

FROM: Allied Engineering, Inc.  
160 Veranda Street  
Portland, Maine 04103  
Telephone: (207) 221-2260

TO: Prospective Bidders, Suppliers, and Other Parties

RE: Addendum No. **Two (2)** to the Bidding Documents for:  
**NEW York Vehicle Storage Garage, York, ME**

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated March 28, 2023. Acknowledge receipt of this Addendum in the space provided on the Proposal Form. Failure to do so may subject Bidder to disqualification.

#### GENERAL

##### 1. Bid Date Changes:

A. Addendum #3	Friday 05/12/2023
B. Addendum #4 Questions Due	Tuesday 06/06/2023 by 12:00.
C. Addendum #4 (if needed)	Thursday 06/08/2023
D. Bids Due	Thursday 06/15/2023, 13:00
E. Award (June Board Meeting)	Thursday 06/22/2023

#### CONTRACTOR QUESTIONS/RESPONSES

1. **Question:** Could you let me know what the approximate overall budget is for the York Vehicle Storage Building project.

**Response:** Answer is the budget numbers for MTA projects can be found on the website, specifically for this project, at <https://www.maineturnpike.com/Projects/Planning.aspx> where a link to the 4-year Capital Investment Plan is located.

2. **Question:** Who is responsible for paying CMP related fees?

**Response:** Contractor is responsible for CMP charges but will be fully reimbursed for the cost. An allowance of \$30,000 was identified in Section 260100, 1.3A.

3. **Question:** If CMP fees are to be by the GC, would an allowance be carried. Since CMP will not provide pricing until a work order is issued, this would ensure all bidders were on a level playing field.

**Response:** An allowance of \$30,000 is identified in Division 26, Section 260100, 1.3A.

4. **Question:** Pg 24 of the Supplemental Specs directs us to use the Authority's bid bond form, but I could not find one in the specs. Please provide a bid bond form to be used.

**Response:** CONTRACT AGREEMENT, CONTRACT BOND and FINAL LIEN AND CLAIM WAIVER titles have been added to the respective documents. Attached in this addendum are revised sections.

5. **Question:** My generator guy is wondering if there is any information on the generator. There is nothing in the specs we can find on it.

**Response:** Scope of work regarding the generator has changed. The currently proposed generator for the project will be replaced with a campus generator that will serve the buildings on the site. A design is in process and will be issued to bidders for consideration and inclusion in their bid on May 12, 2023 via Addendum 3.

6. **Question:** In the specs they have high lifted track and jackshaft operators. If you look at sheet A-5 of the plans, Detail 4 wall section, the doors are 16' high and you have 18' to low point of ceiling. I cannot put a high lift track in here as it will be standard 15" radius. We have to use a trolley operator or maybe a slave trolley which has jackshaft operator and trolley bar.

**Response:** Clarification handled in SECTION 083613 – SECTIONAL DOORS noted below in SPECIFICATIONS modifications.

7. **Question:** It has been stated that no provisions are required for the metal building design for solar panels, but plan S-000 designates the Roof Dead Load to be 20 PSF, including 8 PSF for future solar array. Please clarify the required Roof Dead Load for the PEMB.

**Response:** The PV array consideration has been removed from the project scope. PEMB structure, insulation, and finish material structure weight, plus 3 PSF for collateral. While this is likely to be less than 20 PSF, AEI specifies 20 PSF for these building types to accommodate possible future capacity needs. Please use 20 PSF for dead load design unless the roof and framing composition exceeds 20 PSF, in which case, use the actual dead load.

8. **Question:** Please clarify where the line of demarcation is regarding Building Wage Rates and Highway Wage Rates.

**Response:** Delete Highway Wage Rates in their entirety.

9. **Question:** I did see the requirement for 8 lb collateral load for future PV panels, but typically there is a uniform collateral load in addition to this. Please specify the uniform collateral load required.

**Response:** The PV array consideration has been removed from the project scope.

10. **Question:** Spec section 133419 requires using IECC 2009 while plan A-0 calls for IECC 2021. Please clarify which code we are to use.

**Response:** A-0 indicating IECC 2021 is the correct code edition. Section 133419 will be revised accordingly.

11. **Question:** Plan S-000 specifies IBC 2015 while A-0 calls for IBC 2021 to be used for design. Please clarify which code we are to use.

**Response:** S-000 indicating IBC 2015 is the correct code edition. A-0 will be revised accordingly.

12. **Question:** It appears that standard rebar is required in the foundation, while epoxy coated is required in slabs. Is this correct?

**Response:** That is correct.

13. **Question:** Detail A-8, on plan SB-500 has a note regarding epoxy coated rebar that appears to be covering another note. Please clarify.

**Response:** Note being covered references the two (2) embed angles shall be “L1 ½” x 1 ½” x ¼” galv. Steel curb bars anchored to slab”.

14. **Question:** Plan A-1 has “ typical building bollard” noted in 3 locations, but there is no designation for them. Are we to include bollards in these areas, and if so, would the same criteria used for the ones at the overhead doors be used?

**Response:** The 3 bollards at the pass doors are the same criteria as the bollards at the overhead doors. They are depicted on the Code Compliance Plan. They have been added to the Drawing A-1\_First Floor Plan (Revised) as well (attached).

15. **Question:** The typical clearance required for a 16’-0” overhead door is 2’-6”. An 18’-0” eave height, less depth of eave strut and depth of portal frame will cause clearance issues. Please clarify if the eave height will be increased.

**Response:** The building eave height will be changed to 20’-0” high. See attached revised A-5.

16. **Question:** Plan S-000 calls for the building to be designed as an Essential Facility. Please clarify if this is the correct designation.

**Response:** Building is Essential Facility Category IV as denoted.

17. **Question:** Section 011000 – 1.3, Project Summary calls for painted exposed structure with no ceilings, but the architectural plans call for metal liner panel at the underside of the roof. Please confirm that metal liner panels are required.

**Response:** Metal liner panels are required.

18. **Question:** Is painting of exposed columns and rafters inside the garage required? They come standard from the manufacturer with a grey primer.

**Response:** Painting of the primed PEMB structure is not required. Touch-up of primer is required.

19. **Question:** Spec section 133419 – 3.3-H-3 states that rod bracing is not allowed, but it is shown along D line on the structural drawings. Please confirm if diagonal bracing is acceptable in these locations.

**Response:** Diagonal rod bracing is allowed in the roof plane and D-line wall plane. Rod bracing is not allowed across or between internal PEMB frames in either direction.

20. **Question:** Is the GC responsible for paying the local building permit fee?

**Response:** The contractor will not be responsible for obtaining or paying for local approvals.

21. **Question:** Spec section 133419 – 3.3-H-3 states that rod bracing is not allowed, but it is shown along D line on the structural drawings. Please confirm if diagonal bracing is acceptable in these locations.

**Response:** Rod bracing is acceptable in roof, end walls (provided it does not conflict with louvers and door units, and in rear wall opposite wall with overhead doors. Rod bracing is not allowed between interior frames or in line of interior frames within the foundation floor space footprint.

22. **Question:** The Supplemental Specifications **110.3.6 Builders Risk** states that the Special Provisions will state whether the Contractor shall provide Builder's Risk Insurance. The Special Provisions make no reference to Builder's Risk. Please clarify whether the Contractor is to provide Builder's Risk.

**Response:** The Contractor is not required to provide Builder's Risk Insurance.

23. **Question:** Plan A-0 states that the building should be built to IBC 2018, S-000 shows that the building should be built to IBC 2015. Please clarify which code should be adhered to.

**Response:** S-000 indicating IBC 2015 is the correct code edition. A-0 will be revised accordingly.

24. **Question** Is Pollution Liability Insurance required, as it is referenced in Supplemental Spec Section 110.3.7.

**Response:** No.

25. **Question:** Please clarify what is the determining factor on the schedule duration and liquidated damages. Spec Section SP-8, section 107.1 states we have 240 days to complete the project. Addendum 1 states the MTA may allow a phased project, if it benefits the Owner. If the project cost can be reduced, will a phased project lasting longer than 240 days be allowed, as long as we are substantially complete by September 6, 2024.

**Response:** There will be no modifications to the stated 240-day project duration or substantial completion dates.

26. **Question:** Building Code shown as 2018 IBC on Architectural. Structural are showing IBC 2015 which appears to be correct for Maine. Please confirm code to use.

**Response:** IBC 2015 is the code for this project. Architectural drawings corrected in this addendum.

27. **Question:** What collateral load should be used on the building? I do not see it noted anywhere on the plans.

**Response:** Use 3 PSF for collateral.

28. **Question:** Standing Seam roof is called out as a vertical standing seam with min panel width of 18" and max of 24". I am not aware of any vertical SSR panels that fit this description. Typical vertical SSR panels are 16" wide. Typical trapezoidal SSR panels are 24" wide. is the 16" wide vertical SSR acceptable or can we use the trapezoidal SSR panel at 24" wide? Images of each are noted below for reference.



24" Trapezoidal SSR



16" Vertical SSR

**Response:** Roof Panels widths of 16" Vertical SSR are acceptable.

29. **Question:** They are calling out a 3-coat fluoropolymer finish on the roof panels and a 2-coat fluoropolymer finish on the wall panels. The 2 coat is pretty much the standard for most building manufacturers. Can the 2-coat be acceptable for the roof and walls? Finish warranties for the 2-coat are 35 years and the specs call for only a 20-year warranty.

**Response:** Two-coat fluoropolymer finish on roof panels is acceptable.

30. **Question:** The Notice to Contractors states that all work shall be governed by the DOT Standard Specifications Revision of March 2014, and Standard Details Revision of March 2014. The Prebid Meeting Outline part M states that we are to adhere to the Standard Details Revision of March 2020. When you reach the website for either of those documents, the website states “ALL projects advertised after April 29, 2020 will need to meet the specifications of the March 2020 Edition, NOT the 2014.” Please clarify which Standard Specifications and Standard Details shall govern the work.

**Response:** All work shall be governed by the Maine DOT Standard Specifications Revisions of March 2014, Maine DOT Standard Details for Highways and Bridges March 2020, and Maine DOT Erosion and Sediment Control, latest revision.

## SPECIFICATIONS

1. **DELETE** Contract Agreement in its entirety. **ADD** in its place “Contract Agreement\_ Addendum 2\_5-5-2023”.
2. **DELETE** Contract Bond in its entirety. **ADD** in its place “Contract Bond Addendum 2\_5-5-2023”.
3. **DELETE** Final Lien and Claim Waiver in its entirety. **ADD** in its place “Final Lien and Claim Waiver\_ Addendum 2\_5-5-2023”.
4. SECTION 083613 – SECTIONAL DOORS: **REVISE** Paragraph 2.3.F. to read “Track Configuration: Standard Lift.”
5. Section 133419 METAL BUILDING SYSTEMS, make the following changes.
  - a. Subsection 2.3.A, **DELETE** reference to “2012 IECC”, **ADD** in its place “IECC 2021”.
  - b. Subsection 2.3.G, **DELETE** reference to “2009 IECC”, **ADD** in its place “IECC 2021”.

## PLANS SHEETS & SKETCHES

1. Drawing C-001 – General Notes (Sheet 2 of 33), **DELETE** this drawing. **ADD** Drawing C-001 – General Notes, Revised May 05, 2023 – Addendum 2 in its place.
2. Drawing C-100 – Sewer and Well Separation Plan (Sheet 4 of 33), **DELETE** this drawing. **ADD** Drawing C-100 – Sewer and Well Separation Plan, Revised May 05, 2023 – Addendum 2 in its place.
3. Drawing C-101 – Site and Utility Plan (Sheet 5 of 33), **DELETE** this drawing. **ADD** Drawing C-101 – Site and Utility Plan, Revised May 05, 2023 – Addendum 2 in its place.
4. Drawing C-102 – Grading, Drainage, Erosion Control Plan (Sheet 6 of 33), **DELETE** this drawing. **ADD** Drawing C-102 – Grading, Drainage, Erosion Control Plan, Revised May 05, 2023 – Addendum 2 in its place.
5. Drawing C-401 – Details - 1 (Sheet 7 of 33), **DELETE** this drawing. **ADD** Drawing C-401 – Details - 1, Revised May 05, 2023 – Addendum 2 in its place.
6. Drawing C-402 – Details - 2 (Sheet 8 of 33), **DELETE** this drawing. **ADD** Drawing C-402 – Details - 2, Revised May 05, 2023 – Addendum 2 in its place.
7. Drawing C-403 – Details - 1 (Sheet 9 of 33), **DELETE** this drawing. **ADD** Drawing C-403 – Details - 3, Revised May 05, 2023 – Addendum 2 in its place.
8. Drawing A-0 – Architectural Cover Sheet (Sheet 11 of 33), **DELETE** this drawing. **ADD** Drawing A-0 - Architectural Cover Sheet, Revised May 05, 2023 – Addendum 2 in its place.

9. Drawing A-1 - Code Compliance & First Floor Plans (Sheet 12 of 33), **DELETE** this drawing. **ADD** DrawingA-1 - Code Compliance & First Floor Plans, Revised May 05, 2023 – Addendum 2 in its place.
10. Drawing A-3 – Elevations (Sheet 14 of 33), **DELETE** this drawing. **ADD** Drawing A-3 - Elevations, Revised May 05, 2023 – Addendum 2 in its place.
11. Drawing A-4 – Building Sections (Sheet 15 of 33), **DELETE** this drawing. **ADD** Drawing A-4 - Building Sections, Revised May 05, 2023 – Addendum 2 in its place.
12. Drawing A-5 – Wall Sections (Sheet 16 of 33), **DELETE** this drawing. **ADD** Drawing A-5 - Wall Sections, Revised May 05, 2023 – Addendum 2 in its place.
13. Drawing PP-100 (Sheet 26 of 33), **DELETE** this drawing. **ADD** Drawing PP-100 Revised May 05, 2023 – Addendum 2 in its place.
14. Drawing MH-100 (Sheet 27 of 33), **DELETE** this drawing. **ADD** Drawing MH-100 Revised May 05, 2023 – Addendum 2 in its place.

## ATTACHMENTS

A. Addendum Summary Document	( 6 Page)
B. Specifications	( 6 Pages)
C. Plan Sheets and Sketches	( 14 Pages)
<b>Total Page Count</b>	<b><u>26 Pages</u></b>

MAINE TURNPIKE AUTHORITY

**YORK VEHICLE STORAGE GARAGE**

**CONTRACT AGREEMENT**

**CONTRACT 2023.06**

This Agreement made and entered into between the Maine Turnpike Authority, and sometimes termed the “Authority”, and \_\_\_\_\_

\_\_\_\_\_ herein termed the “Contractor”:

WITNESSETH: That the Authority and the Contractor, in consideration of the premises and of the mutual covenants, considerations and agreements herein contained, agree as follows:

FIRST: The parties hereto mutually agree that the documents attached hereto and herein incorporated and made a part hereof collectively evidencing and constituting the entire Contract to the same extent as if herein written in full, are the Notice to Contractors, the Accepted Proposal, the Specifications, the Plans, this Agreement, the Contract Bond and all Addenda to the Contract Documents duly issued and herewith enumerated:

SECOND: The Contractor for and in consideration of certain payments to be made as hereafter specified, hereby covenants and agrees to perform and execute all of the provisions of this Contract and of all documents and parts attached hereto and made a part thereof, and at his own cost and expense to furnish and perform everything necessary and required to construct and complete, ready for its intended purpose, in accordance with the Contract and such instructions as the Engineer may give, acceptable to the Authority, in the times provided, all of the Work covered and included under Contract No. \_\_\_\_\_ covering \_\_\_\_\_ as herein described.

THIRD: In consideration of the performance by the Contractor of his covenants and agreements as herein set forth, the Authority hereby covenants and agrees to pay the Contractor according to the Schedule of Prices set forth in the Proposal with additions and deductions as elsewhere herein provided in the times and in the manner stated in the Specifications. This Agreement shall insure to the benefit of, and shall be binding upon the parties hereto, and upon their respective successors and assigns; but neither party hereto shall assign or transfer his interest herein in whole or in part without the consent of the other, except as herein provided.

IN WITNESS WHEREOF the parties to this Agreement have executed the same in quintuplicate.

AUTHORITY -

MAINE TURNPIKE AUTHORITY

By: \_\_\_\_\_

Title: CHAIRMAN

Date of Signature: \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Secretary

CONTRACTOR -

\_\_\_\_\_  
CONTRACTOR

By: \_\_\_\_\_

Date of Signature: \_\_\_\_\_

WITNESS:

\_\_\_\_\_



MAINE TURNPIKE AUTHORITY

**YORK VEHICLE STORAGE GARAGE**

**CONTRACT BOND**

**CONTRACT 2023.06**

KNOW ALL MEN BY THESE PRESENTS that \_\_\_\_\_

of \_\_\_\_\_ in the County of \_\_\_\_\_ and State of \_\_\_\_\_

as Principal, and \_\_\_\_\_ a Corporation duly organized under the laws of the State of \_\_\_\_\_ and having a usual place of business in \_\_\_\_\_

As Surety, are held and firmly bound unto the Maine Turnpike Authority in the sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_), to be paid to said Maine Turnpike Authority, or its successors, for which payment, well and truly to be made, we bind ourselves, our heirs, executors, successors and assigns jointly and severally by these presents.

The condition of this obligation is such that the Principal, designated as Contractor in the foregoing Contract No. \_\_\_\_\_ shall faithfully perform the Contract on his part and satisfy all claims and demands incurred for the same and shall pay all bills for labor, material, equipment and all other items contracted for, or used by him, in connection with the Work contemplated by said Contract, and shall fully reimburse the Obligee for all outlay and expense which the Obligee may incur in making good any default of said Principal, then this Obligation shall be null and void; otherwise it shall remain in full force and effect.

Signed and sealed this \_\_\_\_\_ day of \_\_\_\_\_, A.D., 202\_\_

Witnesses:

CONTRACTOR

\_\_\_\_\_

\_\_\_\_\_ (SEAL)

\_\_\_\_\_

\_\_\_\_\_ (SEAL)

\_\_\_\_\_

\_\_\_\_\_ (SEAL)

SURETY

\_\_\_\_\_

\_\_\_\_\_ (SEAL)

\_\_\_\_\_

\_\_\_\_\_ (SEAL)

\_\_\_\_\_

\_\_\_\_\_ (SEAL)

(Surety must attach copy of Power of Attorney showing authority of Office or Agent to execute bonds)

MAINE TURNPIKE AUTHORITY

**YORK VEHICLE STORAGE GARAGE**

**FINAL LIEN AND CLAIM WAIVER**

**CONTRACT 2023.06**

Upon receipt of the sum of \_\_\_\_\_, which sum represents the total amount paid, including the current payment for work done and materials supplied for Project No. \_\_\_\_\_, in \_\_\_\_\_, Maine, under the undersigned’s Contract with the Maine Turnpike Authority.

The undersigned, on oath, states that the Final Payment of \_\_\_\_\_ is the final payment for all work, labor, materials, services and miscellaneous (all of which are hereinafter referred to as “Work Items”) supplied to the said Project through \_\_\_\_\_ and that no additional sum is claimed by the undersigned respecting said Project.

The undersigned, on oath, states that all persons and firms who supplied Work Items to the undersigned in connection with said Project have been fully paid by the undersigned for such Work Items or that such payment will be fully affected immediately upon receipt of this payment.

In consideration of the payment herewith made, the undersigned does fully and finally release and hold harmless the Maine Turnpike Authority, and its Surety, if any, from any and all claims, liens or right to claim or lien, arising out of this Project under any applicable bond, law or statute.

It is understood that this Affidavit is submitted to assure the Owner and others that all liens and claims relating to the Work Items furnished by the undersigned are paid.

\_\_\_\_\_  
(Contractor)

By: \_\_\_\_\_

Title: \_\_\_\_\_

State of MAINE

County of \_\_\_\_\_

I, \_\_\_\_\_, hereby certify on behalf of \_\_\_\_\_  
*(Company Officer)* *(Company Name)*

its \_\_\_\_\_, being first duly sworn and stated that the foregoing representations are  
*(Title)*

are true and correct upon his own knowledge and that the foregoing is his free act and deed in said capacity  
and the free act and deed of the above-  
named \_\_\_\_\_  
*(Company Name)*

The above-named, \_\_\_\_\_, personally appeared before me this \_\_\_\_ day of  
\_\_\_\_\_ and swears that this is his free act and deed.

*(SEAL)*

Notary Public \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

**GENERAL** 2

1. ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STANDARD DETAILS HIGHWAYS AND BRIDGES 2020 WITH UPDATES AND MAINEDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL LATEST REVISION UNLESS OTHERWISE INCLUDED IN THESE PLANS OR PROJECT SPECIFICATIONS.
2. ALL EXISTING ROADWAYS USED IN ACCESSING THE SITE SHALL REMAIN CLEAN.
3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREA(S) AND FIELD TRAILER LOCATION TO THE RESIDENT FOR APPROVAL, AS WELL AS A SEQUENCE OF WORK SCHEDULE, AT LEAST 10 DAYS PRIOR TO STARTING WORK. CONTRACTOR IS REQUIRED TO MAINTAIN SAFE ACCESS TO PARKING AREAS FOR MTA EMPLOYEES AT ALL TIMES DURING CONSTRUCTION.
4. DUST CONTROL IS INCIDENTAL TO CONTRACT.
5. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.
6. GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THIS PLAN SET IS FOR THE USE OF THE BIDDERS AND THE CONTRACTOR. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF ACTUAL SUBSURFACE CONDITIONS OF THE CONSTRUCTION SITE. THE MTA WILL NOT BE RESPONSIBLE FOR THE BIDDERS' OR CONTRACTOR'S INTERPRETATIONS OF, OR CONCLUSIONS DRAWN FROM, THE GEOTECHNICAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE MTA WITH AS-CONSTRUCTED PLANS IN PDF AND CADD FORMATS. THE PLANS SHALL NOTE ALL CHANGES TO, BUT NOT LIMITED TO: PAVEMENT, UTILITIES, DRAINAGE, FOUNDATIONS, WIRING, ETC.
8. SURVEY AND TOPOGRAPHY PROVIDED BY TITCOMB ASSOCIATES OF FALMOUTH, MAINE, DATED APRIL 23, 2020.
9. ALL DIVISION 2 SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES, (2014 EDITION) AND AS MODIFIED BY MAINE TURNPIKE 2016 SUPPLEMENTAL SPECIFICATIONS. SPECIAL PROVISIONS HAVE BEEN PREPARED FOR WORK ITEMS NOT ADDRESSED IN THE STANDARD SPECIFICATIONS, AND ARE ENCLOSED AS PART OF THIS CONTRACT. IN THE EVENT OF A CONFLICT BETWEEN THE STANDARD SPECIFICATIONS AND THE SUPPLEMENTAL SPECIFICATIONS, THE MORE STRINGENT STANDARD SHALL APPLY.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL SPOIL/EXCESS MATERIAL FROM THE SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS.
11. ALL AREAS OUTSIDE THE LIMIT OF WORK DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO PRIOR CONDITIONS AT NO EXPENSE TO THE OWNER.
12. BORING AND SOIL PROBE LOCATIONS TAKEN FROM GEOTECHNICAL REPORT PREPARED BY S.W. COLE DATED MAY 27, 2020.
13. AREAS OF CLEARING SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE RESIDENT.
14. DURING CONSTRUCTION, THE PROPANE TANKS SHALL BE PROTECTED BY A PHYSICAL BARRIER AT ALL TIMES, ON ALL SIDES.
15. A MINIMUM OF 3' CLEAR SPACE SHALL BE PERMITTED BETWEEN BOLLARDS IN FRONT OF THE PROPANE TANK. BOLLARDS SHALL BE PLACED ON ALL SIDES THAT COULD BE IMPACTED BY VEHICLES.
16. FOLLOWING THE COMPLETION OF WORK THE CONTRACTOR SHALL PROVIDE THE AUTHORITY THREE HARD COPIES OF ALL O&M MANUALS ASSOCIATED WITH THE PROJECT AND ONE LINKED, TABBED, AND SEARCHABLE PDF DOCUMENT CONTAINING ALL O&M MANUALS IN A SINGLE FILE.
17. FOLLOWING THE COMPLETION OF WORK THE CONTRACTOR SHALL PROVIDE ONE HARD COPY AND ONE LINKED, TABBED, AND SEARCHABLE PDF DOCUMENT OF ALL APPROVED SUBMITTALS ASSOCIATED WITH THE PROJECT ORGANIZED BY WORK CATEGORY.
18. A HIGHWAY CLASS PAVER WITH AN EIGHT TO TEN FOOT SCREED (CAT AP555E OR SIMILAR) WILL BE ALLOWED.

**EARTHWORK** 2

1. EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 1926.650-652 (CONSTRUCTION STANDARDS FOR EXCAVATION).
2. THE NORMAL GRUBBING WIDTH IN THE FILLS SHALL BE VARIABLE WHEN SUBGRADE IS LESS THAN 5' ABOVE OLD GROUND. THE GRUBBING DEPTH HAS BEEN ESTIMATED AS 6" IN FIELD AREAS AND 12" IN WOODED AREAS.
3. ALL ABOVE GROUND FEATURES AND BELOW GROUND OBSTRUCTIONS, (UTILITIES, FOUNDATIONS, ETC.) ENCOUNTERED DURING EXCAVATION SHALL BE REMOVED AND DISPOSED OF AS NECESSARY TO ENABLE WORK TO BE COMPLETED. UNDERGROUND UTILITIES LABELED "TO REMAIN" SHALL BE PROTECTED. SAVING OR REMOVAL OF UNDERGROUND OBSTRUCTIONS NOT SHOWN ON THE PLAN SHALL BE COORDINATED WITH THE PROJECT OWNER OR THEIR REPRESENTATIVE.
4. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.
5. REMOVAL OF EXISTING PAVEMENT, WITHIN THE AREAS OF FULL DEPTH PAVEMENT AND FULL DEPTH RECONSTRUCTION, SHALL BE PAID FOR AS COMMON EXCAVATION. EXISTING PAVEMENT THICKNESS HAS BEEN ESTIMATED TO BE 7 INCHES.
6. GRANULAR BORROW SHALL BE USED IN THE AREAS SPECIFIED ON THE PLANS. AND TO BACKFILL AREAS OF MUCK EXCAVATION AND IN LOW WET AREAS TO 1' ABOVE THE WATER LEVEL OR OLD GROUND. GRANULAR BORROW USED TO FILL MUCK OR WET AREAS SHALL MEET THE REQUIREMENTS OF GRANULAR BORROW-UNDERWATER BACKFILL. MATERIALS EXCAVATED FROM ON SITE MEETING THE

- REQUIREMENTS OF GRANULAR BORROW OR GRANULAR BORROW-UNDERWATER BACKFILL SHALL BE REUSED ON SITE. EACH REQUIRED HANDLING OF THE MATERIAL SHALL BE MEASURED FOR PAYMENT AS COMMON EXCAVATION.
7. TOPSOIL STRIPPED IN AREAS OF CONSTRUCTION THAT IS SUITABLE FOR THE REUSE AS LOAM SHALL BE STOCKPILED ON SITE AT A LOCATION TO BE DESIGNATED BY THE OWNER. UNSUITABLE SOIL SHALL BE SEPARATED, REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL LOCATION OFF SITE.
  8. THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING.
  9. ALL SITE DISTURBANCE WILL REMAIN WITHIN THE GRADING LIMITS SHOWN ON PLANS. NO IMPACT TO WETLANDS ARE AUTHORIZED.
  10. FOLLOWING APPROVAL OF THE EXCAVATION LIMITS, AND PRIOR TO THE PLACEMENT OF BACKFILL, THE EXISTING SUBGRADE SHALL BE PROOF COMPACTED AS FOLLOWS:
    - 10.A. AREAS OF EXCAVATION EXTENDING TO THE ELEVATION 345 OR BELOW: PROOF COMPACT SUBGRADE WITH 3 TO 5 PASSES OF A VIBRATORY COMPACTOR HAVING A STATIC WEIGHT OF AT LEAST 500 POUNDS.
    - 10.B. AREAS OF EXCAVATION THAT DO NOT EXTEND TO ELEVATION 345: PROOF COMPACT SUBGRADE TO AT LEAST 95 PERCENT OF ITS MAXIMUM DRY DENSITY.

UTILITY

1. EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED. NO WORK SHALL BE STARTED UNTIL THE OWNERS OF THE VARIOUS UTILITIES ARE NOTIFIED BY THE CONTRACTOR OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR IS ALSO REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 PRIOR TO THE START OF THE WORK.
2. THE UTILITIES INVOLVED IN THIS CONTRACT ARE:
  - MAINE TURNPIKE AUTHORITY
  - CENTRAL MAINE POWER
  - FAIRPOINT/CONSOLIDATED COMMUNICATIONS
  - SPECTRUM/CHARTER COMMUNICATIONS
3. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 DAYS PRIOR TO CONSTRUCTION SO THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. EXCAVATION WILL NOT BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS' UNDERGROUND UTILITIES, OR NOTIFIED THE RESIDENT THERE ARE NO UNDERGROUND UTILITIES IN THE MARKED AREAS. THE AUTHORITY HAS PROGRAMMED TWO FIELD VISITS FOR MAINE TURNPIKE UTILITY COORDINATION ON THIS PROJECT. SHOULD THE CONTRACTOR NEED ADDITIONAL EXCAVATION LOCATIONS MARKED, OR SHOULD THE CONTRACTOR FAIL TO MAINTAIN THE AUTHORITY'S PREVIOUSLY ESTABLISHED DIG SAFE MARKS, THE AUTHORITY SHALL DEDUCT THE ADDED MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS.
4. THE CONTRACTOR SHALL NOTIFY ALL NONMEMBERS THROUGH WWW.OKtoDIG.COM OR AS OTHERWISE REQUIRED BY THE MAINE PUBLIC UTILITIES COMMISSION. NO EXCAVATION SHALL BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS UNDERGROUND UTILITIES. THE RESIDENT ENGINEER SHALL BE PROVIDED AN ELECTRONIC COPY OF ALL DIG SAGE TICKETS WITHIN 24 HOURS OF THEIR RELEASE FOR PROJECT NOTIFICATIONS AND 3RD PARTY UTILITY LOCATOR COORDINATION.
5. FOLLOWING THE COMPLETION OF THE INITIAL UTILITY LOCATE, THE CONTRACTOR WILL GPS ALL UTILITIES WITHIN THE PROJECT LIMITS AND PROVIDE A COPY OF THE DIG SAFE RECORDS TO THE AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMARKING ALL MTA UNDERGROUND UTILITIES WHEN A DIG SAFE UTILITY LOCATE IS CALLED IN FOR THE PROJECT.
6. CONTRACTOR SHALL PROTECT ALL NEW AND EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION AS APPROVED BY THE UTILITY OWNERS. SEE SPECIFICATIONS FOR REQUIRED UTILITY COORDINATION.
7. EXCEPT AS ALLOWED IN THE PROJECT SPECIFICATIONS OR APPROVED BY THE RESIDENT, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE AT ALL TIMES.
8. IF THE CONTRACTOR DAMAGES UTILITY SERVICES, HE SHALL IMMEDIATELY NOTIFY THE RESPECTIVE UTILITY COMPANY AND SHALL IMMEDIATELY REPLACE THEM AT HIS OWN EXPENSE.
9. DURING CONSTRUCTION, THE PROPANE TANKS SHALL BE PROTECTED AT ALL TIMES.
10. THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND CONSTRUCTION DRAWINGS FOR THE CONCRETE PROPANE TANK PAD, IN ACCORDANCE WITH SPECIAL PROVISION 502.

EROSION CONTROL

1. THE ANTICIPATED EROSION CONTROL DEVICES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROPOSED ACTUAL TYPE AND LOCATION OF DEVICES FOR APPROVAL BY THE RESIDENT. ADDITIONAL MEASURES MAY BE PROPOSED BY THE CONTRACTOR DUE TO SITE OR WEATHER CONDITIONS. THE RESIDENT MAY DIRECT THE CONTRACTOR TO IMPLEMENT ADDITIONAL MEASURES. ANY ADDITIONAL MEASURES APPROVED BY THE RESIDENT WILL BE MEASURED FOR PAYMENT.
2. 4" LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED SLOPE AREA UNLESS OTHERWISE SPECIFIED ON THE PLANS. ACTUAL PLACEMENT OF THE LOAM

SHALL BE AS DESIGNATED BY THE RESIDENT.

3. UNLESS OTHERWISE NOTED, SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS. SEEDING METHOD NO. 2 SHALL BE USED ON ALL OTHER AREAS.
4. NEWLY DISTURBED EARTH SHALL BE MULCHED PRIOR TO A RAIN EVENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED AS INCIDENTAL TO THE PROJECT.
5. ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.
6. TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE COMPLETED WITHIN 30 DAYS.
7. TEMPORARY EROSION CONTROL BLANKET SHALL BE INSTALLED IN ALL DITCHES AND 2:1 SLOPES FROM TOP TO TOE OF SLOPE. LOAM AND SEED SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE EROSION CONTROL BLANKET. LIMITS OF THE EROSION CONTROL BLANKET IN DITCHES SHALL BE 8' WIDE OR AS DESIGNATED BY THE RESIDENT.
8. TEMPORARY STABILIZATION WITH MULCH OR OTHER NON-ERODIBLE COVER IS REQUIRED ON ALL EXPOSED SOILS THAT WILL NOT BE WORKED ON FOR MORE THAN 7 DAYS. AREAS WITHIN 75 SHEET OF A WETLAND OR WATERBODY SHALL BE STABILIZED WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST.
9. LAND DISTURBING ACTIVITIES SHALL BE ACCOMPLISHED IN A MANNER AND SEQUENCE THAT CAUSES THE LAST PRACTICAL DISTURBANCE OF THE SITE.
10. PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL THE PERIMETER SILT FENCES AND SEDIMENTATION BARRIERS.
11. WATER FROM DEWATERING SHALL BE PUMPED THROUGH A DIRT BAG (SEE DETAIL). DIRT BAG OUTLET LOCATION SHALL NOT BE WITHIN 50' OF AN EXISTING WETLAND. NO SEPARATE PAYMENT WILL BE MADE TO CONTRACTOR FOR PROVIDING THE DIRT BAG, IT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

PAVING

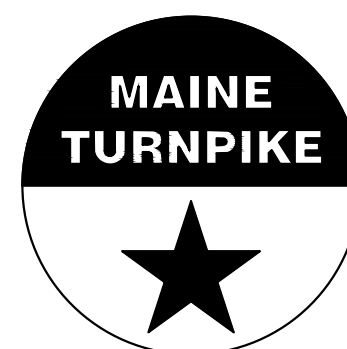
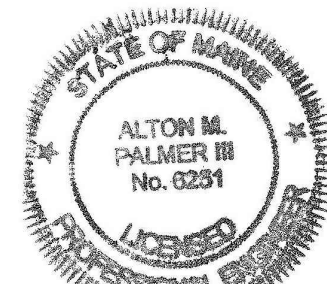
1. REFER TO THE SPECIAL PROVISIONS FOR INFORMATION REGARDING PAVEMENT AND TACK COAT SPECIFICATIONS.

DRAINAGE

1. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
2. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
3. ONE GREEN DELINEATOR POST SHALL BE INSTALLED AT ALL UNDERDRAIN AND STORM DRAIN OUTLETS.

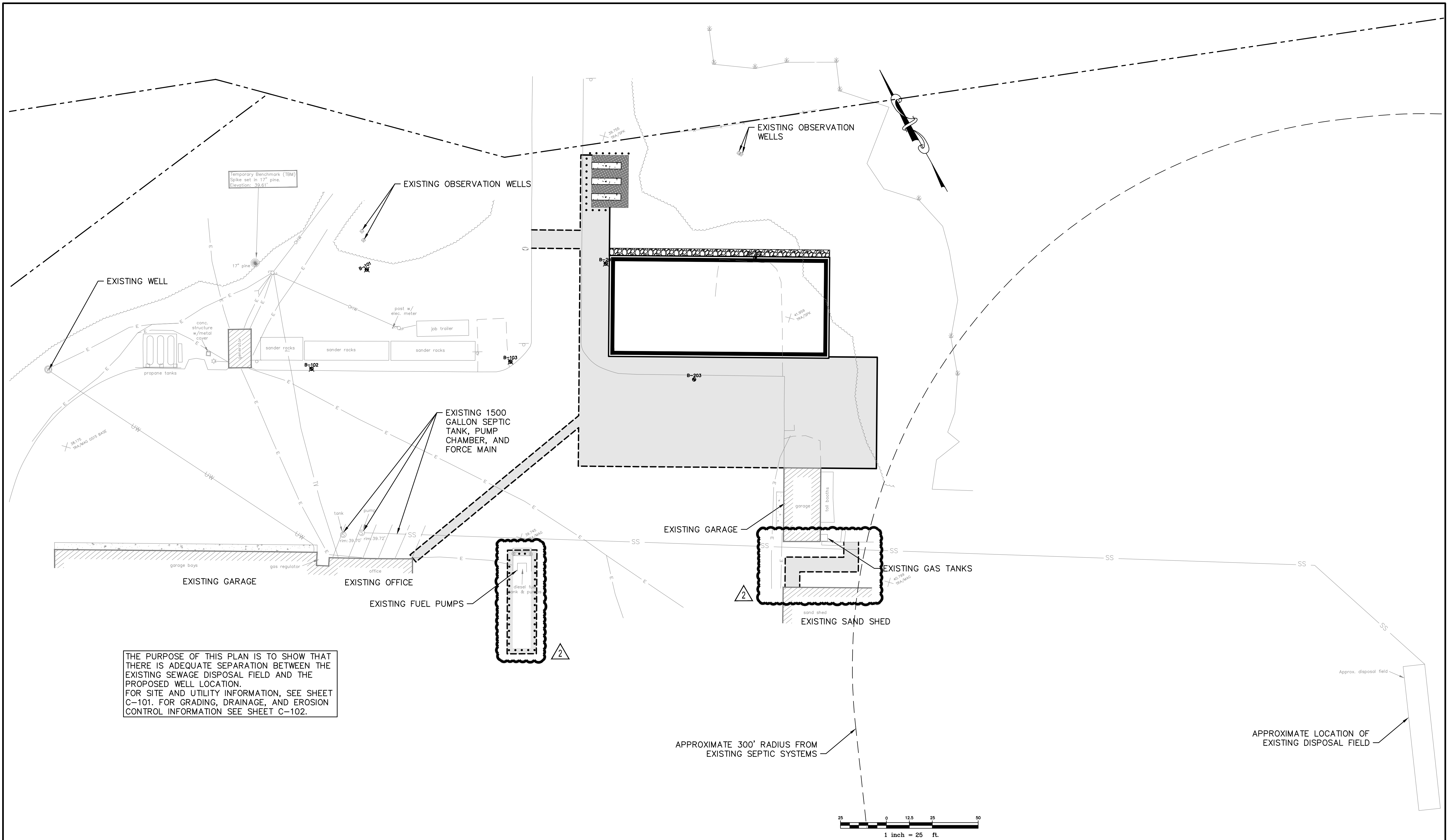
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No.	Revision	By	Date
2	ADDENDUM 2		5/5/23

Designed by: ALTON M. PALMER, P.E.			
ISSUED FOR BID - NOT FOR CONSTRUCTION			
Designed:	By	Date	Checked:
AMP	CEH	03/28/23	AMP
Drawn:	By	Date	Checked:
CEH	AMP	03/28/23	AMP

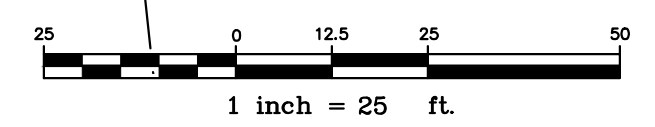


**THE GOLD STAR  
MEMORIAL HIGHWAY**

**CONTRACT 2023.06  
YORK VEHICLE STORAGE GARAGE  
GENERAL NOTES**



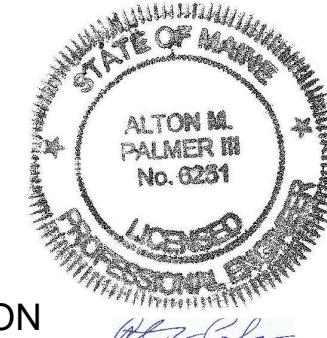
THE PURPOSE OF THIS PLAN IS TO SHOW THAT THERE IS ADEQUATE SEPARATION BETWEEN THE EXISTING SEWAGE DISPOSAL FIELD AND THE PROPOSED WELL LOCATION. FOR SITE AND UTILITY INFORMATION, SEE SHEET C-101. FOR GRADING, DRAINAGE, AND EROSION CONTROL INFORMATION SEE SHEET C-102.



Scale:  
1"=25'


No.	Revision	By	Date
2	ADDENDUM 2		5/5/23

Designed by:  
ALTON M. PALMER, P.E.



ISSUED FOR BID - NOT FOR CONSTRUCTION

Designed:	By	Date	Checked:	By	Date
AMP	CEH	03/28/23	AMP	CEH	03/28/23



**GORRILL PALMER**



**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: **Brian A. Taddeo, P.E.**

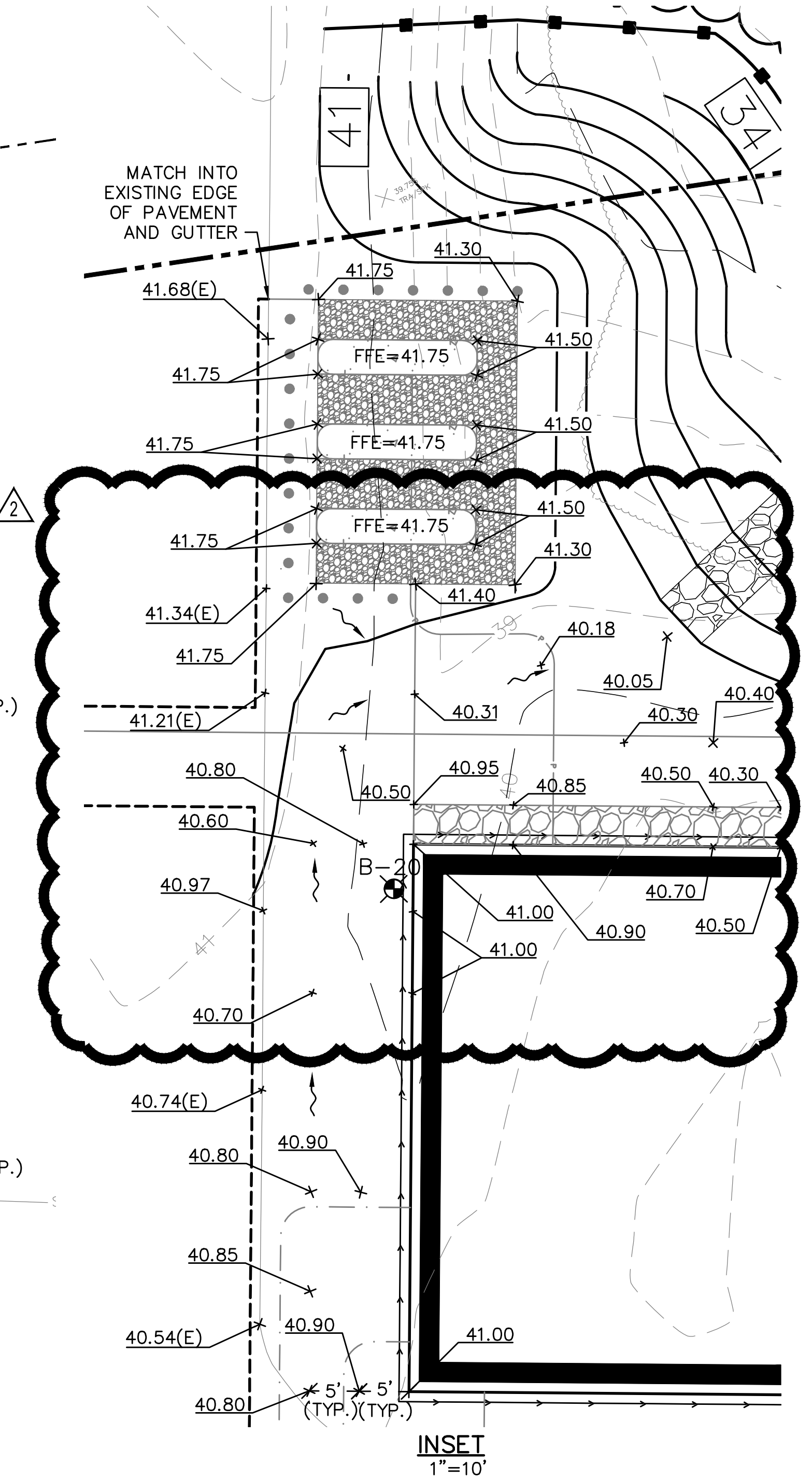
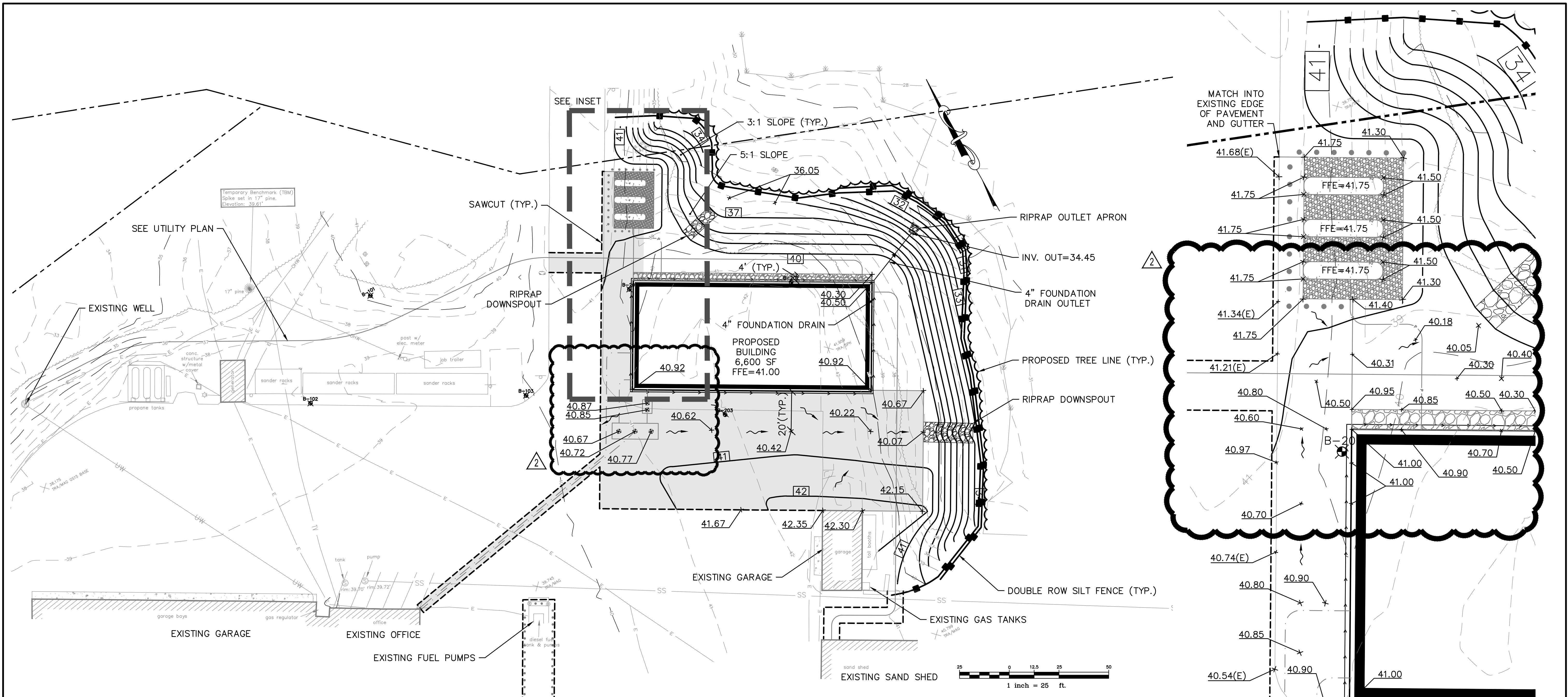
**CONTRACT 2023.06**  
**YORK VEHICLE STORAGE GARAGE**  
**SEWER AND WELL SEPARATION PLAN**

SHEET NUMBER: C-100

CONTRACT: 2023.06

4 OF 33





**GENERAL NOTES:**

1. TOTAL "LIMITS OF DISTURBANCE" IS 0.65 ACRES.
2. ADDING 0.27 ACRES OF IMPERVIOUS SURFACE.

**GRADING & DRAINAGE NOTES:**

1. TOPSOIL STRIPPED IN AREAS OF CONSTRUCTION THAT IS SUITABLE FOR REUSE AS LOAM SHALL BE STOCKPILED ON SITE AT A LOCATION TO BE DESIGNATED BY THE OWNER. UNSUITABLE SOIL SHALL BE SEPARATED, REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL LOCATION OFF SITE.
2. THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING.
3. ALL SITE DISTURBANCE WILL REMAIN WITHIN THE GRADING LIMITS SHOWN ON THE PLANS. NO IMPACTS TO WETLANDS ARE AUTHORIZED.

**EROSION CONTROL NOTES:**

1. LAND DISTURBING ACTIVITIES SHALL BE ACCOMPLISHED IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE SITE.
2. PRIOR TO BEGINNING ANY CLEARING/LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL THE PERIMETER SILT FENCES AND SEDIMENTATION BARRIERS.
3. ALL GROUND AREAS DISTURBED FOR CONSTRUCTION WILL BE GRADED, LOAMED AND SEEDING AS SOON AS POSSIBLE.
4. ALL NON-PAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED AND SEEDING, UNLESS OTHERWISE DIRECTED BY THE OWNER. ALL DISTURBED AREAS ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL PRIOR TO PERMANENT SEEDING.
5. WATER FROM DEWATERING SHALL BE PUMPED THROUGH A DIRT BAG (SEE DETAIL). DIRT BAG OUTLET LOCATION SHALL NOT BE WITHIN 50' OF AN EXISTING WETLAND.
6. EROSION CONTROL BLANKET SHALL BE USED ON ALL SLOPES 2:1 OR STEEPER.

Scale:  
1"=25'

No.	Revision	By	Date
2	ADDENDUM 2		5/5/23

Designed by:  
ALTON M. PALMER, P.E.

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Designed:	By	Date	Checked:	By	Date
AMP	CEH	03/28/23	AMP	CEH	03/28/23

**GORRILL PALMER**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: **Brian A. Taddeo, P.E.**

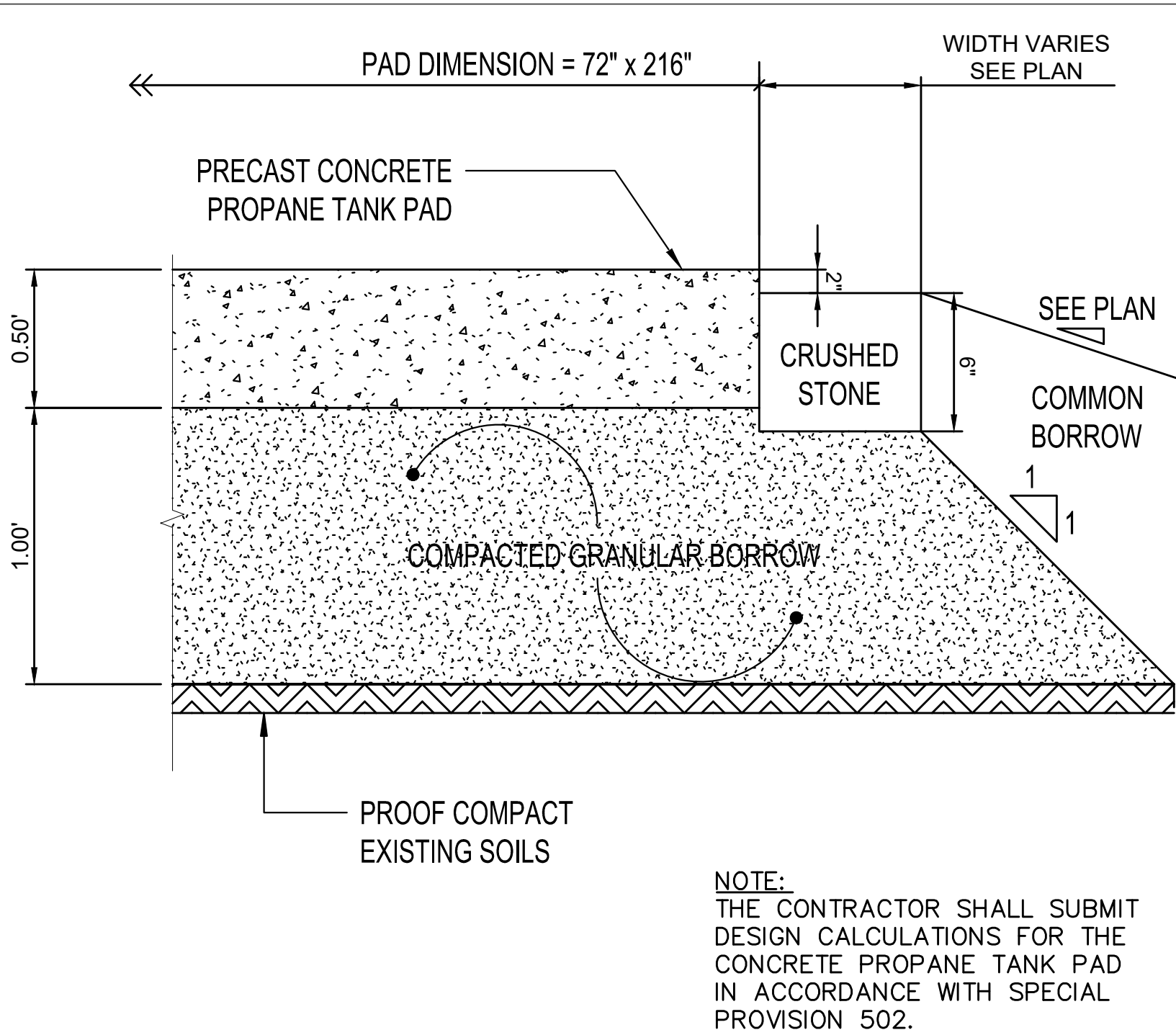
**CONTRACT 2023.06**  
**YORK VEHICLE STORAGE GARAGE**  
**GRADING, DRAINAGE,**  
**EROSION CONTROL PLAN**

SHEET NUMBER: C-102

CONTRACT: 2023.06

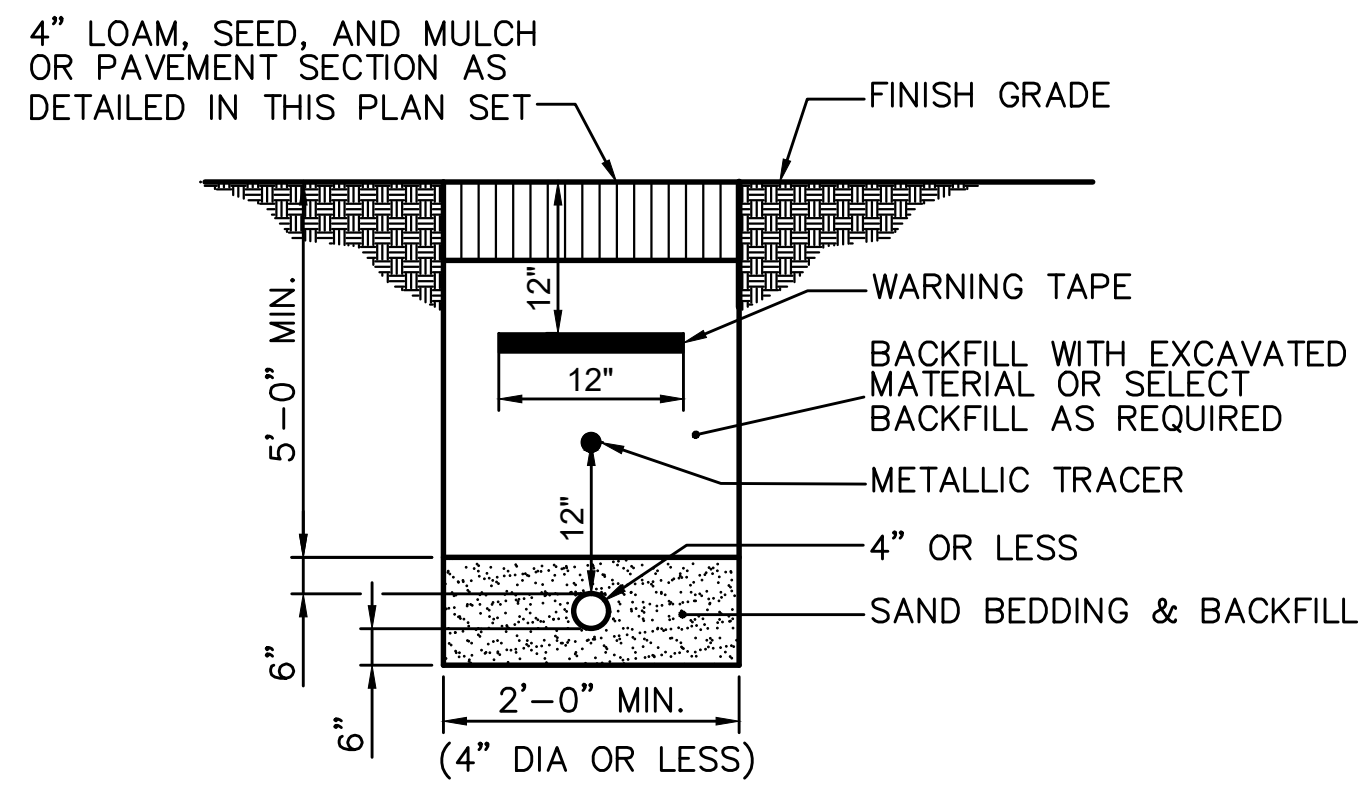
6 OF 33





**PRECAST PROPANE TANK PAD**  
NOT TO SCALE

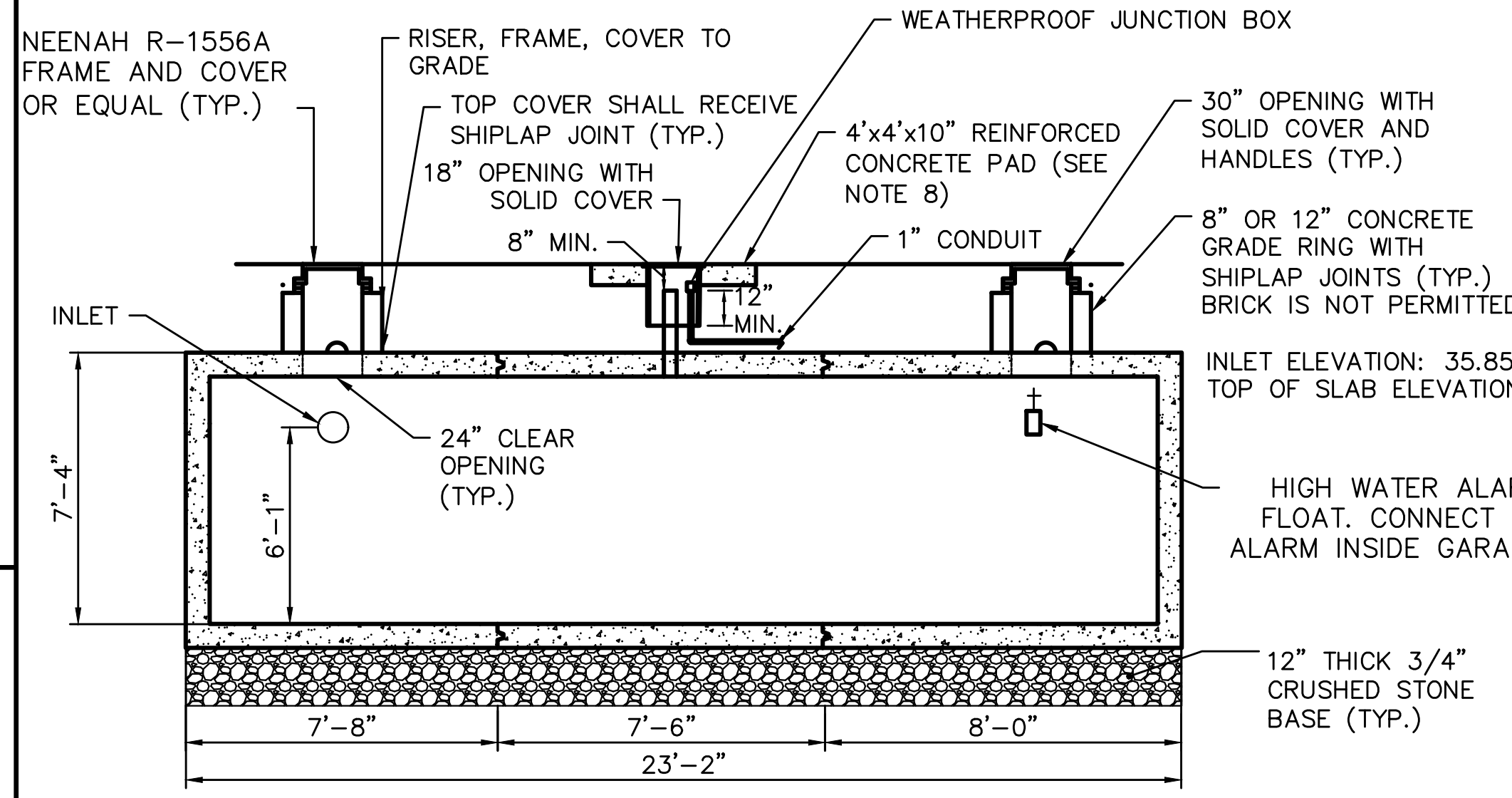
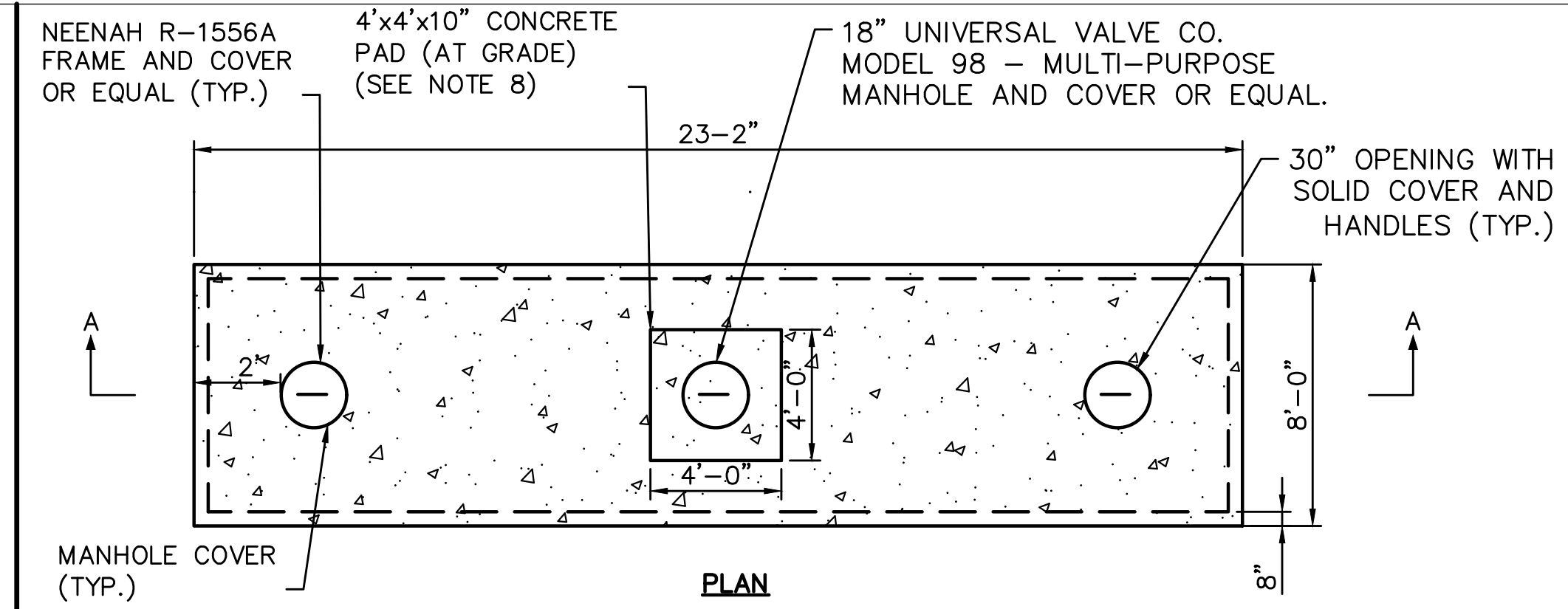
NOTE:  
THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS FOR THE CONCRETE PROPANE TANK PAD IN ACCORDANCE WITH SPECIAL PROVISION 502.



NOTES:  
1. CONTRACTOR TO INSTALL TRACER WIRE OVER PIPE.  
2. WATER LINE INSTALLATION SHALL COMPLY WITH MTA STANDARDS. SITE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION AND BACKFILL OF THE WATER LINE AND PLACEMENT OF THE WARNING TAPES AND TRACER.

**WATER SERVICE TRENCH SECTION**  
NOT TO SCALE

NOTES:  
1. THE WOOD WASTE COMPOST/BARK MIX SHALL CONFORM TO THE FOLLOWING STANDARDS:  
A. MOISTURE CONTENT - 30-60%.  
B. pH - 5.0 - 8.0.  
C. SCREEN SIZE - 100% LESS THAN 3", MAX. 70% LESS THAN 1".  
D. NO LESS THAN 40% ORGANIC MATERIAL (DRY WEIGHT) BY LOSS OF IGNITION.  
E. NO STONES LARGER THAN 2" IN DIAMETER.  
F. SILTS, CLAYS OR SUGAR SANDS ARE NOT ACCEPTABLE IN THE MIX.  
2. THE COMPOST BERM SHALL BE PLACED, UNCOMPACTED, ALONG A RELATIVELY LEVEL CONTOUR.  
3. THE WOOD WASTE COMPOST/BARK FILTER BERM MAY BE USED IN LIEU OF SILTATION FENCE, AT THE TOE OF SHALLOW SLOPES, ON FROZEN GROUND, LEDGE OUT CROPS, VERY ROOTED FORESTED AREA OR AT THE EDGE OF GRAVEL PARKING AREAS.  
4. BERMS SHALL REMAIN IN PLACE UNTIL UPSTREAM AREA IS COMPLETED OR 70% CATCH OF VEGETATION IS ATTAINED. BERMS SHALL BE REMOVED BY SPREADING SUCH THAT NATIVE EARTH CAN BE SEEN BELOW.

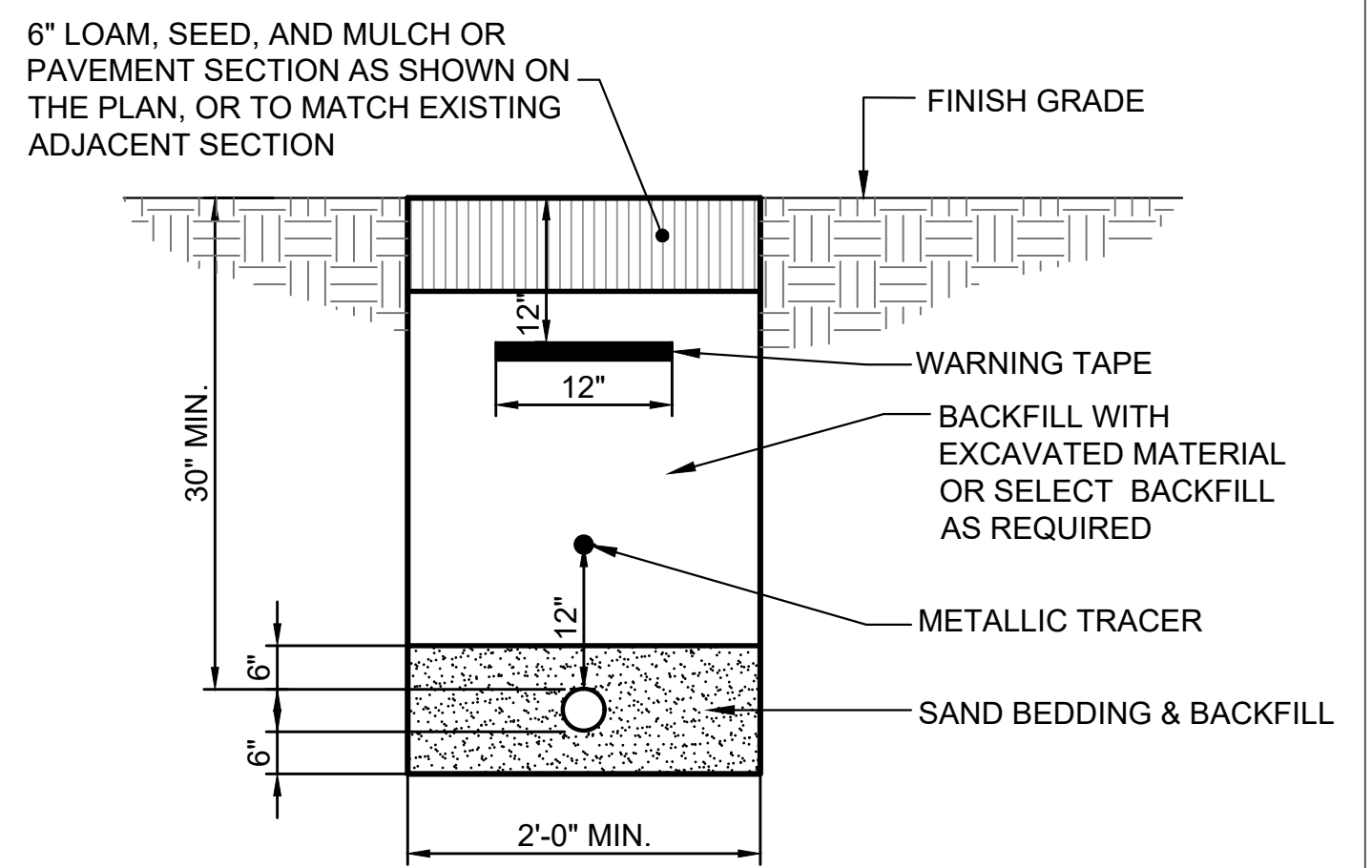


**6,000 GALLON HOLDING TANK**  
NOT TO SCALE

NOTES:  
1. COMPACT SUBGRADE TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557.  
2. IN AREAS OF NEW PAVEMENT THE CONTRACTOR SHALL PROVIDE FULL DEPTH GRAVEL CONSTRUCTION.  
3. WITHIN LIMITS OF EXISTING PAVEMENT, AND AS DIRECTED BY THE RESIDENT, THE CONTRACTOR SHALL NOT REMOVE AND REPLACE EXISTING SUBBASE GRAVEL THAT MEETS REQUIREMENTS OF TYPE D GRAVEL. FOLLOWING ACCEPTANCE OF THE SUBBASE MATERIAL THE CONTRACTOR SHALL SHIM THE SUBBASE LAYER AS REQUIRED TO ALLOW FOR THE SPECIFIED PAYMENT THICKNESS USING AGGREGATE BASE COURSE, TYPE A. THE CONTRACTOR WILL BE PAID BASED ON THE ACTUAL QUANTITY OF MATERIAL REMOVED AND REPLACED.

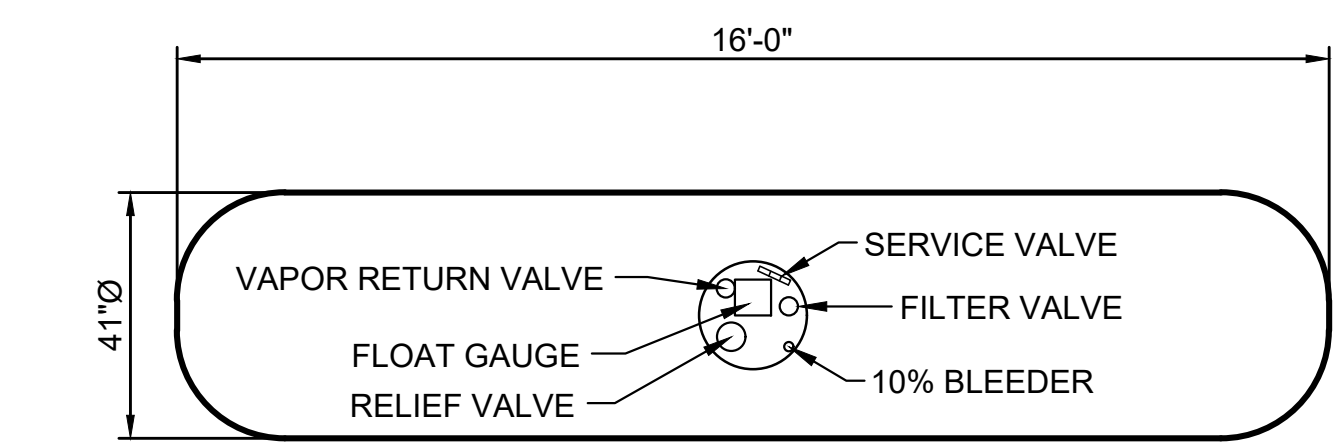
THICKNESS AND ORDER OF LAYERS	
1.5"	SURFACE COURSE BITUMINOUS 12.5mm HOT MIX ASPHALT
2.5"	BASE COURSE BITUMINOUS 19mm HOT MIX ASPHALT
6"	AGGREGATE BASE GRAVEL MAINEDOT 703.06 TYPE A
15"	AGGREGATE SUBBASE GRAVEL MAINEDOT 703.06 TYPE D

**HEAVY DUTY BITUMINOUS PAVEMENT SECTION**  
NOT TO SCALE



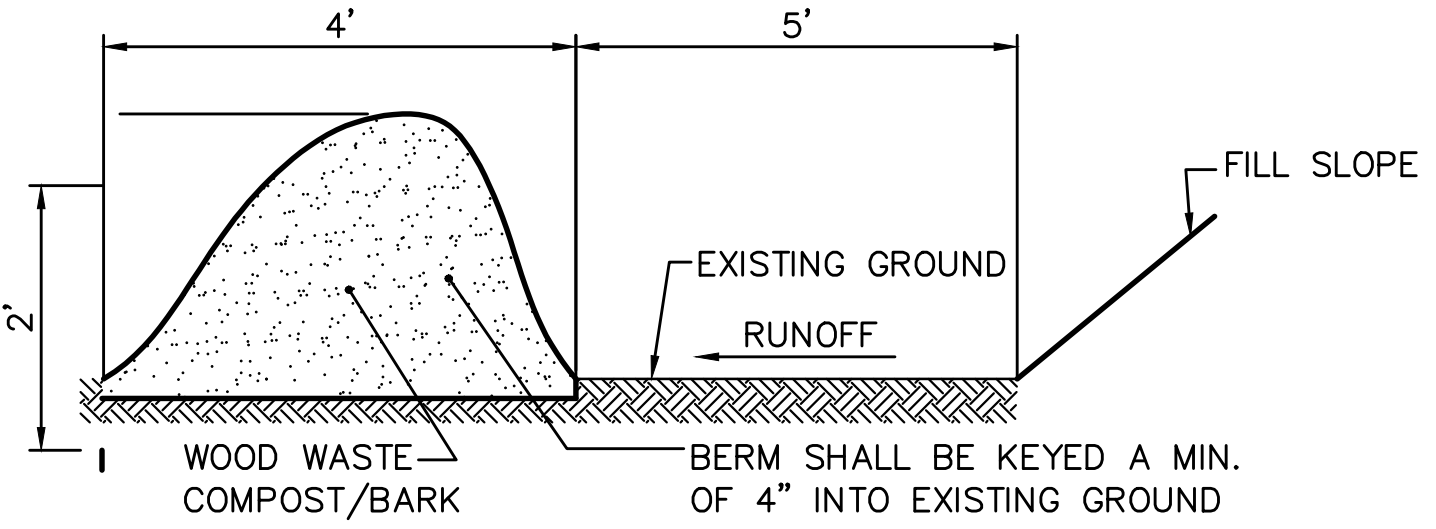
NOTE:  
SITE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION, INSTALLATION AND BACKFILL OF THE GAS LINE AND PLACEMENT OF THE WARNING TAPES AND TRACER. GAS LINE TO BE INSPECTED BY MTA GAS INSPECTOR PRIOR TO BACKFILL.

**GAS SERVICE TRENCH SECTION**  
NOT TO SCALE



**1,000 GALLON PROPANE GAS STORAGE TANK**  
NOT TO SCALE

NOTES:  
1.) USE AMERICAN WELDING & TANK ASME TANK OR APPROVED EQUAL. TANK INSTALLATION TO BE COORDINATED WITH THE LOCAL GAS UTILITY COMPANY, AND SHALL COMPLY WITH ITS STANDARDS.



**WOOD WASTE COMPOST/BARK FILTER BERM DETAIL**  
NOT TO SCALE

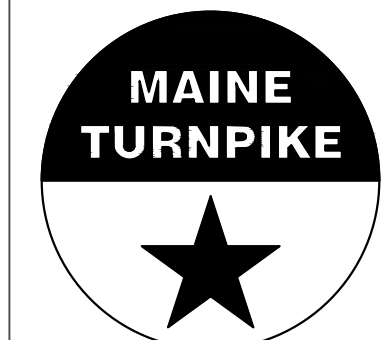
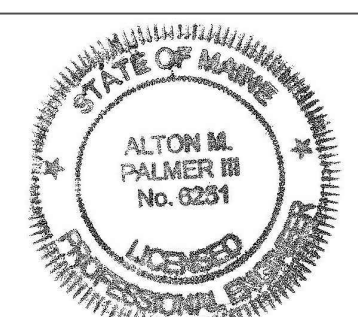
Scale: N/A

No.	Revision	By	Date
2	ADDENDUM 2		5/5/23

Designed by:  
ALTON M. PALMER, P.E.

ISSUED FOR BID - NOT FOR CONSTRUCTION

Designed:	By	Date	Checked:	By	Date
AMP	CEH	03/28/23	AMP		03/28/23



**THE GOLD STAR MEMORIAL HIGHWAY**

**CONTRACT 2023.06**  
**YORK VEHICLE STORAGE GARAGE**  
**DETAILS - 1**

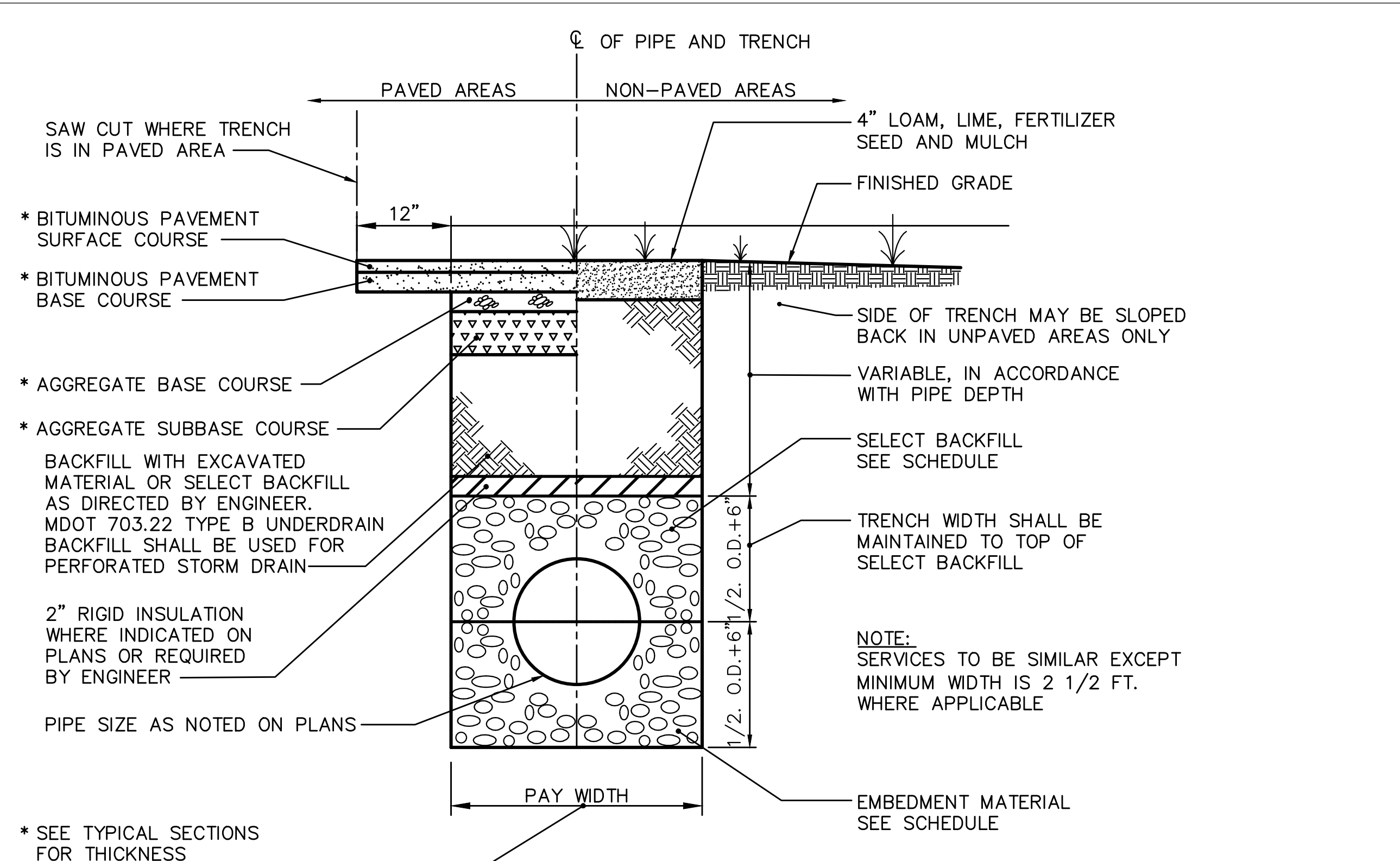
PROJ.NO.: 3660 CAD FILE: 3660-DETAILS.dwg

MTA PROJECT MANAGER: **Brian A. Taddeo, P.E.**

CONTRACT: 2023.06

SHEET NUMBER: C-401

7 OF 33

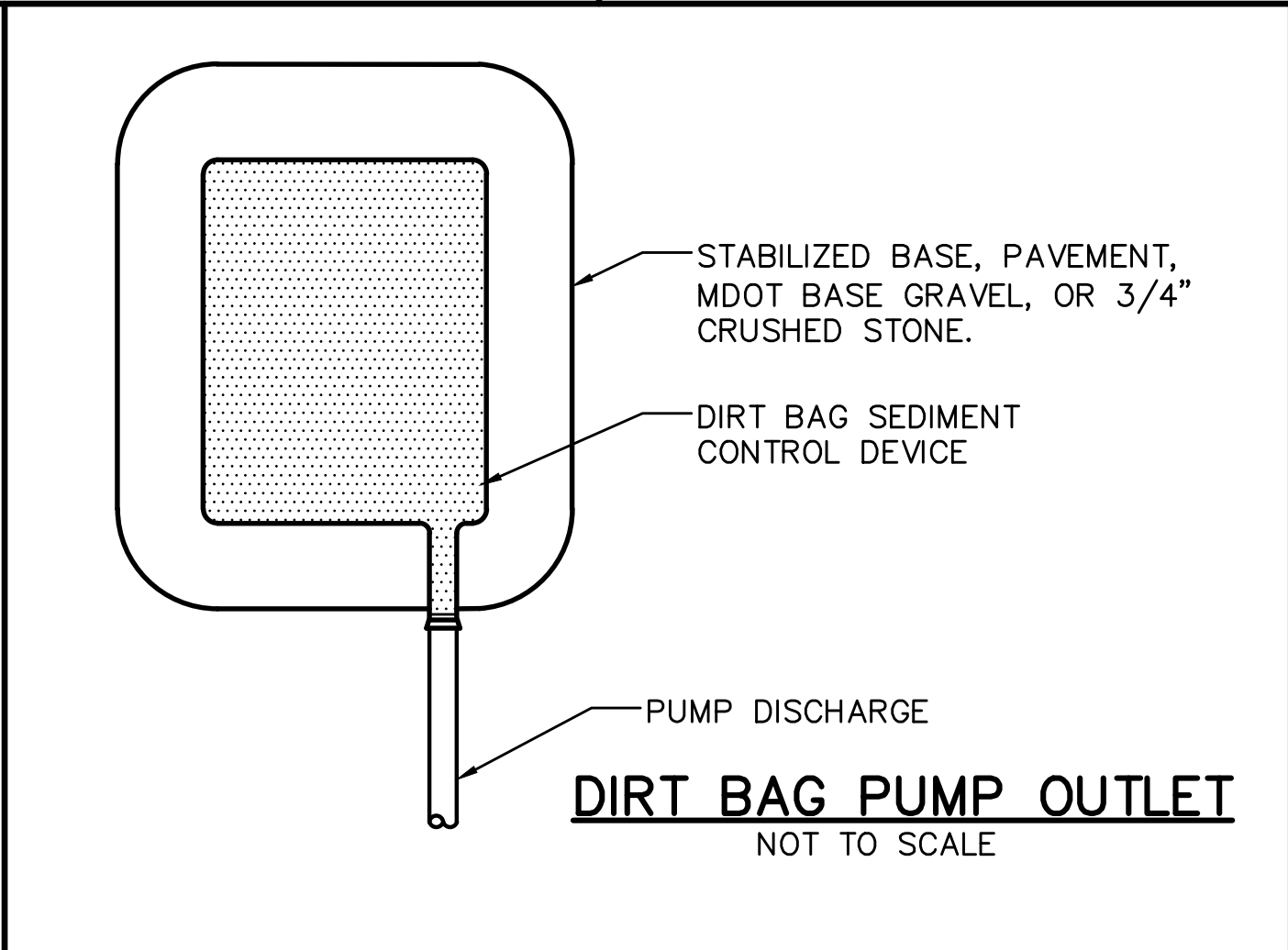
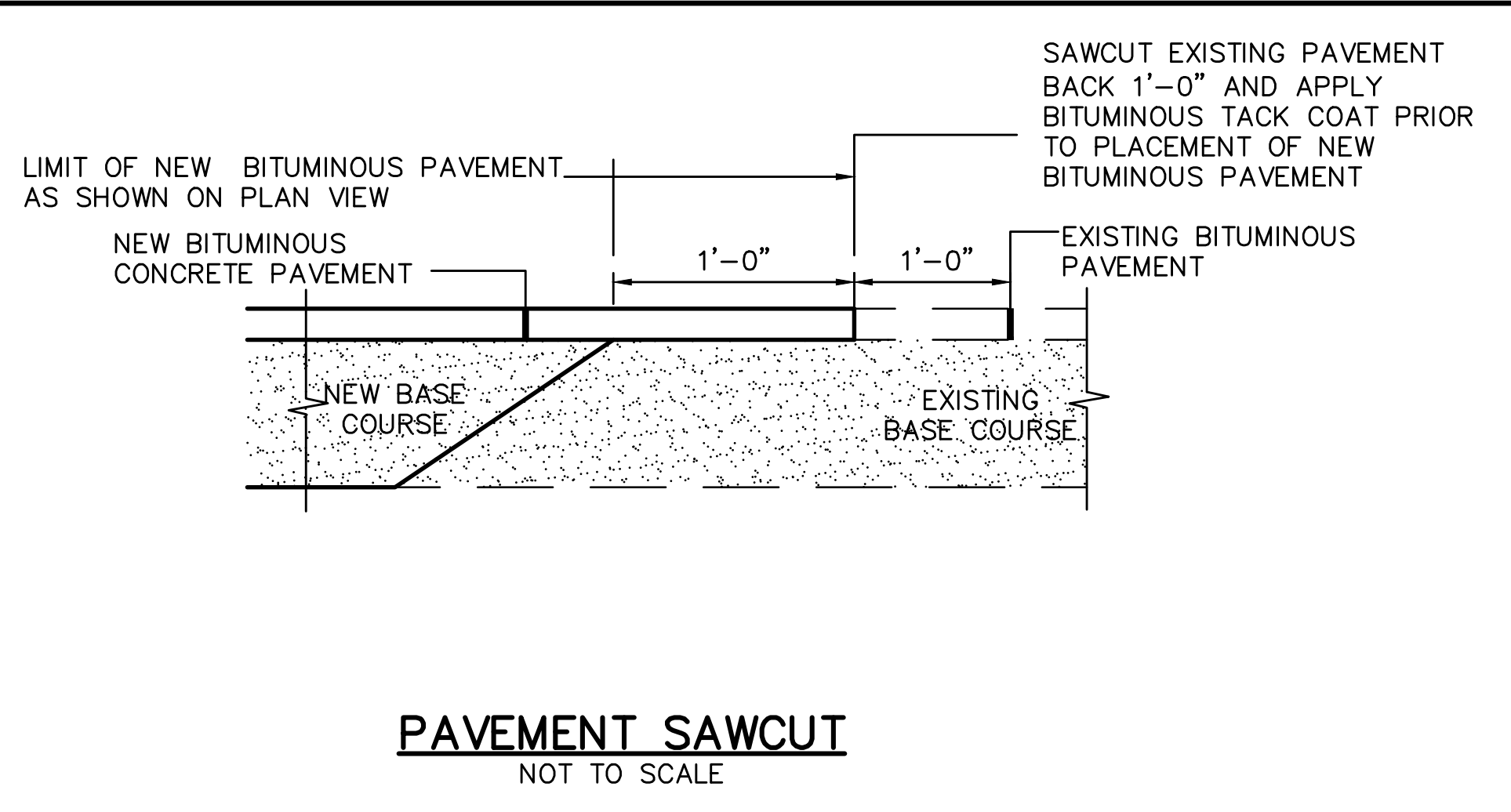
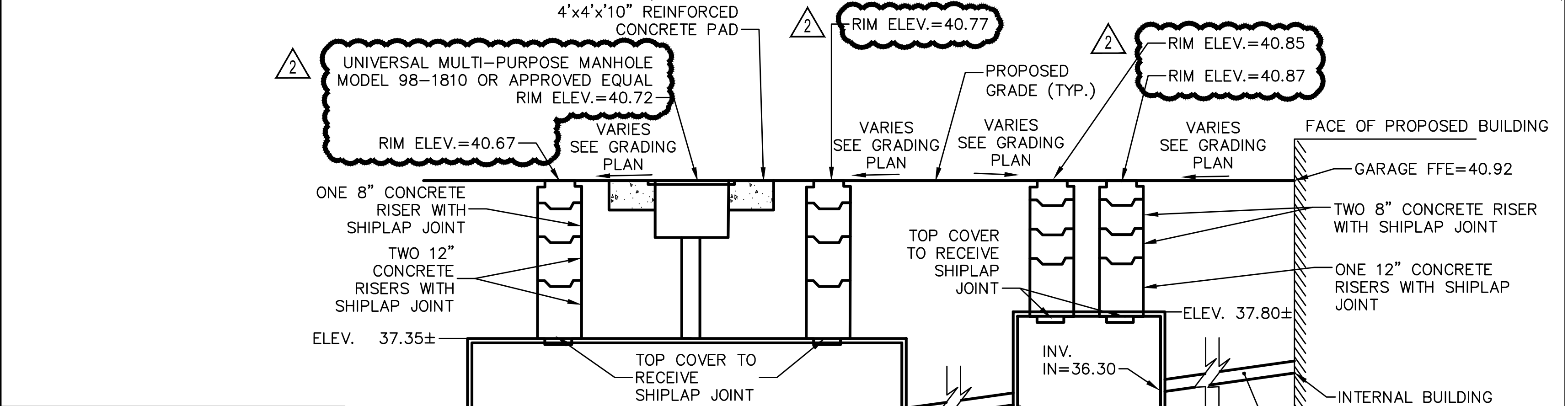
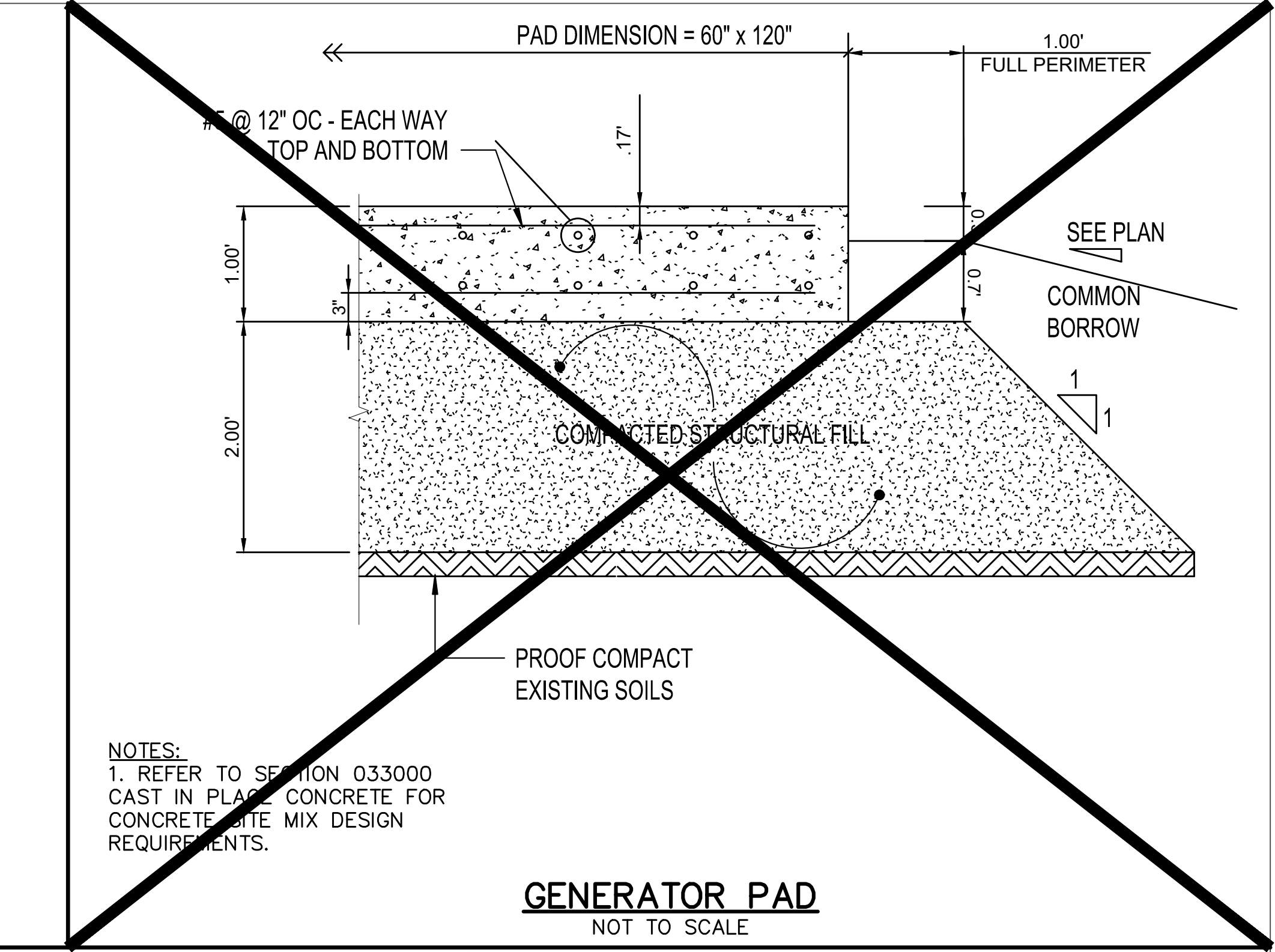
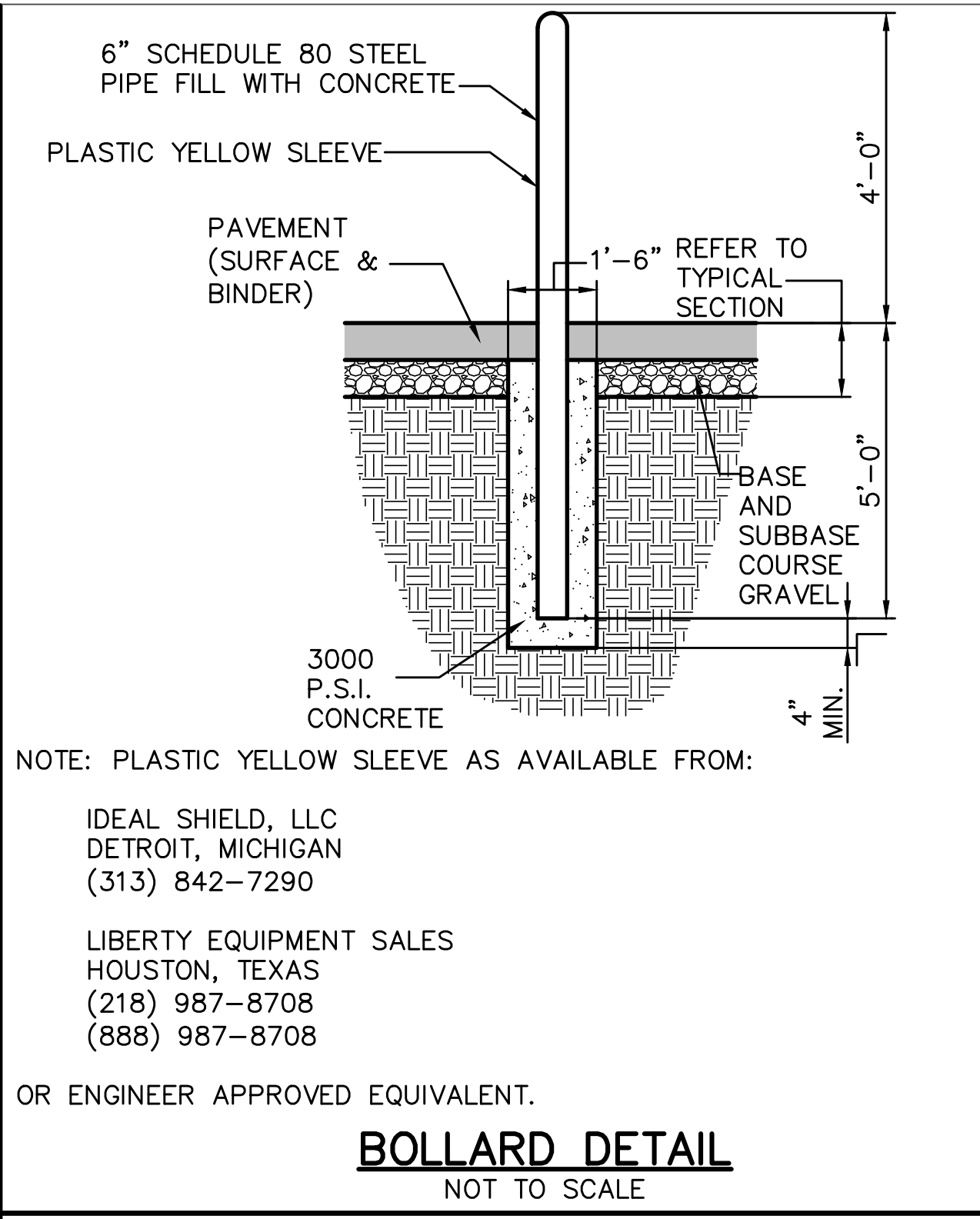


4/3 I.D. PIPE + 1'-6" (MIN. 3'-0")

SCHEDULE OF TRENCH BACKFILL		
TYPE OF PIPE	EMBEDMENT MATERIAL	SELECT BACKFILL
PVC-SDR 35 HDPE	MDOT 703.22 TYPE C 3/4" CRUSHED STONE	MDOT 703.22 TYPE B UD BACKFILL
PERFORATED PVC-SDR35 HDPE	MDOT 703.22 TYPE C 3/4" CRUSHED STONE	MDOT 703.22 TYPE C 3/4" CRUSHED STONE

**TRENCH SECTION**  
NOT TO SCALE

NOTE: SERVICES TO BE SIMILAR EXCEPT MINIMUM WIDTH IS 2 1/2 FT. WHERE APPLICABLE



Scale: N/A

No.	Revision	By	Date
2	ADDENDUM 2		5/5/23

Designed by:  
ALTON M. PALMER, P.E.

ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
AMP	03/28/23	AMP	03/28/23



CONTRACT 2023.06  
YORK VEHICLE STORAGE GARAGE  
DETAILS - 2

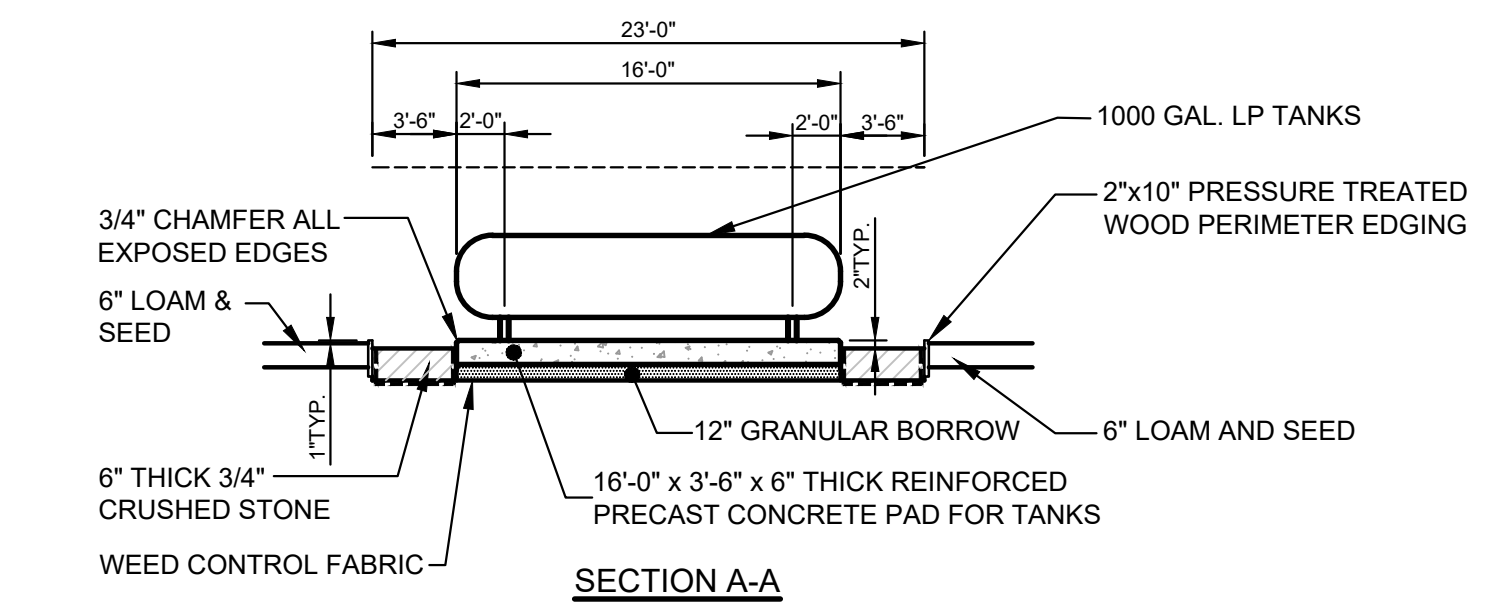
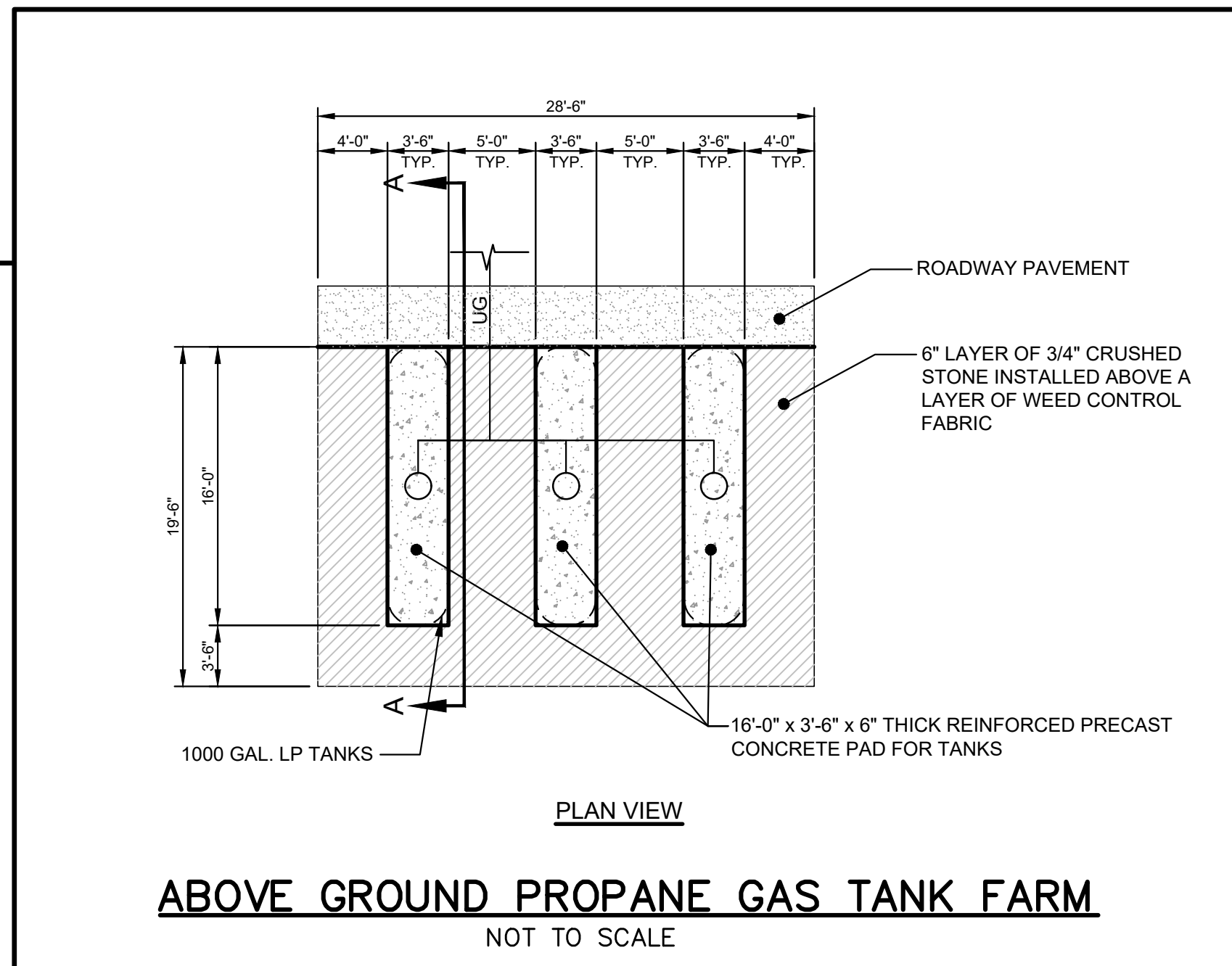
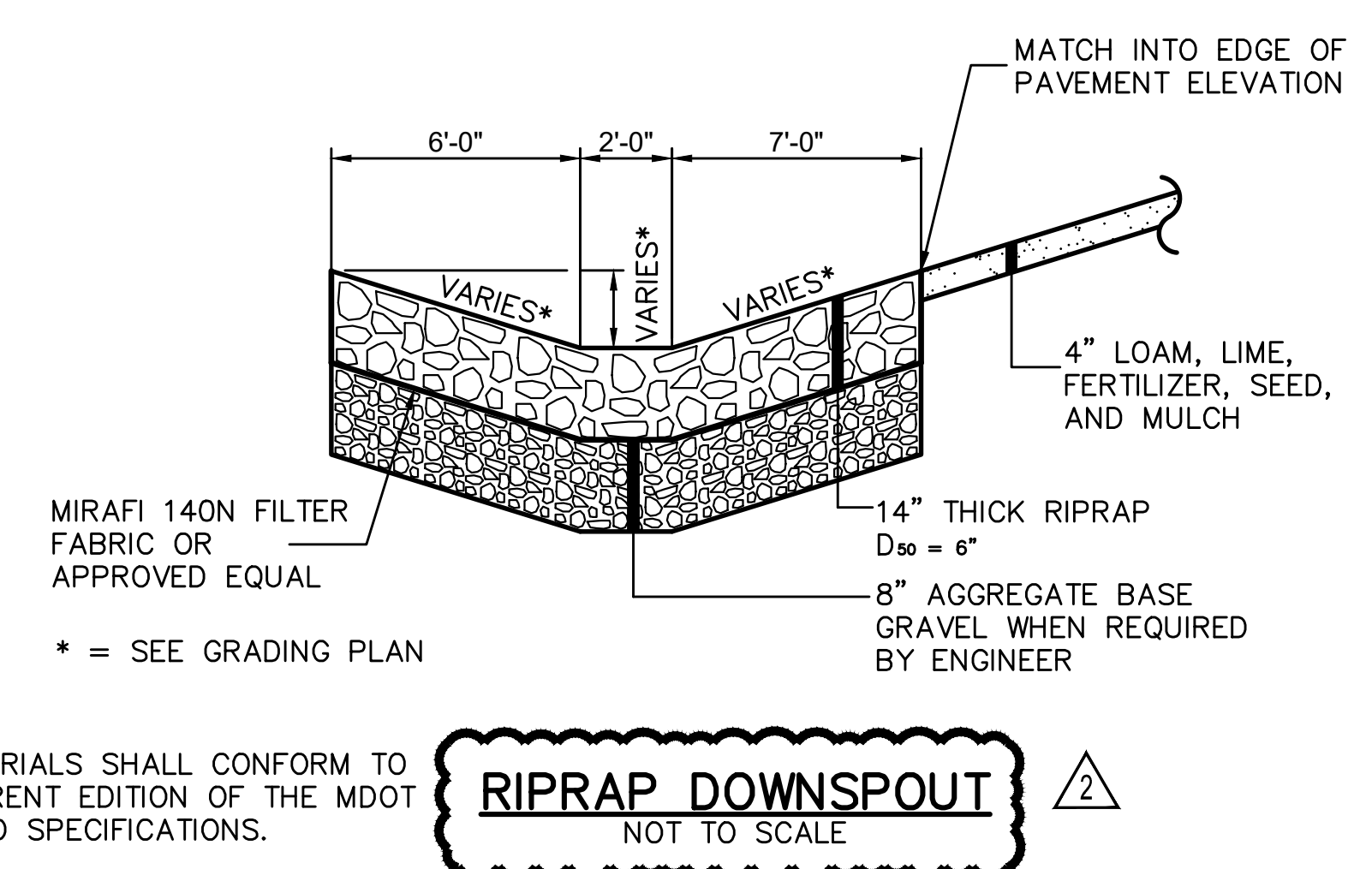
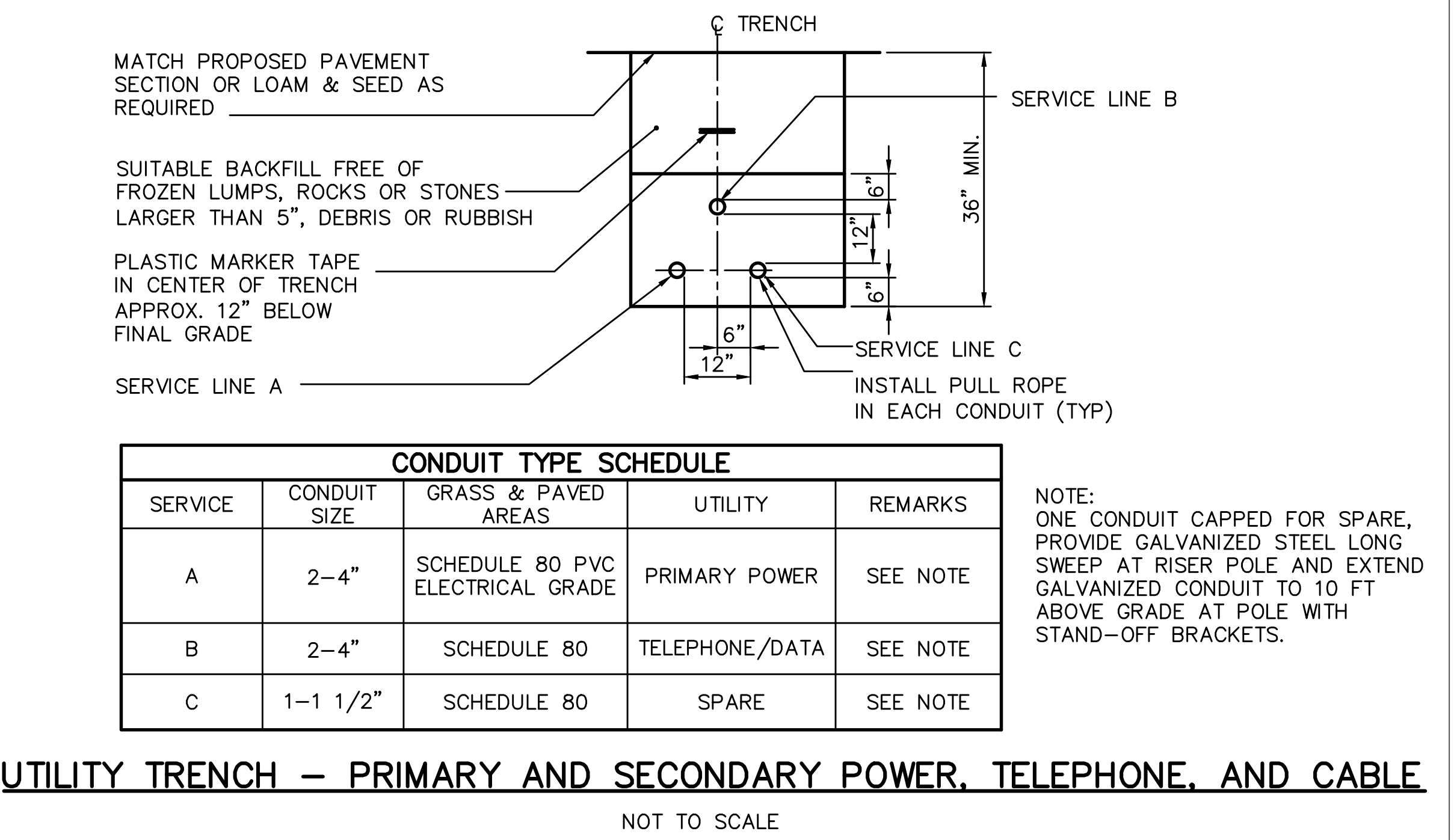
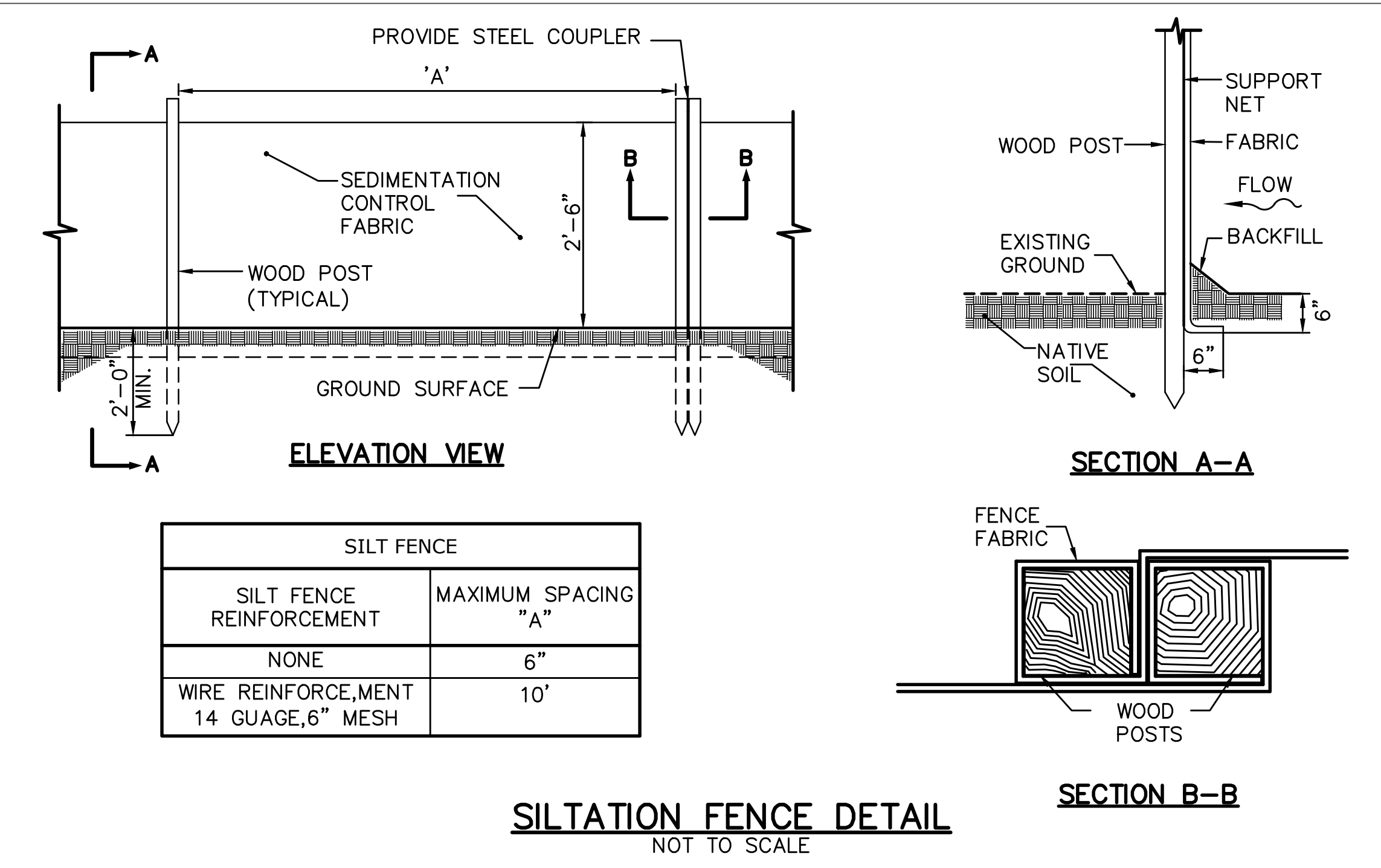
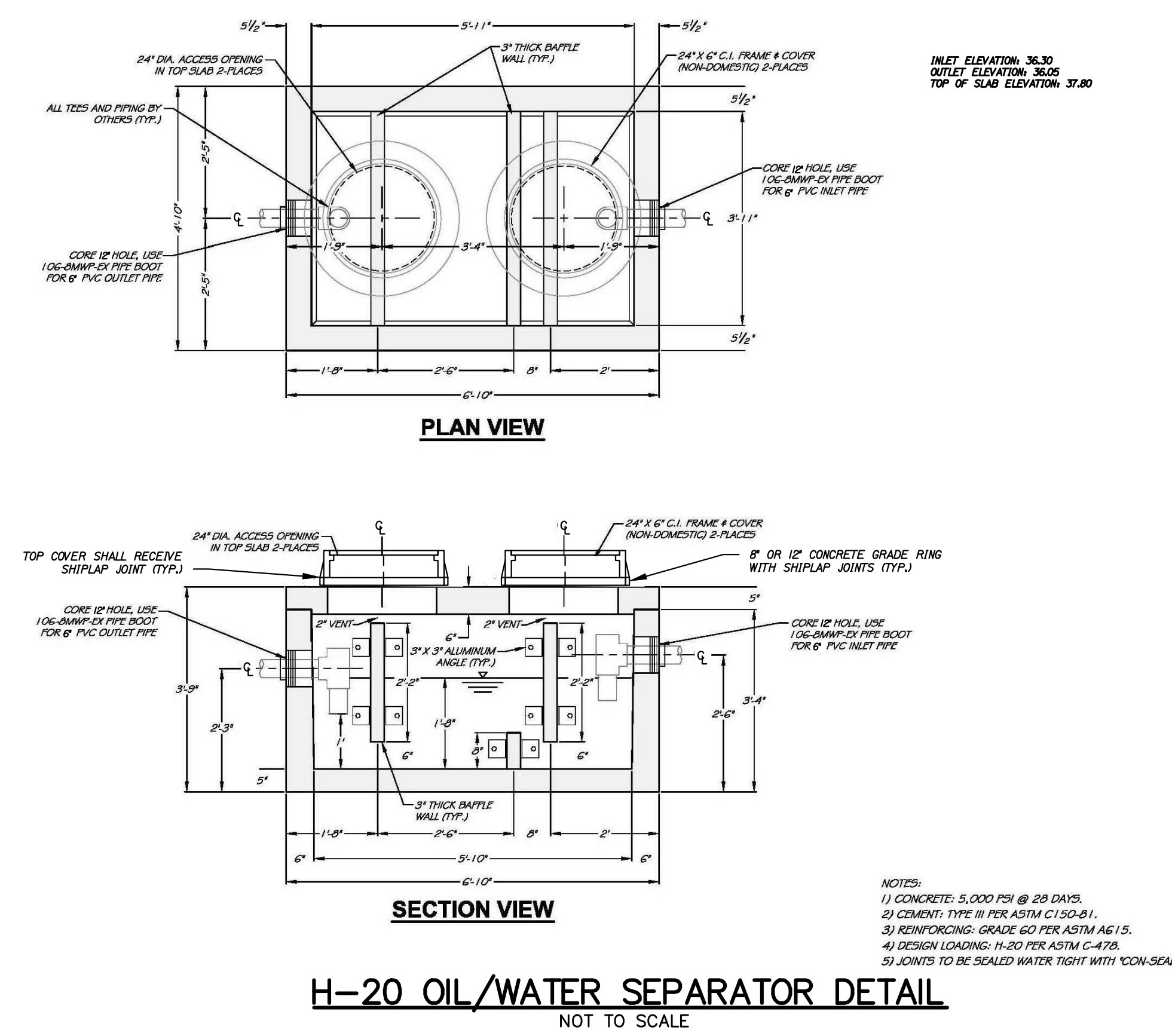
SHEET NUMBER: C-402

CONTRACT: 2023.06

8 OF 33

PROJ.NO.: 3660 CAD FILE: 3660-DETAILS.dwg

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.





36" WIDE EGRESS DOOR  
CAPACITY = 170 OCC  
ACTUAL = 7/3 OCC

POINT OF REMOTENESS  
TRAVEL DISTANCE =  
128'  
MAX. ALLOWED = 200'

36" WIDE EGRESS DOOR  
CAPACITY = 170 OCC  
ACTUAL = 7/3 OCC

36" WIDE EGRESS DOOR  
CAPACITY = 170 OCC  
ACTUAL = 7/3 OCC

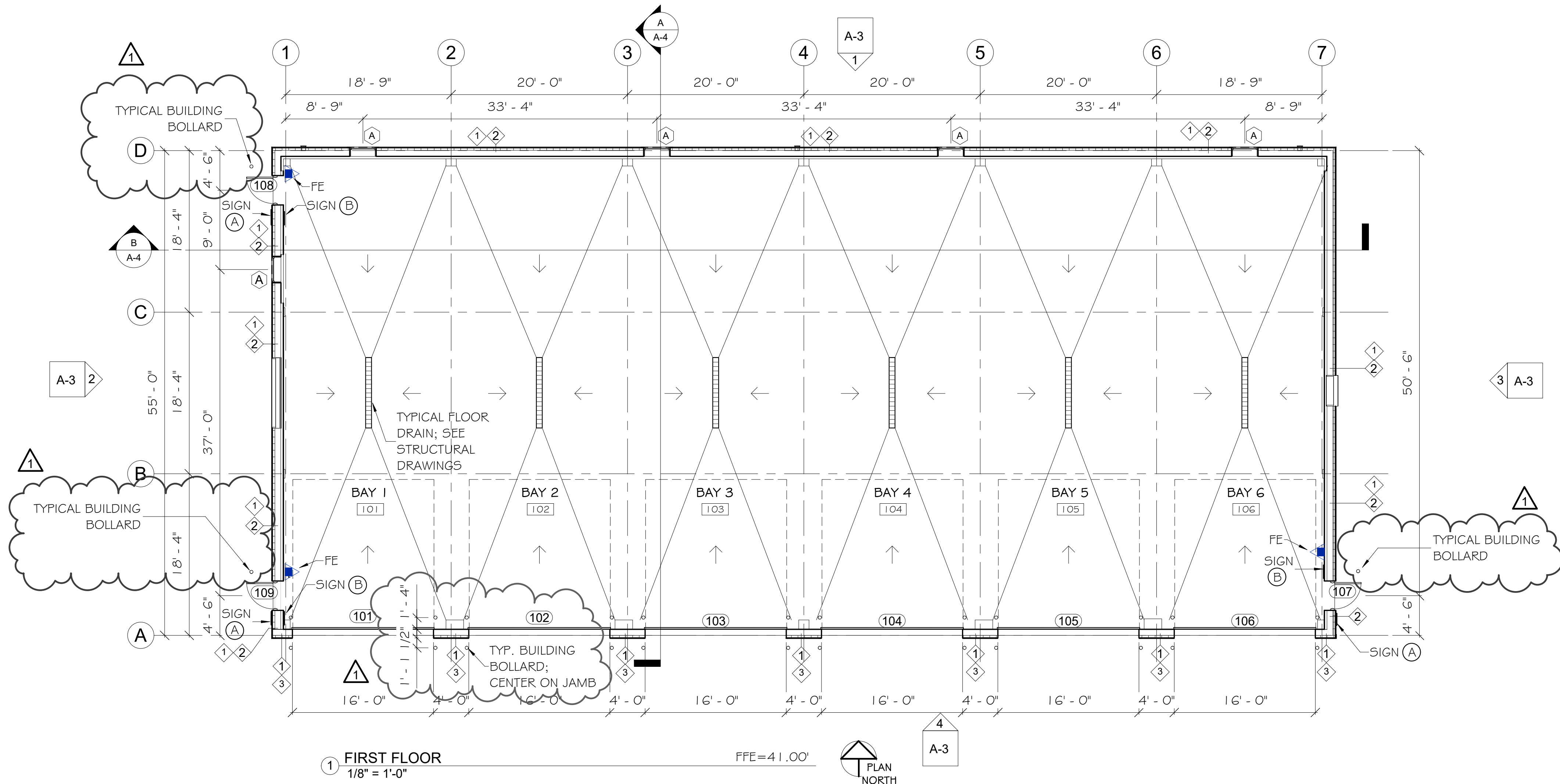
2 CODE COMPLIANCE PLAN  
3/32" = 1'-0"  
6,600 SF GROSS

EGRESS SYMBOLS LEGEND	
	DIAGONAL DISTANCE
	EGRESS SEPARATION
	EGRESS PATH

NFPA LEGEND	
SYMBOL	DESCRIPTION
	EXIT LIGHT
	ABC FIRE EXTINGUISHER w/ BRACKET
	EMERGENCY LIGHT
	EMERGENCY / EXIT LIGHT
	EXTERIOR EMERGENCY LIGHT

OCCUPANT LOADS	
IBC 2015	14
NFPA 2021	6 (MP)

- NOTES**
- SEE SHEET A-8 FOR ACCESSIBILITY DETAILS & NOTES.
  - SEE SHEET A-8 FOR ADA SIGNAGE.
  - SEE SHEET A-8 ACCESSIBILITY DETAILS AND NOTES FOR MOUNTING HEIGHTS OF LIFE SAFETY DEVICES.



1 FIRST FLOOR  
1/8" = 1'-0"  
FFE=41.00'

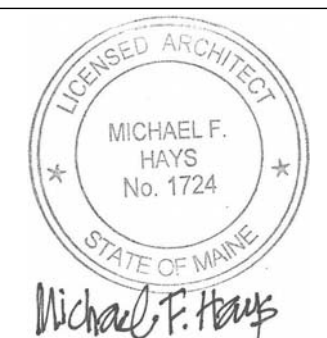
WALL TYPES	
	1 A7
	2 A7
	3 A7

Scale: As indicated

No.	Revision	By	Date
1	BOLLARDS	GHA	04/13/23
2	IBC CODE, EXT. WALL HEIGHT	GHA	05/05/23

Designed by:  
MICHAEL F. HAYS, RA  
ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
Designed: MFH	03/28/23	Checked: MFH	03/28/23
Drawn: MGK	03/28/23		



**GRANT HAYS ASSOCIATES**  
ARCHITECTURE & INTERIOR DESIGN  
P.O. BOX 6179 FALMOUTH MAINE 04105  
207.871.5900 www.granthays.com



**THE GOLD STAR MEMORIAL HIGHWAY**

**CONTRACT 2023.06  
YORK VEHICLE STORAGE GARAGE  
CODE COMPLIANCE & FIRST FLOOR PLANS**

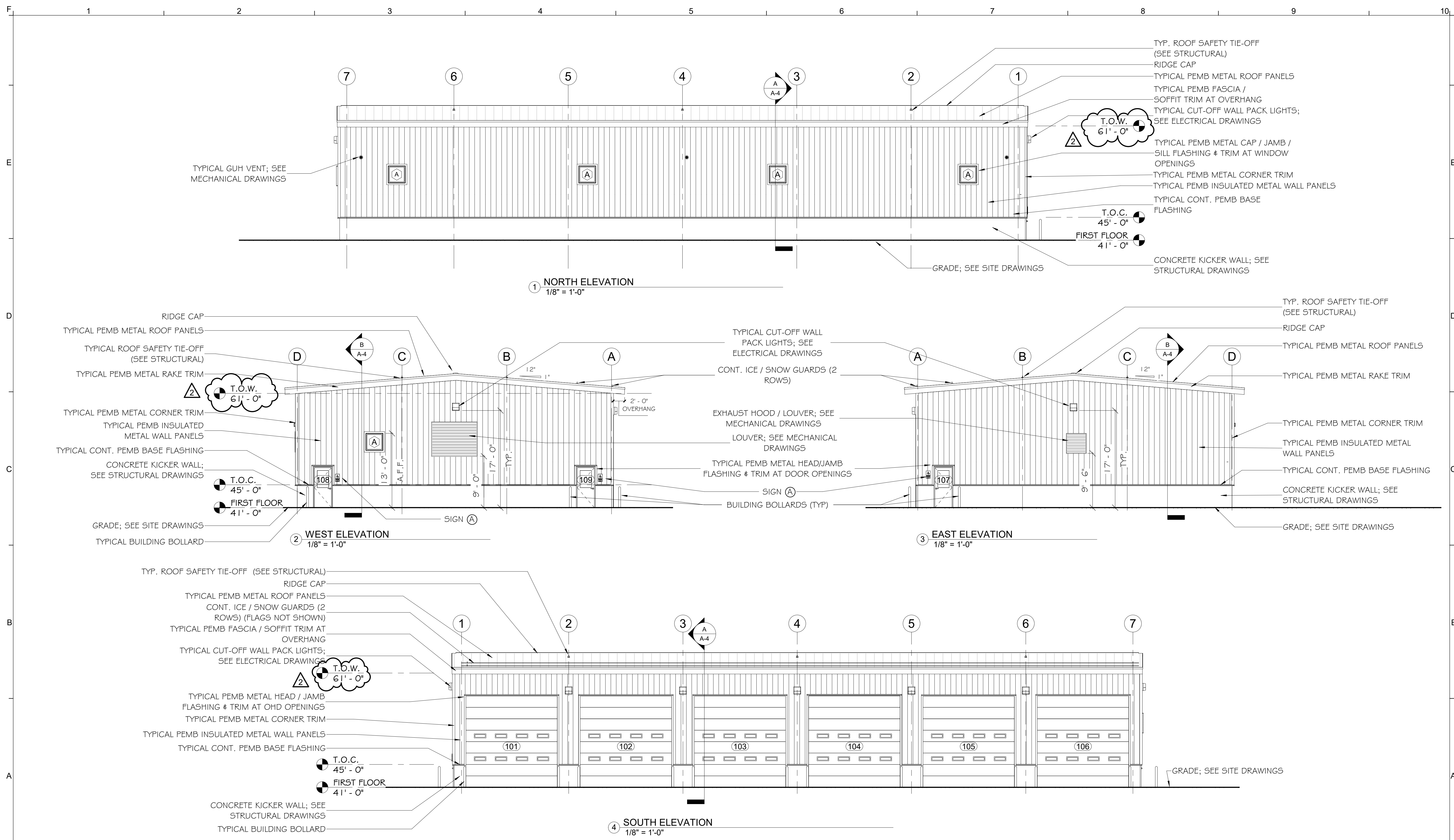
AEI PROJ.NO.: 20020 CAD FILE:

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

CONTRACT: 2023.06

SHEET NUMBER: A-1

12 OF 33



Scale: 1/8" = 1'-0"

No.	Revision	By	Date
2	IBC CODE, EXT. WALL HEIGHT	GHA	05/05/23

Designed by:  
 MICHAEL F. HAYS, RA  
 ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
Designed: MFH	03/28/23	Checked: MFH	03/28/23
Drawn: MGK	03/28/23		

**GRANT HAYS ASSOCIATES**  
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 P.O. BOX 6179 FALMOUTH MAINE 04105  
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**THE GOLD STAR MEMORIAL HIGHWAY**

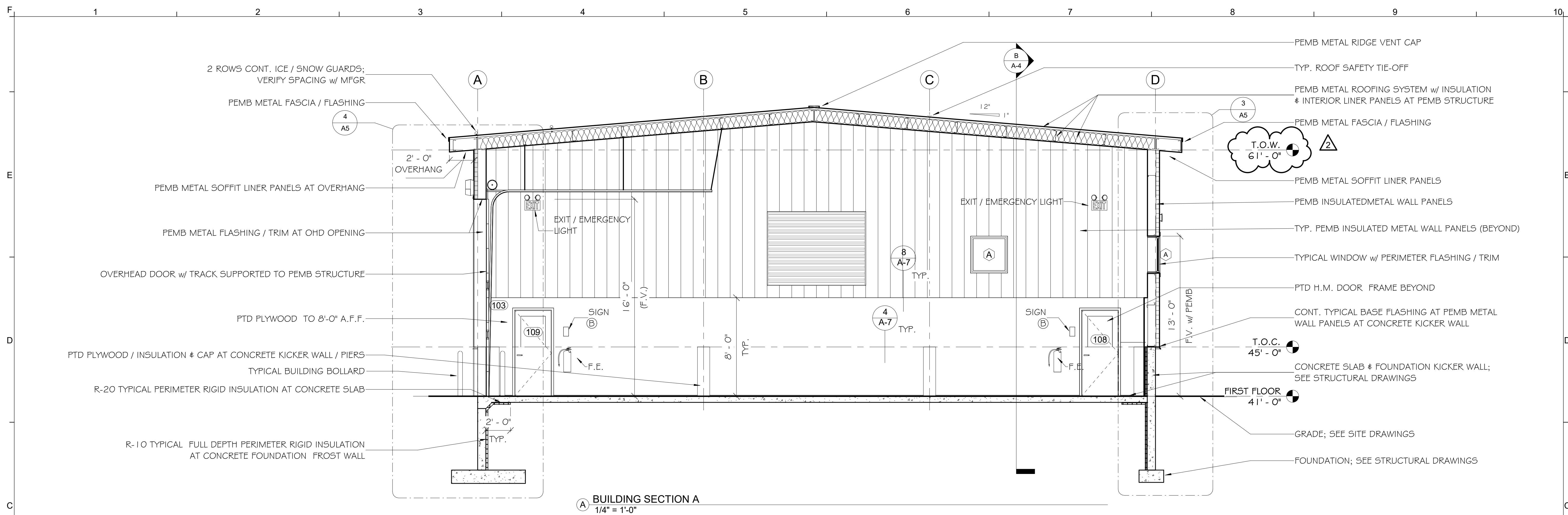
MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

**CONTRACT 2023.06**  
**YORK VEHICLE STORAGE GARAGE ELEVATIONS**

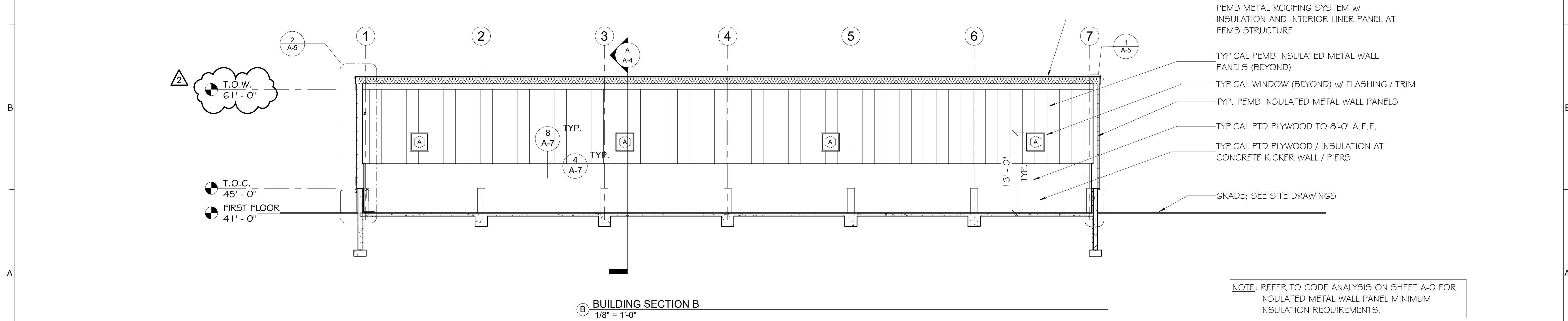
SHEET NUMBER: A-3

CONTRACT: 2023.06

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**A BUILDING SECTION A**  
1/4" = 1'-0"



**B BUILDING SECTION B**  
1/8" = 1'-0"

NOTE: REFER TO CODE ANALYSIS ON SHEET A-0 FOR INSULATED METAL WALL PANEL MINIMUM INSULATION REQUIREMENTS.

Scale: As indicated

No.	Revision	By	Date
2	IBC CODE, EXT. WALL HEIGHT	GHA	05/05/23

Designed by:  
MICHAEL F. HAYS, RA  
ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
Designed: MFH	03/28/23	Checked: MFH	03/28/23
Drawn: MGK	03/28/23		

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**THE GOLD STAR MEMORIAL HIGHWAY**

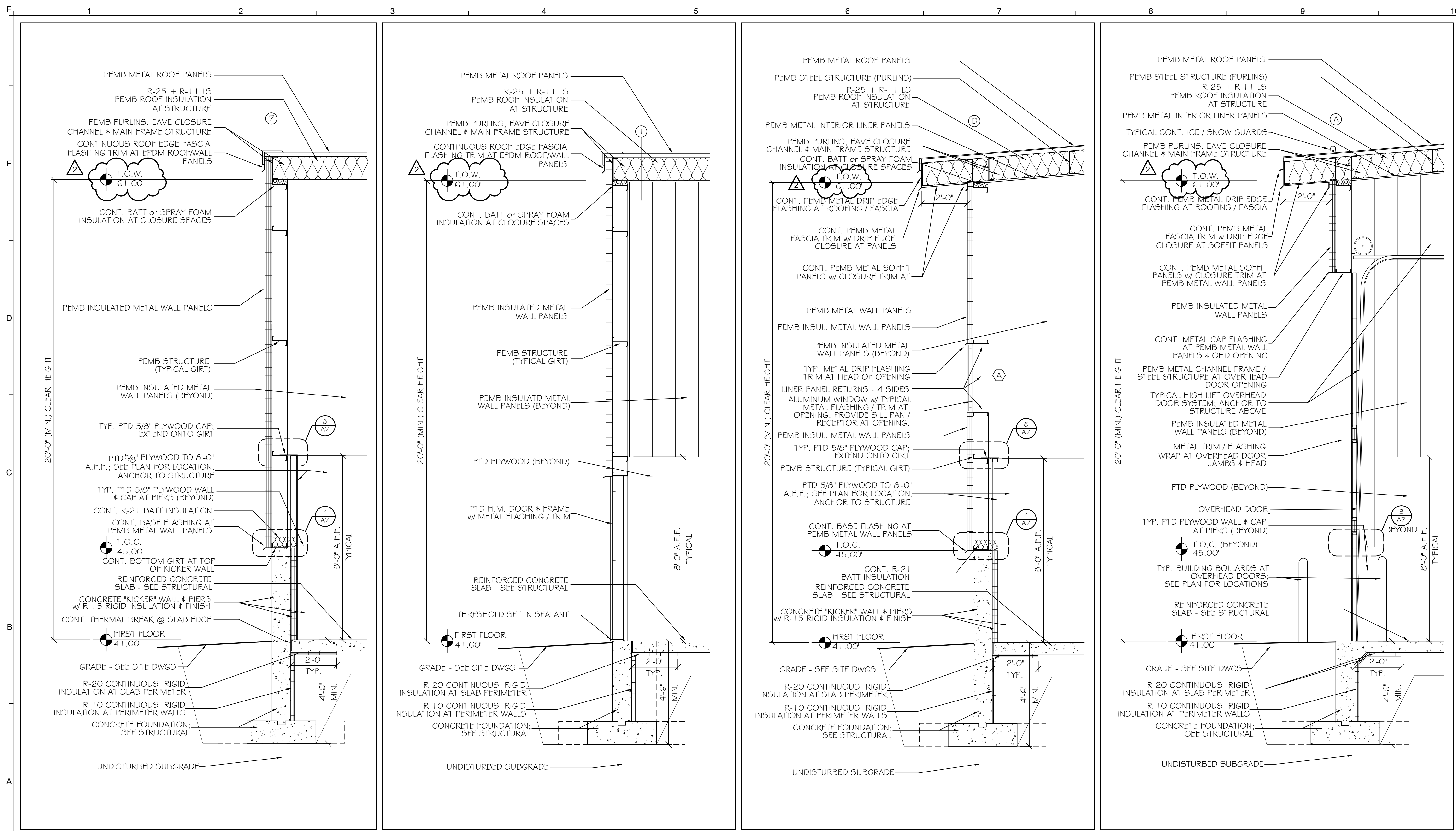
MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

**CONTRACT 2023.06**  
**YORK VEHICLE STORAGE GARAGE**  
**BUILDING SECTIONS**

SHEET NUMBER: A-4

CONTRACT: 2023.06

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① TYPICAL WALL SECTION 1/2" = 1'-0"    ② TYP. WALL SECTION AT H.M. DOOR 1/2" = 1'-0"    ③ TYP. WALL SECTION AT WINDOW 1/2" = 1'-0"    ④ TYP. WALL SECTION AT OVERHEAD DOOR 1/2" = 1'-0"

Scale: As indicated

No.	Revision	By	Date
2	IBC CODE, EXT. WALL HEIGHT	GHA	05/05/23

Designed by:  
 MICHAEL F. HAYS, RA  
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By	Date	By	Date
Designed: MFH	03/28/23	Checked: MFH	03/28/23
Drawn: MGK	03/28/23		

**GRANT HAYS ASSOCIATES**  
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**MAINE TURNPIKE**  
**THE GOLD STAR MEMORIAL HIGHWAY**  
 MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

**CONTRACT 2023.06**  
**YORK VEHICLE STORAGE GARAGE**  
**WALL SECTIONS**  
 SHEET NUMBER: A-5  
 CONTRACT: 2023.06  
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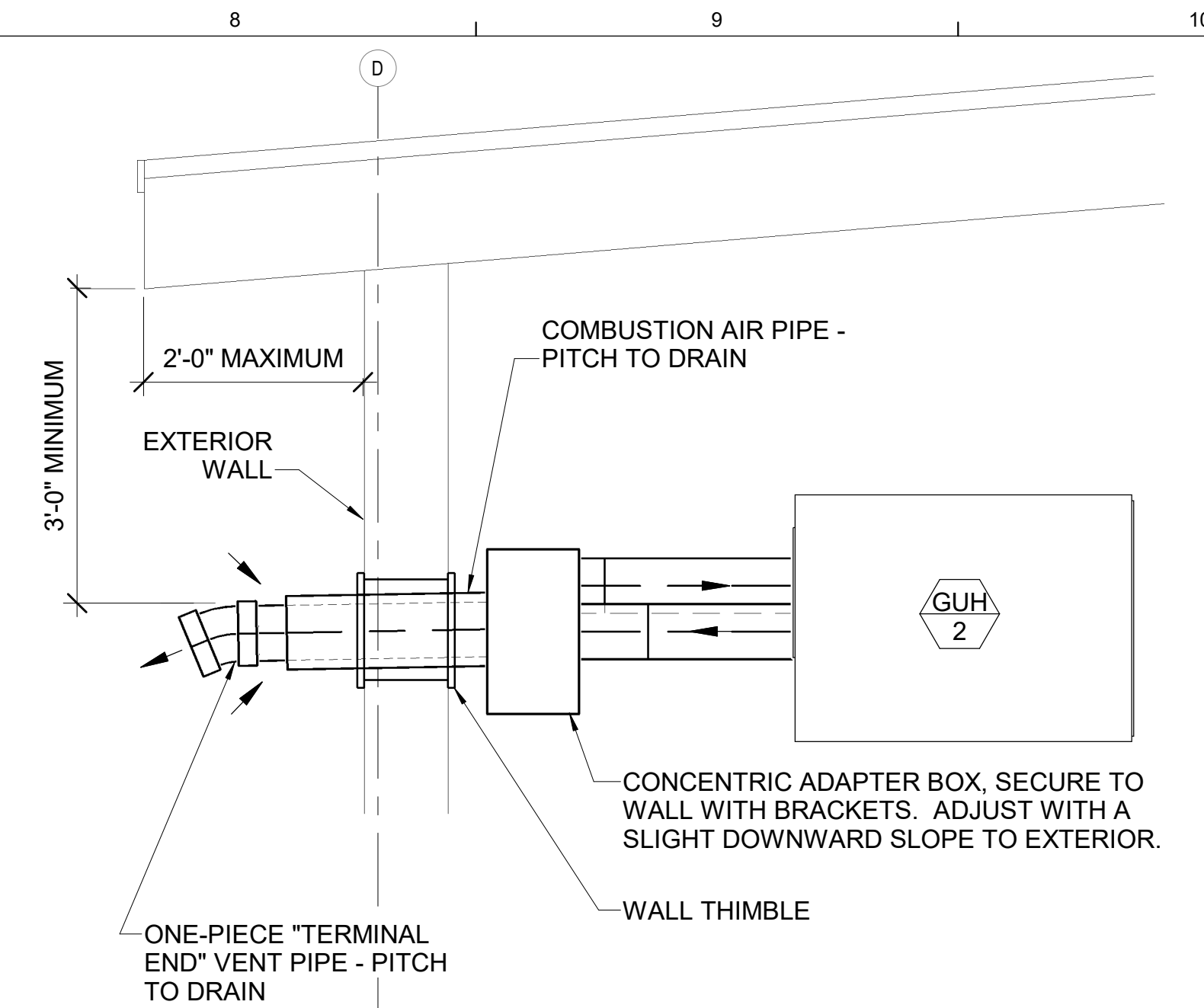
LOUVER SCHEDULE													
TAG	MAKE - MODEL	AIR SYSTEM	DUTY	CFM	DIMENSIONS					BEGINNING POINT OF WATER PENETRATI...	MAX P.D. MAX W.C.	SCREEN	NOTES
					HEIGHT (IN.)	WIDTH (IN.)	MIN. FREE AREA (SF)	NET VELOCITY (FT/MIN)	% FREE AREA				
L-1	RUSKIN ELF445DX	EF-1	INTAKE	9,100	72	72	18	505.6	50.0%	4"	873 FPM	0.06	SEE SPEC

FAN SCHEDULE													
TAG	SERVES	MANUFACTURER-MODEL	TYPE	DRIVE	CFM	ESP	MOTOR HP	VOLTS/PH	VFD	MAX SONES	DAMPER	WEIGHT (LBS.)	NOTES
EF-1	GARAGE EXHAUST	LOREN COOK - 30XMWH	WALL MOUNT w/HOOD	DIRECT	9,100	0.5	2	208/3	YES	30.0	MOD	500	1,3,4,5
DF-1 thru 3	DESTRATIFICATION	ZOO FANS H60 PREMIUM	DESTRAT. FAN	DIRECT	1,500	--	106w	115/1	NO	--	N/A	23	2

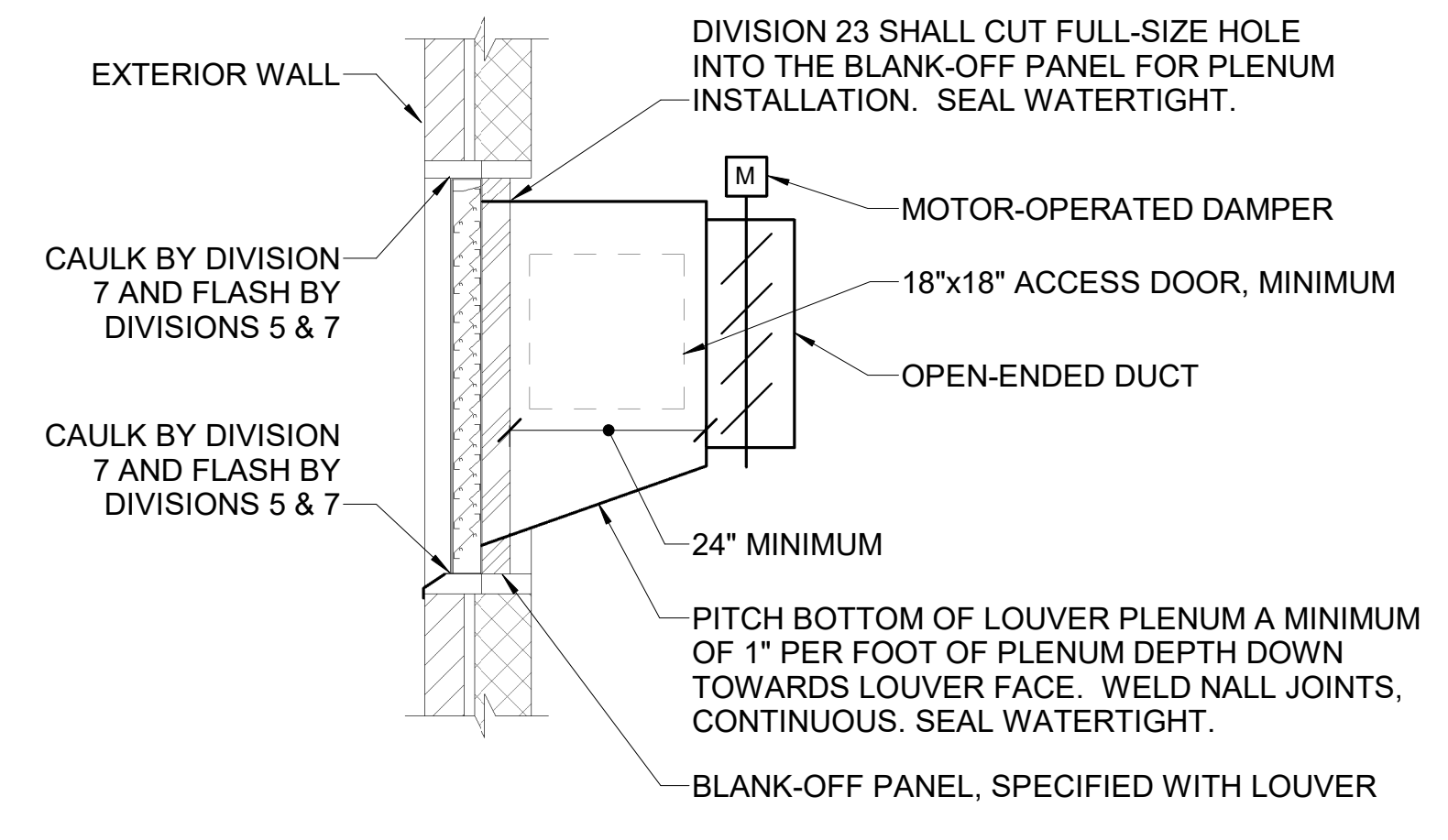
- NOTES:
- PROVIDE UNIT MOUNTED FACTORY DISCONNECT SWITCH AND STARTER.
  - PROVIDE WALL MOUNTED VARIABLE SPEED CONTROLLER.
  - INTERLOCK WITH LOUVER AND EF MOD'S
  - PROVIDE WALL-MOUNTED TIMER SWITCH AS MANUFACTURED BY INTERMATIC - MODEL No. EF2H OR EQUAL. COORDINATE w/ DIVISION 26 FOR OPERATION AS SPECIFIED.
  - PROVIDE WALL-MOUNTED VARIABLE SPEED DRIVE EQUAL TO INVERTER E3 SERIES, 230V SINGLE PHASE INPUT, 230V THREE PHASE OUTPUT.

LP GAS FIRED SEALED COMBUSTION UNIT HEATER SCHEDULE																			
TAG	SERVES	MFR. MODEL	SIZE	TYPE	EXPOSED FACE DIM.	DEPTH DIM.	WEIGHT LBS	INPUT MBH	OUTPUT MBH	DISCHARGE TEMP RISE	GAS PRESSURE RANGE (MIN-MAX)	GAS CONN. SIZE	CFM	VENT CONN.	COMB. AIR	MOTOR HP	MOP (AMPS)	ELECT	NOTES
GUH-1	GARAGE	REZNOR - UDZ	300	LP GAS FIRED SEPARATED COMBSTN	41" x 34"	48"	331	300	249	50-60F	7" -14"	3/4"	3840	6"	6"	1/2	20	115/160	1,2
GUH-2	GARAGE	REZNOR - UDZ	300	LP GAS FIRED SEPARATED COMBSTN	41" x 34"	48"	331	300	249	50-60F	7" -14"	3/4"	3840	6"	6"	1/2	20	115/160	1,2
GUH-3	GARAGE	REZNOR - UDZ	300	LP GAS FIRED SEPARATED COMBSTN	41" x 34"	48"	331	300	249	50-60F	7" -14"	3/4"	3840	6"	6"	1/2	20	115/160	1,2

NOTES: 1. Standard Built-in (20A) Disconnect Switch  
2. Concentric Venting



D8 DETAIL - GAS FIRED UNIT HEATER CONCENTRIC VENTING  
NOT TO SCALE TYPICAL FOR GUH-1 - GUH-3

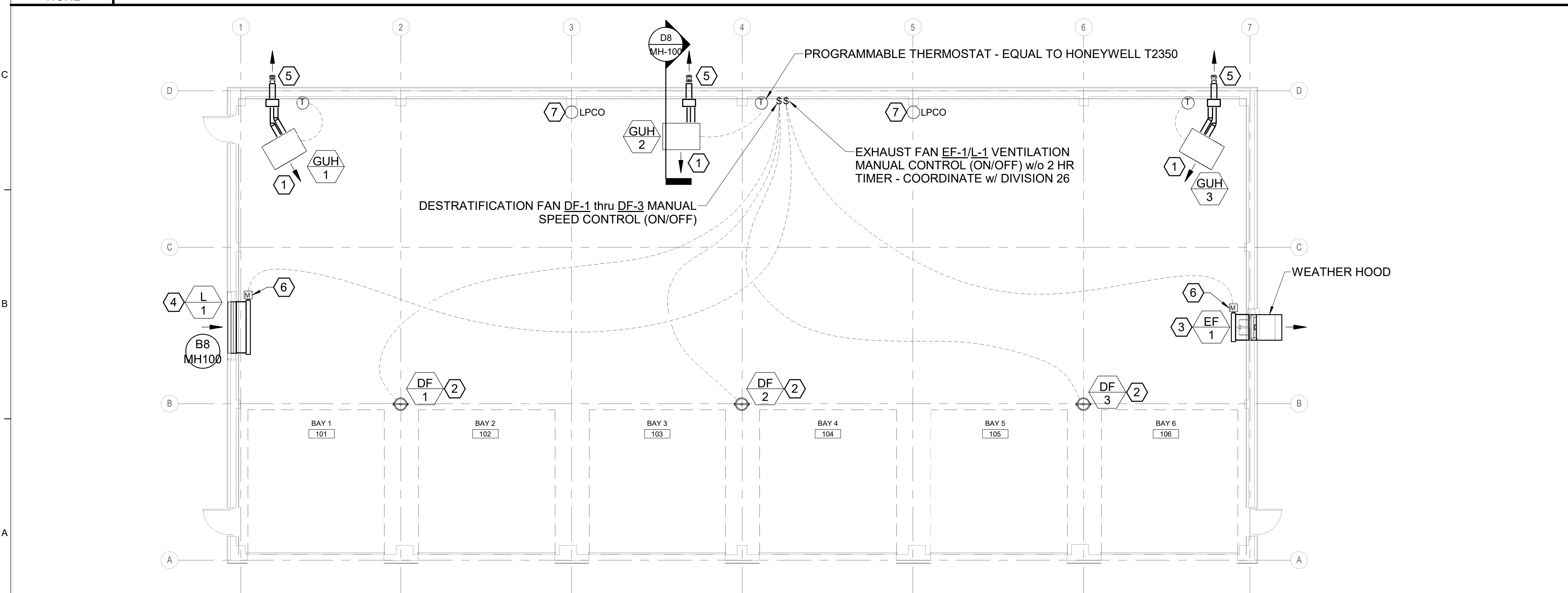


B8 DETAIL - EXTERIOR LOUVER  
NOT TO SCALE

- MOUNT UNIT HIGH AS POSSIBLE, TIGHT TO ROOF STRUCTURE, MAINTAINING MANUFACTURER'S MINIMUM RECOMMENDED CLEARANCES - APPROXIMATELY 13'-0" ABOVE FINISHED FLOOR.
- BOTTOM OF FAN = 14'-0" ABOVE FINISHED FLOOR.
- BOTTOM OF FAN = 9'-6" ABOVE FINISHED FLOOR.
- BOTTOM OF LOUVER = 9'-0" ABOVE FINISHED FLOOR.
- CONCENTRIC 6" EXHAUST VENT / 8" OUTSIDE AIR VENT THRU EXTERIOR WALL.
- LINE VOLTAGE MOD - COORDINATE w/ DIVISION 26.
- LP GAS AND CARBON MONOXIDE SENSOR - EQUAL TO MINI MERLIN LPGCO OR EQUAL, 120V AC, 90 mA MAX, 500-10,000 PPM MEASURING RANGED FOR LP GAS, 0-1,000 PPM FOR CO. GAS VALUE PRE-ALARM => 8% LEL FOR LP GAS, 20 PPM FOR CO. GAS VALUE ALARM => 10% LEL FOR LP GAS, 20 PPM AFTER 2 HRS / 50 PPM AFTER 1 HR / 100 PPM AFTER 10 MIN / 300 PPM AFTER 1 MIN FOR CO.

A8 KEYED NOTES  
NONE

D1	MECHANICAL SCHEDULES
NONE	



A1 MECHANICAL PLAN  
1/8" = 1'-0"

Scale: As indicated

No.	Revision	By	Date
1	ISSUED FOR ADDENDUM No. 2	AEI	05/05/2023

Designed by: *Anthony S. Davis*

ANTHONY S. DAVIS, P.E.  
ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
Designed:	HAG 03/28/23	Checked:	ASD 03/28/23
Drawn:	REW 03/28/23		

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MAINE TURNPIKE

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

**THE GOLD STAR MEMORIAL HIGHWAY**

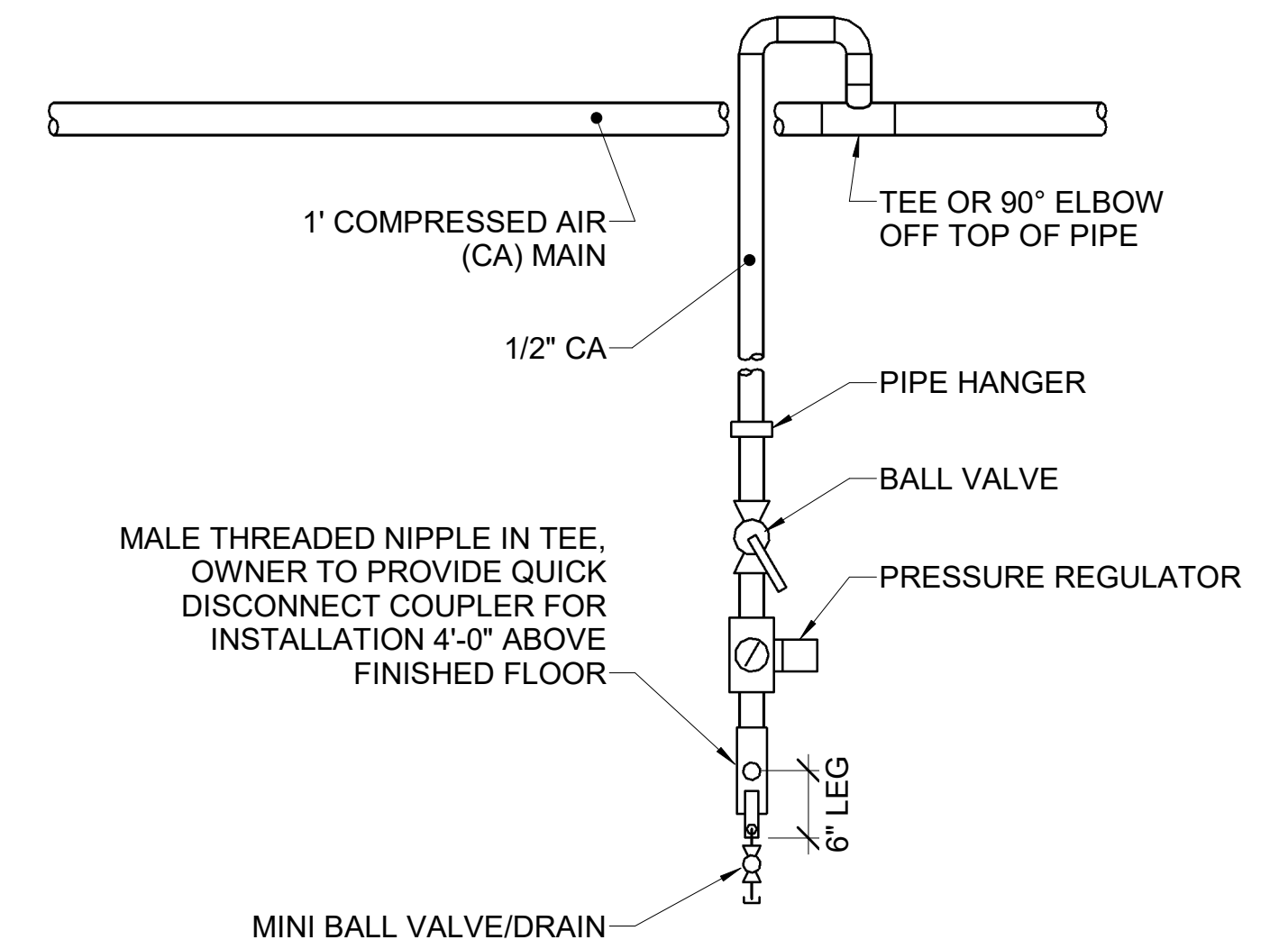
CONTRACT: 2023.06  
SHEET NUMBER: MH-100  
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EXPANSION TANK SCHEDULE	
SYSTEM	DOMESTIC HOT WATER
PIPE SIZE	3/4"
BLADDER-TYPE EXPANSION TANK	
MFR-MODEL	AMTROL ST-5
TANK DIAMETER	8
TANK HEIGHT	13
ACCEPTANCE VOLUME	2
WEIGHT LBS	5

ELECTRIC WATER HEATER SCHEDULE											
TAG	MANUFACTURER	MODEL	VOLTS	PHASE	HEAT INPUT (KW)	GPH RECOVERY	TEMP RISE (DEG-F)	WATER STORAGE (GAL)	HEIGHT (INCHES)	DIAMETER (INCHES)	APPROX WEIGHT (LBS.)
WH-1	AO SMITH	EJC-10	120	1	1.65	8	90	10	18	16	130

Note: Water Heater suspended in wall pan shelf equal to Holdrite #30-SWHP-M

AIR COMPRESSOR SCHEDULE														
TAG	MANUFACTURER	MODEL	TYPE	MAXIMUM FLOW EA. PUMP (acfm)	MAXIMUM PUMP PRESS. (psig)	RECEIVER			ELECTRICAL			PHYSICAL	NOTES	
						SIZE (gal.)	RECEIVER TYPE	DIA. (in.)	MOTOR QUAN.	MOTOR SIZE (hp)	MOTOR SPEED (rpm)	VOLT/PH		LENGTH/ WIDTH/ HEIGHT (in.)
AC-1	INGERSOLL RAND	2475N7.5	2-STAGE RECIP	24	175	80	VERTICAL	38	1	7.5	---	230/1	38/26/70	

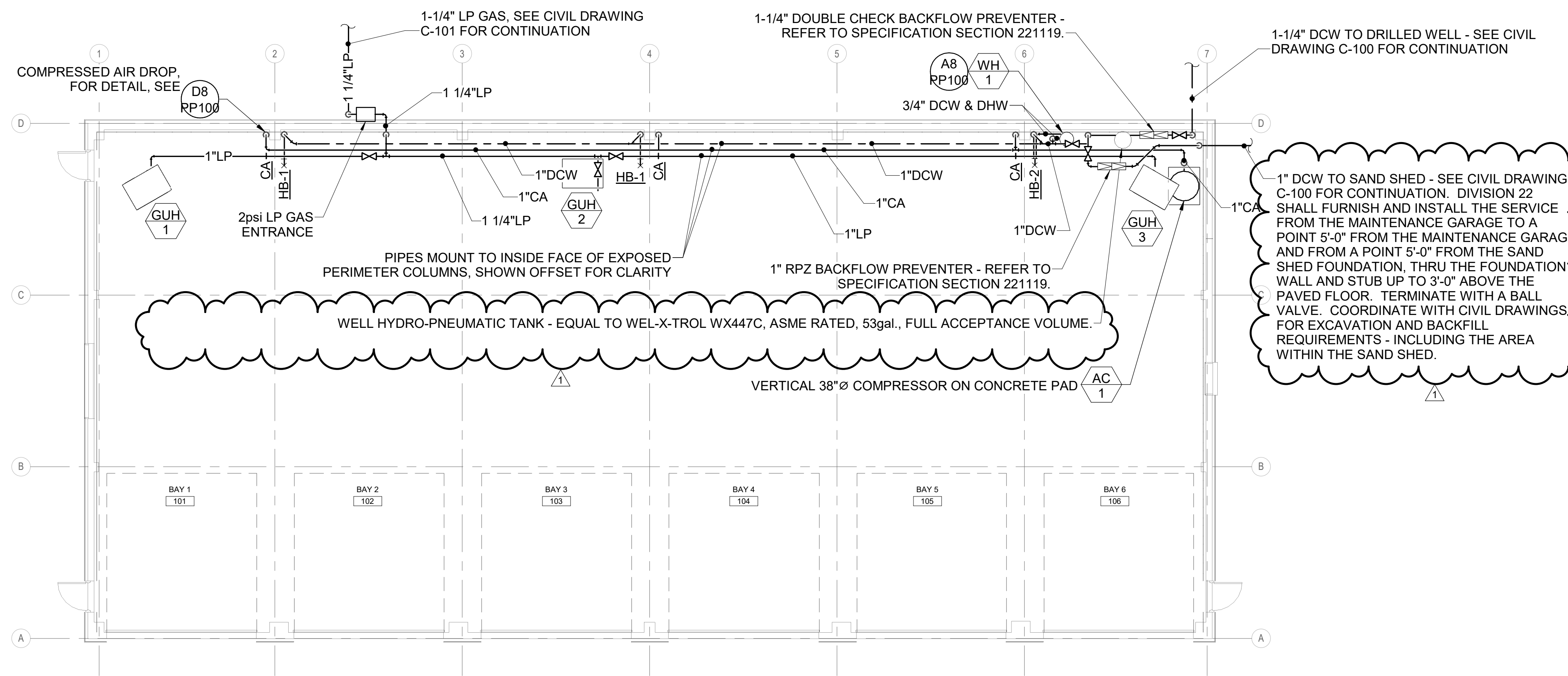


D1 PLUMBING SCHEDULES

NONE

D8 DETAIL ~ COMPRESSED AIR TOOL CONNECTION PIPING

NOT TO SCALE



A1 DOMESTIC PIPING PLAN

1/8" = 1'-0"

A8 DETAIL - DOMESTIC WATER HEATER PIPING SCHEMATIC - WH-1

NOT TO SCALE

No.	Revision	By	Date
1	ISSUED FOR ADDENDUM No. 2	AEI	05/05/2023

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ANTHONY S. DAVIS, P.E.  
ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
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REW	03/28/23		

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

CONTRACT 2023.06  
YORK VEHICLE STORAGE GARAGE  
DOMESTIC PIPING PLAN

SHEET NUMBER: PP-100

CONTRACT: 2023.06

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