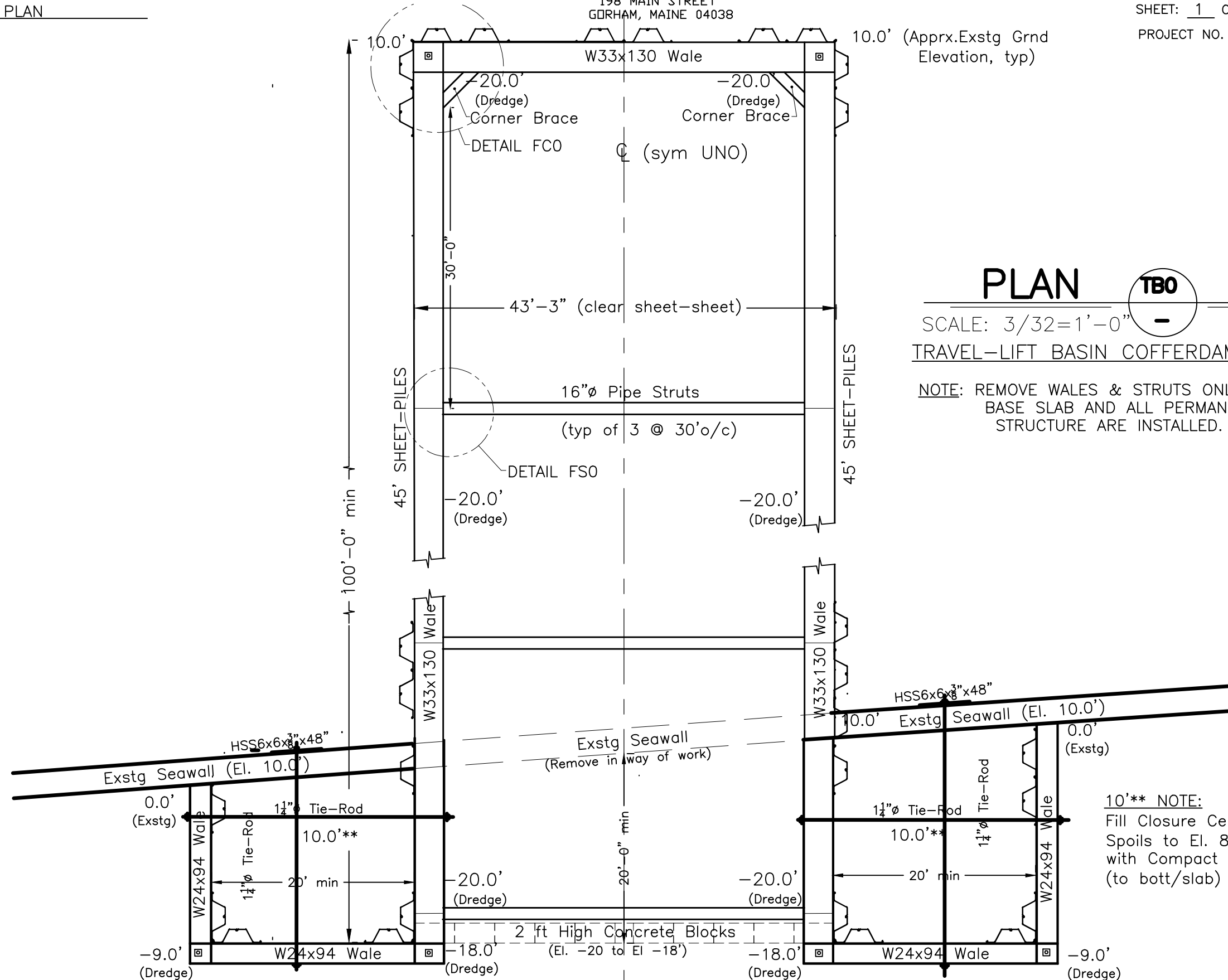


ATTACHMENT 6
TRAVEL LIFT BASIN PLAN SHEETS

PROJECT: CANAL LANDING, LLC (PORTLAND YACHT)
 SUBJECT: TRAVEL-LIFT BASIN
 ITEM: COFFERDAM PLAN

GAGNON ENGINEERING INC.
 Structural Consultants
 198 MAIN STREET
 GORHAM, MAINE 04038

DATE: 12/20/17
 BY: RG
 SHEET: 1 OF 9999
 PROJECT NO. 701PY



PLAN **TBO**

SCALE: 3/32=1'-0"
 TRAVEL-LIFT BASIN COFFERDAM

NOTE: REMOVE WALES & STRUTS ONLY AFTER BASE SLAB AND ALL PERMANENT STRUCTURE ARE INSTALLED.

10'** NOTE:
 Fill Closure Cell w/Dredge Spoils to El. 8.0', Top with Compact Gravel (to bott/slab)

PROJECT: CANAL LANDING, LLC (PORTLAND YACHT)

SUBJECT: TRAVEL-LIFT BASIN

ITEM: BASIN PLAN (Finished)

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BY: RG

SHEET: 2 OF 9999

PROJECT NO. 701PY

PLAN

TB1

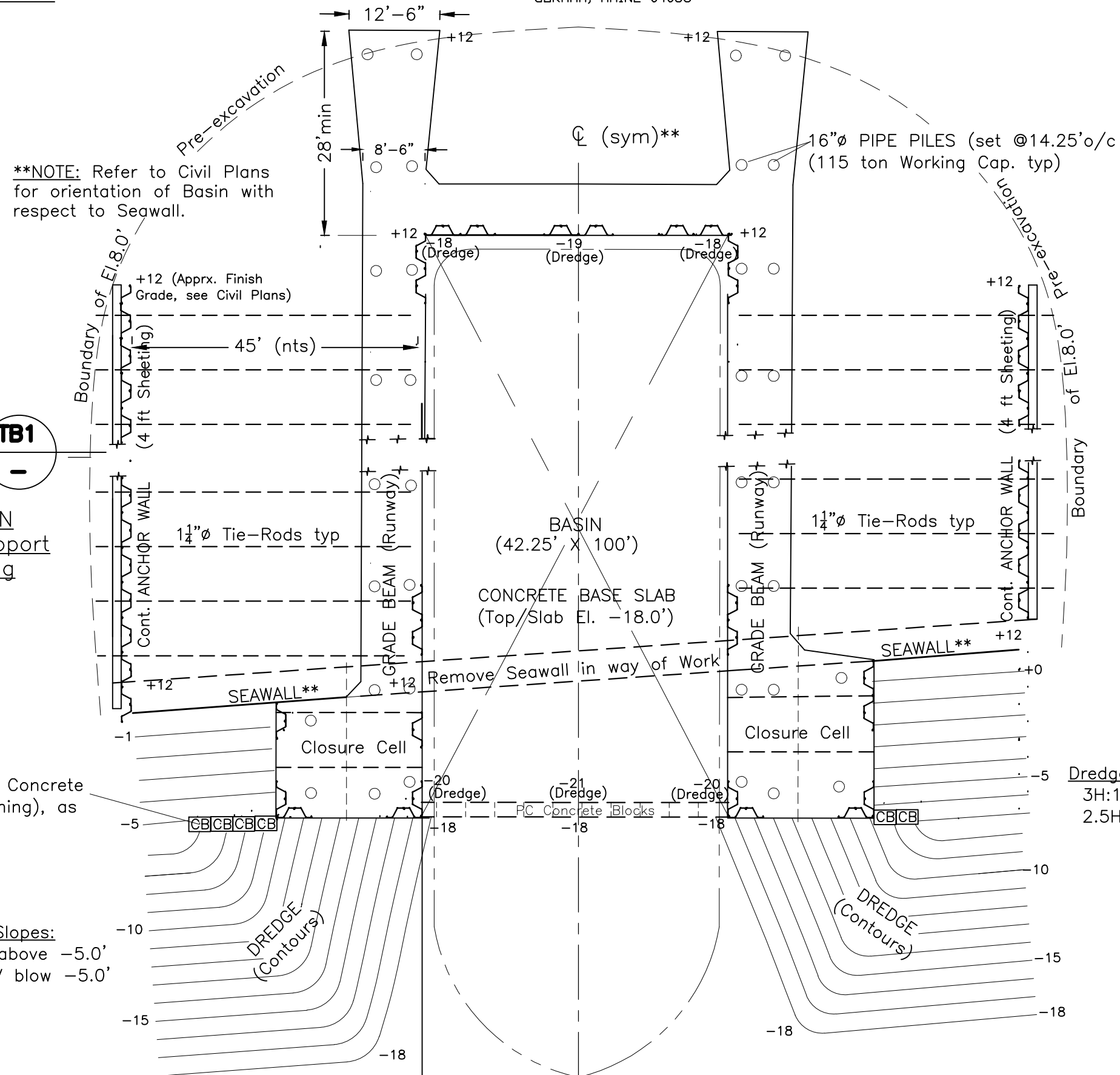
SCALE: 1/16" = 1'-0"

TRAVEL-LIFT BASIN
Basin, Travelway, Support
Structure, Dredging

CB = Precast Concrete
Blocks (retaining), as
Required

Dredge Slopes:
3H:1V above -5.0'
2.5H:1V below -5.0'

Dredge Slopes:
3H:1V above -5.0'
2.5H:1V below -5.0'



**NOTE: Refer to Civil Plans
for orientation of Basin with
respect to Seawall.

Boundary of El. 8.0'
+12 (Apprx. Finish
Grade, see Civil Plans)
45' (nts)
Boundary of El. 8.0'
(4 ft Sheet piling)

1 1/4" Tie-Rods typ
Cont. ANCHOR WALL
GRADE BEAM (Runway)

BASIN
(42.25' X 100')
CONCRETE BASE SLAB
(Top/Slab El. -18.0')

1 1/4" Tie-Rods typ
Cont. ANCHOR WALL
GRADE BEAM (Runway)

SEAWALL**
Remove Seawall in way of Work
Closure Cell
PC Concrete Blocks

DREDGE (Contours)
-18
-20
-21
-20
-18

16"Ø PIPE PILES (set @14.25'o/c
(115 ton Working Cap. typ)

Boundary of El. 8.0'
(4 ft Sheet piling)

PROJECT: CANAL LANDING, LLC (PORTLAND YACHT)

SUBJECT: TRAVEL-LIFT BASIN

ITEM: TYPICAL WALL SECTION

GAGNON ENGINEERING INC.

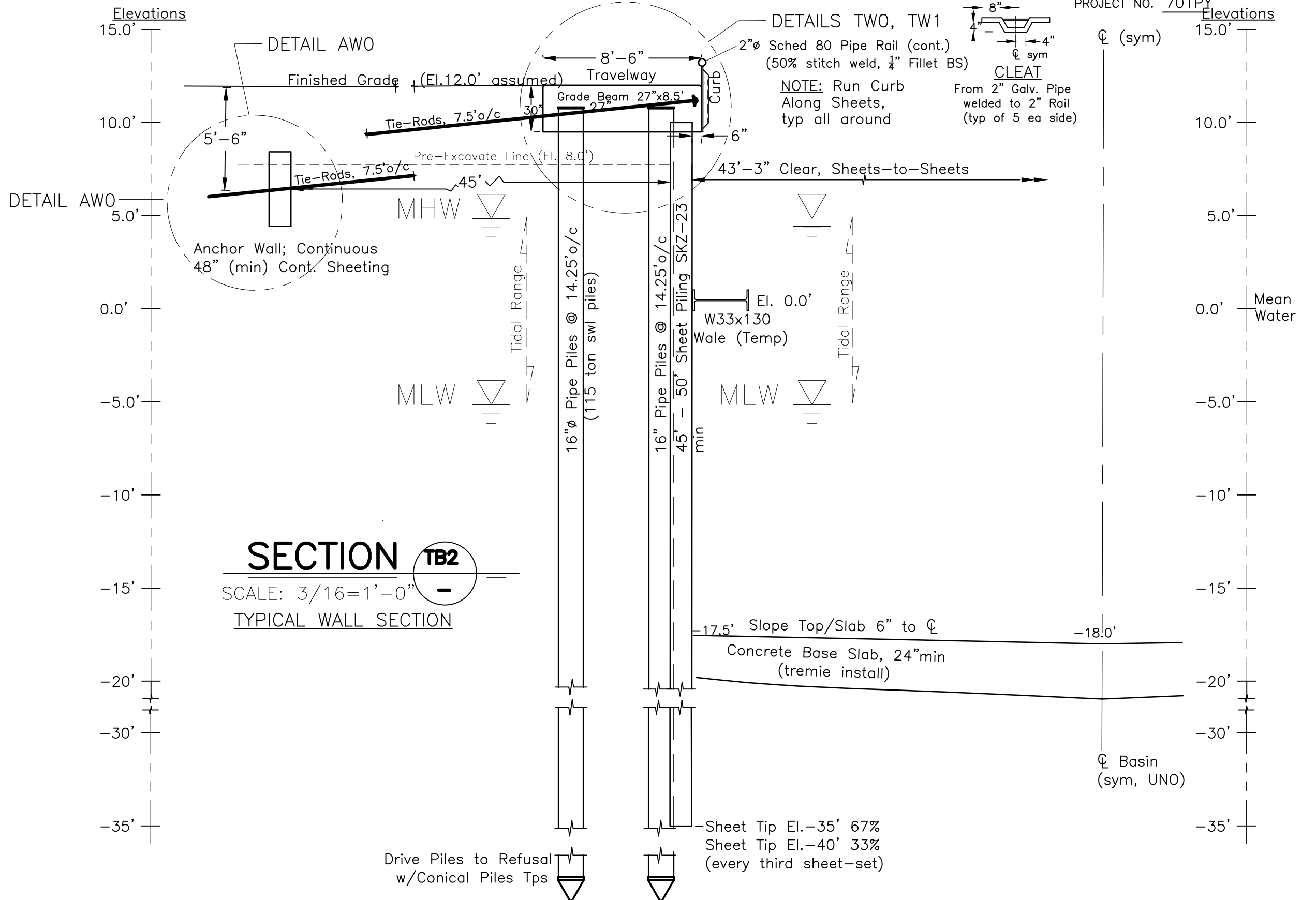
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SHEET: 3 OF 9999

PROJECT NO. 701PY



PROJECT: CANAL LANDING, LLC (PORTLAND YACHT)
 SUBJECT: TRAVEL-LIFT BASIN
 ITEM: COFFER FRAME DETAILS, CLOSURE DETAILS

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 PROJECT NO. 701PY

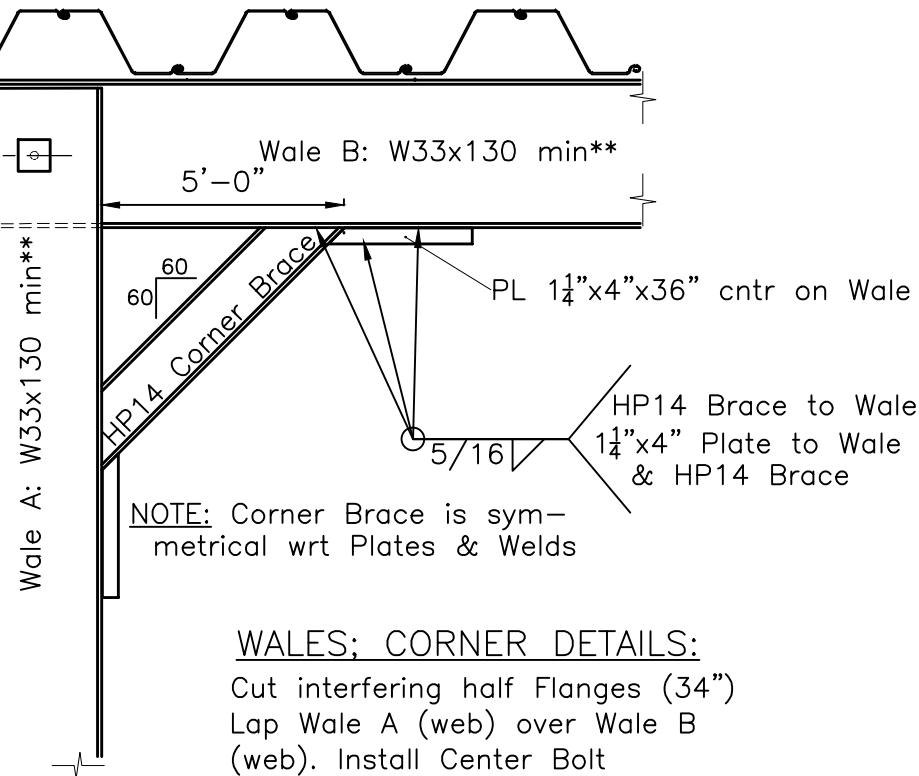
NOTE: Interlock Sheets
 @ Corners typ

☐ Cntr Bolt
 (1 1/2" ∅ Grade 5 X-Bolt
 8x8 1/2" Pl Wshrs
 Hvy Flats & Dbl Nuts)

PLAN

FCO

SCALE: 1/4" = 1'-0"
 Cofferdam Frame
 (Corner Details)



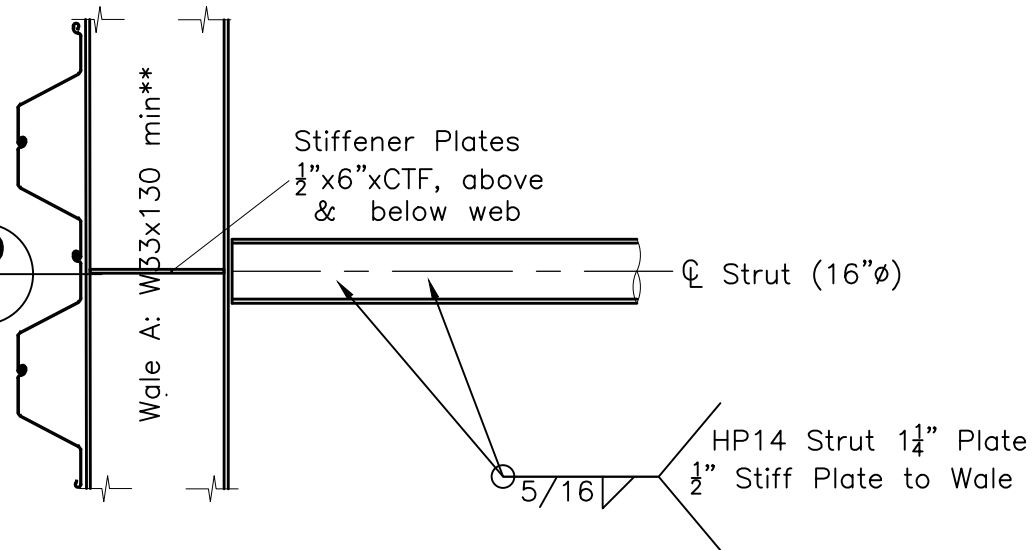
NOTE: Corner Brace is sym-
 metrical wrt Plates & Welds

WALES; CORNER DETAILS:
 Cut interfering half Flanges (3/4")
 Lap Wale A (web) over Wale B
 (web). Install Center Bolt

PLAN

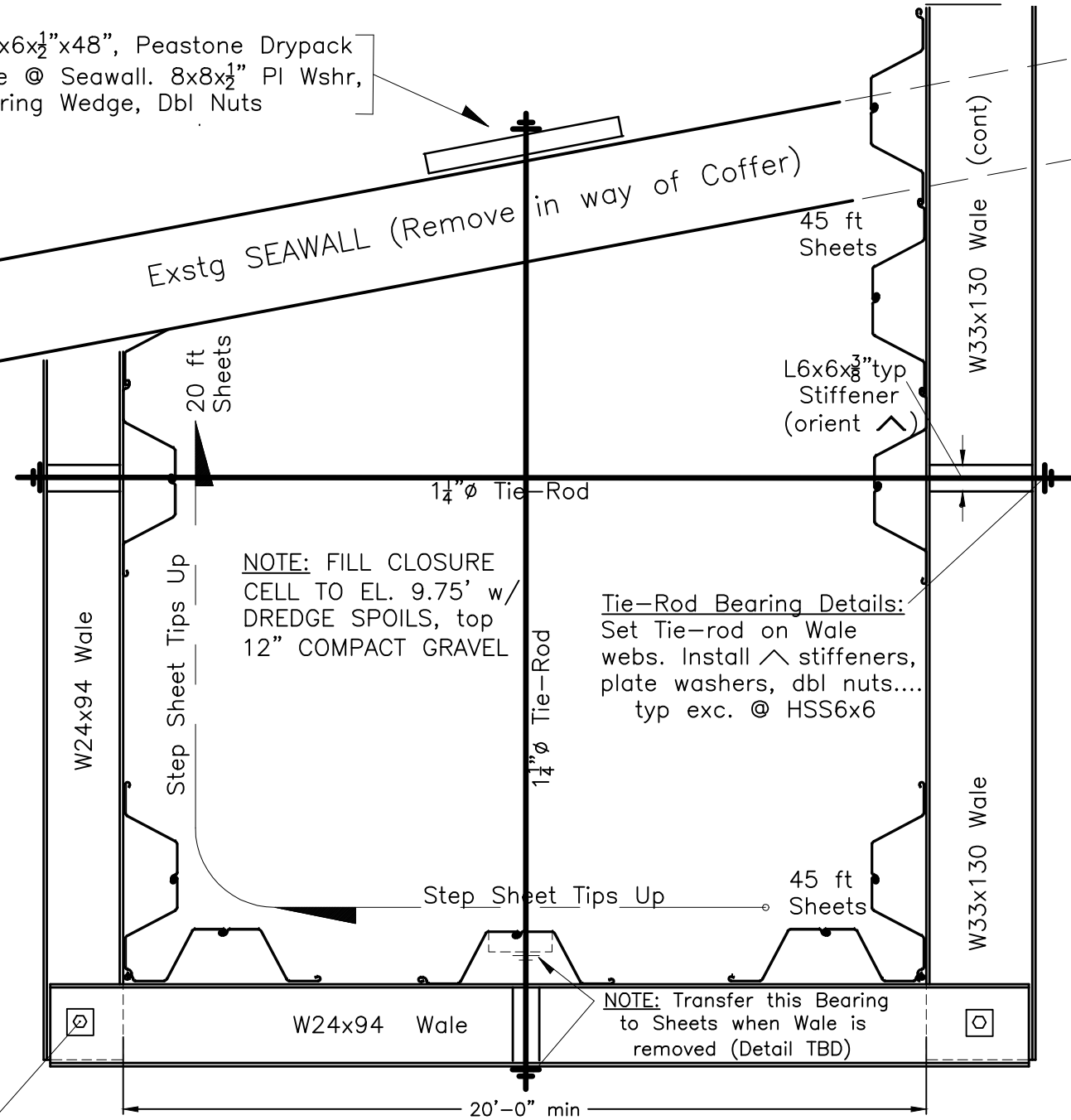
FSO

SCALE: 1/4" = 1'-0"
 Cofferdam Frame
 Details @ Struts



HSS10x6x1/2"x48", Peastone Drypack
 space @ Seawall. 8x8x1/2" Pl Wshr,
 Bearing Wedge, Dbl Nuts

Exstg SEAWALL (Remove in way of Cofferdam)



See PLAN FCO for
 Corner Details
 (exc. no corner brace)

PLAN

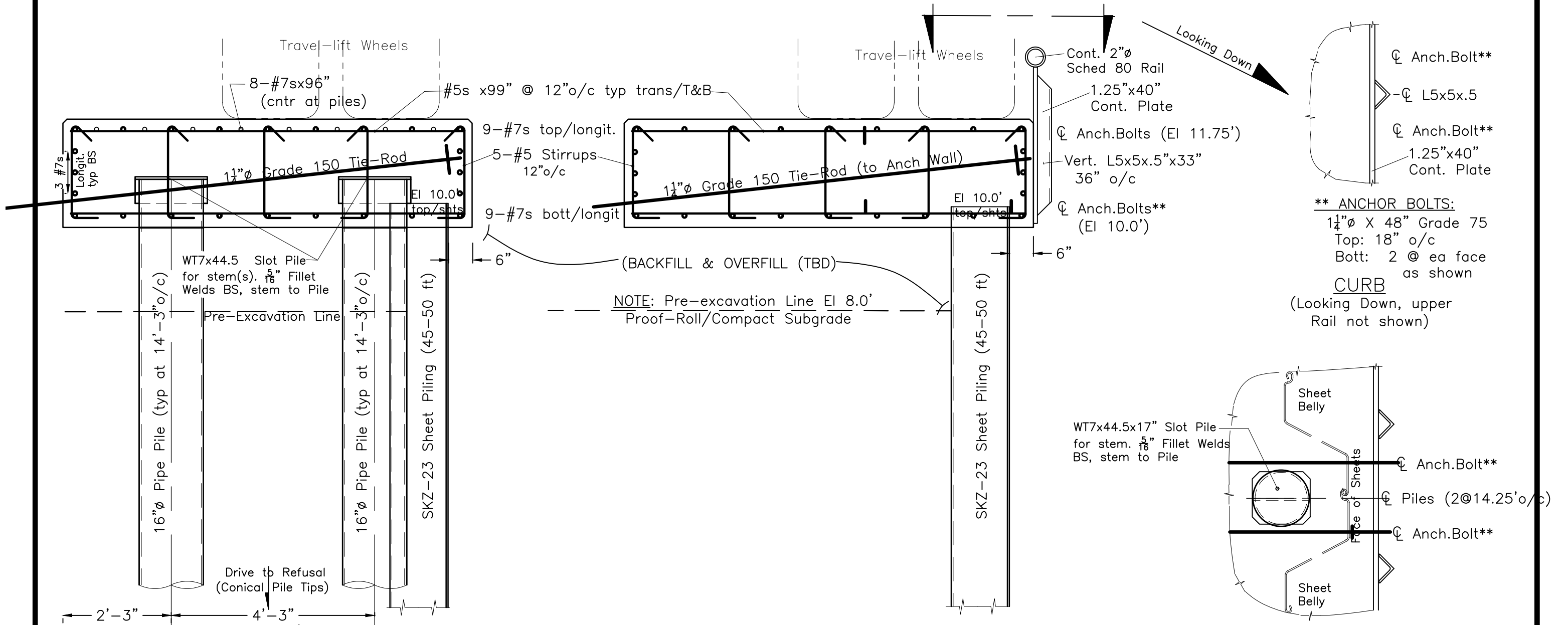
CCO

SCALE: 1/4" = 1'-0"
 (West side is Shown, East side is similar)
 COFFERDAM CLOSURE CELL DETAILS

PROJECT: CANAL LANDING, LLC (PORTLAND YACHT)
 SUBJECT: TRAVEL-LIFT BASIN
 ITEM: TRAVELWAY, CURB, PILES, ANCHOR DETAILS

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 PROJECT NO. 701PY



DETAIL TWO

SCALE: 3/16=1'-0"
 TYPICAL @ Piles
 (Curb Not Shown)

DETAIL TW1

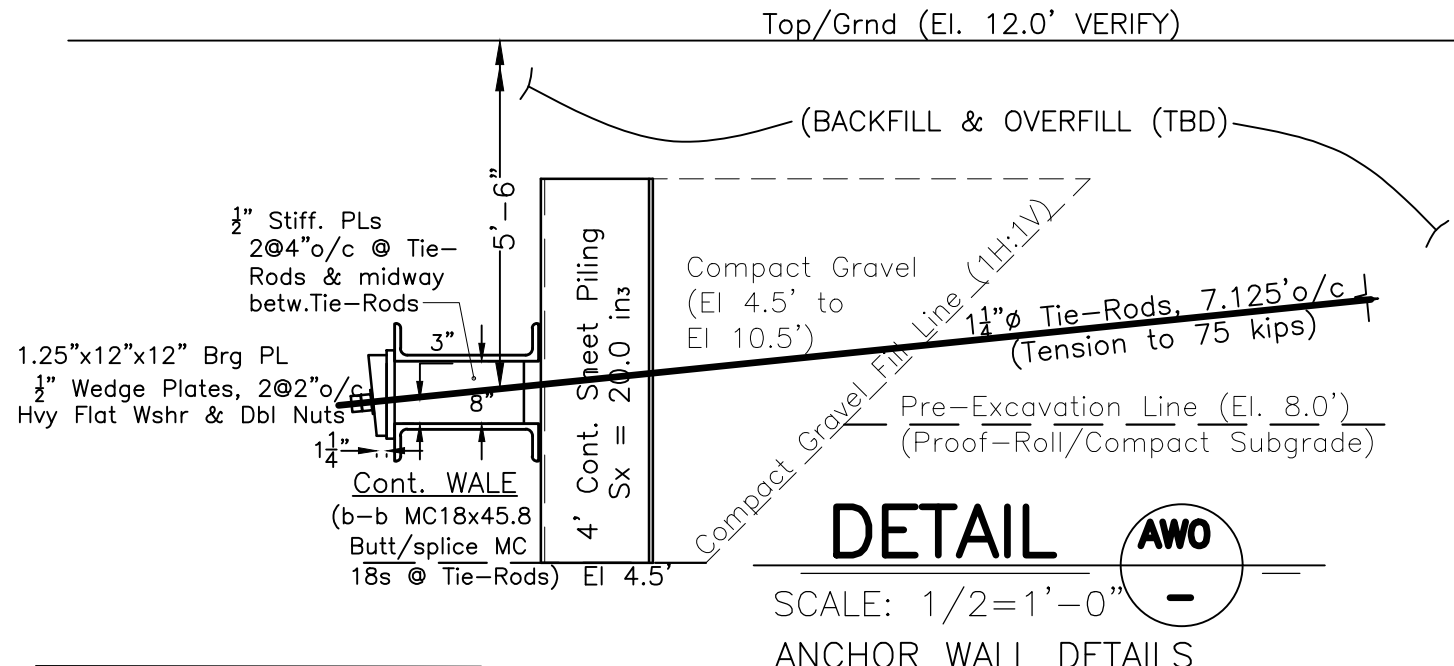
SCALE: 3/16=1'-0"
 TYPICAL Betw. Piles

SHEET ANCHORS
 (Looking Down, lower)

PROJECT: CANAL LANDING, LLC (PORTLAND YACHT)
 SUBJECT: TRAVEL-LIFT BASIN
 ITEM: ANCHOR WALL, NOTES, COMPLIANCE, MATERIALS

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DATE: 12/20/17
 BY: RG
 SHEET: 6 OF 9999
 PROJECT NO. 701PY



MATERIALS:

Steel Plates & Shapes: ASTM A572 Grade 50, new or good-condition used steel. Exposed (permanent) Steel & Hardware Hot-Dip Galvanized. Temporary Steel may be ASTM A36, uncoated.

Welding: E70xx Electrodes, AWS D1.1 Procedures, Certified Welders.

Sheetpiling: ASTM A572 Grade 50, new or good-condition used sheets. Skyline (brand) SKZ-23 or pre-approved equal. Interlock all corners. Epoxy-coat top 20 ft of exterior face (only) Install zinc blocks at locations shown & as detailed.

Bearing (Pipe) Piles: 14"Øx1/2" or 16"Øx3/8" spiral-weld pipe (ASTM A252, grade 1 min), Uncoated. Welded Conical Tips. F.S. (Resistance/Working Load > 1.50)

Gravel MeDOT Type C Base Aggregate (MeDOT Spec.103.06, Type C); Compact in 6" lifts to 95% ASTM D1557.

Concrete (Underwater): Me DOT Standard Specification for underwater (tremie-placed Structural Concrete, 4500 psi min.

Curb Rail, Cleats, Anchor Bolts, Nuts, Washers, Plate Washers...: ASTM A572 Grade 50 (min) Hot-dip galvanized (ASTM A153).

Tie-Rods: ASTM, A722 Grade 150, Hot-dip Galvanized incl. Nuts, Plate Washers, Hardware. ASTM A153. Pre-Tension to 75 kips.

Sheet-piling for Anchor Wall: New or Used, uncoated sheet-piling (Sx>20.0 in3).

Concrete: 4000 psi 28-day Compressive Strength, 4" max Slump, 5%-7% Entrained Air. Sample & Test Concrete according to respective ASTM Standards for Slump, Air, and Strength. Sampling & Testing shall be by an independent accredited agency. Make 4 Test Cylinders from the first Truck & 1/3rd (random trucks, selected by the Engineer) Trucks. Break one cylinder at 7 days, 14 days, and 28 days respectively Report Results of Sampling & Testing to the Engineer.

Reinforcing Bars: ASTM A615 Grade 60 Deformed Bars. Fabrication shall comply with ACI 315.

NOTES:

Work These Plans with Project Civil Plans. Refer to Civil Plans for Layout, Dimensions, Details...not shown herein. Refer to S.W.Cole Report for Soils Information

Report any discrepancies within these Plans, between these Plans and Civil Plans, or between these Plans and existing conditions. Do not proceed with dependent work until discrepancies have been resolved.

Do not substitute Materials or modify Details without prior approval from the Engineer. Consult the Engineer with Detail Questions and for Details not addressed herein. Submit Value-Engineering Proposals for Engineer Consideration.

Pre-excavate the general area (boundaries shown) to El. 8.0', El. 4.5' at Anchor Walls Backfill on Basin-side of Anchor Walls must be Compact Gravel (see Spec.).

Default Specification: Maine DOT Standard Specifications for Highways & Bridges (latest)

Engineer Inspections: As required by IBC Building Code, Chapter 17. Engineer shall provide Contractor with a list of specific milestone & recurring Engineer Inspections. Contractor shall provide Engineer at least 48 hours advanced notice of inspection readiness. Contractor shall not 'cover' inspected work until Engineer so authorizes.

COMPLIANCE:

Submit Manufacturer (or Fabricator) Certificates or other acceptable evidence of Material Compliance with Specifications. Submit compliance Documentation for Sheetpiling, Steel Plates & Shapes, Pipe Piles (& Struts), Pile-Driver & Driving Criteria, Gravel, Concrete & Reinforcing Bars, Tie-Rods & Hardware, Anchor-Bolts & Hardware, Galvanizing & Epoxy-Coatings, Concrete Sampling & Testing, Reinforcing Shop Drawings....