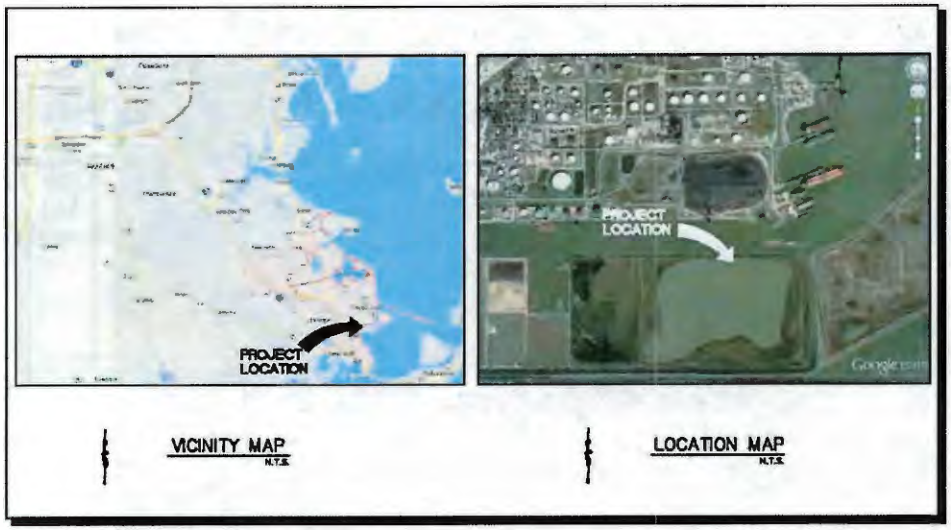
Oiltanking Texas Independent Deepwater Expansion, LLC SWG-2016-01025 Galveston County, TX	***Exhibit B*** **Vicinity Map** **March 8, 2018**	SCHNEIDER ENGINEERING & CONSULTING 323 23rd Street, Galveston, TX 77550 www.schneiderec.com

Oiltanking

Texas Independent Deepwater Expansion, LLC



INDEX OF DRAWINGS			
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C-2	General Notes	C-19	Structural Site Plan - Dock 3
C-3	Structural General Notes	C-20	Trestle and Pipe Rack Elevations - Docks 1 & 2
C-4	Project Footprint of Phases 1-3	C-21	Pile and Bent Plan - Docks 1 & 2 (1 of 2)
C-5	General Site Plan - Phase 1	C-22	Pile and Bent Plan - Docks 1 & 2 (2 of 2)
C-6	General Site Plan - Phase 2	C-23	Dock Elevations - Docks 1 & 2 (1 of 2)
C-7	General Site Plan - Phase 3	C-24	Dock Elevations - Docks 1 & 2 (2 of 2)
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C-11	Dredge Sections - Phase 1 (3 of 3)	C-29	Fender Pile Plan and Elevation - Docks 1 & 2
C-12	Dredge Site Plan - Phase 2	C-30	Fender Pile Plan and Elevation - Dock 3
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		C-36	Revetment Details - Phase 2
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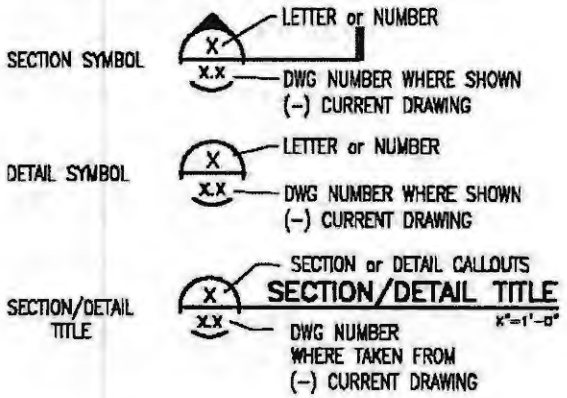
Exhibit C
Proposed Design

GENERAL NOTES

PROJECT INFORMATION

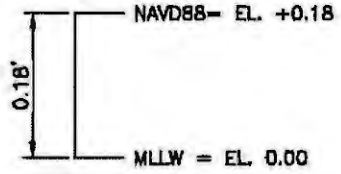
1. THE SCOPE OF WORK CONSISTS OF THE CONSTRUCTION OF A NEW MARINE TERMINAL IN TEXAS CITY, TX. TO FACILITATE THIS MARINE TERMINAL, THE CONTRACTOR SHALL DREDGE THE EXISTING LAND AND CHANNEL TO AN ELEVATION OF -45' MEAN LOWER LOW WATER(MLLW) WITH AN ALLOWABLE 2' OF OVER DREDGE TO THE EXTENTS SHOWN ON THESE DRAWINGS.
2. A NEW DOCK WILL BE CONSTRUCTED WITHIN THE LIMITS SHOWN IN THESE DRAWINGS. THE NEW CONSTRUCTION INCLUDES A PILE SUPPORTED DOCK AND WILL BE EQUIPPED WITH MARINE LOADING ARMS FOR THE UNLOADING AND LOADING OF BOTH VESSELS AND BARGES.
3. CONSTRUCTION OF THE NEW DOCK 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. THE DESIGN DREDGE DEPTH AT THE FENDERLINE, AND TO THE EXTENTS SHOWN, IS -45 FEET USING THE CORPS OF ENGINEERS MEAN LOWER LOW WATER (MLLW) TIDE DATUM.
5. PIPING AND UTILITIES TO THE DOCK WILL BE DESIGNED BY OTHERS.
6. THE NORTH SIDE OF DOCK WILL HAVE AN INDEPENDENTLY SUPPORTED PLATFORM THAT SHALL BE USED TO SUPPORT GANGWAY STRUCTURES PROVIDING INGRESS AND EGRESS FROM VESSELS TO THE DOCK.
7. AT A LOCATION TO THE SOUTH OF THE DOCK, AND EAST OF THE TRESTLE, AN INDEPENDENTLY SUPPORTED PLATFORM SHALL BE CONSTRUCTED TO SUPPORT A FIRE WATER PUMP ASSEMBLY UNIT.
8. LOCATED TO THE WEST OF THE TRESTLE, AND ALONG ITS LENGTH, SHALL BE INDEPENDENT PIPE RACK BENTS THAT SUPPORT THE PIPING OF THE FACILITY FROM THE UPLAND AREA TO THE DOCK. BENTS SHALL BE CONSTRUCTED OF P/S P/C PILES AND CAST-IN-PLACE CONCRETE CAPS.

SECTION/DETAIL KEY:



ELEVATION DATUM:

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



*DATUM DIFFERENCES SHOWN ARE REFLECTED FROM THE TCOON CONTROL POINT DESIGNATION OF 877 1486 C(GALVESTON RAILROAD BRIDGE).

GENERAL REQUIREMENTS

THE CONTRACTOR STAGING AREA SHALL BE LOCATED IN AN AREA DESIGNATED BY OILTANKING NORTH AMERICA, LLC.

DURING CONSTRUCTION TAKE EXTREME CAUTION AND CARE FROM ANY POSSIBLE FALLING DEBRIS. THE CONTRACTOR SHALL SUBMIT TO OILTANKING 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.

CONTRACTOR SHALL NOT BLOCK ACCESS ALONG THE TEXAS CITY HARBOR CHANNEL.

ALL BARGES AND FLOATING EQUIPMENT SHALL HAVE NAVIGATIONAL LIGHTS IN ACCORDANCE WITH US COAST GUARD (USCG) REQUIREMENTS.

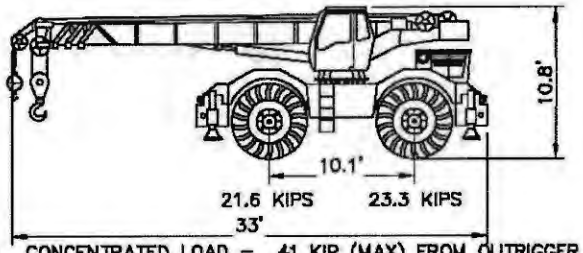
ALL CONSTRUCTION ACTIVITIES SHALL BE IN CONFORMANCE TO ALL PROJECT PERMIT CONDITIONS.

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.

STRUCTURAL GENERAL NOTES

DESIGN CRITERIA:

1. DEAD LOADS:
   - CIP CONCRETE CAPS
   - P/C BOX BEAMS
   - CIP TOPPING
   - MECHANICAL PIPING (FILLED WITH WATER)
   - LOADING ARMS
   - SERVICE CRANE
2. LIVE LOADS:
   - UNIFORM LIVE LOADS = 250 PSF
   - CRANE – GROVE RT518 ROUGH TERRAIN CRANE + 33% IMPACT



   - CONCENTRATED LOAD = 41 KIP (MAX) FROM OUTRIGGER
   - LOADING ARM REACTIONS:

   a. 16" ARM
   - 66 KIPS AXIAL

   a. 10" ARM
   - 27 KIPS AXIAL

3. VESSEL MOORING HARDWARE:
   - MOORING DOLPHINS WITH 150 TONNE BOLLARDS
   - BREASTING DOLPHINS WITH 125 TONNE BOLLARDS
4. VESSEL BERTHING FENDERS:
   - EIGHT (8) BREASTING DOLPHINS WITH TRELLEBORG SCK 1450H E2.5 CELL FENDER OR APPROVED EQUAL (1 EA.).
   - FENDER PANEL SHALL BE ADEQUATELY SIZED TO MAINTAIN THE MAXIMUM CONTACT STRESS, AS STATED IN THE SPECIFICATIONS. FENDER PANEL SHO THE DRAWINGS ARE FOR INFORMATIONAL PURPOSES AND ITS FINAL DESIGN SHOULD BE PERFORMED BY THE MANUFACTURER. FENDER PANEL CALCULA AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPRO BEFORE FABRICATION.
5. BARGE BERTHING FENDERS:
   - A CONTINUOUS FENDER PANEL SHALL BE PROVIDED, ON EITHER SIDE OF T DOCK, ALONG THE BERTHING FACE.
6. DESIGN VESSEL:
   - SUEZMAX (PARTIALLY LOADED) – 118,300 DWT; 918' LOA; 164' BEAM; 45 DRAFT
7. DESIGN BARGE:
   - INLAND MARINE BARGE – 3,350 DWT; 300' LOA; 54' BEAM; 9' DRAFT
8. PASSING SHIP: SUEZ CLASS @ 5 KNOTS W/ MINIMUM OF 2' UNDER KEEL CLEARANCE AT BERTH FOR SUEZMAX VESSEL.
9. APPROACH BERTHING VELOCITY OF DESIGN SHIP: 0.33 FT/SEC
10. APPRDACH BERTHING VELOCITY OF BARGE: 0.5 FT/SEC
11. DESIGN WIND LOADS: APPLICABLE ONLY TO DOCK, TRESTLE, AND FOUNDATION SUPPORT PLATFORMS
    - DESIGN WIND SPEED = 145 MPH (WITHOUT VESSEL)
    - DESIGN WIND SPEED = 60 MPH (WITH VESSEL)
    - LOADING ARM REACTIONS:

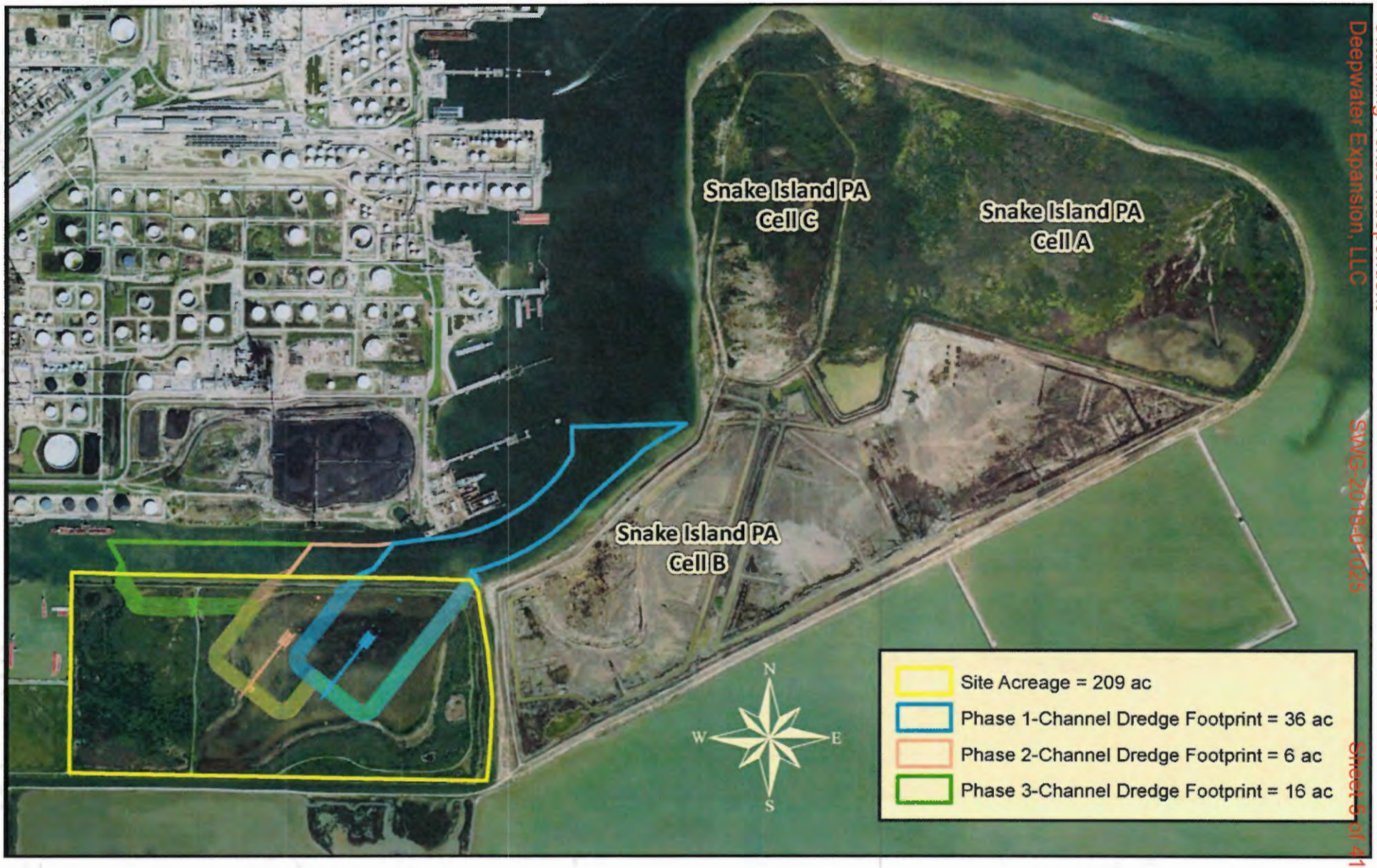
    a. 16" ARM
    - MAX MOMENT = 575 K–FT (EA.)
    - MAX SHEAR = 13.7 KIPS (EA.)

    b. 10" ARM
    - MAX MOMENT = 228 K–FT (EA.)
    - MAX SHEAR = 8.5 KIPS (EA.)
12. LOADING ARM REACTIONS AND BASEPLATE DIMENSIONS ARE BASED ON AN "EMCO WHEATON" 16" & 10" LOADING ARM. SEE MANUFACTURER DATA SHEET FOR BOLT SIZING AND LOCATION.

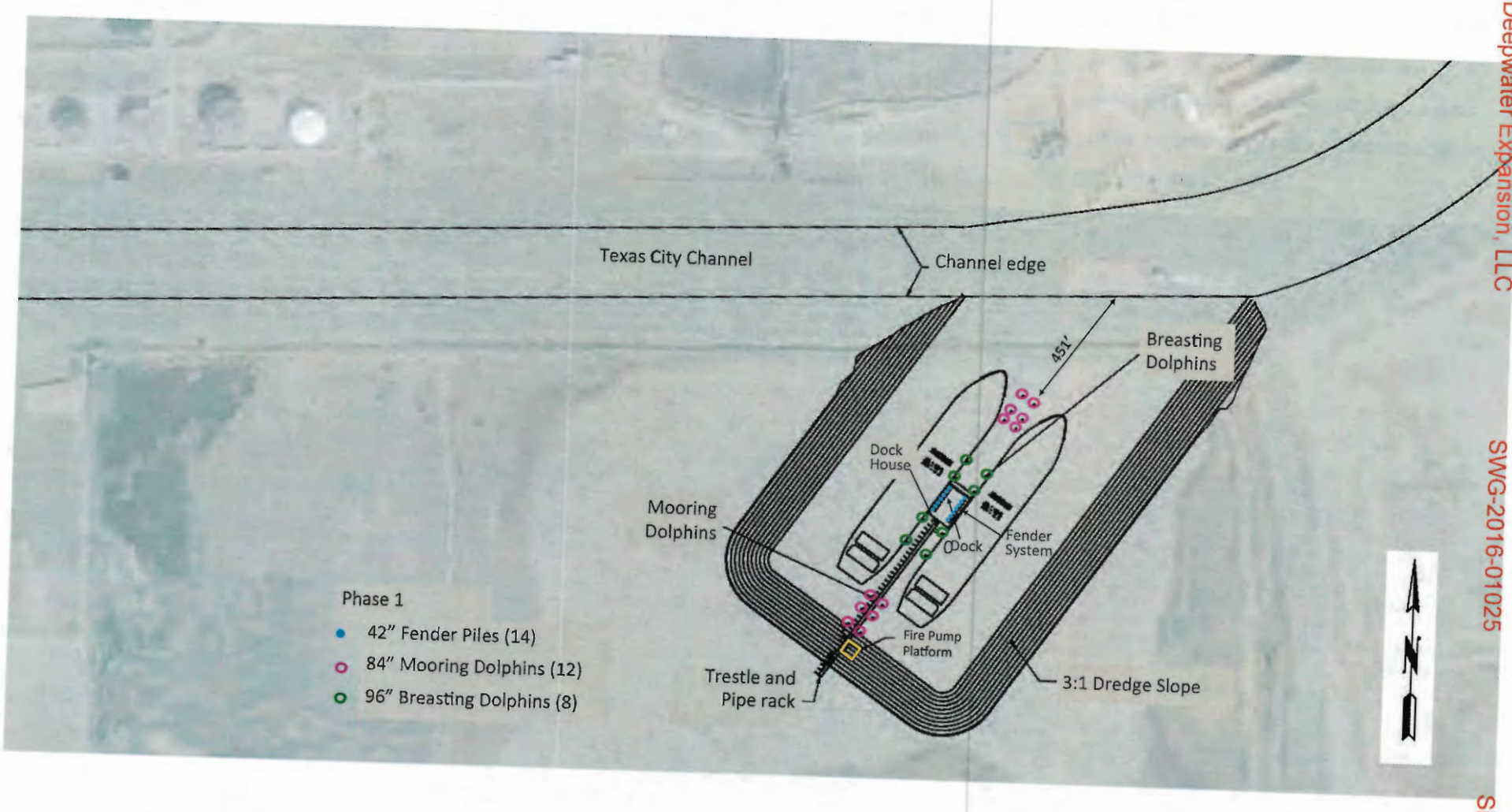
DESIGN REFERENCES:

1. UNIFIED FACILITIES CRITERIA (UFC), GENERAL CRITERIA FOR WATERFRONT CONSTRUCTION, UFC 4 151 10, 10 – SEPTEMBER – 2001.
2. MILITARY HANDBOOKS; "PIERS & WHARFS", MIL–HANDBOOK 1025/1; "GENERAL CRITERIA FOR WATERFRONT CONSTRUCTION", MIL–HANDBOOK 1025/6 AND NAVFAC DM–7 "SOIL MECHANICS, FOUNDATIONS, AND EARTH STRUCTURES".
3. ACI 318–11 – AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", 2011 EDITION
4. AISC – AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S "STEEL CONSTRUCTION MANUAL", 14TH EDITION, 2011
5. ASCE 7–10 – AMERICAN SOCIETY OF CIVIL ENGINEERS "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", 2010 EDITION
6. CRSI – CONCRETE REINFORCING STEEL INSTITUTE'S "MANUAL OF STANDARD PRACTICES"
7. PCI MNL 120–10 – PCI DESIGN HANDBOOK "PRECAST AND PRESTRESSED CONCRETE", 7TH EDITION
8. AWS D1.1 – AMERICAN WELDING SOCIETY'S "STRUCTURAL WELDING CODE – STEEL", 2010 EDITION
9. OCIMF – OIL COMPANIES INTERNATIONAL MARINE FORUM "EFFECTIVE MOORING", 3RD EDITION
10. PIANC – "GUIDELINES FOR THE DESIGN OF FENDER SYSTEMS", 2002 EDITION
11. 33 CFR – "WATERFRONT FACILITIES HANDLING LIQUEFIED HAZARDOUS GAS"

Project Footprint of Phases 1-3



GENERAL SITE PLAN—Phase 1



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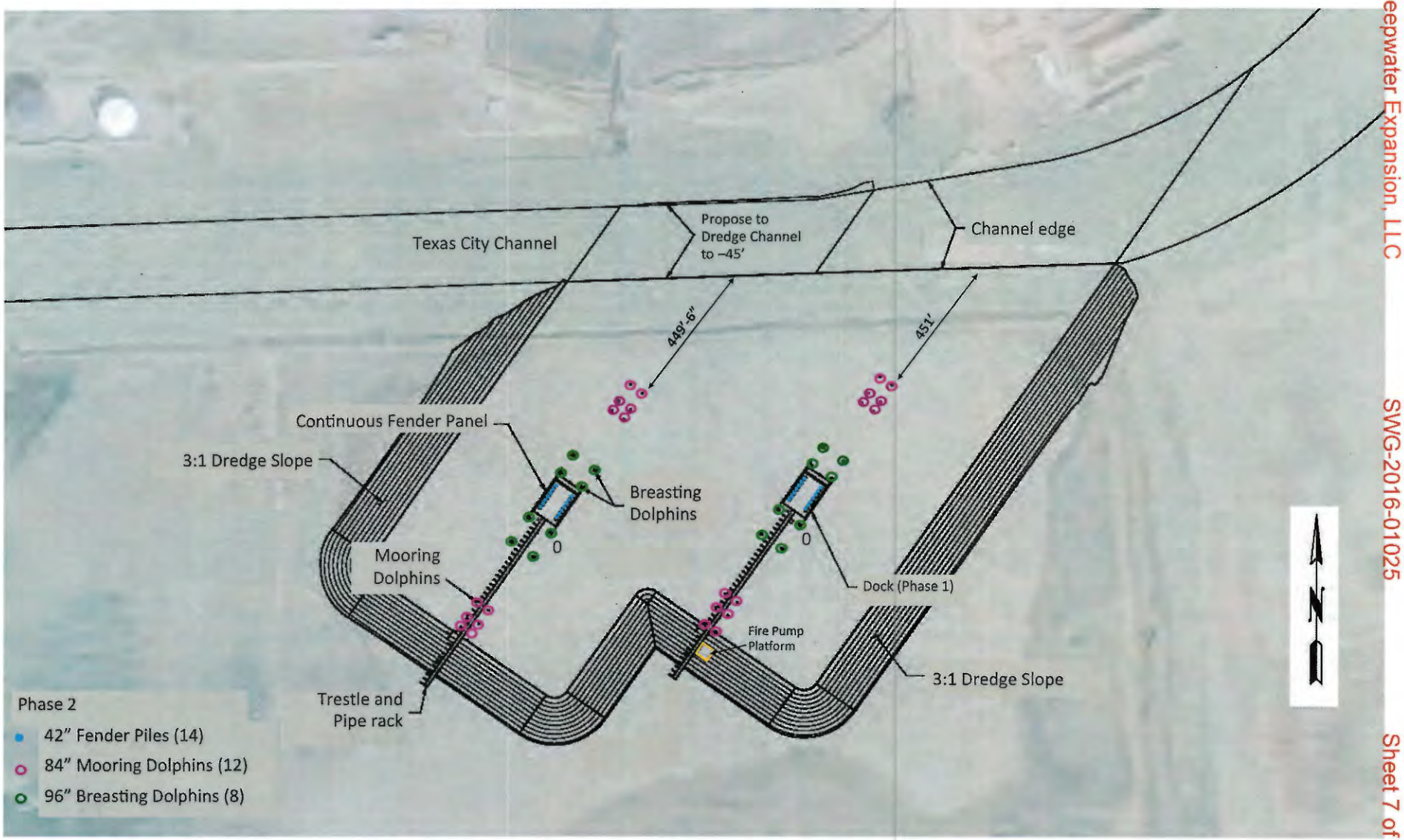
GENERAL SITE PLAN—Phase 2



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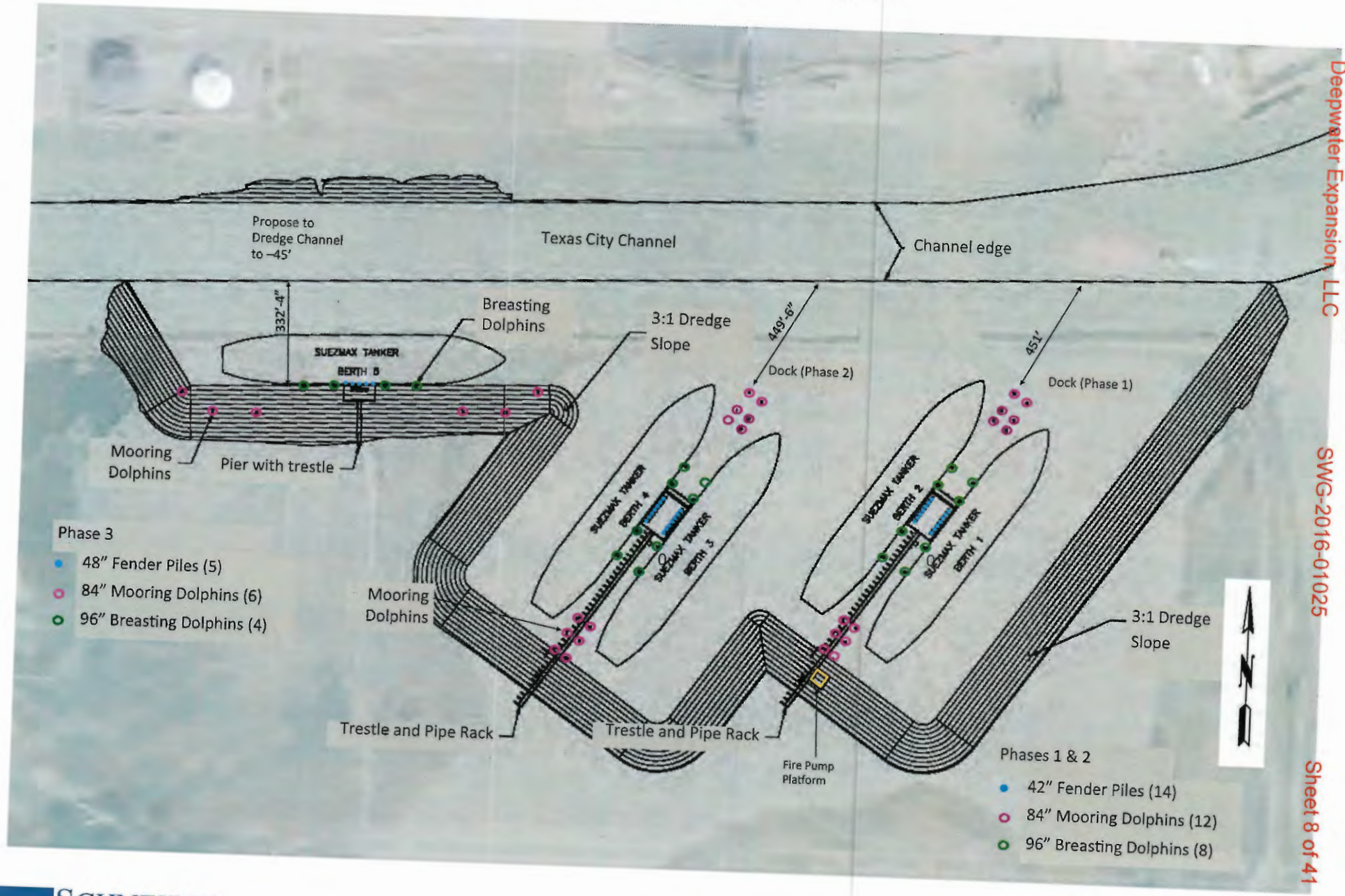
GENERAL SITE PLAN—Phase 3



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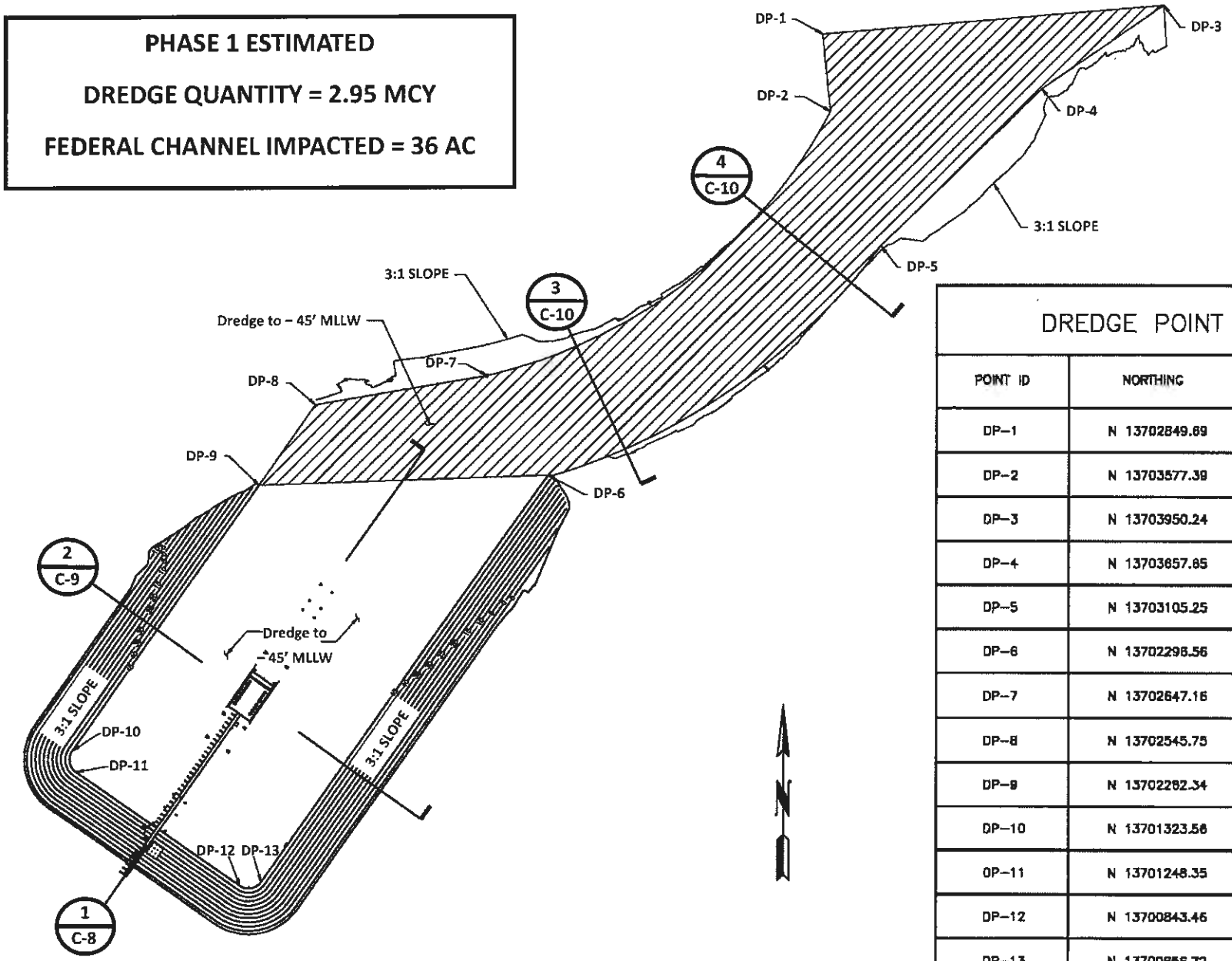
Proposed Design

DREDGING SITE PLAN—Phase 1

PHASE 1 ESTIMATED

DREDGE QUANTITY = 2.95 MCY

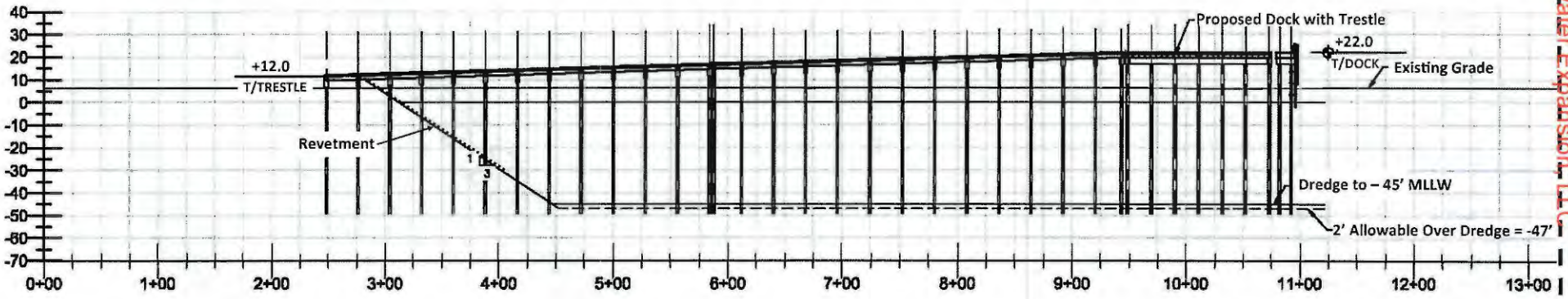
FEDERAL CHANNEL IMPACTED = 36 AC



DREDGE POINT TABLE

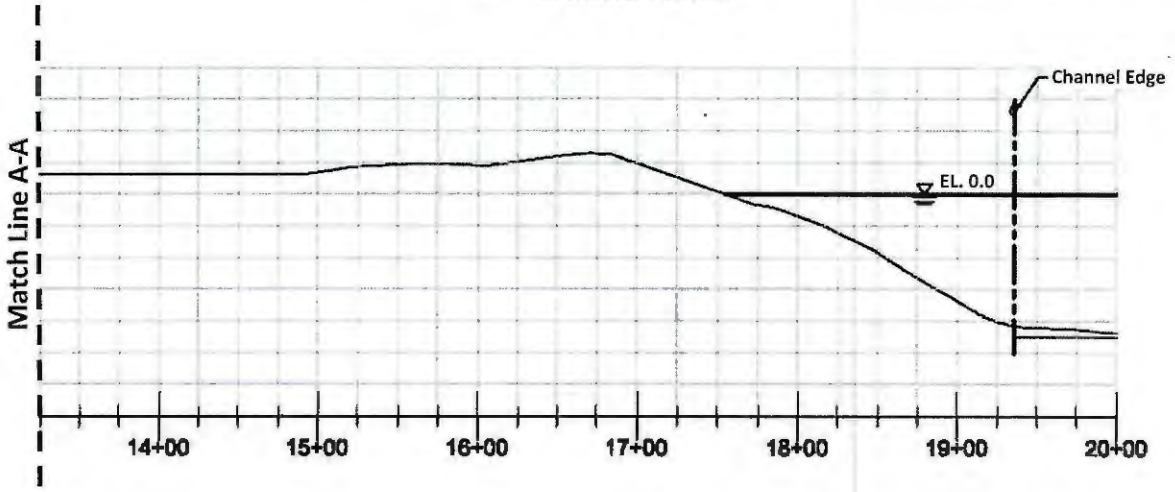
POINT ID	NORTHING	EASTING
DP–1	N 13702849.69	E 3277714.64
DP–2	N 13703577.39	E 3277741.37
DP–3	N 13703950.24	E 3278910.53
DP–4	N 13703657.85	E 3278482.45
DP–5	N 13703105.25	E 3277918.56
DP–6	N 13702296.56	E 3276758.19
DP–7	N 13702647.16	E 3276541.98
DP–8	N 13702545.75	E 3275939.07
DP–9	N 13702282.34	E 3275740.63
DP–10	N 13701323.56	E 3275083.29
DP–11	N 13701248.35	E 3275096.55
DP–12	N 13700843.46	E 3275674.80
DP–13	N 13700856.72	E 3275750.01

DREDGING SECTIONS—PHASE 1 (1 of 3)



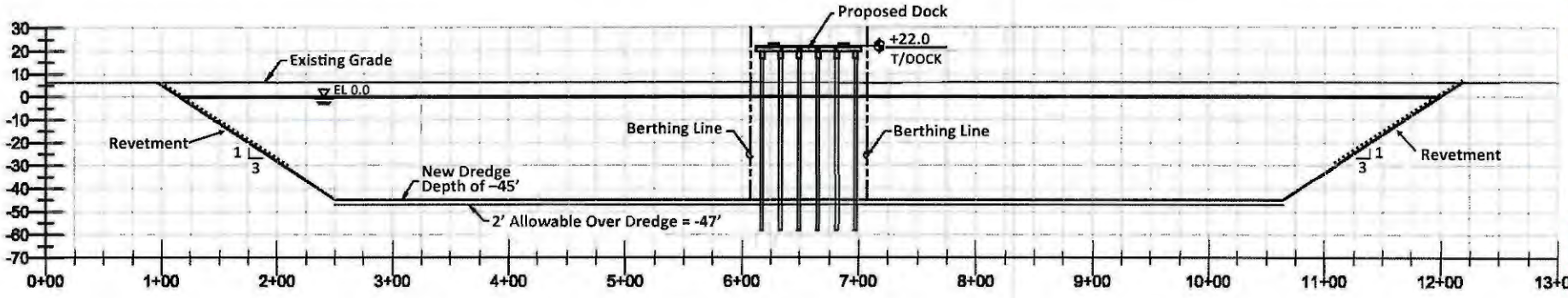
1 / C-7 SECTION
* ELEVATION SCALE SHOWN IS MEASURED IN THE MLLW DATUM

Breasting and Mooring Structures Not Shown for Clarity



1 / C-7 SECTION
* ELEVATION SCALE SHOWN IS MEASURED IN THE MLLW DATUM

DREDGING SECTIONS—PHASE 1 (2 of 3)

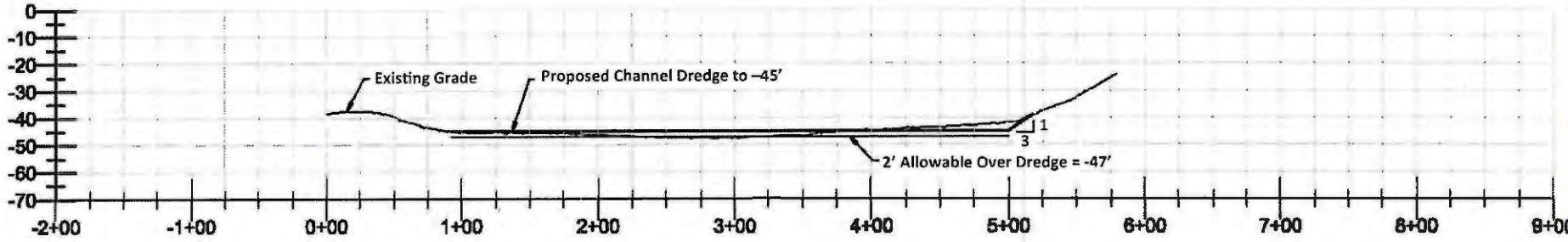


2 / C-7 **SECTION**

* ELEVATION SCALE SHOWN IS MEASURED IN THE MLLW DATUM

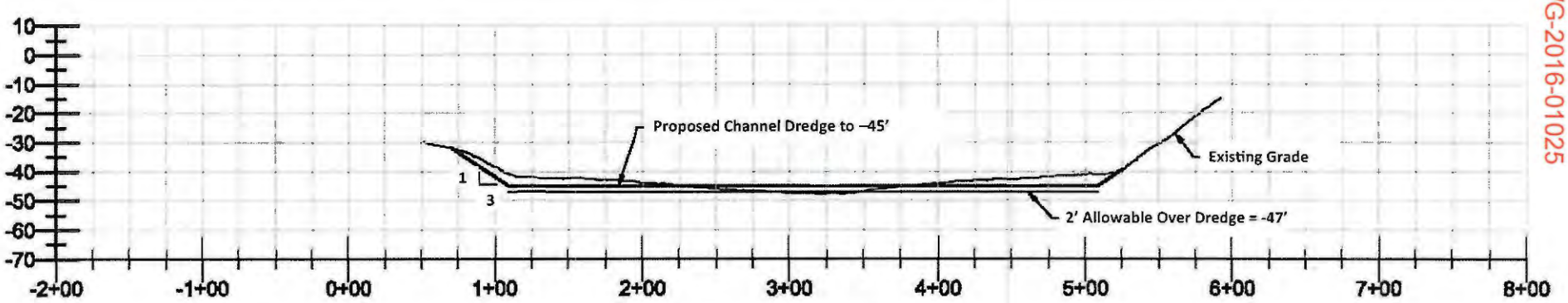
Breasting and Mooring Structures Not Shown for Clarity

DREDGING SECTIONS—PHASE 1 (3 of 3)



3 / C-7 **SECTION**

* ELEVATION SCALE SHOWN IS MEASURED IN THE MLLW DATUM



4 / C-7 **SECTION**

* ELEVATION SCALE SHOWN IS MEASURED IN THE MLLW DATUM

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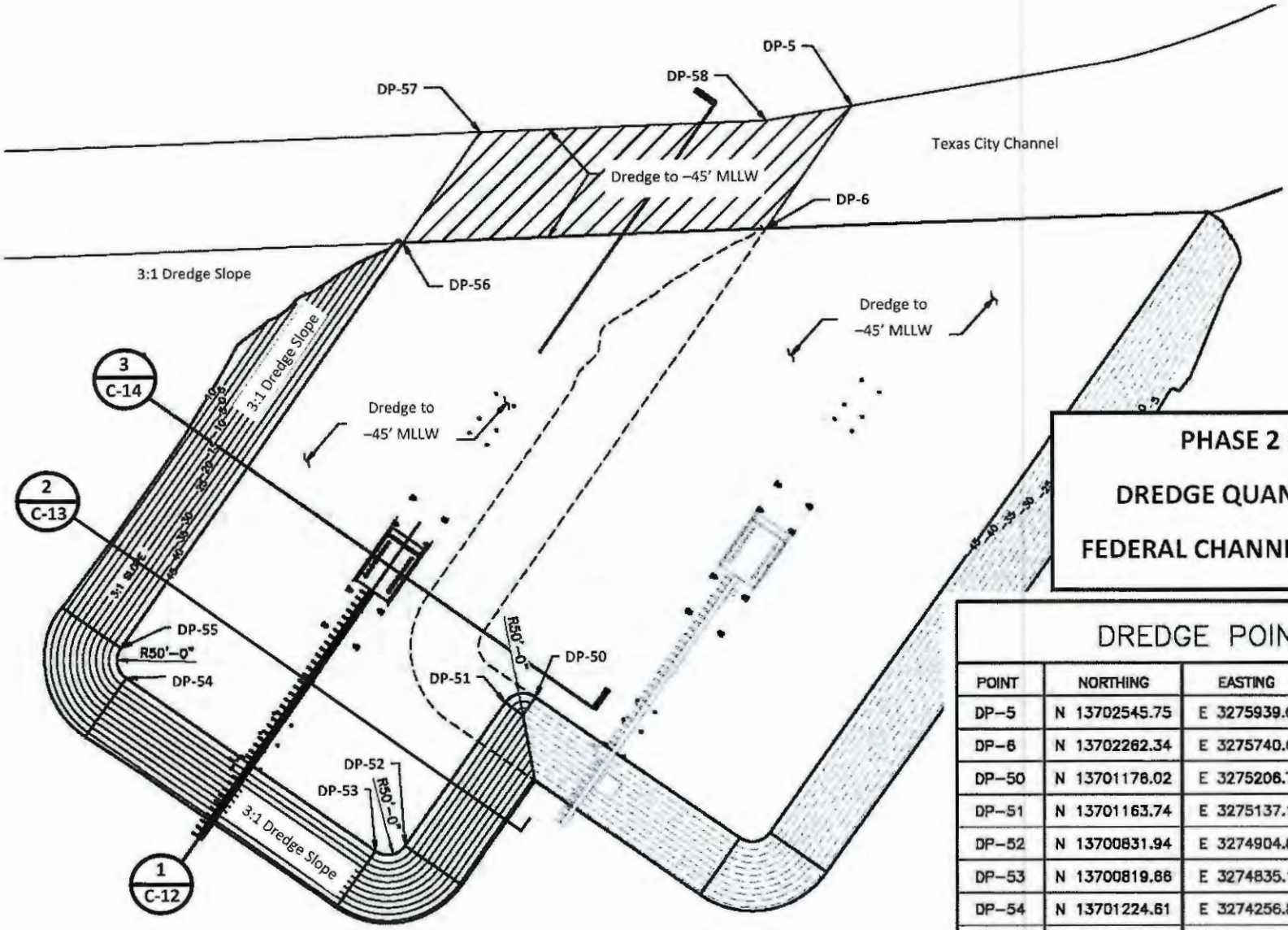
Proposed Design

DREDGING SITE PLAN—Phase 2



PHASE 2 ESTIMATED

DREDGE QUANTITY = 2.66 MCY

FEDERAL CHANNEL IMPACTED = 6 AC

DREDGE POINT TABLE

POINT	NORTHING	EASTING	DESCRIPTION
DP–5	N 13702545.75	E 3275939.07	PHASE ONE
DP–6	N 13702262.34	E 3275740.63	PHASE ONE
DP–50	N 13701178.02	E 3275206.76	-----
DP–51	N 13701163.74	E 3275137.12	-----
DP–52	N 13700831.94	E 3274904.80	-----
DP–53	N 13700819.66	E 3274835.16	-----
DP–54	N 13701224.61	E 3274256.84	-----
DP–55	N 13701294.24	E 3274244.56	-----
DP–56	N 13702512.51	E 3275741.50	-----
DP–57	N 13702490.34	E 3275082.08	-----
DP–58	N 13702234.16	E 3274902.70	-----

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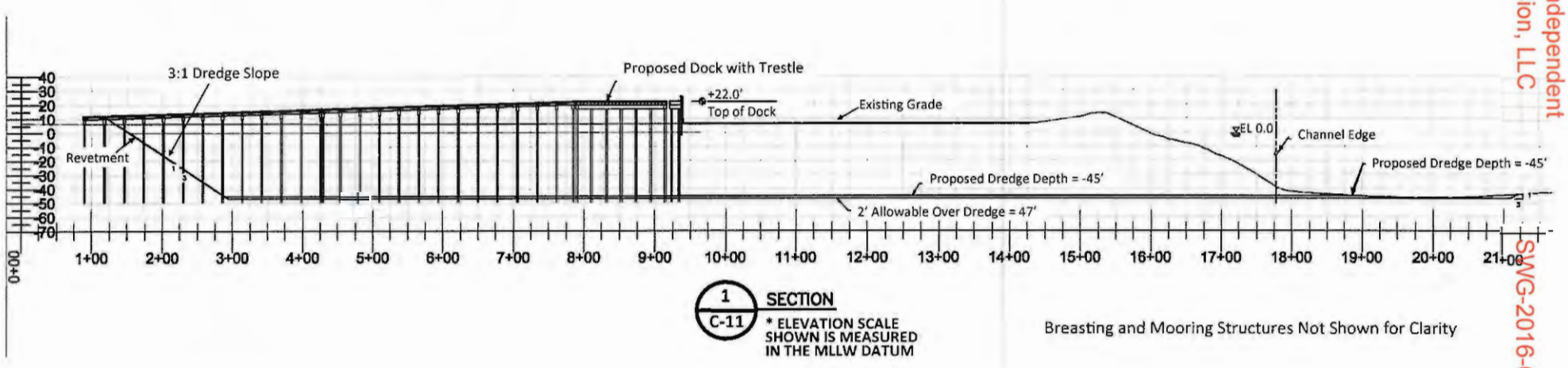
Exhibit C

DREDGING SECTIONS—PHASE 2 (1 of 3)

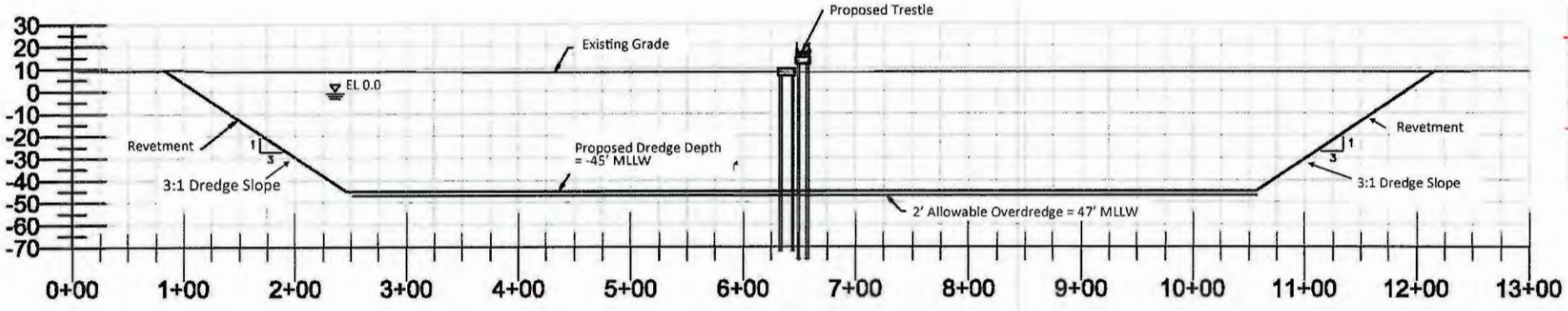


1/C-11 SECTION

* ELEVATION SCALE SHOWN IS MEASURED IN THE MLLW DATUM

Breasting and Mooring Structures Not Shown for Clarity

DREDGING SECTIONS—PHASE 2 (2 of 3)

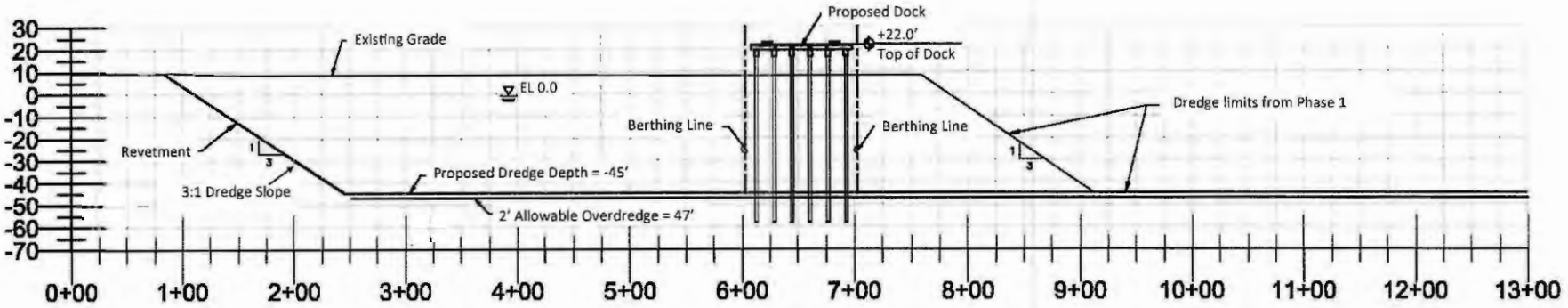


2 / C-11 SECTION

* ELEVATION SCALE SHOWN IS MEASURED IN THE MLLW DATUM

Breasting and Mooring Structures Not Shown for Clarity

DREDGING SECTIONS—PHASE 2 (3 of 3)

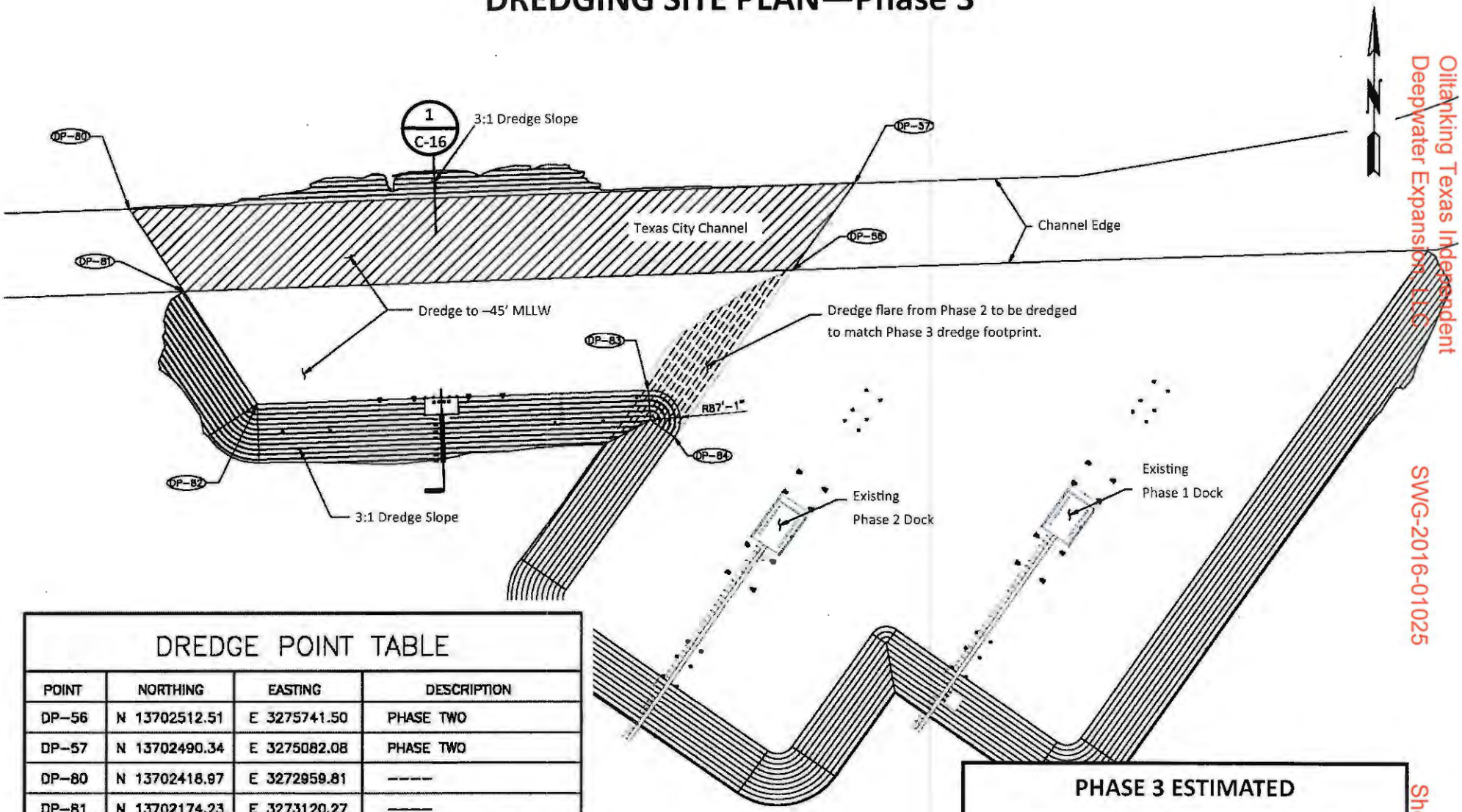


3 / C-11 **SECTION**

* ELEVATION SCALE SHOWN IS MEASURED IN THE MLLW DATUM

Breasting and Mooring Structures Not Shown for Clarity

DREDGING SITE PLAN—Phase 3



DREDGE POINT TABLE			
POINT	NORTHING	EASTING	DESCRIPTION
DP–56	N 13702512.51	E 3275741.50	PHASE TWO
DP–57	N 13702490.34	E 3275082.08	PHASE TWO
DP–80	N 13702418.97	E 3272959.81	-----
DP–81	N 13702174.23	E 3273120.27	-----
DP–82	N 13701843.62	E 3273337.02	-----
DP–83	N 13701882.15	E 3274482.78	-----
DP–84	N 13701743.90	E 3274559.41	-----

PHASE 3 ESTIMATED

DREDGE QUANTITY = 1.63 MCY

FEDERAL CHANNEL IMPACTED = 16 AC

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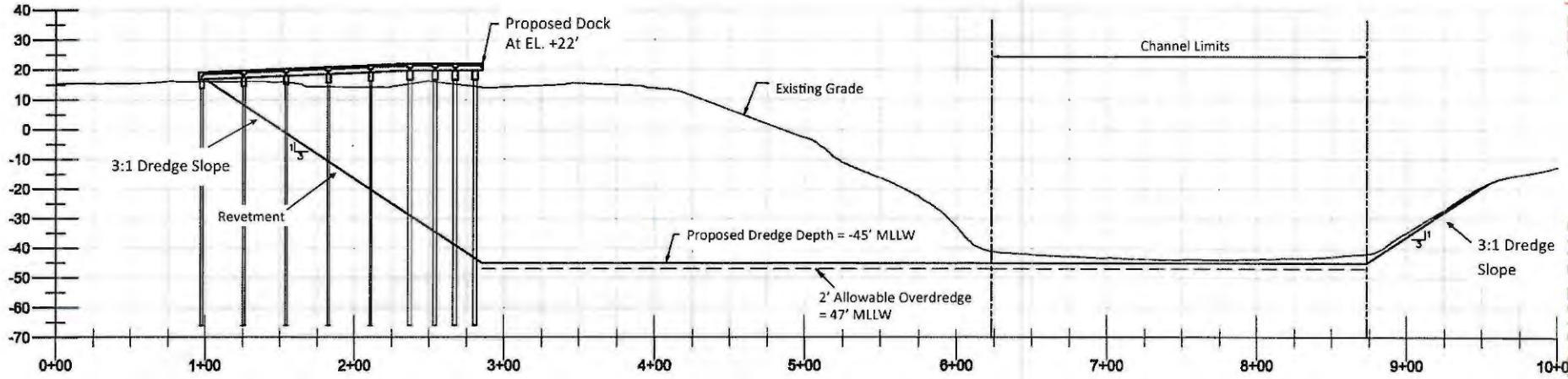
DREDGING SECTION—PHASE 3



1 / C-15 SECTION

* ELEVATION SCALE SHOWN IS MEASURED IN THE MLLW DATUM

Breasting and Mooring Structures Not Shown for Clarity

STRUCTURAL SITE PLAN—Docks 1 & 2

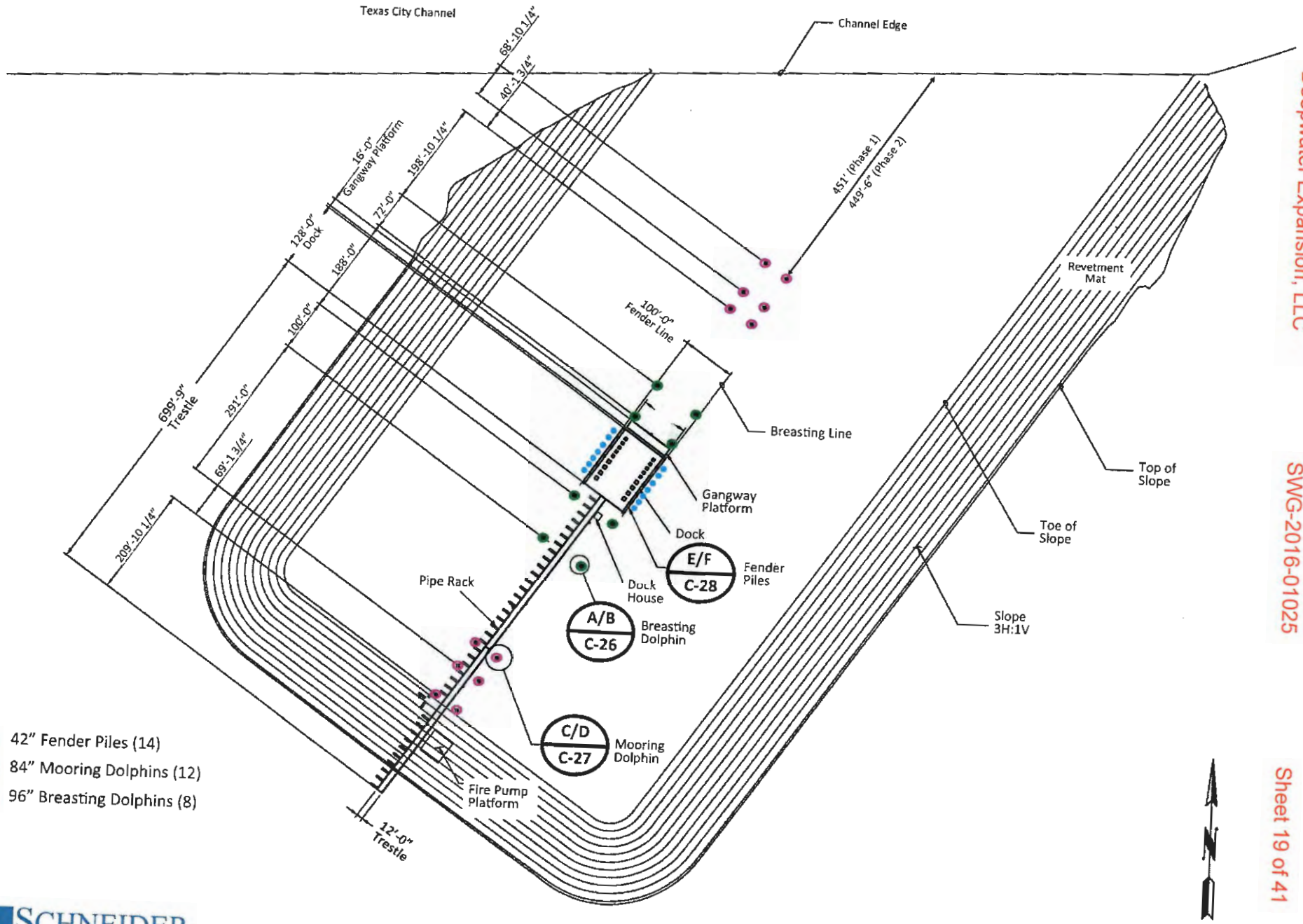


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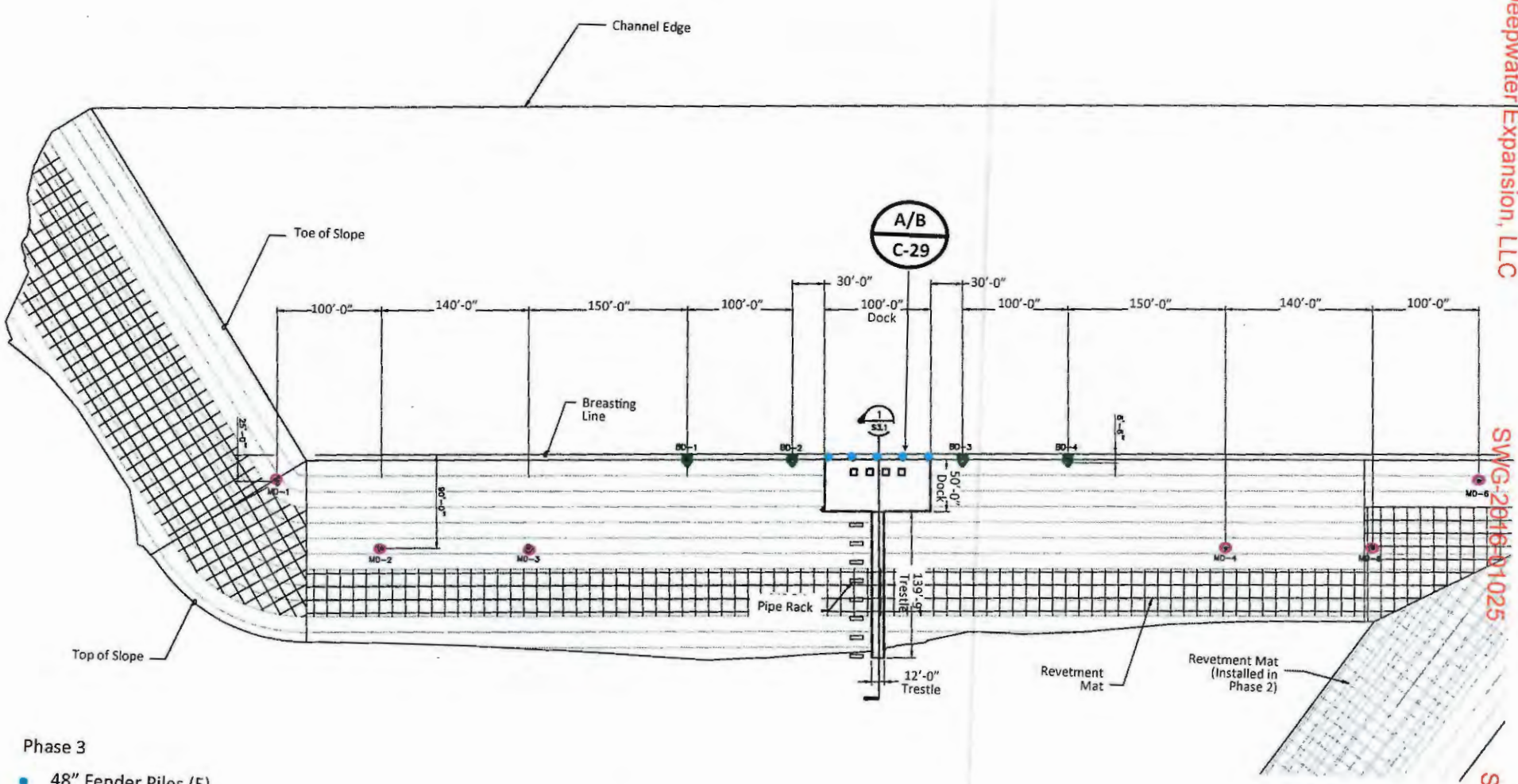
Exhibit C

STRUCTURAL SITE PLAN—Dock 3



Phase 3

- 48" Fender Piles (5)
- 84" Mooring Dolphins (6)
- 96" Breasting Dolphins (4)

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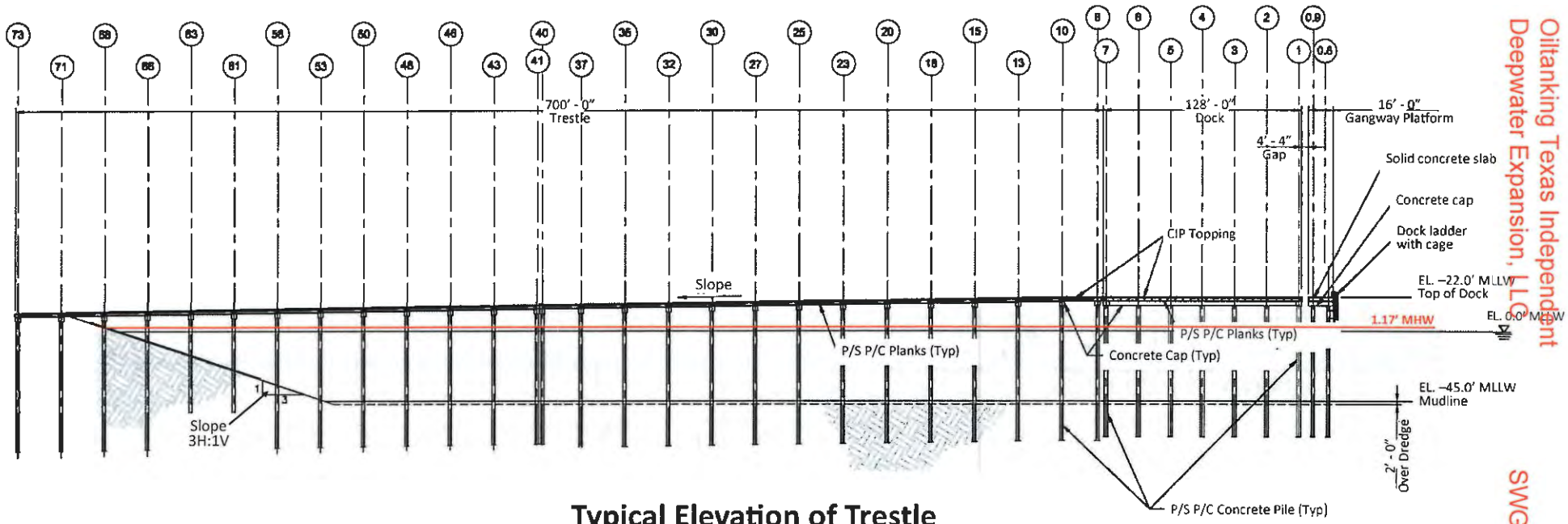
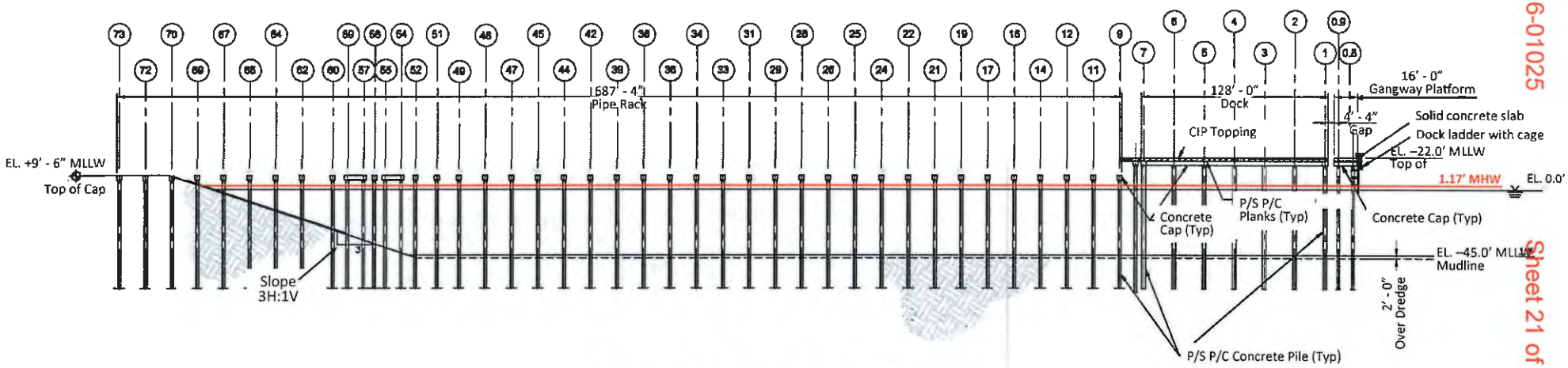
Exhibit C
Proposed Design

TRESTLE AND PIPE RACK ELEVATIONS—DOCKS 1 & 2

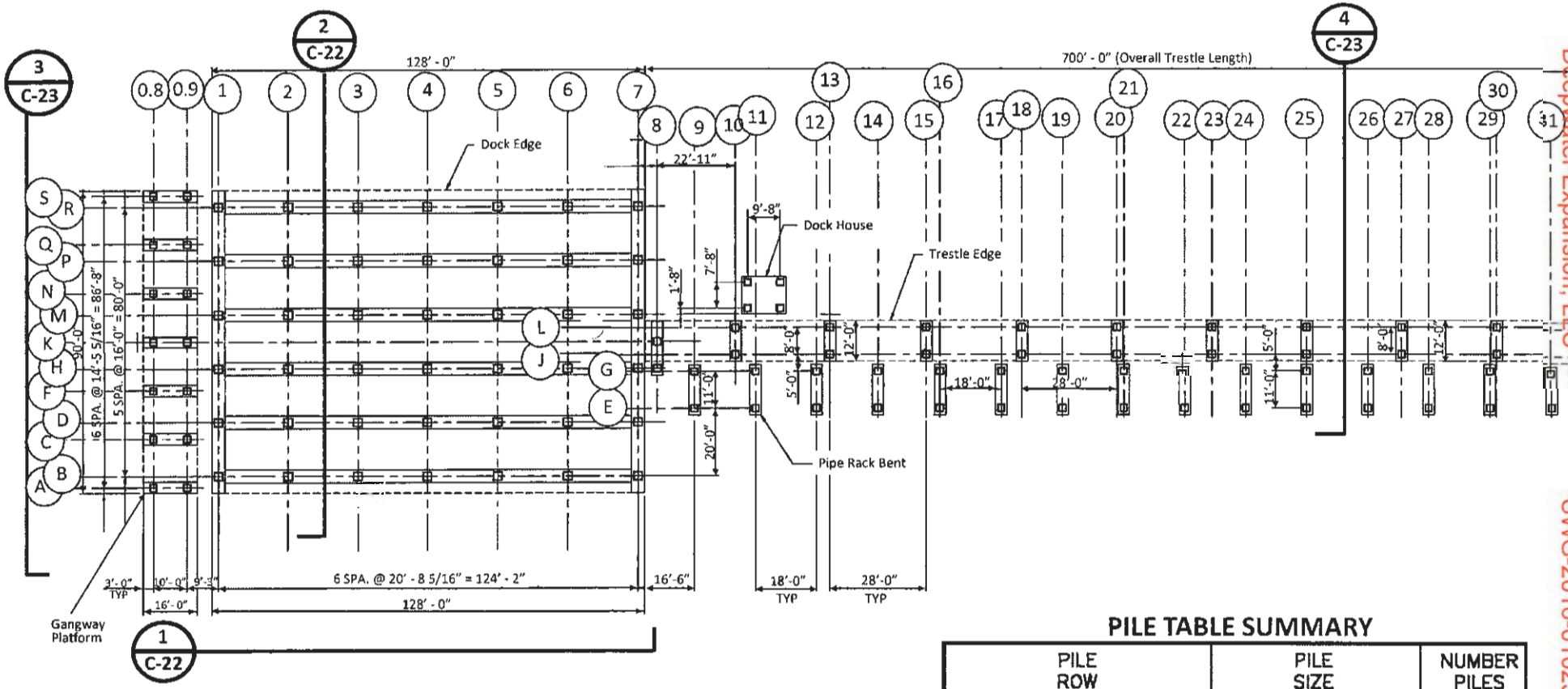


Typical Elevation of Trestle



Typical Elevation of Pipe Rack

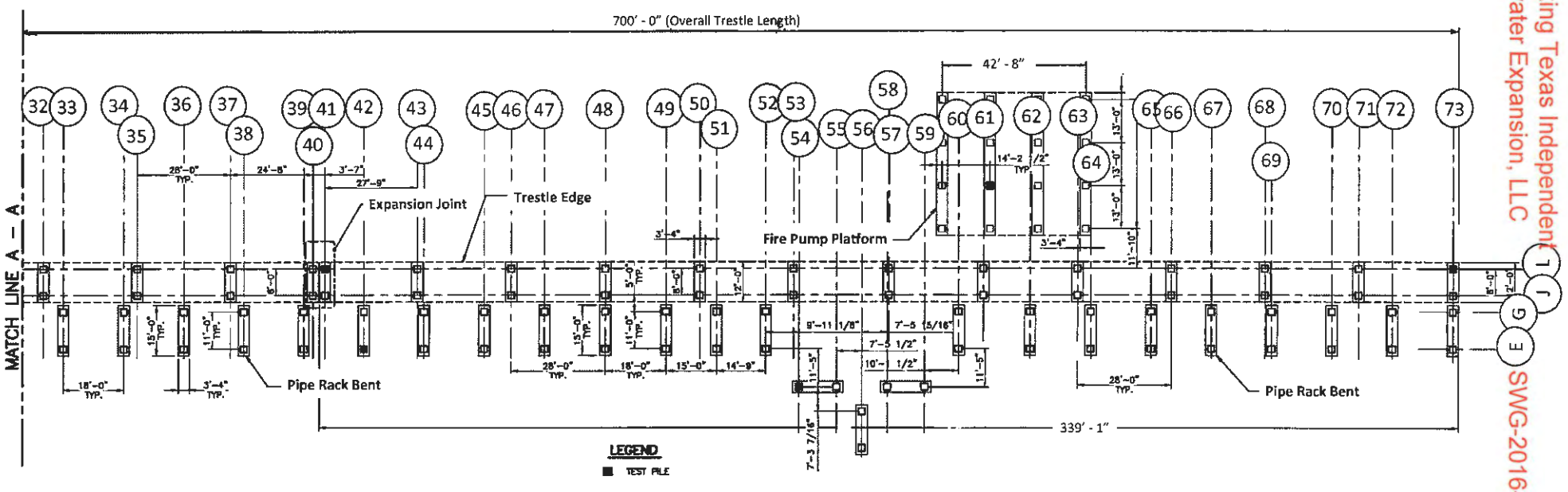
PILE AND BENT PLAN—DOCKS 1 & 2 (1 OF 2)



PILE TABLE SUMMARY

PILE ROW	PILE SIZE	NUMBER PILES
0.8A – 0.9S	24" SQ. P/S	14
1B – 7R	30" SQ. P/S	42
9E–47G	24" SQ. P/S	48
8H,8K,10J–18L	24" SQ. P/S	10
20J–50L	24" SQ. P/S	28
53J – 58L	24" SQ. P/S	4
61J–73L	24" SQ. P/S	12
48E–73G	24" SQ. P/S	32
DOCK HOUSE	24" SQ. P/S	4
FIRE PUMP PLATFORM	24" SQ. P/S	16

PILE AND BENT PLAN—DOCKS 1 & 2 (2 OF 2)



PILE TABLE SUMMARY

PILE ROW	PILE SIZE	NUMBER PILES
0.8A – 0.9S	24" SQ. P/S	14
1B – 7R	30" SQ. P/S	42
9E–47G	24" SQ. P/S	48
8H,8K,10J–18L	24" SQ. P/S	10
20J–50L	24" SQ. P/S	28
53J – 58L	24" SQ. P/S	4
61J–73L	24" SQ. P/S	12
48E–73G	24" SQ. P/S	32
DOCK HOUSE	24" SQ. P/S	4
FIRE PUMP PLATFORM	24" SQ. P/S	16

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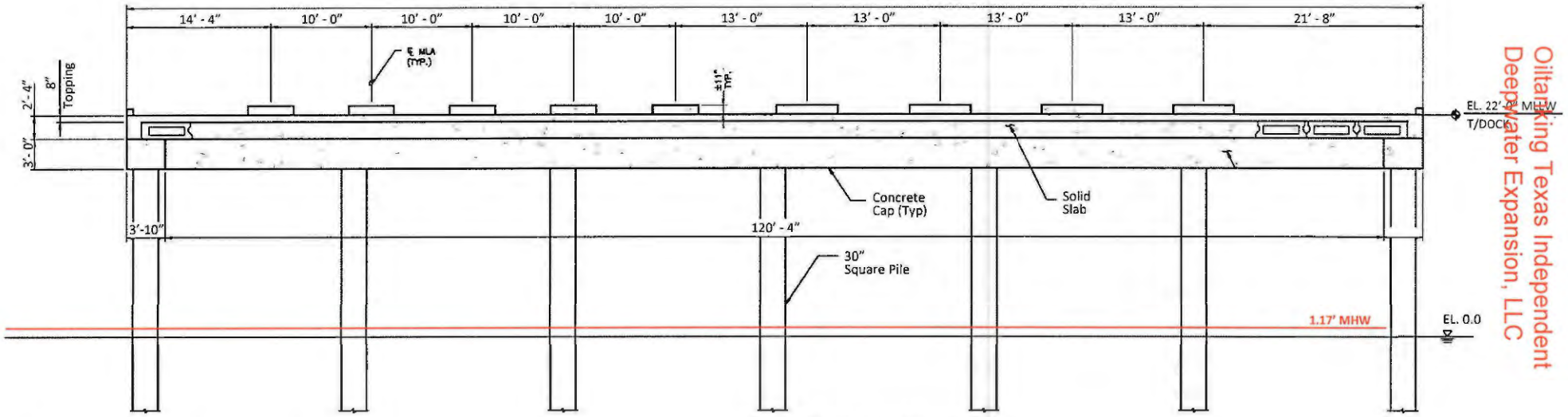
Exhibit C

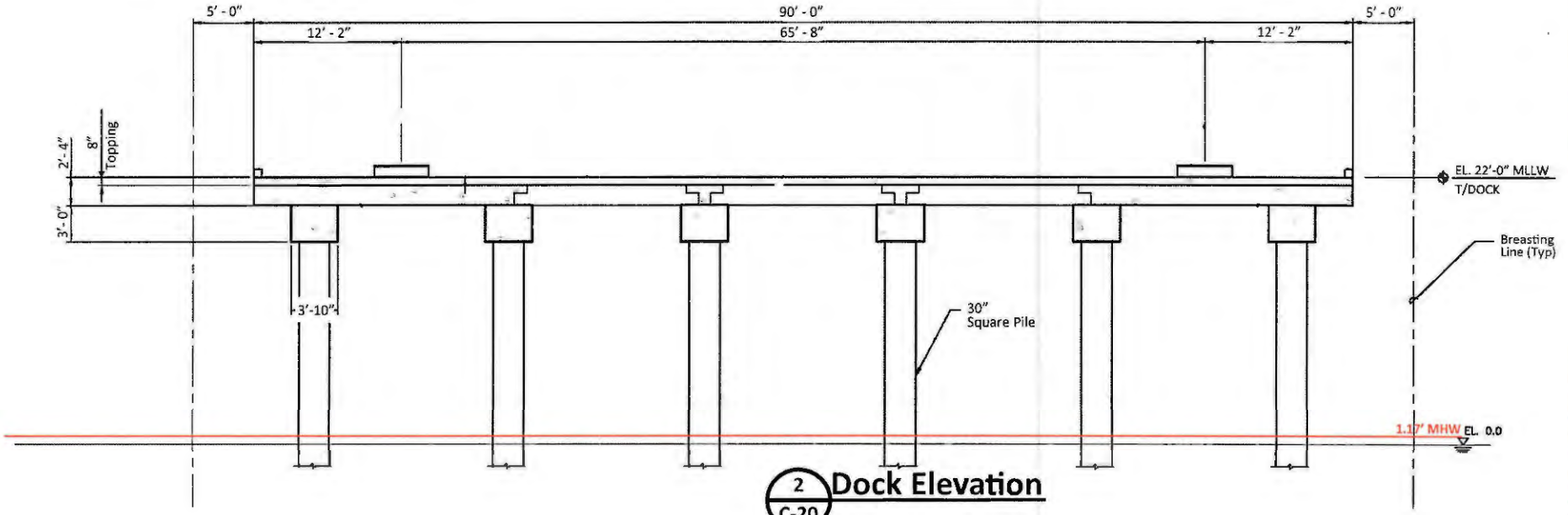
Proposed Design

DOCK ELEVATIONS—DOCKS 1 & 2 (1 OF 2)



*FENDER PANEL & GANGWAY PLATFORM NOT SHOWN FOR CLARITY

1 C-20 Dock Elevation



2 C-20 Dock Elevation

Oiltanking Texas Independent Deepwater Expansion, LLC

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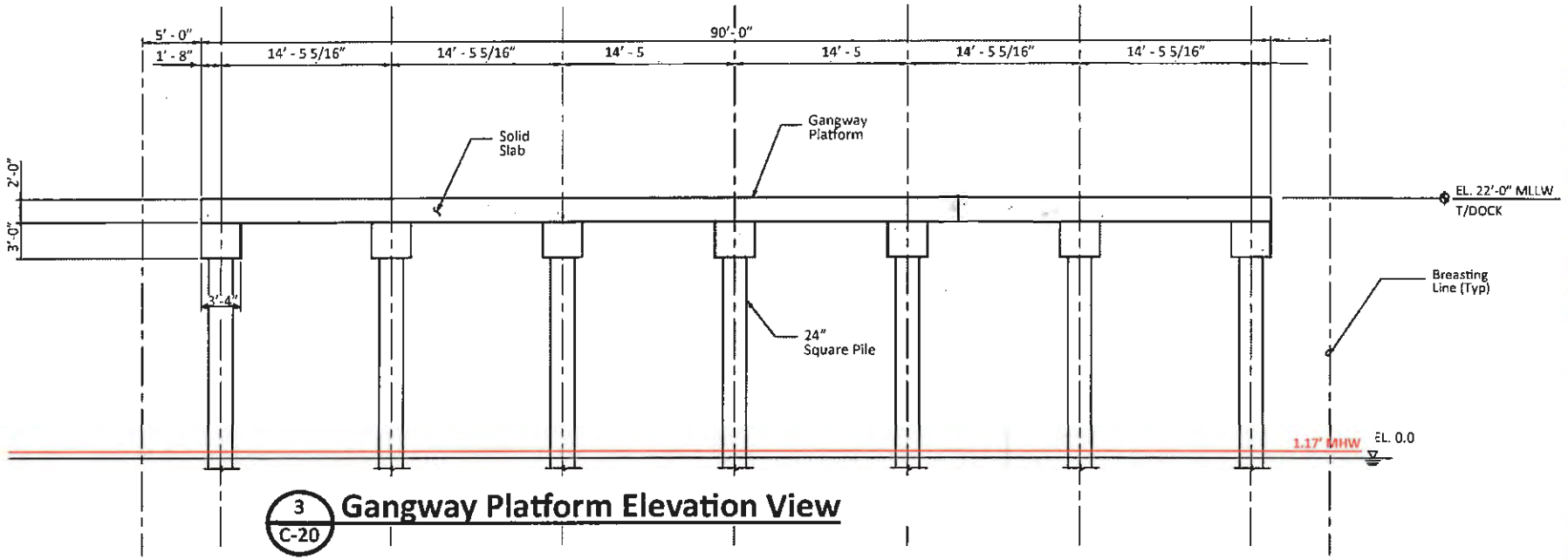
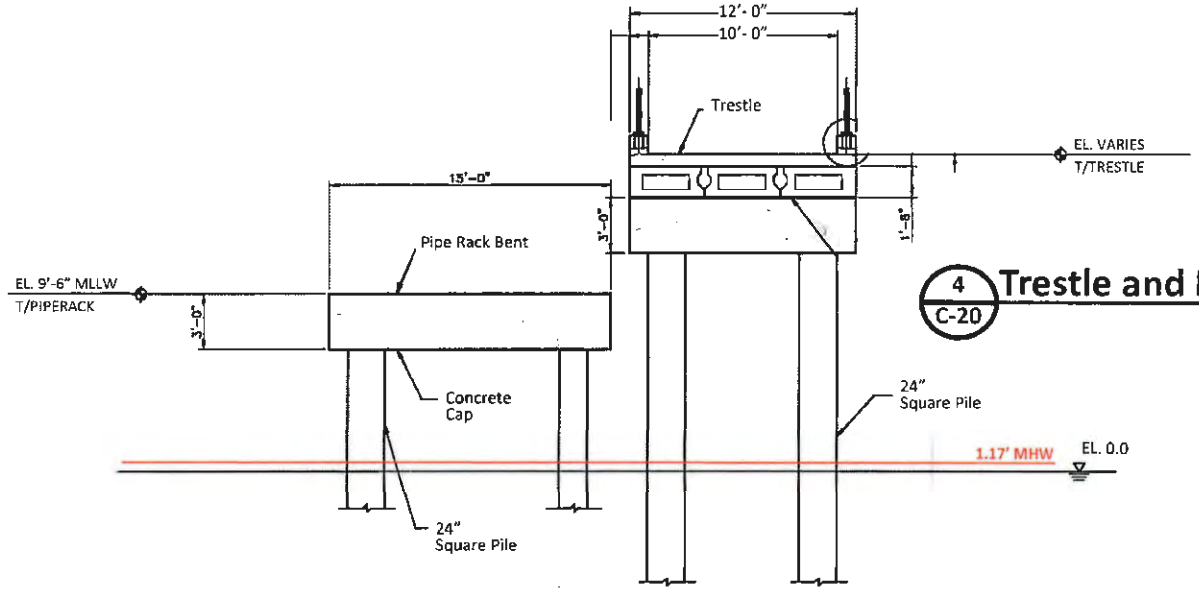
Exhibit C
Proposed Design

DOCK ELEVATIONS—DOCKS 1 & 2 (2 OF 2)



3 C-20 **Gangway Platform Elevation View**



4 C-20 **Trestle and Pipe Rack Elevation View**

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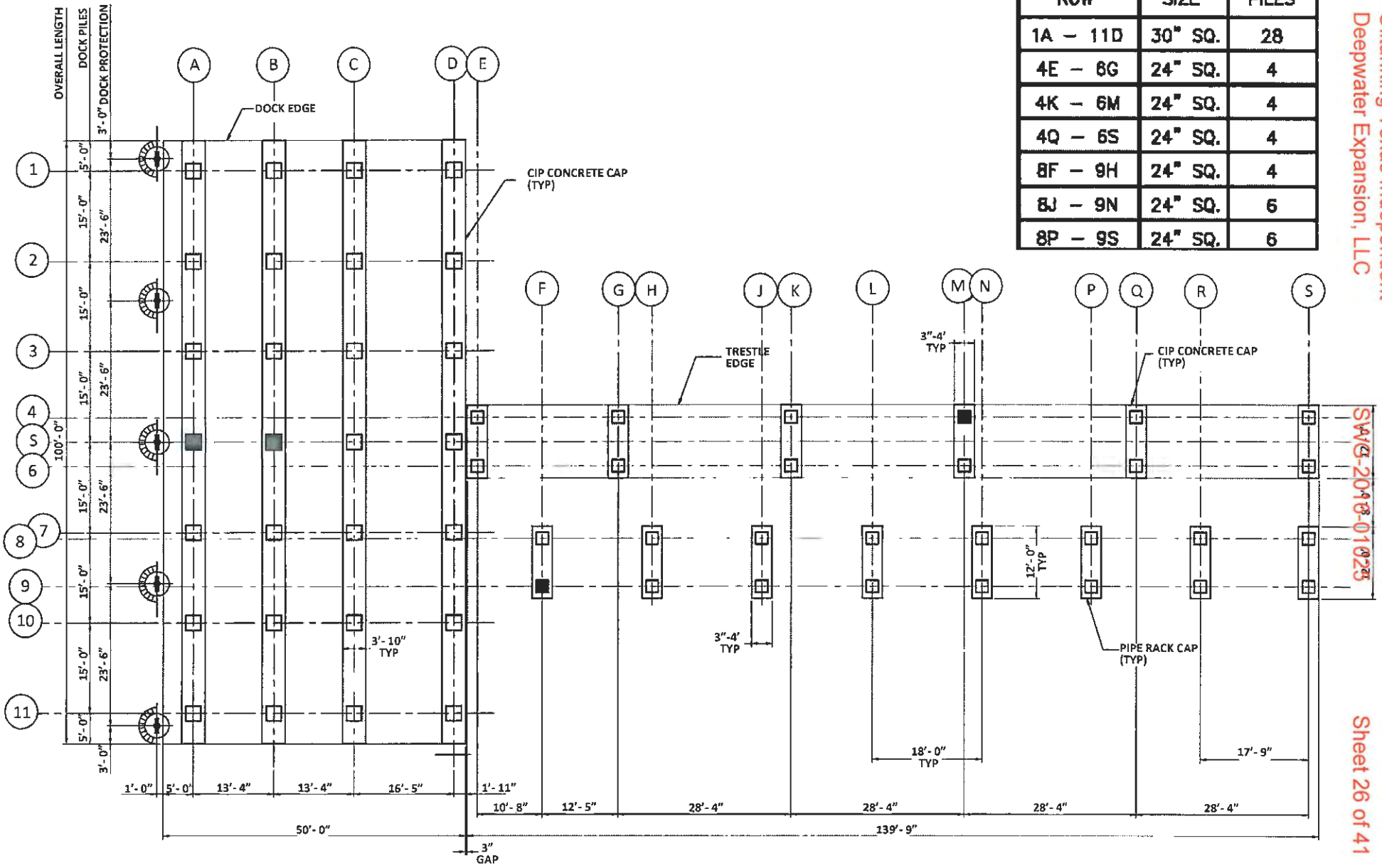
Exhibit C
Proposed Design

PILE AND BENT PLAN—DOCK 3

PILE ROW	PILE SIZE	NUMBER PILES
1A – 11D	30" SQ.	28
4E – 6G	24" SQ.	4
4K – 6M	24" SQ.	4
4Q – 6S	24" SQ.	4
8F – 9H	24" SQ.	4
8J – 9N	24" SQ.	6
8P – 9S	24" SQ.	6



DOCK ELEVATION—DOCK 3

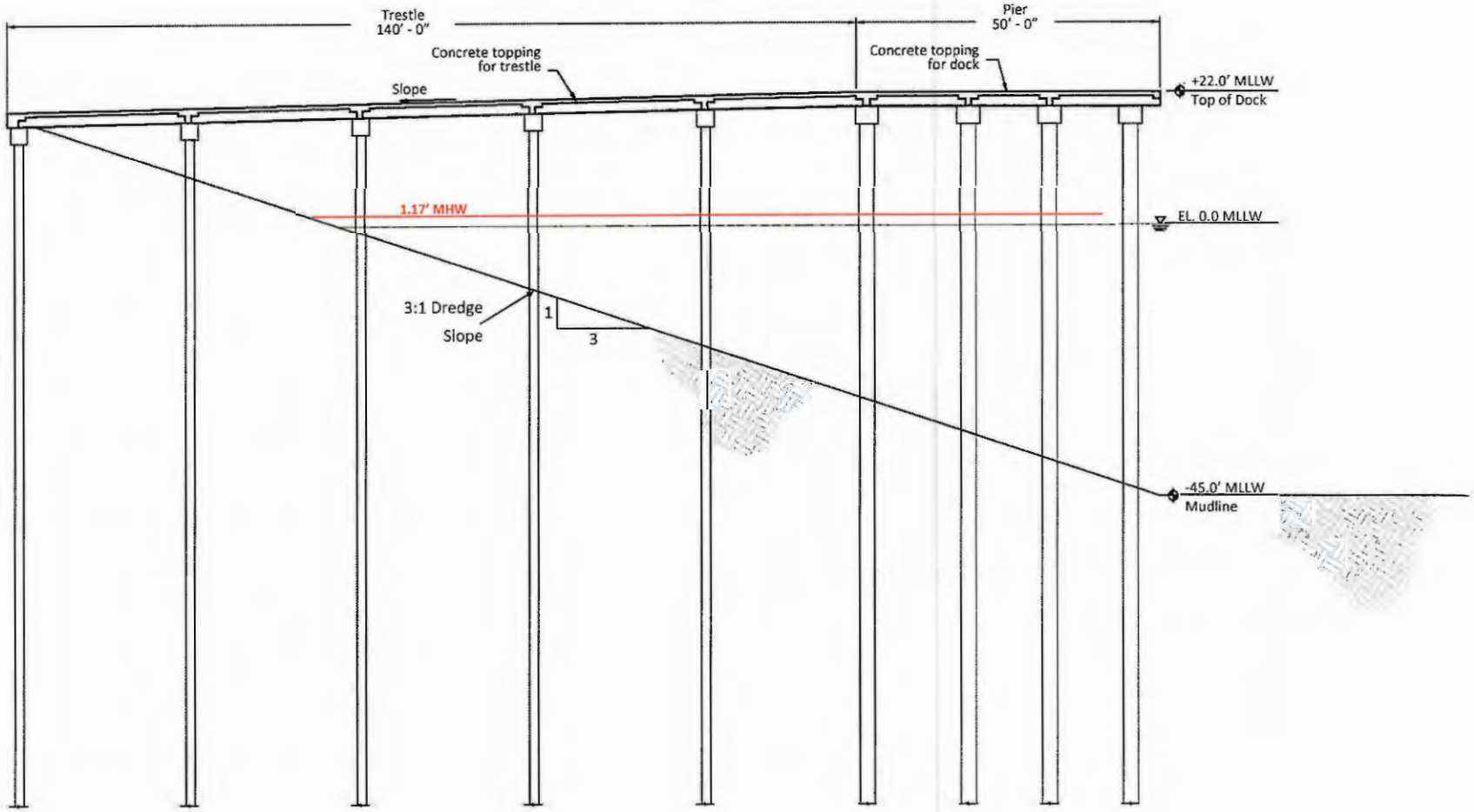


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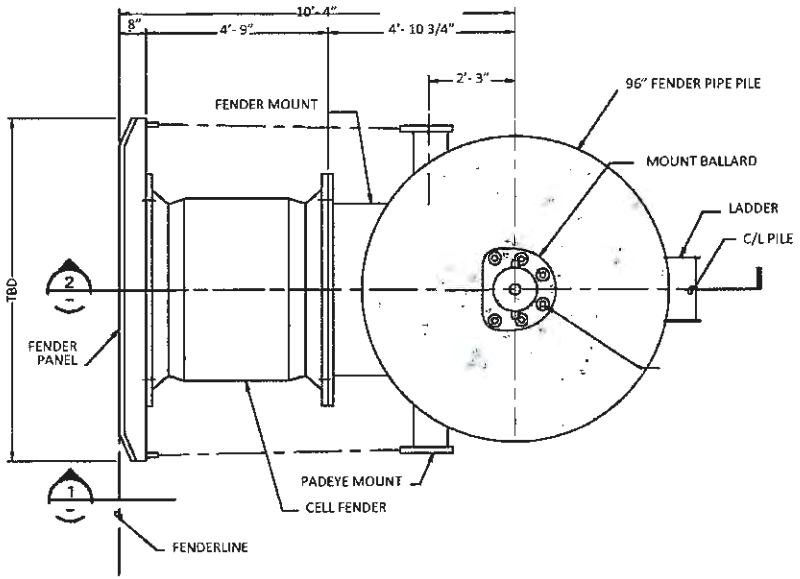
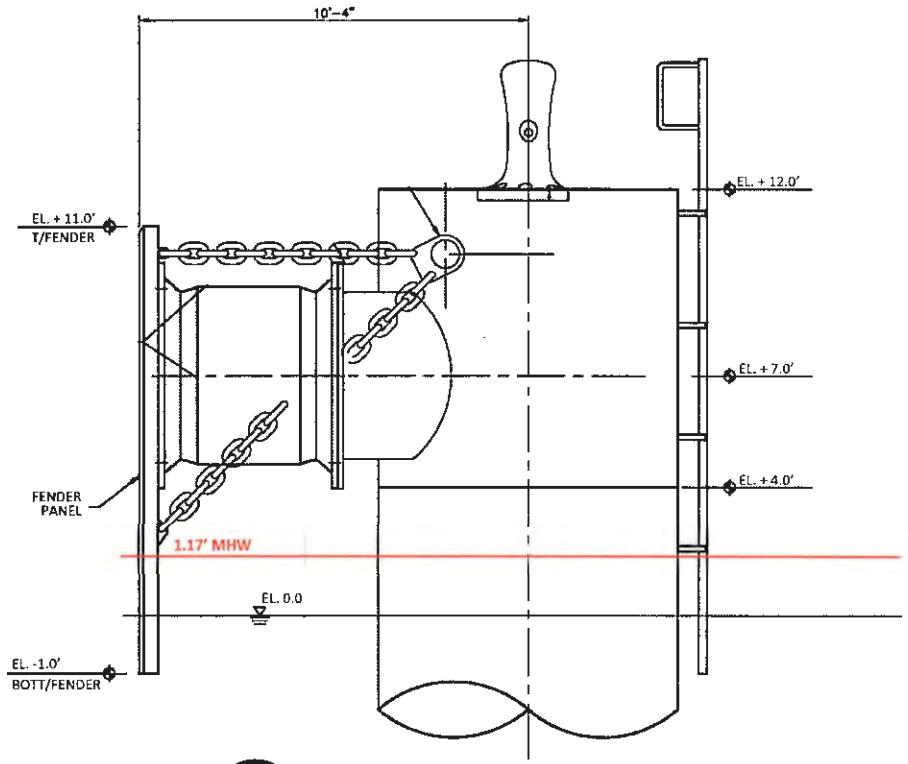
Exhibit C
Proposed Design

BREASTING DOLPHIN PLAN AND ELEVATION

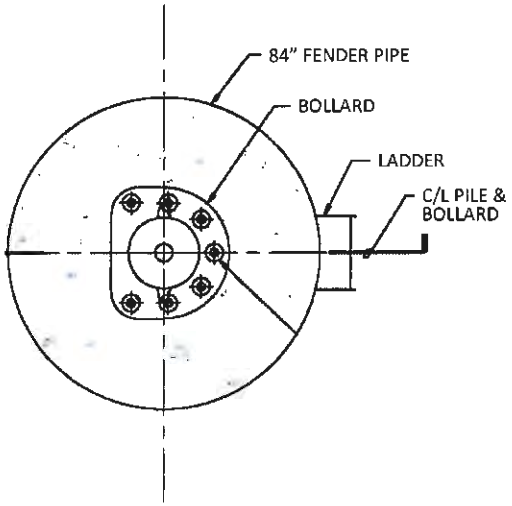


A C-17 BREASTING DOLPHIN PLAN

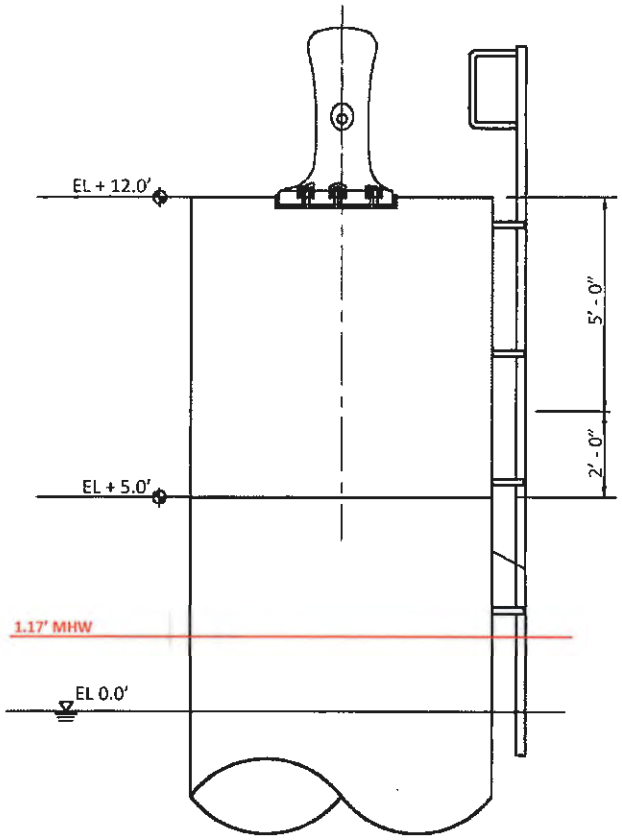


B C-17 BREASTING DOLPHIN ELEVATION

MOORING DOLPHIN PLAN AND ELEVATION



C / C-17 MOORING DOLPHIN PLAN



D / C-17 MOORING DOLPHIN ELEVATION

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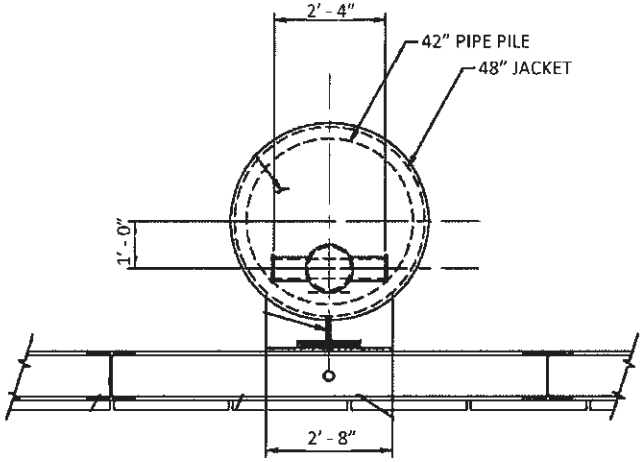
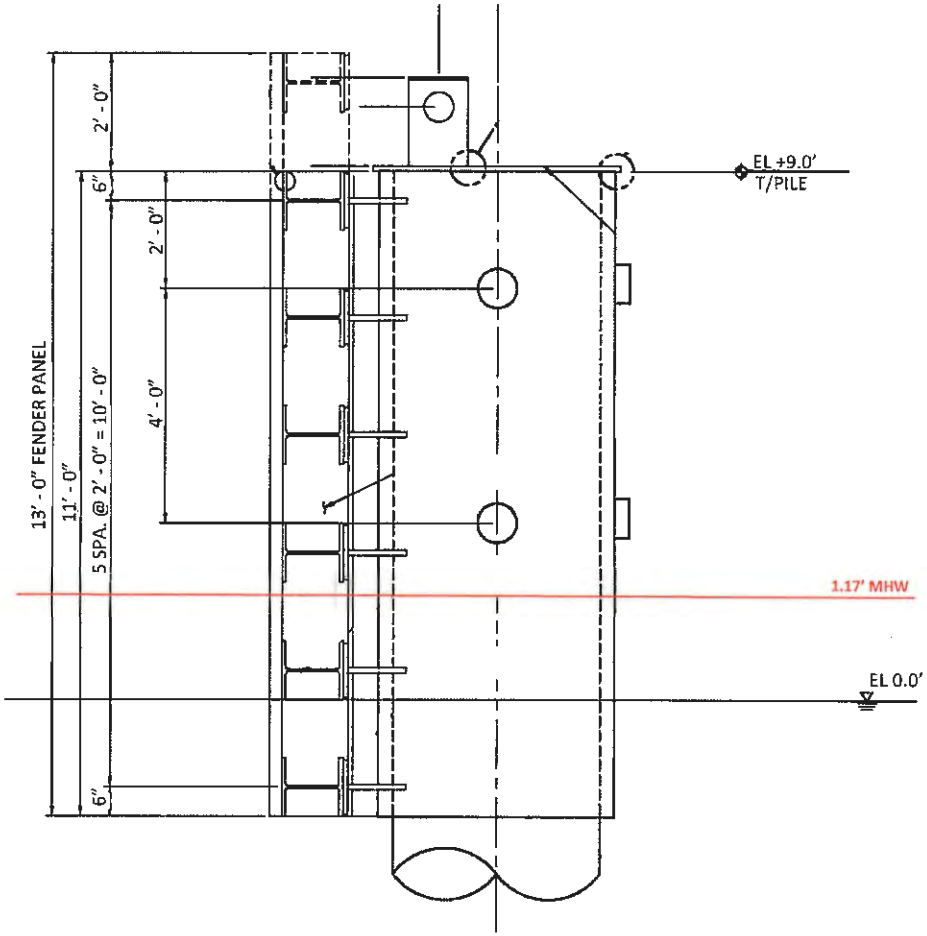
Exhibit C
Proposed Design

FENDER PILE PLAN AND ELEVATION—DOCKS 1 & 2

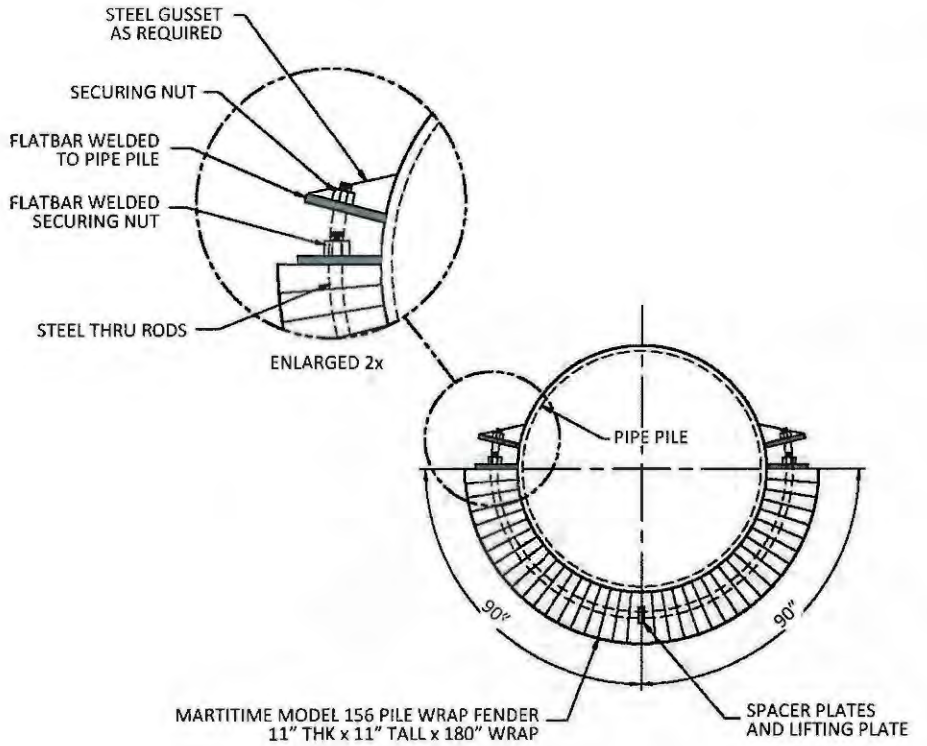


E / C-17 TYPICAL PLAN AT FENDER PILE

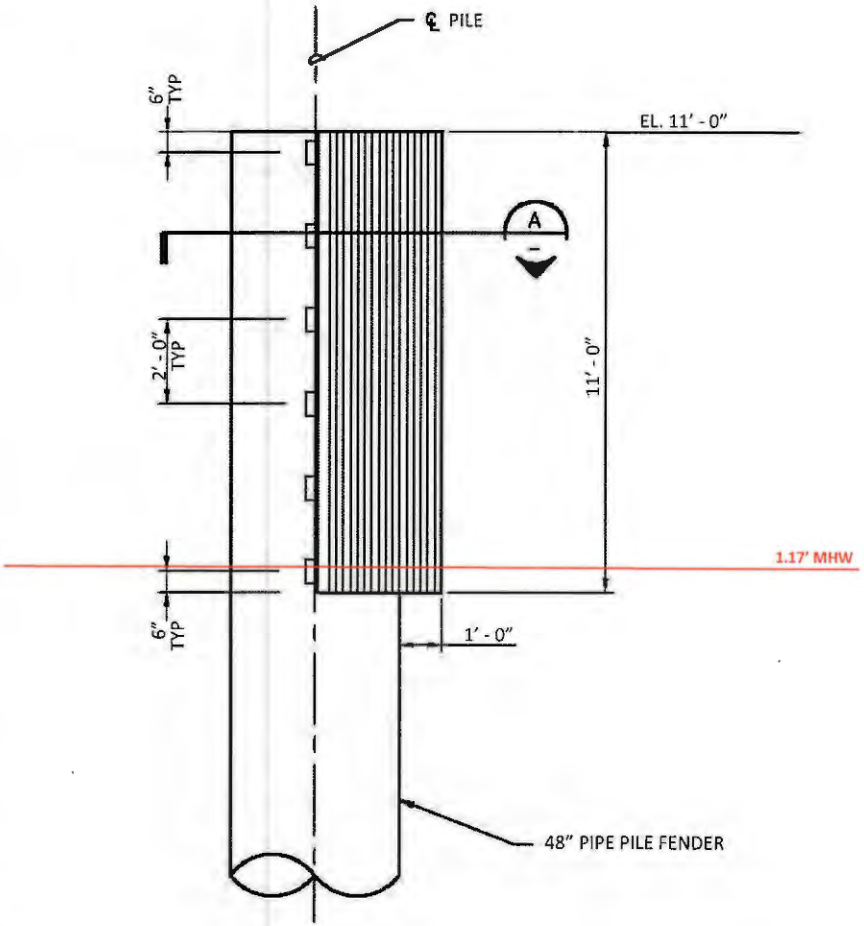


F / C-17 TYPICAL ELEVATION AT FENDER PILE

FENDER PILE PLAN AND ELEVATION—DOCK 3



A / C-18 FENDER WRAP SECTION/PLAN



B / C-18 FENDER WRAP ELEVATION
3/8"=1'-0"

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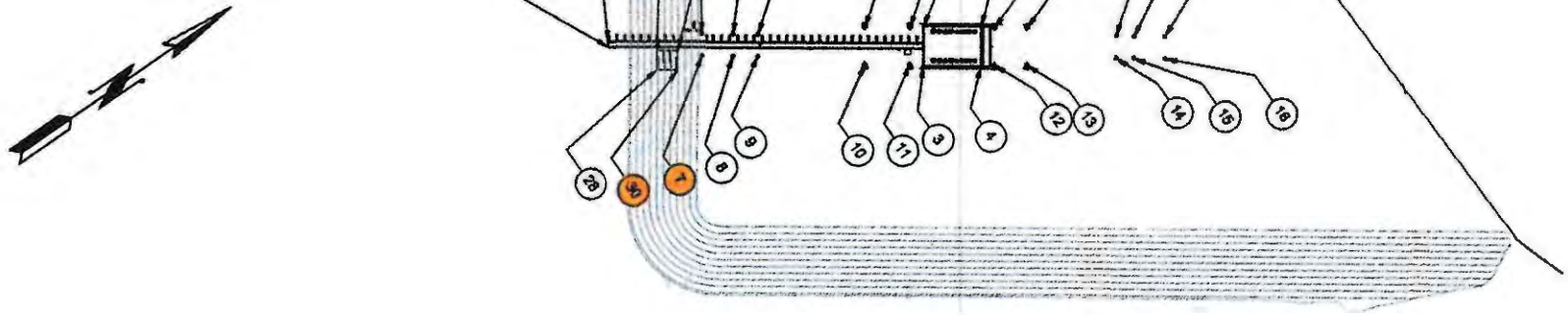
Exhibit C
Proposed Design

HORIZONTAL CONTROL SITE PLAN—Phase 1

COORDINATE TABLE											
POINT	NORTHING	EASTING	DESCRIPTION	POINT	NORTHING	EASTING	DESCRIPTION	POINT	NORTHING	EASTING	DESCRIPTION
1	13700883.9636	3275264.9576	SW CORNER OF TRESTLE	14	13701790.8864	3275937.8357	MOORING DOLPHIN 4	27	13700962.1483	3275343.9151	SW CORNER OF PLATFORM
2	13700877.0807	3275274.7874	SE CORNER OF TRESTLE	15	13701823.7715	3275960.8621	MOORING DOLPHIN 5	28	13700937.4845	3275379.1386	SE CORNER OF PLATFORM
3	13701428.1177	3275708.2378	SE CORNER OF DOCK	16	13701880.1740	3276000.3556	MOORING DOLPHIN 6	29	13700999.8293	3275370.2996	NW CORNER OF PLATFORM
4	13701532.9891	3275781.6556	NE CORNER OF DOCK	17	13701066.7845	3275369.7814	MOORING DOLPHIN 7	30	13700975.1655	3275405.5232	NE CORNER OF PLATFORM
5	13701479.7395	3275834.5141	SW CORNER OF DOCK	18	13701123.4050	3275409.4215	MOORING DOLPHIN 8	X 1244	13702426.8580	3267889.5560	NGS REFERENCE POINT
6	13701584.5910	3275707.9319	NW CORNER OF DOCK	19	13701168.5774	3275441.0515	MOORING DOLPHIN 9	CP1	13700046.7200	3273928.6600	SEE NOTE 3
7	13701038.0857	3275410.7190	MOORING DOLPHIN 1	20	13701371.2423	3275562.8162	BREASTING DOLPHIN 5	CP2	13701937.3200	3273904.2600	SEE NOTE 3
8	13701094.7262	3275450.3791	MOORING DOLPHIN 2	21	13701453.1575	3275620.1739	BREASTING DOLPHIN 6				
9	13701139.8986	3275482.0091	MOORING DOLPHIN 3	22	13701607.1580	3275728.0062	BREASTING DOLPHIN 7				
10	13701323.6354	3275630.8059	BREASTING DOLPHIN 1	23	13701666.1370	3275769.3037	BREASTING DOLPHIN 8				
11	13701405.5506	3275688.1635	BREASTING DOLPHIN 2	24	13701819.5652	3275896.8781	MOORING DOLPHIN 10				
12	13701559.5512	3275795.9959	BREASTING DOLPHIN 3	25	13701852.4503	3275919.9045	MOORING DOLPHIN 11				
13	13701618.5301	3275837.2934	BREASTING DOLPHIN 4	26	13701908.8528	3275959.3980	MOORING DOLPHIN 12				



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HORIZONTAL CONTROL SITE PLAN—Phases 2 & 3

COORDINATE TABLE

POINT	NORTHING	EASTING	DESCRIPTION	POINT	NORTHING	EASTING	DESCRIPTION	POINT	NORTHING	EASTING	DESCRIPTION
81	N 13701672.14	E 3273891.06	SE CORNER OF TRESTLE	89	N 13701788.29	E 3274211.34	MOORING DOLPHIN 4	X 1244	13702426.8560	3267869.5560	NGS REFERENCE POINT
82	N 13701671.74	E 3273879.07	SW CORNER OF TRESTLE	90	N 13701864.70	E 3274058.68	BREASTING DOLPHIN 4	CP1	13700046.7200	3273928.6600	SEE NOTE 3
83	N 13701813.54	E 3273930.33	SE CORNER OF DOCK	91	N 13701861.34	E 3273958.74	BREASTING DOLPHIN 3	CP2	13701937.3200	3273904.2600	SEE NOTE 3
84	N 13701810.18	E 3273830.39	SW CORNER OF DOCK	92	N 13701855.96	E 3273788.83	BREASTING DOLPHIN 2	50	13700847.95	3274431.36	PH2–SE CORNER OF TRESTLE
85	N 13701863.51	E 3273928.65	NE CORNER OF DOCK	93	N 13701852.60	E 3273698.89	BREASTING DOLPHIN 1	51	13700854.83	3274421.53	PH2–SW CORNER OF TRESTLE
86	N 13701860.15	E 3273828.71	NW CORNER OF DOCK	94	N 13701766.11	E 3273551.71	MOORING DOLPHIN 3	52	13701450.81	3274791.23	PH2–SW CORNER OF DOCK
87	N 13701861.32	E 3274449.02	MOORING DOLPHIN 6	95	N 13701761.40	E 3273411.79	MOORING DOLPHIN 2	53	13701555.66	3274864.65	PH2–NW CORNER OF DOCK
88	N 13701792.99	E 3274351.26	MOORING DOLPHIN 5	96	N 13701623.00	E 3273309.66	MOORING DOLPHIN 1	54	13701504.04	3274938.37	PH2–NE CORNER OF DOCK
								55	13701399.19	3274864.95	PH2–SE CORNER OF DOCK

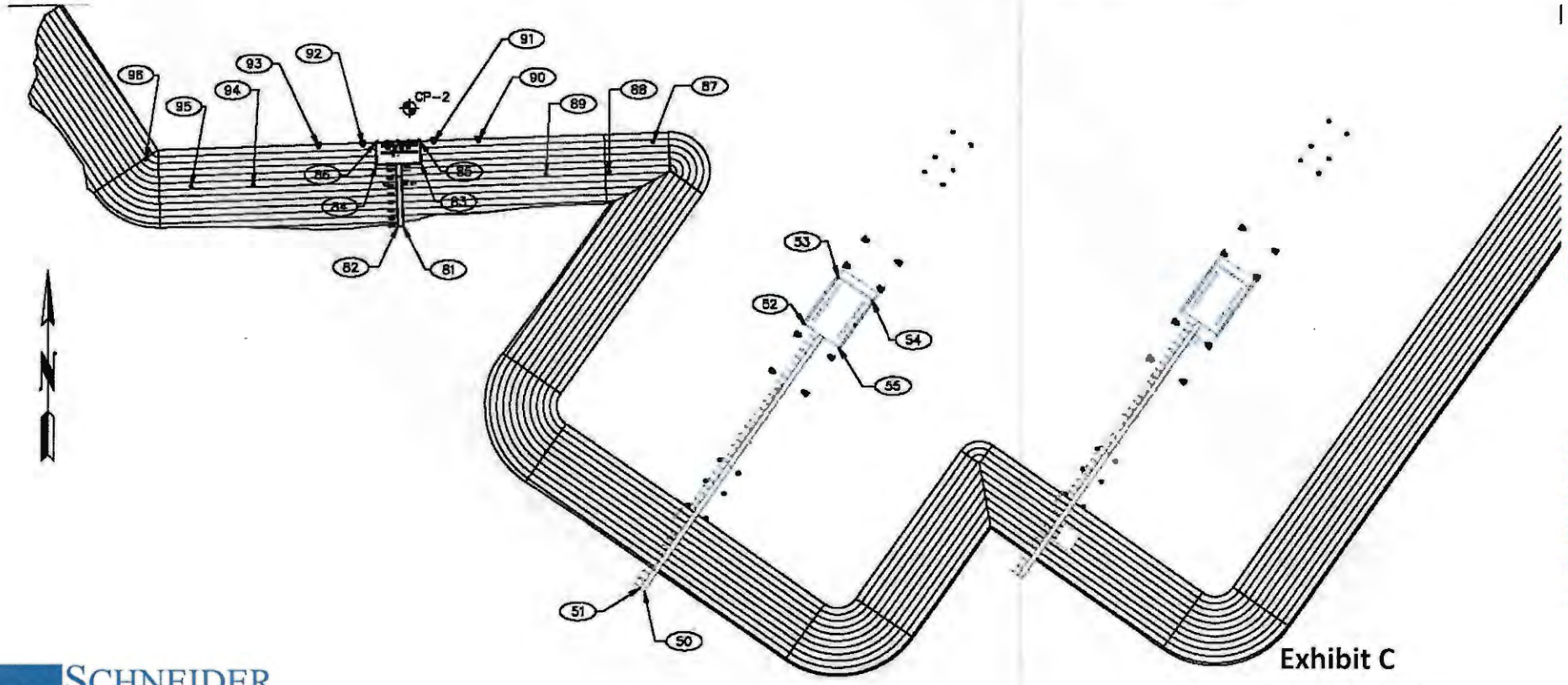

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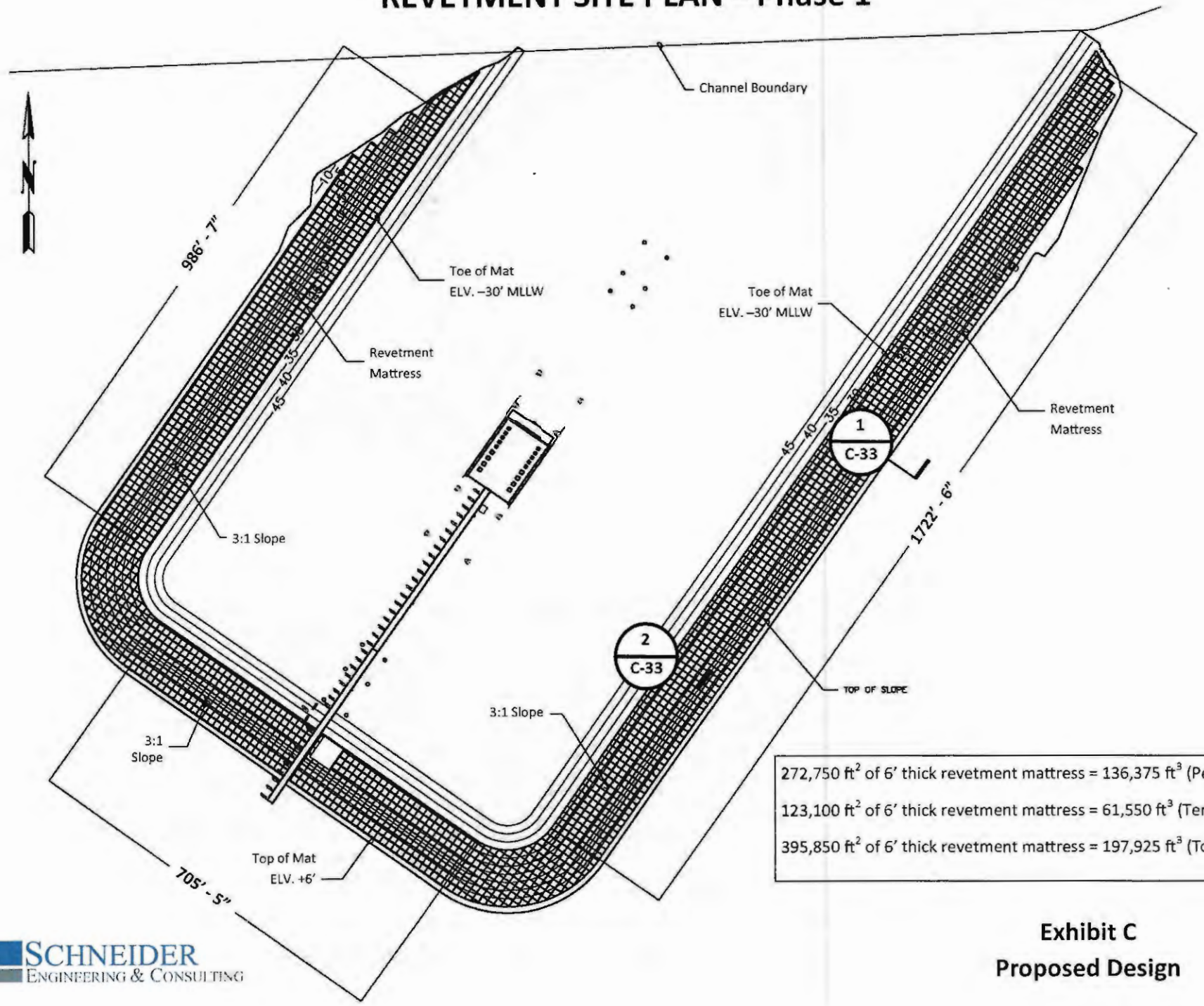
Exhibit C

Proposed Design

REVETMENT SITE PLAN—Phase 1



272,750 ft^2 of 6' thick revetment mattress = 136,375 ft^3 (Permanent)

123,100 ft^2 of 6' thick revetment mattress = 61,550 ft^3 (Temporary)

395,850 ft^2 of 6' thick revetment mattress = 197,925 ft^3 (Total)

Exhibit C

Proposed Design

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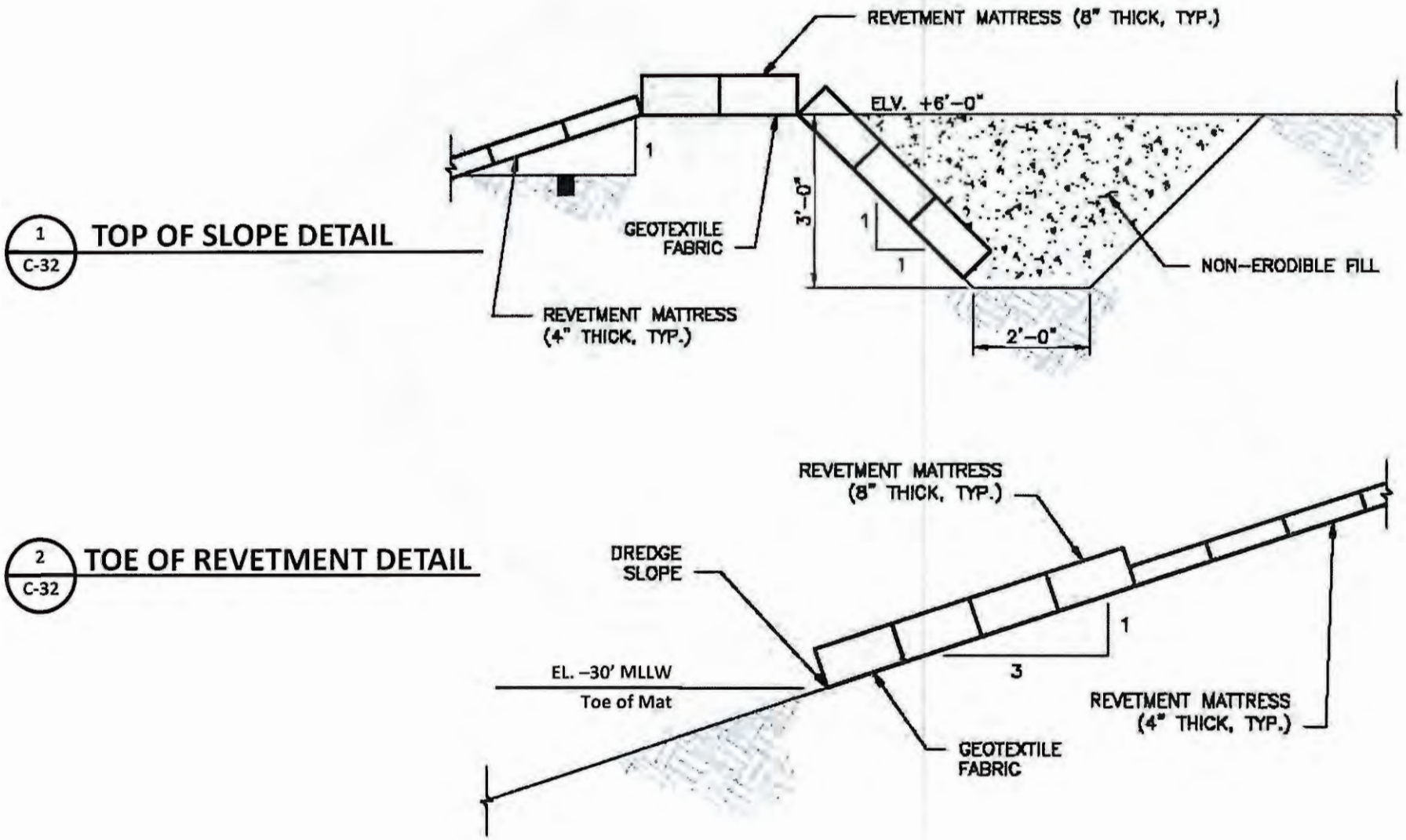
REVETMENT DETAILS—Phase 1



REVETMENT SITE PLAN—Phase 2

213,190 ft^2 of 6' thick revetment mattress = 106,595 ft^3 (Permanent)

46,410 ft^2 of 6' thick revetment mattress = 23,205 ft^3 (Temporary)

259,600 ft^2 of 6' thick revetment mattress = 129,800 ft^3 (Total)

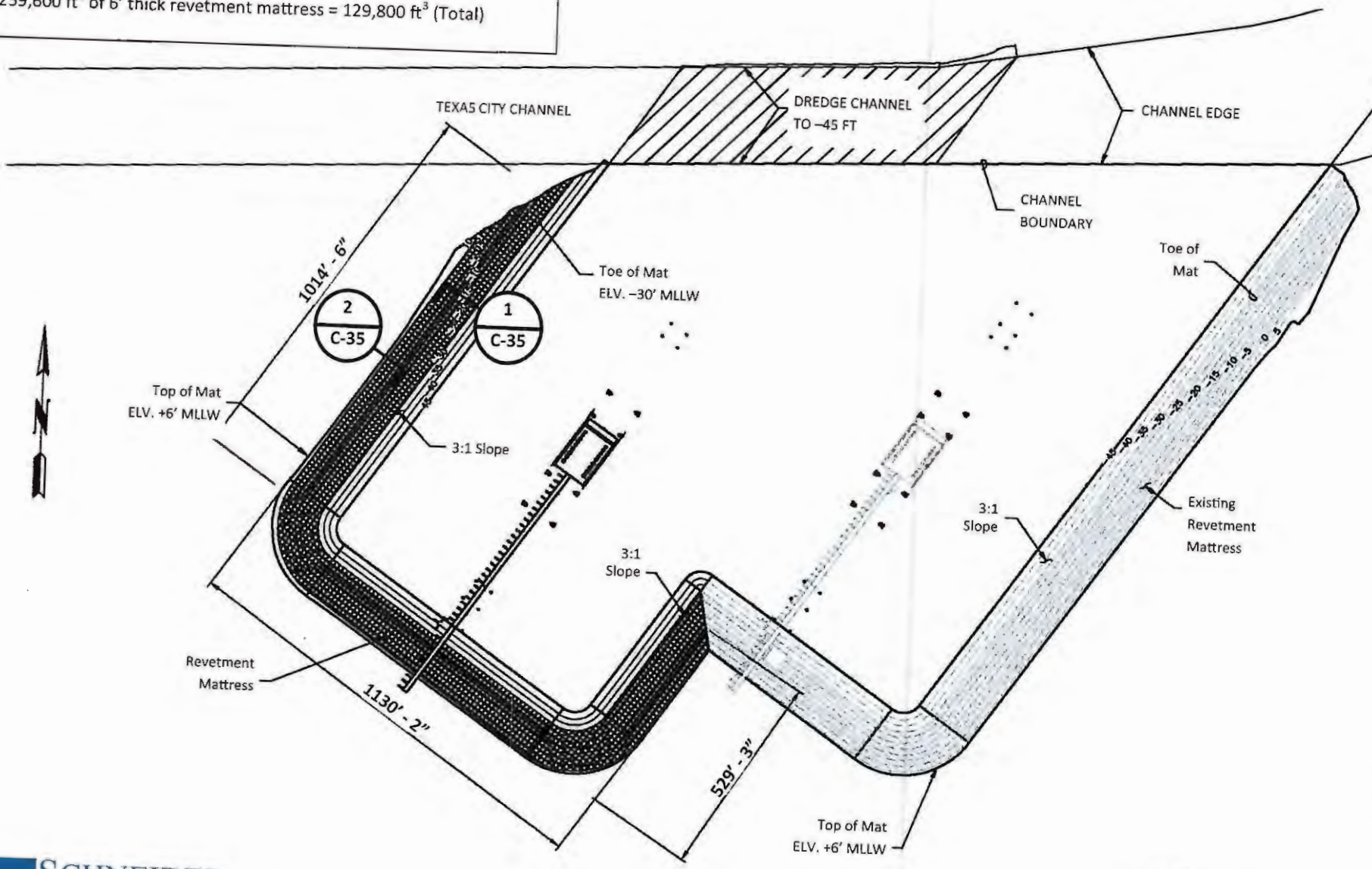


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Exhibit C
Proposed Design

Oiltanking Texas Independent Deepwater Expansion, LLC

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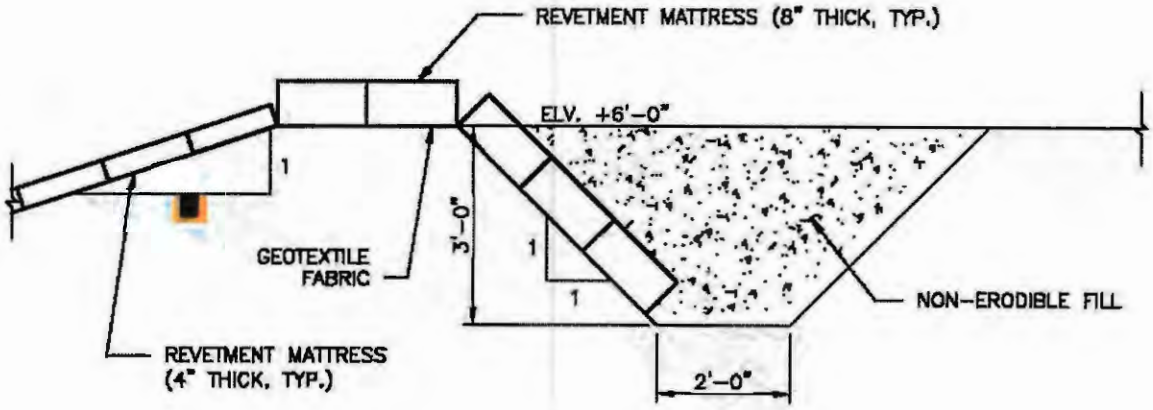
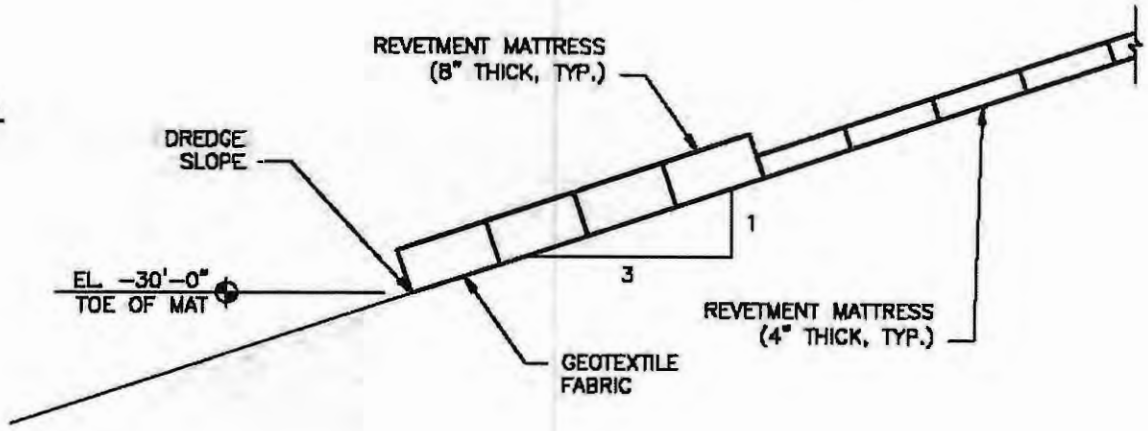
REVETMENT DETAILS—Phase 2

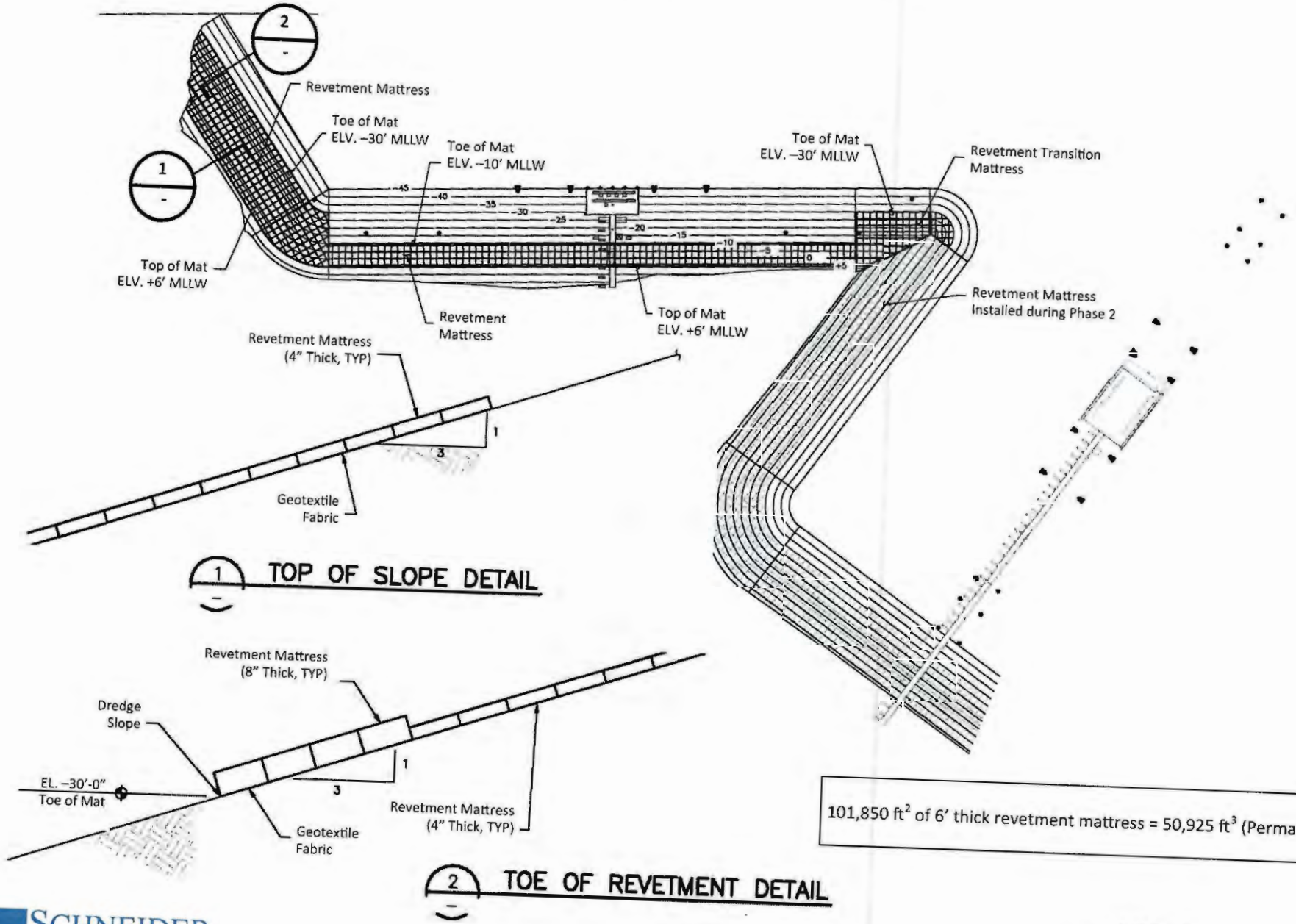
1 / C-34 **TOP OF SLOPE DETAIL**



2 / C-34 **TOE OF REVETMENT DETAIL**



REVETMENT SITE PLAN—Phase 3



101,850 ft^2 of 6' thick revetment mattress = 50,925 ft^3 (Permanent)

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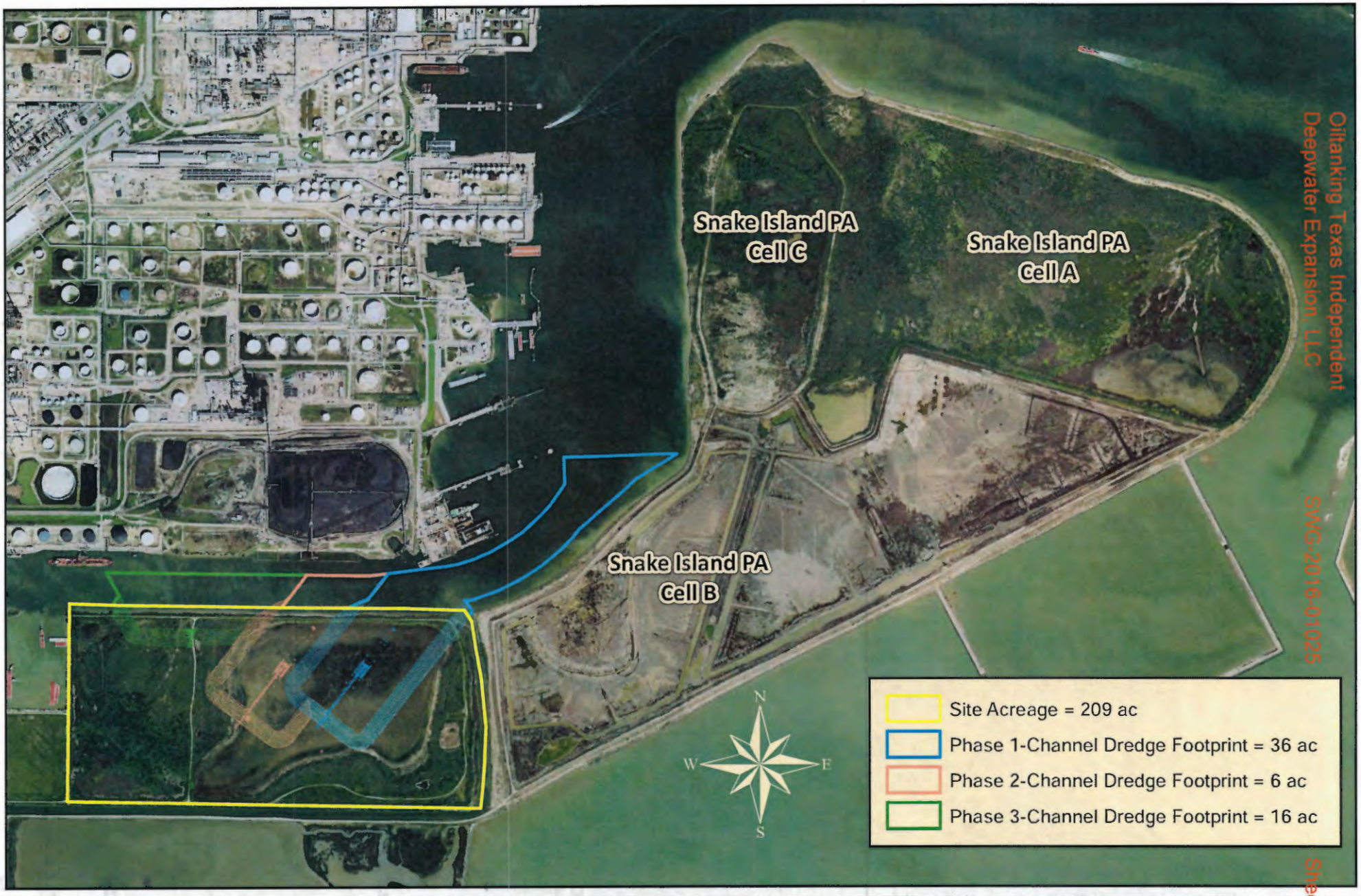
Exhibit C
Proposed Design



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SWG-2016-01025

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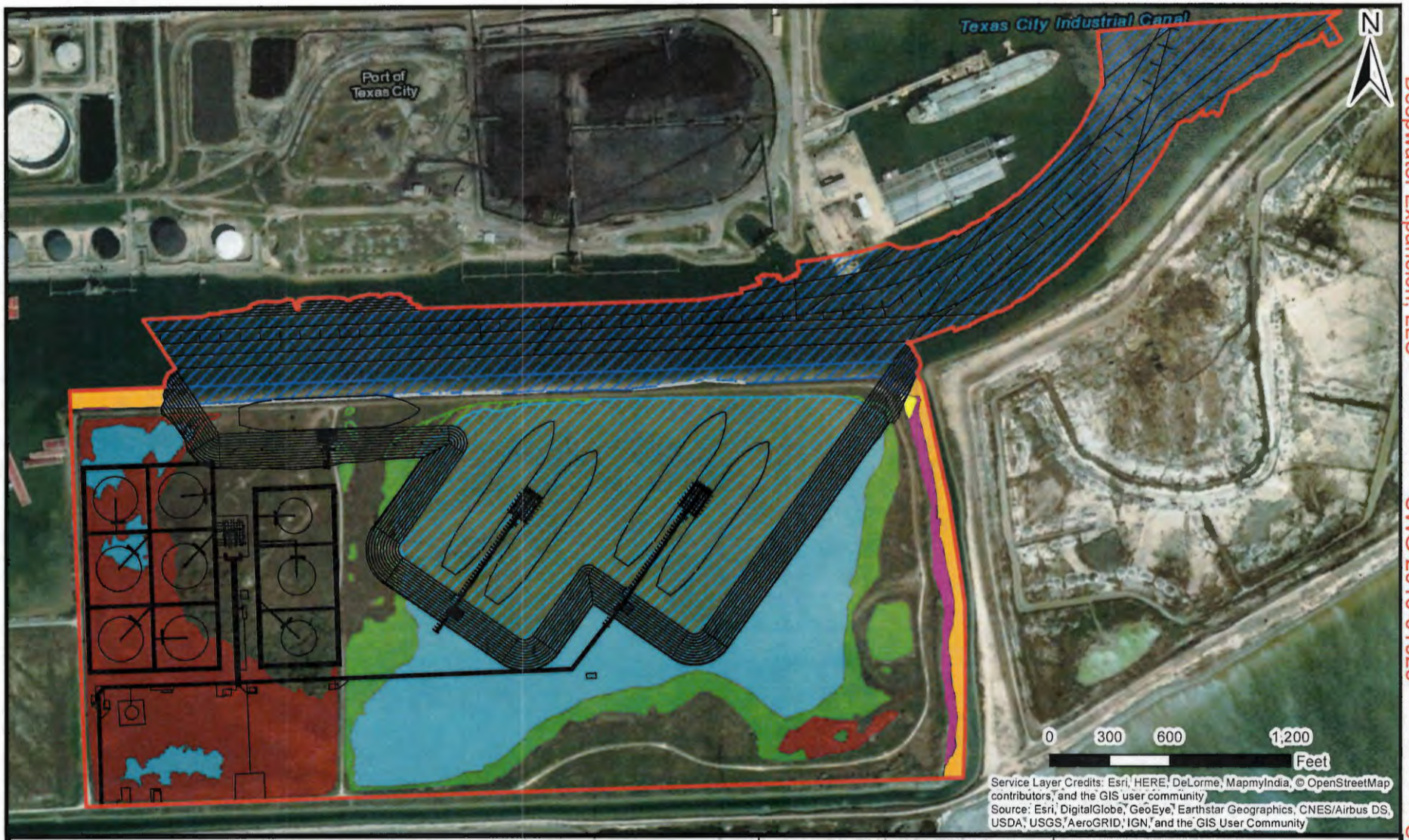
Exhibit D	**Oiltanking Texas Independent Deepwater Expansion, LLC SWG-2016-01025 Galveston County, TX**	SCHNEIDER ENGINEERING & CONSULTING
Proposed Project Footprint		Date: May 15, 2018



Oiltanking Texas Independent Deepwater Expansion, LLC

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Legend

- Project Boundary
- Site Plan

Filled Impacts

- Other Waters (32.23 AC)
- PEM Wetlands (14.40 AC)
- PSS Wetlands (29.74 AC)

Dredged Impacts

- Other Waters (55.31 AC)
- PEM Wetlands (2.59 AC)
- PSS Wetlands (0.34 AC)
- Section 10 EEM Wetlands (0.48 AC)
- Section 10 Waters (65.60 AC)
- Section 404 EEM Wetlands (0.02 AC)

Avoided Features

- Section 10 EEM Wetlands (1.87 AC)
- Section 10 Waters (3.83 AC)
- Section 404 EEM Wetlands (0.12 AC)

OILTANKING TEXAS INDEPENDENT DEEPWATER, LLC AQUATIC FEATURES IMPACT MAP WITH SITE PLAN OVERLAY GALVESTON COUNTY, TX

SPIRIT ENVIRONMENTAL
20465 State Highway 249, Suite 300
Houston, TX 77070

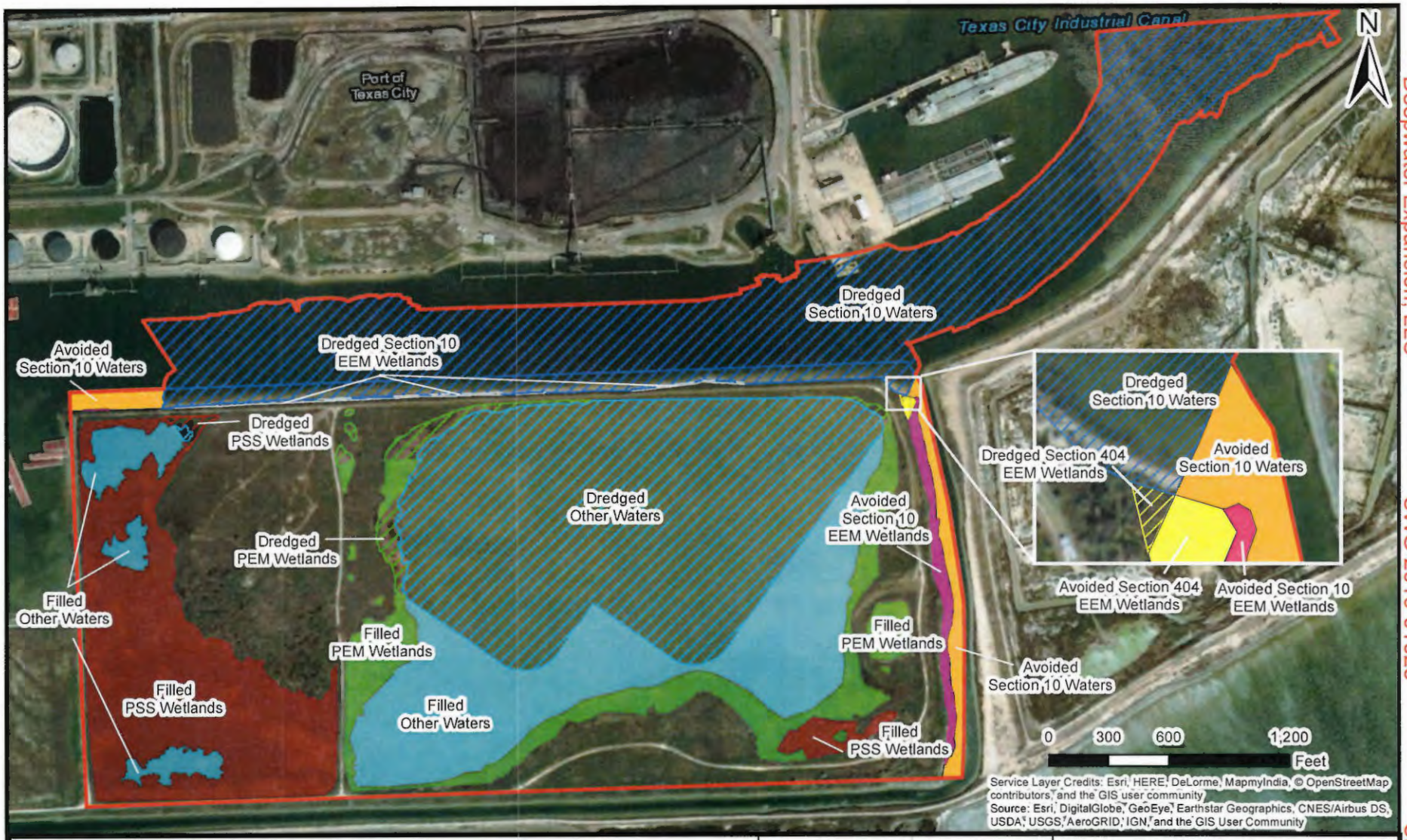
Drawing No.: 2

Date: 2/20/2018

Project No.: 16470.00

Drawn By: JPrescott

Note: This is not a Property Boundary Survey



Legend

- Project Boundary

Filled Impacts

- Other Waters (32.23 AC)
- PEM Wetlands (14.40 AC)
- PSS Wetlands (29.74 AC)

Dredged Impacts

- Other Waters (55.31 AC)
- PEM Wetlands (2.59 AC)
- PSS Wetlands (0.34 AC)
- Section 10 EEM Wetlands (0.48 AC)
- Section 10 Waters (65.60 AC)
- Section 404 EEM Wetlands (0.02 AC)

Avoided Features

- Section 10 EEM Wetlands (1.87 AC)
- Section 10 Waters (3.83 AC)
- Section 404 EEM Wetlands (0.12 AC)

OILTANKING TEXAS INDEPENDENT DEEPWATER, LLC AQUATIC FEATURES IMPACT MAP GALVESTON COUNTY, TX

SPIRIT ENVIRONMENTAL
20465 State Highway 249, Suite 300
Houston, TX 77070

Drawing No.:	1
Date:	2/20/2018
Project No.:	16470.00
Drawn By:	JPrescott
Note:	This is not a Property Boundary Survey

Oiltanking Texas Independent Deepwater Expansion, LLC

SWG-2016-01025