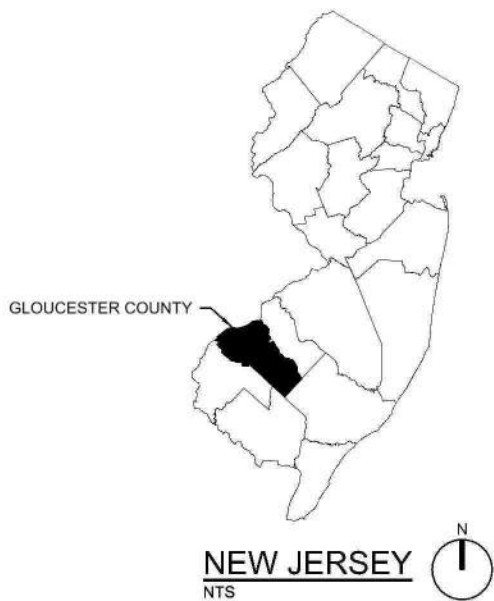
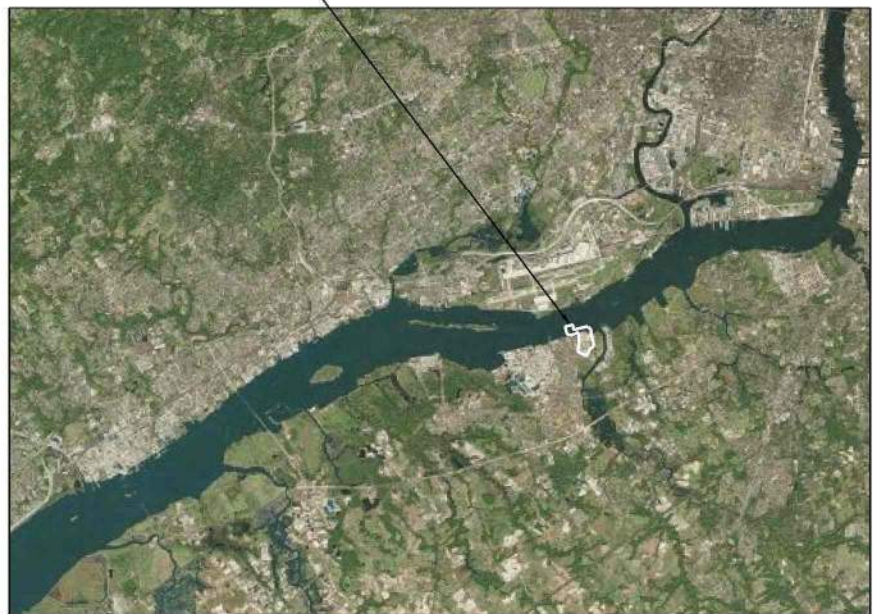


PAULSBORO DOWNRIVER RORO BERTH DREDGING ØRSTED

PAULSBORO, NEW JERSEY



PROJECT LOCATION
PAULSBORO, NEW JERSEY



VICINITY MAP

INDEX TO DRAWINGS

SHEET NO.	DRAWING NO.	DESCRIPTION
GENERAL		
1	G-001	TITLE SHEET, VICINITY / LOCATION MAPS, AND INDEX TO DRAWINGS
2	G-002	GENERAL SITE NOTES AND CIVIL LEGEND
CIVIL		
3	C-2001	SITE OVERVIEW
4	C-2101	EXISTING BATHYMETRY PLAN
5	C-2201	DREDGING PLAN
6	C-2202	DREDGED MATERIAL MANAGEMENT PLAN
7	C-2203	DREDGED MATERIAL PLACEMENT PLAN
8	C-3001	DREDGE CROSS SECTIONS
9	C-5001	DETAILS



LOCATION MAP

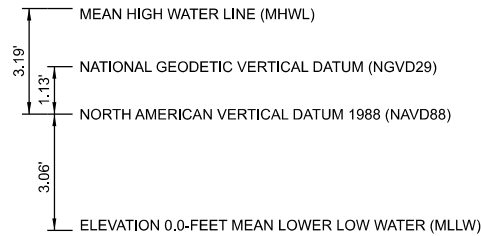
Drawn by N. LINDHOLM	Accepted T. LAMBERT	Approved
Scale NO SCALE	Size ANSI B	Orsted Document No. 07020007
Supplier JACOBS	Supplier Document No. & Rev.	
Ørsted Jacobs		
Hastingsvej 53 · 7000 Fredericia · Denmark Tel: +45 9955 1111 www.orsted.dk		
TITLE SHEET, VICINITY / LOCATION MAPS, AND INDEX TO DRAWINGS		
Rev 1	Date 6/26/2021	SSR TCL
Rev 2	Date 6/26/2021	SSR TCL
Rev 3	Date 6/26/2021	SSR TCL
Rev 4	Date 6/26/2021	SSR TCL
Rev 5	Date 6/26/2021	SSR TCL
Rev 6	Date 6/26/2021	SSR TCL
Rev 7	Date 6/26/2021	SSR TCL
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Rev 270	Date 6/26/202	

GENERAL SITE NOTES:

1. AERIAL IMAGERY SHOWN ON PLANS IS MICROSOFT BING MAPS.
2. EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION CONTROL DEVICES DURING CONSTRUCTION.

SURVEY NOTES:

1. HORIZONTAL DATUM: NEW JERSEY STATE PLANE, NAD83, US SURVEY FEET.
2. VERTICAL DATUM: MEAN LOWER LOW WATER DATUM (MLLW), WHICH IS 3.06-FEET BELOW NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).



3. BATHYMETRIC CONTOURS DEPICTED ON PLANS ARE EXPRESSED IN MEAN LOWER LOW WATER DATUM (MLLW) AND REPRESENT THE GENERAL CONDITIONS EXISTING AT THE TIME OF THE BATHYMETRIC SURVEY. BATHYMETRIC SURVEY WAS PERFORMED BY GAHAGAN & BRYANT ASSOCIATES, INC (GBA) ON AUGUST 17, 2020 USING A RESON 7125 150° (200khz) ECHO SOUNDER, POSMV 320 DPGS HORIZONTAL POSITIONING SYSTEM, AND LEICA GS18 RTK GPS RECEIVING LEICA SMARTNET CORRECTIONS FOR REAL TIME TIDAL CORRECTIONS.
4. PLANIMETRIC AND TOPOGRAPHIC FEATURES SHOWN BASED UPON PHOTOGRAMMETRY FROM FLIGHT DATE JULY 2, 2020 AND SUPPLEMENTED WITH ACTUAL FIELD SURVEY BY TRISTATE ENGINEERING & LAND SURVEYING, PC IN JULY 2020. CONTOURS IN WOODED AREA MAY NOT CONFORM TO NATIONAL MAP ACCURACY STANDARDS.
5. TOPOGRAPHIC INFORMATION TAKEN FROM PLAN ENTITLED " TOPOGRAPHIC SURVEY, ORSTED PAULSBORO STORAGE, BLOCKS 1; 1.07; LOTS 1, 2, 4, 5, 8, 18, 19, 20, 21, 22, 24 & 25; 20, 21, 23, 24 & 26; 45, PREPARED BY TRISTATE ENGINEERING AND SURVEYING, PC, PROJECT NO. 20 - 179, DATED 8/7 /20, UNREVISED.
6. PROPERTY LINES , BOUNDARIES, AND BEARINGS & DISTANCES SHOWN HEREON, ARE REFERENCED TO THE OFFICIAL TAX MAP(S) OF PAULSBORO BOROUGH, AND CAD/PDF FILES (PLANS UNDATED/UNTITLED) DETAILING THE LOT/BLOCK FOR THE PAULSBORO MARINE TERMINAL PROPERTY/ BOUNDARIES AND BEARINGS & DISTANCES FOR THE SAME, FROM APPARENT DEED PLOTTINGS. THIS INFORMATION IS PRESUMED TO BE VALID FOR THE PAULSBORO MARINE TERMINAL PERMITTING AND DESIGN PURPOSES, HOWEVER THIS PLAN SHOULD NOT BE CONSTRUED AS A PLAN OF SURVEY FOR ALL OR ANY PORTION OF THE PROPERTY(IES) SHOWN HEREON. A BOUNDARY/ TITLE SURVEY HAS NOT BEEN PERFORMED.

GENERAL YARD PIPING AND UTILITIES NOTES:

1. PROTECT EXISTING UTILITIES AND OTHER SITE FEATURES DURING CONSTRUCTION.
2. EXISTING PIPING AND EQUIPMENT ARE SHOWN SCREENED AND/OR LIGHT-LINED.
3. FOR SURFACE RESTORATION INCLUDING GRAVEL ROADS, SEE CIVIL DETAIL DRAWINGS.






FIELD OFFICE NOTES:


1. SUBCONTRACTOR TO PROVIDE FIELD OFFICE TRAILER AND TEMPORARY POWER FOR OWN USE.
2. PROVIDE SANITARY FACILITIES INCLUDING HAND WASHING STATION IN COMPLIANCE WITH STATE AND LOCAL HEALTH AUTHORITIES AND PROJECT HEALTH AND SAFETY PLAN.

CIVIL LEGEND

EXISTING	THIS CONTRACT	
		SPOT ELEVATION
		CONTOUR LINE
CB OR	OR	CATCH BASIN OR INLET
		TRENCH DRAIN
		SIGN
MH	OR	MANHOLE
	E	ELECTRICAL MANHOLE
		ELECTRIC HANDHOLE
		POST OR GUARD POST
		GUY ANCHOR
		FIRE HYDRANT
		GATE VALVE
		UTILITY POLE
		LIGHT POLE
		BENCH MARK
		SURVEY CONTROL POINT OR POINT OF INTERSECTION
		BRUSH/TREE LINE
		TREE
		WATER FEATURE
		PROPERTY LINE
		CENTER LINE
		LIMITS OF DISTURBANCE
OR	OR	STRUCTURE, BUILDING OR FACILITY
		GRAVEL SURFACING
		ASPHALT CONCRETE PAVEMENT
		CONCRETE PAVEMENT
		DOUBLE SWING GATE
		CHAIN LINK FENCE
		CULVERT
		TRUCK ROUTE

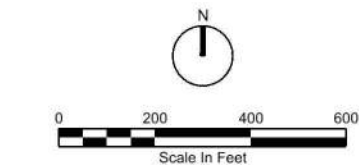
EROSION CONTROL LEGEND

<u>COVER PRACTICES</u>	<u>SYMBOL</u>
CONSTRUCTION ENTRANCE	
OUTLET PROTECTION / RIPRAP	
FILTER FENCE	
STRAW BALE BARRIER (BIOFILTER)	
SILT SOCK	


Drawn by N. LINDBOLM		Accepted T. LAMBERT		Approved	
Scale NO SCALE		Size ANSI B		Orsted Document No. 07020007	
Supplier JACOBS				Supplier Document No. & Rev.	
 <div style="text-align: right;"> Headquarters in: Kraftværksvej 53 • 7000 Frederiksberg • Denmark Tel. +45 9555 1111 www.orsted.dk </div>					
<h1>GENERAL SITE NOTES AND CIVIL LEGEND</h1>					
RDS-PP code G-0002				DRAFT	
				Rev.	



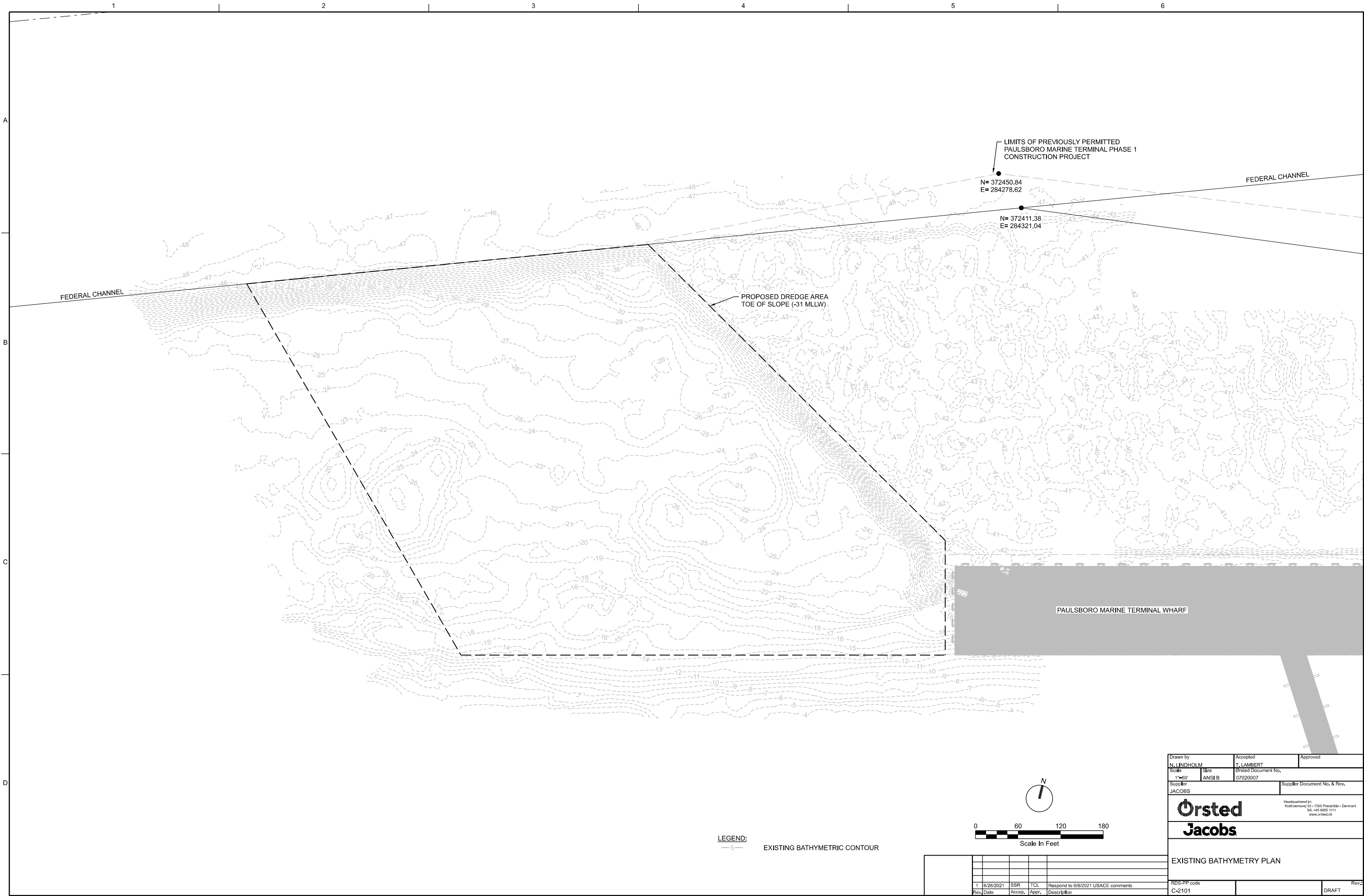
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1	8/26/2021	SSR	TCL	Respond to 6/8/2021 USACE comments	
Rev	Date	Accp	Appr	Description	

Drawn by N. LINDHOLM		Accepted T. LAMBERT	Approved
Scale 1"=200'	Size ANSI B	Orsted Document No. 07020007	
Supplier JACOBS		Supplier Document No. & Rev.	
		Headquartered in: Kraftværkvej 53 - 7000 Fredericia - Denmark Tel: +45 9955 1111 www.orsted.dk	
SITE OVERVIEW			
RDS-PP code C-2001			Rev. DRAFT

AERIAL IMAGERY SOURCE: Google Earth



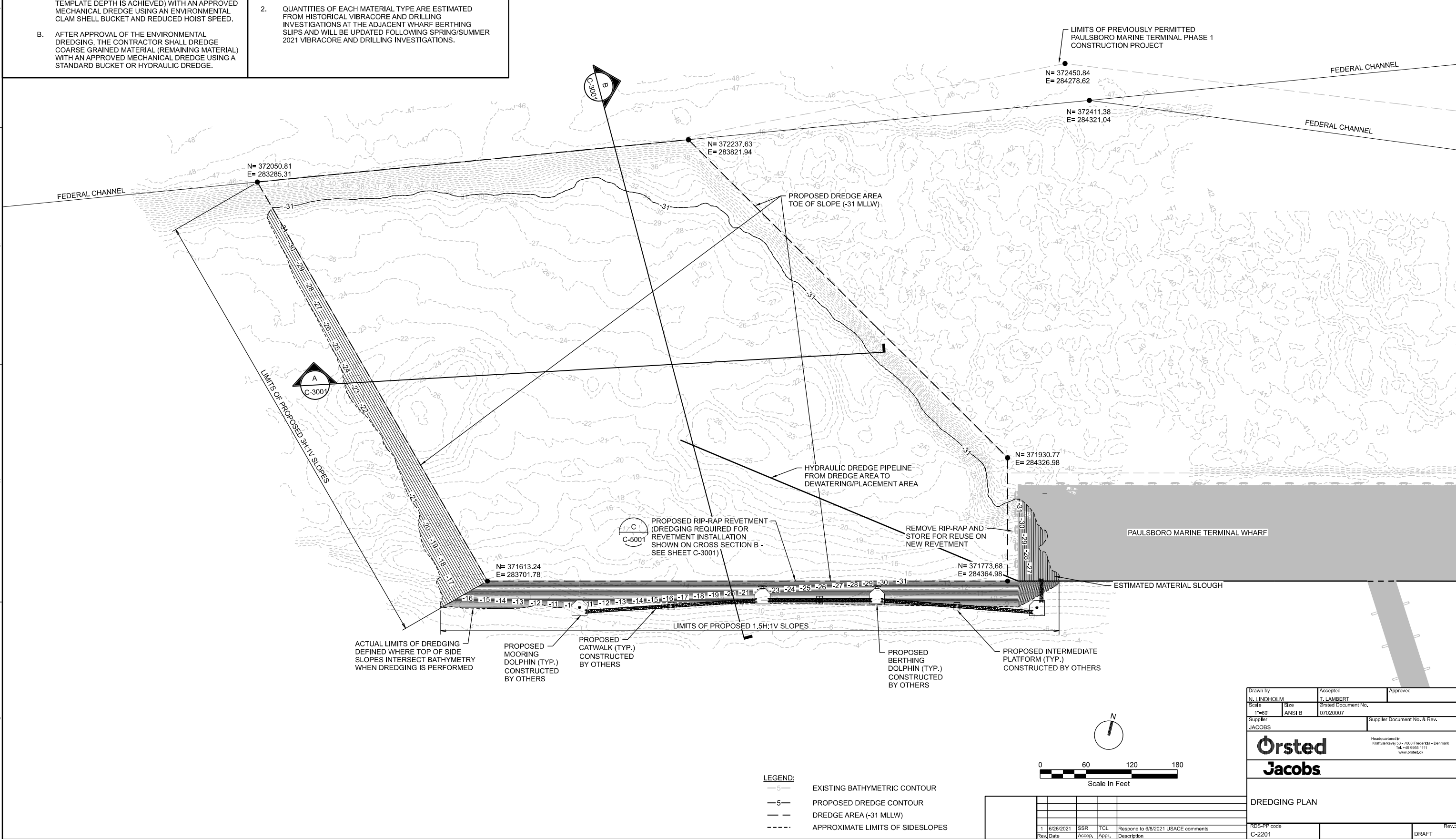
DREDGING NOTES:

1. PRE-DREDGE SURVEY WILL DICTATE ACTUAL DREDGING LIMITS AND EXTENT OF TOP OF SLOPE.
2. SEE SPECIFICATIONS FOR DETAILED DREDGING INSTRUCTIONS. THE DREDGE CONCEPT IS OUTLINED BELOW:
- A. CONTRACTOR SHALL DREDGE FINE GRAINED MATERIAL PROVIDING 100% COVERAGE OF DREDGE AREA (UNTIL BUCKET REFUSAL OR TEMPLATE DEPTH IS ACHIEVED) WITH AN APPROVED MECHANICAL DREDGE USING AN ENVIRONMENTAL CLAM SHELL BUCKET AND REDUCED HOIST SPEED.
- B. AFTER APPROVAL OF THE ENVIRONMENTAL DREDGING, THE CONTRACTOR SHALL DREDGE COARSE GRAINED MATERIAL (REMAINING MATERIAL) WITH AN APPROVED MECHANICAL DREDGE USING A STANDARD BUCKET OR HYDRAULIC DREDGE.

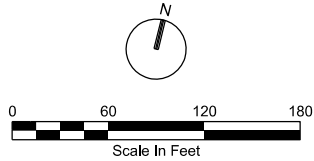
ESIMATED DREDGE VOLUMES:


MATERIAL	TEMPLATE	OVERDREDGE	TOTAL
FINE GRAINED MATERIAL	30,000 CY	0 CY	30,000 CY
COARSE GRAINED MATERIAL	82,100 CY	28,800 CY	110,900 CY
TOTAL REMOVAL VOLUME	112,100 CY	28,800 CY	140,900 CY

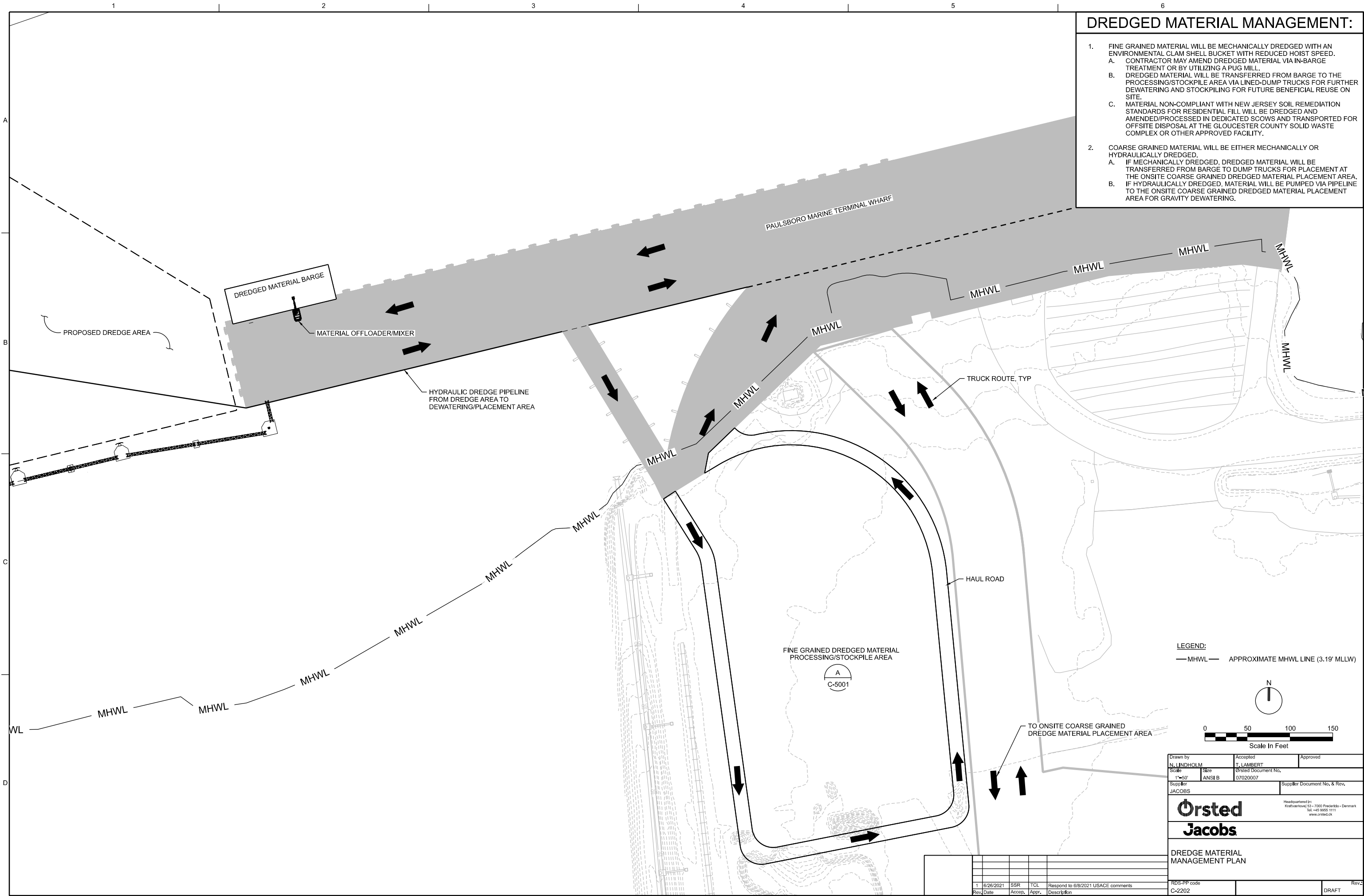
1. ESTIMATED QUANTITIES ARE BASED ON THE AUGUST 17, 2020 BATHYMETRIC SURVEY AND DREDGE DESIGN SURFACE AS DEPICTED ON THIS SHEET.
2. QUANTITIES OF EACH MATERIAL TYPE ARE ESTIMATED FROM HISTORICAL VIBRACORE AND DRILLING INVESTIGATIONS AT THE ADJACENT WHARF BERTHING SLIPS AND WILL BE UPDATED FOLLOWING SPRING/SUMMER 2021 VIBRACORE AND DRILLING INVESTIGATIONS.



- LEGEND:
- EXISTING BATHYMETRIC CONTOUR
 - - - PROPOSED DREDGE CONTOUR
 - - - DREDGE AREA (-31 MLLW)
 - - - APPROXIMATE LIMITS OF SIDESLOPES

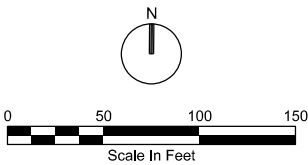




Drawn by N. LINDHOLM		Accepted T. LAMBERT	Approved
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DREDGING PLAN			
RDS-PP code C-2201		Rev.2 DRAFT	

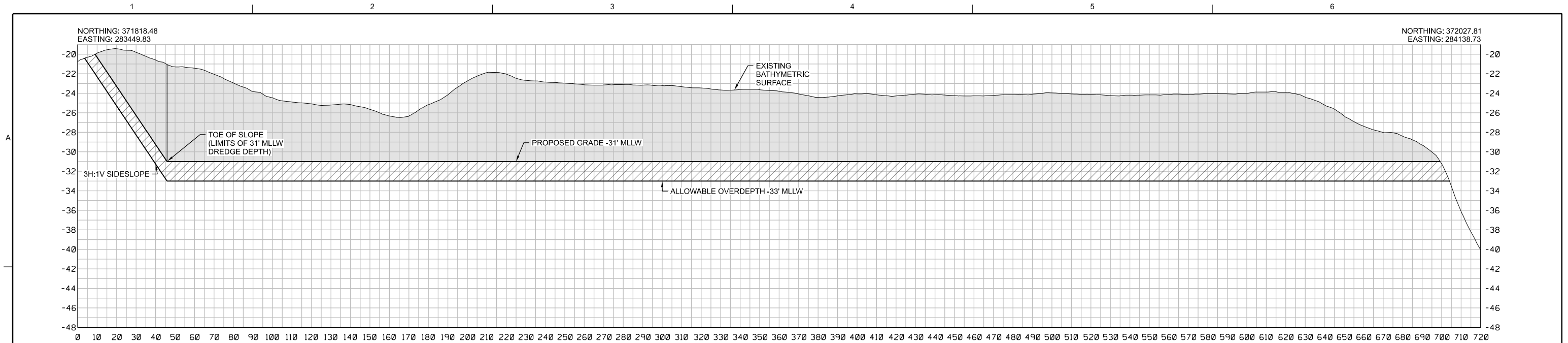




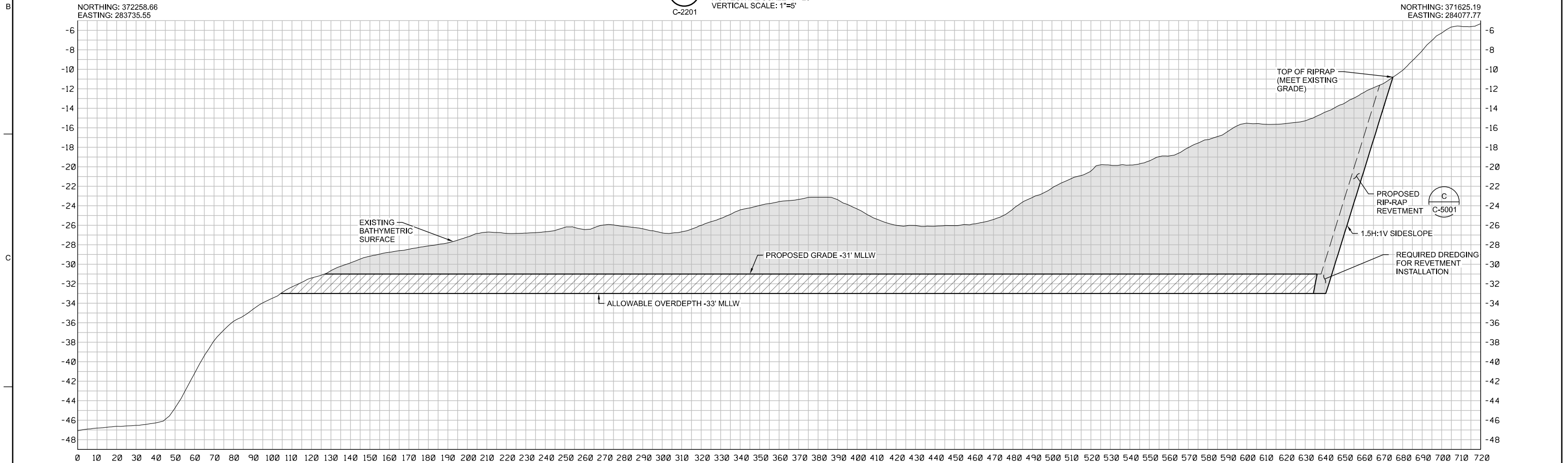
- ### GENERAL NOTES
- THE ONSITE COARSE GRAINED DREDGED MATERIAL PLACEMENT AREA WILL UTILIZE A 6 TO 7 FEET DEEP BORROW PIT CONSTRUCTED BY OTHERS PRIOR TO DREDGING.
 - EITHER:
 - COARSE GRAINED MATERIAL WILL BE MECHANICALLY DREDGED AND PLACED INTO AND GRADED WITHIN THE ONSITE PLACEMENT AREA, OR
 - COARSE GRAINED MATERIAL WILL BE HYDRAULICALLY DREDGED AND THE MATERIAL PUMPED TO THE PLACEMENT AREA FOR DEWATERING. DECANT WATER WILL BE DISCHARGED INTO THE EXISTING STORM WATER COLLECTION AND DISCHARGE SYSTEM VIA STANDPIPE(S) CONSTRUCTED BY OTHERS.




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DREDGE MATERIAL PLACEMENT PLAN			
RDS-PP code C-2203		DRAFT	Rev.2



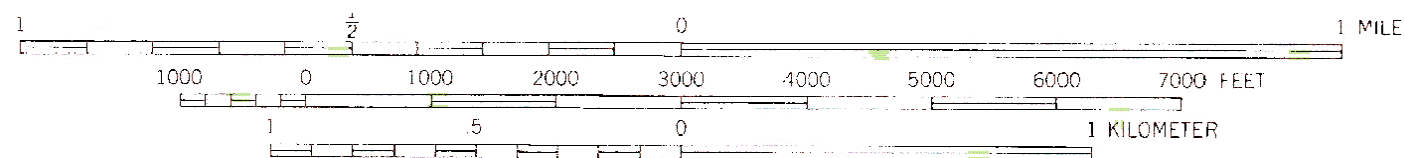
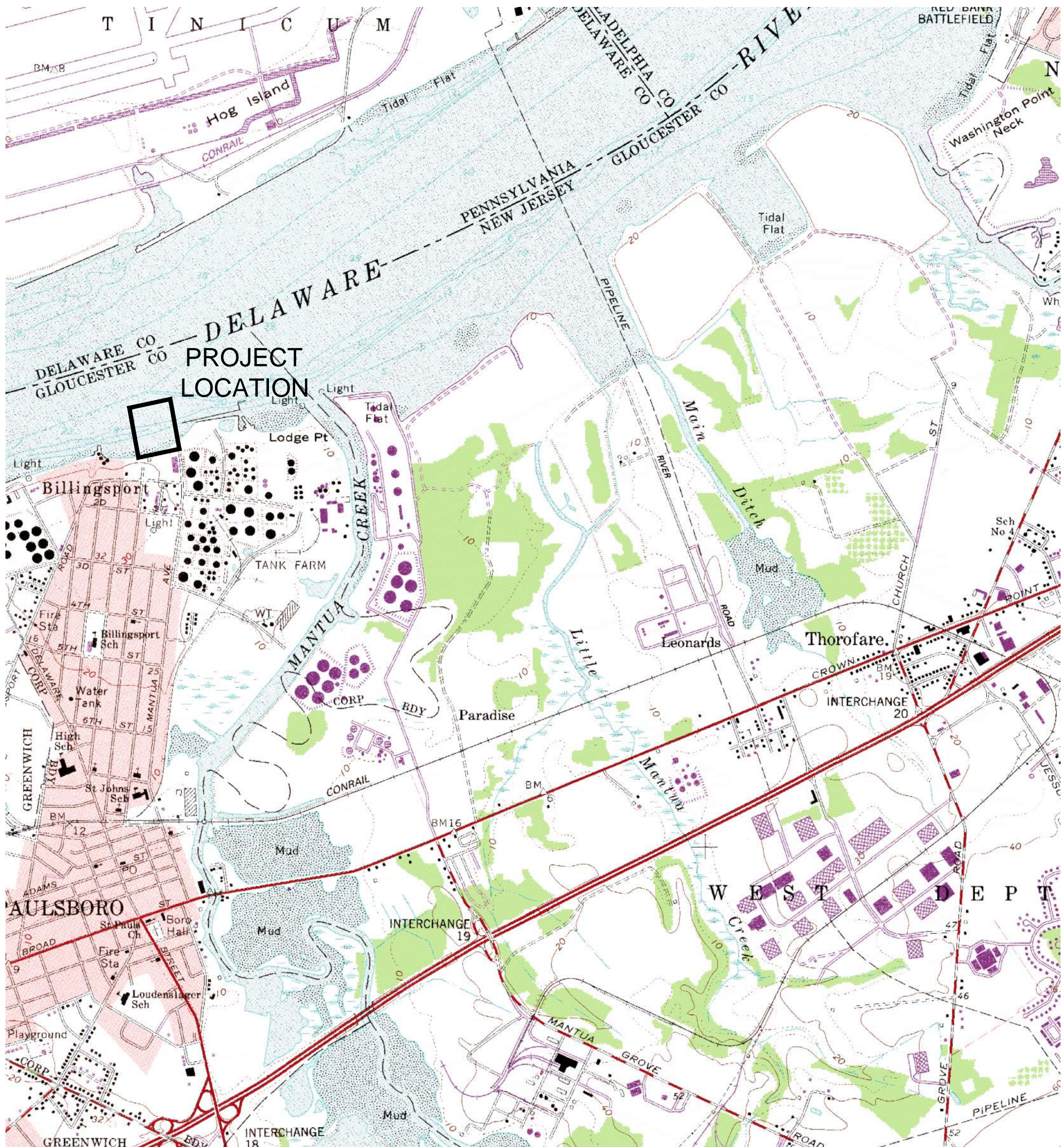
A DREDGE SECTION A
HORIZONTAL SCALE: 1"=25'
VERTICAL SCALE: 1"=5'
C-2201



B DREDGE SECTION B
HORIZONTAL SCALE: 1"=25'
VERTICAL SCALE: 1"=5'
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DREDGE CROSS SECTIONS			
RDS-PP code C-3001		DRAFT	Rev.2

ØRSTED NORTH AMERICA
RORO BERTH DOLPHIN DESIGN
PAULSBORO MARINE TERMINAL
BOROUGH OF PAULSBORO
GLOUCESTER COUNTY, NEW JERSEY



DRAWING INDEX		
SHEET	SHEET NO.	SHEET TITLE
1	G-001	COVER SHEET AND DRAWING INDEX
2	G-002	GENERAL NOTES
3	S-101	OVERALL PLAN
4	S-301	BERTHING DOLPHINS BD-1 AND BD-2 PLANS AND SECTION
5	S-310	MOORING DOLPHINS MD-1 AND MD-2 PLANS AND SECTION
6	S-320	INTERMEDIATE PLATFORM PLANS AND SECTION
7	S-401	CATWALK DETAILS
8	S-501	PILE CAP REINFORCEMENT 1 OF 2
9	S-502	PILE CAP REINFORCEMENT 2 OF 2
10	S-510	PIPE PILE SECTIONS AND DETAILS
11	S-521	BOLLARD DETAILS
12	S-531	FENDER DETAILS
13	S-551	HANDRAIL AND CURB DETAILS
14	S-552	LADDER DETAILS

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COVER SHEET AND DRAWING INDEX					
RDS-PP code		SHEET		Rev.	
G-001		1 OF 14		A	

GENERAL NOTES

1. DESIGN AND CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES AND STANDARDS, THE PROJECT SPECIFICATIONS, DRAWINGS AND NOTES. GENERAL NOTES AND SPECIFIC NOTES ON EACH DRAWING SHALL TAKE PRECEDENCE OVER PROJECT SPECIFICATIONS. NOTES ON DETAIL DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES. STATE AND LOCAL CODES SHALL TAKE PRECEDENCE OVER PROJECT SPECIFICATIONS AND NOTES.

2. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO MOBILIZING. ALL EXISTING & PROPOSED DIMENSIONS AND ELEVATIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY FABRICATION AND ERECTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.

3. THE CONTRACTOR SHALL PLACE BOOMS, TARPULINS, FLOATS, STAGING, AND OTHER DEVICES AS NECESSARY TO PREVENT CONSTRUCTION MATERIALS FROM ENTERING THE WATER AND LEAVING THE IMMEDIATE VICINITY OF THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF ALL MATERIALS.

4. THE CONTRACTOR SHALL REMOVE FROM THE SITE ANY WASTE MATERIAL AND DEBRIS GENERATED DURING THE COURSE OF THE WORK. DISPOSAL OF ALL GENERATED WASTE MATERIAL AND DEBRIS IS THE CONTRACTORS RESPONSIBILITY, UNO.

5. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE ENVIRONMENTAL PROTECTION STANDARDS, CODES, LAWS, REGULATIONS, AND PERMITS.

6. THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS SO AS TO NOT INTERFERE, WITH OR BE DETRIMENTAL TO, VESSEL AND VEHICULAR TRAFFIC DURING THE COURSE OF THE WORK.

7. ALL STRUCTURES ARE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER ERECTION IS FULLY COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ERECTION PROCEDURES AND SEQUENCE AND TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS WHICH MAY BE NECESSARY. SUCH MATERIAL SHALL REMAIN CONTRACTORS PROPERTY AFTER COMPLETION OF PROJECT.

8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

9. ELEVATIONS SHOWN ON DRAWINGS ARE REFERENCED TO MLLW, UNO.

10. IN ACCORDANCE WITH CFR TITLE 14 PART 77, THE CONTRACTOR SHALL FILE FAA FORM 7460-1, NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION, FOR ANY CONSTRUCTION EQUIPMENT THAT EXCEEDS THE NOTICE CRITERIA SET FORTH IN SECTION 77.9.

11. CONTRACTOR AND ALL SITE WORKERS SHALL HAVE TWIC (TRANSPORTATION WORKER IDENTIFICATION CREDENTIALS) CARDS PRIOR TO ACCESSING THE SITE, AND SHALL COMPLY WITH ALL SITE SECURITY REGULATIONS.

STRUCTURAL STEEL AND STEEL PILINGS

1. ALL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL.

2. STRUCTURAL AND MISCELLANEOUS STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UNO:

ANCHOR BOLTS:

ASTM A 449

3. NUTS SHALL CONFORM TO ASTM A 563 AND WASHERS SHALL CONFORM TO ASTM F436.

4. ALL MISCELLANEOUS METALS INCLUDING BOLTS, WASHERS, NUTS, ANGLES, INSERTS, PLATES, AND OTHER FABRICATIONS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A 123 AND/OR ASTM A 153, AS APPLICABLE AFTER FABRICATION, UNLESS OTHERWISE NOTED OR SPECIFIED.

5. FIELD TREAT DAMAGED GALVANIZED FINISH WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT, COLD GALVANIZING COMPOUNDS OR APPROVED EQUAL. IN ADDITION, ALL EXPOSED THREADED SURFACES SHALL BE CLEANED AND PAINTED WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT AFTER INSTALLATION OF THE NUT.

6. WHEN CONNECTING HARDWARE IS SHOWN ON STRUCTURAL DRAWINGS, THE TYPE, SIZE, SPACING, AND ALIGNMENT ARE CRITICAL AND MUST BE MAINTAINED.

7. ALL WELDING SHALL CONFORM TO AWS D.1.1., LATEST EDITION, UNLESS OTHERWISE SPECIFIED.

8. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1 UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION, AND ERECTION ARE TO BE GOVERNED BY THE LATEST REVISIONS OF:

A. AISC MANUAL OF STEEL CONSTRUCTION - LATEST EDITION

B. AISC CODE OF STANDARD PRACTICE

C. STRUCTURAL WELDING CODE, AWS D1.1 OF THE AMERICAN WELDING SOCIETY

D. SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS

9. ALL WELDS SHALL BE WITH E70XX ELECTRODES IN ACCORDANCE WITH AWS D1.1. USE HIGHER STRENGTH ELECTRODE IF REQUIRED BY AWS D1.1, UNO.

10. PIPE PILES SHALL BE COAL TAR EPOXY COATED FULL PERIMETER (AT ALL FACES) FROM CUT-OFF EL TO EL.-50.0' MLLW.

C.I.P. CONCRETE AND REINFORCING STEEL

1. ALL CONCRETE WORK SHALL COMPLY WITH THE RECOMMENDATIONS OF ACI 301 AND ACI 318.

2. CAST-IN-PLACE CONCRETE STRENGTH SHALL BE 5,000 PSI MINIMUM AT 28 DAYS, U.N.O.

3. NONMETALLIC NON-SHRINK GROUT STRENGTH SHALL BE 5,000 PSI MINIMUM AT 28 DAYS, U.N.O.

4. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315.

5. REINFORCING STEEL FOR CAST-IN-PLACE CONCRETE SHALL CONFORM TO ASTM A 615, GR 60, EXCEPT REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A 706.

6. MINIMUM CONCRETE PROTECTION FOR ALL REINFORCING SHALL BE 3 INCHES, U.N.O.

7. LAP SPLICE REINFORCING STEEL AS INDICATED. LAP SPLICES NOT SPECIFICALLY DIMENSIONED SHALL BE IN ACCORDANCE WITH ACI 318, CLASS "B." TOP BARS ARE HORIZONTAL BARS WITH 12 INCHES OR MORE OF CONCRETE CAST BELOW THE BARS.

BAR SIZES	TOP BARS	OTHER BARS
	5,000 PSI	5,000 PSI
#3	22"	17"
#4	29"	23"
#5	36"	28"
#6	44"	34"
#7	63"	49"
#8	72"	56"
#9	81"	63"
#10	92"	71"
#11	102"	78"

8. CHAMFER ALL EXTERNAL EXPOSED CORNERS OF CONCRETE WITH A 1 INCH, 45-DEGREE CHAMFER, U.N.O.

9. SINCE THE CONCRETE INSTALLATION AND CURING MAY OCCUR DURING COLD WEATHER, THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF ACI 306R - COLD WEATHER CONCRETING. BIDDERS SHALL REVIEW THE REQUIREMENTS OF THIS SPECIFICATION PRIOR TO SUBMITTING THE BID AND INCLUDE COSTS FOR COMPLYING WITH THIS SPECIFICATION.

ALUMINUM STRUCTURES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF THE ALUMINUM TRUSS CATWALK STRUCTURES, AND ASSOCIATED APPERTUNANCES, SUCH AS RAILINGS, BEARINGS, AND SAFETY CHAINS. DESIGN SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW JERSEY.

2. THE MIDSPAN DEFLECTION UNDER DESIGN SERVICE LOADS SHALL NOT EXCEED L/240, WHERE "L" IS THE LENGTH OF THE UNSUPPORTED SPAN.

3. ALUMINUM SHALL CONFORM WITH GRADE 6061-T6.

4. ALL ALUMINUM BASES IN CONCTACT WITH CONCRETE OR OTHER DISSIMILAR MATERIALS SHALL BE COATED WITH BITUMINOUS PAINT PER THE ALUMINUM CATWALK MANUFACTURER'S RECOMMENDATIONS.

DESIGN LOADS

1. DESIGN VESSELS

A. LARGEST DESIGN VESSEL: PAN OCEAN SUR RISE: SUBMERSIBLE CARRIER
LOA = 552.8 FT
BEAM = 131.2 FT
DESIGN DISPLACEMENT = 26,700 TONNES
MAX. DESIGN DRAFT = 23.3 FT
MIN. DESIGN DRAFT = 19 FT
UNDERKEEL CLEARANCE = 7 FT
MAX. TRANSVERSE WIND SAIL AREA = 9,114 SF
MAX. LONGITUDINAL WIND SAIL AREA = 14,691 SF
DESIGN BARGE: CROWLEY 455
LOA = 400 FT
BEAM = 105 FT
DESIGN DISPLACEMENT = 20, 950 TONNES
MAX DESIGN DRAFT : 10.6FT
MAX TRANSVERSE WIND SAIL AREA: 1,512 SF
MAX LONGITUDINAL WIND SAIL AREA: 5,285 SF

B. MOORING LOADS

BASED ON THE FOLLOWING CRITERIA:

CASE 1: STORM CONDITIONS (MOORING SERVICE TYPE IIB)

WIND VELOCITY = 64 KNOTS)

CURRENT VELOCITY = 2.0 KNOTS

CASE 2: OPERATING CONDITIONS

WIND VELOCITY = 50 KNOTS (MAX OPERATING WIND)

CURRENT VELOCITY = 1.5 KNOTS

3. BERTHING FORCES

BASED ON THE FOLLOWING CRITERIA:

VESSEL DISPLACEMENT: 26,700 TONNES

APPROACH VELOCITY: 0.33 m/s

MAX. APPROACH ANGLE: 3°

4. DEAD LOAD
WEIGHT OF ALL STRUCTURES, MACHINERY, AND MATERIALS ATTACHED TO OR SUPPORTED BY THE STRUCTURE.

5. LIVE LOADS
100 PSF ON DOLPHINS CAPS
60 PSF AND 200 LBS APPLIED ANYWHERE ON TRUSS CATWALK.

SPECIAL INSPECTION

LEGEND:

DETAIL DESIGNATION

1
XXX

DRAWING NUMBER
(REPLACED WITH LINE IF
TAKEN AND SHOWN ON
SAME SHEET)

SECTION DESIGNATION

A
XXX

DRAWING NUMBER
(REPLACED WITH LINE IF
TAKEN AND SHOWN ON
SAME SHEET)

CIVIL/STRUCTURAL ABBREVIATIONS, U.N.O.

ACI = AMERICAN CONCRETE INSTITUTE

AISC = AMERICAN INSTITUTE OF STEEL CONSTRUCTION

ALT = ALTERNATE

ANSI = AMERICAN NATIONAL STANDARDS INSTITUTE

APPROX = APPROXIMATE

ASTM = AMERICAN SOCIETY FOR TESTING AND MATERIALS

AVG = AVERAGE

AWS = AMERICAN WELDING SOCIETY

BOT = BOTTOM

CP = CENTER POINT

CF = CUBIC FEET

CIP = CAST IN PLACE

CL = CENTERLINE

CLR = CLR

CONC = CONCRTE

CONST = CONSTRUCTION

CONT = CONTINUOUS

CJ = CONSTRUCTION JOINT

DIA = DIAMETER

DWG = DRAWING

EA = EACH

EL/ELEV = ELEVATION

EJ = EXPANSION JOINT

ELEC = ELECTRICAL

EW = EACH WAY

EXIST = EXISTING

FT = FEET

FY = YIELD STRESS

GALV = GALVANIZED

GR = GRADE

IN = INCH/INCHES

INTERMED = INTERMEDIATE

LG = LONG

LOA = LENGTH OVERALL

MAX = MAXIMUM

MEA = MEASURED

MHHW = MEAN HIGHER HIGH WATER

MHW = MEAN HIGH WATER

MIN = MINIMUM

MISC = MISCELLANEOUS

MLLW = MEAN LOWER LOW WATER

MLW = MEAN LOW WATER

M/S = METER PER SECOND

MSL = MEAN SEA LEVEL

MTL = MEAN TIDE LEVEL

N = NORTH

NAD-83 = NORTH AMERICAN DATUM OF 1983

NTS = NOT TO SCALE

NAVD-88 = NORTH AMERICAN VERTICAL DATUM OF 1988

NGVD-29 = NATIONAL GEODETIC VERTICAL DATUM OF 1929

NTP = NOTICE TO PROCEED

NIC = NOT IN CONTRACT

OC = ON CENTER

OSHA = OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

PSF = POUNDS PER SQUARE FOOT

PSI = POUNDS PER SQUARE INCH

REQD = REQUIRED

SF = SQUARE FEET

SHT = SHEET

SIM = SIMILAR

ST = SHORT TON

STL = STEEL

T&B = TOP AND BOTTOM

TBD = TO BE DETERMINED

TEMP = TEMPORARY

THK = THICK

TOC = TOP OF CONCRETE

TONNE = METRIC TON

TYP = TYPICAL

UNMWPE = ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE

UNO = UNLESS NOTED OTHERWISE

W/ = WITH

WP = WORKING POINT

WT = WALL THICKNESS

= NUMBER

@ = AT



X = BY

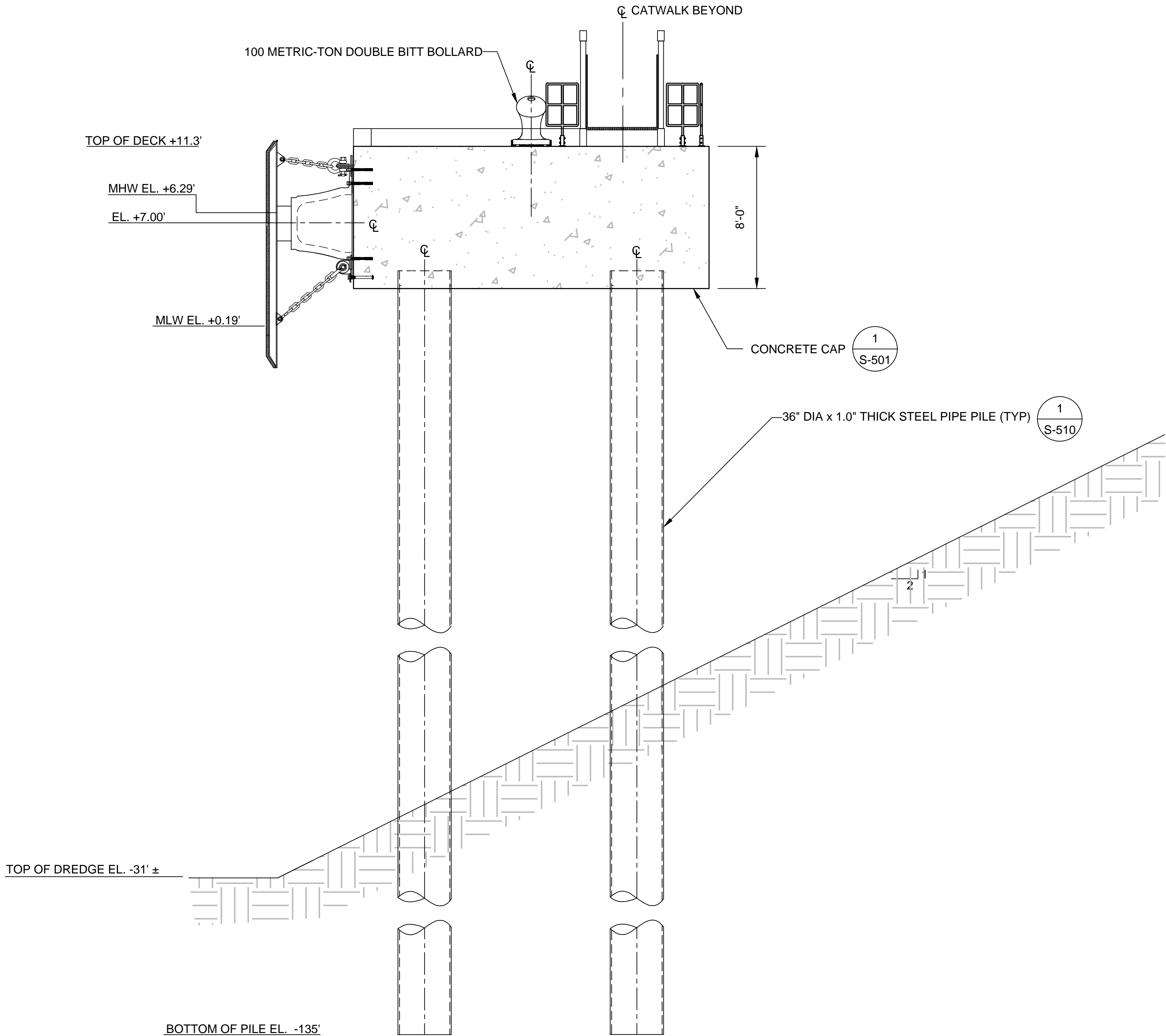
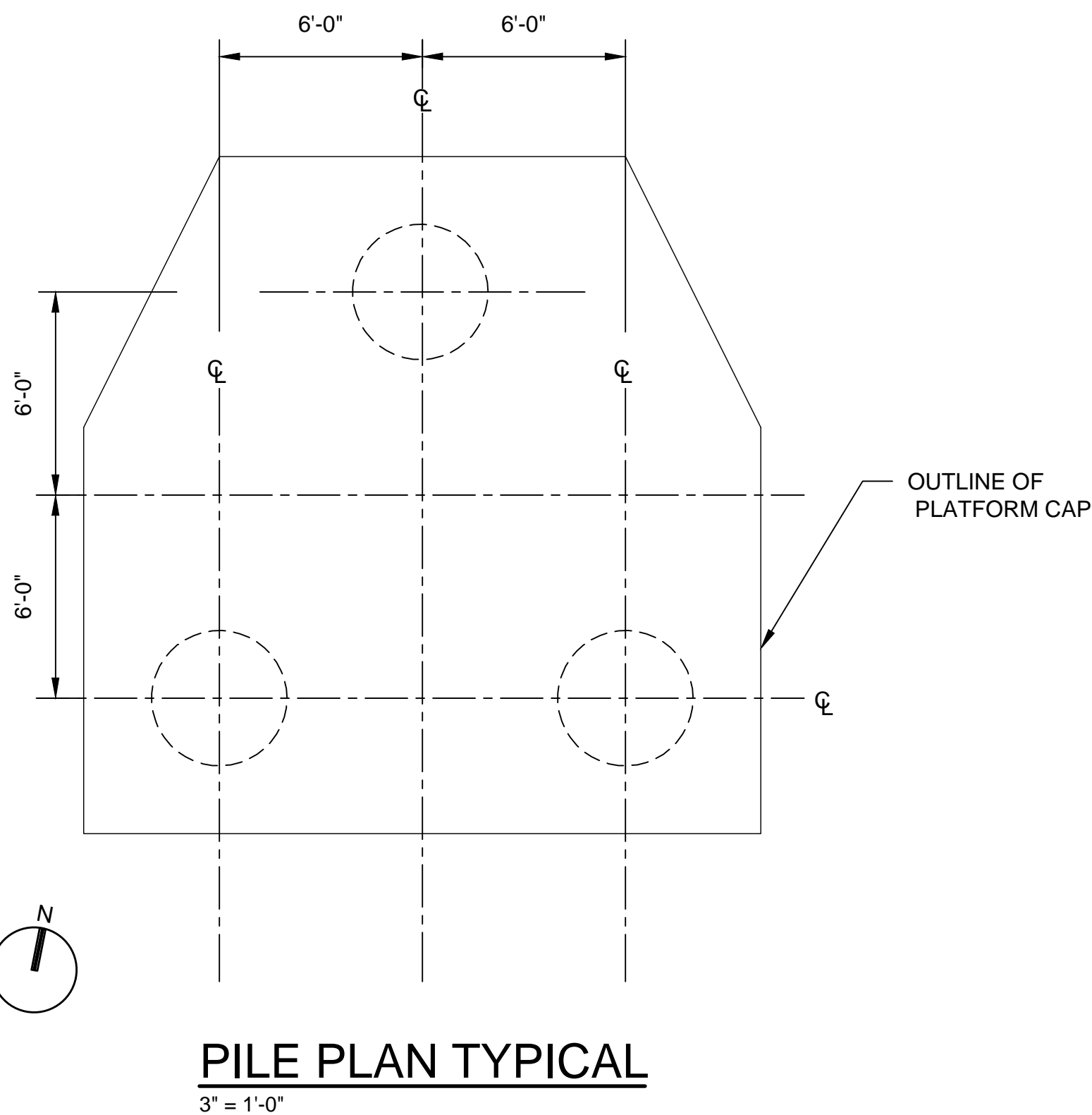
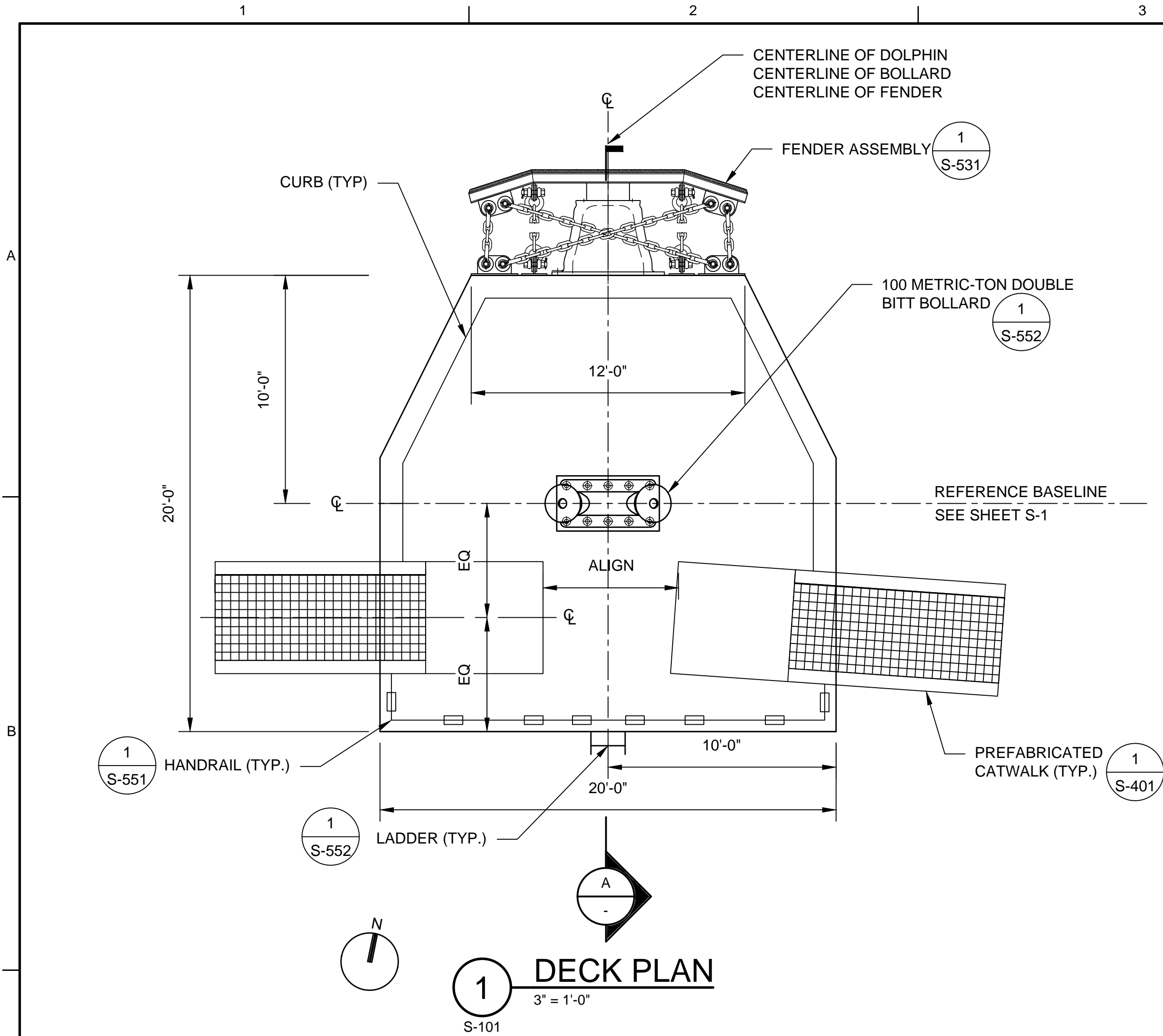
Ø = DIAMETER

/ = PER

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OVERALL PLAN					
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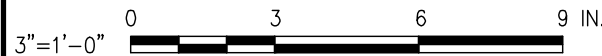


NOTES:

1. BERTHING DOLPHIN BD-1 SHOWN, BERTHING DOLPHIN BD-2 SIMILAR.

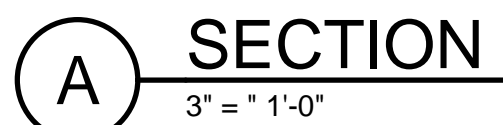
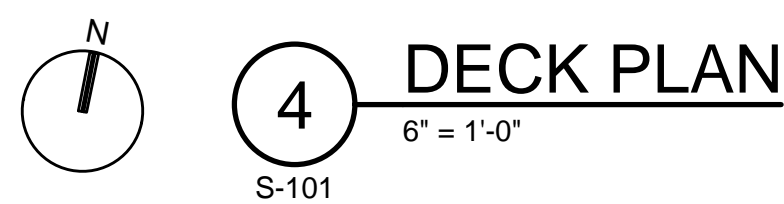
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BERTHING DOLPHINS BD-1 AND BD-2 PLANS AND SECTION					
RDS-PP code		SHEET		Rev.	
S-301		4 OF 14		A	



FILENAME:

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1. INTERMEDIATE PLATFORM PF-1 SHOWN, PLATFORMS PF-2 AND PF-3 SIMILAR.

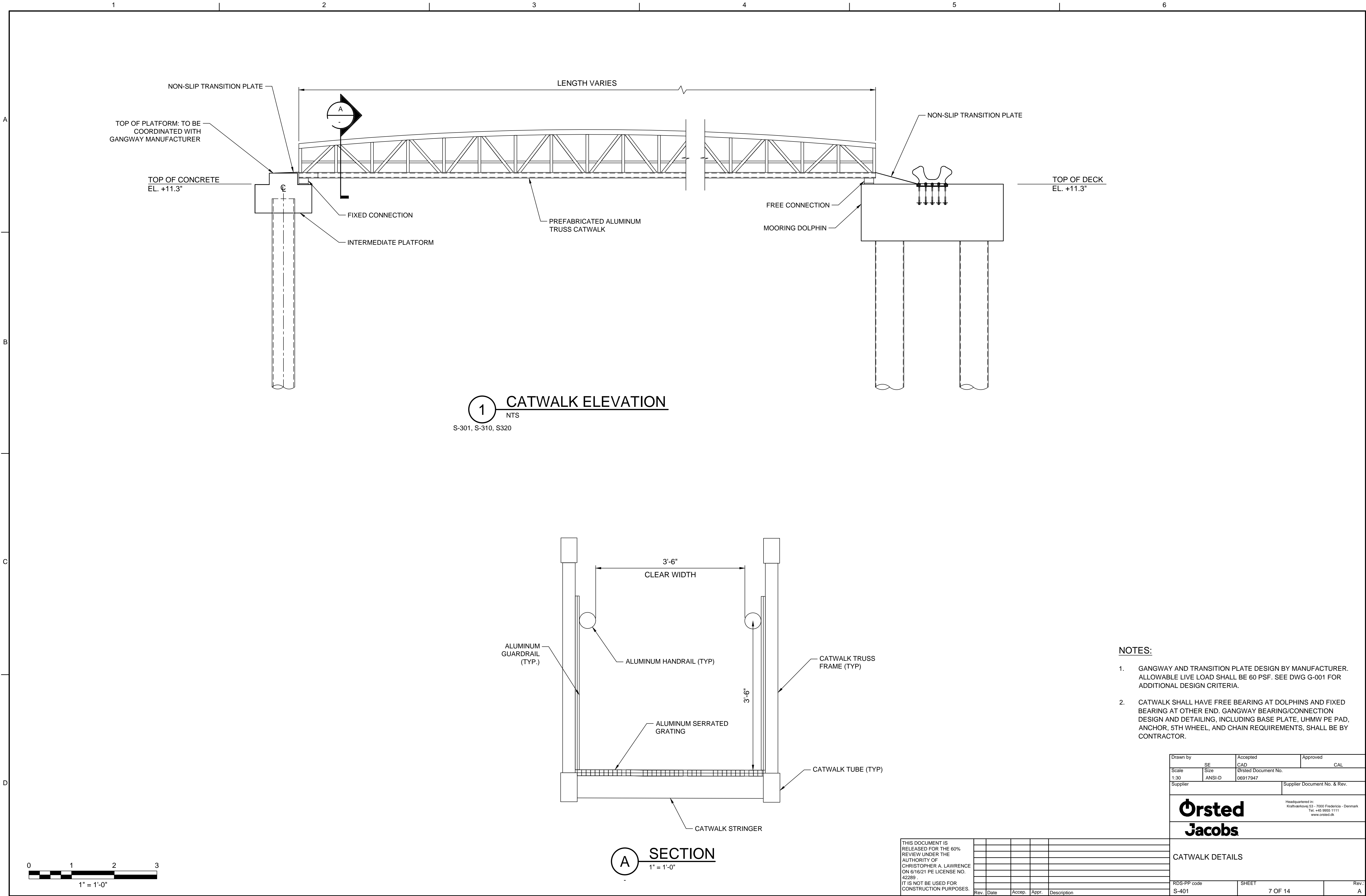
Jacobs

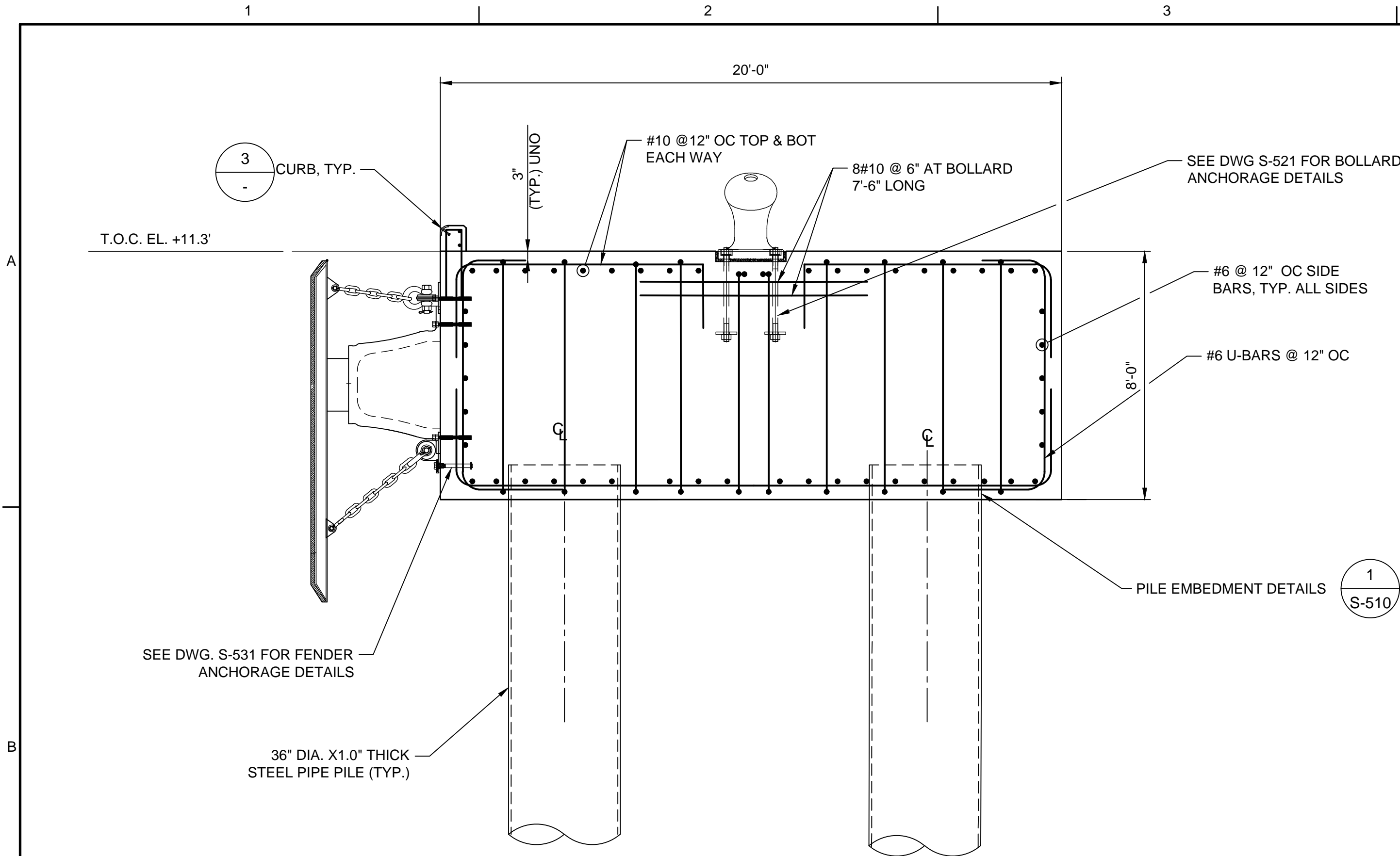
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S-320	6 OF 14	A

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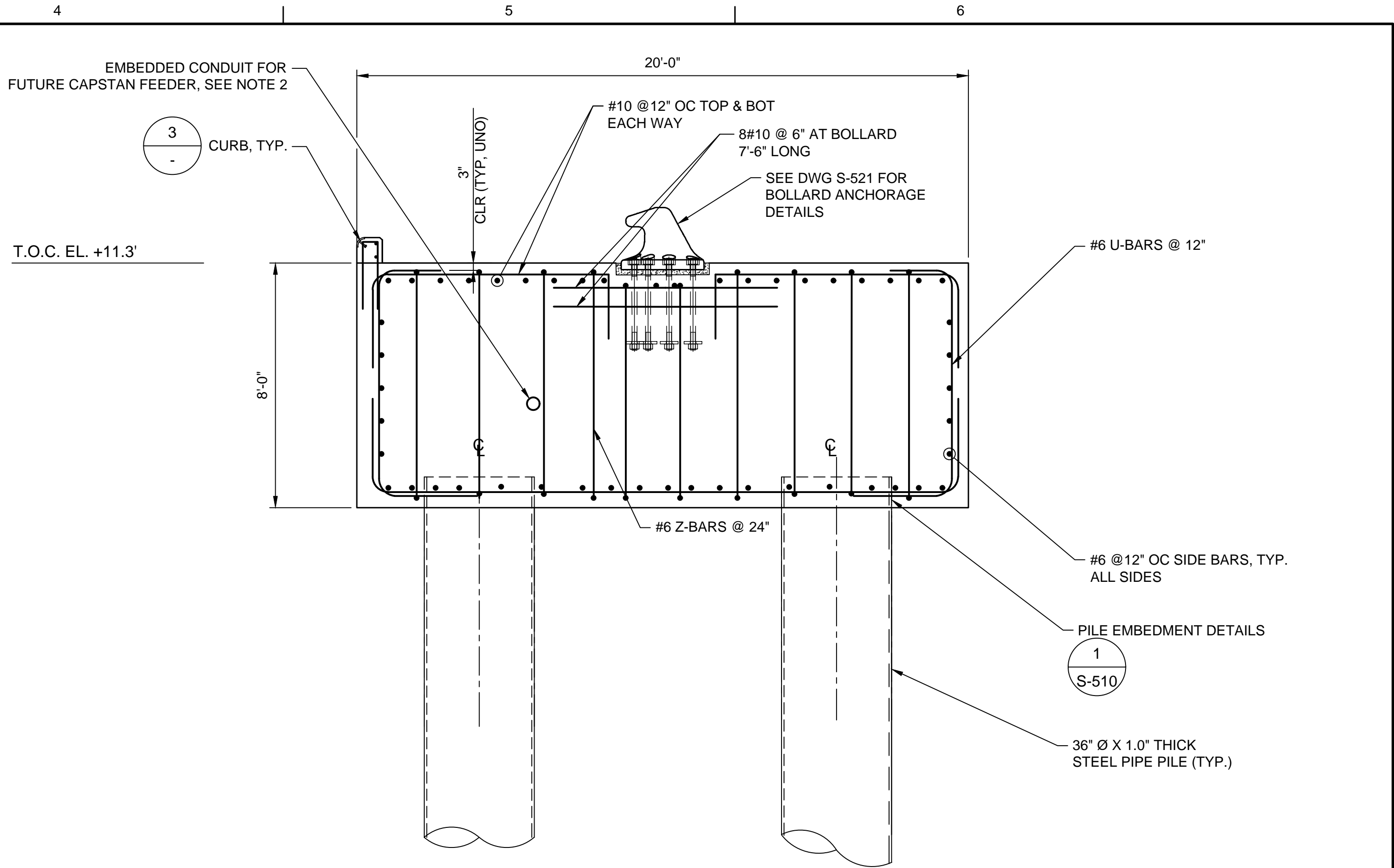
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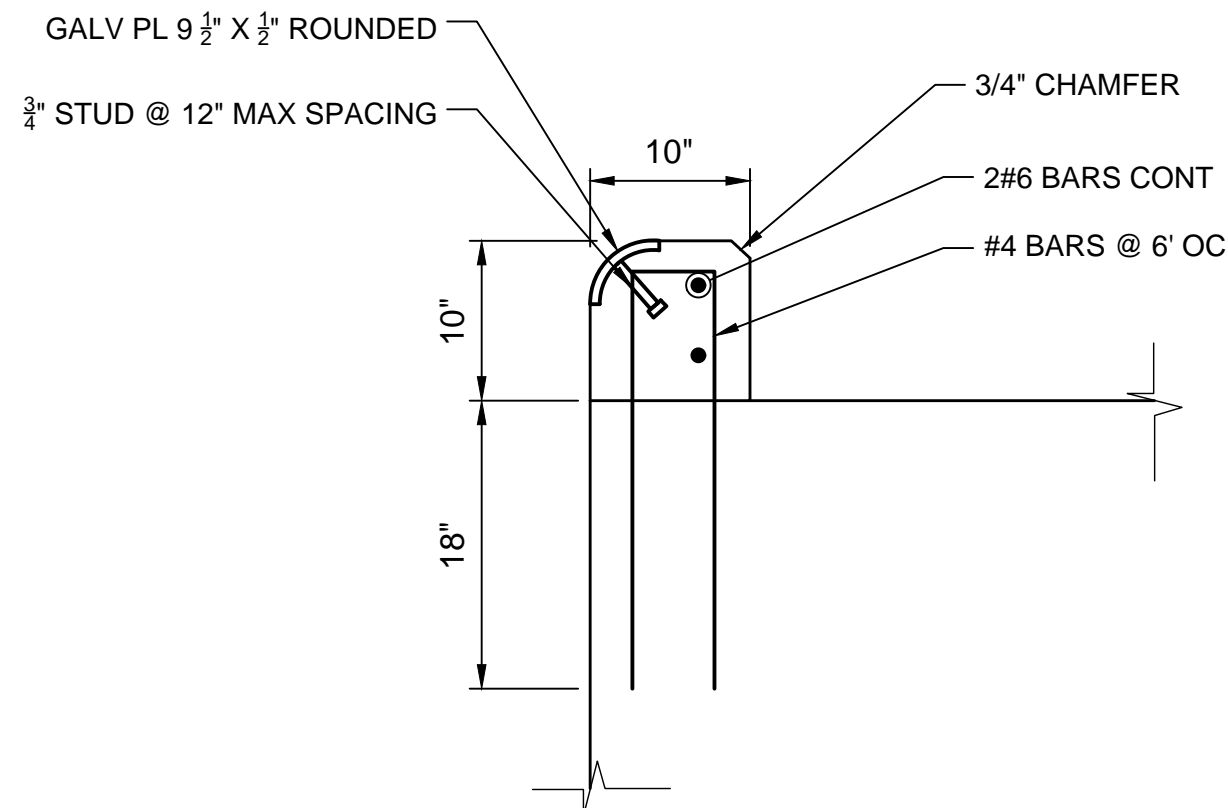




1 BERTHING DOLPHIN REINFORCEMENT
1" = 3'-0"



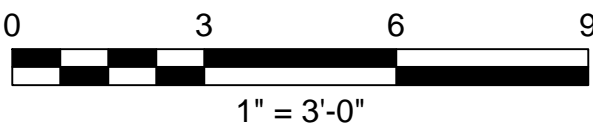
2 MOORING DOLPHIN REINFORCEMENT
1" = 3'-0"




NOTE: PILE CAP REINFORCEMENT NOT SHOWN FOR CLARITY

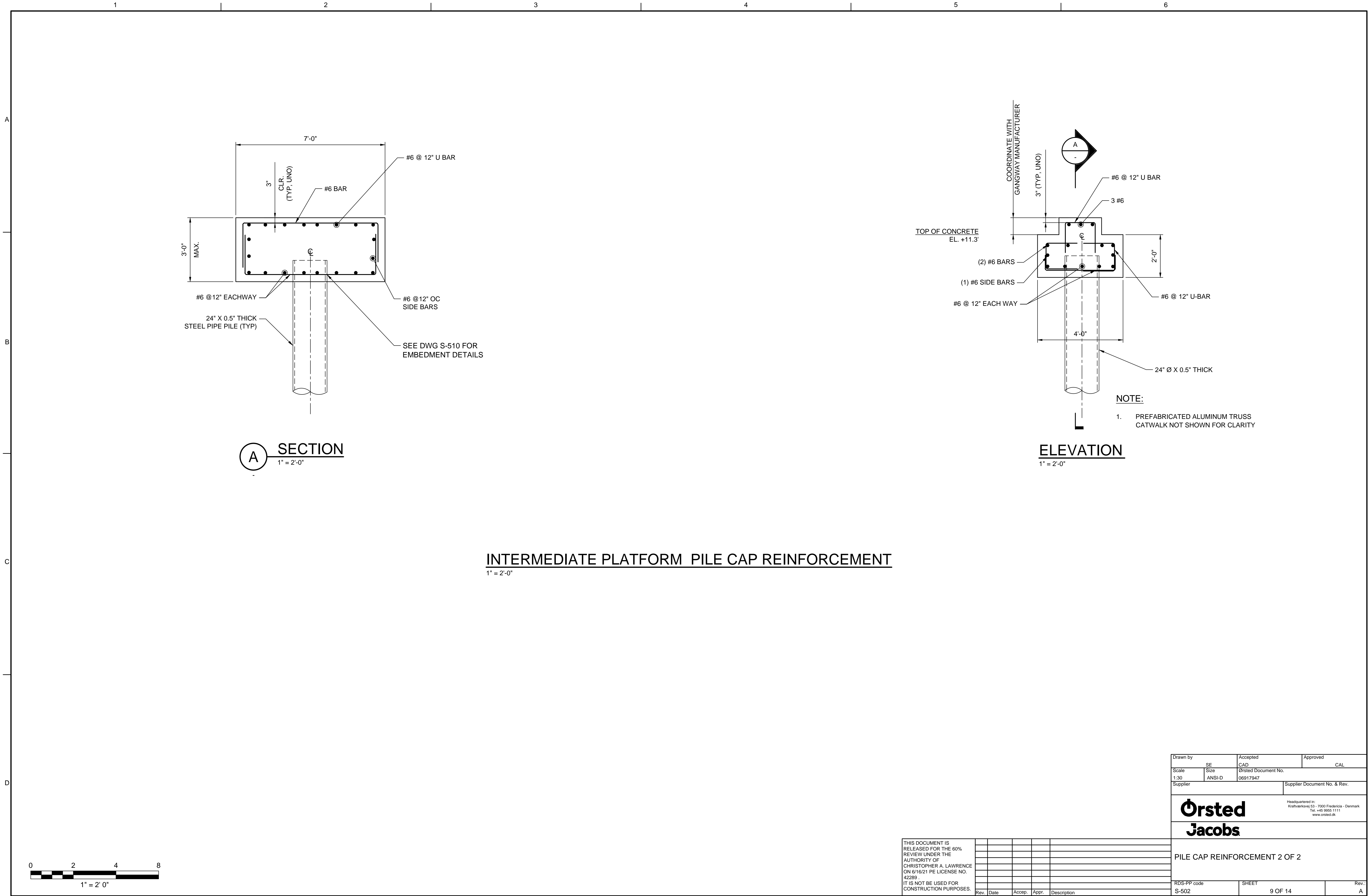
3 CURB SECTION
1" = 1'-0"

- NOTES:**
- RAILING, AND CATWALK NOT SHOW FOR CLARITY.
 - CONTRACTOR TO SUBMIT PROPOSED CONDUIT ROUTING AND DETAILS FOR APPROVAL.



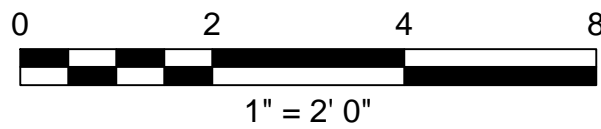
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PILE CAP REINFORCEMENT 1 OF 2					
RDS-PP code		SHEET		Rev.:	
S-501		8 OF 14		A	




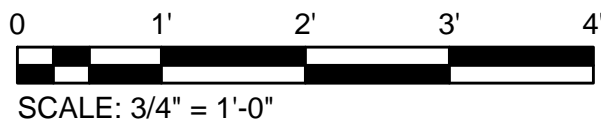
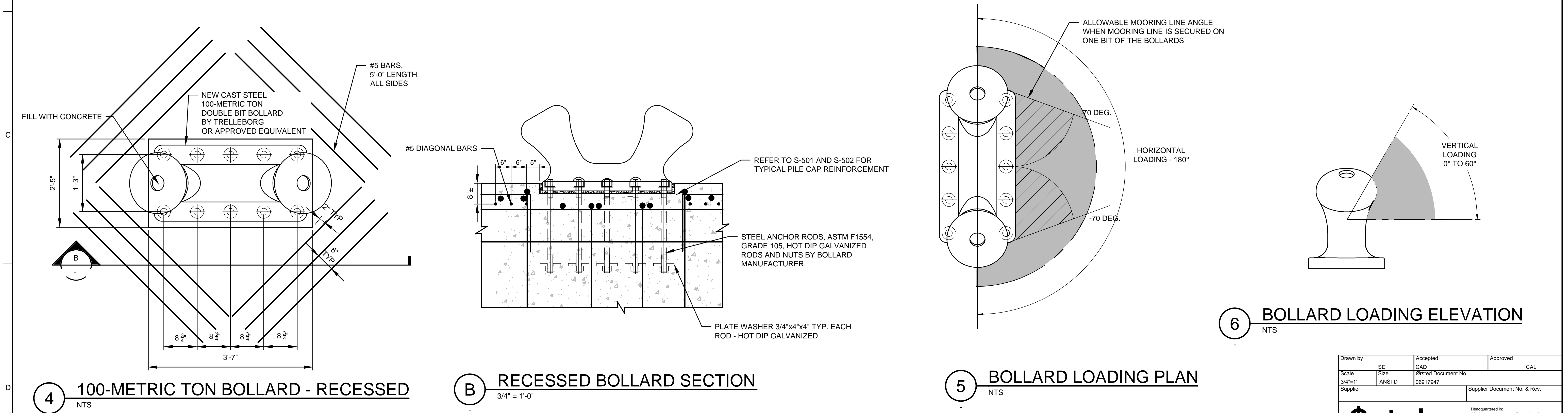
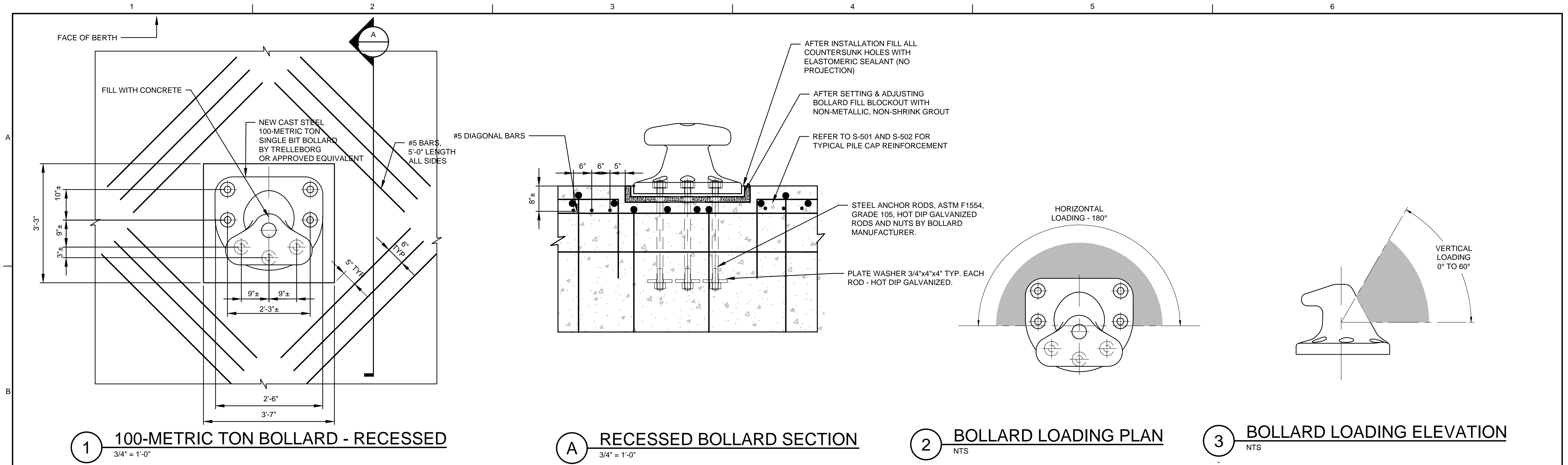
INTERMEDIATE PLATFORM PILE CAP REINFORCEMENT

1" = 2'-0"



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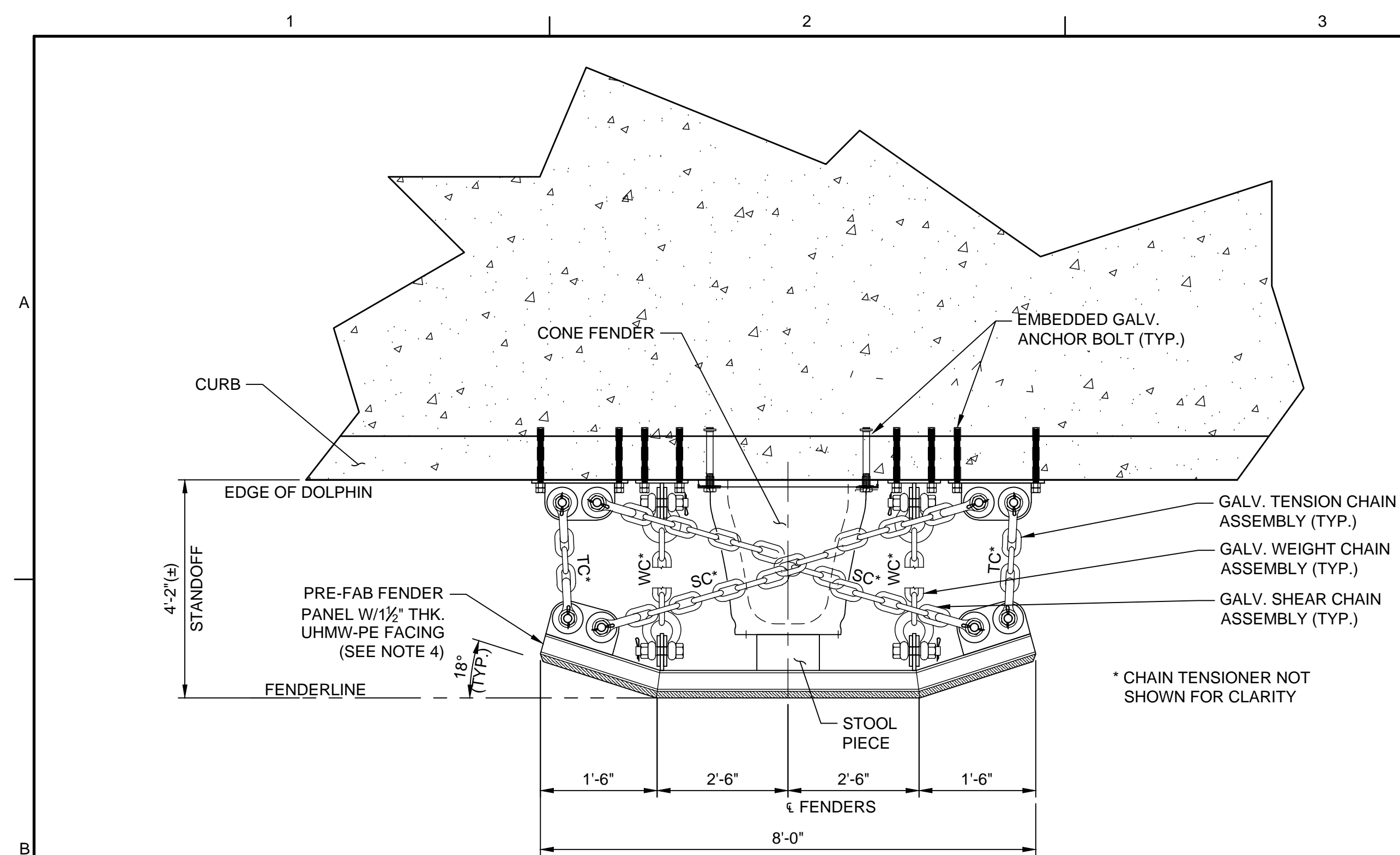
Drawn by SE		Accepted CAD		Approved CAL	
Scale 1:30	Size ANSI-D	Ørsted Document No. 06917947			
Supplier			Supplier Document No. & Rev.		
<div><div><div>Ørsted</div></div><div><div>Jacobs</div></div></div>					
PILE CAP REINFORCEMENT 2 OF 2					
RDS-PP code S-502		SHEET 9 OF 14		Rev.: A	



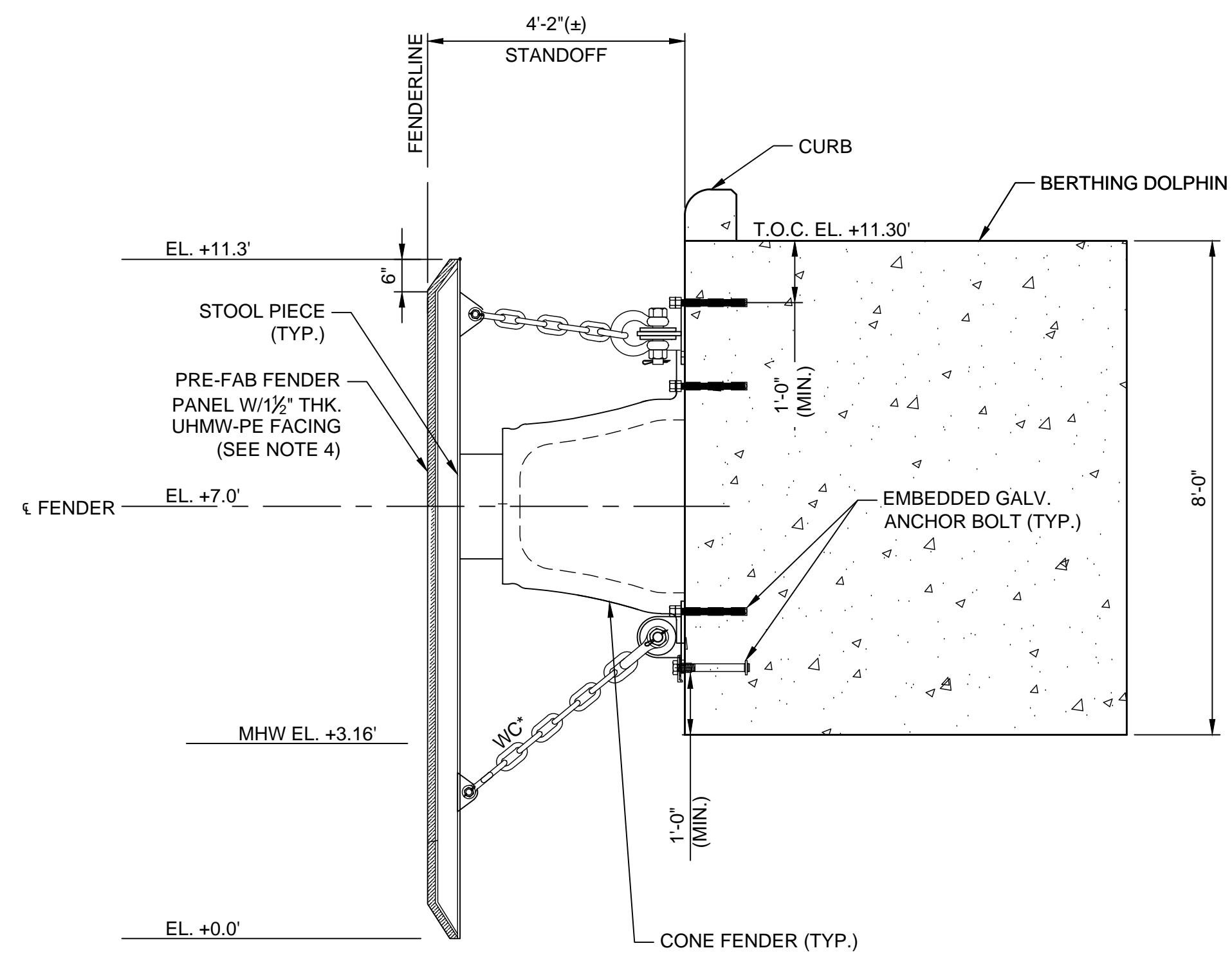
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Scale	Size	Orsted Document No.			
3/4"=1'	ANSI-D	06917947			
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1 FENDER PLAN
NTS
S-301




A SECTION
1/2" = 1'-0"

LEGEND:

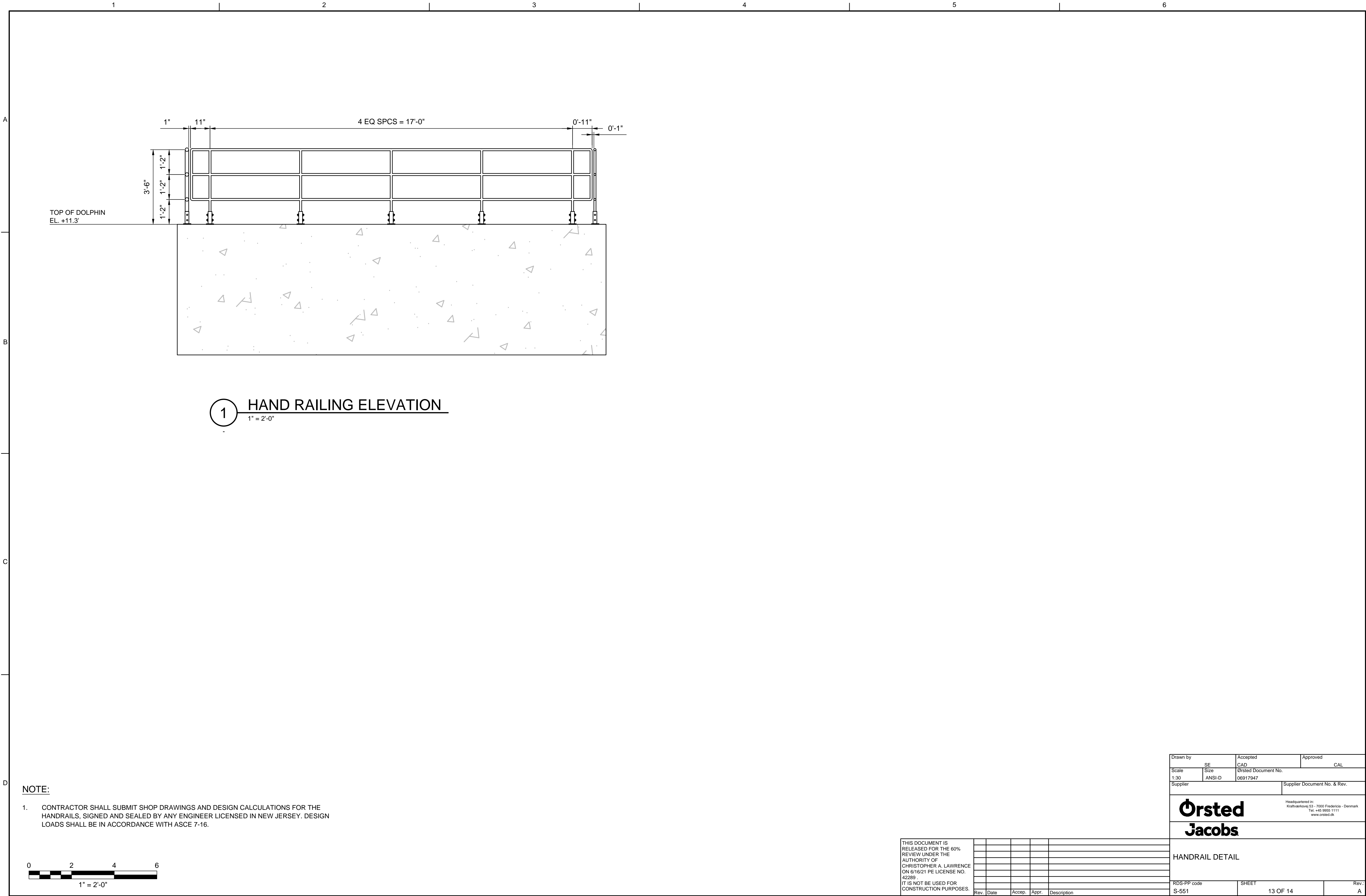
TC	TENSION CHAIN
SC	SHEAR CHAIN
WC	WEIGHT CHAIN

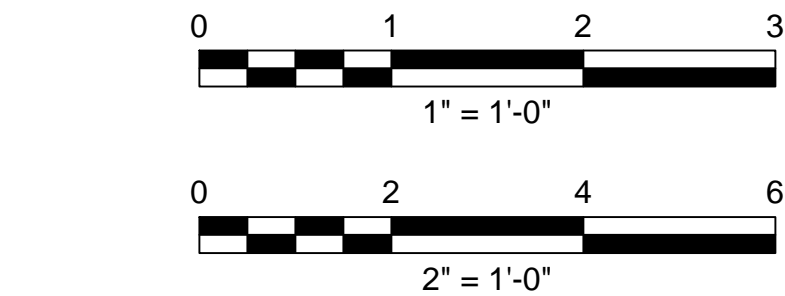
NOTES:

1. FOR GENERAL NOTES, SEE DWG G-001.
2. RUBBER FENDER SHALL BE A 1100MM NOMINAL CONE TYPE MARINE FENDER WITH A MINIMUM RATED ENERGY CAPACITY OF 457 KIP-FT AND A MAXIMUM RATED REACTION OF 212 KIPS. FENDER DEFLECTION SHALL BE RATED AT 70%. FENDER SHALL BE TYPE F1.5.
3. EACH TENSION CHAIN AND WEIGHT CHAIN SHALL BE EQUIPPED WITH A COMPATIBLE CHAIN TENSIONER
4. COATED FENDER PANEL SHALL BE PURCHASED FROM THE SUPPLIER OF THE RUBBER FENDER AND DESIGNED TO RESULT IN 29 PSI
5. CONTRACTOR SHALL HIRE AN ENGINEER REGISTERED IN THE STATE OF NEW JERSEY TO DESIGN THE SHEAR, TENSION AND WEIGHT CHAIN ASSEMBLIES (CHAINS, SHACKLES, PADEYES, TENSIONER AND ANCHORS) FOR THE LOADING CONDITIONS SPECIFIED IN TECHNICAL SPECIFICATIONS, SECTION 3 5-60-00.
6. ALL STEEL ON THIS DRAWING SHALL BE SHOP COATED W/ COAL TAR EPOXY, EXCEPT ELEMENTS SPECIFIED TO BE GALVANIZED.
7. OVERALL HEIGHT AND WIDTH OF PANELS SHALL BE MAINTAINED AS SHOWN ON THE DRAWINGS.
8. MANUFACTURER SHALL DETERMINE ANCHOR ROD SIZE AND EMBEDMENT LENGTH.


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- ## NOTES:
1. LADDER SHALL BE PAINTED SHERWIN-WILLIAMS SAFETY YELLOW. AN ALTERNATE MAY BE USED ONLY AFTER THE WRITTEN APPROVAL OF THE OWNER.
 2. SILICONE JOINT SEALING MATERIAL SHALL MATCH DOW CORNING 888 SILICONE JOINT SEALANT, OR ENGINEER APPROVED EQUAL.
 3. PROVIDE LIFE RING ADJACENT TO EACH LADDER. LIFE RING SHALL BE 30" DIAMETER US COAST GUARD APPROVED WITH AT LEAST 90 FEET OF LINE ATTACHED. ATTACH LIFE RING TO SIDE WALLS OF DOLPHIN STRUCTURE.

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