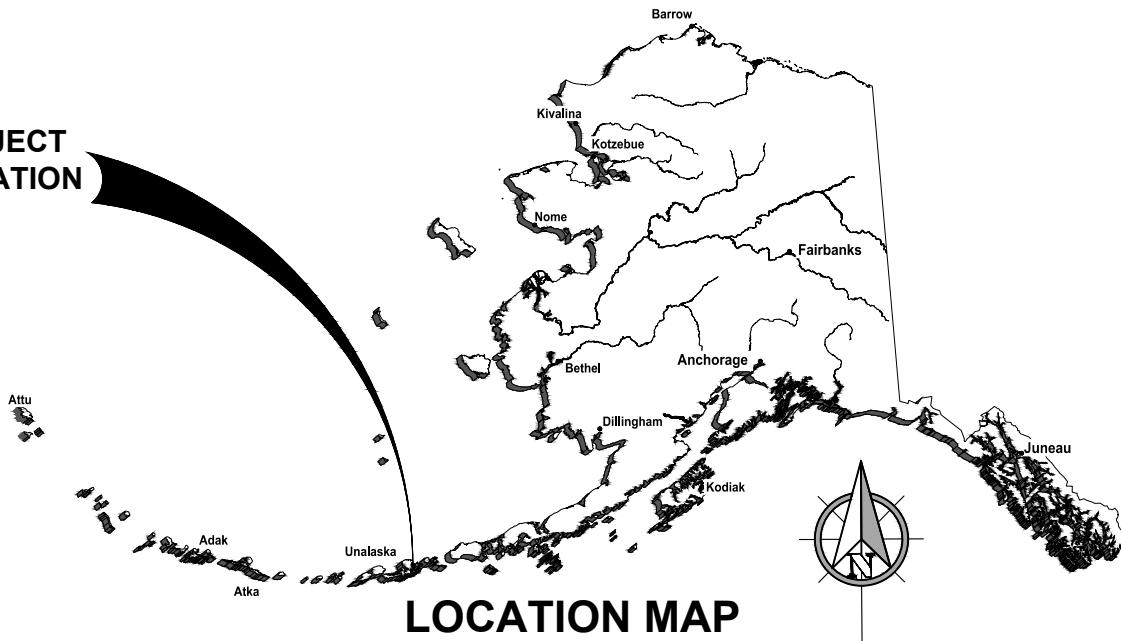


**PROJECT
LOCATION**



LOCATION MAP

**PROJECT
LOCATION**



VICINITY MAP

PURPOSE:

TO REPLACE EXISTING AGING FLOATS & GANGWAY TO
IMPROVE ACCESSIBILITY & PUBLIC SAFETY IN AN
EXISTING HARBOR.

DATUM:

MLLW = 0.0' FT

DATUM SOURCE:

NOAA STATION 946-2620
(UNALASKA, AK)

HTL = 5.2'
MHW = 3.3'

POA-2025-00373

PND#: 242061

**ROBERT STORRS HARBOR
FLOATS A&B REPLACEMENT**

APPLICANT: CITY OF UNALASKA

FILE NO:

WATERWAY: EXPEDITION INLET

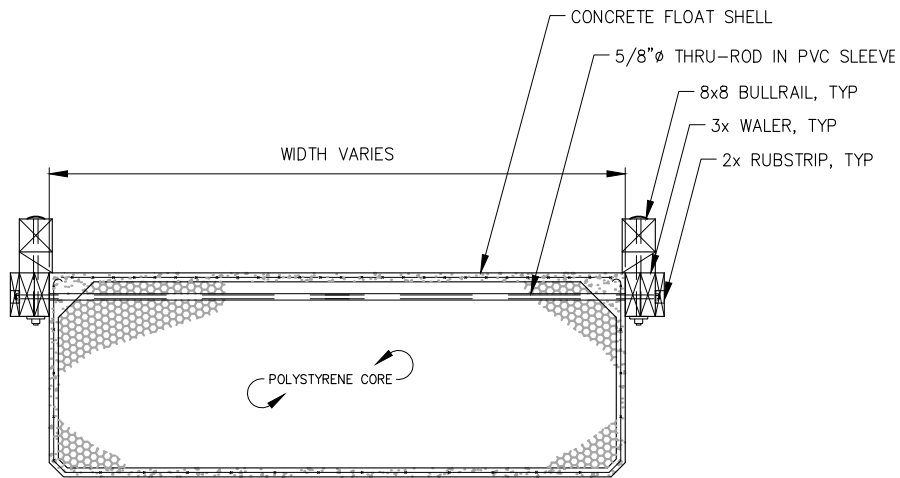
PROPOSED ACTIVITY: MOORAGE FLOAT IMPROVEMENTS

S: 3&10 T: 73S R: 118W M: Seward

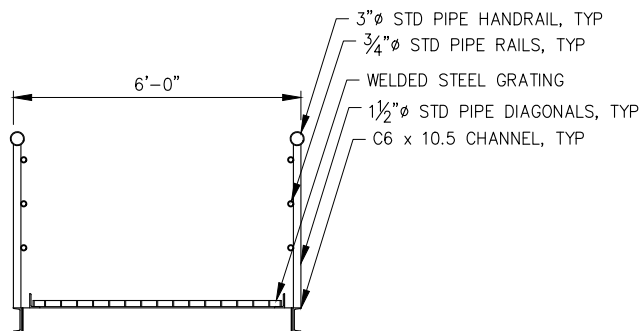
LAT: 53.877960 N LONG: -166.553545 W

DATE: MAY 2025

SHEET 1 OF 9



EXISTING CONCRETE FLOAT - TYPICAL SECTION



EXISTING GANGWAY- TYPICAL SECTION

DEMOLITION DETAILS

ROBERT STORRS HARBOR FLOATS A&B REPLACEMENT

APPLICANT: CITY OF UNALASKA

FILE NO:

WATERWAY: EXPEDITION INLET

PROPOSED ACTIVITY: MOORAGE FLOAT IMPROVEMENTS

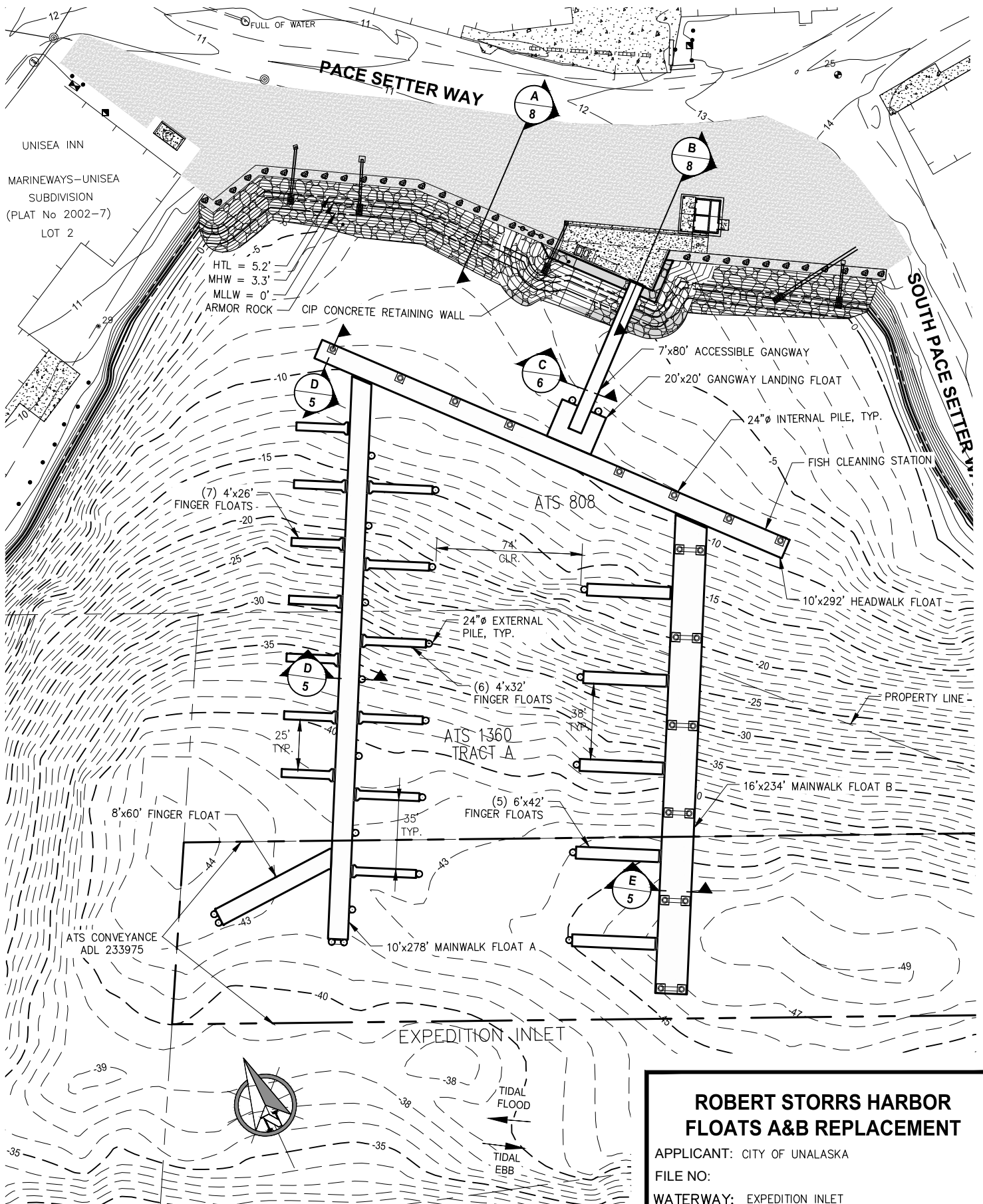
S: 3&10 T: 73S R: 118W M: Seward

LAT: 53.877960 N LONG: -166.553545 W

DATE: MAY 2025

SHEET 3 OF 9

POA-2025-00373



ROBERT STORRS HARBOR FLOATS A&B REPLACEMENT

APPLICANT: CITY OF UNALASKA

FILE NO:

WATERWAY: EXPEDITION INLET

PROPOSED ACTIVITY: MOORAGE FLOAT IMPROVEMENTS

S: 3&10 T: 73S R: 118W M: Seward

LAT: 53.877960 N LONG: -166.553545 W

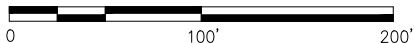
DATE: MAY 2025

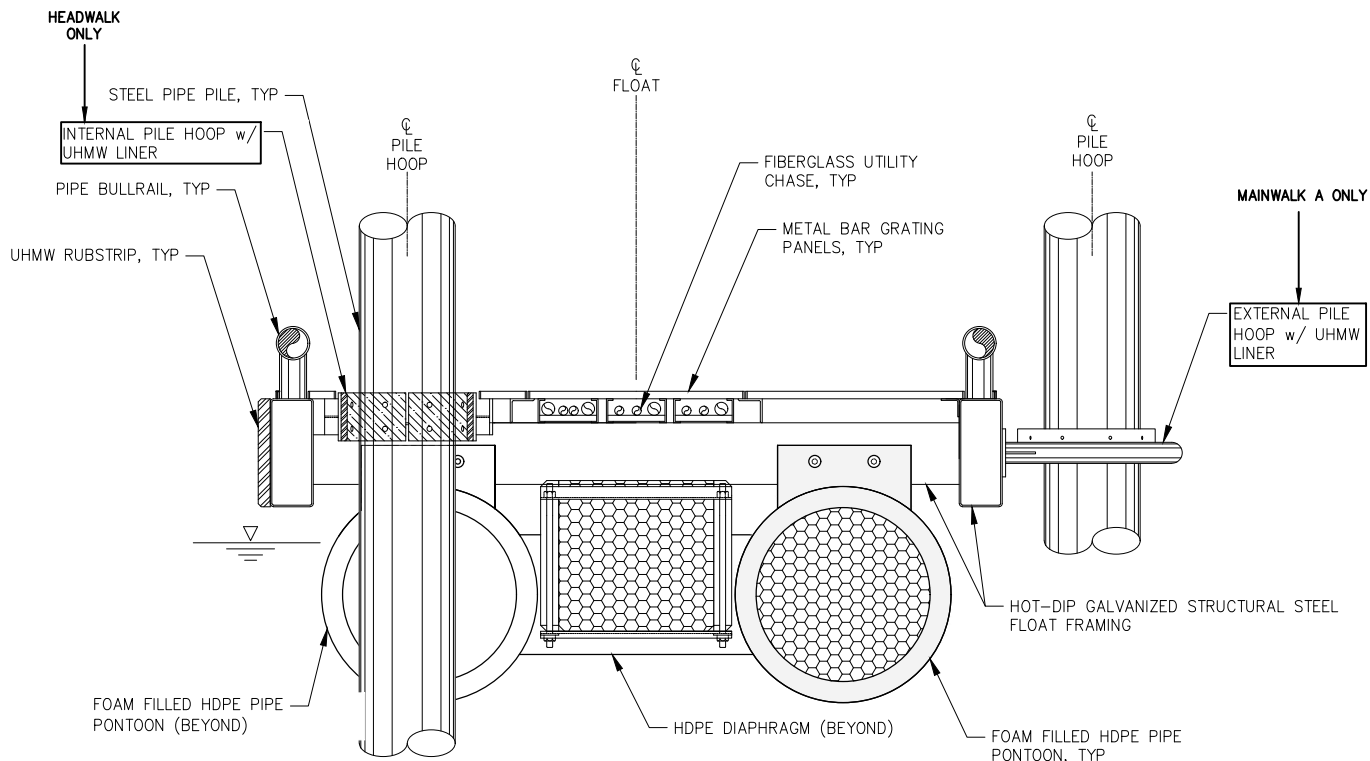
SHEET 4 OF 9

POA-2025-00373

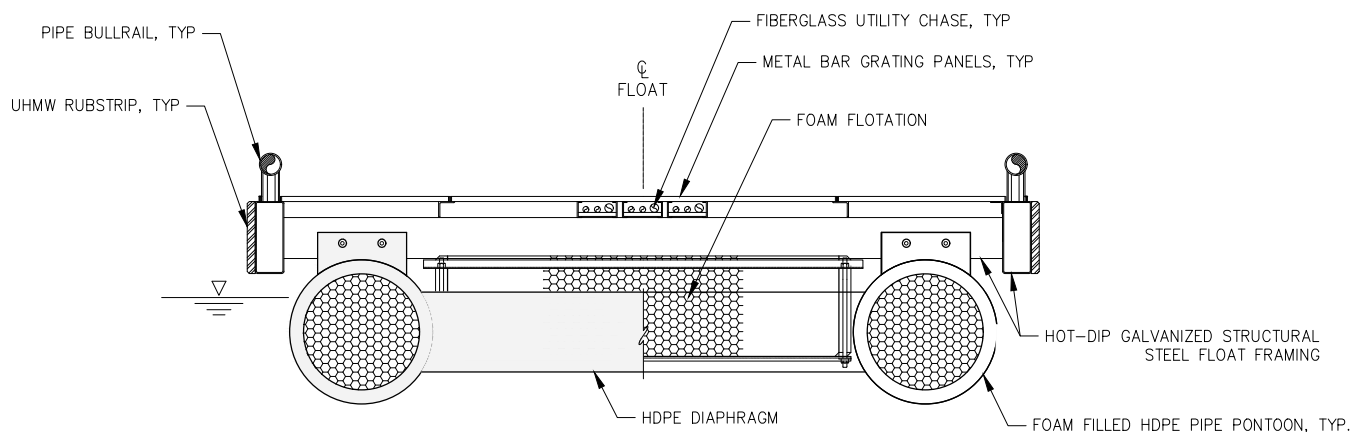
GENERAL SITE PLAN

SCALE IN FEET





D 4 10' WIDE TYPICAL SECTION AT PILE HOOPS LONGITUDINAL PONTOONS



E 4 16' WIDE TYPICAL SECTION AT TEE FLOAT LONGITUDINAL PONTOONS

ROBERT STORRS HARBOR FLOATS A&B REPLACEMENT

APPLICANT: CITY OF UNALASKA

FILE NO:

WATERWAY: EXPEDITION INLET

PROPOSED ACTIVITY: MOORAGE FLOAT IMPROVEMENTS

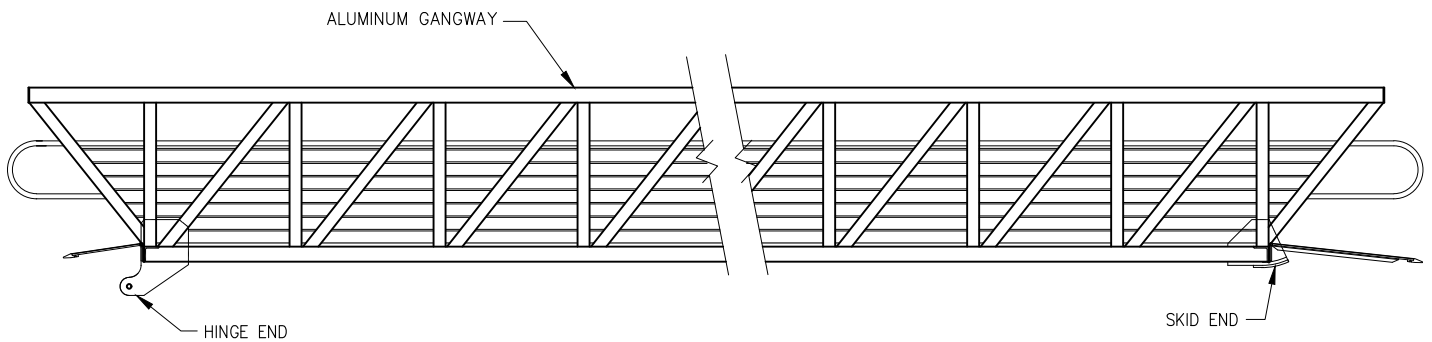
S: 3&10 T: 73S R: 118W M: Seward

LAT: 53.877960 N LONG: -166.553545 W

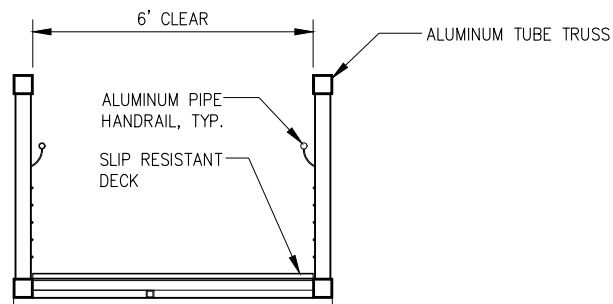
DATE: MAY 2025

SHEET 5 OF 9

POA-2025-00373



GANGWAY ELEVATION



**C
4** **GANGWAY
SECTION**

**ROBERT STORRS HARBOR
FLOATS A&B REPLACEMENT**

APPLICANT: CITY OF UNALASKA

FILE NO:

WATERWAY: EXPEDITION INLET

PROPOSED ACTIVITY: MOORAGE FLOAT IMPROVEMENTS

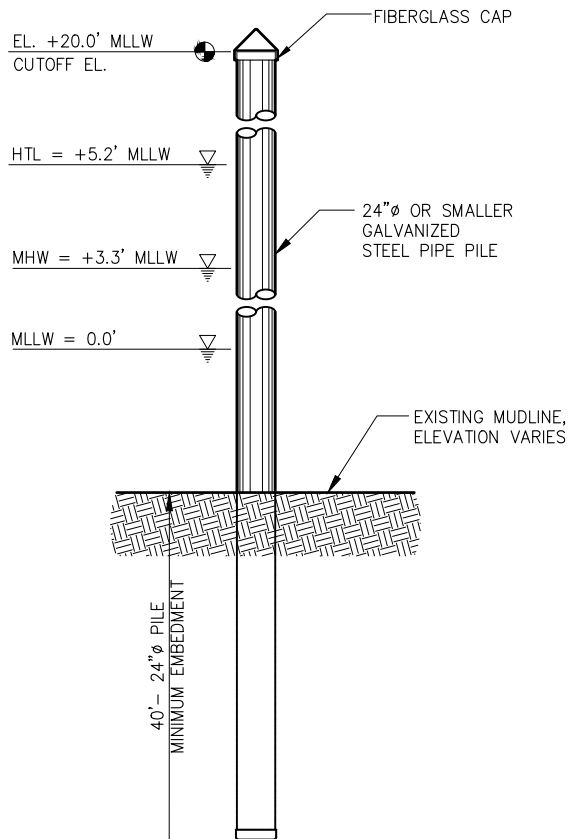
S: 3&10 T: 73S R: 118W M: Seward

LAT: 53.877960 N LONG: -166.553545 W

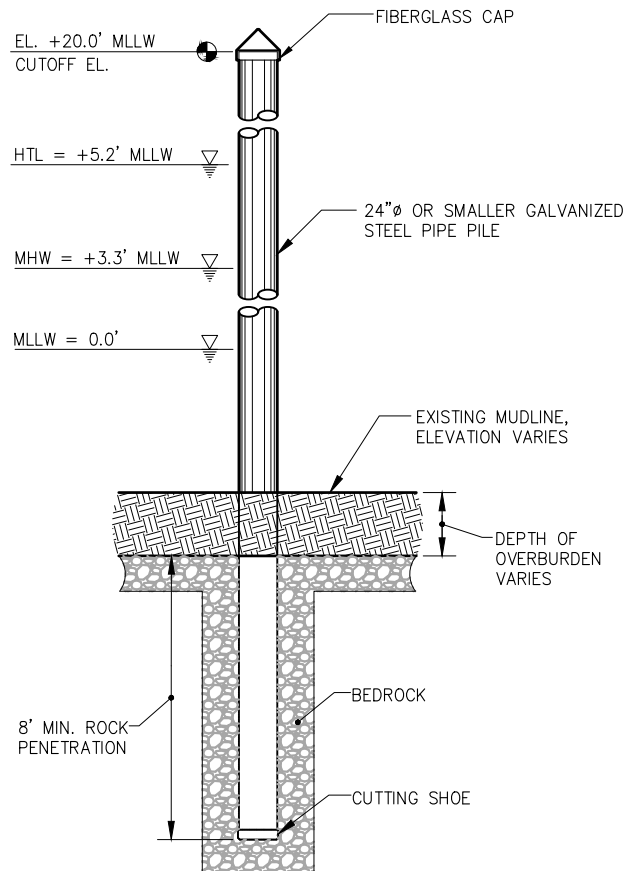
DATE: MAY 2025

SHEET 6 OF 9

POA-2025-00373



STANDARD INSTALLATION



SOCKETED INSTALLATION

NOTE:

1. THE FOLLOWING ARE PROPOSED SOCKETING TECHNIQUES:
 - A. DRILL SOCKET, CLEAN OUT HOLE, DRIVE TO BOTTOM OF SOCKET.

PILE DETAILS

POA-2025-00373

**ROBERT STORRS HARBOR
FLOATS A&B REPLACEMENT**

APPLICANT: CITY OF UNALASKA

FILE NO:

WATERWAY: EXPEDITION INLET

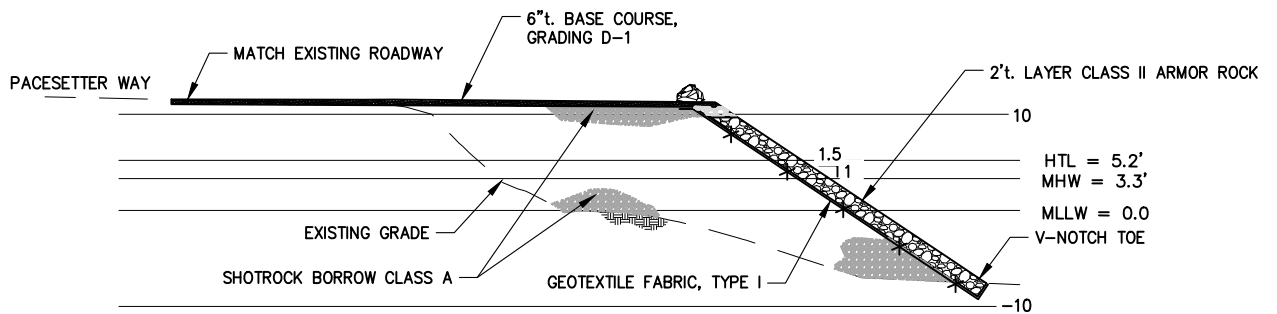
PROPOSED ACTIVITY: MOORAGE FLOAT IMPROVEMENTS

S: 3&10 T: 73S R: 118W M: Seward

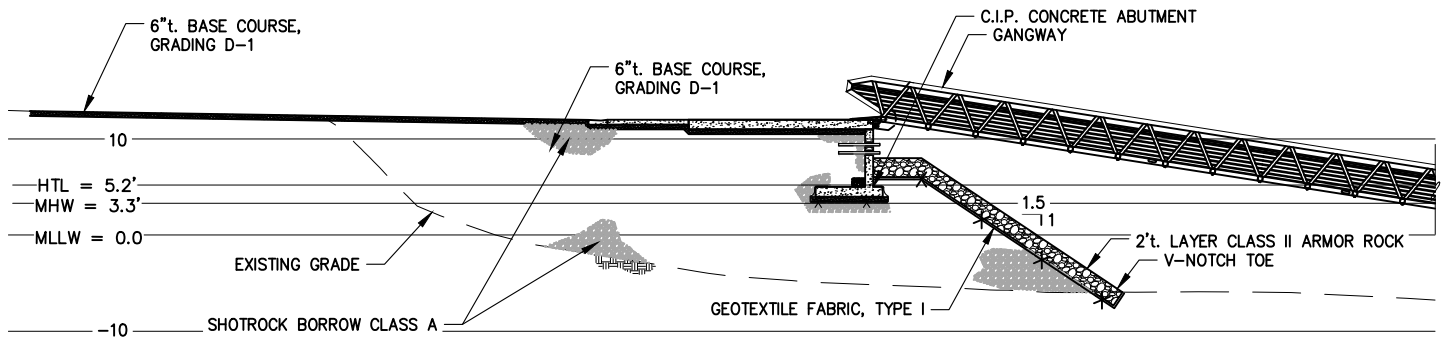
LAT: 53.877960 N LONG: -166.553545 W

DATE: MAY 2025

SHEET 7 OF 9



A
4
TYPICAL SECTION A



B
4
TYPICAL SECTION B

ROBERT STORRS HARBOR FLOATS A&B REPLACEMENT

APPLICANT: CITY OF UNALASKA

FILE NO:

WATERWAY: EXPEDITION INLET

PROPOSED ACTIVITY: MOORAGE FLOAT IMPROVEMENTS

S: 3&10 T: 73S R: 118W M: Seward

LAT: 53.877960 N LONG: -166.553545 W

DATE: MAY 2025

SHEET 8 OF 9

POA-2025-00373

Demolition Quantities

	Project Total	Below HTL (EL = 5.2)	Below MHW (EL = 3.3)	Below MLLW (EL = 0)
Steel Gangway (SF)	300	85	60	50
Concrete Floats (SF)	5940	5940	5940	5940

Fill in Tidal Waters

	Project Total	Below HTL (EL = 5.2)	Below MHW (EL = 3.3)	Below MLLW (EL = 0)
Fill Footprint (acre)	0.75	0.13	0.10	0.06
Armor Rock (CY)	725	450	350	210
Shot Rock Borrow (CY)	5200	2400	2000	1200
Base Course (CY)	425	8	0	0
Utility Trench Excavation & Fill (CY)	30	30	25	25

New Structural Quantities

	Quantity	Units
80' Aluminum Gangway	570	SF
HDPE Pipe Floats	0.30	Acres
Concrete Outfall Structure	6	EA

Piles Installation Summary

	Construction Method	Project Total	Below HTL (EL = 5.2)	Below MHW (EL = 3.3)	Below MLLW (EL = 0)
Removal Existing Steel Piles (16" Diameter)	Vibratory Removal	33	33	33	33
Temporary Template Steel Pipe Pile (Up to 24" Diameter or equivalent)	Vibratory Installation & Removal	5	5	5	5
Installation Steel Pipe Pile (24" Diameter)	Vibratory, Impact, DTH Installation	44	44	44	44

POA-2025-00373

ROBERT STORRS HARBOR FLOATS A&B REPLACEMENT

APPLICANT: CITY OF UNALASKA

FILE NO:

WATERWAY: EXPEDITION INLET

PROPOSED ACTIVITY: MOORAGE FLOAT IMPROVEMENTS

S: 3&10 T: 73S R: 118W M: Seward

LAT: 53.877960 N LONG: -166.553545 W

DATE: MAY 2025

SHEET 9 OF 9