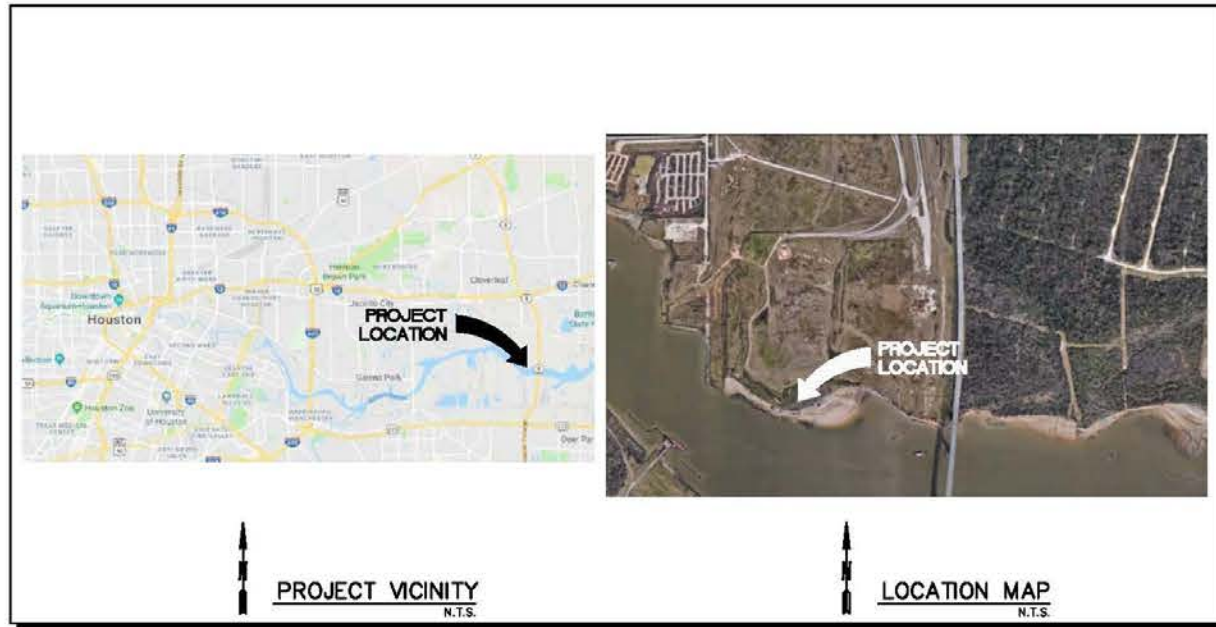


Exhibit D

Design Drawings for Modification to USACE Permit No. SWG-2007-01694



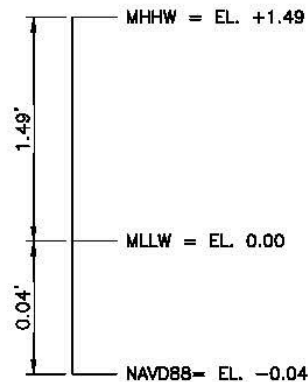
INDEX OF DRAWINGS

- D-1 General Notes
- D-2 Previously Authorized Activities
- D-3 Overall Site Plan
- D-4 Dredge Site Plan
- D-5 Dredging Cross Sections
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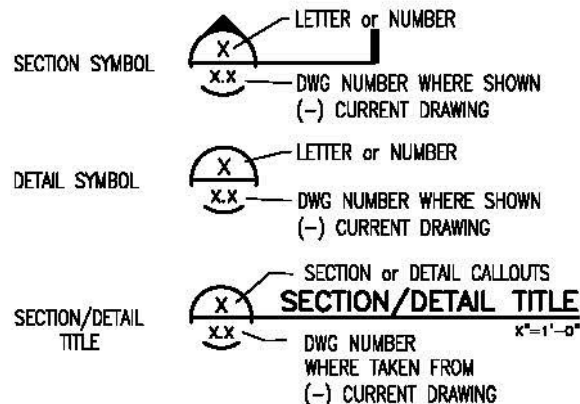
TDWP Terminals I, LLC**Modification to USACE Permit No. SWG-2007-01694****Harris County, Texas****Exhibit D****ELEVATION DATUM:**

PUBLISHED ASTRONOMICAL TIDE LEVELS AND DATUMS FOR NATIONAL OCEAN SERVICE STATION
8770733 LYNCHBURG LANDING (DOWNSTREAM OF PROJECT SITE)

STRUCTURES: BASED ON MLLW = EL. 0.00
DREDGING: BASED ON MLLW = EL. 0.00



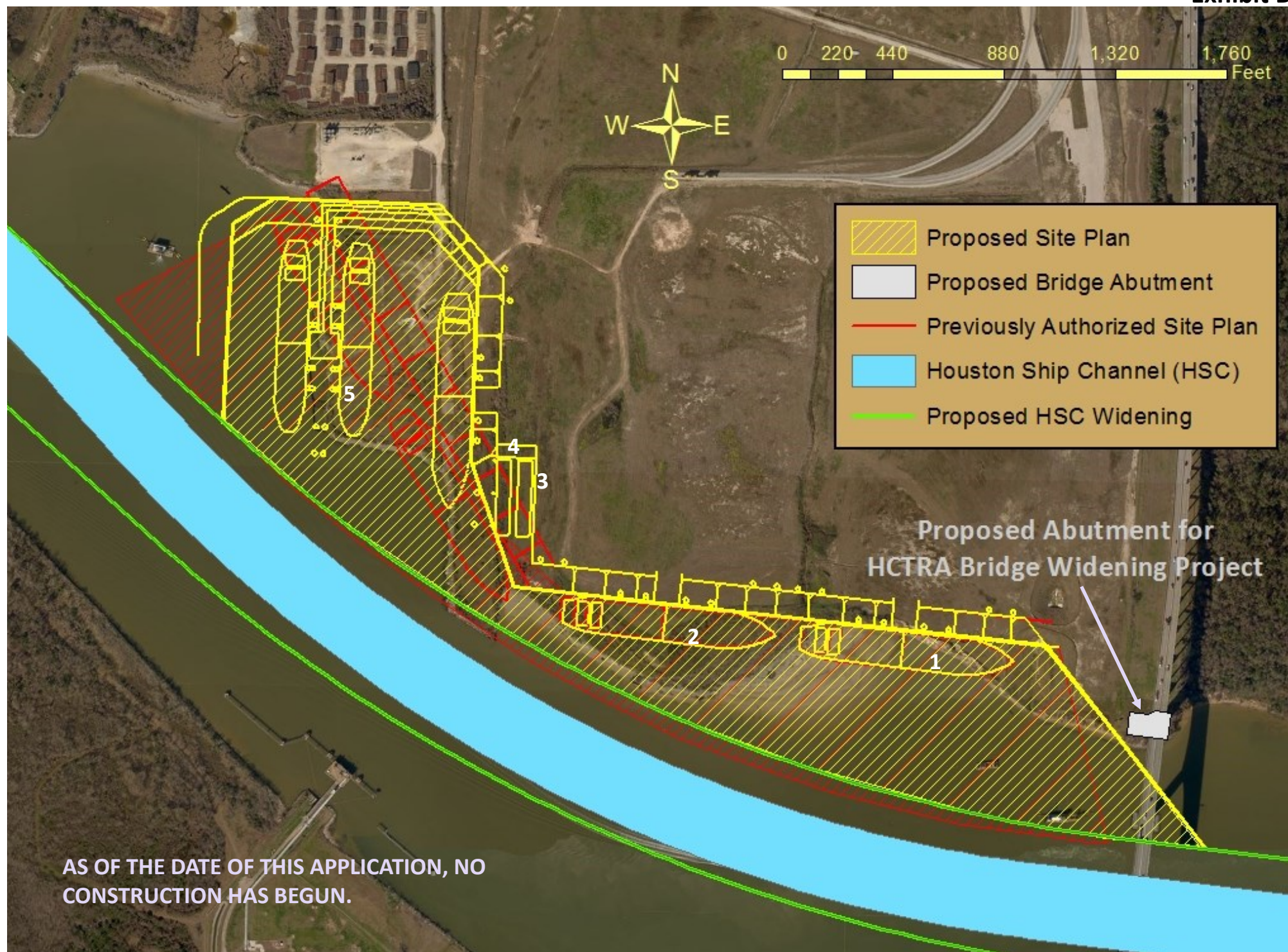
NOTE: DATA LISTED IS BASED UPON ASTRONOMICAL TIDES AT THE STATION. ACTUAL WATER LEVELS MAY VARY DUE TO METEOROLOGICAL EFFECTS AND SEASONAL VARIATIONS. ADDITIONAL VARIATIONS BETWEEN THE STATION AND PROJECT SITE MAY BE CAUSED BY TOPOGRAPHIC AND HYDROGRAPHIC EFFECTS BETWEEN THE LOCATIONS. DURING SCHEDULING OF CONSTRUCTION WORKS, ATTENTION SHALL BE PAID TO KNOWN SEASONAL VARIATIONS AND METEOROLOGICAL EFFECTS.

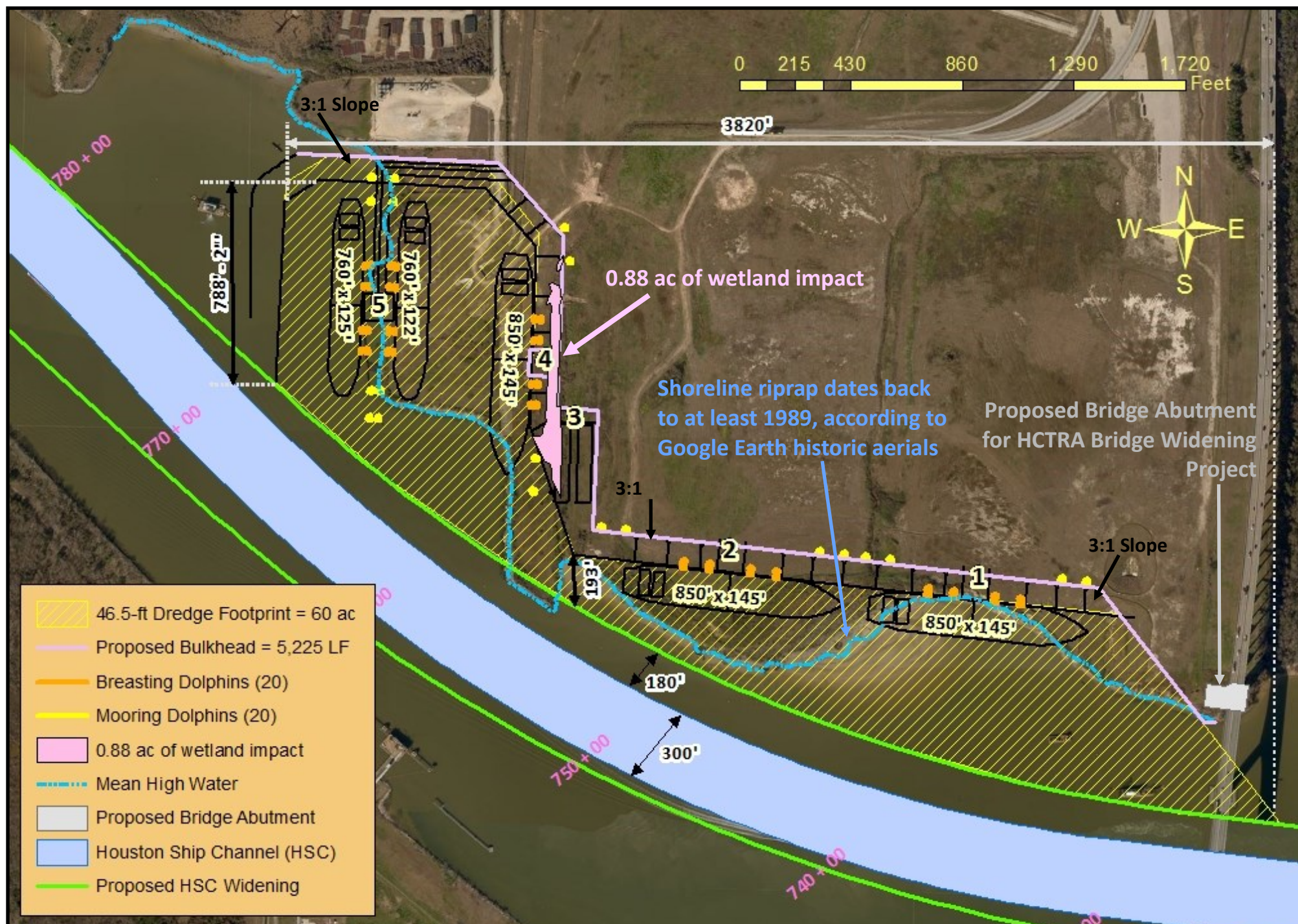
SECTION/DETAIL KEY:**General Notes****GENERAL REQUIREMENTS**

1. THE CONTRACTOR STAGING AREA SHALL BE LOCATED IN AN AREA DESIGNATED BY TEXASDEEPWATER PARTNERS, LLC (TDWP).
2. DURING CONSTRUCTION TAKE EXTREME CAUTION AND CARE FROM ANY POSSIBLE FALLING DEBRIS. THE CONTRACTOR SHALL SUBMIT TO "TDWP" AND THE ENGINEER THE PROPOSED CONSTRUCTION INSTALLATION PROCEDURES, CONSTRUCTION MONITORING PLAN, AND EMERGENCY RESPONSE PLAN IN THE EVENT OF AN ACCIDENT PRIOR TO COMMENCEMENT OF WORK.
3. CONTRACTOR SHALL NOT BLOCK ACCESS ALONG THE HOUSTON SHIP CHANNEL.
4. ALL BARGES AND FLOATING EQUIPMENT SHALL HAVE NAVIGATIONAL LIGHTS IN ACCORDANCE WITH US COAST GUARD (USCG) REQUIREMENTS.
5. ALL CONSTRUCTION ACTIVITIES SHALL BE IN CONFORMANCE TO ALL PROJECT PERMIT CONDITIONS.
6. DO NOT ALLOW DEMOLITION DEBRIS TO FALL INTO THE WATER. ALL DEBRIS SHALL BE DISPOSED OFF SITE. CONTRACTOR SHALL USE CERTIFIED COMMERCIAL DIVERS TO INSPECT THE BOTTOM AND REMOVE ALL DEBRIS AND OTHER CONSTRUCTION MATERIAL.

PROJECT INFORMATION

1. THE SCOPE OF WORK CONSISTS OF THE CONSTRUCTION OF A NEW MARINE TERMINAL IN HOUSTON, TX. TO FACILITATE THIS MARINE TERMINAL, THE CONTRACTOR SHALL DREDGE TO AN ELEVATION OF -46.5' MEAN LOWER LOW WATER (MLLW) WITH 2' ALLOWABLE FOR OVER DREDGE TO THE EXTENTS SHOWN ON THESE DRAWINGS.
2. THREE (3) SHIP DOCKS, ONE (1) BARGE DOCK, AND ONE (1) FINGER PIER ACCOMMODATING TWO (2) SHIPS WILL BE CONSTRUCTED WITHIN THE LIMITS SHOWN IN THESE DRAWINGS. THE NEW CONSTRUCTION, FOR ALL STRUCTURES LISTED, INCLUDES PILE SUPPORTED DOCKS EQUIPPED WITH MARINE LOADING ARMS FOR THE UNLOADING AND LOADING OF BOTH TANKERS AND BARGES.
3. CONSTRUCTION OF THE NEW DOCKS WILL USE PRE-STRESSED CONCRETE PILES WITH REINFORCED CONCRETE CAPS TOPPED WITH PRE-STRESSED CONCRETE BOX BEAMS AND CONCRETE TOPPING. A CONCRETE CURB WILL BE TO THE LIMITS SHOWN ON THE PLATFORM.
4. FOR SHIP BERTHING AT EACH DOCK AND FINGER PIER, FOUR (4) NEW MONO-PILE BREASTING DOLPHINS ALONG WITH FOUR (4) NEW MONO-PILE MOORING DOLPHINS WILL BE CONSTRUCTED. ALSO, ALONG THE LEADING EDGE OF THE NEW DOCKS AND FINGER PIER SHALL BE NEW MONO-PILE DOCK PROTECTION PILES TO SAFEGUARD THE PRE-CAST PRE-STRESSED PILES FROM ERRANT BARGES. THESE PROTECTION PILES ARE NOT INTENDED OR DESIGNED FOR SHIP BERTHING.
5. THE DESIGN DREDGE DEPTH AT THE FENDERLINE, AND TO THE EXTENTS SHOWN, IS -46.5 FEET USING THE MEAN LOWER LOW WATER (MLLW) TIDE DATUM. A GRADED SLOPE OF 3H:1V SHALL BE TO THE LIMITS SHOWN.
6. THE NEW CONSTRUCTION OF AN ANCHORED PIPE-Z COMBINATION RETAINING WALL SHALL BE INSTALLED TO THE LIMITS SHOWN ON THESE DRAWINGS.
7. PIPING AND UTILITIES TO THE DOCK WILL BE DESIGNED BY OTHERS.
8. THE NEW CONSTRUCTION OF AN APPROACH TRESTLE SHALL BE USED TO PROVIDE ACCESS TO THE NEW FINGER PIER.
9. LOCATED TO THE WEST OF THE TRESTLE, AND ALONG ITS LENGTH, SHALL BE A PIPE RACK THAT SUPPORTS THE PIPING OF THE FACILITY FROM THE UPLAND AREA TO THE FINGER PIER. PIPE RACK SHALL BE SUPPORTED ON THE SAME FOUNDATION CAPS AS THE TRESTLE.





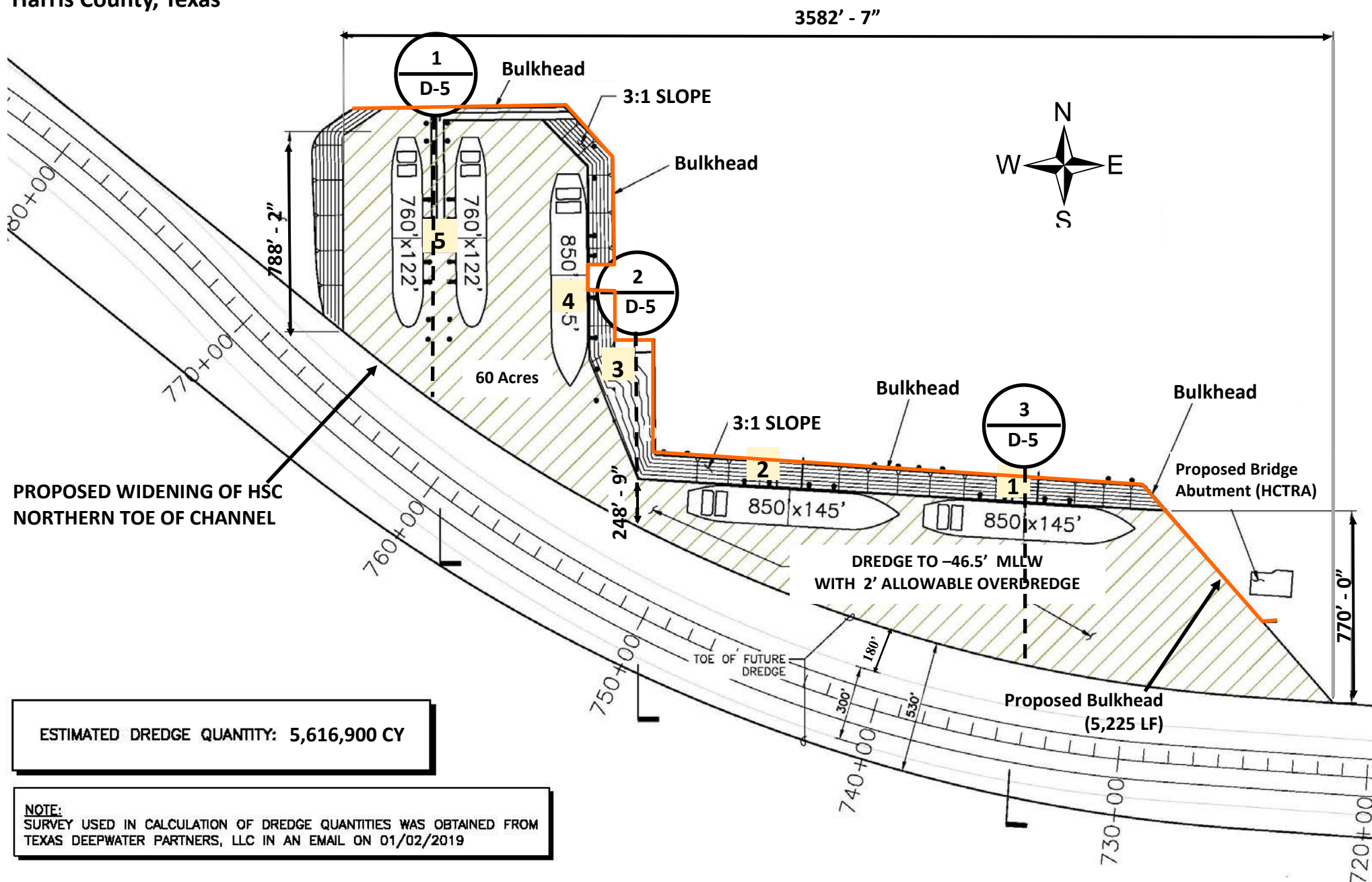
Overall Site Plan

TDWP Terminals I, LLC

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Harris County, Texas

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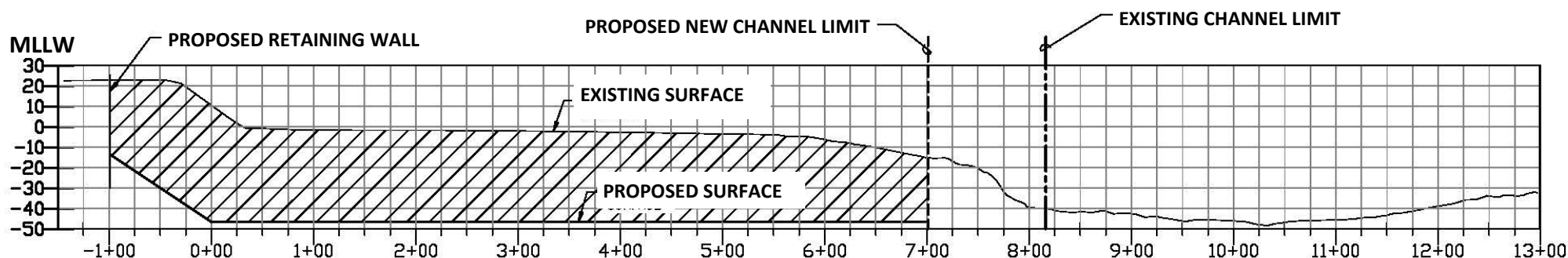
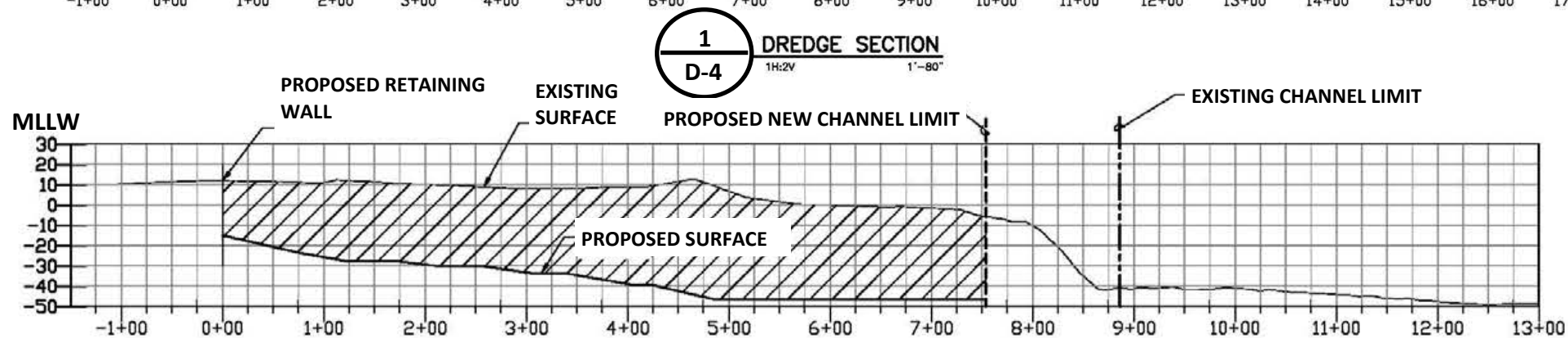
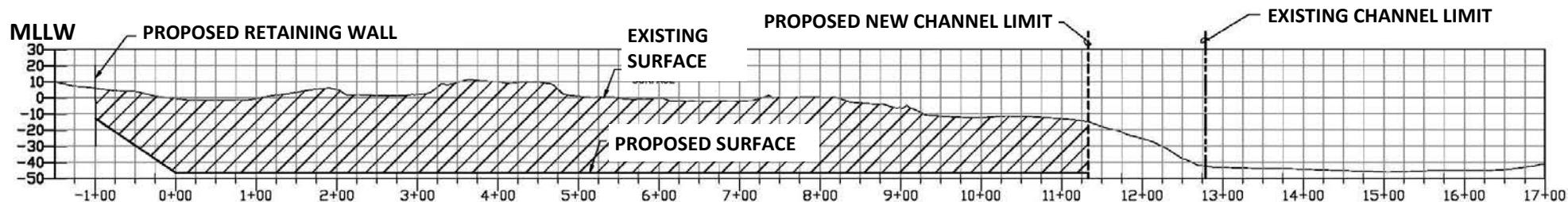
Dredge Site Plan

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Harris County, Texas

Exhibit D



Dredging Cross Sections

TDWP Terminals I, LLC

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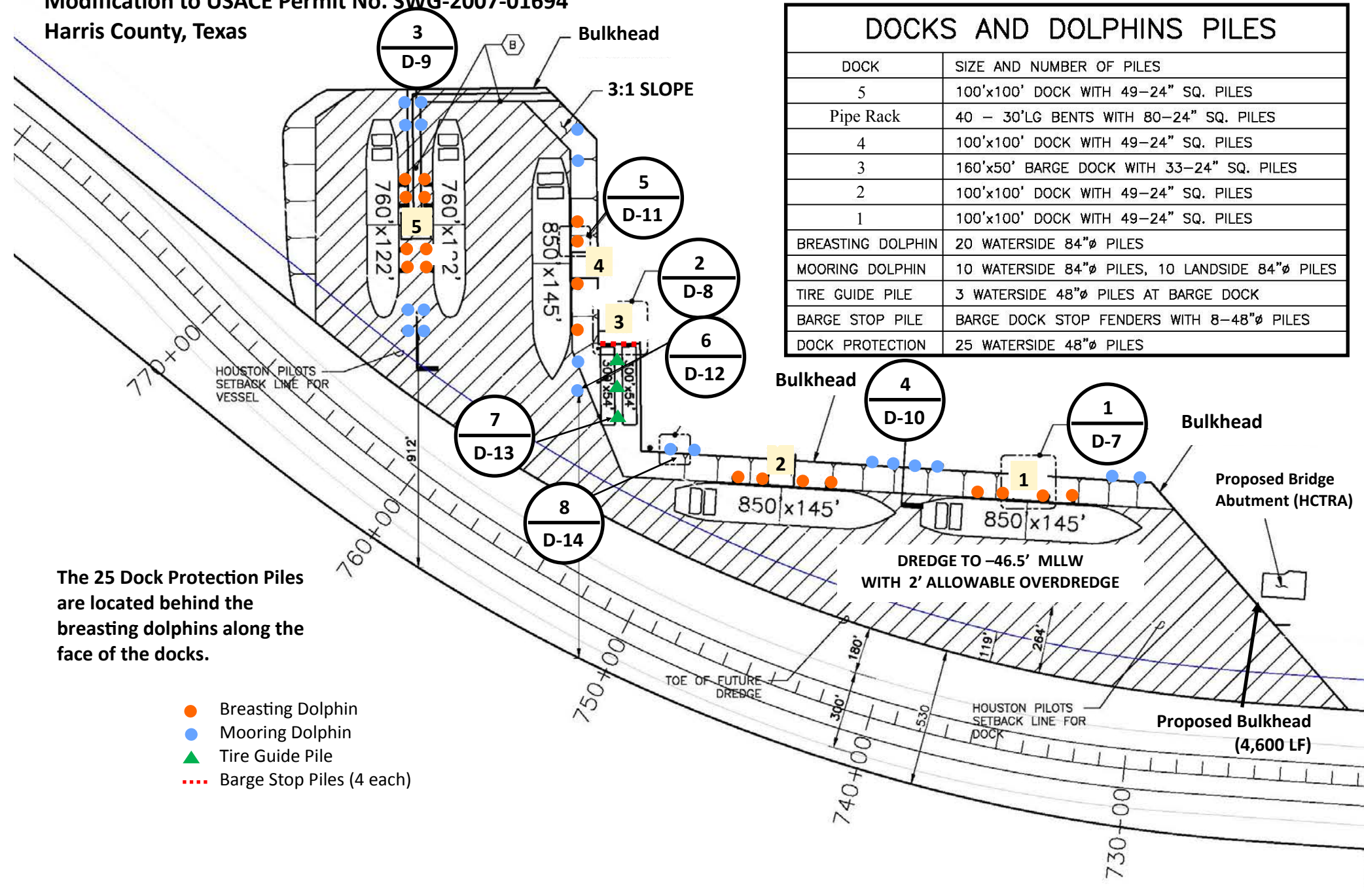
Harris County, Texas

Exhibit D

DOCKS AND DOLPHINS PILES	
DOCK	SIZE AND NUMBER OF PILES
5	100'x100' DOCK WITH 49-24" SQ. PILES
Pipe Rack	40 - 30'LG BENTS WITH 80-24" SQ. PILES
4	100'x100' DOCK WITH 49-24" SQ. PILES
3	160'x50' BARGE DOCK WITH 33-24" SQ. PILES
2	100'x100' DOCK WITH 49-24" SQ. PILES
1	100'x100' DOCK WITH 49-24" SQ. PILES
BREASTING DOLPHIN	20 WATERSIDE 84"Ø PILES
MOORING DOLPHIN	10 WATERSIDE 84"Ø PILES, 10 LANDSIDE 84"Ø PILES
TIRE GUIDE PILE	3 WATERSIDE 48"Ø PILES AT BARGE DOCK
BARGE STOP PILE	BARGE DOCK STOP FENDERS WITH 8-48"Ø PILES
DOCK PROTECTION	25 WATERSIDE 48"Ø PILES

The 25 Dock Protection Piles are located behind the breasting dolphins along the face of the docks.

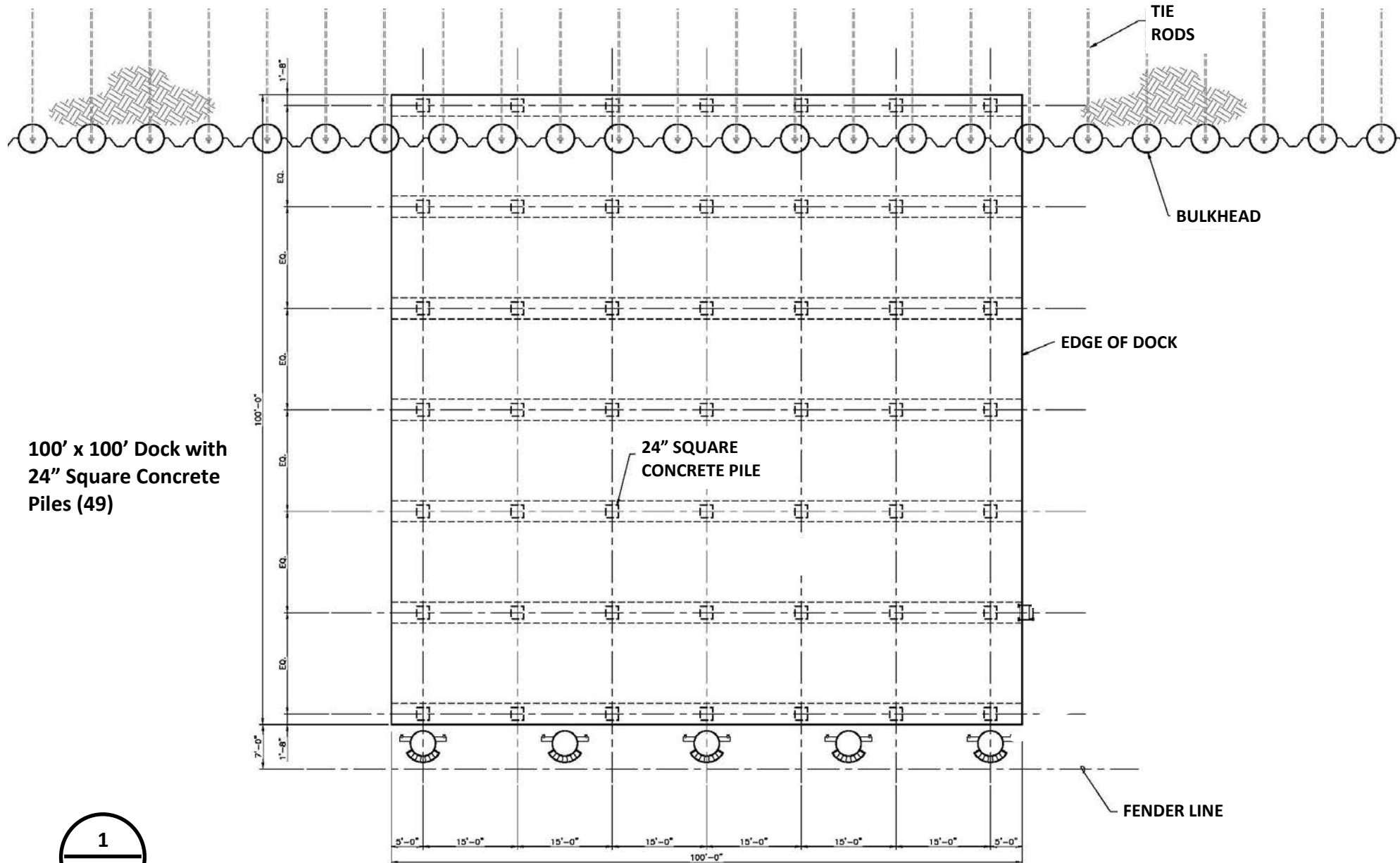
- Breasting Dolphin
- Mooring Dolphin
- ▲ Tire Guide Pile
- Barge Stop Piles (4 each)



Structural Site Plan

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Harris County, Texas



**100' x 100' Dock with
24" Square Concrete
Piles (49)**

1

D-6

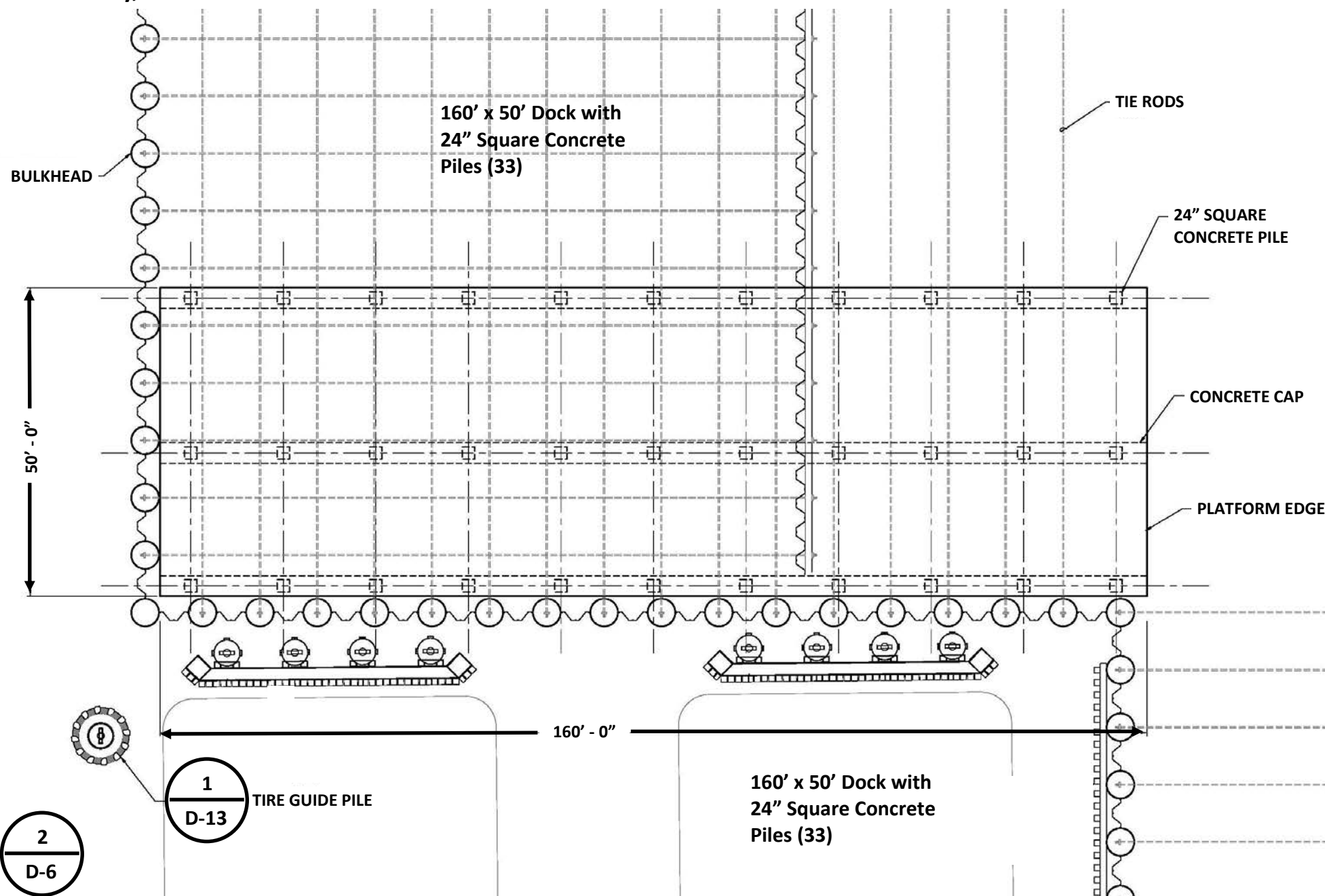
Typical Pile Plan for Docks 1, 2, & 4

TDWP Terminals I, LLC

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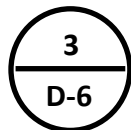
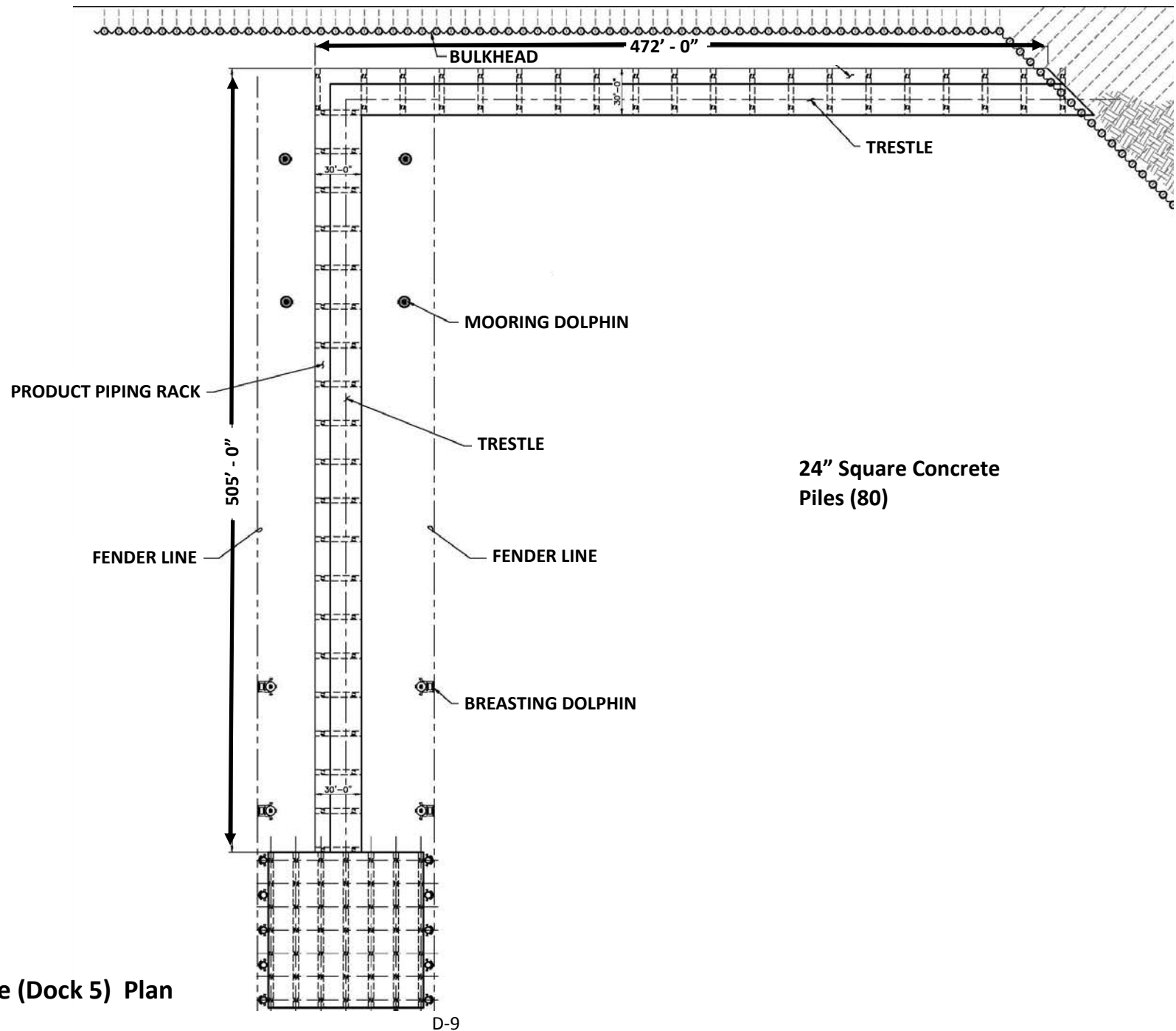
Barge Dock (Dock 3) Pile Plan

TDWP Terminals I, LLC

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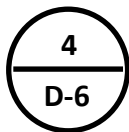
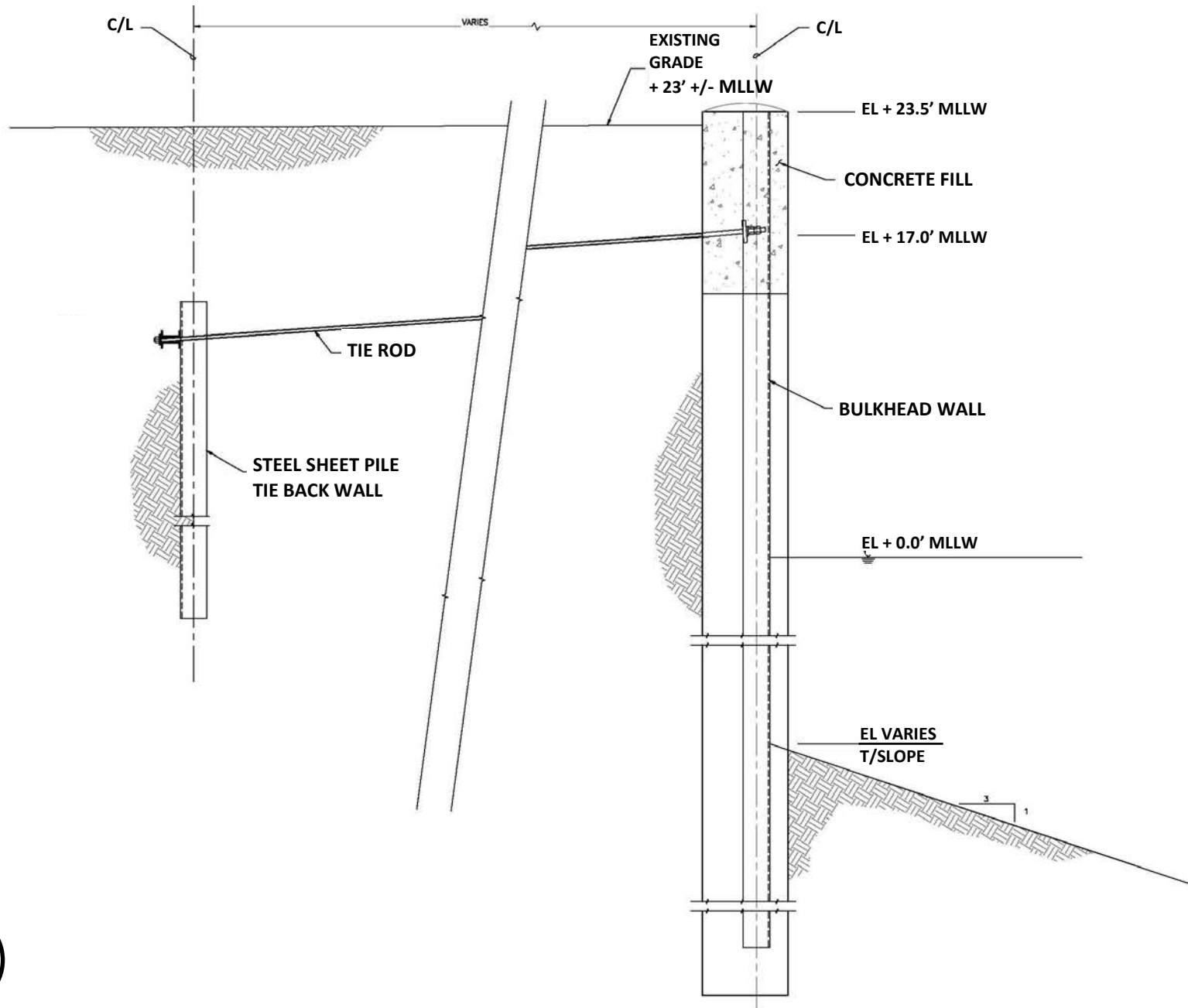
Pier and Approach Trestle (Dock 5) Plan

TDWP Terminals I, LLC

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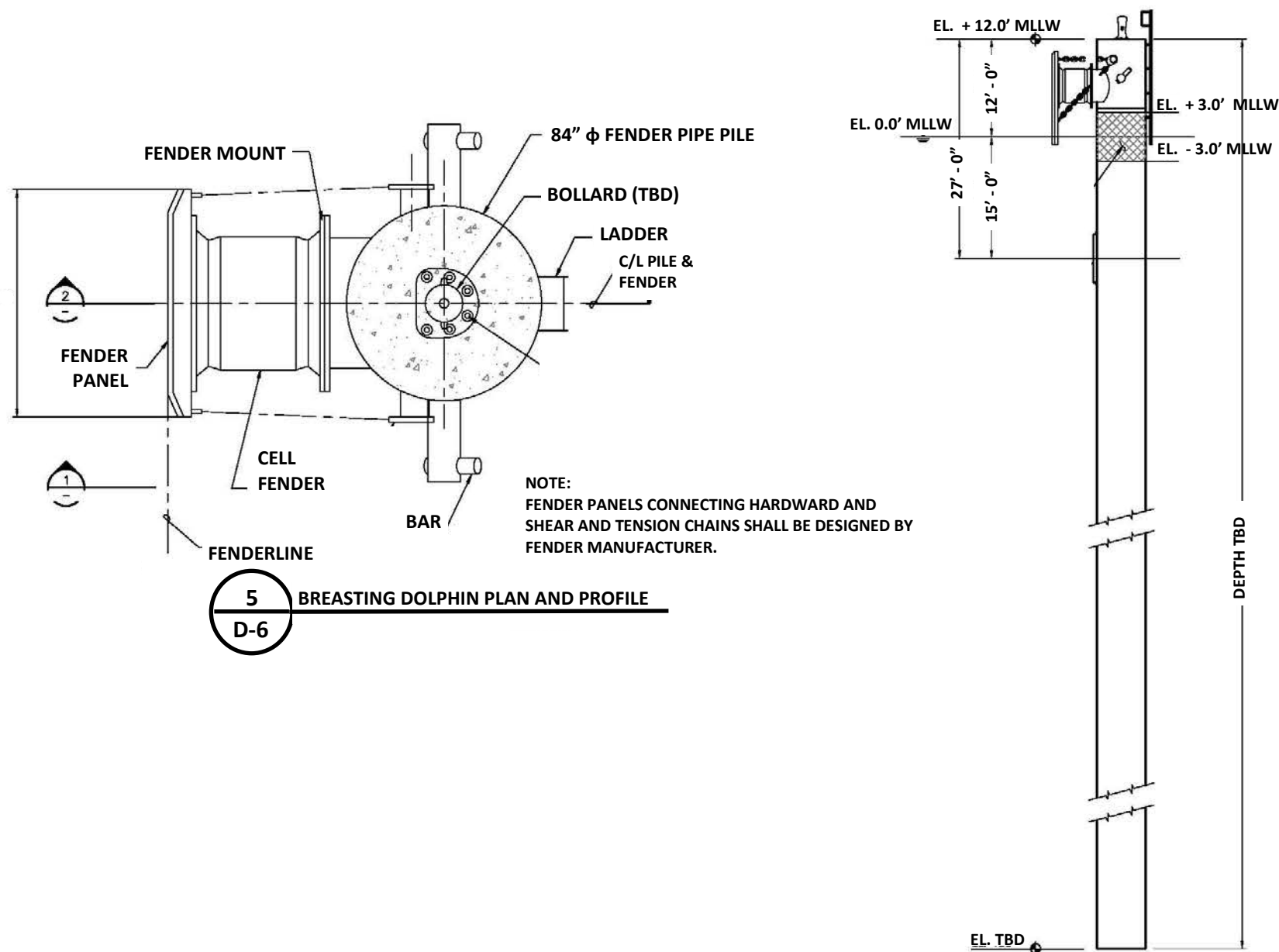
Typical Bulkhead Section

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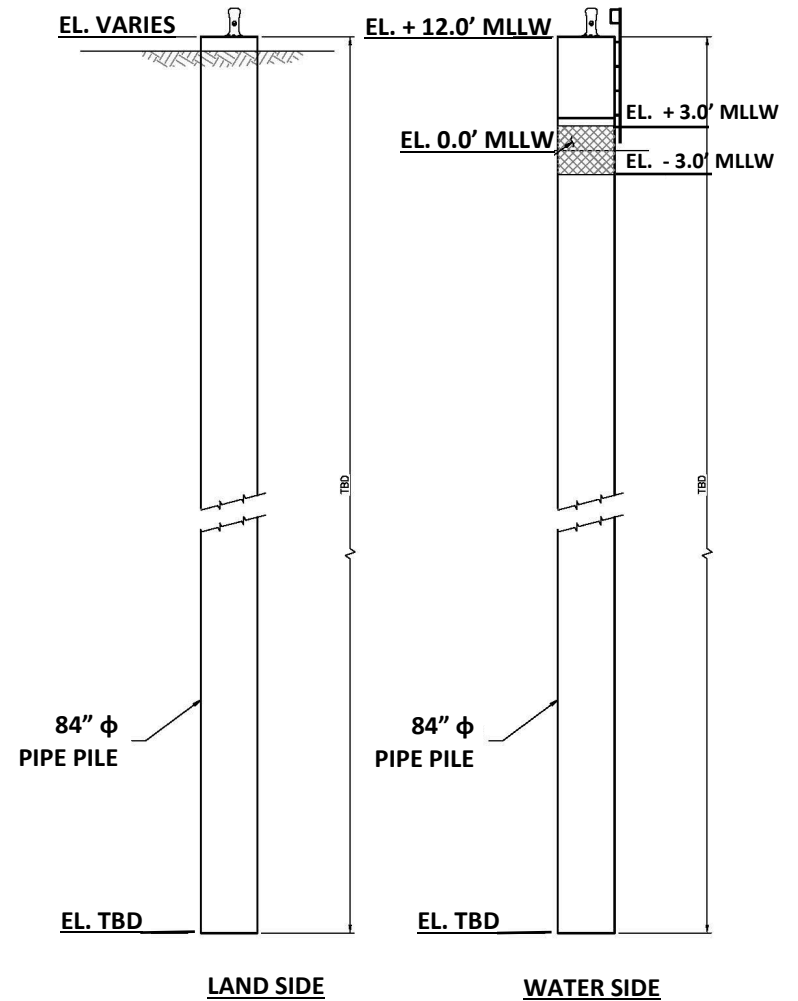
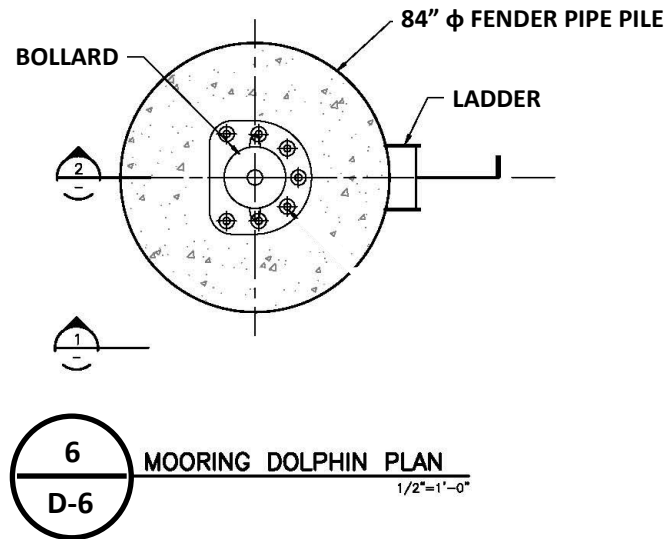
Breasting Dolphin Plan and Profile

TDWP Terminals I, LLC

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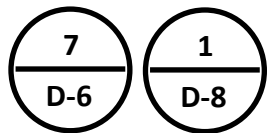
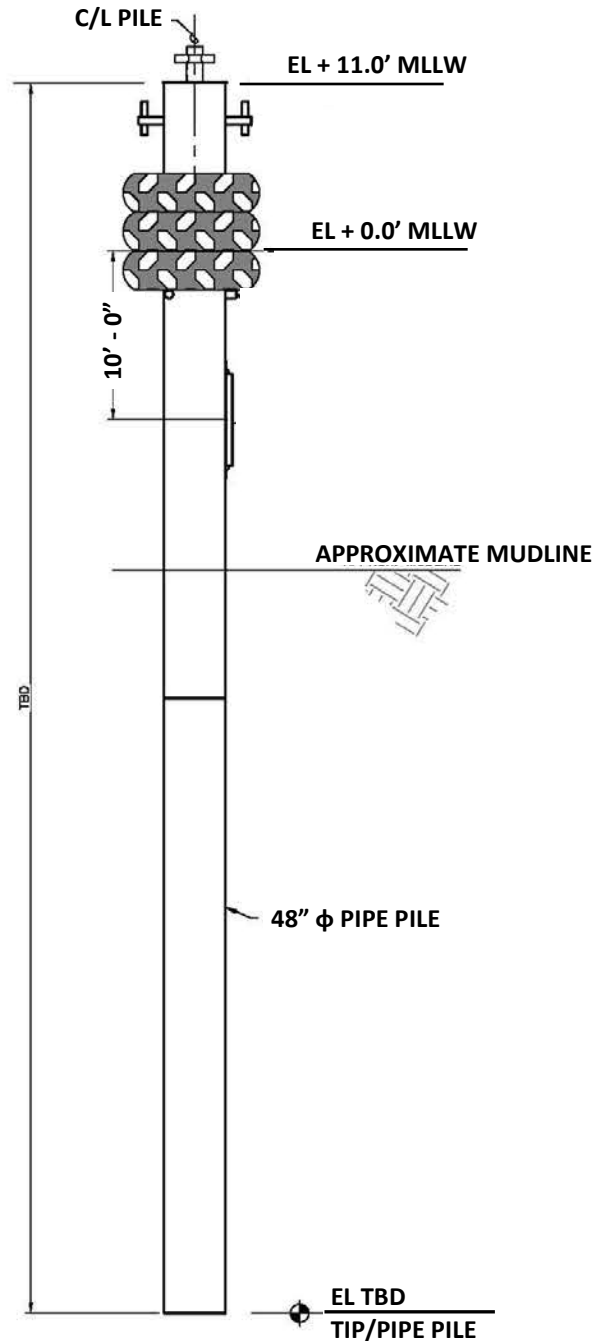
Mooring Dolphin Plan and Profile

TDWP Terminals I, LLC

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Harris County, Texas

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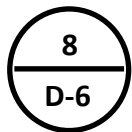
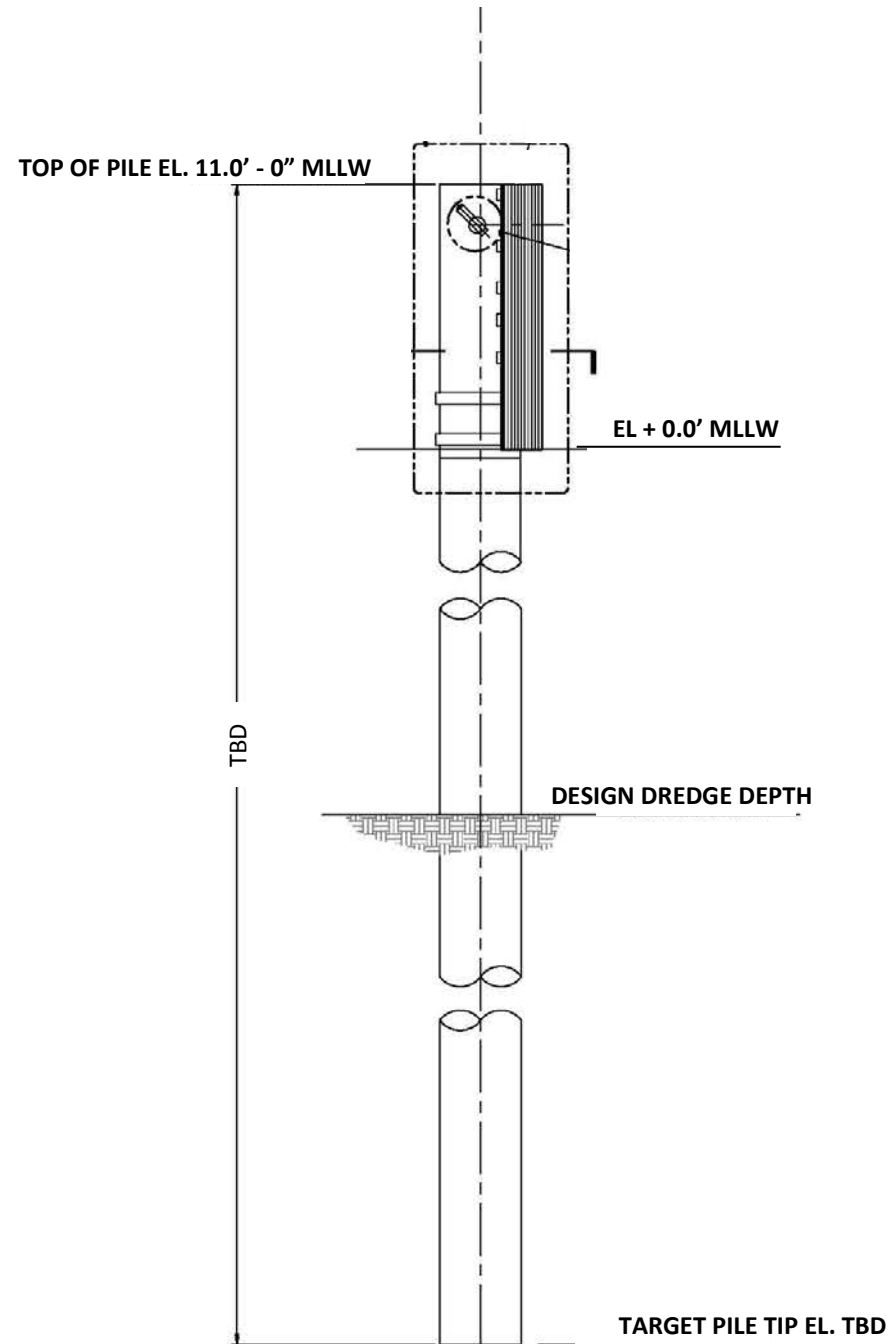
Tire Mooring Pile Plan

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Harris County, Texas

Exhibit D



Dock Protection Pile Section