













<div><p>US WIND, INC. 401 EAST PRATT STREET, SUITE 1810 BALTIMORE, MD 21202</p></div> <div></div>	<b>Revisions</b>	<b>WORCESTER COUNTY</b>		
	Revision 1: Update to Pier Length and Associated Impacts (3/2024) Revision 2: Updated Wharf dimensions and impacts (4/30/2024) Revision 3: Revised Existing Conditions - Bulkhead (6/03/2024)	<b>OPERATIONS AND MAINTENANCE FACILITY PIER INSTALLATION</b>		
		<b>LOCATION MAP</b>		
		SCALE: 1" = 2,500'	DATE: JUNE 2024	PLATE 01 of 06

## LEGEND

	Mean High Water Elevation (0.84' NAVD88 per Spencer Rowe Inc Report, August 2022)
	Mean Low Water Elevation (-1.58' NAVD88 per Spencer Rowe Inc Report, August 2022)
	Approximate Mean High Water Elevation (Northern Boundary)
	Approximate Mean Low Water Elevation (Northern Boundary)
	18 inch Bulkhead Repair
	New Timber Fender System
	New Cleat
	Estuarine Subtidal Unconsolidated Bottom (E1UBL) - Permanent Impact
	Limit of Federal Channel
	Property Line

## Operations & Maintenance Facility

Plate Number	Name	Permanent Impact (SF)		
		Bulkhead	Pier	TOTAL
04	Estuarine Subtidal Unconsolidated Bottom (E1UBL), Section B-B	306	3,811	4,117
	Estuarine Subtidal Unconsolidated Bottom (E1UBL), Section A-A	268.5	4,951.5	5,220
<b>Totals</b>		<b>574.5</b>	<b>8,762.5</b>	<b>9,337</b>

## NOTES

- No dredging is proposed for construction or operation of the pier as shown herein.
- Existing concrete wharf (B-B) is approximately 21 ft wide by 180 ft long (approximately 3,780 SF).
- Bulkhead repairs will be performed by placing sheet piling a maximum of 18 inches beyond the existing face and filling the void between the two before being capped.
- New straight and uniform steel sheet pile bulkhead will be placed 18 inches beyond current deteriorating and multi-material bulkhead under the concrete wharf in Section B-B. New fixed concrete wharf will replace existing fixed concrete wharf in Section B-B.
- The MHW and the MLW on the northern boundary of the channel is approximate based upon aerial imagery.
- Spot elevations in the channel shown on Plate 03 with an 'x' are based on bathymetric survey (May 2023).
- Tiebacks, if necessary, will be installed utilizing standard installation procedures and best management practices.
- Notional Crew Transfer Vessels (CTVs) shown on Plate 4 are approximately 100' x 33' x 5'.
- Support Steel Piles: Approximately 185, spacing of 10', diameter 12-18"
- Timber Fender Piles: Approximately 72, spacing of 5', diameter 12-18"
- Sheet Pile: 383 linear feet

23-WL-0813 & 24-WQC-0004

202361274

179399

6/2024

RMS



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401 EAST PRATT  
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BALTIMORE, MD  
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## Revisions

Revision 1: 3/24  
Revision 2: 4/30/24  
Revision 3: 6/03/24

## WORCESTER COUNTY

## OPERATIONS AND MAINTENANCE FACILITY PIER INSTALLATION

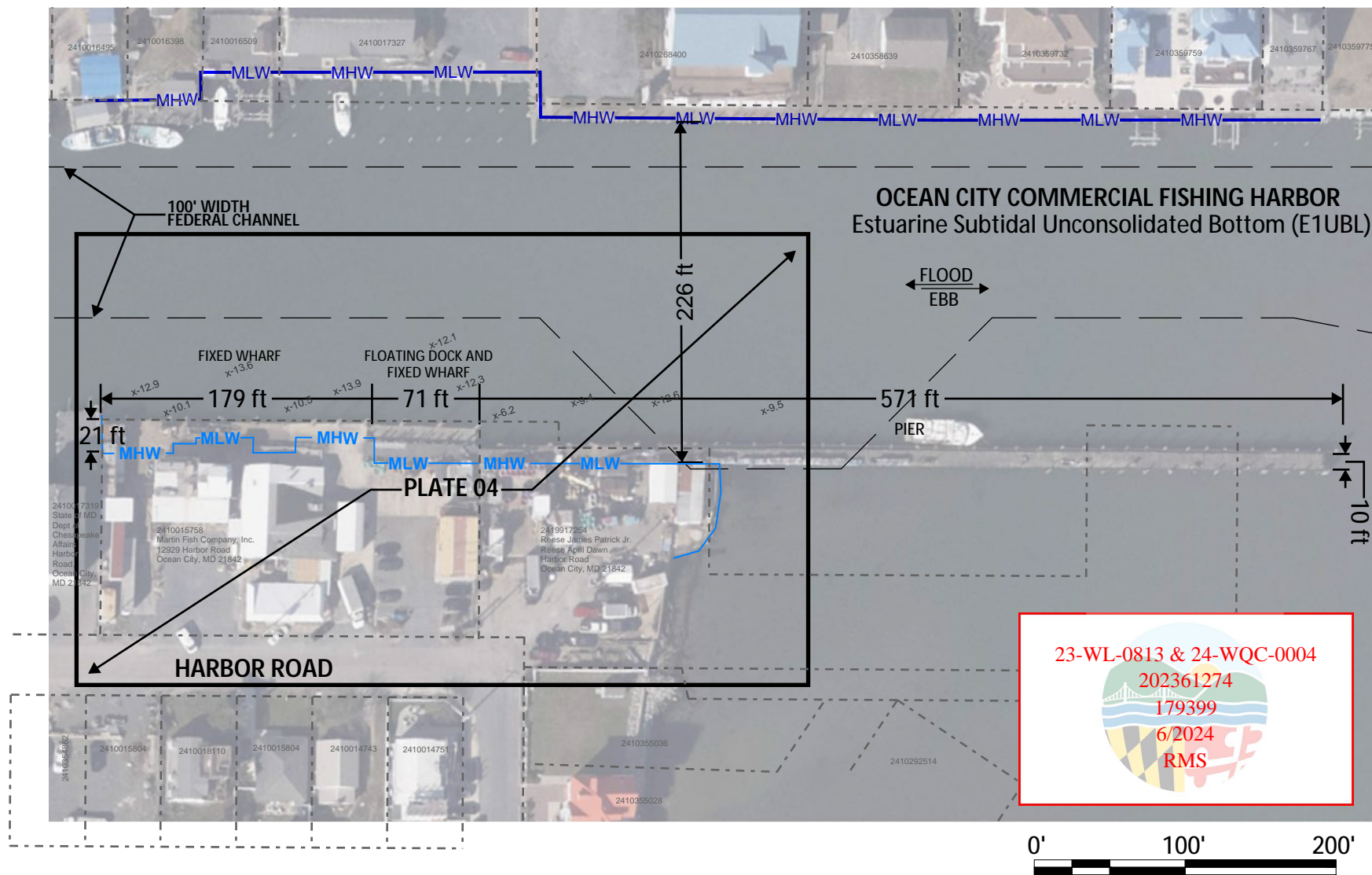
## LEGEND AND NOTES

NOT TO SCALE

DATE: JUNE 2024

PLATE 02 of 06





US WIND, INC.  
401 EAST PRATT  
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### Revisions

Revision 1: Update to Pier Length and Associated Impacts (3/2024)  
Revision 2: Updated Wharf dimensions and impacts (4/30/2024)  
Revision 3: Revised Existing Conditions - Bulkhead (6/03/2024)

### WORCESTER COUNTY

### OPERATIONS AND MAINTENANCE FACILITY PIER INSTALLATION



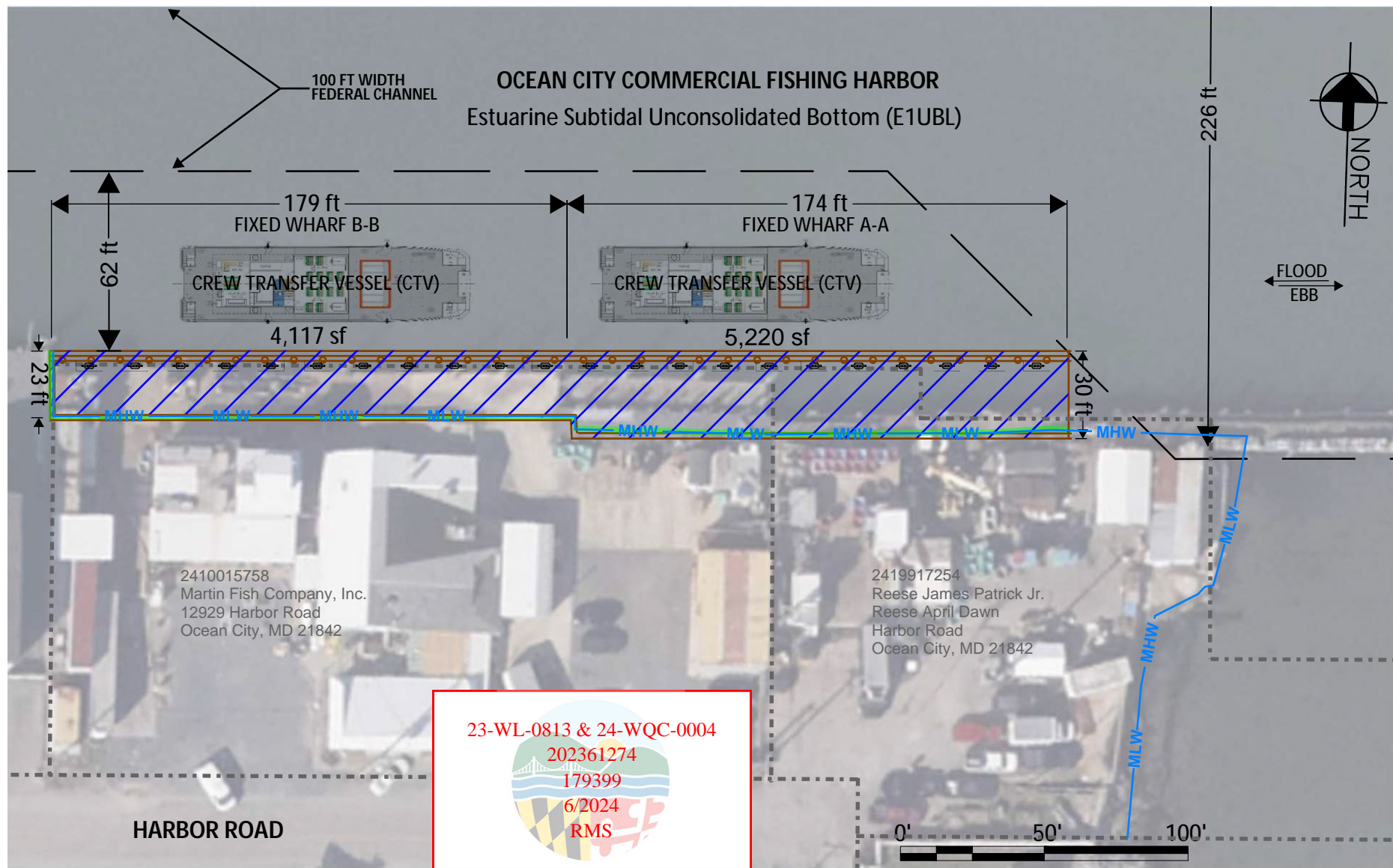
### EXISTING CONDITIONS

SCALE: 1" = 100'

DATE: JUNE 2024

PLATE 03 of 06





US WIND, INC.  
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### WORCESTER COUNTY

### OPERATIONS AND MAINTENANCE FACILITY PIER INSTALLATION



### WETLAND IMPACTS

SCALE: 1" = 50'

DATE: JUNE 2024

PLATE 04 of 06

23-WL-0813 & 24-WQC-0004

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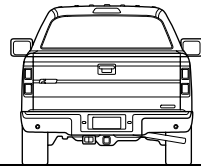
MAXIMUM OF 1'-6"  
OUTBOARD OF  
EXISTING BULKHEAD

30'-0"

25'-0"±

2'-0"±

CONCRETE  
BULKHEAD CAP



CONCRETE DECK

CONCRETE PILE CAP

CLEAT

TIMBER  
FENDER SYSTEM

TOP OF DECK  
EL +5.85 FT (NAVD88)

▽ MHW EL +0.84 FT

▽ MLW EL -1.58 FT (NAVD88)

APPROX MUDLINE  
EL. -6.27 FT  
(NAVD88)

10' MINIMUM  
EMBEDMENT

TIP EL. -100'±

EXISTING BULKHEAD  
(TYPE AND EXTENT VARIES,  
SEE SITE PHOTOS)

STEEL SHEET  
PILE AND  
CONCRETE FILL

STEEL PIPE  
PILE (TYP)

NOTE: MHW LINE BASED ON  
STUDY PERFORMED BY  
SPENCER ROWE, INC., IN A  
REPORT DATED AUGUST 2022.

### CONCEPTUAL FIXED WHARF SECTION A-A



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### OPERATIONS AND MAINTENANCE FACILITY PIER INSTALLATION



NOT TO SCALE

DATE: JUNE 2024

PLATE 05 of 06

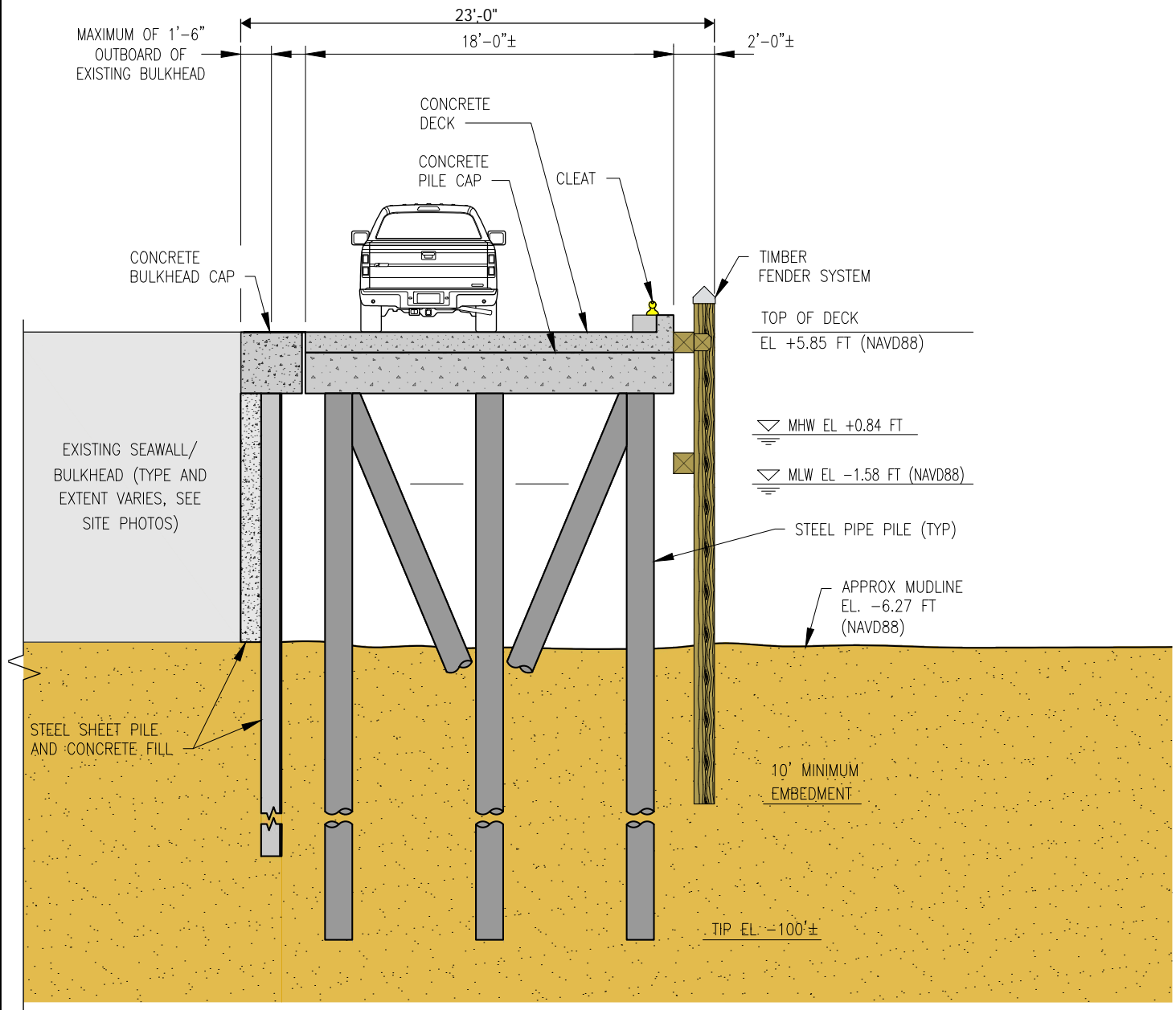
23-WL-0813 & 24-WQC-0004

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6/2024

RMS



NOTE: MHW LINE BASED ON  
STUDY PERFORMED BY  
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### CONCEPTUAL FIXED WHARF SECTION B-B



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**WORCESTER COUNTY**

**OPERATIONS AND MAINTENANCE FACILITY  
PIER INSTALLATION**

NOT TO SCALE

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PLATE 06 of 06