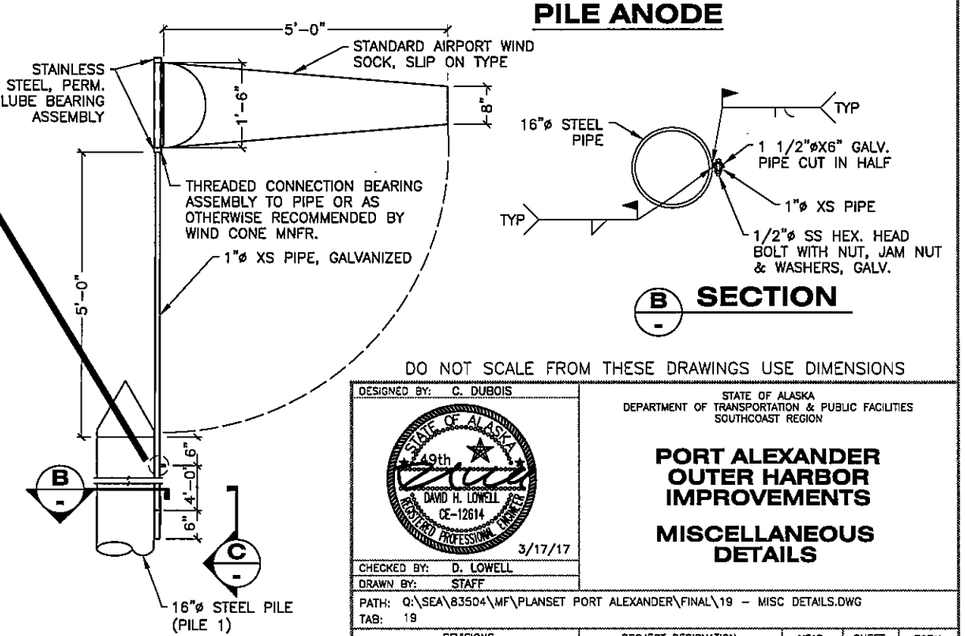
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edwards Date 11/13/2017



C ELEVATION

PILE ANODE



WIND SOCK

B SECTION

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS
CHECKED BY: D. LOWELL
DRAWN BY: STAFF
3/17/17

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

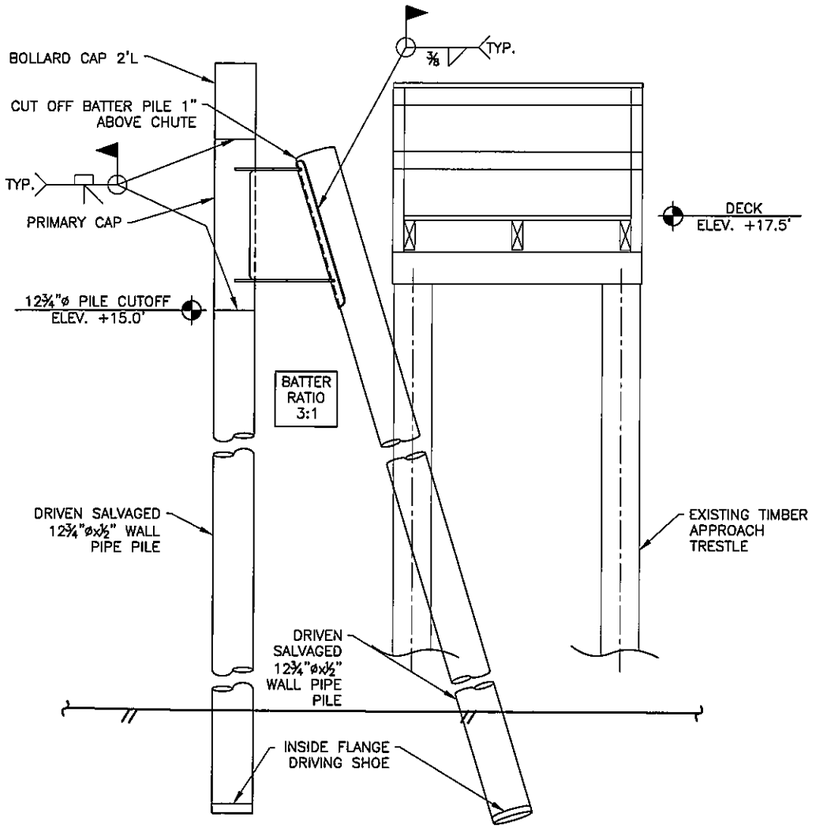
PORT ALEXANDER OUTER HARBOR IMPROVEMENTS

MISCELLANEOUS DETAILS

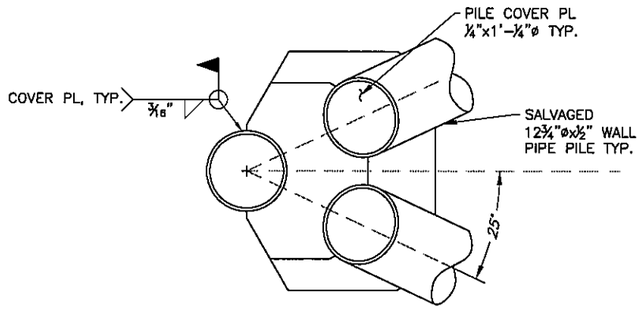
PATH: O:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\19 - MISC DETAILS.DWG
TAB: 19

REVISIONS NO.	DATE	DESCRIPTION

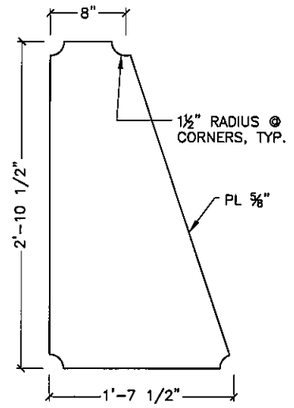
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
Z835040000	2017	19	23



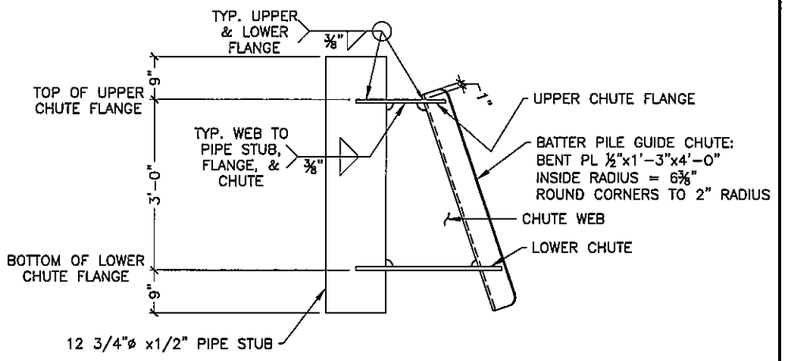
SIDE ELEVATION
DETAILS



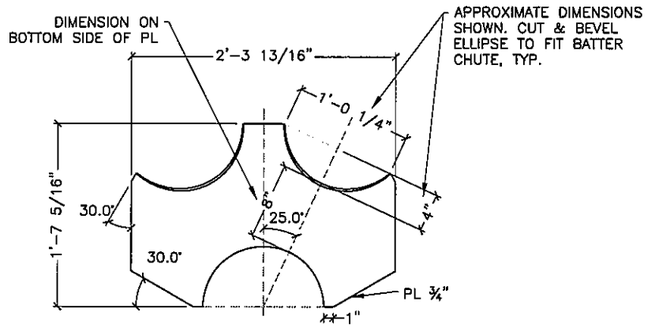
PLAN



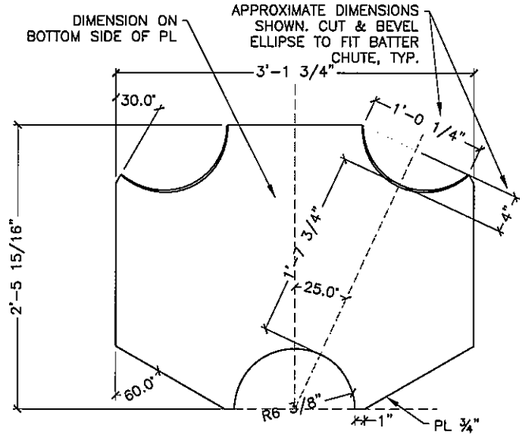
CHUTE WEB
DETAILS



CAP ASSEMBLY
DETAILS



UPPER CHUTE FLANGE
DETAILS



LOWER CHUTE FLANGE
DETAILS

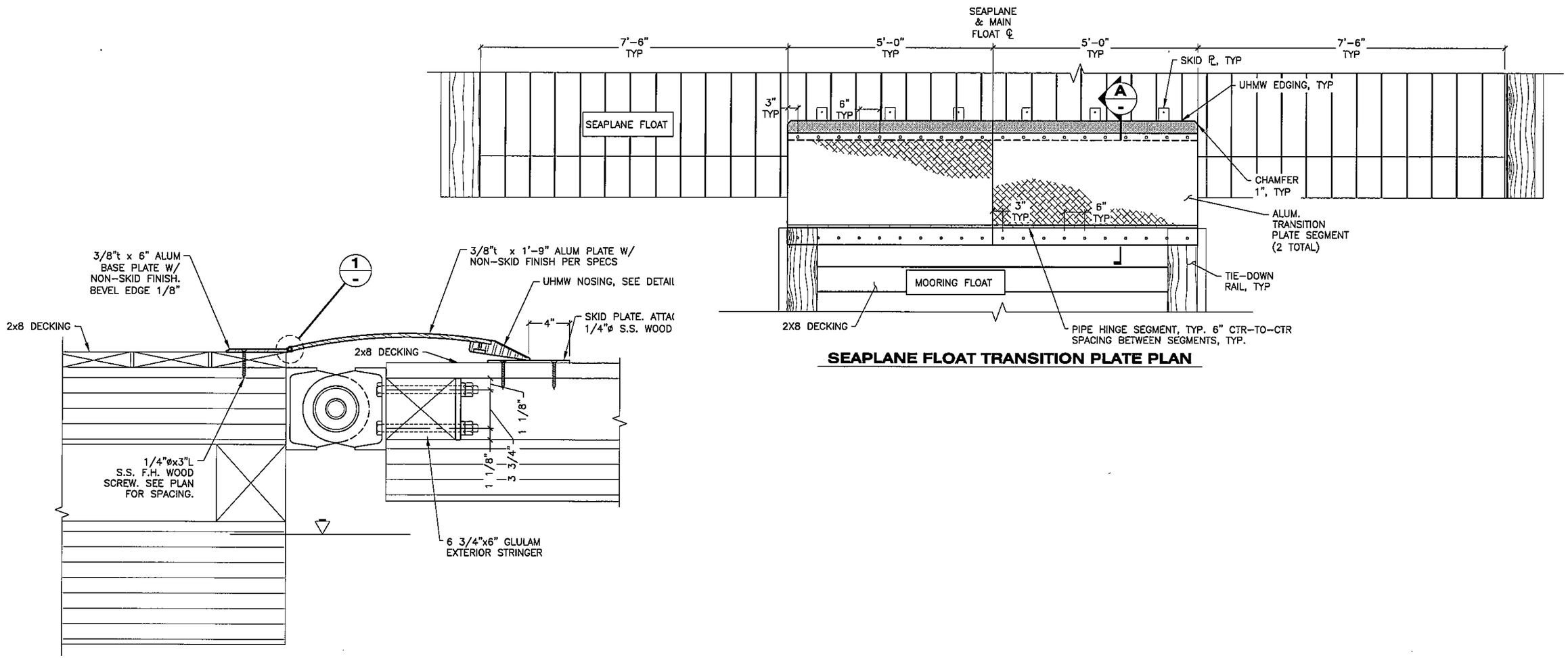
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edwards Date 11/13/2017

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

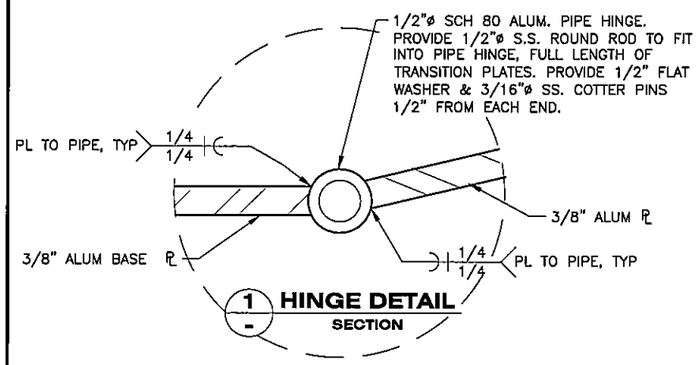
DESIGNED BY: C. DUBOIS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOAST REGION
STATE OF ALASKA 49th DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER 3/17/17	**PORT ALEXANDER OUTER HARBOR IMPROVEMENTS** **3-PILE DOLPHIN**
CHECKED BY: D. LOWELL	
DRAWN BY: STAFF	
PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\20 - 3-PILE DOLPHIN.DWG	
TAB: 20	

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	20	23

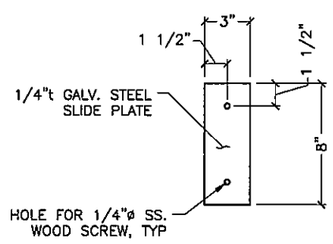


SEAPLANE FLOAT TRANSITION PLATE PLAN

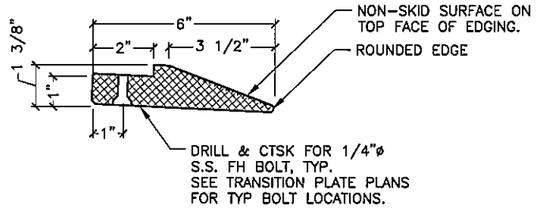
A – TRANSITION PLATE INSTALLED
ELEVATION



1 – HINGE DETAIL
SECTION



SKID PLATE
6 @ SEAPLANE FLOAT, 3 @ APPROACH DOCK



UHMW EDGING DETAIL
SECTION

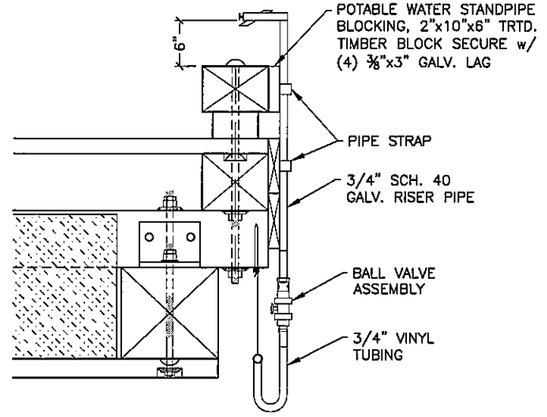
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edmonds Date 11/13/2017

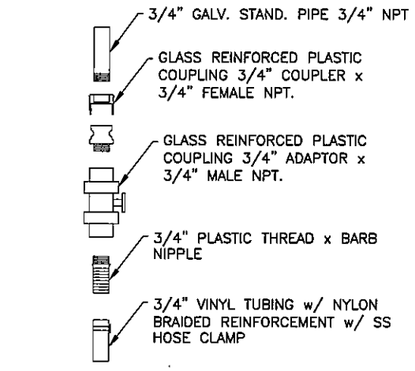
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHCOAST REGION
STATE OF ALASKA 49th DAVID H. LOWELL CE–12614 REGISTERED PROFESSIONAL ENGINEER 3/17/17	**PORT ALEXANDER OUTER HARBOR IMPROVEMENTS** **TRANSITION PLATE DETAILS**
CHECKED BY: D. LOWELL	
DRAWN BY: STAFF	
PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\21 – TRANSITION PLATE DETAILS.DWG	
TAB: 21	

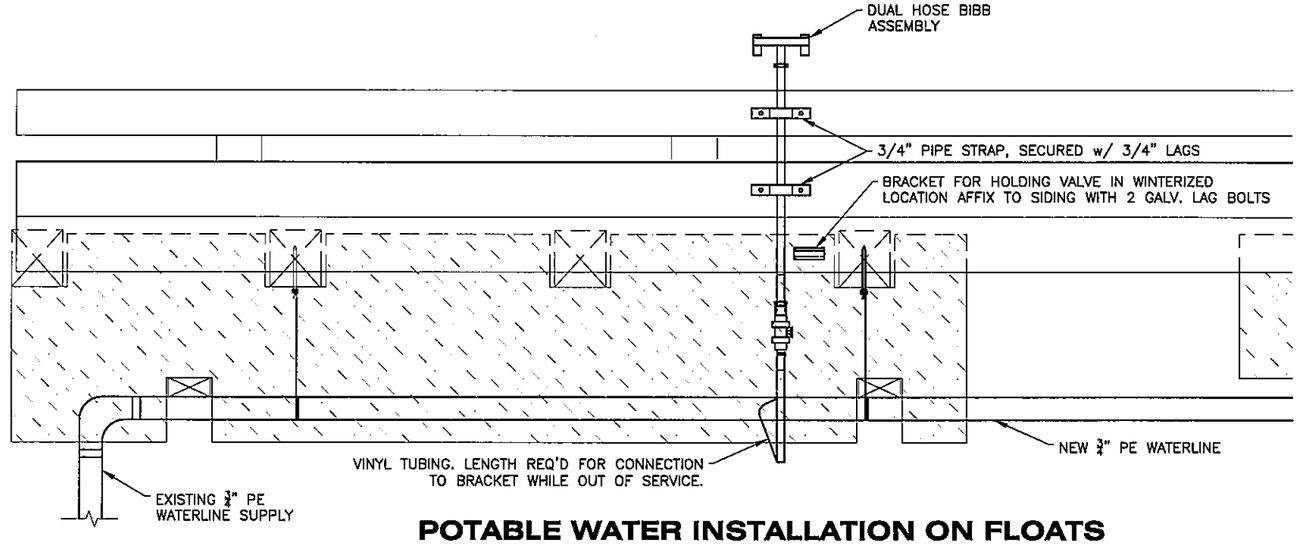
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	21	23



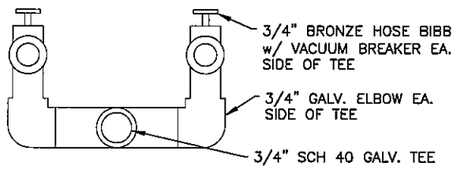
TYPICAL SECTION



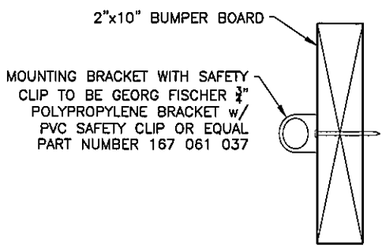
BALL VALVE ASSEMBLY



POTABLE WATER INSTALLATION ON FLOATS



DUAL HOSE BIB ASSEMBLY



TYP. HOLDING BRACKET CONNECTION

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edmonds Date 11/13/2017

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

STATE OF ALASKA 49th DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER
3/17/17

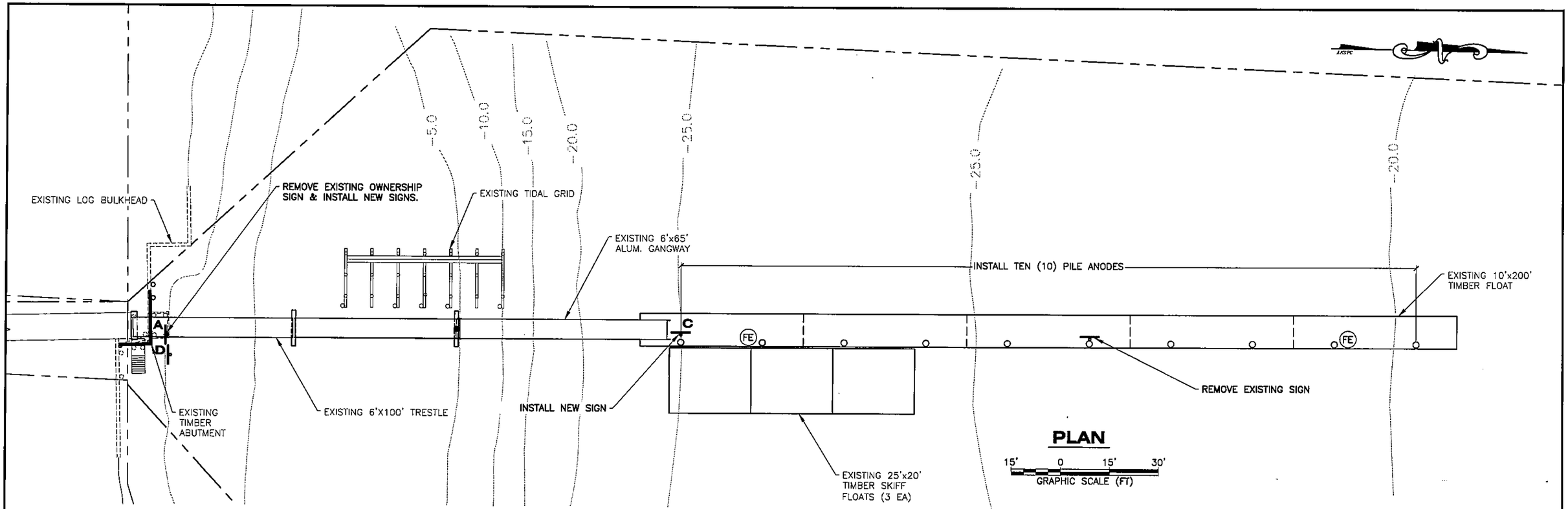
CHECKED BY: D. LOWELL
DRAWN BY: STAFF

PORT ALEXANDER OUTER HARBOR IMPROVEMENTS

WATERLINE DETAILS

PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\22 -WATERLINE DETAILS.DWG
TAB: 22

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			Z835040000	2017	22	23



PLAN

LEGEND:

- ○ EXISTING PILE
- (LR) LIFE RING CABINET
- (FE) FIRE EXTINGUISHER CABINET
- ——— PROPERTY LINE
- # SIGN LETTER / FACE OF SIGN

NOTES:

1. REMOVE EXISTING SIGNS, PROVIDE TO CITY OF PORT ALEXANDER.
2. INSTALL NEW SIGNS AT LOCATION SHOWN.
3. SALVAGE EXISTING ANODES OFF THE BOTTOM. EXISTING ANODES NO LONGER SECURE TO PILING.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE M Edwards Date 11/13/2017

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: C. DUBOIS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOAST REGION

STATE OF ALASKA 49th DAVID H. LOWELL CE-12614 REGISTERED PROFESSIONAL ENGINEER 3/17/17

CHECKED BY: D. LOWELL

DRAWN BY: STAFF

PORT ALEXANDER OUTER HARBOR IMPROVEMENTS

INNER HARBOR WORK

PATH: Q:\SEA\83504\MF\PLANSET PORT ALEXANDER\FINAL\23 - INNER HARBOR WORK.DWG
TAB: 23

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
Z835040000	2017	23	23