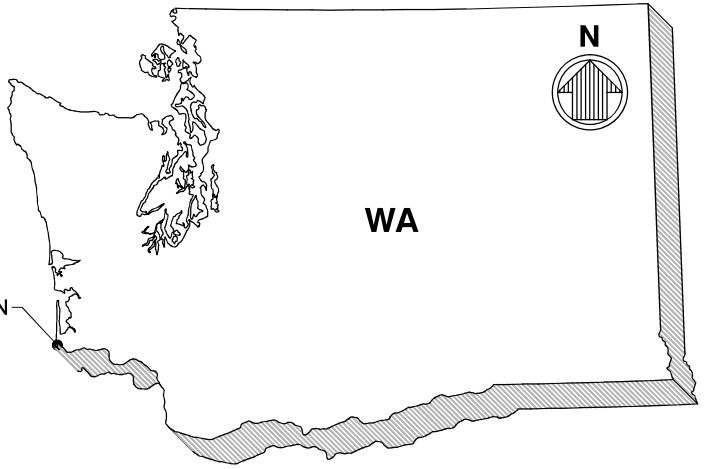


TIDAL DATUM:
 BASED ON NOAA TIDAL STATION NO.
 9440581, IN US FEET. HTL/OHW DELINEATED
 BY GEOENGINEERS DECEMBER, 2022.

LEVELS:
 MHHW: +8.07' MHW: +7.37'
 MLW: 1.35' MLLW: +0.00'
 OHW (DELINEATED): APPROX. +11.50'



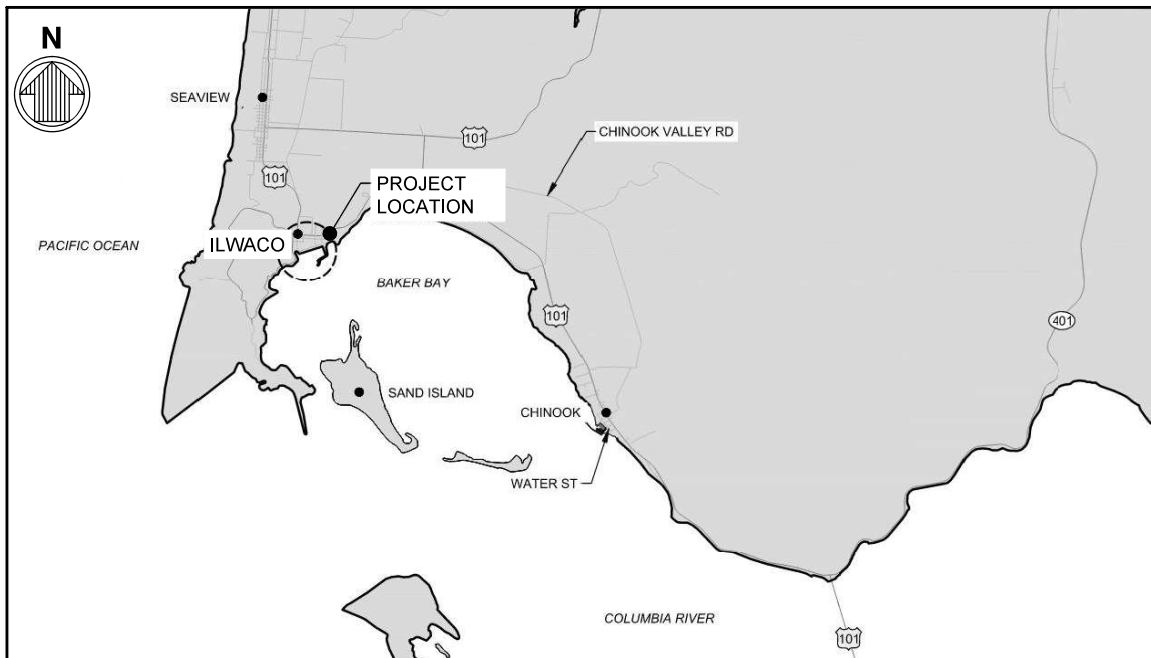
PROJECT LOCATION

DIRECTIONS TO SITE FROM SEATTLE:

- 1. I-5 S, US-101, WA-8 AND US-12 TO 98 MILES
 WA-107 S/S MAIN ST IN MONTESANO
- 2. TAKE US-101 TO ILWACO 72 MILES
- 3. ARRIVE AT PROJECT SITE

PROJECT ADDRESS:
 PORT OF ILWACO
 117 HOWERTON AVE SE
 ILWACO, WA 98624

VICINITY MAP
 SCALE: NTS



LOCATION MAP
 SCALE: NTS

APPLICANT:
 PORT OF ILWACO

ADJACENT PROPERTY OWNERS:
 1) PORT OF ILWACO

LOCATION: PORT OF ILWACO
 117 HOWERTON AVE SE
 ILWACO, WA 98624

LAT/LONG: 46.30442 N, -124.03852 W

DATUM: MLLW
SHEET: 1 OF 9 **DATE:** JUNE 2023

PROPOSED PROJECT: PORT OF ILWACO
 EAST BULKHEAD RESILIENCE PROJECT

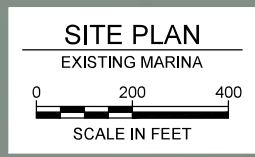
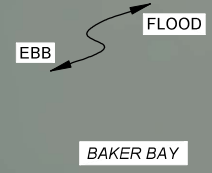
IN: BAKER BAY
NEAR/AT: ILWACO
COUNTY: PACIFIC **STATE:** WA
SEC: 33/34 **T:** 10 N **R:** 11 W

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S33 T10N R11W

LEGEND	
POI	PORT OF ILWACO OWNED PARCEL
---	TAX PARCEL
—OHWM—	ORDINARY HIGH WATER MARK



PURPOSE: PART OF ILWACO BULKHEAD REPLACEMENT AND SEA LEVEL RISE RESILIENCE.

DATUM: MLLW

ADJACENT PROPERTY OWNERS:
1. CITY OF ILWACO
2. STATE OF WASHINGTON
3. STARLIGHT ONE LLC.

Port of Ilwaco East Bulkhead Resilience Project

Parcel Map

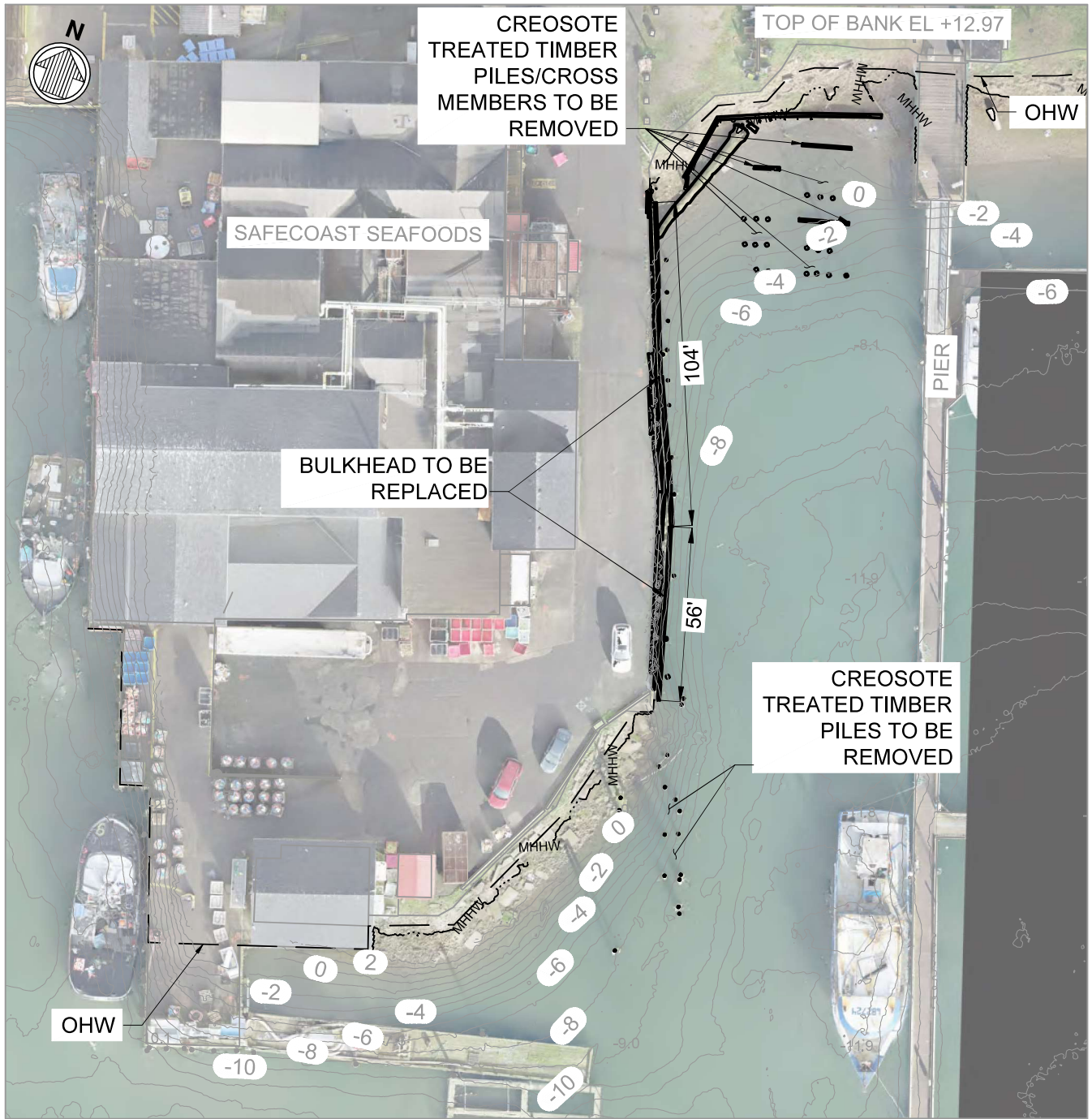
APPLICATION BY:
Port of Ilwaco

PROPOSED: DERELICT ILWACO E. BULKHEAD REPLACEMENT, DRIVEWAY REGRAVING/ REPAVING, & SHORE PROTECTION REPLACEMENT

IN: BAKER BAY
AT: ILWACO
COUNTY: PACIFIC

SHEET 2 OF 9

DATE: JUNE 2023

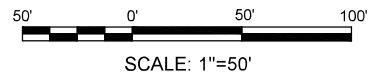


LEGEND

- PILES
- CREOSOTE-TREATED REVETMENT (TO BE REMOVED)
- CREOSOTE-TREATED LOG (TO BE REMOVED)
- BULKHEAD (TO BE REMOVED)

PLAN - EXISTING CONDITIONS
SCALE: 1" = 50'

LEVELS:
 MHHW: +8.07' MHW: +7.37'
 MLW: 1.35' MLLW: +0.00'
 OHW (DELINEATED): APPROX. +11.50'



APPLICANT:
PORT OF ILWACO

ADJACENT PROPERTY OWNERS:
1) PORT OF ILWACO

LOCATION: PORT OF ILWACO
117 HOWERTON AVE SE
ILWACO, WA 98624

LAT/LONG: 46.30442 N, -124.03852 W

DATUM: MLLW
SHEET: 3 OF 9 **DATE:** JUNE 2023

PROPOSED PROJECT: PORT OF ILWACO
EAST BULKHEAD RESILIENCE PROJECT

IN: BAKER BAY
NEAR/AT: ILWACO
COUNTY: PACIFIC **STATE:** WA
SEC: 33/34 **T:** 10 N **R:** 11 W

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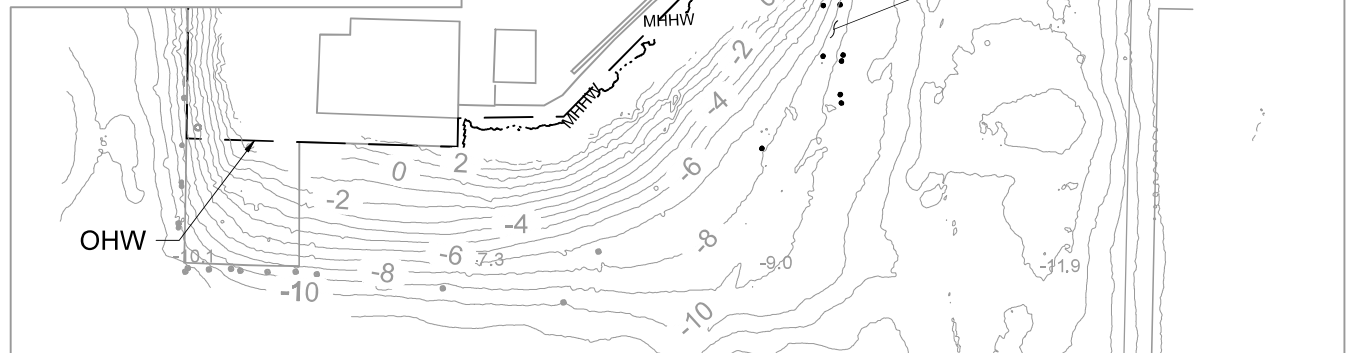


LEGEND

- DEMOLITION AREAS
- STEEL PILES

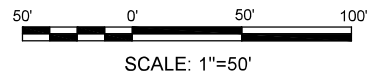
DEMOLITION KEY NOTES

- 1** REMOVE CREOSOTE-TREATED TIMBER REVETMENT AND LARGE LOG.
- 2** REMOVE TIMBER AND STEEL PILES ALONG TIMBER BULKHEAD
- 3** SELECTIVE DEMOLITION OF CREOSOTE-TREATED TIMBER BULKHEAD.
- 4** REMOVE PAVEMENT.
- 5** REMOVE CONCRETE CURB.
- 6** REMOVE FENCE.
- 7** SELECTIVE REMOVAL OF LARGE RUBBLE ON SHORELINE SLOPE TO ACCOMMODATE BULKHEAD INSTALLATION. SELECT RUBBLE MATERIAL WILL BE REPLACED WITH RIPRAP TO MAINTAIN SLOPE PROTECTION



A
3 **PLAN - DEMOLITION**
SCALE: 1" = 50'

LEVELS:	
MHHW: +8.07'	MHW: +7.37'
MLW: 1.35'	MLLW: +0.00'
OHW (DELINEATED):	APPROX. +11.50'



APPLICANT:
PORT OF ILWACO

ADJACENT PROPERTY OWNERS:
1) PORT OF ILWACO

LOCATION: PORT OF ILWACO
117 HOWERTON AVE SE
ILWACO, WA 98624

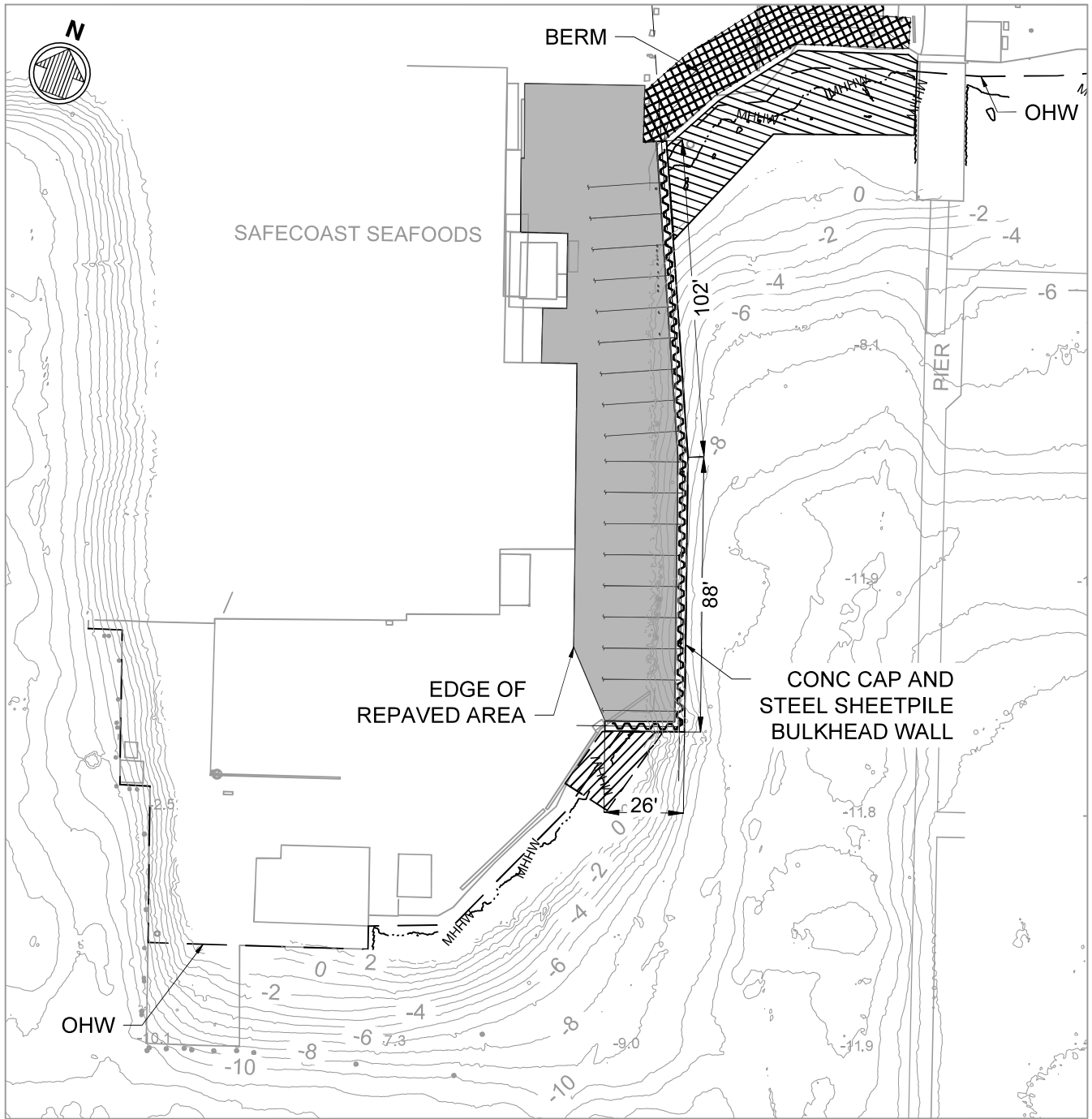
LAT/LONG: 46.30442 N, -124.03852 W

DATUM: MLLW
SHEET: 4 OF 9 **DATE:** JUNE 2023



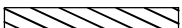
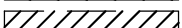
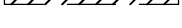


PROPOSED PROJECT: PORT OF ILWACO
EAST BULKHEAD RESILIENCE PROJECT

IN: BAKER BAY
NEAR/AT: ILWACO
COUNTY: PACIFIC **STATE:** WA
SEC: 33/34 **T:** 10 N **R:** 11 W

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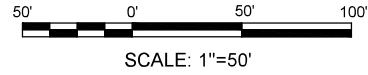


LEGEND

-  PAVING AREA LIMITS
-  BERM CONSTRUCTION
-  SLOPE PROTECTION
-  APPROXIMATE AREA OF SLOPE PROTECTION REPLACEMENT
-  TIEBACKS
-  PROPOSED BULKHEAD
-  PILES

PLAN - PROPOSED
SCALE: 1" = 50'

LEVELS:	
MHHW: +8.07'	MHW: +7.37'
MLW: 1.35'	MLLW: +0.00'
OHW (DELINEATED):	APPROX. +11.50'



APPLICANT:
PORT OF ILWACO

ADJACENT PROPERTY OWNERS:
1) PORT OF ILWACO

LOCATION: PORT OF ILWACO
117 HOWERTON AVE SE
ILWACO, WA 98624

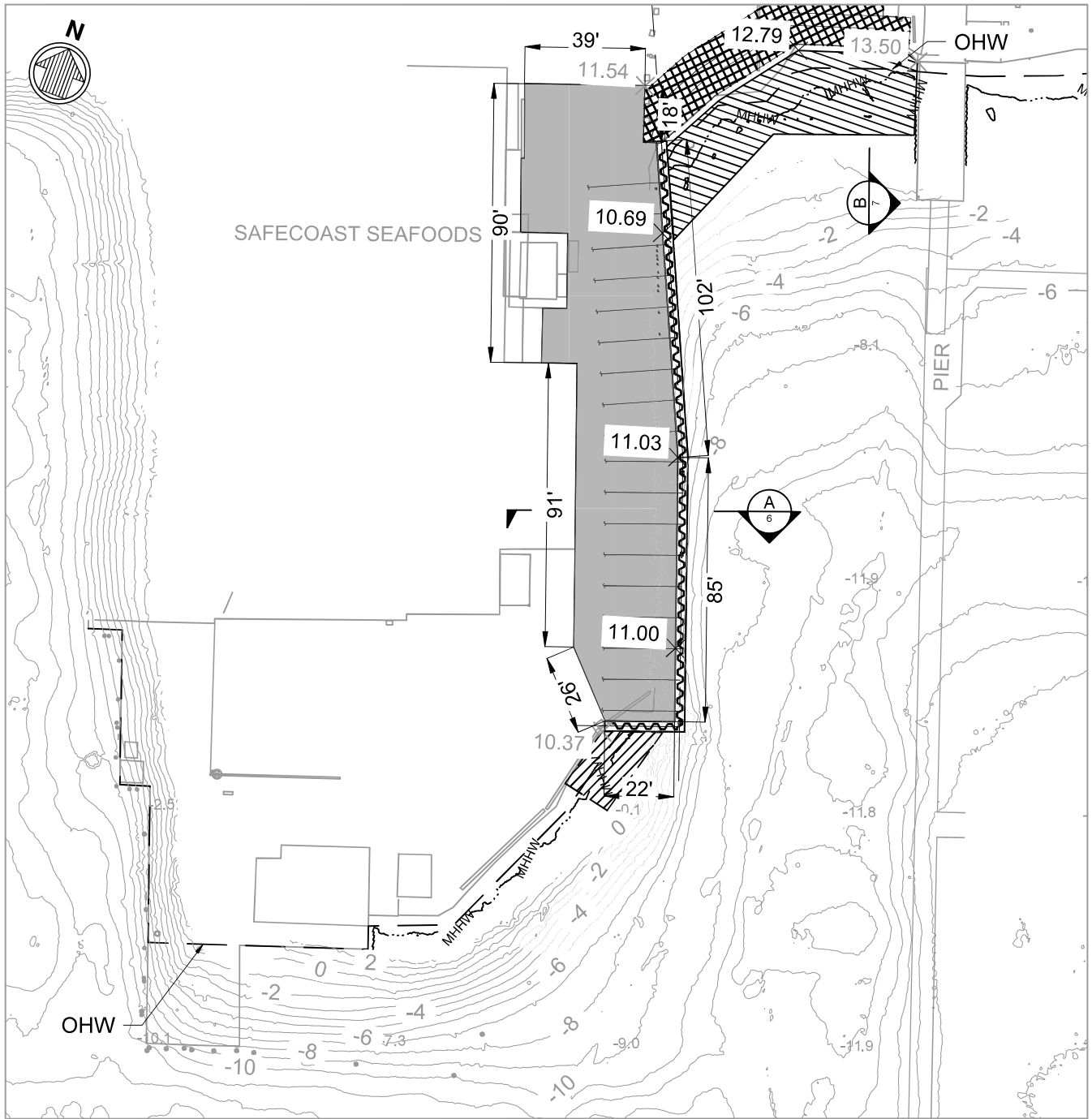
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DATUM: MLLW
SHEET: 5 OF 9 **DATE:** JUNE 2023

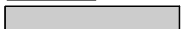


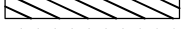




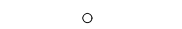
PROPOSED PROJECT: PORT OF ILWACO
EAST BULKHEAD RESILIENCE PROJECT

IN: BAKER BAY
NEAR/AT: ILWACO
COUNTY: PACIFIC **STATE:** WA
SEC: 33/34 **T:** 10 N **R:** 11 W

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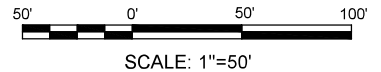


LEGEND

-  PAVING AREA LIMITS
-  BERM CONSTRUCTION
-  SLOPE PROTECTION
-  APPROXIMATE AREA OF SLOPE PROTECTION REPLACEMENT
-  TIEBACKS
-  PROPOSED BULKHEAD
-  STEEL PILES
-  EXISTING ELEVATION
-  PROPOSED ELEVATION

PLAN - GRADING
SCALE: 1" = 50'

LEVELS:	
MHHW: +8.07'	MHW: +7.37'
MLW: 1.35'	MLLW: +0.00'
OHW (DELINEATED):	APPROX. +11.50'



APPLICANT:
PORT OF ILWACO

ADJACENT PROPERTY OWNERS:
1) PORT OF ILWACO

LOCATION: PORT OF ILWACO
117 HOWERTON AVE SE
ILWACO, WA 98624

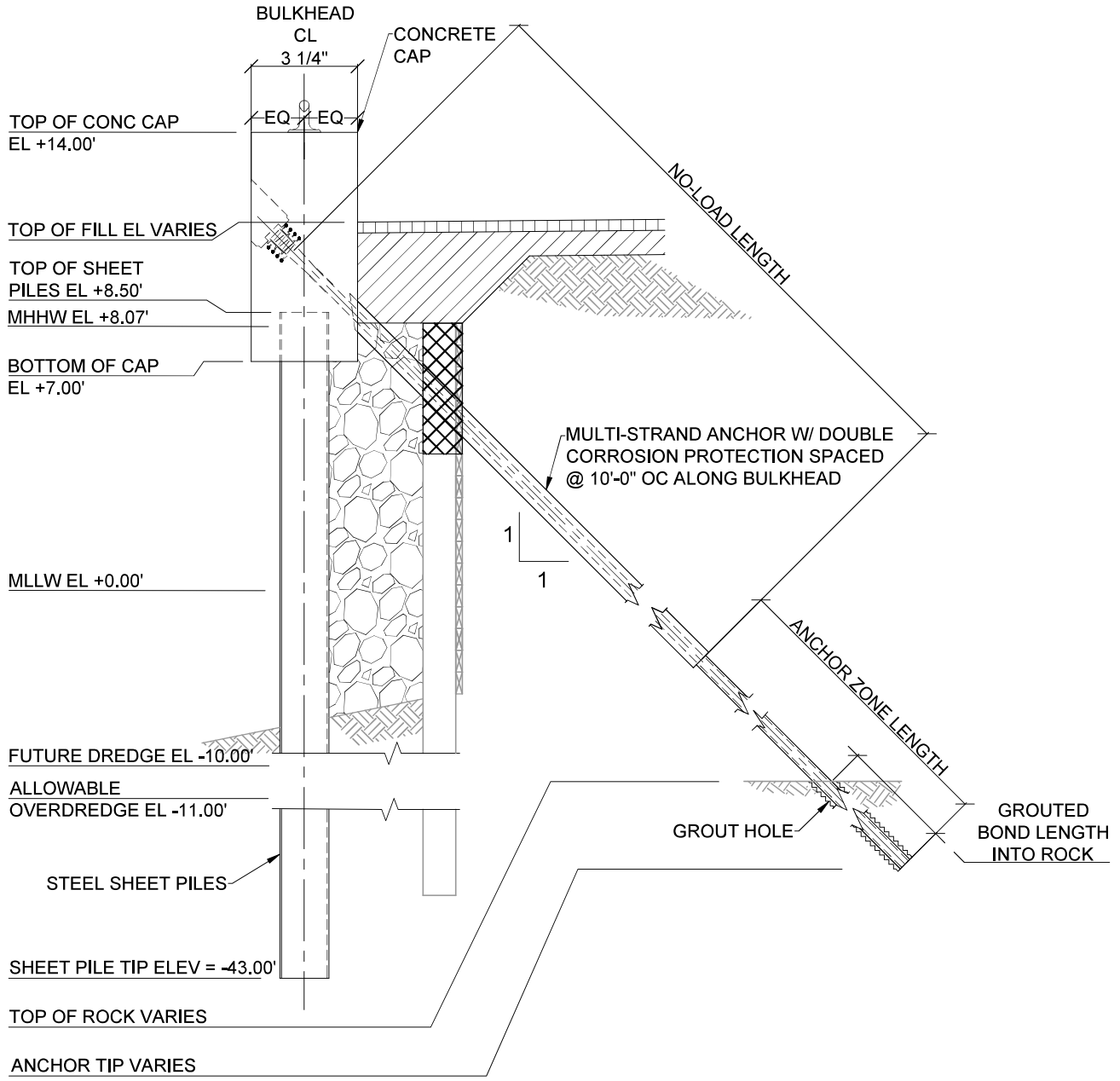
LAT/LONG: 46.30442 N, -124.03852 W

DATUM: MLLW
SHEET: 6 OF 9 **DATE:** JUNE 2023







PROPOSED PROJECT: PORT OF ILWACO
EAST BULKHEAD RESILIENCE PROJECT

IN: BAKER BAY
NEAR/AT: ILWACO
COUNTY: PACIFIC **STATE:** WA
SEC: 33/34 **T:** 10 N **R:** 11 W

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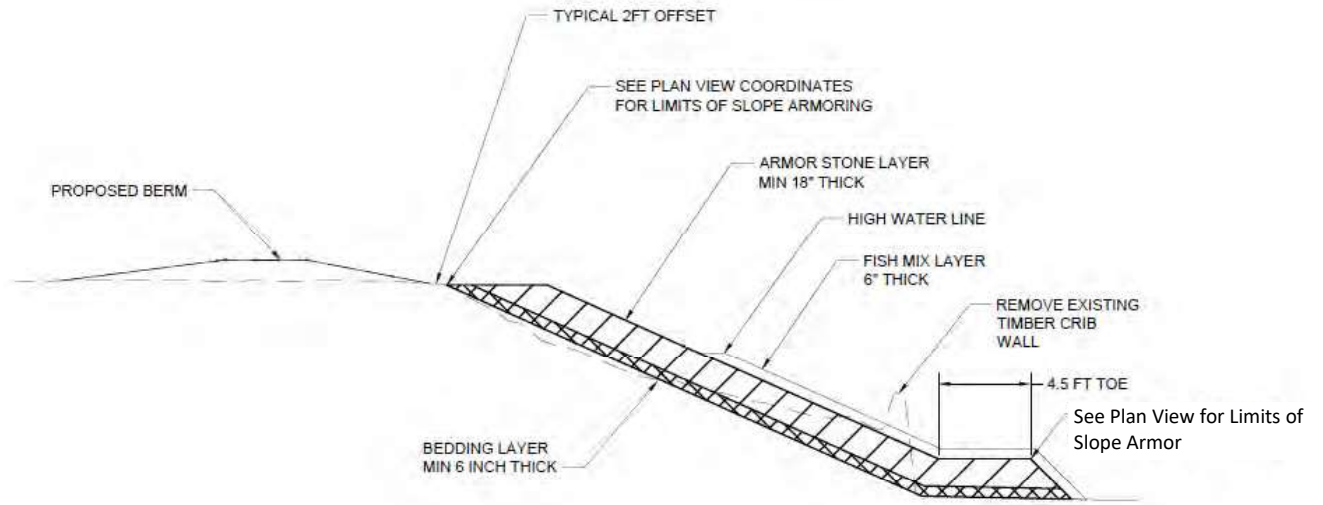
LEGEND

-  CLEAT
-  EXISTING CREOSOTE-TREATED TIMBER BULKHEAD, LAGGING TO REMAIN
-  DRAIN ROCK BACKFILL
-  ASPHALT PAVING
-  STRUCTURAL FILL
-  LOCAL DEMOLITION/REMOVAL OF CREOSOTE-TREATED TIMBER BULKHEAD FOR INSTALLATION OF GROUND ANCHORS

A SECTION - TYP BULKHEAD
SCALE: NTS

APPLICANT: PORT OF ILWACO	LOCATION: PORT OF ILWACO 117 HOWERTON AVE SE ILWACO, WA 98624	PROPOSED PROJECT: PORT OF ILWACO EAST BULKHEAD RESILIENCE PROJECT
ADJACENT PROPERTY OWNERS: 1) PORT OF ILWACO	LAT/LONG: 46.30442 N, -124.03852 W	IN: BAKER BAY NEAR/AT: ILWACO COUNTY: PACIFIC SEC: 33/34
	DATUM: MLLW SHEET: 7 OF 9 DATE: JUNE 2023	STATE: WA T: 10 N R: 11 W

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C1 SLOPE ARMOR SECTION 2
 C-110 SCALE:

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<p>APPLICANT: PORT OF ILWACO</p> <p>ADJACENT PROPERTY OWNERS: 1) PORT OF ILWACO</p>	<p>LOCATION: PORT OF ILWACO 117 HOWERTON AVE SE ILWACO, WA 98624</p> <p>LAT/LONG: 46.30442 N, -124.03852 W</p> <p>DATUM: MLLW</p> <p>SHEET: 8 OF 9 DATE: JUNE 2023</p>	<p>PROPOSED PROJECT: PORT OF ILWACO EAST BULKHEAD RESILIENCE PROJECT</p> <p>IN: BAKER BAY NEAR/AT: ILWACO COUNTY: PACIFIC STATE: WA SEC: 33/34 T: 10 N R: 11 W</p>
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Port of Ilwaco Marina

Bulkhead

Additional Mitigation

Legend

 **Additional Mitigation**



0 300 600
 Feet

Scale: 1" = 395'

APPLICANT: PORT OF ILWACO

ADJACNET PROPERTY OWNERS:
 1) PORT OF ILWACO

LOCATION: PORT OF ILWACO
 117 HOWERTON AVE SE
 ILWACO, WA, 98624

LAT/LONG: 46.20442 N, -124.03852 W

DATUM: MLLW
SHEET: 9 OF 9 **DATE:** JUNE, 2023

PROPOSED: PORT OF ILWACO EAST BULKHEAD
 RESILIENCE PROJECT

IN: BAKER BAY
NEAR/AT: PORT OF ILWACO
COUNTY: PACIFIC
SEC: 33/34 **T:** 10 N **STATE:** WA
R: 11 W

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