

**ROCK HARBOR COMMERCIAL WHARF IMPROVEMENTS
TOWNS OF ORLEANS, MA
ADDENDUM #3**

AWARDING AUTHORITY: Town of Orleans

PROJECT: Rock Harbor Commercial Wharf Improvements

DATE: March 22, 2024

TO: All Bidders

CONSULTING ENGINEER: Foth Infrastructure & Environment, LLC
15 Creek Road, Marion, MA 02738

The following items shall modify or be added to the Contract Documents. This Addendum forms part of the Contract Documents and modifies the original bidding documents. Portions of the Contract Documents not altered by this Addendum remain in full force.

This Addendum forms part of the Contract Documents and as such, **ALL BIDDERS SHOULD ACKNOWLEDGE IT IN THE "BID PROPOSAL". FAILURE TO DO SO COULD RESULT IN THE REJECTION OF YOUR BID.**

Notice is hereby given to any and all plan holders of record with the Owner for the project herein captioned "**Rock Harbor Commercial Wharf Improvements**", Owner of record being the Town of Orleans, of the following amendments to the Contract:

I. CONTRACT DOCUMENTS

1. SECTION 004000 BID

REPLACE "Exhibit A" to Bid – Bid Schedule (pages 004000-3 through 004000-5) with the revised bid schedule attached herein.

2. SECTION 007010 SUPPLEMENTAL CONDITIONS
Section 1.11 Guarantee

Item A. shall be **REVISED** to **DELETE** the language struck out as shown below:

- A.** The Contractor shall guarantee to the Owner all materials and workmanship against original defects, or against injury from proper and usual wear when used for the purpose intended, for one (1) year of final payment certifications. ~~and shall maintain all items in perfect condition during the period of guarantee.~~

Item B. shall be **REVISED** to **DELETE** the language struck out as shown below:

- B.** Defects appearing during the period of guarantee shall be made good by the Contractor at his expense upon demand of the Owner. ~~it being required that all work shall be in perfect condition when the period of guarantee shall have elapsed.~~ In the event of default by the Contractor, the Company shall have the right to make good any and all defects and bill the Contractor cost plus 15% for administration fees.

3. SECTION 010100 SUMMARY OF WORK

PART 1 - GENERAL

Section 1.5 Sequencing and Scheduling

Item A. Mandatory Schedule Milestone

DELETE the following: A Project Schedule must be prepared and submitted by the Contractor with the bid.

4. SECTION 010250 MEASUREMENT & PAYMENT

PART 1 - GENERAL

Item 4. Bid Items: **ADD** the following:

BID ITEM NO. 24 – POLICE DETAIL

A. WORK COVERED BY CONTRACT PRICE

1. This item includes all costs associated with the miscellaneous police details/detours which may be required to complete work for the Rock Harbor Commercial Wharf Improvement Project.

B. MEASUREMENT

1. Unit of Measure – ALLOWANCE; measurement of actual police detail will be hourly.
2. This item will be measured as HOURLY to include compensation for the actual hours of police detail required.
3. Payment will be made for costs associated with the police detail based on actual costs for this detail.
4. Payment will be made for costs associated with this bid item including all incidental work described in the specifications and contract documents.

5. SECTION 099713 COATING OF STEEL WATERFRONT STRUCTURES

PART 2 – PRODUCTS

Section 2.1 Epoxy Coating

Item C. shall be **REVISED** as follows:

- C. Epoxy coating field touch-up material shall be identical to factory coating specified in paragraphs 2.1 A **AND 2.1 B** above.

Item D. shall be **REVISED** follows:

- D. The topcoat color for all surfaces is to be black **WITH THE EXCEPTION OF STEEL PIPE PILES WHICH SHALL BE GREEN.**

PART 3 – EXECUTION

Section 3.2 Protective Coating Application

Item A. shall be **REVISED** as follows:

The protective coating shall be installed in strict accordance with manufacturers written instructions. **BAR RUST 235** coating is to be applied in two coats to achieve a minimum overall dry film thickness

(DFT) of 15 mils. FUSION BONDED EPOXY (FBE) COATING IS TO BE APPLIED AS A SINGLE COAT WHICH MUST HAVE A MINIMUM DFT OF 15 MILS.

6. ATTACHMENT B - DRAWINGS

The drawings entitled: *Rock Harbor Commercial Wharf Improvements*, Town of Orleans, Massachusetts, Department of Public Works; Issued for Bid on 03/08/2024 (57 total sheets, including cover sheet) shall be **REVISED** as shown on the attached sheets listed below.

Sheet G-002	Notes
Sheet G-003	Notes, Legends and Abbreviations
Sheet C-102	Demolition Plan 1 of 2
Sheet C-103	Demolition Plan 2 of 2
Sheet C-201	Site Plan 1 of 2
Sheet C-202	Site Plan 2 of 2
Sheet C-203	Layout Plan 1 of 2
Sheet C-204	Layout Plan 2 of 2
Sheet C-701	Standard Civil Details
Sheet C-707	Pumpout Station Details
Sheet S-504	Section Views 4 of 4
Sheet S-701	Structural Details 1 of 8
Sheet S-702	Structural Details 2 of 8
Sheet S-703	Structural Details 3 of 8

II. RESPONSES TO BIDDER QUESTIONS

1. *Who is responsible for the cost of the police details?*

RESPONSE: See **Bid Item No. 24 – POLICE DETAIL** which has been added to the Bid Schedule (see revised *Exhibit A to Bid* attached herein) and Section 010250, Measurement and Payment.

2. *Referring to Drawing G-003, Pile driving note 6 states “lengths shown on drawings are considered average values, and the actual length may vary when so accepted by the engineer of record.” The drawing does not call out the length or tip elevation for the 24” steel pipe pile. Please advise.*

RESPONSE: The 24-inch steel pipe piles shall be installed to achieve a 275-ton ultimate capacity. Refer to sheet G-002, Design Criteria note #7 & sheets C-203 & C-204 for pile information. The Contractor shall assume a pile length of 75 feet to achieve the required ultimate capacity.

3. *The provided geotechnical boring (i.e. LB1, LB2, LB3, LB4, LB5, RH-2003-B1, RH-2003-B2) information is not deep enough for the Contractor to determine the pile tip elevation to achieve the 275-ton ultimate capacity of the 24-inch diameter steel pipe pile. Please provide deeper borings, provide the estimated pile tip elevation of 24-inch diameter steel pipe piles for bidding purposes or change the unit of measurement of the bid item 8 from each (EA) to vertical foot (VF).*

RESPONSE: The Contractor shall assume a pile length of 75 feet to achieve the required 270-ton ultimate capacity for all steel pipe piles.

4. *Please provide estimated tip elevation for the 12-inch diameter timber piles at timber pile support town pier.*

RESPONSE: The Contractor shall assume a pile length of 50 feet to achieve the required 11-ton ultimate capacity for all plumb (vertical) timber piles and 6-ton ultimate capacity for battered timber piles for reconstruction of the Town Pier.

5. *Please provide estimated tip elevation for the 12-inch diameter timber piles at timber pile support Commercial landing pier.*

RESPONSE: The Contractor shall assume a pile length of 50 feet to achieve the required 11-ton ultimate capacity for all plumb (vertical) timber piles and 6-ton ultimate capacity for battered timber piles for the Commercial Landing Pier.

6. *Drawing S-703 shows sacrificial anodes for the steel sheeting bulkhead. Please confirm there are no anodes for the 24-inch diameter steel pipe pile.*

RESPONSE: No anodes are required for the 24-inch steel pipe piles.

7. *Specification section 028100 transportation and disposal part 1.1 A specifies "Contractor shall properly transport and dispose of all items, including solid hazardous and non-hazardous wastes removed from the site, to appropriate disposal facilities." MADEP Chapter 401 listed a few upland disposed sites and it does not listed any hazardous disposal facilities. There is a major difference in cost between non-hazardous soil and hazardous soil. In the event that hazardous soil is encountered, please confirm it will be paid under extra work.*

RESPONSE: The 401 Water Quality Certification issued by MADEP for the proposed project regulates the on-site beneficial reuse and offsite disposal of only the "soil" that is required to be excavated up to a maximum allowable depth of -4.0 feet MLW within the area located 20-feet landward of the existing bulkhead as shown on the Contract Drawings. Should the Contractor need to dispose of any "soil" outside of this specific area, then it must be at an off-site facility that authorized to receive such material. If hazardous "soil" is encountered, the Contractor is required to immediately report this condition to the Owner and Project Engineer for further direction. Any costs associated with the handling/removal of hazardous soil from the project site will be considered additional work for which payment will be made through a negotiated change order to the contract price.

8. *Please confirm that there is no corrosion inhibitor admixture required for the cast-in-place concrete work.*

RESPONSE: No corrosion inhibitor admixture is required.

9. *Drawing S-504 PC Cap Connection Detail calls for "Countersunk 2-inch diameter ASTM F1554 galv. 36ksi threaded rod with double nut" Please confirm the threaded rods are galvanized not stainless steel.*

RESPONSE: The 2-inch diameter ASTM F1554 threaded rods are to be galvanized.

10. *Referring to drawing S-504 Pile reinforcement detail, are there any rebar coupler terminators at the top of the #8 bars that come out of the steel pipe pile?*

RESPONSE: The reinforcement cage for the steel pipe piles must use headed reinforcement as show on the Pile Plug Detail on S-504.

11. *Referring to drawing S-702 Gantry Beam Detail, please clarify who is responsible to furnish and install the winch and the hook above the winch?*

RESPONSE: The Contractor is responsible for furnishing and installing the beam, angle bracing, eye bolt, and hook. Rigging below the eyebolt will be provided by Owner as shown on the drawing.

12. *Is there a grout joint or deck Panel shear key in between the precast deck planks? If so, please provide detail for the grout joint in between precast deck planks.*

RESPONSE: See Precast Plank Joint Detail added to sheet S-504 attached herein.

13. *Referring to drawing S-702, detail A shows the 2" C900 PVC water service with 4" PVC Sleeve on 8x12 CCA treated timber chock. Is the 2" C900 PVC water pipe or 4" PVC sleeve required insulated?*

RESPONSE: Neither the 2-inch C900 PVC water pipe or 4-inch PVC sleeve are required to be insulated.

14. *Specification section 004000 part 1.07 of Bid form specified The Construction Schedule will be requested upon the award of the Contract. Specification section 00700 part 1.09 specified "A Project schedule will be required for this project and is to be forwarded in writing to the Project Engineer five (5) days after the Notice to proceed..." Specification section 010100 Part 1.5 A specified "A Project Schedule must be prepared and submitted by the Contractor with the bid." Please advise which one is correct.*

RESPONSE: As per Section 004000, Bid, Part 1.07, the Contractor shall describe in as much detail as possible how work is intended to proceed and demonstrate that all required work under the Contract can be completed within the timeframe that has been allotted for construction. The Contractor that is selected as the lowest qualified bidder will be required to submit a formal schedule within five (5) days after the issuance of a Notice to Proceed (NTP) in accordance with Section 00700 part 1.09. Project schedule requirements as per Section 010100 Part 1.5 A. have been deleted.

15. *We refer to the drawing C-104 section B calls for the existing steel sheet pile bulkhead to be removed. In the event that existing steel sheet piles deteriorate and cannot be removed. Is it acceptable that the Contractor cut the existing sheet piles below the mud line?*

RESPONSE: In the case that existing sheet pilings cannot be removed in their entirety, the Contractor shall report the change in condition to the Project Engineer for further direction. For bidding purposes, the Contractor shall assume that all existing sheet piles can be extracted in their entirety.

16. *Please provide detail or thickness for the concrete sidewalk and stamp concrete public landing.*

RESPONSE: The concrete sidewalk shall have a thickness of 6-inches and include reinforcement as shown on typical section "H" on sheet S-703. The thickness for the stamped concrete public landing varies and shall match the slope & grades indicated on sheet C-208. Additionally, see section "B" on sheet S-501.

17. *Drawing C-202 shows some fence & gate at the relocated pump station location. Please advise whether this is a new timber fence. If so, please provide details of this timber fence & gate.*

RESPONSE: See sheet C-707 attached herein for new timber fence and gate detail.

18. *Drawing G-002 & C-203 provided minimum tip elevation of the timber berth piles, what is the cutoff elevation of the timber berth piles?*

RESPONSE: Cutoff elevation of the timber berth piles shall be EL. +23.00' MLW.

19. *Drawing G-002& C-203 provided minimum tip elevation of the timber float piles, what is the cutoff elevation of the timber float piles?*

RESPONSE:

Cutoff elevation of the Northern Dock float, gantry, and berthing piles shall be EL. +23.00 MLW.
Cut off elevation of the South Dock berthing piles shall be EL. +23.00 MLW.
Cutoff elevation of the South Dock timber fender piles along bulkhead be EL. +17.50' MLW and EL. +16.30 along the Commerical Wharf.

20. *Reading through the drawings for the project, I noticed that you guys are asking for Timber floating dock systems. Here at AccuDock, we manufacture marine grade aluminum framed floating docks with closed cell foam incapsulated in hand welded HDPE plastic and decked with Wolf PVC decking. I've attached our specifications and a few brochures for reference. Would you consider us an approved equal?*

RESPONSE: The Contractor can propose the use of aluminum floats as a substitution after award.

21. *Please provide details on the site lighting poles and fixtures. The specifications have details on the shore power equipment and the bulkhead mount lights but no information on the pole mount lights.*

RESPONSE: See response to question # 74 below.

22. *Please provide details on the New fuel system electrical panel located in the fuel shed.*

RESPONSE: Panel shall be 80 amps and meet National Electric Code (NEC).

23. *Does a construction schedule need to be submitted with the bid and if so, is it considered a mandatory bid submission requirement?*

RESPONSE: See Response to Question #14 above.

24. *Do certificates of insurance for the Contractor and all listed subcontractors have to be submitted with the bid?*

RESPONSE: No.

25. *Will the Contractor be required to provide All-Risk / Builder's Risk insurance coverage for the project?*

RESPONSE: Yes.

26. *Please clarify the requirements for hardware on the timber piers. The plans and specifications conflict with respect to utilizing stainless steel hardware for all MCA treated timber yet details calling out galvanized bolts for MCA treated timber.*

RESPONSE: Hardware used to connect CCA treated timber, including bolts, nuts and washers, etc., shall be hot dip galvanized steel. Galvanizing shall conform to the requirements of ASTM A153. Hardware and fasteners used to connect MCA treated timber including bolts, nuts and washers, etc., shall be grade 316 stainless steel. Hardware shall provide a flush finish where applicable.

27. *Please clarify the requirements for the timber grade for treated timber. The specifications conflict with respect to all timber being #1 grade vs. #2 or better grade.*

RESPONSE: Timber grade #1 or better shall be used for all timber construction.

28. *Is the pipe pile test pile program to be completed ahead of ordering production piles or during the driving of production piles?*

RESPONSE: Pile testing shall be performed on production piles to be specified by the Project Engineer.

29. *Please remove the pressure treated timber pier piles from the scope of work covered by the line item for the timber pier(s) and put the piles in their own line item.*

RESPONSE: Timber piles shall be included in per square foot (SF) cost for Bid Item No. 10 - Furnish and Install Timber Town Pier and Bid Item No. 11 - Furnish and Install Commercial Landing Pier.

30. *Where borings were not taken beyond elevation -45' +/-, and given the required relatively high ultimate pile capacities, it is near impossible for Contractors to determine estimated pile lengths. Please provide an estimated tip elevation for piles that are currently specified only with an ultimate capacity (timber & pipe piles). Alternatively, if no estimated tip elevation will be provided, please change the unit of measurement for piles required to meet an ultimate capacity from per each to per linear foot and add a per each line item for field splices.*

RESPONSE: See response provided to Questions #2 - #5 above.

31. *Please review the duration of time afforded the Contractor for completion of the project as noted in Article 1 of the Agreement, section 05000. The duration conflicts with the dates provided elsewhere in the contract documents.*

RESPONSE: Article 1 is written correctly.

32. *Will the Contractor be allowed to utilize a vibratory hammer to install piles that are scheduled to be driven to an ultimate capacity provided the Contractor proofs each pile with an impact hammer to confirm the required pile capacity has been achieved?*

RESPONSE: Yes, this installation methodology is acceptable.

33. *What capacity, relative to the specified ultimate capacity, will the Contractor be required to drive piles that are specified as being required to achieve an ultimate capacity? (i.e. 2 x ultimate capacity, ½ x ultimate capacity, etc.).*

RESPONSE: Steel piles must be driven to an ultimate capacity times a factor of 1.0.

34. *Currently the timber fender system is included in the line item for fender, float and tie-off piles and the line item utilizes a per each unit of measurement. Please consider creating a line item for the timber fender system and removing it from the line item for fender, float and tie-off piles.*

RESPONSE: Timber fender system shall be included in per each (EA) cost for Bid Item No. 13.

35. *Where the exact quantity of material that is required to be dredged is not known, please consider adding a per cubic yard line item for dredging, transport and disposal of the sediment to be dredged.*

RESPONSE: See response provided to Question #7 above. An estimated volume is provided on sheet C-208. Costs associated with this activity shall be included under Bid Item No. 3 – Demolition, Removal and Disposal.

36. *Where the exact quantity of rip rap that is required to be removed, relocated and/or hauled off-site is not known, please consider adding a per cubic yard line item for the rip rap work.*

RESPONSE: Costs shall be included under Bid Item No. 3 – Demolition, Removal and Disposal.

37. *Will the Contractor be required to complete a pre & post dredge survey for the dredging?*

RESPONSE: The Contractor is required to perform an as-built survey of the upland work completed. The Owner will perform confirmatory survey of within the area where material is excavated from behind the existing bulkhead to 20-feet landward to the face of the new replacement structure to confirm the Contractor has achieved a minimum mudline depth of -3.0' MLW.

38. *Will the Contractor or owner be responsible for onsite testing (concrete, soil, asphalt, etc.)?*

RESPONSE: The Contractor shall be responsible for meeting onsite testing requirements.

39. *Reference specification section 99713, section 3.1.A. Commercial coaters typically utilize a shot mix that includes both steel shot and grit, in compliance with classification society requirements to achieve required profiles prior to coating. A requirement to utilize only grit, without any steel shot, may result in no coaters being willing to quote the job. Please clarify if the wording in this section is intended to mean that the shot mix must have no steel shot in it or if the mix may have shot provided the mix achieves the required performance criteria for surface profile prior to coating.*

RESPONSE: Surfaces shall be cleaned to a Near-White Metal Blast Cleaning per SSPC-SP-10. The SSPC-SP10 definition of a near-white metal blast clean requires the surface to be free of all visible oil, grease, dust, dirt, mill scale, rust, coating, oxides, corrosion products, and other foreign matter when viewed without magnification. The standard also provides requirements for random staining on the surface which shall not exceed five percent of each unit area of surface. The surface shall be cleaned of oil, grease, and dust after the near-white metal blasting procedure. The mix may have a steel shot if it achieves the required performance criteria.

40. *Reference specification section 310519.13, section 2.3.D. Is the intent of this section that the Contractor is responsible for completing independent testing of the filter fabric, in the field, even if the filter fabric is a commercially manufactured product that has been factory tested and meets the criteria specified in the specifications?*

RESPONSE: The intent of this section is to provide the data or results of the factory testing indicating that it meets the criteria specified in the specifications and is in accordance with ASTM D5101.

41. *Where it is not anticipated that pipe and timber bearing piles will reach refusal on ledge, please confirm that neither pile type requires a driving shoe.*

RESPONSE: Timber piles do not require a driving shoe. Steel pipe piles require a driving shoe.

42. *Do steel pipe piles need to be fitted with an end plate or closed driving point so that they are driven closed? If so, which end treatment should be utilized and if a plate, what is the required thickness of the plate?*

RESPONSE: Steel pipe piles shall be driven open-ended and require a driving shoe.

43. *Reference specification section 316216.13, section 3.6.C. Is the Contractor required to have an independent inspector onsite at all times while pipe piles are being driven?*

RESPONSE: The independent inspector and certification is for the fielding splicing of piles. The Contractor is not required to have an independent inspector on site for the entire duration of the production pile installation.

44. *Reference specification section 331000, sections 1.2.D and 1.6.C. Are the PE stamped drawings and engineer referenced in these sections the contract drawings and project engineer or a separate set of drawings and engineer that the Contractor is responsible for developing and providing?*

RESPONSE: Specification Section 331000, Section 1.2.D refers to the Contract Drawings and Project Engineer. Specification Section 331000, Section 1.6.C pertains to the Contractor providing stamped as-builts at the end of construction.

45. *Reference specification section 355113.23, section 2.3.A.4. It is very difficult, and costly if even possible, to find a kiln drier who will dry pressure treated timber after treatment. Please remove this requirement from the project.*

RESPONSE: This request will be considered on a case-by-case basis.

46. *Reference specification section 15607, section Part 2.3.A. For the purpose of its bid, can the Contractor assume that soils and debris removed as part of the underground fuel tank removal are not considered hazardous waste?*

RESPONSE: See Response to Question #7 above.

47. *Please confirm that despite not including language to the same, section 17.2, the USACE permit allows in-water work to occur during the time of year restriction if adequate containment structures (i.e. silt curtain) are in-place prior to the time of year restriction starting.*

RESPONSE: Foth has confirmed with USACE that in water work will be allowed as long as adequate containment structures (i.e. silt curtain) are installed prior to the start of the winter flounder Time of Year (TOY) restriction which begins on February 1st.

48. *Reference the Order of Conditions with DEP file number 54-2618, special condition 1. Is the Contractor required to develop and submit a planting and restoration plan or has that requirement already been met by the project engineer? If the Contractor is required to submit the plan, how will the Contractor be compensated for work included in the plan that is not currently included in the contract documents?*

RESPONSE: No. This requirement is not applicable to the Commercial Wharf Improvement project.

49. *Reference drawing G-002, note "Cathodic Protection #3". Does the testing specified herein need to be completed by an independent third party or can it be completed by the Contractor?*

RESPONSE: Testing of cathodic protection system must be performed by an independent agency.

50. *Is there a requirement for continuity welding of the sheet piles as part of the cathodic protection system?*

RESPONSE: It is customary to weld sheet piles the top 6 inches for continuity.

51. *Reference drawing G-002, note "General Conditions #23". Where the facility will be in use by the public following completion by the Contractor, it is not realistic to expect that the Contractor will maintain the facility in "perfect condition" for the duration of the one year warranty. Please revise the wording in this*

section to state that the Contractor is not responsible for restoring normal wear and tear to the facility during the warranty period.

RESPONSE: General Condition No. 23 has been revised. See Sheet G-002.

52. Reference drawing G-003, note "Timber Floats #4". Please confirm that 2" galvanized deck screws are the intended length and material composition of the screws intended to secure the decking on the timber float.

RESPONSE: Float decking shall be MCA and screws shall be 2" stainless steel.

53. Reference drawing S-504, "Pile Plug Detail", note 4. Are the pile plug plates that the Contractor is responsible for have a PE design intended to be structural plates or simply temporary form plates to support the weight of the concrete plug until it reaches design strength?

RESPONSE: See sheet S-504 attached for revised note with reference to PE requirement removed. The plug plate shall be sized as shown on the drawing, but the installation means and methods will be the responsibility of the Contractor. The intent of the plug plate is a bottom form for temporary support of the concrete during installation of the pile plug.

54. Please provide details for the new fuel shed called out on Web Engineering drawing A-1.

RESPONSE: The fuel shed is a pre-fabricated timber-framed structure approximately 8' x 8' in size and provided by Owner. The Contractor will be required to temporarily relocate this structure and reinstall at the location shown on the Contract Drawings (see sheet C-202).

55. Could you clarify for us the preferred south floating dock segment length that you would prefer that makes up the 150 ft span at this location.

RESPONSE: Refer to the Contract Drawings Sheets C-203 & C-204.

56. Is the berth timber pile required fiberglass cap? yes If so, please provide detail (i.e. is it a conical cap or flat cap per drawing S-701?)

RESPONSE: Timber berthing piles require a flat fiberglass cap. This cap shall consist of a white, heat-fused fiberglass wrap.

57. Is the floating timber pile required fiberglass cap? If so, please provide detail (i.e. is it a conical cap or flat cap per drawing S-701?)

RESPONSE: See response to Question #56 above.

58. Is the Jib Crane rotation motorized or manual.

RESPONSE: The jib crane is electric/motorized.

59. Does the Jib Hoist require a motorized or manual trolley.

RESPONSE: The jib crane requires an electric/motorized trolley.

60. Drawing C-201 shows 2 each timber pile and timber beam for the gantry crane. Please advise under which bid item to pay for the gantry beam timber piles and gantry timber beam.

RESPONSE: Timber piles for the gantry shall be counted under the berthing, float, and fender pile line item. The gantry beam shall be included in the cost per each (EA) cost for Bid Item No. 13.

61. Drawing C-201 call typical of 26 each of 12inch CCA Treated timber piles @ Town Pier, there is only 25 each count, please advise which one is correct.

RESPONSE: The call out on the plans for the both the timber pier plumb piles and timber pier batter piles are intended to cover both the Town Pier and the Town Landing. A total of 26 plumb piles are to installed at both locations and a total of 9 battered piles are to installed at both locations. The 2 fender piles on the face of each pier shall be greenhearts and counted in the fender pile quantity.

62. Drawing C-706 calls for the Town of Orleans Water Meter. Is the Town of Orleans furnishing the water pit to the Contractor at no cost to the Contractor?

RESPONSE: The Contractor is to provide the water meter pit and apply with the Town of Orleans Water Department for the installation of a water meter (\$80 fee). The water meter that meets the Town of Orleans Water Department standards will be provided by the Town at the Contractor's expense. See Town of Orleans water services installation regulations for more information.

63. Specification section 316216 Steel Pipe Piles PART 3.1 EQUIPMENT paragraph B states "Rig the pile driver with fixed leads to guide the hammer from highest to lowest point of travel in a manner permitting free vertical movements of the hammer, and with leads laterally braced to assure fir support of the piles during driving." and paragraph C states "The pile is to be located by temporary frames containing members of adequate size to guide and stabilize placement of the pile prior to and during driving." Is the intention to have the Contractor use either paragraph B (fixed leads) or paragraph C (temporary falsework frame) to driving the steel pipe piles? Or is it both fixed leads and temporary falsework frame?

RESPONSE: The means and methods of installation are ultimately the responsibility of the contractor. Due to the limited amount of allowable variance of the installed location of the pile for installation of precast concrete components, it is recommended that the contractor use false during the installation of the steel pipe piles.

64. Is the Contractor required to perform PDA testing on timber piles at Commercial Landing Pier? If so, how many PDA?

RESPONSE: No. PDA testing is not required on timber piles.

65. Specification section 010250 Measurement and Payment Bid item 8 para A3 states "pile load testing with Pile Driving Analyzer (PDA) on 2 test piles to be specified by the engineer in the field." Please confirm the 2 PDA test piles are permanent piles, not sacrificial piles.

RESPONSE: Testing will be done on 2 production (permanent) piles as specified by the Project Engineer in the field.

66. In reference to the existing utility pole that is to remain and be supported during construction. This is work that the utility company would likely control and do. Please confirm this work will be the responsibility of the utility company and not the Contractors. Will the Town assume the costs charged by the utility company for this work?

RESPONSE: The intent is the note is for the Contactor to protect the existing utility pole from work they are performing in proximity to the existing pole. Any cost associated with work performed by the utility company will be the responsibility of the Town.

67. In reference to the removal, transport and setting of the South revetment stone to the North revetment, please provide a scope of work or details for the North revetment improvements so that Contractors can better understand that work as well as how much surplus revetment stone will need to be hauled offsite.

RESPONSE: All existing revetment stone shall be hauled to the Town yard. See call outs and notes on revised sheets C-102 and C-103 attached herein.

68. When the Contractor delivers the excess revetment stone to the DPW yard, is the Contractor responsible for handling/stacking the stone at the DPW yard or just dumping it direct from trucks onto the ground?

RESPONSE: Rock loads can be dumped directly from trucks at the Towns DPW yard.

69. Please provide a separate bid/pay line item for the gravel borrow to be used under the areas scheduled to receive new asphalt paving.

RESPONSE: Full depth pavement section will be paid by the Square Yard as noted in Bid Item No. 5.

70. Have buoyancy calculations been completed on the precast drainage structures and if so, will additional measures be required during construction to secure the structures prior to backfilling?

RESPONSE: The Contractors means and method will determine if the drainage structures will need additional measures to secure the structures prior to backfill. The structures do not require any additional tie downs to address buoyancy after backfill.

71. Do the oil water separators require sealed rings and covers?

RESPONSE: Yes, grade rings and covers shall be sealed with a bitumastic sealer.

72. Most of the drainage structures will require a fair amount of dewatering for installation. Are there any requirements of the Contractor for a dewatering plan or dewatering disposal?

RESPONSE: The Contractors means and methods will determine if dewatering is required. If required, see 401 Water Quality Cert for dewatering requirements.

73. Based on conversations the pipe suppliers have had with Fusion Bond Epoxy coaters, the Fusion Bond Epoxy specifications cannot be met nor can the coaters handle the size/weight of the 24" x 3/4" wall pipe. At least one Fusion Bond Epoxy coater has declined to quote for these reasons. Due to the tight timeframe with the bid date on this project, and lack of opportunity to submit questions beyond the deadline, please provide an alternative, non-Fusion Bond Epoxy coating system that can be utilized on the pipe piles.

RESPONSE: Fusion Bond Epoxy is the preferred coating for the 24" x 3/4" pipe piles. The availability of the coating has been verified by suppliers and bidders shall base their bid on Fusion Bond Epoxy. The selected contractor can propose a substitution of a coal tar epoxy matching the sheet pile specification with a credit associated with the reduced costs.

74. Can you provide basis of design manufacturer/part number for the decorative light poles so we can price appropriately. If unavailable, can you provide an allowance you would like us to carry?

RESPONSE: Contractor to provide light poles, with fixtures, bases etc. installed as a complete unit, in locations as shown on the Contract Drawings.

Light pole to be aluminum pole with LED fixture meeting the requirements of Specification 260000.2.13. Light pole to be 14' tapered aluminum (4" butt diameter, w/0.125" thickness) with anchor base and tenon/side mounting (per Structural Drawings S-710). A basis of design light pole would be Hapco Cat#RTA14B4A401 or Valmont Cat#R130830404T4-D1-DNA-204

Light Fixture to be (1 per pole) Site/Area Lighting style with 60W LED (equivalent) fixture, IESNA Type III lighting coverage, 4000K, 240V 1-phase

Basis of Design / typical fixtures can include:

Lithonia - DSX1 LED P7 40K 70CRI T3M MVolt RPA DF BAA DNAXD

Lithonia - RSX1 LE P3 40K R3 MVOLT RPA DF BAA DNAXD

75. Please confirm NEMA rating of panel LP, 400-amp service disconnect meter and CT cabinet?

RESPONSE: All equipment shall be NEMA 4X per notes on Drawing E-106.

76. Drawing E-106 shows furnishing a CT cabinet and meter socket. Scope of work in spec section 260000 1.24A2 notes class 320 meter socket. Can you confirm which we are supplying?

RESPONSE: The 400A service will utilize a Class 320 meter socket per 260000.1.24. The Detail on E-106 is for installation guidance. We do not anticipate the utility requiring a CT cabinet on this project.

77. Drawing E-106 notes individual enclosures for panel LP, service disconnect and CT cabinet/meter socket. Spec section 260000 2.10 notes providing (1) outdoor enclosure. Can you confirm which we are supplying?

RESPONSE: A single enclosure is preferred with the exception of meter sockets, utility-required disconnects etc which are to be mounted externally. The Detail on E-106 is for installation guidance.

78. Specification sections 260000 2.11, 2.12 and 2.13 note individual timeclocks for flag pole lighting, wall lighting and photocells for decorative pole lighting. Scope of work in spec section 260000 1.24A2 notes a single timeclock for a lighting contactor to control all lighting. Can you confirm which we are supplying?

RESPONSE: A single time-clock with lighting contactor is preferred and can be reviewed during the submittal process.

79. Tank Full Interlock controls? Does the existing tank (to be reused) have a float switch interlock system? If not, is Keco's Tank Alert system something we should offer to the Contractor as an option?

RESPONSE: The existing has a float switch and will be reused onsite. No additional alert system is required.

80. Distance from fuel dispensers to pumpout? Will the pumpout be installed within the NFPA Class 1, Div. 2 area (aka explosion proof zone)?

RESPONSE: The pump out is more than 10 feet from the source location for the dispenser and is not within the NFPA Class 1, Div. Area.

81. Will you be installing utilities on the floating docks?

RESPONSE: The pumpout station will be installed at the location shown on the Contract Drawings. The pump specified will match the pump currently being used on site that is sufficient.

82. In looking through the bid package I noticed the spec for a 1-ton jib crane. We represent the Dutch manufacturer Roodberg <http://www.roodberg.com> and will be proposing our 2-ton jib crane to the same Contractor. The chain hoists Roodberg uses come equipped with wireless controls. Are wireless controls acceptable?

RESPONSE: The Contractor can propose to substitute a 2-ton jib crane after award. For bidding purposes, the 1-ton Jib crane shall be used. Wireless controls are not acceptable. A wired controller is required.

83. What is the estimated pile length for the 24" pipe piles?

RESPONSE: See response to Question #2 and #3 above.

84. What is the estimated pile length for the 12" CCA pier battered and plumb piles?

RESPONSE: See response to Questions #4 and #5 above.

85. Can you clarify what shore power outlets are bulkhead versus pedestal mount and please provide spec or detail on pedestal as multiple options are available from the manufacturer?

RESPONSE: All shore power outlets are bulkhead mounted. See Specification 260000 Part 2. Section 2.2 – A. for wall-mounted power units recommended manufacturer.

86. Can you provide mounting detail for shore power outlets attaching to bulkhead?

RESPONSE: Shore power units shall be mounted to the bulkhead per the manufacturer's recommendation.

87. Can you confirm if we are re-feeding (2) existing buildings as noted on drawing E-101 (marked up drawing attached)? If so, can you provide feeder sizes and detail drawings on connections at buildings?

RESPONSE: The Contractor shall install 2-3" PVC SCH 40 Elec. Conduit only for future transition to underground secondary service to existing building by others.

Item 5 Furnish & Install Asphalt Pavement is by The SY, the details provided have different depths 4.25" and 4". Could the Item be priced by the TON?

RESPONSE: Sheet C-701 revised and detail removed. The full depth pavement section is applicable throughout the entire footprint of paving. The unit price by square yard is applicable.

88. Items 6,8,9,10,11 and 13 obstructions that are 5 Ft or less are incidental to the Item, if the obstruction is more than 5 Ft how will the contractor be paid?

RESPONSE: See Section 316216 – Sheet Piles, Part 3 – 3.3 B. for Obstructions in Sheet Pile locations and Section 316216.13 – Steel Pipe Piles, Part 3- 3.7 B. for Obstructions in Pipe Pile Locations. Obstructions beyond the 5’ depth from existing mudline will be dealt with on a case by case basis and the contractor will be compensated for additional work outside of the referenced pay items.

89. The contractor Layout and staging yards shown on C-102, can the contractor assume they will be made available on September 3, 2024, the day after Labor Day? This is necessary to meet the schedule and permit constraints.

RESPONSE: The contractor laydown area at shown on C-102 can be available to the contractor after September 3, 2024 as requested.

90. Sheet 701, El. Off by 1’ for cap.

RESPONSE: Sheet S-701 was revised accordingly.

91. Some of the layout does not match up, Sheet 502 14-770’s show wrong dimension for the LF of wall.

RESPONSE: Length of sheet pile bulkhead has been corrected on C-204 and Unit Price Bid schedule. See attached C-204.

92. On Sheet S-701 what is the length of the HP10x57 wale as shown on Detail B?

RESPONSE: The total length is +/- 129 linear feet. Final length will be determined during shop drawing review process.

Attachments:

Revised Exhibit A” to Bid – Bid Schedule (3 pages)

Plan Holders List Dated 03/22/2024 (2 pages)

Revised Drawings – 14 sheets (total)

*****END OF ADDENDUM #3*****

EXHIBIT "A" TO BID (REVISED)

BID SCHEDULE

ITEM NUMBER	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
1	1	MOBILIZATION/DEMOBILIZATION Dollars () per LUMP SUM (LS)				
2	1	SITE PREPARATION Dollars () per LUMP SUM				
3	1	DEMOLITION, REMOVAL AND DISPOSAL Dollars () per LUMP SUM (LS)				
4	1	UNDERGROUND TANK REMOVAL & DISPOSAL Dollars () per LUMP SUM (LS)				
5	1,625	FURNISH AND INSTALL ASPHALT PAVEMENT Dollars () per SQUARE YARD (SY)				
6	368	FURNISH AND INSTALL STEEL SHEET PILE REPLACEMENT BULKHEAD Dollars () per LINEAR FOOT (LF)				
7	14	DRILLED GROUND ANCHORS Dollars () per EACH (EA)				
8	42	FURNISH AND INSTALL 24" DIAMETER STEEL PIPE PILES Dollars () per EACH (EA)				

TOWN OF ORLEANS
 ROCK HARBOR COMMERCIAL WHARF IMPROVEMENT PROJECT
 113 ROCK HARBOR ROAD, ORLEANS MA

ITEM NUMBER	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
9	1	FURNISH AND INSTALL PILE-SUPPORTED CONCRETE COMMERCIAL WHARF WITH PUBLIC VIEWING AREA _____ Dollars () per LUMP SUM (LS)				
10	660	FURNISH AND INSTALL TIMBER TOWN PIER _____ Dollars () per SQUARE FOOT (SF)				
11	380	FURNISH AND INSTALL TIMBER COMMERCIAL LANDING PIER _____ Dollars () per SQUARE FOOT (SF)				
12	2,176	FURNISH AND INSTALL TIMBER FLOATS _____ Dollars () per SQUARE FOOT (SF)				
13	65	FURNISH AND INSTALL GREENHEART TIMBER BERTHING, FLOAT AND FENDER PILES _____ Dollars () per EACH (EA)				
14	470	FURNISH AND INSTALL TIMBER RAILING SYSTEM _____ Dollars () per LINEAR FOOT (LF)				
15	142	FURNISH AND INSTALL STEEL GUARD RAIL _____ Dollars () per LINEAR FOOT (LF)				
16	13	FURNISH AND INSTALL CONCRETE-FILLED STEEL BOLLARDS _____ Dollars () per EACH (EA)				

TOWN OF ORLEANS
 ROCK HARBOR COMMERCIAL WHARF IMPROVEMENT PROJECT
 113 ROCK HARBOR ROAD, ORLEANS MA

ITEM NUMBER	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
17	1	FURNISH AND INSTALL NEW FUEL DISPENSERS, UNDERGROUND LINES AND CONTROL SYSTEMS Dollars () per LUMP SUM (LS)				
18	1	FURNISH AND INSTALL PUMP-OUT SERVICE UPGRADES Dollars () per LUMP SUM (LS)				
19	1	FURNISH AND INSTALL 1-TON JIB CRANE Dollars () per LUMP SUM (LS)				
20	8	FURNISH AND INSTALL EMERGENCY ACCESS LADDERS Dollars () per EACH (EA)				
21	1	FURNISH AND INSTALL DRAINAGE SYSTEMS Dollars () per LUMP SUM (LS)				
22	1	FURNISH AND INSTALL ELECTRICAL SERVICE & LIGHTING Dollars () per LUMP SUM (LS)				
23	1	FURNISH AND INSTALL WATER SYSTEMS Dollars () per LUMP SUM (LS)				
24	1	POLICE DETAIL Ten Thousand Dollars (\$10,000.00) per ALLOWANCE	\$10,000	00	\$10,000	00
TOTAL BID AMOUNT (ITEMS 1 -24)						

SEE MEASUREMENT AND PAYMENT SECTION 010250 - FOR DESCRIPTION OF BID ITEMS REFERENCED ABOVE.

ROCK HARBOR COMMERCIAL WHARF IMPROVEMENTS

IFB PLAN HOLDERS LIST

MARCH 22, 2024

<u>ID</u>	<u>Submission Date</u>	<u>Company Name</u>	<u>Contact Name</u>	<u>Phone Number</u>	<u>Email Address</u>
2221	3/8/2024 8:27	Lawrence-Lynch Corp.	Christine Marie Astin	5085481800	castin@lawrencelynch.com
2222	3/8/2024 8:28	Dependable Service Company	Leandra	5087269277	lmoales@dependablecompany.com
2223	3/8/2024 8:45	MAS Building & Bridge, Inc	Jennifer Mackey	508-520-2277	jmackey@masbuildingandbridge.com
2224	3/8/2024 9:00	Tighe & Bond	Britt Bursell		masterusername@tighebond.com
2225	3/8/2024 9:22	Tighe & Bond, Inc.	Emily White	6034338818	ewhite@tighebond.com
2226	3/8/2024 9:34	DW White Construction, Inc	Joel Kosberg Kosberg	5087638868	jkosberg@dwwwhite.com
2227	3/8/2024 9:52	PWXPress	Mary Miller	4086768941	bids@pwxpress.com
2228	3/8/2024 9:57	Coastal Marine Construction	John McNulty	5086494057	john@coastalmc.net
2229	3/8/2024 10:08	Cjr Atlantic	Adrienne Barnard		Adrienne@cjratlantic.com
2230	3/8/2024 10:45	Cjr Atlantic	Adrienne Barnard	4065317847	Adrienne@cjratlantic.com
2231	3/8/2024 10:50	cjr atlantic	Adrienne Barnard	4065317847	adrienne@cjratlantic.com
2233	3/8/2024 11:05	Construct Connect	Content	5134585892	content@constructconnect.com
2234	3/8/2024 12:04	Manafort Transit	Courtney Baro	781-328-2366	CBaro@ManafortTransit.com
2235	3/8/2024 12:06	Great Eastern Marine Service In	Jonathan Taliadoros	9782832123	jonathan@greateasternmarine.com
2236	3/8/2024 12:12	Aldon Electric	Andrew Smith	7813370222	a.smith@aldonelectric.com
2237	3/8/2024 12:32	North East Weathered	John	781-706-2761	info@northeastweathered.com
2238	3/8/2024 13:07	Robert B. Our Marine Division LLC	Kimberly M Boutin	5084320530	kboutin@robertbour.com
2239	3/8/2024 13:11	North-Eastern Tree Service Inc.	Marisa Sepe	4019417204	marisa@northeasterntree.com
2240	3/8/2024 13:21	Enviroidnet an Entram Corp	John Falcone	888-888-0900	cavenviroid@gmail.com
2241	3/8/2024 14:14	Onvia	Onvia	2063739500	deltekplusonvia@gmail.com
2242	3/8/2024 14:16	PWXPress	Mary Miller	408-676-8941	bids@pwxpress.com
2243	3/8/2024 14:19	East Marine Services	Alexa Janeczko	2016871246	alexajanezczo@gmail.com
2244	3/8/2024 14:20	Reagan Marine Construction, LLC	Ashley Stanley	4016027071	astanley@reaganmarine.com
2245	3/8/2024 14:29	AGM Marine Contractors, Inc.	Jonah Mikutowicz	5087769759	jonah.mikutowicz@agmmarine.com
2246	3/8/2024 14:48	John Ricker	John Ricker	6033808817	Johnricker6805@gmail.com
2247	3/8/2024 14:48	John Ricker	John Ricker	6033808817	Johnricker6805@gmail.com
2248	3/8/2024 17:28	MIG Corporation Inc.	Donald Corporation Voghel	978-264-4800	dvoghel@migcorporation.com
2249	3/8/2024 23:20	PWXPress	mary mary miller	4086768941	bids@pwxpress.com
2250	3/9/2024 0:25	Projectdog	Ali Didion	9784999014	addenda@projectdog.com
2251	3/9/2024 4:45	dodge and data	dodge data	7894621256	dodge.docs@construcion.com
2252	3/9/2024 6:19	Beacon Marine Construction	Jon Hagenstein	5084777880	jon@beaconmarineco.com
2253	3/10/2024 7:44	EM Lofgren Corp.	Taylor Lofgren	7815341021	emlofgrencorp@outlook.com
2255	3/11/2024 1:04	visualinfomedia	sivakumar N	3474801475	techzone@visualinfomedia.com
2256	3/11/2024 8:33	R. Zoppo Corp	Stan Carter	7813189225	scarter@zoppo.com
2257	3/11/2024 8:53	MIG Corporation, Inc.	Stephanie LaRosee	(508) 789-5968	slarosee@migcorporation.com
2258	3/11/2024 10:11	Ruberti Construction	James Ruberti		james@ruberticonstruction.com
2259	3/11/2024 10:14	Trades Enterprises	John foy		johnfoytrades@yahoo.com
2260	3/11/2024 10:33	Mass Bay Electrical Corp.	Ron Salvucci	857-256-2046	ron@massbayelectric.com
2261	3/11/2024 10:37	C White Marine, Inc.	Jenelle Palladino	9787775656	jpalladino@cwhitemarine.com
2262	3/11/2024 10:48	AGM Marine Contractors	John Mikutowicz	5084778801	john@agmmarine.com
2263	3/11/2024 13:30	Northern Construction Service, LLC	Dulce Montana	4132891230	dmontana@northernconstruction.com
2264	3/11/2024 17:48	PWXPress	Gio Saravini	408-676-8941	quotes@gtechresearch.com
2265	3/12/2024 12:27	Maine Drilling & Blasting	Peter Marcotte	6036470299	pmarcotte@mdandb.com
2266	3/12/2024 13:23	Smith Marine, Inc.	Matt Plauche	7816314800	matt@smithmarineinc.com
2267	3/12/2024 14:25	Jacobs	Ilker Tutuncu	(646) 908-6550	ilker.tutuncu@jacobs.com
2268	3/12/2024 15:57	Biszko	Estimating Dept	5086790518	estimating@biskocorp.com
2269	3/13/2024 12:28	Marina Technologies Inc	John Wilson	7273082313	john.w@marinatechnologies.com
2270	3/13/2024 12:32	Foth Infrastructure & Environment, LLC	Christine Player		Christine.Player@foth.com
2277	3/14/2024 0:54	visualinfomedia	sivakumar N	3474801475	techzone@visualinfomedia.com
2279	3/14/2024 7:58	EJP	REID	2074582770	reid.pomerleau@ejprescott.com
2280	3/14/2024 8:16	KOBO Utility Construction	Malisa Fearing	5088882255	malisa.fearing@koboutility.com
2281	3/14/2024 11:00	ACK Marine & General Contracting, LLC	Barry Belcastro	6174815566	barry@ack-marinecontracting.com
2282	3/14/2024 11:11	PWXPress	Mary Miller	4086768941	bids@pwxpress.com
2284	3/14/2024 11:58	BTT Marine Construction Company, LLC	Scott Haggerty		Scotth@reinauer.com
2286	3/14/2024 19:32	Manafort Transit, LLC	Tom Le	6175926144	Tle@manaforttransit.com
2288	3/15/2024 6:40	BTT Marine	Scott Haggerty	9174168560	scotth@reinauer.com
2289	3/15/2024 11:02	Coastal	John McNulty	5086494057	john@coastalmc.net
2290	3/15/2024 12:16	AGM Marine Contractors, Inc.	Mark L Timmerman	5086819871	mltimmerman67@yahoo.com
2292	3/15/2024 15:12	Construct Connect	Scott Jonas	5134585892	scott.jonas@constructconnect.com
2298	3/18/2024 9:28	J.F. Brennan Company, Inc.	Jared Blodgett	308-860-8706	jblodgett@jfbrennan.com
2299	3/18/2024 9:35	AccuDock	Amy Pasqualone	9547857557	amy@accudock.com
2304	3/18/2024 13:44	BTT Marine Construction	Scott Haggerty		scotth@reinauer.com
2305	3/18/2024 18:00	AGM Marine Contractors, Inc.	Jonah Mikutowicz	5087769759	jonah.mikutowicz@agmmarine.com

ROCK HARBOR COMMERCIAL WHARF IMPROVEMENTS

IFB PLAN HOLDERS LIST

MARCH 22, 2024

2306	3/19/2024 10:06	Chapman Electric	Steven Beal	7745593902	steven@chapmanelectric.co
2307	3/19/2024 11:54	Construct Connect	Scott Jonas	5134585892	scott.jonas@constructconnect.com
2309	3/19/2024 15:27	ATLANTIC CONCRETE	JOHN CHUCKRAN	508-759-7032	atlcncrte@aol.com
2310	3/19/2024 15:29	JW Dubis & Sons, Inc.	JW Dubis & Sons, Inc	5089450283	pam@jwdubis.com
2311	3/19/2024 16:45	Dock Hardware Marine Fabrication	Matt Stevenson	843- 798-3625	dockshardware1@optonline.net
2313	3/20/2024 7:51	manafort transit, LLC	Tom Le	6175926144	tle@manaforttransit.com
2314	3/20/2024 8:26	BTT Marine	Scott Haggerty	9174168560	scotth@reinauer.com
2316	3/21/2024 10:33	Town of Bourne	Asa Mintz	508 400 2365	amintz@townofbourne.com
2317	3/22/2024 8:01	BTT Marine	scott haggerty	9174168560	scotth@reinauer.com
2318	3/22/2024 10:33	cape coastal builders	peter hopple	5082465432	peterhopple@yahoo.com

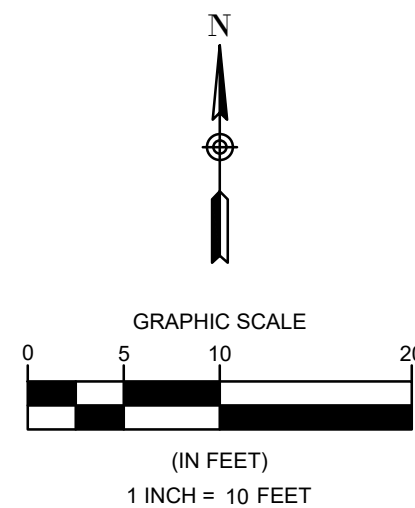


DEPARTMENT OF PUBLIC WORKS
 TOWN OF ORLEANS, MASSACHUSETTS
 ROCK HARBOR COMMERCIAL WHARF IMPROVEMENTS

REVISIONS		DATE	DESCRIPTION
NO.	BY	DATE	DESCRIPTION
1	JSD	08/22/2024	ADDENDUM #3
2			
3			
4			

DATE OF PREPARATION		
SURVEYED	MEC/JAH	10/24/19 & 3/2/21
DRAWN	BAM	12/05/2023
DESIGNED	SRS	06/28/2021
CHECKED	PSR	12/24/2023

SHEET TITLE:
 DEMOLITION PLAN
 1 OF 2
 ISSUANCE:
ISSUED FOR BID
 PROJECT NO: 00190004.10
 SHEET NUMBER
 C-102



- NOTE:**
- ALL EXISTING PAVEMENT AND GRAVEL WITHIN LIMITS OF NEW FULL DEPTH PAVEMENT TO BE REMOVED.
 - R & D - REMOVE AND DISPOSAL.
 - R & R - REMOVE AND RESET.
 - EXISTING BACKFILL TO BE REMOVED/DREDGED TO ELEVATION -3.0 MLW WITH 1' OF ALLOWABLE OVERDIG/OVERDREDGE TO -4 MLW (± 2,300 CY). SEE MADEP 401WQC 22-WW08-0018-AAP FOR REUSE/DISPOSAL REQUIREMENTS.

Thursday, March 21, 2024 3:21:57 PM
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 Layout: c-102 demolition plan 1 of 2
 DWG Folder Location:

DEPARTMENT OF PUBLIC WORKS
TOWN OF ORLEANS, MASSACHUSETTS
ROCK HARBOR COMMERCIAL WHARF IMPROVEMENTS

REVISIONS		DATE	DESCRIPTION
NO	BY	DATE	DESCRIPTION
1	JSD	08/22/2024	ADDENDUM #3

DATE OF PREPARATION

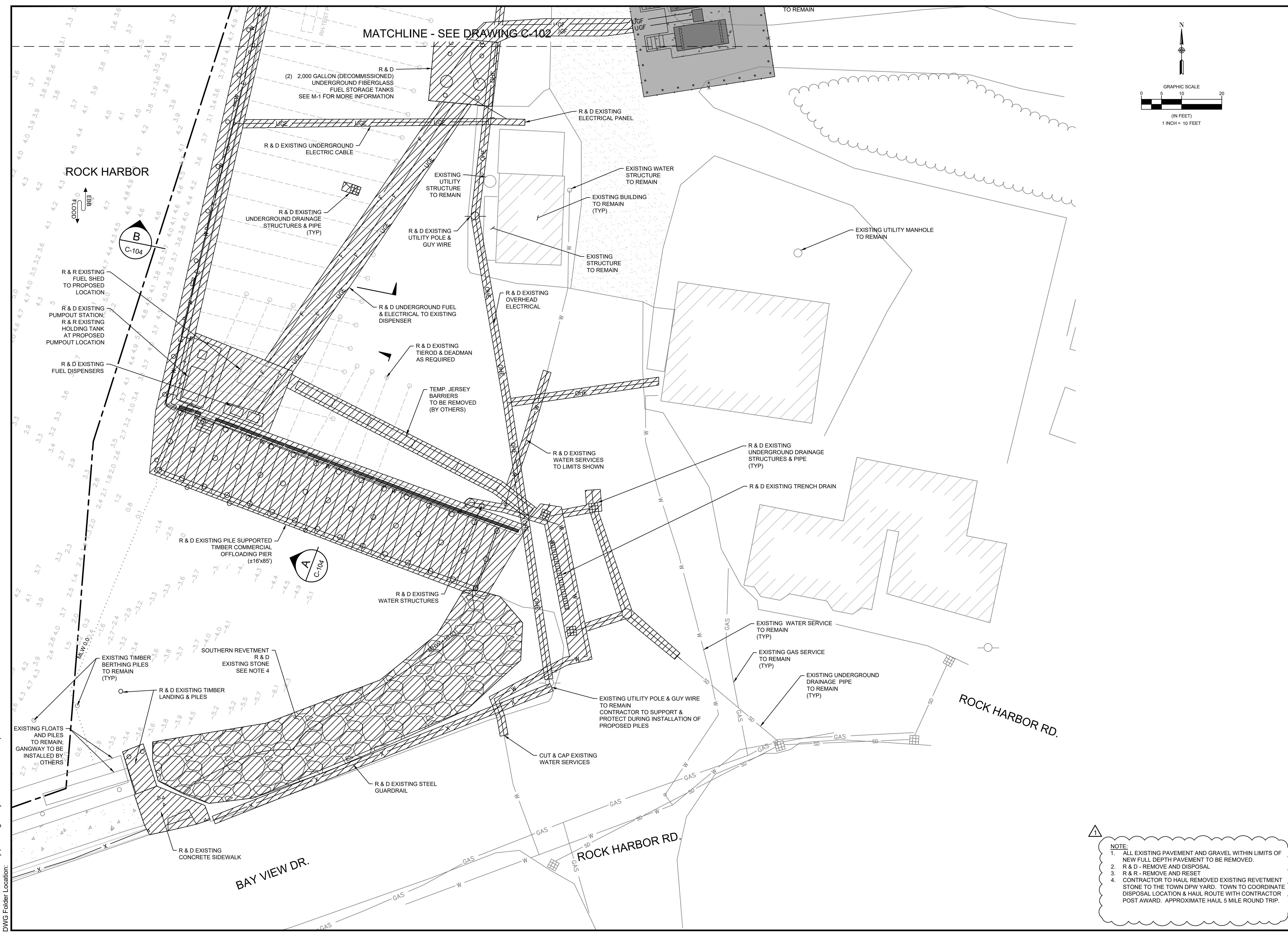
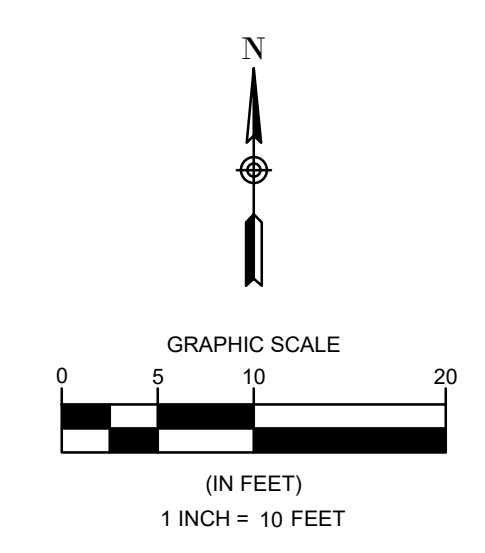
BY	DATE
SURVEYED MEC/JAH	10/24/19 & 3/22/21
DRAWN BAM	12/05/2023
DESIGNED SRS	06/28/2021
CHECKED PSR	12/24/2023

SHEET TITLE:

DEMOLITION PLAN
2 OF 2

ISSUANCE:
ISSUED FOR BID

PROJECT NO: 00190004.10
SHEET NUMBER



NOTE:

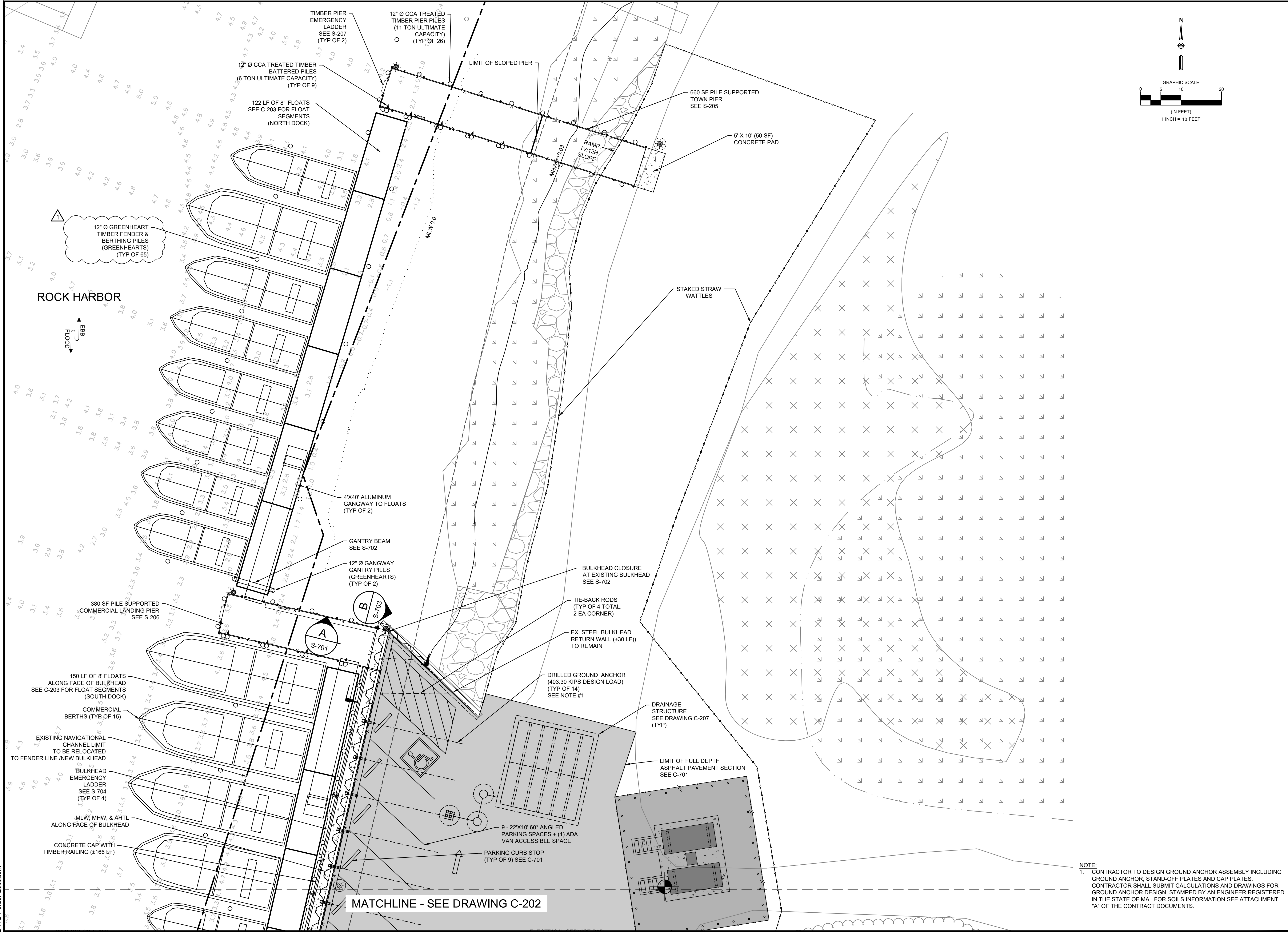
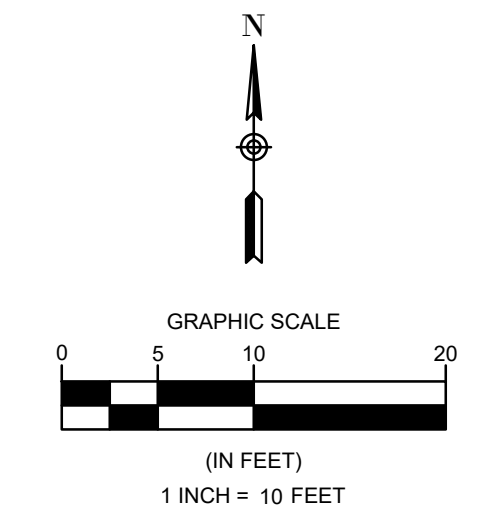
- ALL EXISTING PAVEMENT AND GRAVEL WITHIN LIMITS OF NEW FULL DEPTH PAVEMENT TO BE REMOVED.
- R & D - REMOVE AND DISPOSAL.
- R & R - REMOVE AND RESET.
- CONTRACTOR TO HAUL REMOVED EXISTING REVEMENT STONE TO THE TOWN DPW YARD. TOWN TO COORDINATE DISPOSAL LOCATION & HAUL ROUTE WITH CONTRACTOR POST AWARD. APPROXIMATE HAUL 5 MILE ROUND TRIP.

Thursday, March 21, 2024 3:32:16 PM
DWG Filename: c-101 key plan.dwg
Layout: c-103 demolition plan 2 of 2
DWG Folder Location:

DEPARTMENT OF PUBLIC WORKS
 TOWN OF ORLEANS, MASSACHUSETTS
 ROCK HARBOR COMMERCIAL WHARF IMPROVEMENTS

REVISIONS		DATE OF PREPARATION	
NO.	DESCRIPTION	BY	DATE
1	ISSUED FOR BID	MEC/JAH	10/24/19 & 3/2/21
2		BAM	12/05/2023
3		SRS	06/28/2021
4		PSR	12/24/2023

SHEET TITLE:	
SITE PLAN 1 OF 2	
ISSUANCE:	
ISSUED FOR BID	
PROJECT NO:	00190004.10
SHEET NUMBER	
C-201	



NOTE:
 1. CONTRACTOR TO DESIGN GROUND ANCHOR ASSEMBLY INCLUDING GROUND ANCHOR, STAND-OFF PLATES AND CAP PLATES. CONTRACTOR SHALL SUBMIT CALCULATIONS AND DRAWINGS FOR GROUND ANCHOR DESIGN, STAMPED BY AN ENGINEER REGISTERED IN THE STATE OF MA. FOR SOILS INFORMATION SEE ATTACHMENT "A" OF THE CONTRACT DOCUMENTS.

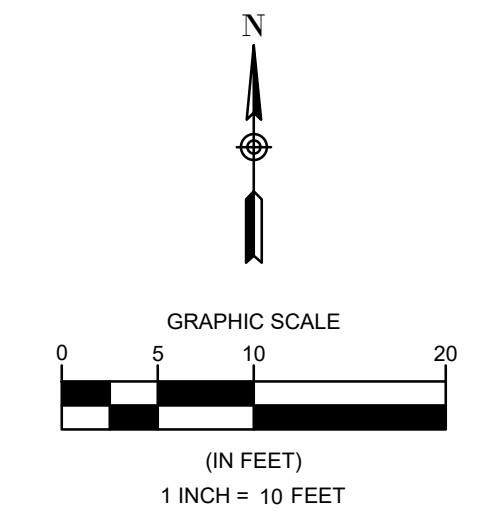
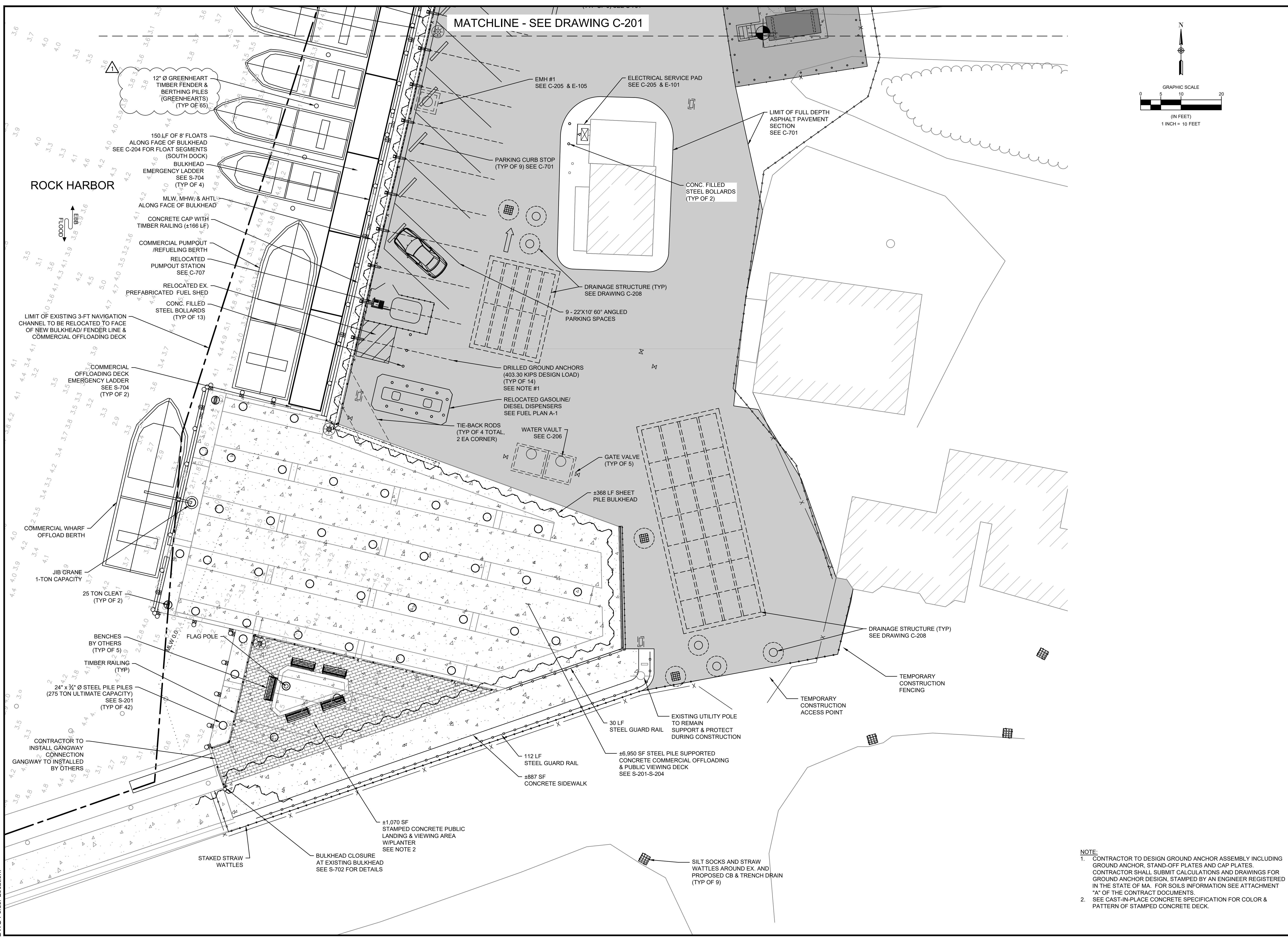
DEPARTMENT OF PUBLIC WORKS
TOWN OF ORLEANS, MASSACHUSETTS
ROCK HARBOR COMMERCIAL WHARF IMPROVEMENTS

REVISIONS		DATE	DESCRIPTION
NO	BY	DATE	DESCRIPTION
1	JSD	03/22/2024	ADDENDUM #3

DATE OF PREPARATION	
BY	DATE
MEC/JAH	10/24/19 & 3/2/21
BAM	12/05/2023
SRS	06/28/2021
PSR	12/24/2023

ISSUANCE:
ISSUED FOR BID

PROJECT NO: 00190004.10
SHEET NUMBER



NOTE:

- CONTRACTOR TO DESIGN GROUND ANCHOR ASSEMBLY INCLUDING GROUND ANCHOR, STAND-OFF PLATES AND CAP PLATES. CONTRACTOR SHALL SUBMIT CALCULATIONS AND DRAWINGS FOR GROUND ANCHOR DESIGN, STAMPED BY AN ENGINEER REGISTERED IN THE STATE OF MA. FOR SOILS INFORMATION SEE ATTACHMENT "A" OF THE CONTRACT DOCUMENTS.
- SEE CAST-IN-PLACE CONCRETE SPECIFICATION FOR COLOR & PATTERN OF STAMPED CONCRETE DECK.

DEPARTMENT OF PUBLIC WORKS
TOWN OF ORLEANS, MASSACHUSETTS
ROCK HARBOR COMMERCIAL WHARF
IMPROVEMENTS

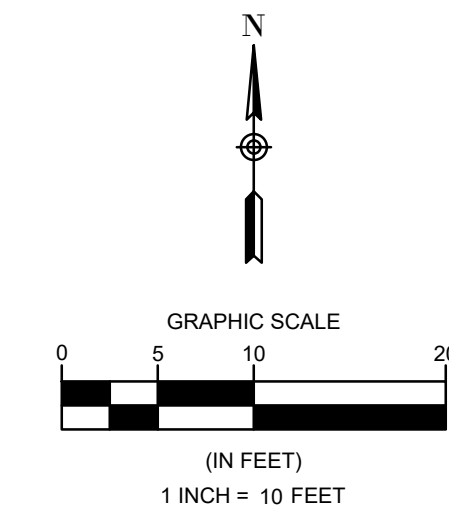
REVISIONS		DATE	DESCRIPTION
NO.	BY	DATE	DESCRIPTION
1	JSD	03/22/2024	ADDENDUM #3

DATE OF PREPARATION	
BY	DATE
MEC/JAH	10/24/19 & 3/22/21
BAM	12/05/2023
SRS	06/28/2021
PSR	12/24/2023

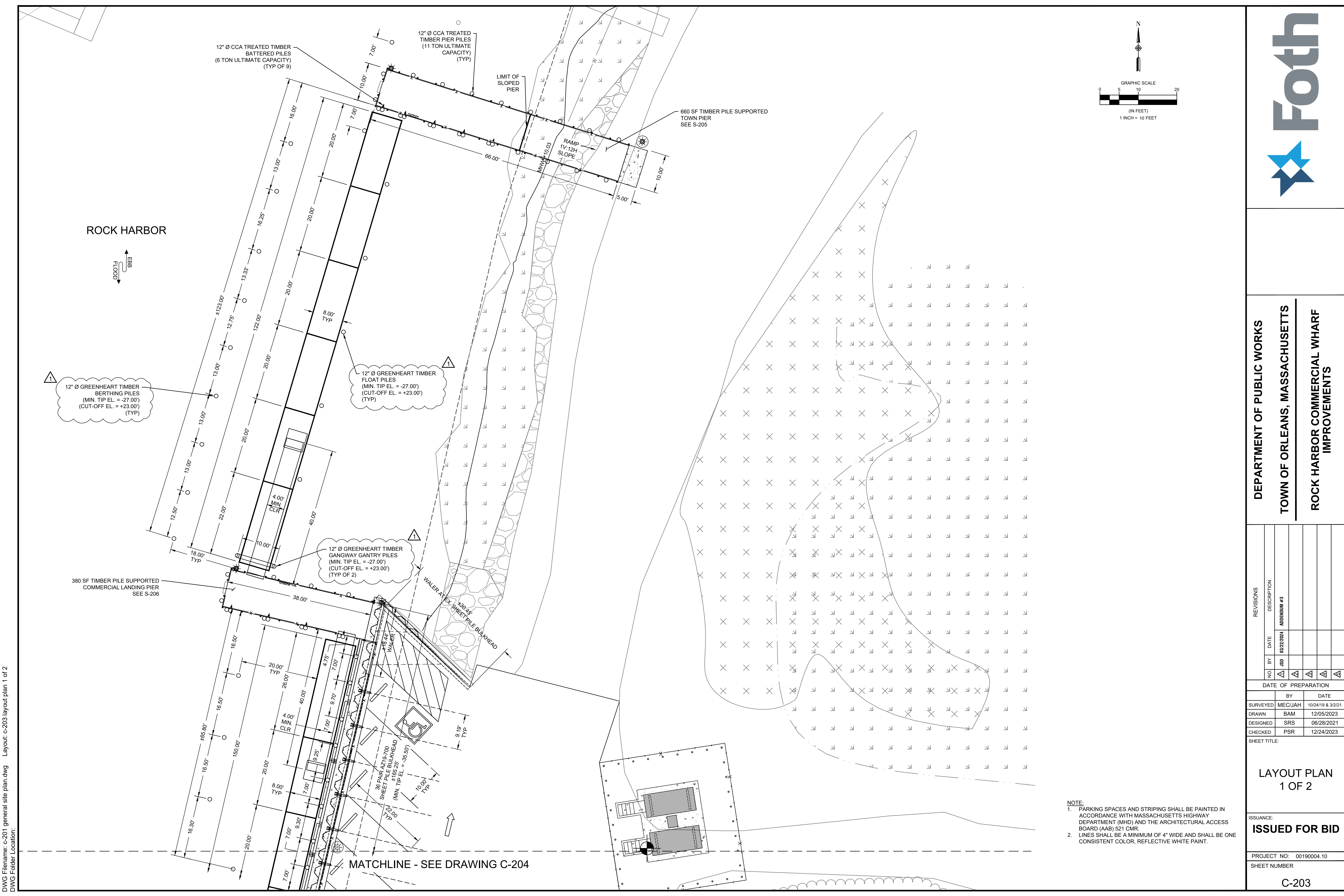
SHEET TITLE:
**LAYOUT PLAN
1 OF 2**

ISSUANCE:
ISSUED FOR BID

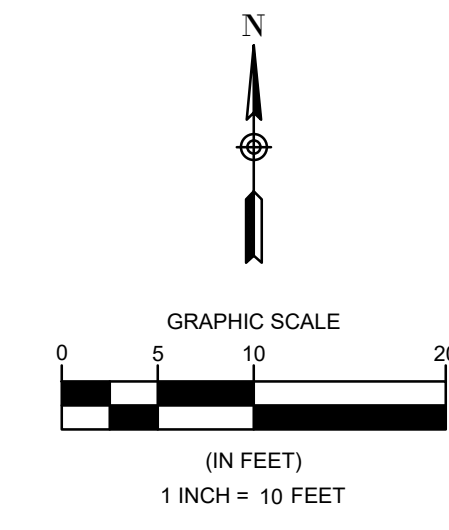
PROJECT NO: 00190004.10
SHEET NUMBER



NOTE:
1. PARKING SPACES AND STRIPING SHALL BE PAINTED IN ACCORDANCE WITH MASSACHUSETTS HIGHWAY DEPARTMENT (MHD) AND THE ARCHITECTURAL ACCESS BOARD (AAB) 521 CMR.
2. LINES SHALL BE A MINIMUM OF 4" WIDE AND SHALL BE ONE CONSISTENT COLOR, REFLECTIVE WHITE PAINT.

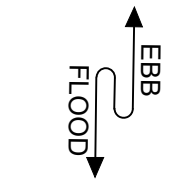


Friday, March 22, 2024 2:05:53 PM
DWG Filename: c-201 general site plan.dwg
Layout: c-203 layout plan 1 of 2
DWG Folder Location:



MATCHLINE - SEE DRAWING C-203

ROCK HARBOR



12" Ø GREENHEART TIMBER BERTHING PILES
(MIN. TIP EL. = -27.00')
(CUT-OFF EL. = +23.00')
(TYP)

12" Ø GREENHEART TIMBER FENDER PILES
(MIN. TIP EL. = -23.70')
(CUT-OFF EL. = +17.50')
(TYP)

12" Ø GREENHEART TIMBER FENDER PILES
(MIN. TIP EL. = -23.70')
(CUT-OFF EL. = +16.30')
(TYP)

±6,950 SF PILE SUPPORTED CONCRETE COMMERCIAL OFFLOADING & PUBLIC VIEWING DECK
SEE S-201-S-204

24" x 3/4" Ø STEEL PILE PILES
(275 TON ULTIMATE CAPACITY)
SEE S-201
(TYP OF 42)

SEE FUEL DRAWING A-1 FOR ISLAND DIMENSIONS

6 PAIR AZ19-700 SHEET PILE BULKHEAD
±27.54'
(MIN. TIP EL. = -28.75')

9 PAIR AZ14-770 SHEET PILE BULKHEAD
±45.45'
(MIN. TIP EL. = -28.75')

5.5 PAIR AZ14-770 SHEET PILE BULKHEAD
±27.78'
(MIN. TIP EL. = -28.75')

20 PAIR AZ14-770 SHEET PILE BULKHEAD
±101.00'
(MIN. TIP EL. = -28.75')

- NOTE:
1. PARKING SPACES AND STRIPING SHALL BE PAINTED IN ACCORDANCE WITH MASSACHUSETTS HIGHWAY DEPARTMENT (MHD) AND THE ARCHITECTURAL ACCESS BOARD (AAB) 521 CMR.
 2. LINES SHALL BE A MINIMUM OF 4" WIDE AND SHALL BE ONE CONSISTENT COLOR, REFLECTIVE WHITE PAINT.

DEPARTMENT OF PUBLIC WORKS
TOWN OF ORLEANS, MASSACHUSETTS
ROCK HARBOR COMMERCIAL WHARF IMPROVEMENTS

REVISIONS		DESCRIPTION	
NO.	DATE	BY	APPENDIX #3
1	03/22/2024	JSD	
2			
3			
4			
5			

DATE OF PREPARATION

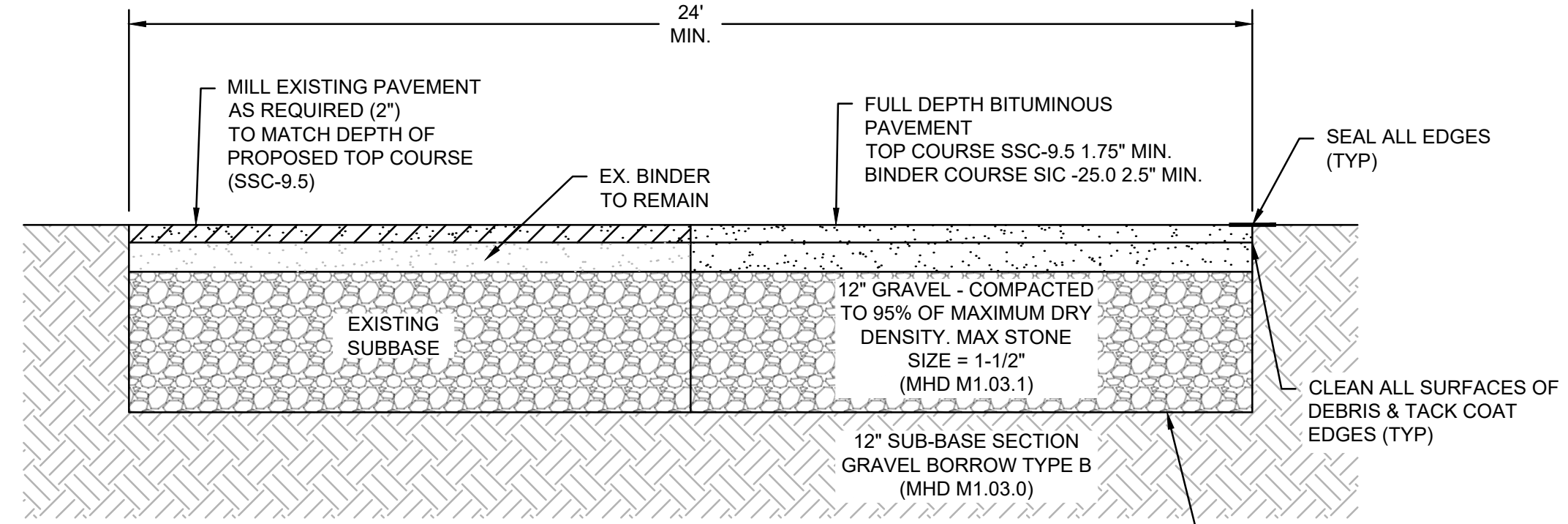
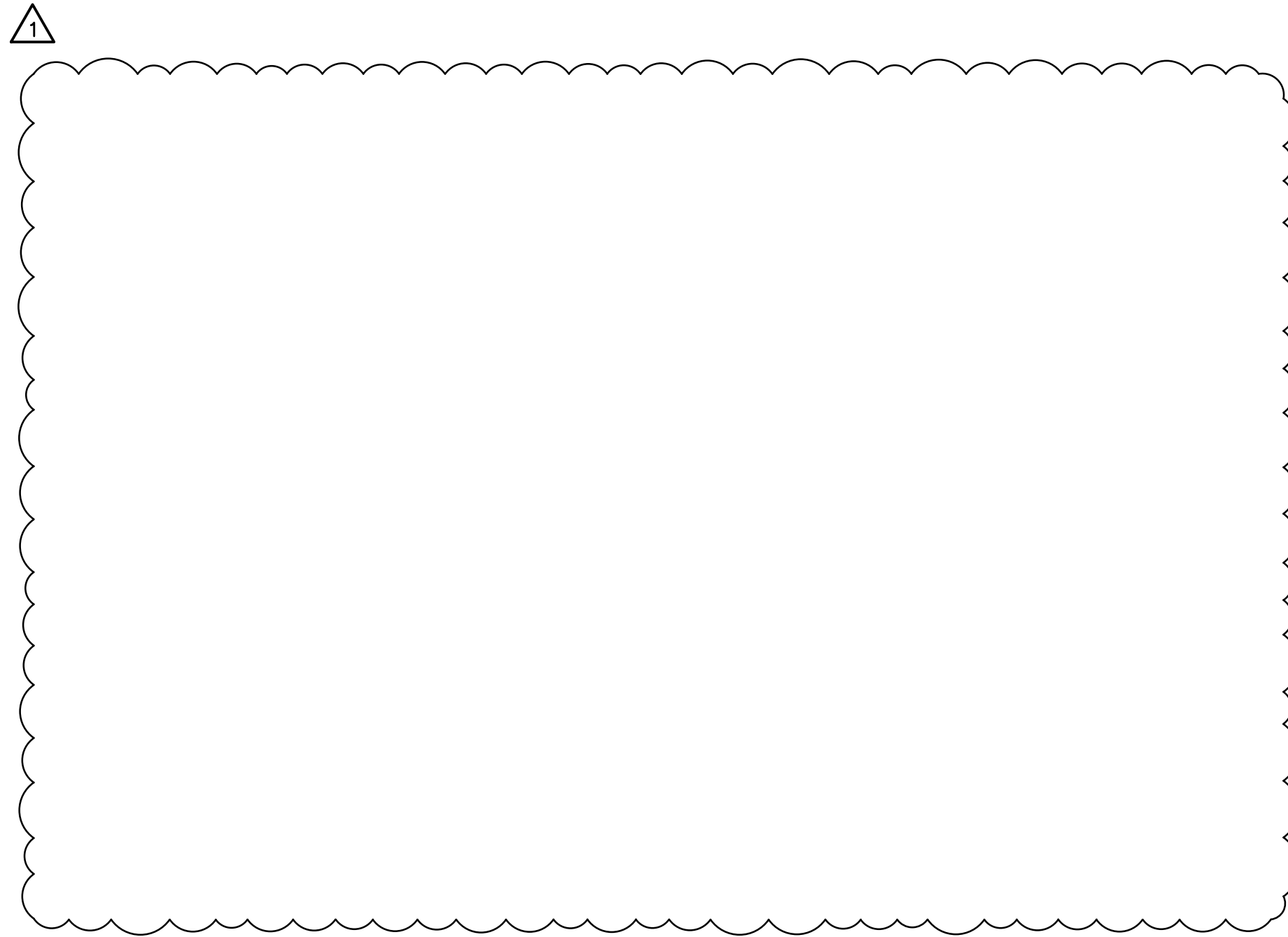
SURVEYED	BY	DATE
MEC/JAH		10/24/19 & 3/2/21
DRAWN	BY	DATE
BAM		12/05/2023
DESIGNED	BY	DATE
SRS		06/28/2021
CHECKED	BY	DATE
PSR		12/24/2023

SHEET TITLE:

LAYOUT PLAN
2 OF 2

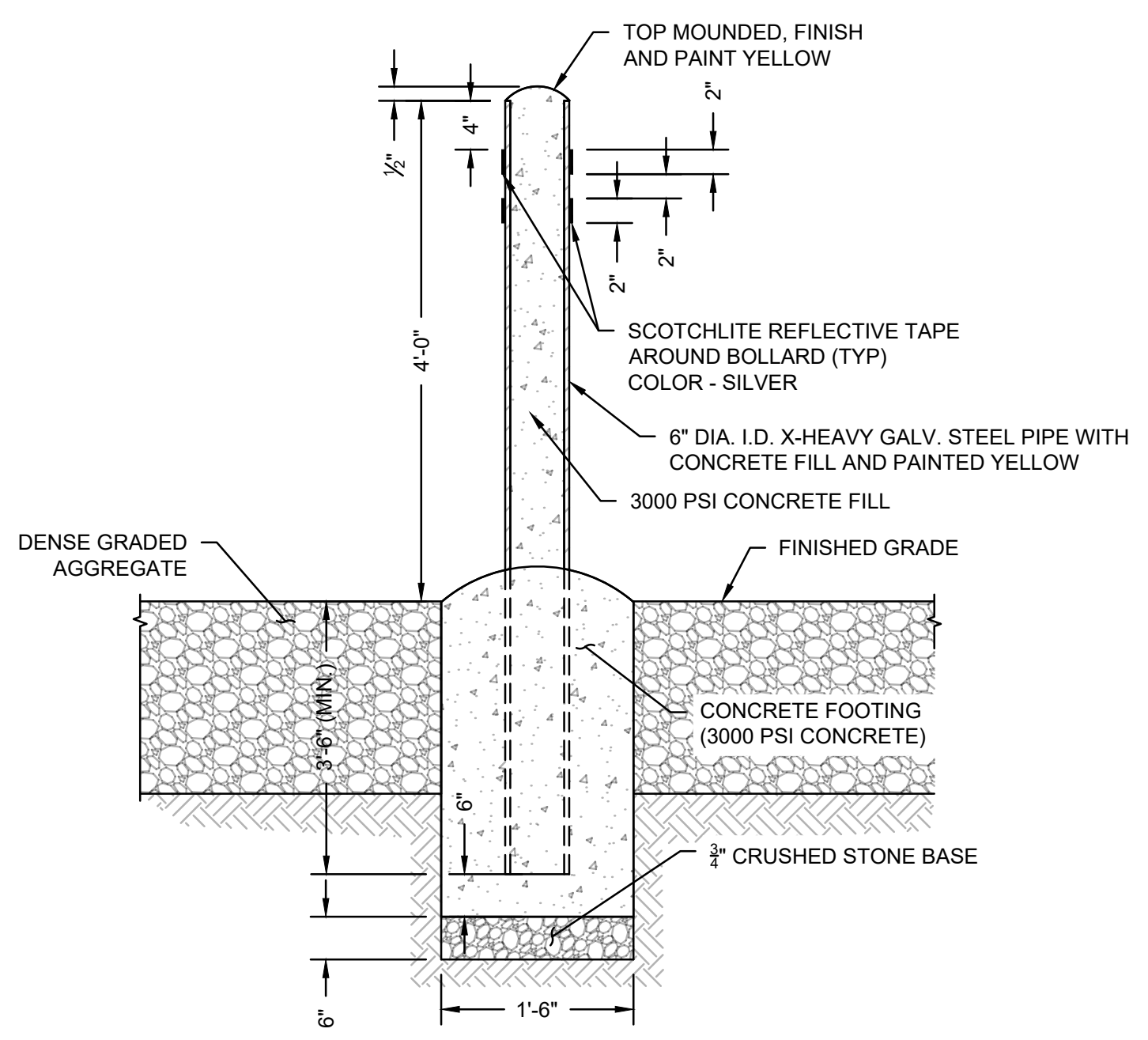
ISSUANCE:
ISSUED FOR BID

PROJECT NO: 00190004.10
SHEET NUMBER
C-204

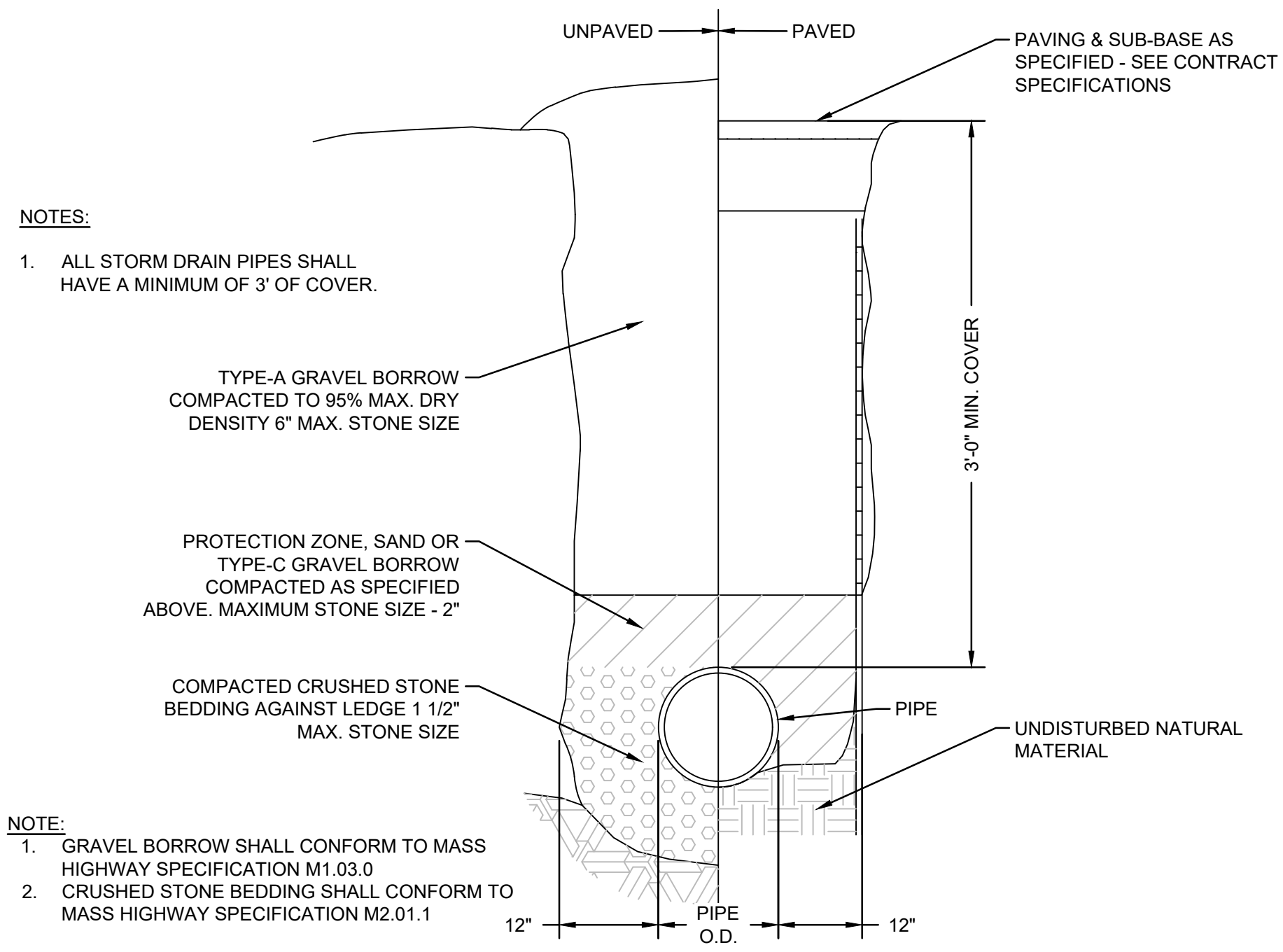


- NOTES:**
1. NEW BASE COURSE - PROVIDE BASE COURSE MATERIAL IN LIFTS NOT EXCEEDING 8" AFTER COMPACTION. COMPACT TO A MODIFIED PROCTOR DENSITY OF 95% OR GREATER.
 2. TACK COAT - PROVIDE FULL TACK COAT COVERAGE ON ALL VERTICAL SURFACES AT A RATE OF 0.06 TO 0.08 GALLONS PER SQUARE YARD PER MASSDOT STANDARD SPECIFICATIONS SECTION 450.3 (G).
 3. NEW ASPHALT PAVEMENT PAVEMENT PER MASSDOT STANDARD SPECIFICATION SECTION 460. COMPACT THE NEW PAVEMENT TO 95% OF LABORATORY DENSITY OR 94% OF MAXIMUM THEORETICAL DENSITY.

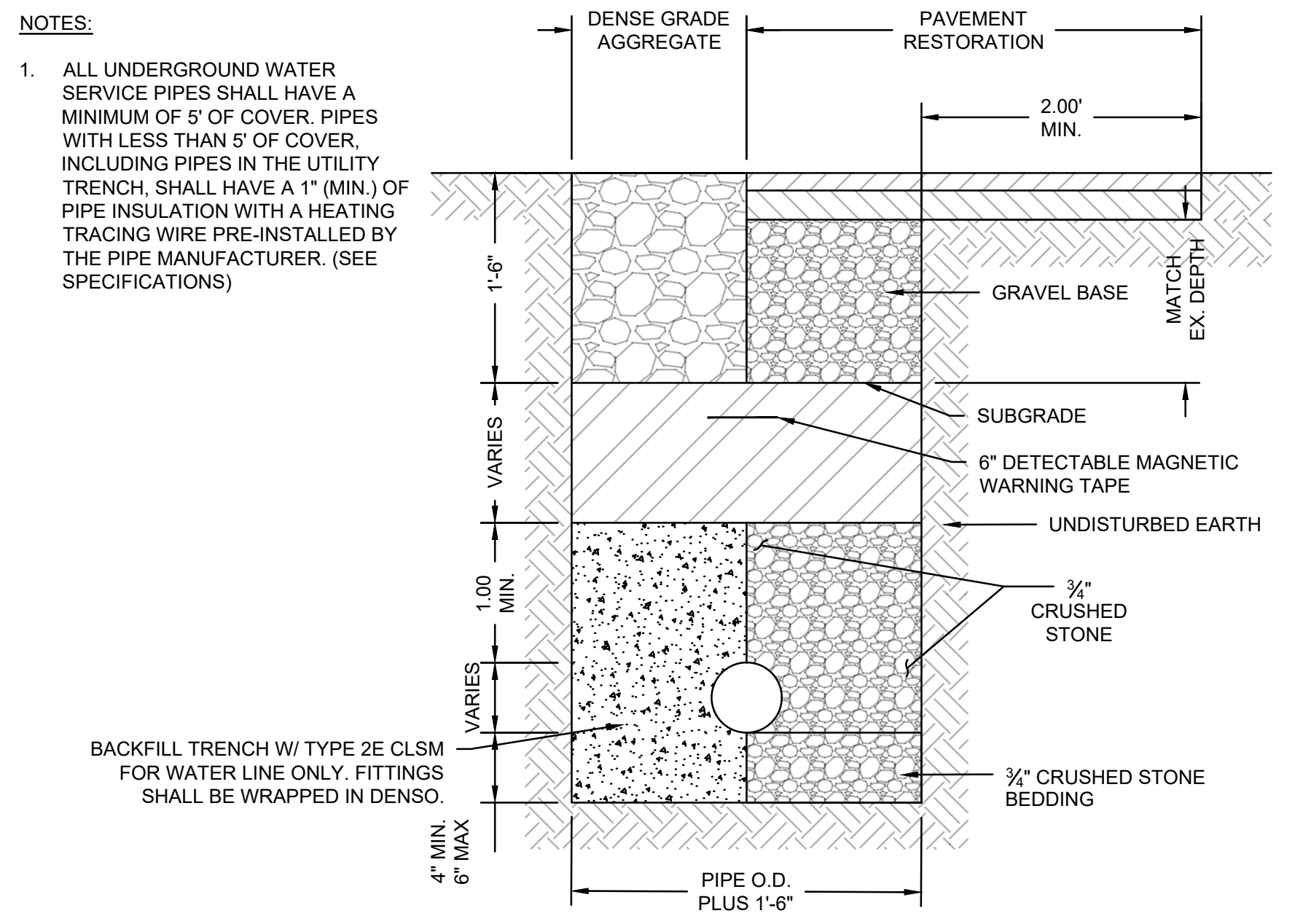
TYPICAL FULL DEPTH PAVEMENT DETAIL
SCALE: N.T.S.



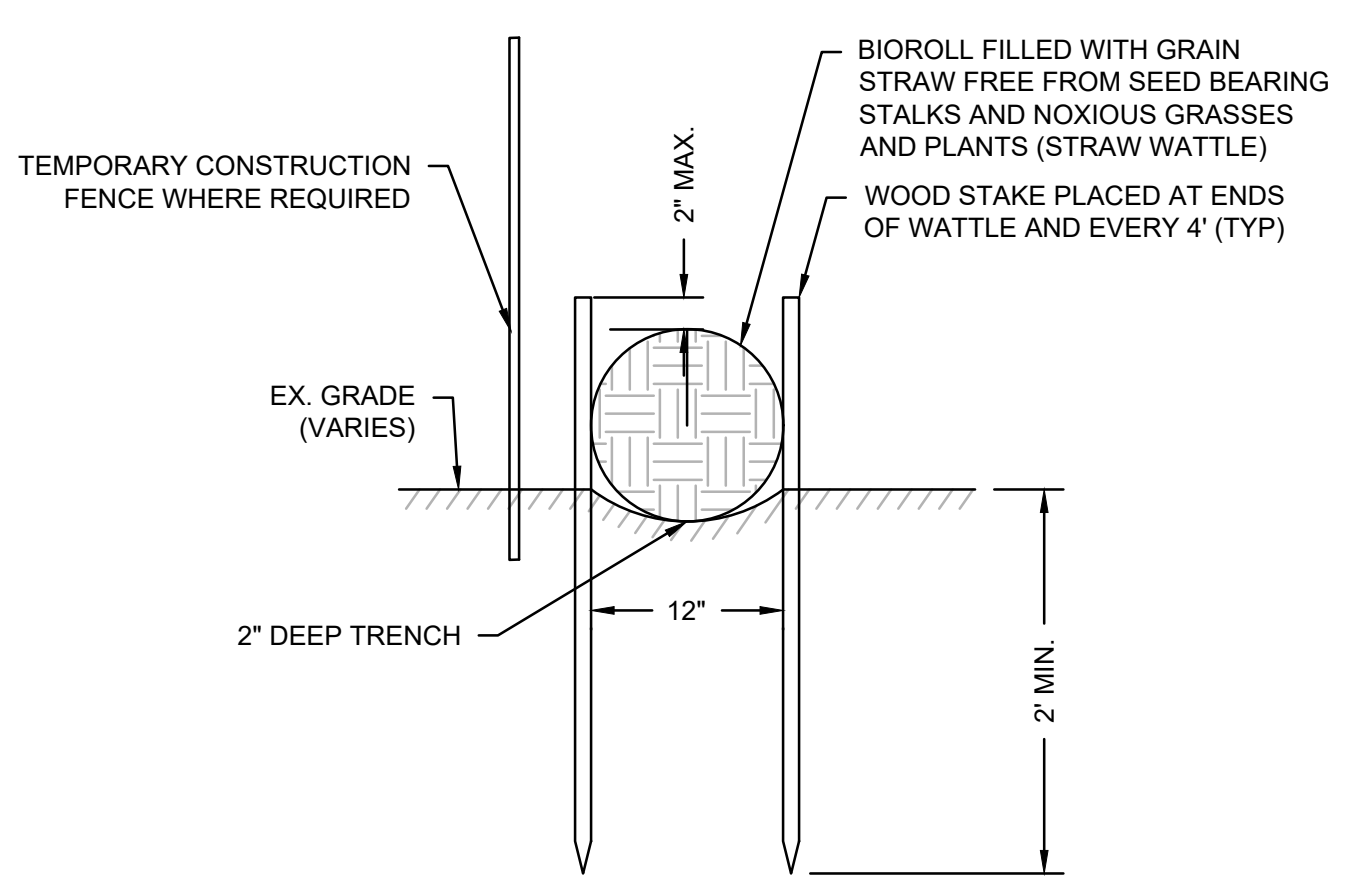
STEEL BOLLARD DETAIL
SCALE: N.T.S.



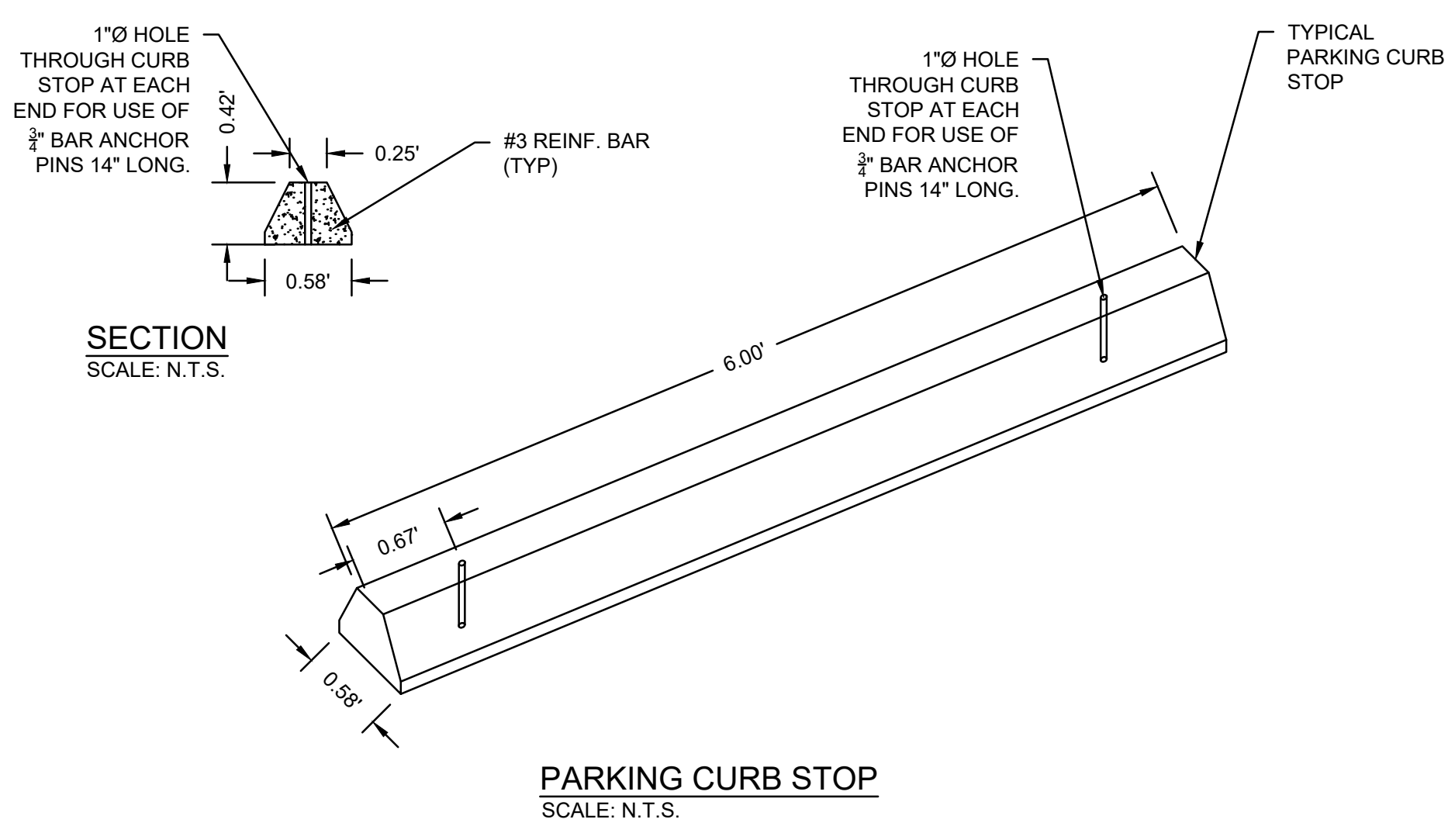
TYPICAL STORM DRAIN TRENCH DETAIL
SCALE: N.T.S.



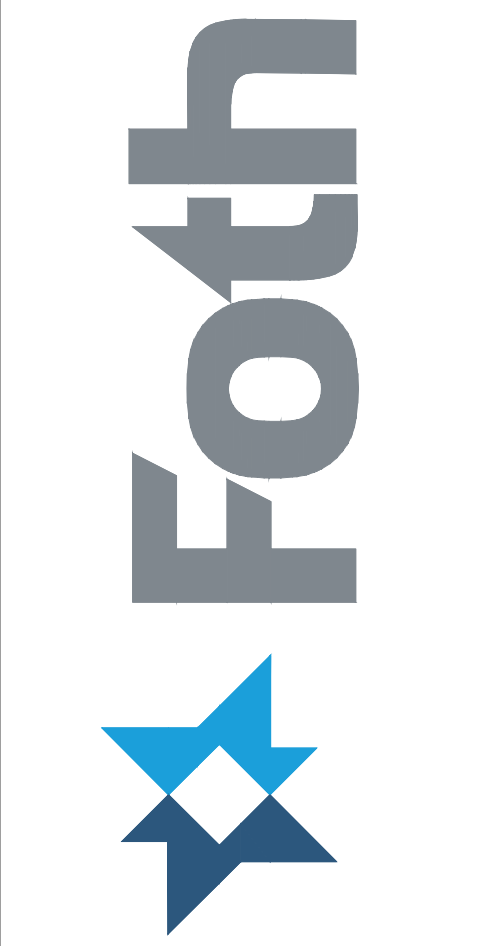
TYPICAL WATER TRENCH DETAIL
SCALE: N.T.S.



STRAW WATTLE DETAIL
SCALE: N.T.S.



PARKING CURB STOP
SCALE: N.T.S.



DEPARTMENT OF PUBLIC WORKS
TOWN OF ORLEANS, MASSACHUSETTS
ROCK HARBOR COMMERCIAL WHARF IMPROVEMENTS

NO.	DATE	BY	DESCRIPTION
1	03/22/2024	JSD	ADDENDUM #3
2			
3			
4			
5			

DATE OF PREPARATION		
BY	DATE	
SURVEYED	MEC/JAH	10/24/19 & 3/2/21
DRAWN	BAM	12/05/2023
DESIGNED	SRS	06/28/2021
CHECKED	PSR	12/24/2023

SHEET TITLE:
STANDARD CIVIL DETAILS

ISSUANCE:
ISSUED FOR BID

PROJECT NO: 00190004.10
SHEET NUMBER

DEPARTMENT OF PUBLIC WORKS
 TOWN OF ORLEANS, MASSACHUSETTS
 ROCK HARBOR COMMERCIAL WHARF
 IMPROVEMENTS

REVISIONS		DATE	DESCRIPTION
NO.	BY	DATE	DESCRIPTION
1	JSD	03/22/2024	ADDENDUM #3
2			
3			
4			
5			

DATE OF PREPARATION: _____

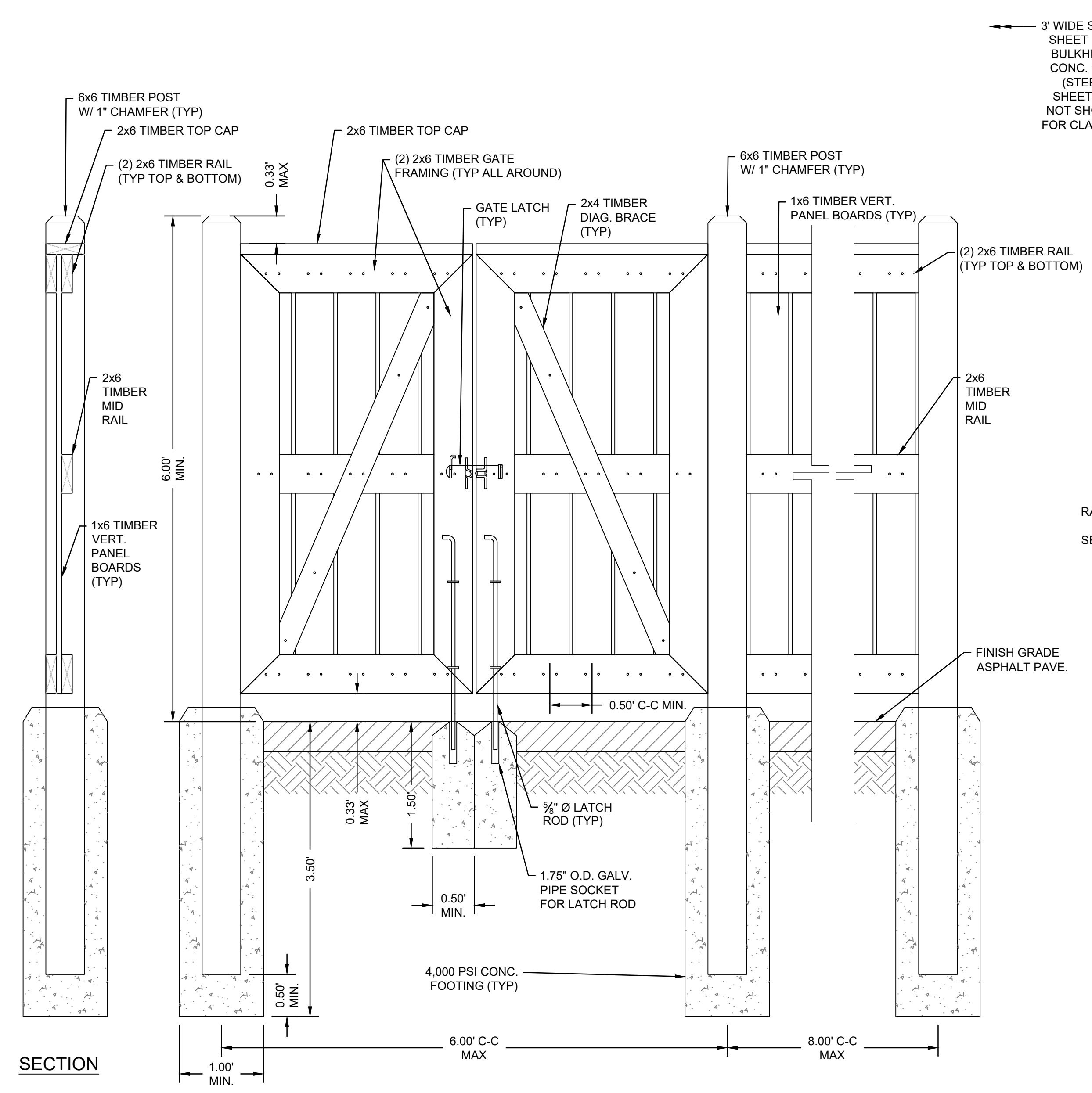
SURVEYED	BY	DATE
MEC/JAH		10/24/19 & 3/2/21
DRAWN	BY	DATE
BAM		12/05/2023
DESIGNED	BY	DATE
SRS		06/28/2021
CHECKED	BY	DATE
PSR		12/24/2023

SHEET TITLE: _____

PUMPOUT STATION DETAILS

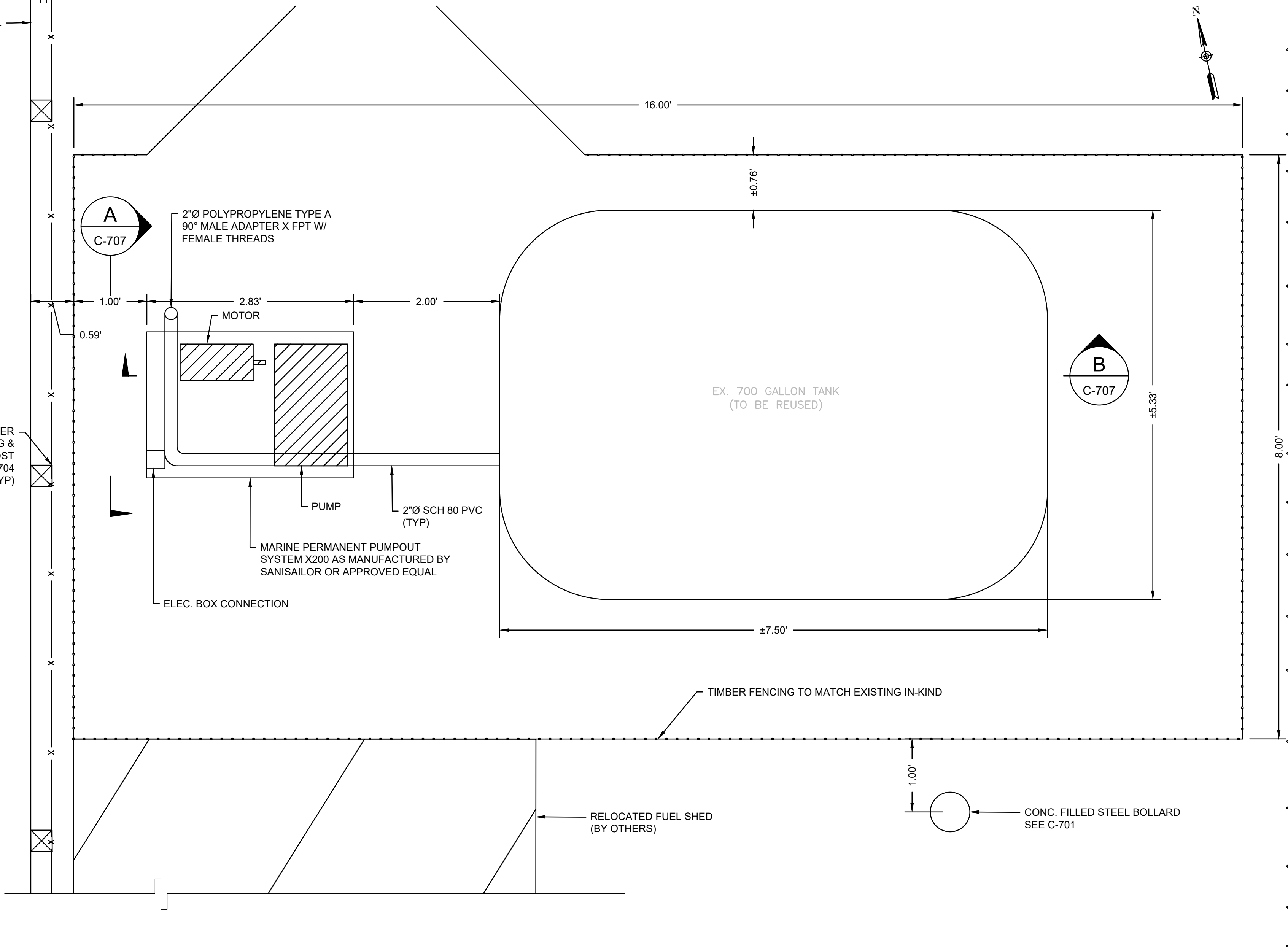
ISSUANCE: **ISSUED FOR BID**

PROJECT NO: 00190004.10
 SHEET NUMBER: _____
 C-707

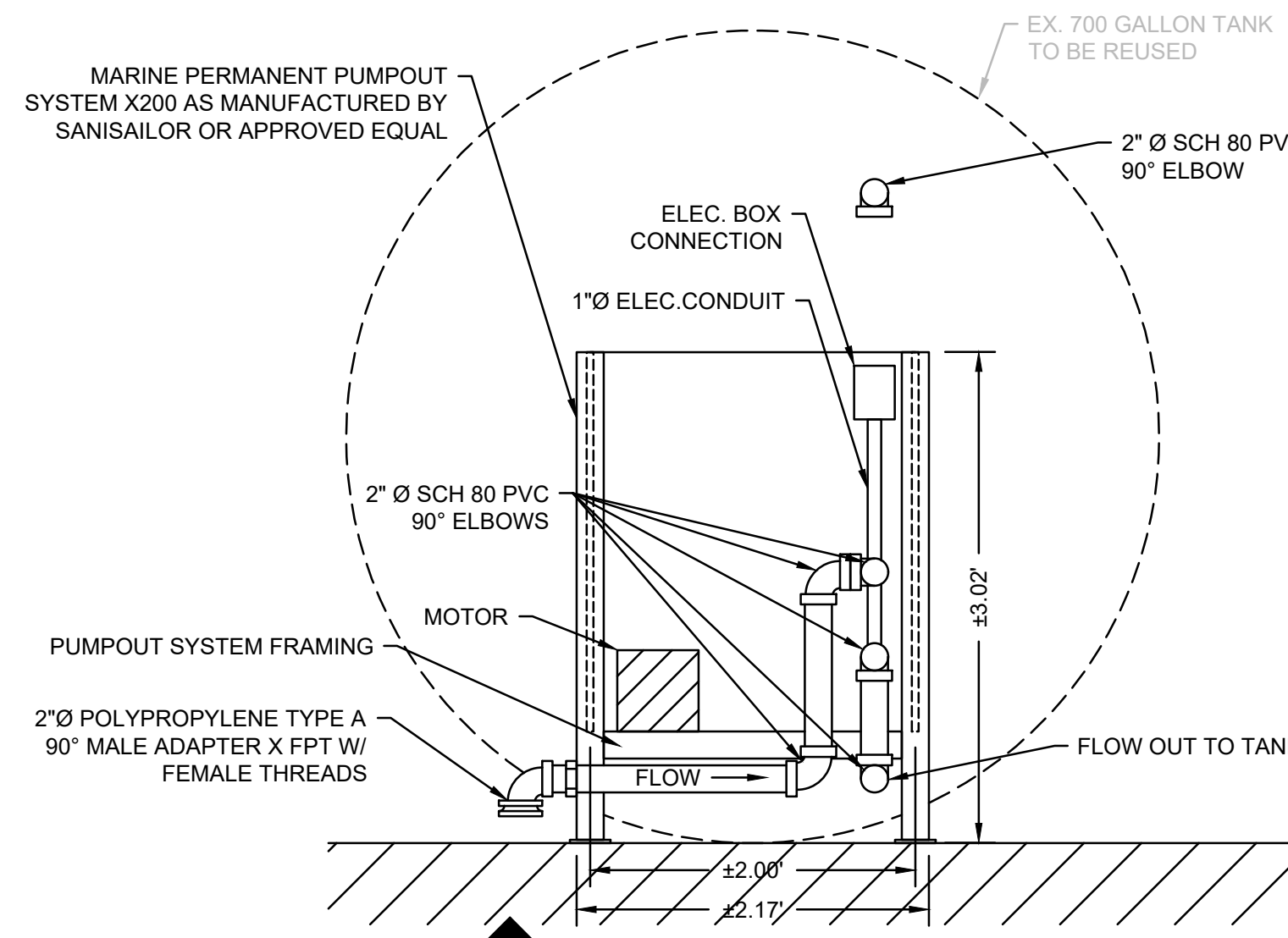


PUMPOUT STATION FENCE
 SCALE: 1" = 1'

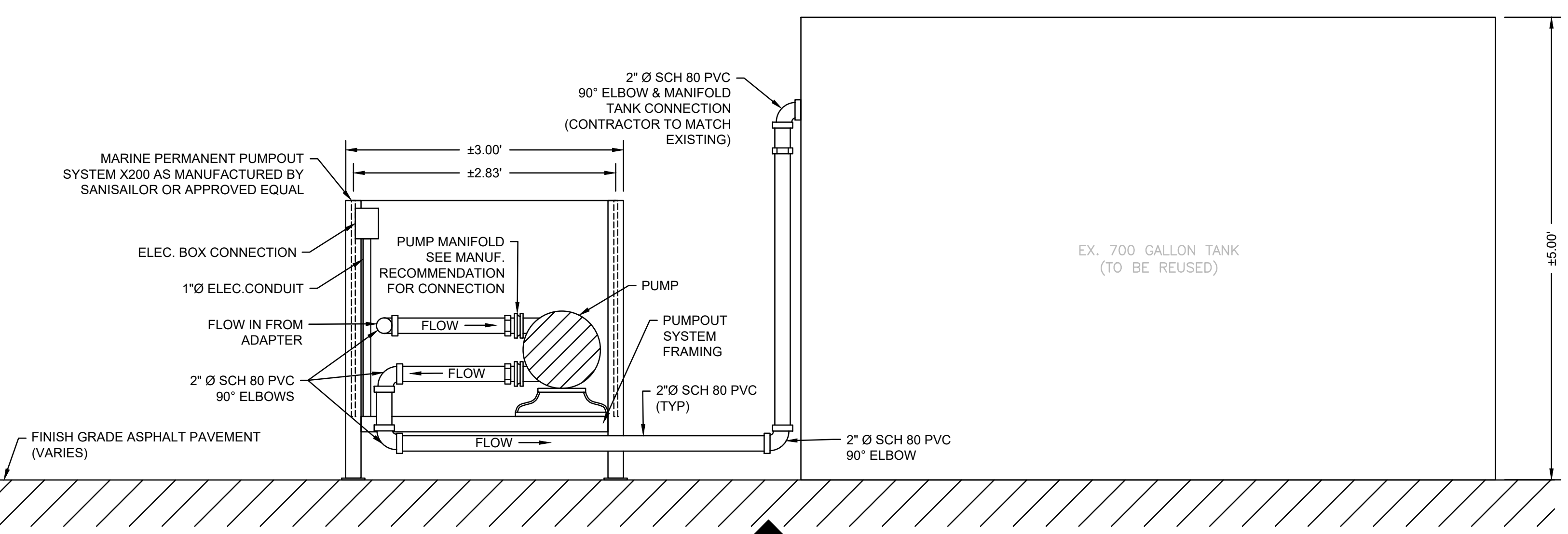
NOTE:
 1. TIMBER SHALL BE NO. 1 GRADE CEDAR AND FREE OF EXCESSIVE CHIPS, CRACKS, WARPS OR KNOTS.
 2. CONTRACTOR TO INSTALL HEAVY DUTY HINGES FOR THE SWING GATE.
 3. ALL FASTENERS & HARDWARE SHALL BE HOT DIPPED GALVANIZED.



PUMPOUT STATION PLAN VIEW
 SCALE: 1" = 1'



PUMPOUT STATION DETAIL
 SCALE: 1" = 1'



PUMPOUT STATION SECTION
 SCALE: 1" = 1'

NOTE:
 1. NEW PUMPOUT STATION CONFIGURATION TO MATCH EXISTING SETUP.
 2. PUMPOUT LINE TO BOATS APPROX. 50'-0" LONG.

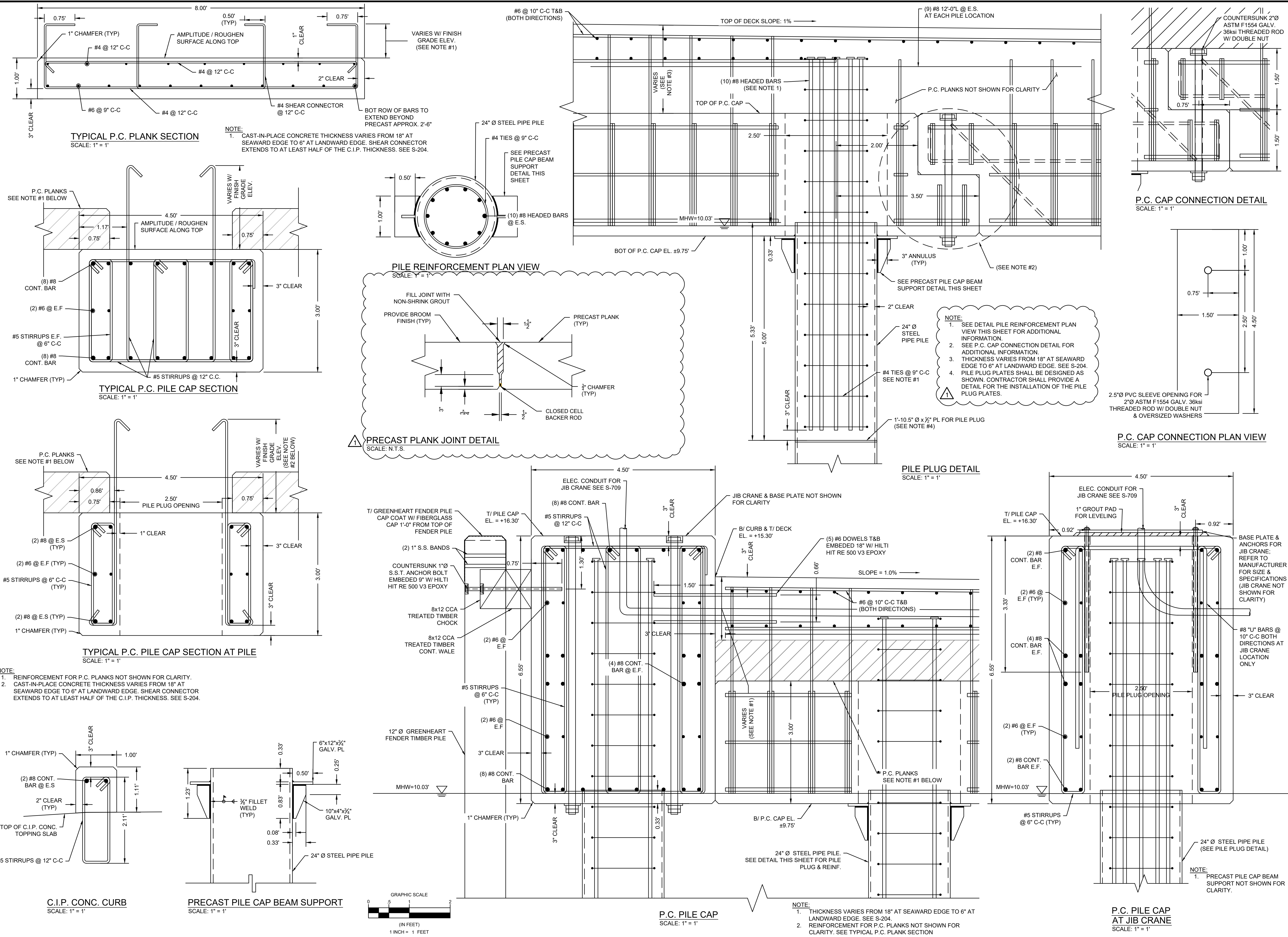
REVISIONS		DESCRIPTION	DATE
NO.	BY	DATE	DESCRIPTION
1	JSD	04/22/2024	ADDITION #3

DATE OF PREPARATION		BY	DATE
SURVEYED	MEC/JAH	10/24/19	3/2/21
DRAWN	BAM	12/05/2023	
DESIGNED	SRS	06/28/2021	
CHECKED	PSR	12/24/2023	

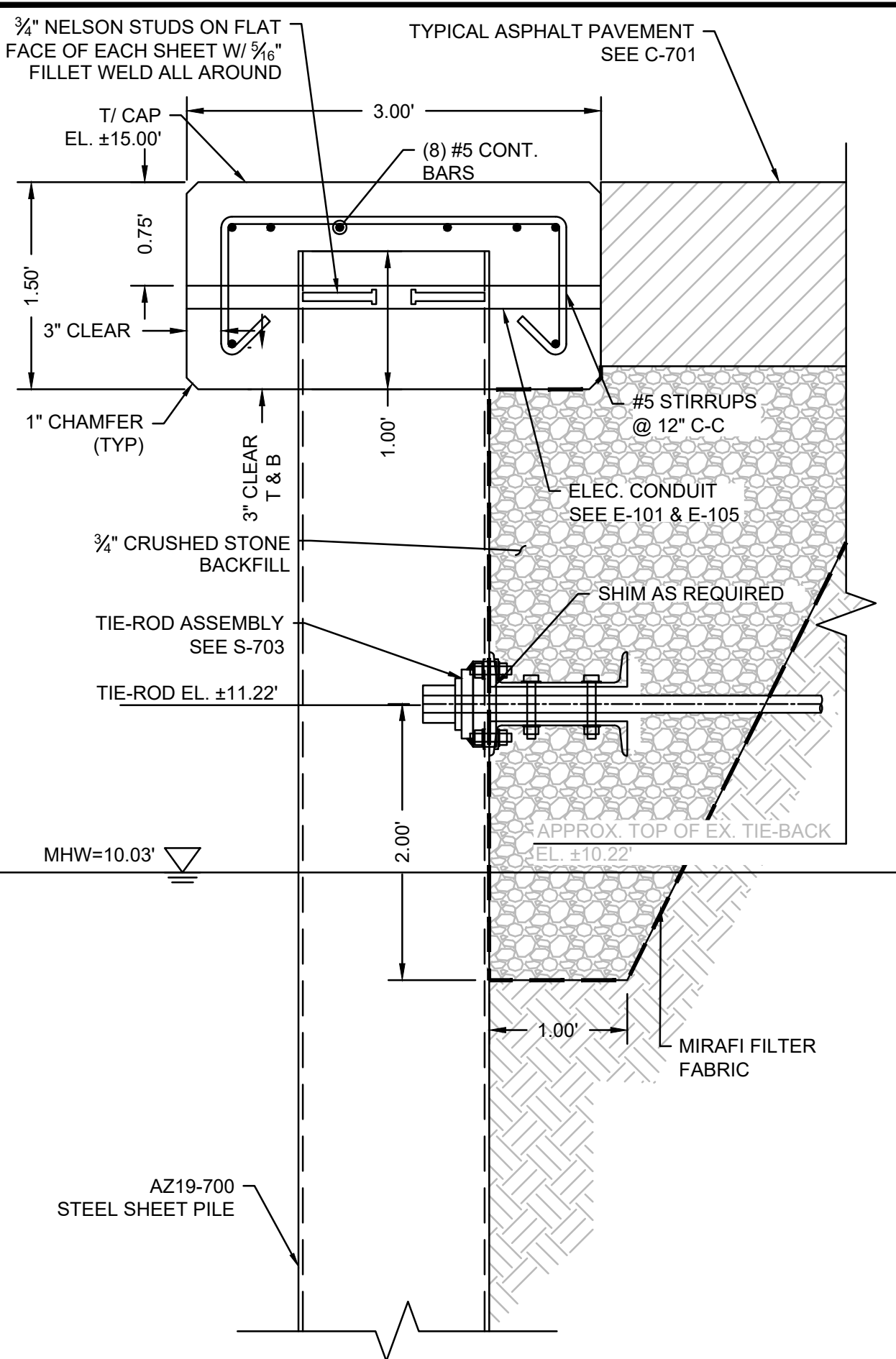
SHEET TITLE:
**SECTION VIEWS
4 OF 4**

ISSUANCE:
ISSUED FOR BID

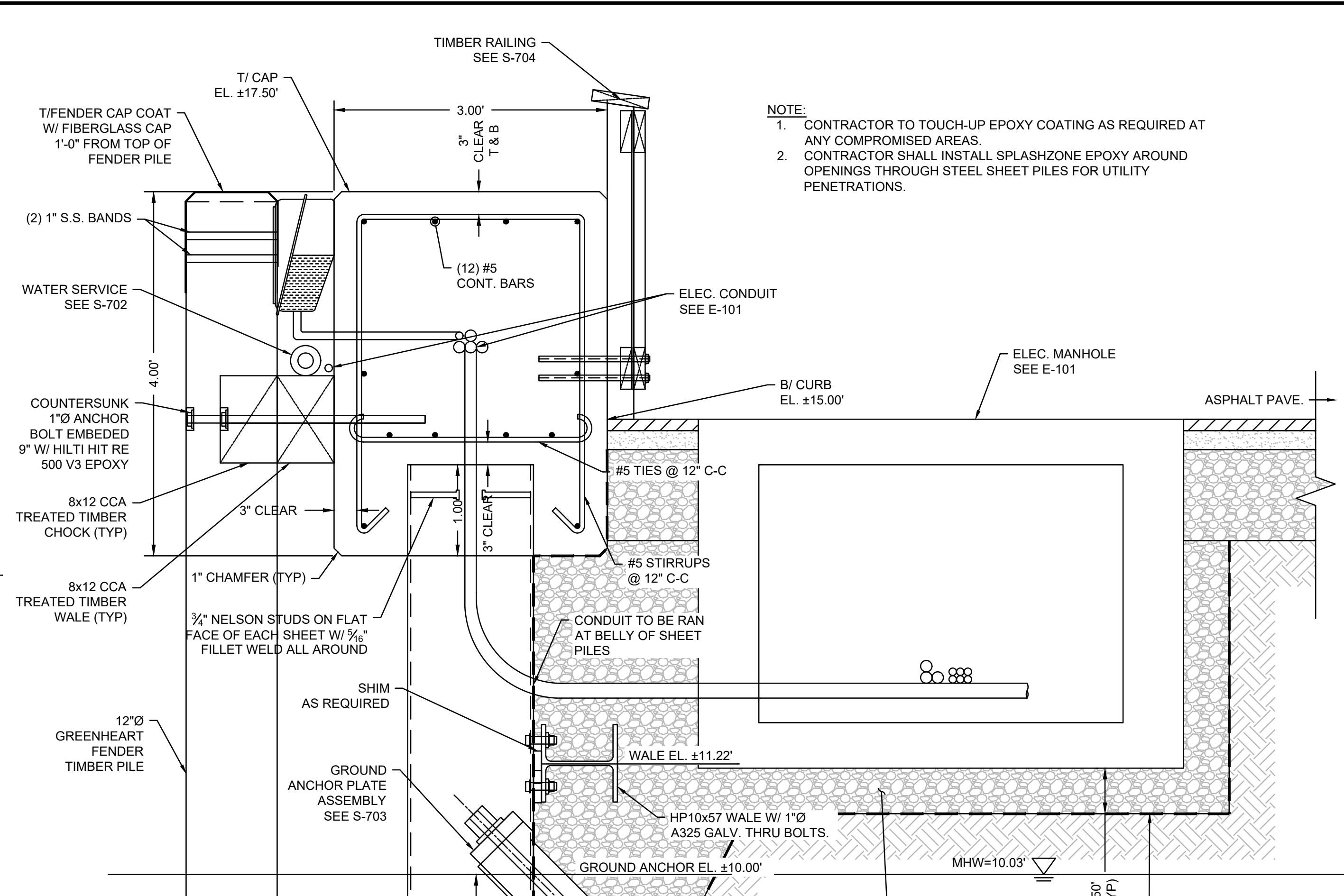
PROJECT NO: 00190004.10
SHEET NUMBER



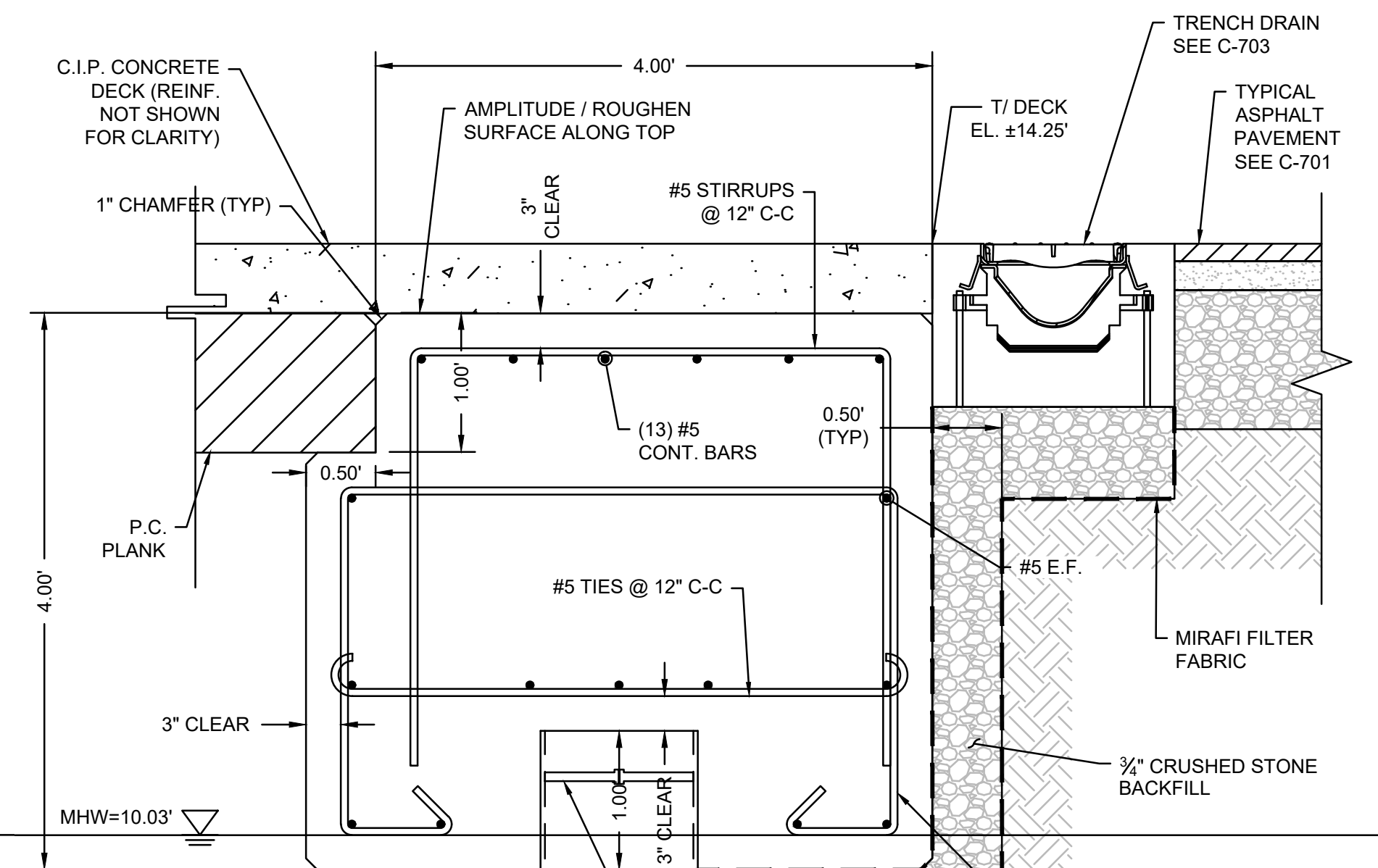
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DWG Folder Location:



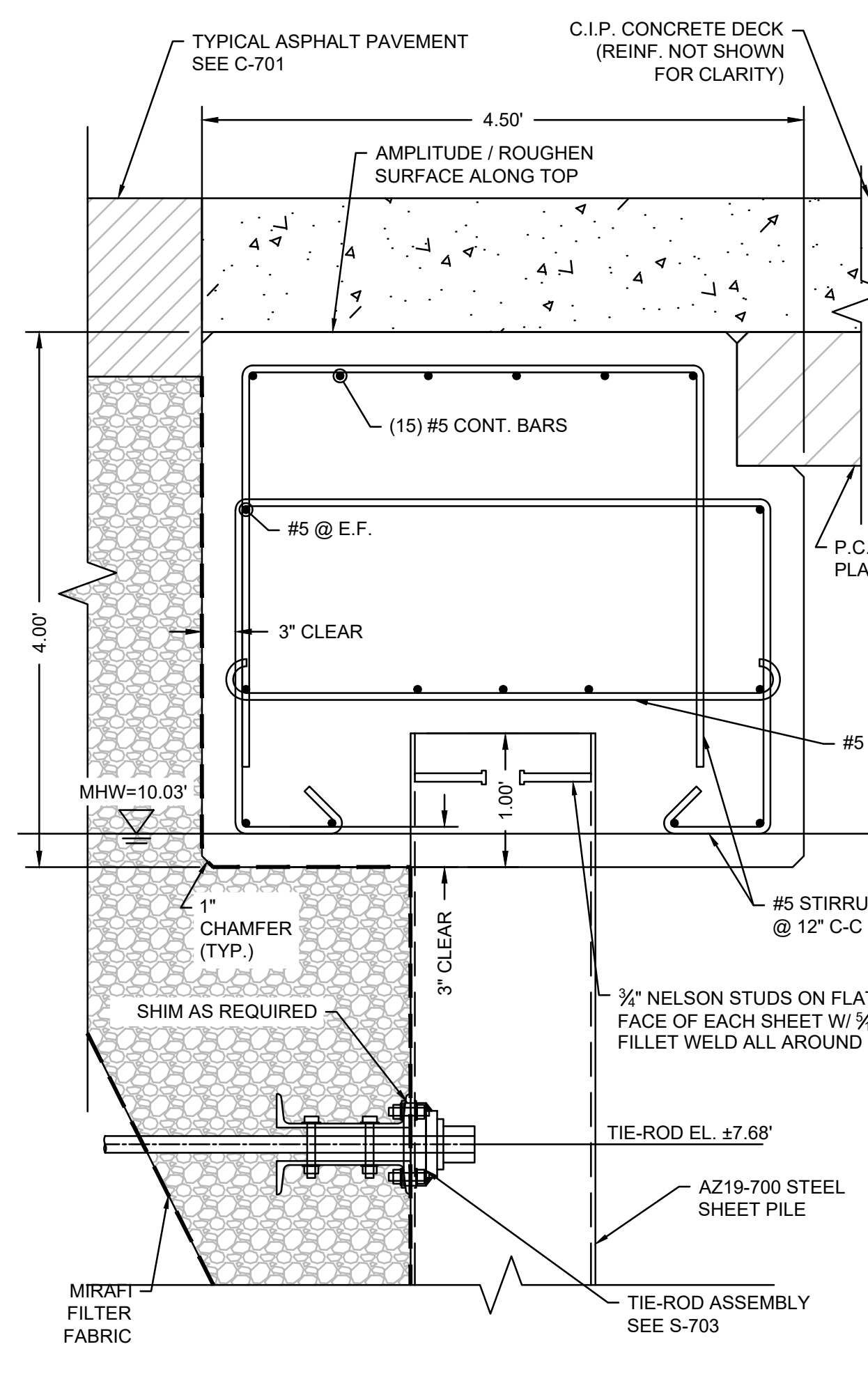
A SHEET PILE BULKHEAD SECTION AT COMMERCIAL LANDING PIER
SCALE: 1" = 1'



B SHEET PILE BULKHEAD TYPICAL SECTION
SCALE: 1" = 1'



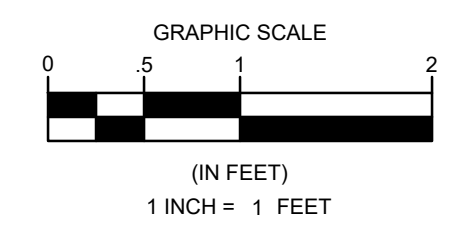
F SHEET PILE BULKHEAD SECTION AT TRENCH DRAIN
SCALE: 1" = 1'



G SHEET PILE BULKHEAD SECTION AT LOWER WALE
SCALE: 1" = 1'

NOTE:
1. CONTRACTOR TO TOUCH-UP EPOXY COATING AS REQUIRED AT ANY COMPROMISED AREAS.
2. CONTRACTOR SHALL INSTALL SPLASHZONE EPOXY AROUND OPENINGS THROUGH STEEL SHEET PILES FOR UTILITY PENETRATIONS.

NOTE:
1. CONTRACTOR TO DESIGN GROUND ANCHOR ASSEMBLY INCLUDING GROUND ANCHOR, STAND-OFF PLATES AND CAP PLATES. CONTRACTOR SHALL SUBMIT CALCULATIONS AND DRAWINGS FOR GROUND ANCHOR DESIGN, STAMPED BY AN ENGINEER REGISTERED IN THE STATE OF MA. FOR SOILS INFORMATION SEE ATTACHMENT "A" OF THE CONTRACT DOCUMENTS.



REVISIONS		DATE	DESCRIPTION
NO.	BY	DATE	DESCRIPTION
1	JSD	03/22/2024	ADDENDUM #3

DATE OF PREPARATION

NO.	BY	DATE
1	MEC/JAH	10/24/19 & 3/2/21
2	BAM	12/05/2023
3	SRS	06/28/2021
4	PSR	12/24/2023

SHEET TITLE:

STRUCTURAL DETAILS 1 OF 8

ISSUED FOR BID

PROJECT NO: 00190004.10
SHEET NUMBER

S-701

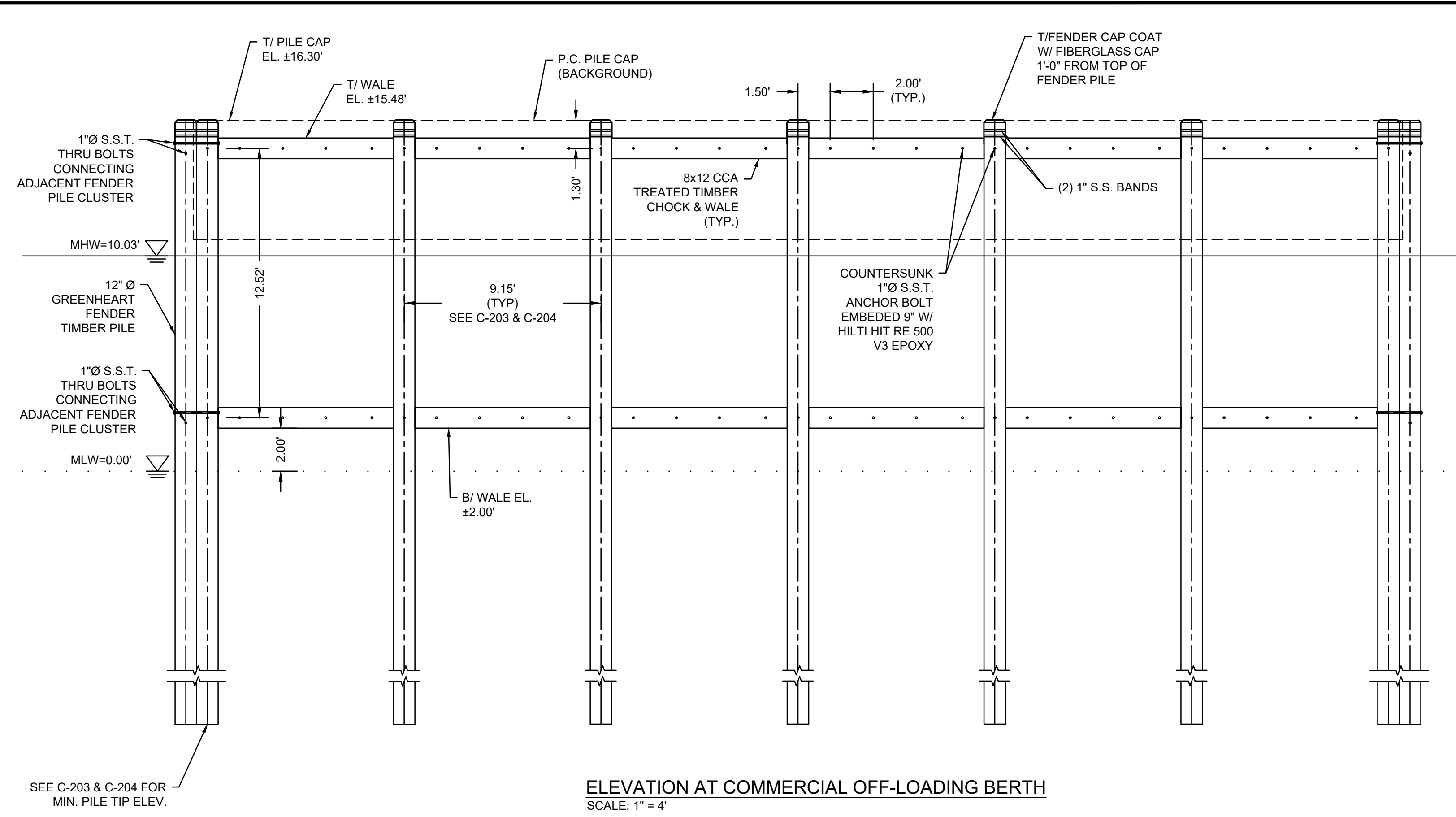
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NO.	DATE	DESCRIPTION	BY	
1	03/22/2024	ADDENDUM #3	JSD	
2				
3				
4				
5				

DATE OF PREPARATION	
BY	DATE
SURVEYED	MEC/JAH 10/24/19 & 3/2/21
DRAWN	BAM 12/05/2023
DESIGNED	SRS 06/28/2021
CHECKED	PSR 12/24/2023

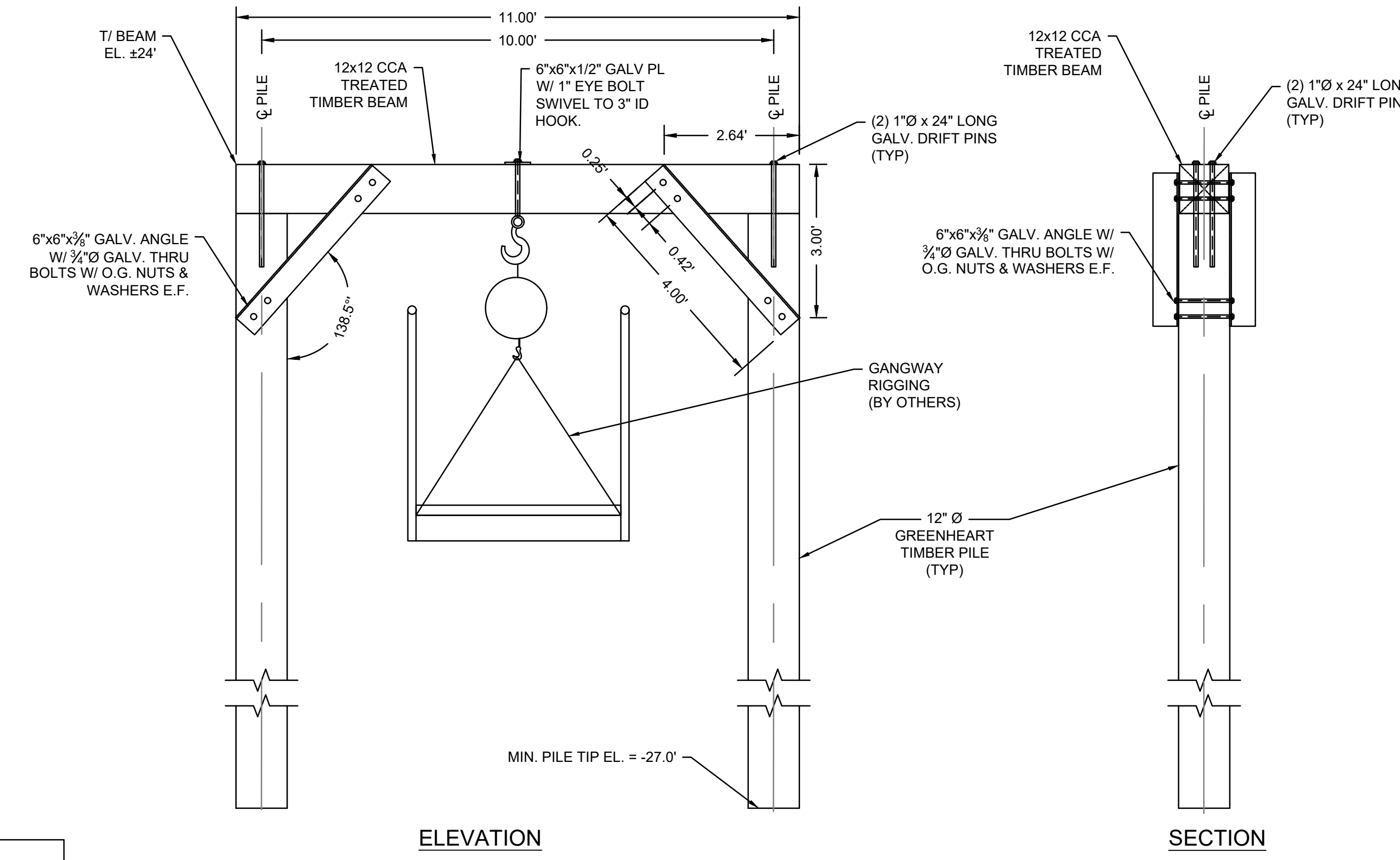
SHEET TITLE:
STRUCTURAL DETAILS 2 OF 8

ISSUANCE:
ISSUED FOR BID

PROJECT NO: 00190004.10
SHEET NUMBER



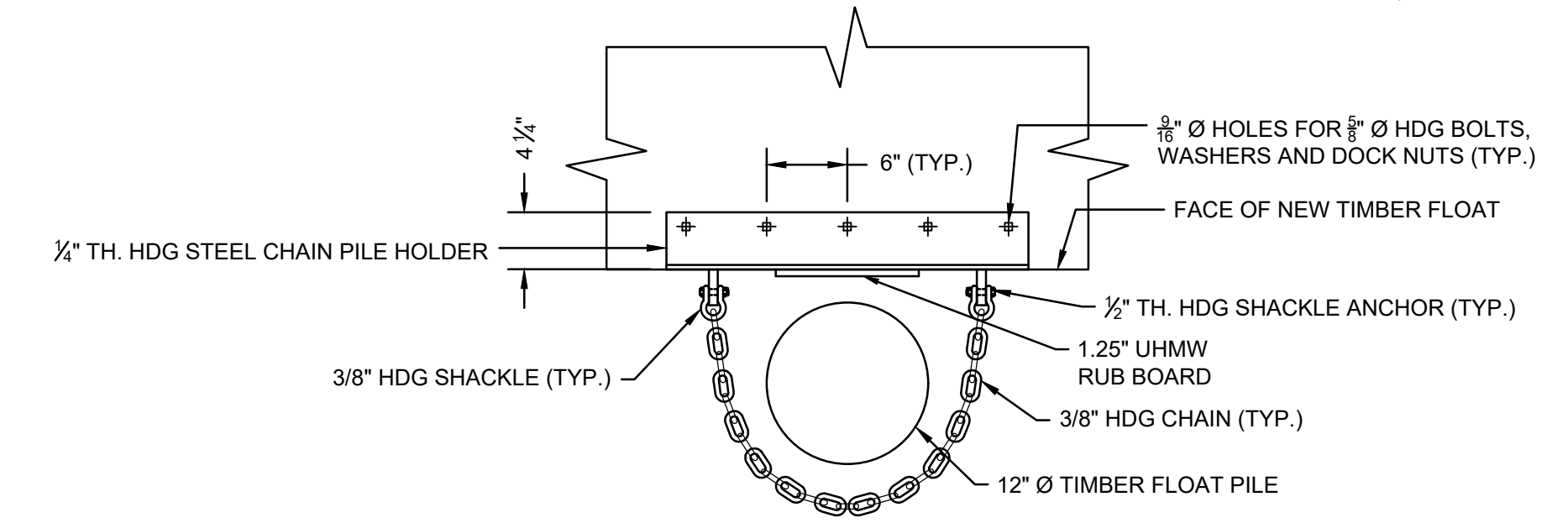
ELEVATION AT COMMERCIAL OFF-LOADING BERTH
SCALE: 1" = 4"



ELEVATION

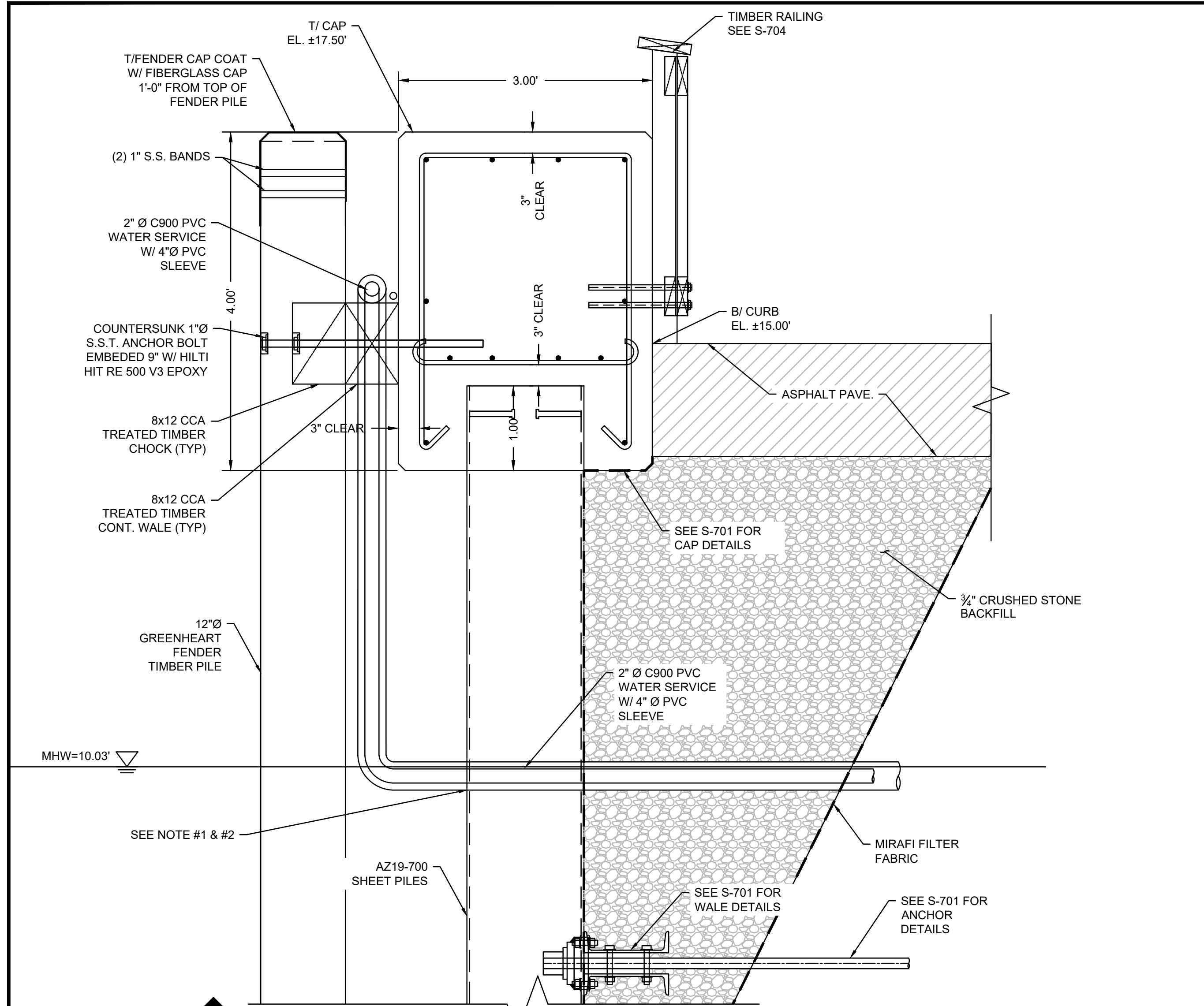
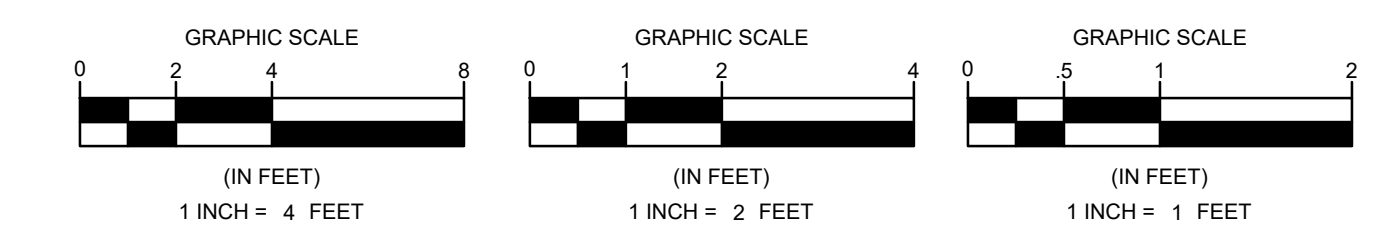
GANTRY BEAM DETAIL
SCALE: 1" = 2"

SECTION



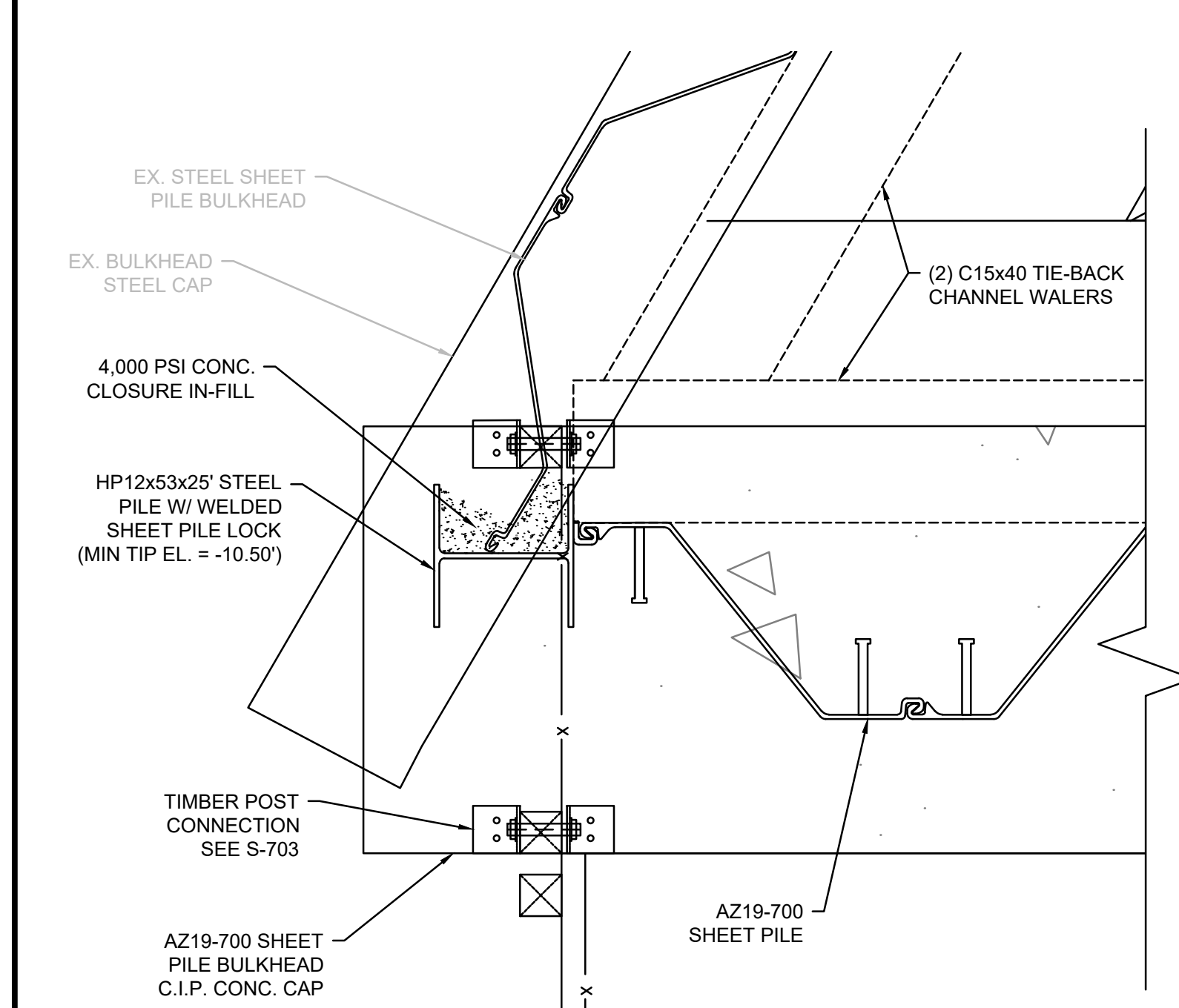
NOTE:
CONTRACTOR SHALL INSTALL SECTIONS OF 2" SCH 40 PVC PIPE ALONG CHAIN TO PREVENT BINDING OF CHAIN AND CHAFFING OF STEEL PILE.

FLOAT PILE GUIDE DETAIL
SCALE: 1" = 1"



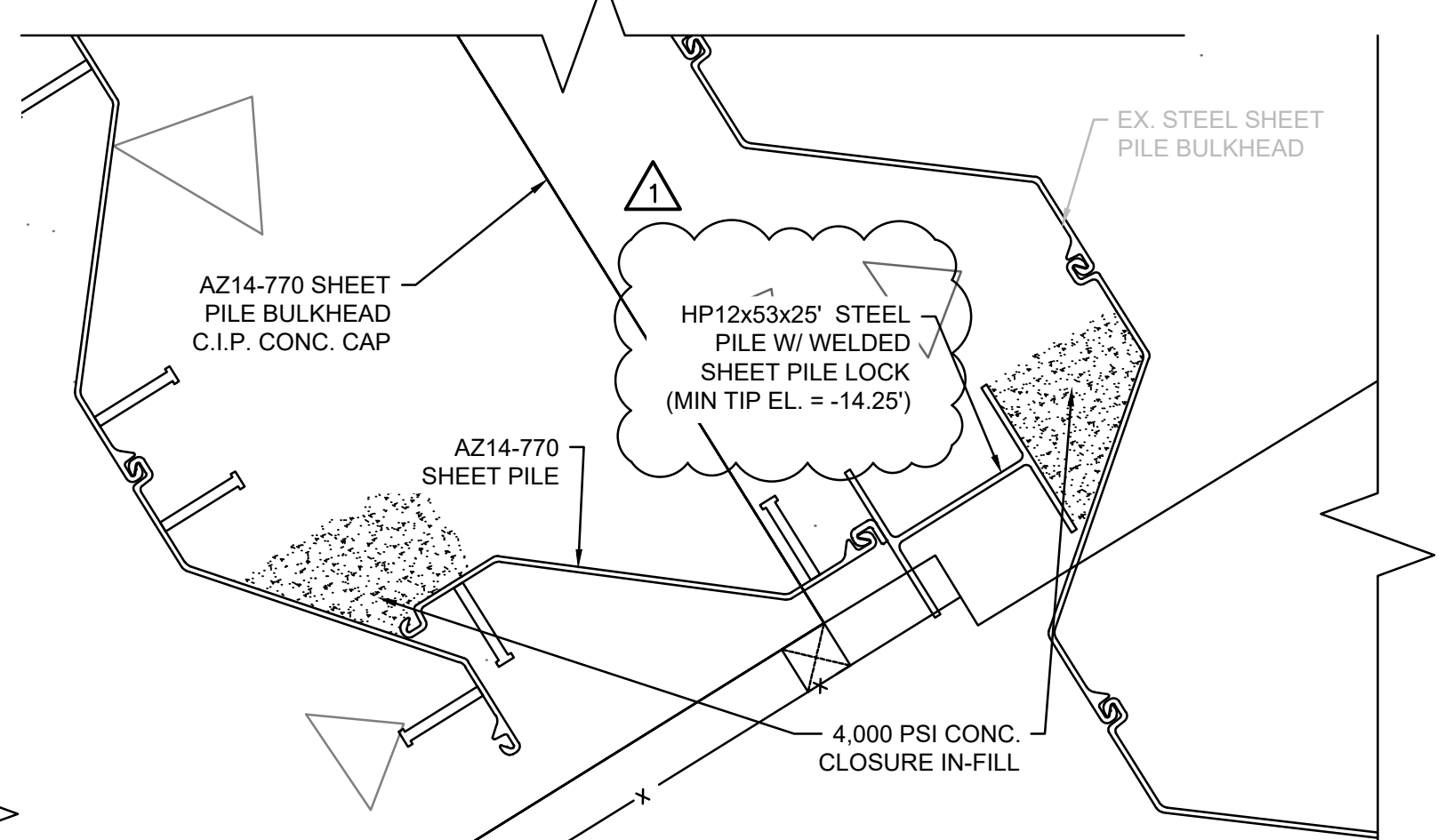
A
WATER SERVICE DETAIL THROUGH SHEETPILE
SCALE: 1" = 1"

NOTE:
1. CONTRACTOR TO TOUCH-UP EPOXY COATING AS REQUIRED AT ANY COMPROMISED AREAS.
2. CONTRACTOR SHALL INSTALL SPLASHZONE EPOXY AROUND OPENINGS THROUGH STEEL SHEET PILES FOR UTILITY PENETRATIONS.



NORTHERN SHEET PILE BULKHEAD CLOSURE DETAIL
SCALE: 1" = 1"

NOTE:
1. LIGHT POLE & CONNECTION NOT SHOWN FOR CLARITY.



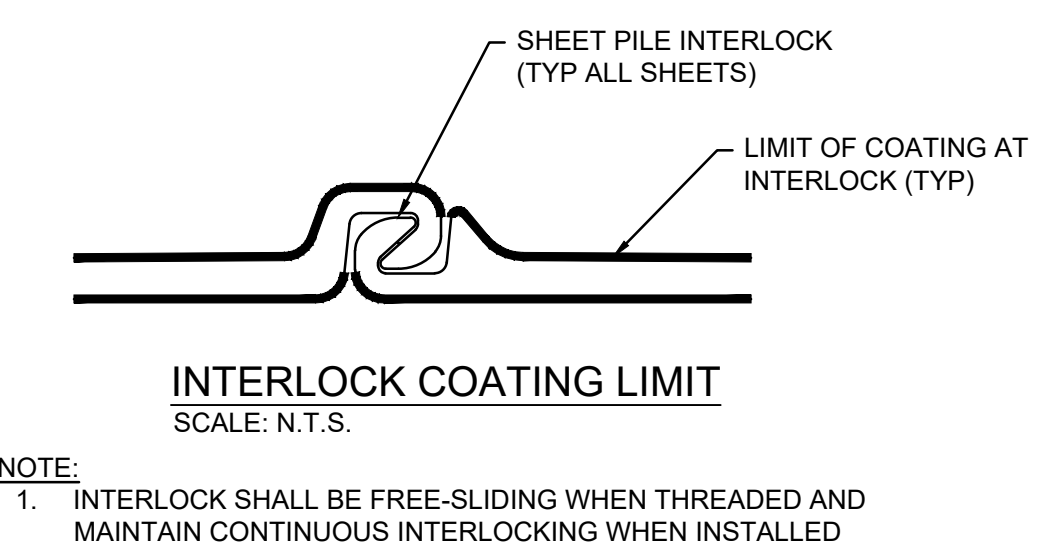
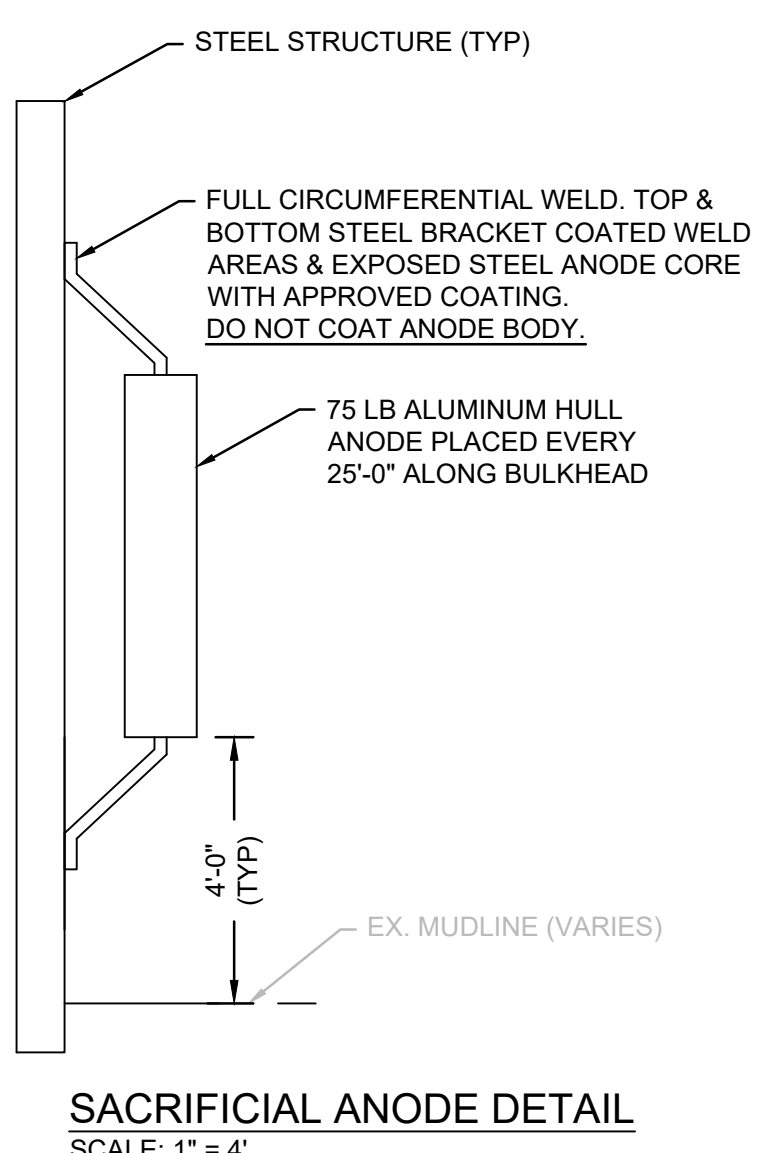
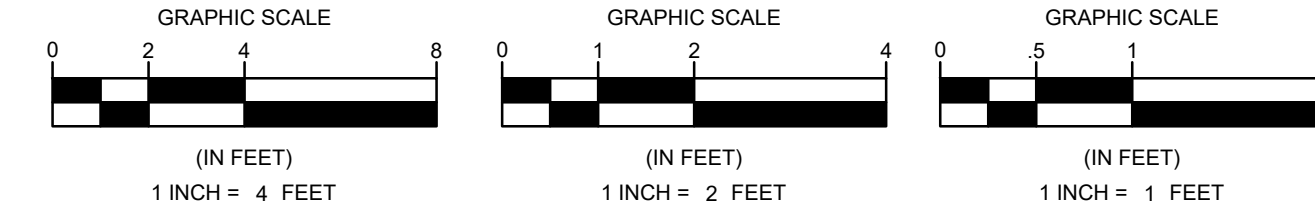
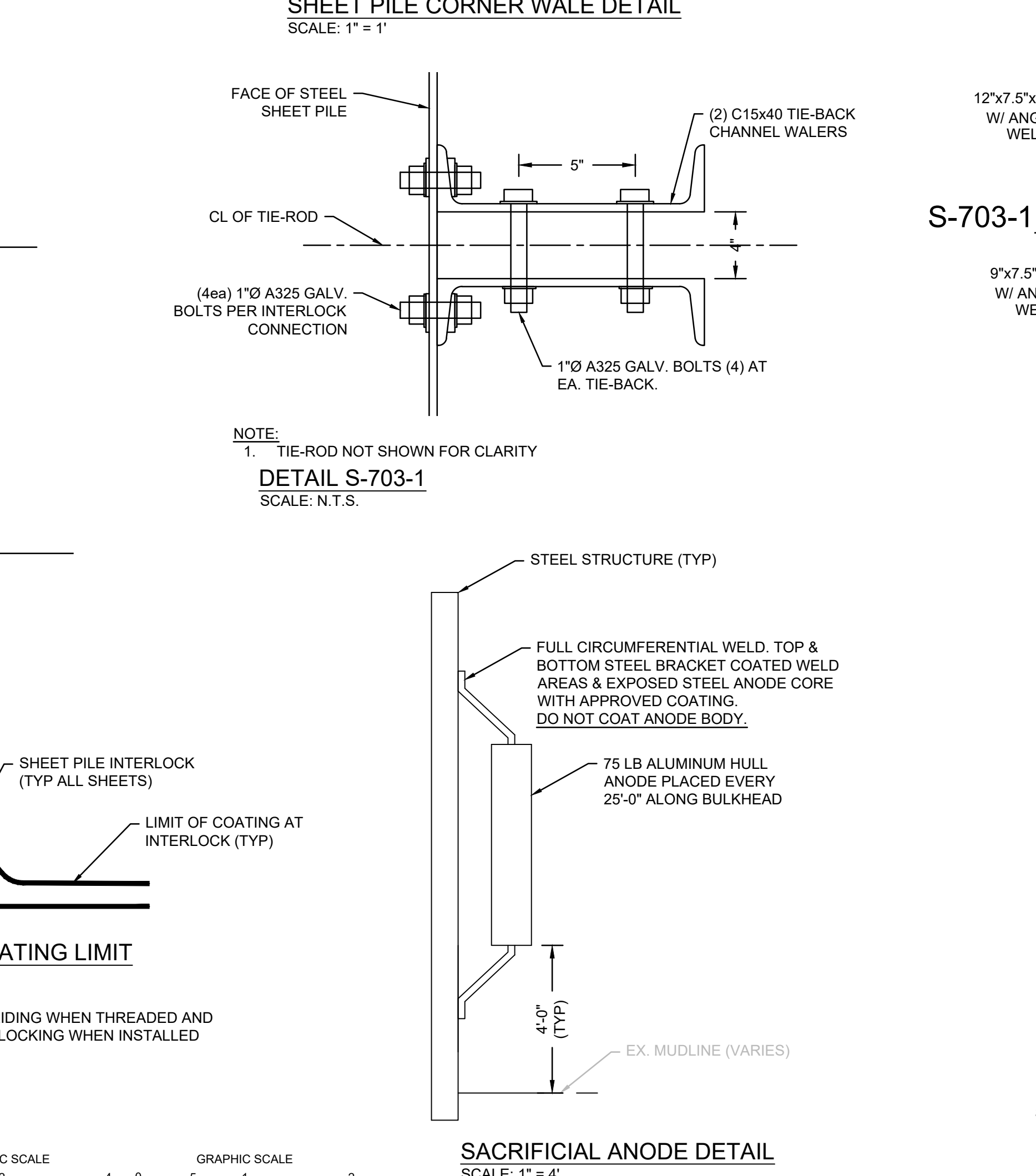
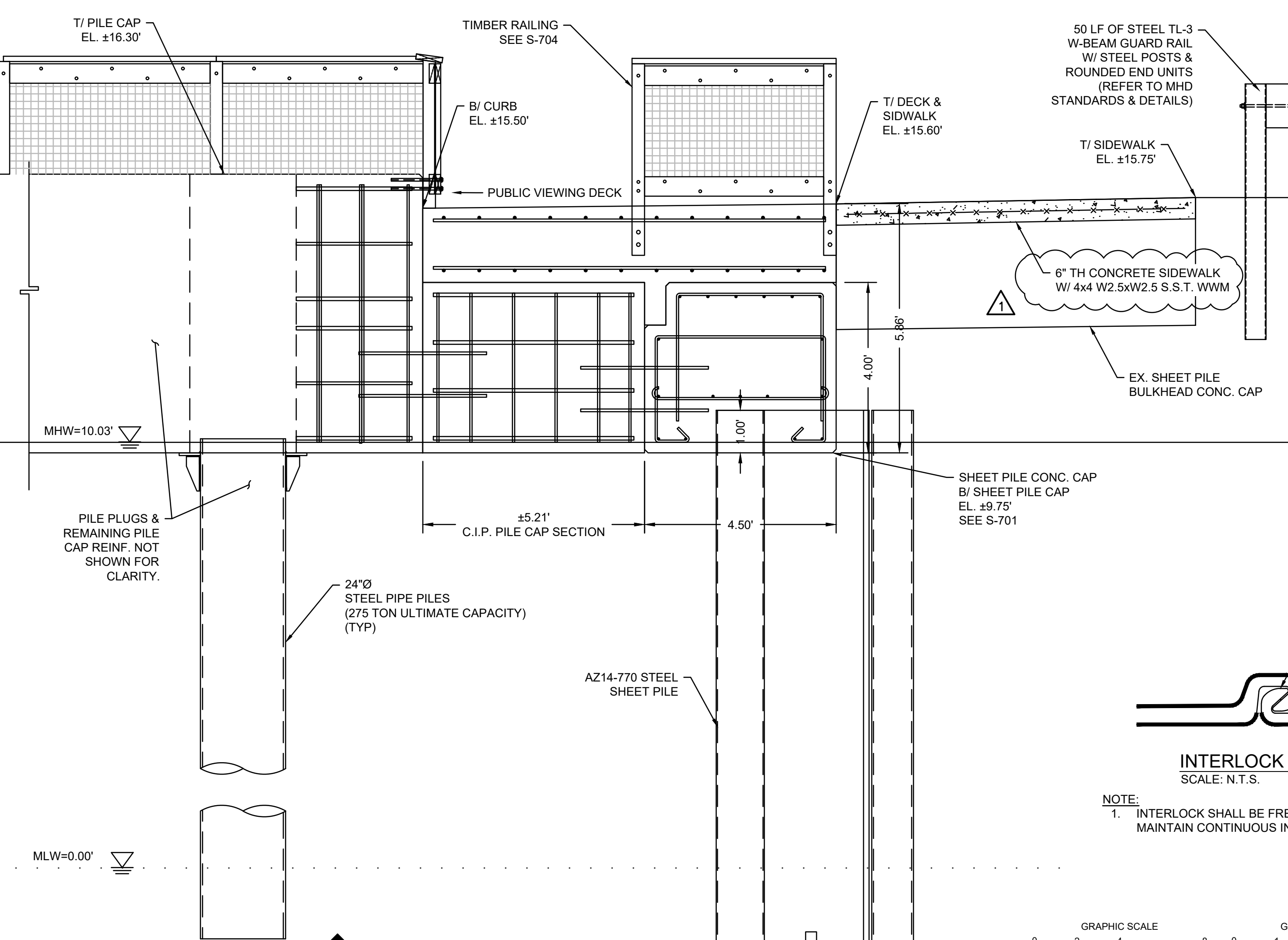
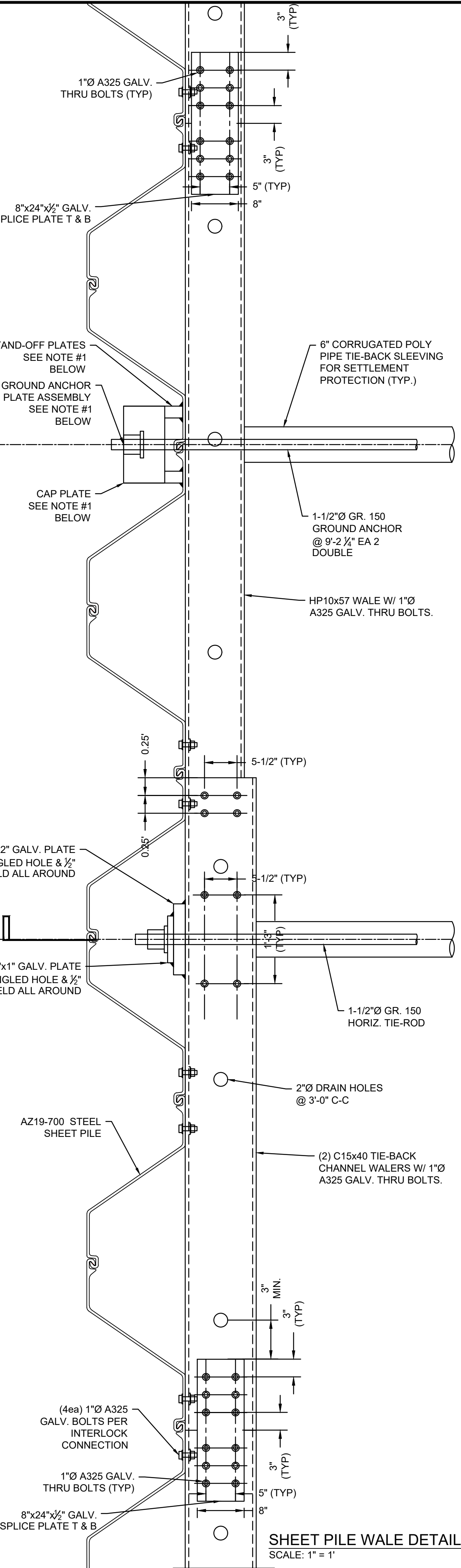
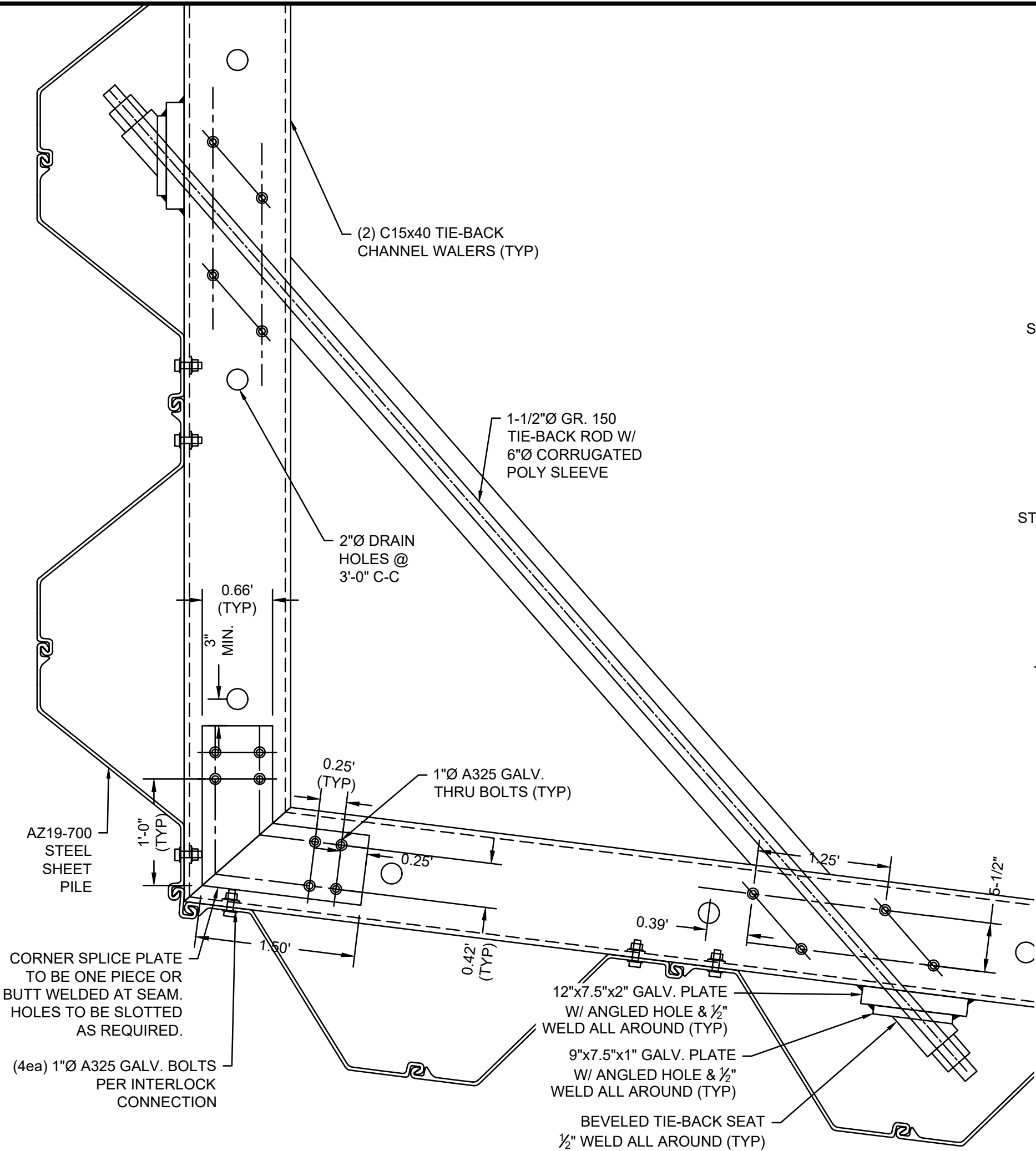
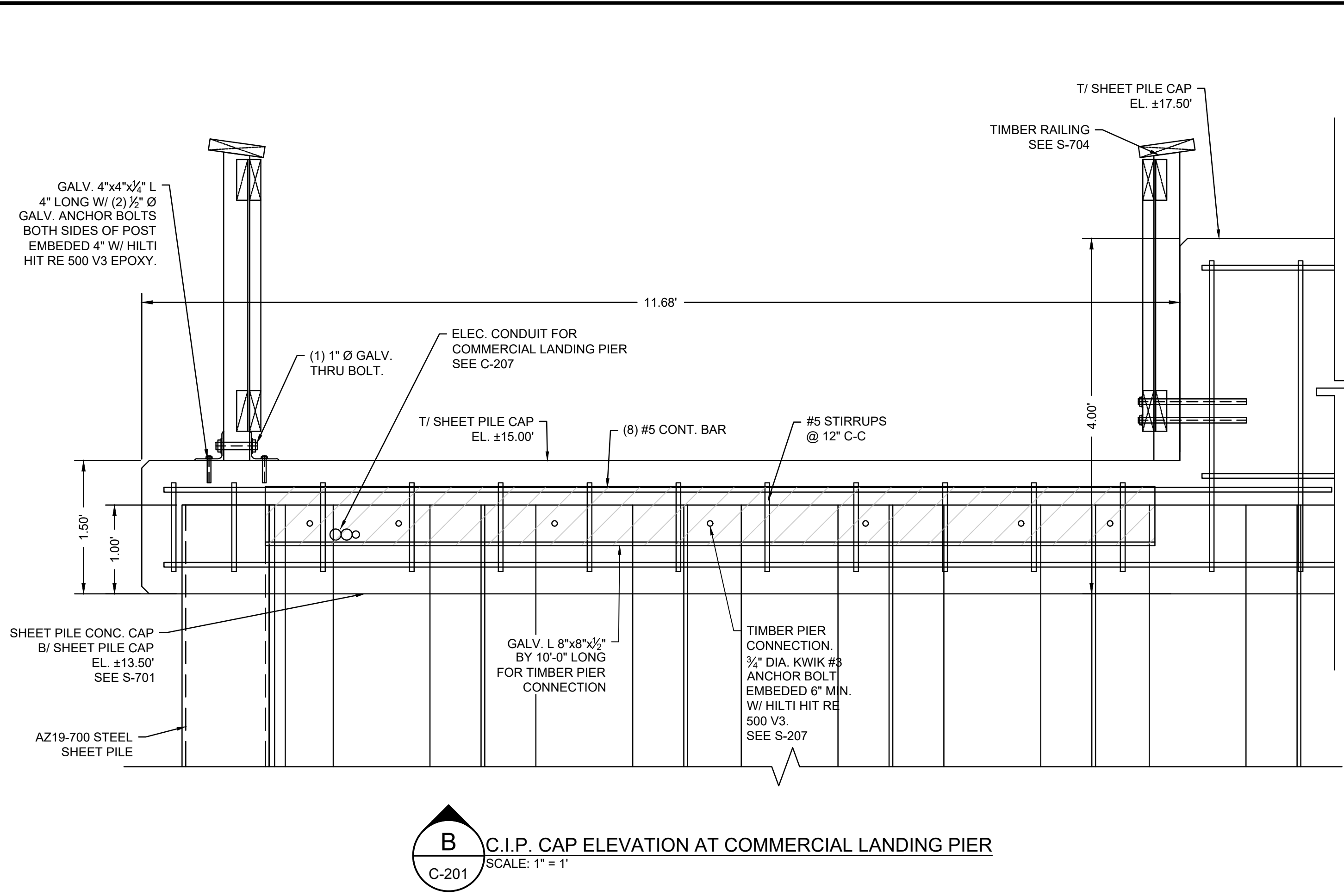
SOUTHERN SHEET PILE BULKHEAD CLOSURE DETAIL
SCALE: 1" = 1"

REVISIONS		DESCRIPTION	DATE	BY	APPENDIX #
NO.	DATE	DESCRIPTION			
1	08/22/2024			JSD	

DATE OF PREPARATION	
SURVEYED	MEC/JAH 10/24/19 & 3/2/21
DRAWN	BAM 12/05/2023
DESIGNED	SRS 06/28/2021
CHECKED	PSR 12/24/2023

SHEET TITLE:
STRUCTURAL DETAILS 3 OF 8

ISSUANCE:
ISSUED FOR BID
PROJECT NO: 00190004.10
SHEET NUMBER
S-703



NOTE:
1. INTERLOCK SHALL BE FREE-SLIDING WHEN THREADED AND MAINTAIN CONTINUOUS INTERLOCKING WHEN INSTALLED

NOTE:
1. TIE-ROD NOT SHOWN FOR CLARITY

NOTE:
1. CONTRACTOR TO DESIGN GROUND ANCHOR ASSEMBLY INCLUDING GROUND ANCHOR, STAND-OFF PLATES AND CAP PLATES. CONTRACTOR SHALL SUBMIT CALCULATIONS AND DRAWINGS FOR GROUND ANCHOR DESIGN, STAMPED BY AN ENGINEER REGISTERED IN THE STATE OF MA. FOR SOILS INFORMATION SEE ATTACHMENT "A" OF THE CONTRACT DOCUMENTS.