



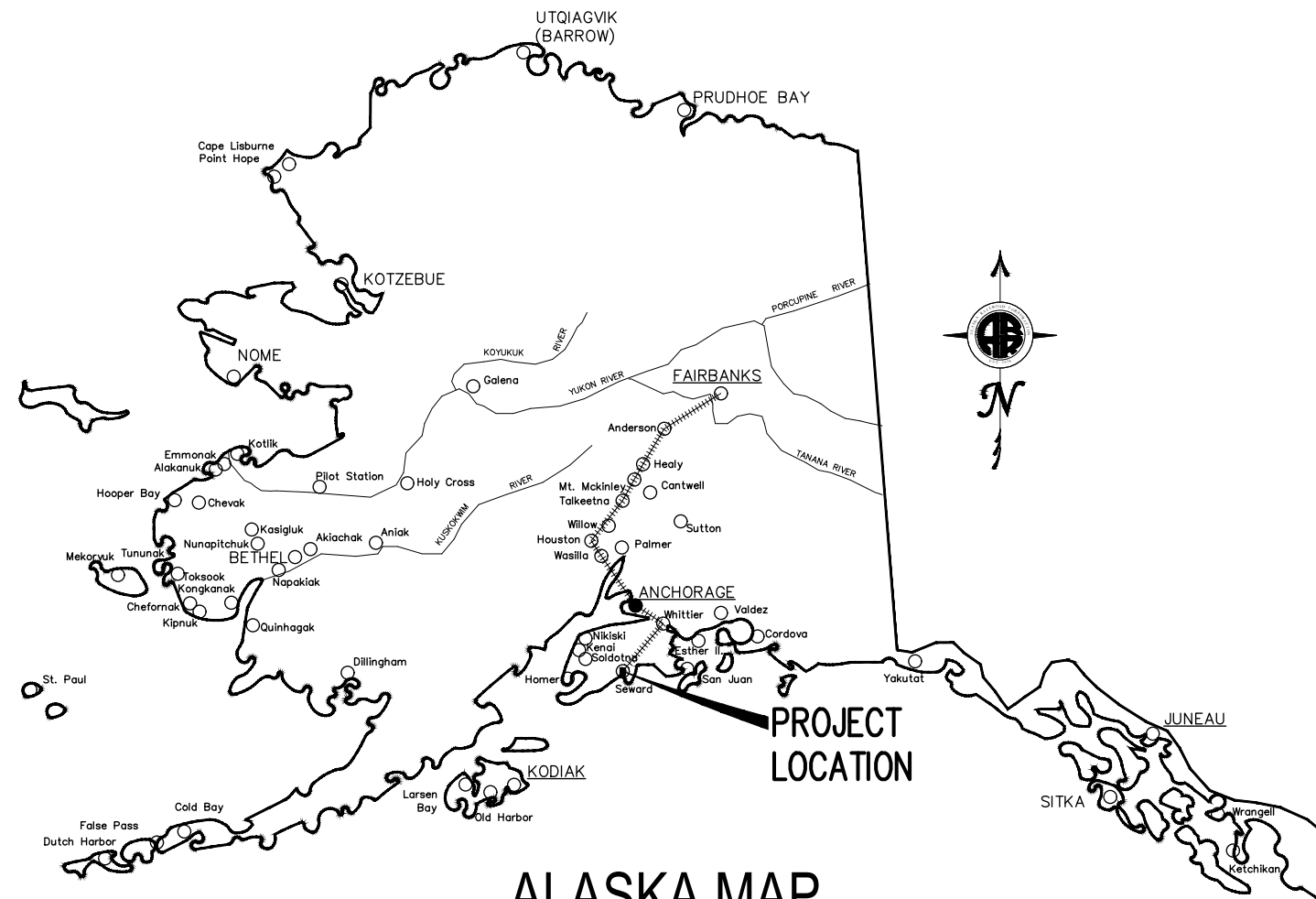
ALASKA RAILROAD CORPORATION
ENGINEERING SERVICES

P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500

SWD FREIGHT DOCK: REPAIRS AND IMPROVEMENTS

REQUEST FOR QUOTE SET

JULY 2019



ALASKA MAP
 NOT TO SCALE

INDEX OF DRAWINGS

SHEET	TITLE
1	G1.0 COVER SHEET
2	G1.1 SITE OVERVIEW - GENERAL WORK LOCATIONS
3	G1.2 TYPICAL FENDER SECTION - ELEVATION VIEW RECORD DRAWING
4	S1.0 24"Ø DRIVEN BOLLARD - ELEVATION VIEW
5	S1.1 TORSION PLATE ASSEMBLY AND DETAILS - FOR 24" x 0.500t PIPE
6	R1.0 2011 INCIDENT - FABRICATION DRAWING - COMPLETE ASSEMBLY 3D VIEWS
7	R1.1 2011 INCIDENT - SHOP DRAWING

P:\Projects\O'Dowd\B\SWD Freight Dock Repairs and Upgrades\SWD Freight Dock Repairs.dwg VPort: G1.0 Plot Style: 750C-Half.ctb

REV.	DATE	BY	REVISION

ALASKA RAILROAD CORPORATION ENGINEERING SERVICES P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500		
PROJECT : ARRC Seward Freight Dock Damage Repairs and Improvements		
TITLE: Cover Sheet		
DESIGNED BY: BAO	SCALE : AS NOTED	AFE NO.:
DRAWN BY: BAO	DATE : 7/10/2019	ACAD FILE:
CHECKED BY: GKT		DWG NO. 1 OF 7
APPROVED BY: BJA		

SEWARD FREIGHT DOCK



≈ 75.0'

(N) - 24"Ø DRIVEN BOLLARD,
APPROXIMATE LOCATION

1
4

(E) - FENDER REMOVAL, REPAIR, AND REPLACEMENT
-11.12.18 INCIDENT

1
3

(E) FENDER REMOVAL, REPAIR, AND REPLACEMENT
-3.15.19 INCIDENT

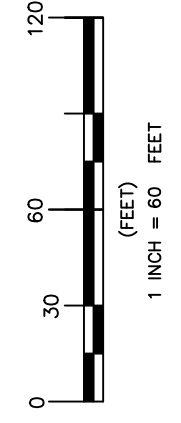
1
3


(E) CATWALK, DOLPHIN CAP, AND S.W. BATTER PILE
REMOVAL AND REPLACEMENT
-2.19.18 INCIDENT

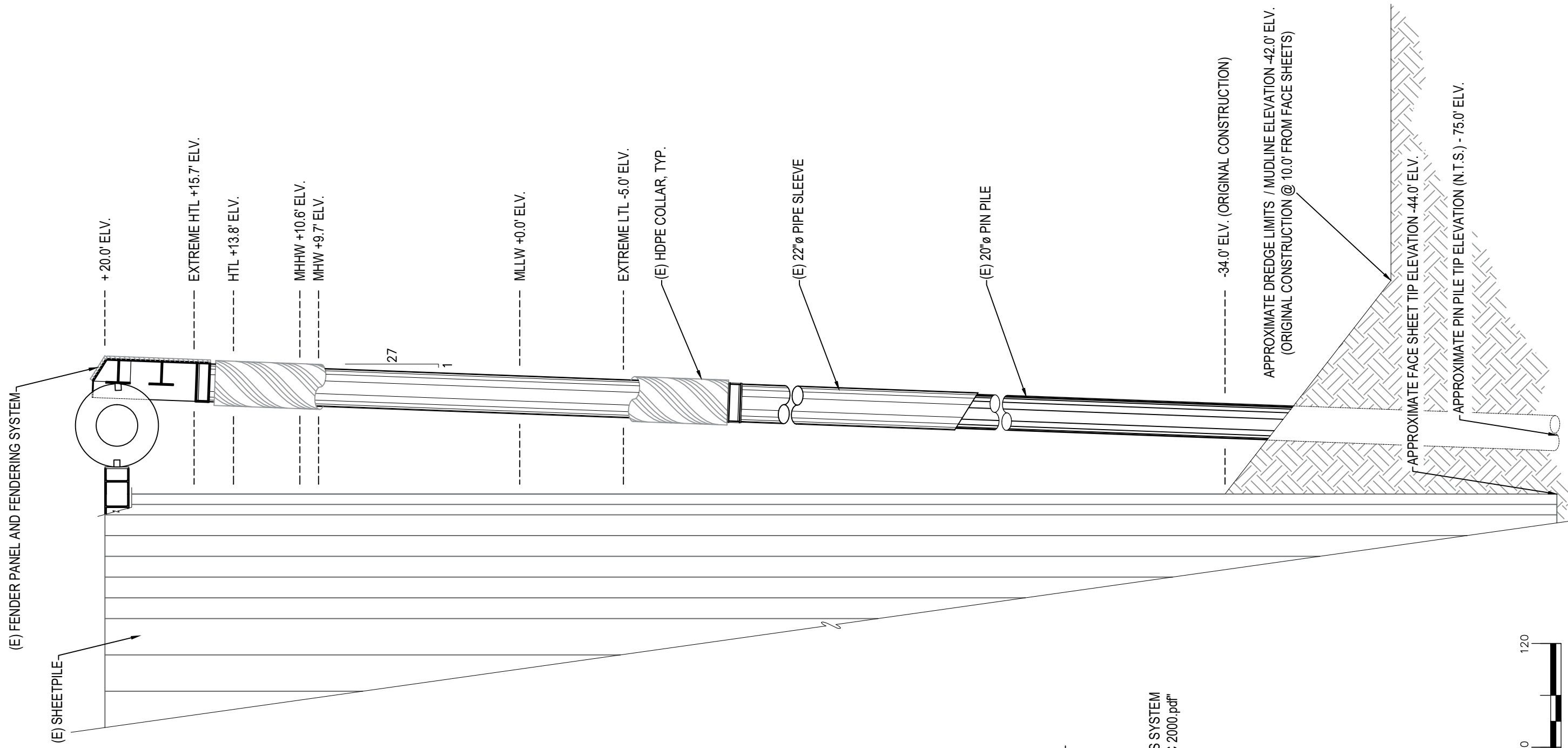
1
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SITE OVERVIEW REPAIR AND IMPROVEMENT GENERAL LOCATIONS

SCALE 1" = 60'



 ALASKA RAILROAD CORPORATION ENGINEERING SERVICES P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500		
PROJECT :		
Seward Freight Dock Damage Repairs and Improvements		
TITLE:		
Site Overview General Work Locations		
DESIGNED BY: BAO	SCALE : AS NOTED	AFE NO.:
DRAWN BY: BAO	DATE : 7/10/2019	ACAD FILE:
CHECKED BY: GKT		DWG NO.
APPROVED BY: BJA		2 OF 7



(E) FENDER PANEL AND FENDERING SYSTEM

(E) SHEETPILE

+ 20.0' ELV.

EXTREME HTL +15.7' ELV.

HTL +13.8' ELV.

MHHW +10.6' ELV.

MHW +9.7' ELV.

MLLW +0.0' ELV.

EXTREME LTL -5.0' ELV.

(E) HDPE COLLAR, TYP.

(E) 22"Ø PIPE SLEEVE

(E) 20"Ø PIN PILE

-34.0' ELV. (ORIGINAL CONSTRUCTION)

APPROXIMATE DREDGE LIMITS / MUDLINE ELEVATION -42.0' ELV.
(ORIGINAL CONSTRUCTION @ 10.0' FROM FACE SHEETS)

APPROXIMATE FACE SHEET TIP ELEVATION -44.0' ELV.

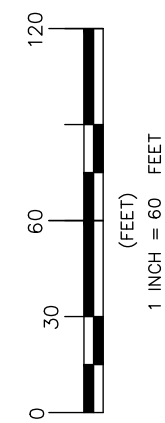
APPROXIMATE PIN PILE TIP ELEVATION (N.T.S.) - 75.0' ELV.


FENDER SECTION

SCALE: AS NOTED

1
3

- NOTES:**
1. ORIGINAL CONSTRUCTION DRAWINGS FOR THIS SYSTEM CAN BE FOUND IN "SEWARD FREIGHT DOCK IFC 2000.pdf"
 - 1.1. DRAWING No. 8 of 17
 - 1.2. DRAWING No. 9 of 17



 ALASKA RAILROAD CORPORATION ENGINEERING SERVICES P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500		
PROJECT : Seward Freight Dock Damage Repairs and Improvements		
TITLE: Typical Fender Section Elevation View - Record Drawing		
DESIGNED BY: BAO	SCALE : AS NOTED	AFE NO.:
DRAWN BY: BAO	DATE : 7/10/2019	ACAD FILE:
CHECKED BY: GKT		DWG NO.
APPROVED BY: BJA		3 OF 7

1
4

24"Ø DRIVEN BOLLARD

SCALE: AS NOTED

1/2" CAP PLATE

9"

2'

1'-11 1/4"

SEAL WELD
GRIND SMOOTH

PIPE TO BOLLARD, TYP

(6"Ø - 1/2" t) PLATE CAP

SEAL WELD, TYP
GRIND SMOOTH

6"Ø X-STRONG PIPE (6.63"Ø X 0.432")
THRU BOLLARD

8 1/2"

2'-8 1/4"

1'-11 3/4"


24.0"Ø X 0.500" T

≈40.0'

P:\Projects\O'Dowd\B\SWD Freight Dock Repairs and Upgrades\SWD Freight Dock Repairs.dwg VPort: S1.0 Plot Style: 750C-Half.ctb



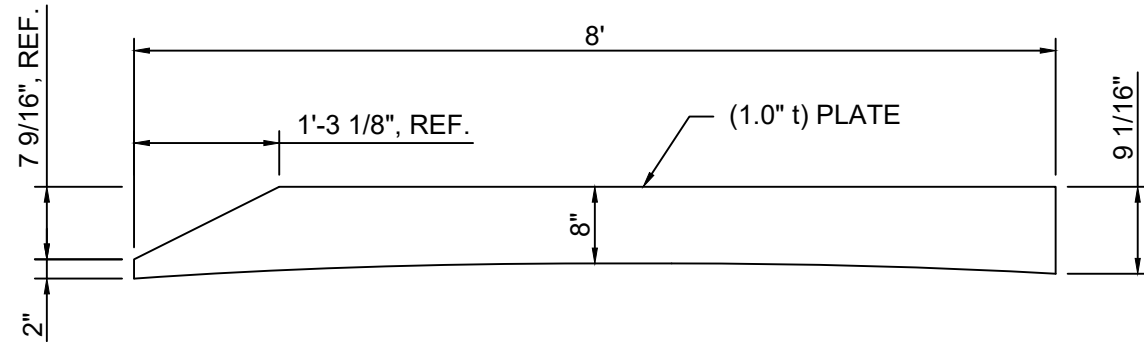
Know what's below.
Call 811 before you dig.

 ALASKA RAILROAD CORPORATION ENGINEERING SERVICES P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500		
PROJECT :		
Seward Freight Dock Damage Repairs and Improvements		
TITLE:		
24"Ø Driven Bollard Elevation View		
DESIGNED BY: BAO	SCALE : AS NOTED	AFE NO.:
DRAWN BY: BAO	DATE : 7/10/19	ACAD FILE:
CHECKED BY: GKT		DWG NO. 4 OF 7
APPROVED BY: BJA		

1
5

TORSION PLATE ASSEMBLY

SCALE: AS NOTED

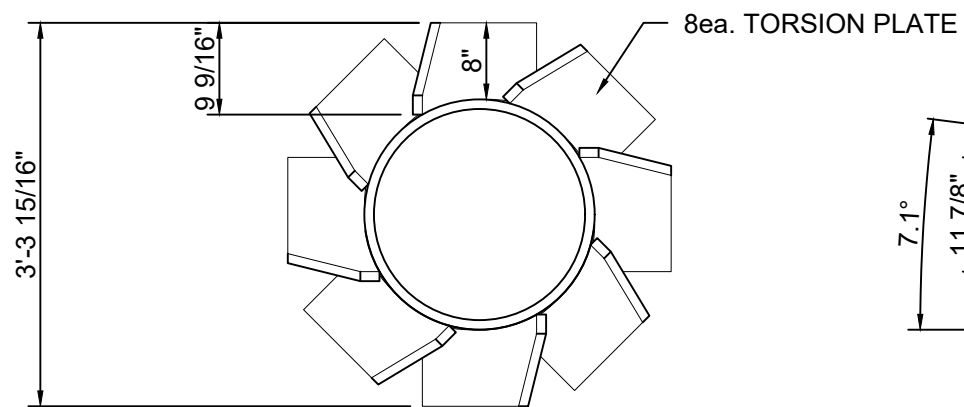
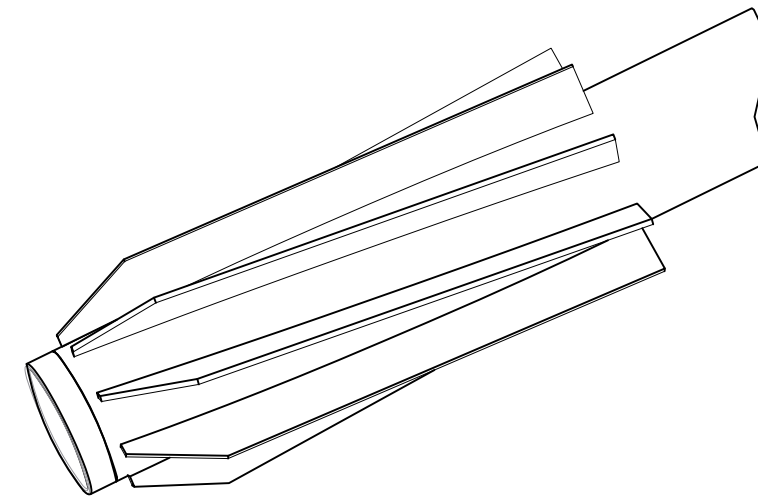


PLAN VIEW - INDIVIDUAL TORSION PLATE

SCALE: AS NOTED

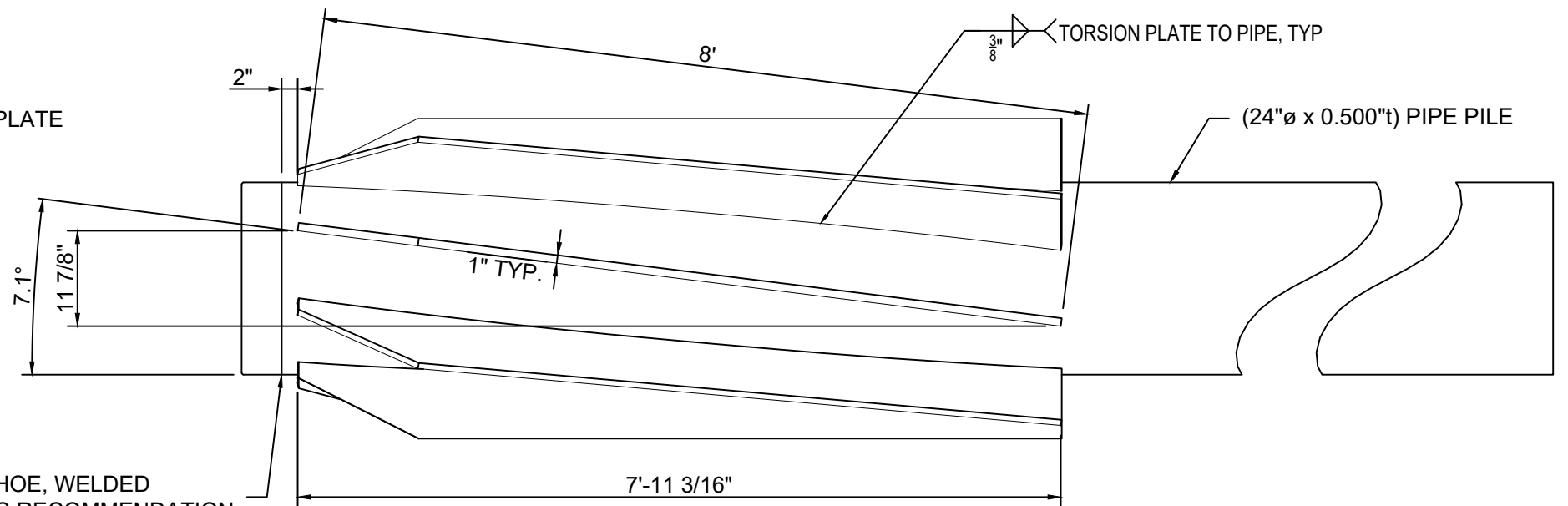
ISOMETRIC VIEW - ASSEMBLED

SCALE: AS NOTED



PLAN VIEW - ASSEMBLED

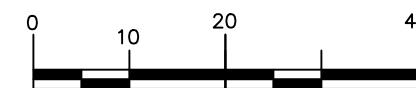
SCALE: AS NOTED




PROFILE VIEW - ASSEMBLED

SCALE: AS NOTED

(N) OPEN DRIVING SHOE, WELDED
PER MANUFACTURES RECOMMENDATION



 ALASKA RAILROAD CORPORATION ENGINEERING SERVICES P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500		
PROJECT :		
Seward Freight Dock Damage Repairs and Improvements		
TITLE:		
Torsion Plate Assembly and Details for 24"ø x 0.500"t Pipe Pile		
DESIGNED BY: BAO	SCALE : AS NOTED	AFE NO.:
DRAWN BY: BAO	DATE : 7/10/19	ACAD FILE:
CHECKED BY: GKT		DWG NO.
APPROVED BY: BJA		5 OF 7