



Addendum #1



Date: March 5, 2025

To: All Project Bidders and Holders of Project

Subject: Addendum #1
H&P Project # 20230622
Martin Drive Regional WWPS – Contract A
Campbell County, VA

All contractors, subcontractors, suppliers, and vendors submitting Proposals on or related to this project shall incorporate in their proposals all items as described herein, and further, shall acknowledge on the Bid Proposal Form, the receipt of this Addendum.

Item One: Pre-bid Meeting Minutes

1. The pre-bid meeting minutes and attendance list are attached to this addendum.

Item Two: Questions

1. The drawings and specifications have different operating head conditions. Please confirm.
Response: Documents updated to 675 gpm @ 224 ft TDH with 14.25" impeller.
2. Pressure gauges shall be Ashcroft 1008, 0-150 psi with 4" dial.

Item Three: Contract Specifications

1. Revised Bid Form A-3 to include line item add MH and valve for Contract A/B transition. Structure(s) can be installed by either Contract A/B. Since a unit price contract, only the contractor installing the structure will be paid for the structure.
2. Revised Agreement C-520, to include line item add MH and valve for Contract A/B transition. Structure(s) can be installed by either Contract A/B. Since a unit price contract, only the contractor installing the structure will be paid for the structure.
3. Revised Notice to Proceed C-550, to remove the AIS reference.
4. Revised Section 333200, Wastewater Pump Station, Pump Characteristics to match the operating head conditions.

Item Four: Drawings

1. Pump Station Site Plan Sheet C-110, added / changed
 - a. Light pole location
 - b. Backflow preventor from well to frost free yard hydrant.
 - c. Entrance section detail reference added.
2. Pump Station Details Sheet C-503, added / changed
 - a. Added air/vacuum valve in the valve vault.
 - b. Updated distance between wetwell wall and crane foundation.
 - c. Updated the type and model number for the rail system.
 - d. Added the model number for the pressure transducer on the pump control sequence table.

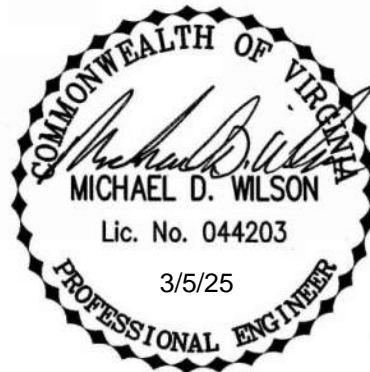


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- e. Updated the pump characteristics in the pump schedule to match the specifications.
- f. Updated the elbow connection from the pump to the discharge line, this is now a 4" x 6" reducing elbow with concrete pad to support elbow.
- g. Updated the distance the bottom of the pump needs to be from the bottom of the wetwell.
3. Pump Station Site Details Sheet C-504, added / changed
 - a. Added backflow preventor detail.
 - b. Updated the fencing detail.
4. Electrical Sheet E-102, added / changed
 - a. Added air/vacuum valve in the valve vault.
5. Electrical Sheet E-501 added / changed the Base bid control panel shelter configuration.

End of Addendum 1





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Pre-Bid Conference Minutes
February 25, 2025 11:00 am



1. Welcome and Introductions

○ **Project Personnel**

- Mike Wilson, PE – Hurt and Proffitt, Inc. Project Manager
- Chad Hodges, PE – Hurt and Proffitt, Inc. Project Engineer
- Tim Wagner, PE – CCUSA Engineering Director
- Todd Asselborn, PE – Utilities Engineer
- Jeff Wells, PE – CCUSA Executive Director (Not Present)

○ **Attendance List**

This is a mandatory pre-bid meeting. Please complete the sign-in sheet. Your company must be on the sign-in sheet in order to submit a bid. The list will be provided with Addendum 1.

○ **Minutes**

Pre-bid minutes will be part of Addendum #1 and distributed to those on sign-in sheet. Any addenda will also be posted on the eVA site, CCUSA website, and the H&P website.

○ **Meeting Location**

CCUSA office, 20644 Timberlake Road, Lynchburg, Virginia, 24502

2. Scope of Work

The improvements are being completed to develop a regional wastewater pumping station for the Martin Drive area. The work shall include, but is not limited to, the furnishing of all labor, materials and equipment, and the performing of all work for **CONTRACT A** portion of the above referenced project. Items include the construction of a new pump station, approximately 60 lf of force main, 60 lf of gravity sewer, and other appurtenances. The sanitary sewer and forcemain will be continued under Contract B, to be bid at a later date. The project includes associated erosion and sediment control measures necessary to construct the pump station, as shown on the plans and as described in the technical specifications.

3. Schedule:

- Project was advertised on Monday, February 10, 2025.
- Mandatory prebid held on February 25, 2025.
- Meeting minutes will be provided as part of Addendum #1.
- All questions must be submitted in writing or email no later than Monday, March 3, 2025 by 5:00 pm. This will allow the Engineer time to prepare responses to the questions and issue appropriate addenda by 5 pm on Wednesday, March 5, 2025. Only questions submitted in writing (letter or email) will be considered and addressed in any addenda.
- A Bid Bond equal to 5% of the bid is required with all bids.
- All Bids shall be submitted as hard copies to the CCUSA office. Sealed bids can be submitted electronically through eVA but a hard copy of the bid must be submitted as well.
- **Bid submittal is on Tuesday, March 11, 2025 at 2:00 pm.** Bids to be submitted to:

Campbell County Utilities and Service Authority
20644 Timberlake Road
Lynchburg, Virginia, 24502
Attn. Tim Wagner, PE Engineering Director



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- It is the responsibility of the Bidder to ensure that CCUSA receives the submittal by the proposal due date and time. No submittals or modifications to submittals will be accepted after the proposal due date and time.
- Bids will be opened publicly at the same time and place. Results will be tabulated and provided to bidders.
- Notice of Award is expected to be given shortly after March 26, 2025.
- Issuance of the Notice to Proceed is expected to be given on or before April 25, 2025.
- Bidder agrees that the work will be **substantially complete within 330 days** of issue of Notice to Proceed. **Final completion will be 35 calendar days** after substantial completion.

4. Construction stakeout, materials testing, and inspection:

- Construction stakeout is to be provided by the Contractor.
- CCUSA has contracted with Hurt & Proffitt, Inc. to perform compaction testing.
- CCUSA has contracted with Hurt and Proffitt, Inc. to perform CCTV inspection of the gravity sanitary sewer.
- CCUSA will be providing construction administration and inspection for the project. Likely Todd Asselborn and Greg Meese.

5. Existing Utilities:

- The Contractor shall locate all existing utilities before starting work.
- The Contractor must contact the Owner before connecting to any utility.

6. Work:

- The regional wastewater pump station, forcemain, and gravity sewer will be divided into multiple contracts (A, B, & C) as shown on the drawing cover sheet G-101.
- **Contract A** work involves construction of the pump station site.
- Future Contract B is generally described as the parallel gravity sewer and forcemain from Martin Drive to Farfields Dr. This work will be advertised in a few weeks.
 - The pump station site sewers will connect to the parallel forcemain and sanitary sewer work completed with Contract B.
 - The forcemain shown in Contract B will be extended/connected to the CCUSA forcemain by others through an adjacent Thomas Builders of Virginia development project.
 - CCUSA expects that there will be 3 active contracts (Contracts A & B and the adjacent development) to complete the PS/FM work at about the same time.
- Future Contract C is generally described as the gravity sanitary sewer upstream of Farfields and will be completed after Contract B.
- Contract A work shall be installed per standards and specifications listed in Contract Documents.

7. Staging area:

- The Contractor shall coordinate the locations of staging and storage.
- Any private property used for staging is to be arranged between the Contractor and individual property owner.

8. Erosion and sediment control:

- All erosion control measures shall be installed before any work starts.



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- E&S measures shall be installed and maintained in accordance with the Virginia Erosion and Sediment Control Manual.

9. Property

- The sanitary sewer improvements shall be installed on CCUSA property.

10. Restoration

- Due to public perception as well as E&S requirements, it is preferred by the Owner that restoration is performed daily, but weekly restoration may be acceptable.
- Restoration shall be to as good or better condition as original.

11. DEQ Permit:

- The Certificate to Construct will be issued by DEQ.

12. Reporting Requirements:

- MBE Requirements
 - All appropriate contract inserts pertaining to MBE/WBE must be completed as part of the bid documents.
 - Each bidder is expected to make a good faith effort to solicit MBE/WBE firms.
 - A MBE/WBE checklist must be completed and included with each bid.
 - Contractor to provide good faith efforts
- Davis Bacon and AIS requirements do not apply.

13. CCUSA Comments

- Described project location and access.
- The site can be visited.
- Bid documents include geotech report. Contactors can do additional investigations if needed.
- There is a rock quantity on the bid form. Actual rock quantity will be measured in the field per specifications.
- There are wetlands on the pump station site. No work shall occur in the wetlands.
- CCUSA noted that there is a HOA downstream and that they monitor creek flows from storm events. Instructed contractors to install adequate ES& measures before tree clearing and maintain until restoration is complete.
- Explained that the PS is in two levels due to the 100-yr floodplain elevation created by the culverts under Timberlake. Controls needed to be above 100-yr but the PS only need to be above the 25-yr.
- CCUSA will acquire the LUP. Successful contractor will need to provide RLD.

Questions – General Questions/Discussion

1. On the bid form, what is the insulated line structure (Line 21)?

Response: insulated cover for backflow preventer.

2. Does water system need a pressure tank?

Response: No. Owner will manually turn on/off when needed.



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3. There are references to AEP and Dominion, who is the power supplier?
Response: AEP. CCUSA has already met them on-site to discuss power feed from the west side of Timberlake.

4. Can more information about the Alternate Smith Midland Building be provided?
Response: For a Smith Midland building a concrete sloped roof is acceptable. As an example, there is a similar structure at Seneca Park. Contact CCUSA if interested in visiting structure.

5. Pump station drawing only shows one pole but a light pole and antennae are referenced.
Response: Additional pole will be identified.

6. Are other integration / control panels acceptable?
Response: Yes. Substitutions need to meet the requirements noted in the specifications and drawings. Two panels are required. Pump station starter and control. The current system integrator is

Chris Hanson, Sales Engineer
Altavista Instruments & Controls
1510 Main St, Altavista, VA 24517
Mobile: 434-369-6089

7. Notice to proceed form has reference to AIS?
Response: Form will be updated and reference removed.

8. Can an alternate pump station configuration (ie. 8'x10') be provided?
Response: Alternate configurations are allowed. The cross-sectional area shall meet or exceed that of the proposed 10' diameter structure. Contractor shall ensure bottom is properly sloped to the pumps. Contractor shall provide anti-buoyancy calculations for the submerged structure during the 100-yr floodplain event that provide a 1.25 safety factor.

9. Are electrical permits required?
Response: Yes. Contractor will need to get permit from the County Building Department in Rustburg.

SECTION A

ADMINISTRATIVE CONTRACT

DOCUMENTS

SECTION A-1

INVITATION TO BID

Re: Martin Drive Regional WWPS
Campbell County Utilities and Service Authority (Owner)

1. The Campbell County Utilities and Service Authority will receive sealed bids for the furnishing of all labor, materials and equipment, and the performing of all work for the above referenced project. Contract A is work related to the pump station site. The project includes associated erosion and sediment control measures necessary to construct the project.

All Bids shall be submitted as hard copies to the CCUSA office. Bids will be received until 2:00 p.m. on March 11, 2025 at the Office of the Authority, 20644 Timberlake Road, Lynchburg, Virginia, 24502. In addition, sealed bids can be received electronically through eVA but a hard copy of the bid must be submitted as well. Bids should be submitted as a **PDF** electronically through eVA's procurement portal. This portal allows you access to view business opportunities and submit bids and proposals digitally and securely. Bids can be submitted electronically at: <https://eva.virginia.gov/>. Attachments must be smaller than 10MB in order to be received by eVA. If Working papers are submitted, they should be a separate PDF and labeled clearly. Bids will be publicly opened and read aloud at the following times:

-Contract A: 2:00 pm Tuesday, March 11, 2025

Bids are to be submitted, single copy, on the bid form, in a sealed envelope clearly marked "Bid on Project Martin Drive Regional WWPS"

2. Title 54.1, Chapter 11, Section 54.1-1112, Code of Virginia requires bidders to show evidence of a certificate of registration before a bid may be received and considered. In compliance with this requirement, the bidder shall place on the outside of the envelope containing its bid the following notation: "Registered Virginia Contractor No. _____," the bidder's name, and business address.
3. Bids must be accompanied by a Cashier's Check or acceptable Bid Bond for not less than 5 percent of the bid, made payable to the Campbell County Utilities and Service Authority.
4. Contract Documents may be obtained from the office of Hurt & Proffitt, Inc., 2524 Langhorne Road, Lynchburg, VA 24501 (telephone 434-847-7796) upon non-refundable payment of \$200.00 per set by check or money order. A complete set of documents for the Project may be downloaded free of charge from <http://www.handp.com/>. Include complete street mailing address with zip code, telephone and fax number with area code, and contractor's license number, if applicable. No partial sets will be distributed. The contact person for the project with Hurt & Proffitt is Mike Wilson, PE. Documents may be viewed at the following locations:
 - 1) Campbell County Utilities and Service Authority Office located at 20644 Timberlake Road, Lynchburg, Virginia, 24502
 - 2) Hurt & Proffitt, Inc., Inc., 2524 Langhorne Rd., Lynchburg, VA, 24501.
 - 3) McGraw-Hill Construction/Dodge, 18 Almond Circle, Blue Ridge, VA 24064.
 - 4) Valley Construction News, 356 West Campbell Ave., Roanoke, VA, 24016
5. Should a bidder find it necessary to receive clarifications concerning the Contract Documents, or should the bidder be in doubt as to the meaning thereof, the bidder should at once notify the Engineer. Any interpretation of the Contract Documents shall be made only by addenda. Addenda will be delivered to

bidders prior to bid opening. The Owner will not be responsible for any other explanation of the Contract Documents.

6. All blank spaces on the bid form must be filled in, in ink or typewritten, and must be fully completed.

For unit price contracts, the product of each unit price and the bid quantity shall govern in evaluating bids received. The summary of all total item prices is included in the schedule of prices for the purpose of convenience only in announcing an apparent low bidder at the time of opening and has no meaning otherwise. All bids are subject to review and checking for completeness and accuracy by the Owner or its agents.

7. Bid award shall be made to the lowest responsive and responsible bidder. Whenever such low bid exceeds available funds, the Owner reserves the right to negotiate with the lowest responsive and responsible bidder in order to obtain a contract price within funds available. Negotiations with the lowest bidder may include modifications to the bid price and changes in the scope of work as outlined by the technical specifications and the Drawings.
8. The Owner reserves the right to reject any and all bids and to waive any informality so designated by the Code of Virginia in bids received.
9. The Owner will act on bona fide bids within 60 days after the opening of all bids and a bidder may not withdraw his bid within this period except as indicated below. However, in the event of unintentional arithmetic or similar mistake made directly in the compilation of the bid, the bidder may withdraw its bid in accordance with Title 2.2, Chapter 43, Section 2.2-4330(A) of the Code of Virginia. By the giving of this written notice for the causes cited, the bidder may withdraw its bid within 2 business days after the conclusion of the bid opening procedure.
10. The bidders business practices shall conform to Title 2.2, Chapter 43, Section 2.2-4311, prohibition of employment discrimination and Section 2.2-4312, provision of a drug free work place, as described by the Code of Virginia and further detailed in the Standard Form of Agreement.
11. A mandatory Pre Bid conference will be held at the Office of the Authority at 11:00 am on February 25, 2025.
12. **This project is being funded with Federal and State money made available through the American Rescue Plan Act. Bidder must comply with the following: the President's Executive Order #11246 prohibiting discrimination in employment regarding race, color, creed, sex, or national origin; the President's Executive Orders #12138 and 11625 regarding utilization of MBE/WBE firms; and the Civil Rights Act of 1964. MBE/WBE firms are encouraged to submit bids. Bidders must provide certification that they do not or will not maintain or provide for their employees facilities that are segregated based on race, color, creed, or national origin. Bidders must comply with the President's Executive Order 13658 regarding minimum wages on federal funded construction contracts.**

Campbell County Utilities and Service Authority

BY: Timothy R. Wagner, P.E., Engineering Director

SECTION A-2

INSTRUCTIONS TO BIDDERS

1. It is the declared and acknowledged intent of these standards to provide and secure the construction of the project identified in Invitation to Bid in Campbell County, Virginia, complete, tested, and ready for service. The work includes furnishing all labor, materials and equipment, and performing all work necessary to complete the project as described in the Contract Documents and as shown on the Drawings.
2. Bidders are urged to visit the site of the proposed work and satisfy themselves as to the surface and subsurface conditions in and adjacent to the site, the availability of water, electricity, telephone, sanitary facilities, access roads, storage sites, and related factors.
3. The Owner will act upon bids as indicated in the Invitation to Bid. The acceptance of a proposal shall bind the successful bidder to execute the Agreement when presented to it. All terms and conditions of the Agreement shall be effective upon acknowledgment by the Contractor of receipt of the notice of award.
4. Any Contractor whose proposal shall be accepted will be required to execute the Agreement within 10 business days after Notice of Award. Failure or neglect to do so shall constitute a breach of the Agreement effected by the acceptance of the proposal. The damages to the Owner for such breach will include loss from interference with its construction program and other items whose accurate amount will be difficult or impossible to compute. Therefore, the amount of the Bid Bond or Cashier's Check accompanying the proposal shall become the property of the Owner.

The Owner may make such investigations as it deems necessary to determine the ability of the bidder to perform the work. If requested, the bidder shall furnish, within 5 days of the Owner's request, any information pertinent to the determination of its experience and financial capability to perform this work. Should this evidence not satisfy the Owner that such bidder is properly qualified to carry out the obligations of the Agreement and the work contemplated therein, the bid may be rejected.

5. Bidders must be responsible parties, regularly and practically engaged in the installation of the class of work, and known to possess ample facilities for doing this work.

Title 59.1, Chapter 5, Code of Virginia, requires Contractors operating as a partnership or under an assumed or fictitious name to file a Certificate of Ownership with the State Corporation Commission and to appoint an attorney for service of process.

6. The Contractor shall furnish bonds executed by an acceptable Surety Company duly authorized to do business in the Commonwealth of Virginia or a Letter of Credit by a bank duly licensed to do business in the Commonwealth of Virginia, in an amount at least equal to 100 percent of the contract price, as security both for faithful performance and for payment of all persons performing labor and furnishing materials in connection with this contract.
7. The Contractor shall furnish evidence of insurance coverage as detailed in the Supplementary Conditions.
8. The Contractor shall commence the work within 10 business days of the Notice to Proceed.
9. The Contractor shall employ an individual certified by the Department of Environmental Quality as the Responsible Land Disturber. This person shall be responsible for the proper functioning of the erosion control devices throughout the project.

10. The entire Virginia Work Area Protection Manual of the Virginia Department of Transportation (VDOT), latest edition, and requirements of the VDOT Land Use Permit obtained by the Owner shall be included as part of this Information to Bidders as if attached hereto. Signs, traffic control devices, and other details outlined therein shall be specifically followed when working within or adjacent to the VDOT's right-of-way. Should traffic control signal persons be employed on the work, the Contractor shall assure these persons are properly certified signal persons with their certificates available for inspection at the site.
11. In accordance with Title 2.2, Chapter 43, Section 2.2-4334, of the Code of Virginia, for certain construction contracts valued in excess of \$200,000, for construction of roads, pump stations and water, gas and sewage mains (but not water and or waste treatment plants), the Contractor may have the option to utilize the escrow account procedure for investment of partial payment retainage amounts. Should the Contractor elect this option, the Escrow Agreement form shall be executed and returned to the Owner within 15 calendar days of the Notice of Award. If the form is not furnished within the 15-day period, the Contractor shall forfeit its right to use the escrow account procedure. The Escrow Agreement form contained on the following pages shall be included as part of this information for bidders.
12. During the performance of this contract, the Contractor agrees as follows:
 - A. The Contractor will not discriminate against any employee or application for employment because of race, religion, color, sex or national origin, except where religion, sex, or national origin is a bona fide occupational qualification reasonably necessary to the normal operation of the Contractor. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
 - B. The Contractor, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, will state that such Contractor is an equal opportunity employer.
 - C. Notices, advertisements, and solicitations placed in accordance with federal law, rule, or regulation shall be deemed sufficient for the purpose of meeting the requirements of this Section.
 - D. The Contractor will include the provisions of the foregoing Paragraphs A, B, and C in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.
13. **This project is being funded with Federal and State money made available through the American Rescue Plan Act. Bidder must comply with the following: the President's Executive Order #11246 prohibiting discrimination in employment regarding race, color, creed, sex, or national origin; the President's Executive Orders #12138 and 11625 regarding utilization of MBE/WBE firms; and the Civil Rights Act of 1964. MBE/WBE firms are encouraged to submit bids. Bidders must provide certification that they do not or will not maintain or provide for their employees facilities that are segregated based on race, color, creed, or national origin. Bidders must comply with the President's Executive Order 13658 regarding minimum wages on federal funded construction contracts.**

SECTION A-3

BID FORM

Campbell County Utilities and Service Authority (Owner)
20644 Timberlake Road
Lynchburg, Virginia 24502
Attn: Authority Administrator

Gentlemen:

The undersigned, having visited and examined the site and having carefully studied the Contract Documents for Martin Drive Regional WWPS hereby proposes to furnish all labor, equipment, materials, and services and to perform all operations necessary to execute and complete the work required for the project, in strict accordance with the Contract Documents prepared by the Engineer, dated February 5, 2025 together with addenda numbered _____, issued during bidding period and hereby acknowledged, subject to the terms and conditions of the Agreement for the sum of

Contract A Base Bid, Lump Sum of

_____ Dollars (\$ _____).

Contract A Add Alternate Item #1 (Line Items 43 & 44), Lump Sum of

_____ Dollars (\$ _____).

Total Contract A Base Bid + Add Alternate Item #1

_____ Dollars (\$ _____).

The Base Bid and any Add Alternates are founded upon furnishing equipment and materials of specified manufacturers.

It is understood and agreed that the Owner, in protecting his best interest, reserves the right to reject any or all bids, or accept any bid at the Base Bid price, whereupon the Contractor shall furnish equipment and materials as specified.

The Base Bid and any add alternates of the Base Bid plus additive alternate price shall include the quantities on the attached Bid Schedule. The bidder declares that he understands that the quantities shown in the Bid Schedule are approximate only; and are subject to either increase or decrease based on the work shown on the Drawings and for changes in the work as directed by the Owner and that should the quantities of any of the items of work be increased, the undersigned proposes to do the additional work at the unit price set out herein, and should the quantities be decreased, he also understands that payment will be made on the actual quantities installed at the unit prices, and will make no claim for the anticipated profits for any decrease in the quantities. Actual quantities will be determined upon completion of the work. Lump sum bid items will not be adjusted.

We are properly equipped to execute work of the character and extent indicated by the Contract Documents and so covered by this bid and will enter into Agreement for the execution and completion of the work in accordance with

the Drawings, project manual, and this bid; and we further agree that if awarded the contract, we will commence the work on the date stated in "Notice to Proceed" and the work be substantially complete within 330 calendar days.

The Owner and Contractor recognize that time is of the essence with this Agreement and that the Owner will suffer financial loss if the work is not completed within the number of calendar days listed above for all work associated with the Martin Drive Regional WWPS. They also recognize the delays, expense, and difficulties involved in proving the actual loss suffered by the Owner if the work is not completed on time. Accordingly, instead of requiring any such proof, the Owner and Contractor agree that, as liquidated damages for delay (but not as a penalty), the Contractor shall pay the Owner (\$500.00) for each day that expires after the time specified for substantial completion of the project.

Bid Schedule:

Contract A Schedules of Values:

| Sanitary Sewer | | | | | |
|-----------------------|--|-----------------|-------------|-------------------|--------------|
| Item # | Description | Quantity | Unit | Unit Price | Total |
| 1 | 10" Gravity Sewer Line | 80 | LF | | |
| 2 | 10" C900 Force main | 65 | LF | | |
| 3 | 6" Forcemain - Protecto 401 lined DIP | 15 | LF | | |
| 4 | Sanitary Manhole w/ Watertight Frame & Cover | 1 | EA | | |
| 5 | 10" Plug Valve & Box | 1 | EA | | |
| 6 | 6" 90° Bend – Protecto 401 Lined | 1 | EA | | |
| 7 | 6" Plug Valve & Box | 2 | EA | | |
| 8 | 2" Air/Vacuum Release Valve | 1 | EA | | |
| 9 | 10" 45° Bend – Protecto 401 Lined | 2 | EA | | |
| 10 | 10" 22.5° Bend – Protecto 401 Lined | 1 | EA | | |
| 11 | 10" 11.25° Bend – Protecto 401 Lined | 1 | EA | | |
| Site Work | | | | | |
| 12 | Site Grading | 1 | LS | | |
| 13 | Transformer Pad (6" of #57 Stone) | 200 | SY | | |
| 14 | Wetwell Pad & Access Road (8" of #3 Stone) | 480 | SY | | |
| 15 | Chain Link Fencing | 220 | LF | | |
| 16 | 20' Two Piece Swinging Gate | 1 | EA | | |
| 17 | 3' Swinging Gate | 1 | EA | | |
| 18 | Utility Pole | 1 | EA | | |
| 19 | Dusk to Dawn Light | 1 | EA | | |
| 20 | Well Pump | 1 | LS | | |
| 21 | 1" Water Service w/ Meter | 1 | LS | | |
| 22 | 1" Backflow Prevention Device | 1 | EA | | |
| 23 | Above Ground Insulated Enclosure | 1 | EA | | |
| 24 | Frost Free Yard Hydrant | 1 | EA | | |
| 25 | 12" HDPE Storm Culvert | 50 | LF | | |
| 26 | Class 1 Riprap (2' Thick) | 9 | CY | | |
| 27 | Segmental Block Retaining Wall | 120 | LF | | |
| Pump Station | | | | | |
| 28 | Duplex Pump Station & Wet-Well | 1 | LS | | |
| 29 | Pump Station Valve Vault | 1 | LS | | |

| | | | | | |
|--|---|-----|----|--|--|
| 30 | Pump Station Bypass Connection | 1 | LS | | |
| 31 | Pump Station Controls | 1 | LS | | |
| 32 | Emergency Generator | 1 | EA | | |
| 33 | Transfer Switch | 1 | LS | | |
| 34 | SCADA System | 1 | LS | | |
| 35 | Portable Hoist | 1 | EA | | |
| Other | | | | | |
| 36 | Silt Fence | 250 | LF | | |
| 37 | Tree Removal | 1 | LS | | |
| 38 | Seeding & Fine Grading | 1 | LS | | |
| 39 | Construction Stakeout | 1 | LS | | |
| 40 | Rock Excavating | 180 | CY | | |
| 41 | Mobilization/Demobilization (Max 5% of Bid) | 1 | LS | | |
| Control Panel Housing | | | | | |
| 42 | Lighted Control Panel Shelter | 1 | LS | | |
| Add Alternate #1: Control Panel Housing Additional Cost | | | | | |
| 43 | Lighted Control Building | 1 | LS | | |
| 44 | Thru-Wall Packaged Heat Pump | 1 | LS | | |

Enclosed herewith is the following security, offered as evidence that the undersigned will enter into Agreement for the execution and completion of the work in accordance with the Contract Documents:

Cashier's Check for the Sum of _____

Name of Bank _____

Bidder's Bond in Amount of _____

Bond Issued by _____

The undersigned further agrees that in case of failure on his part to execute the said Agreement within the 10 days after written notice being given on the award of the contract, the monies payable by the securities accompanying this bid shall be paid to the Owner as liquidated damages for such failure; otherwise, the securities accompanying this bid shall be returned to the undersigned.

This bid is subject to acceptance within a period of 60 days from this date.

Respectfully Submitted,

Contractor

By _____

Address

Telephone Number

Date _____

Contractor's Current Virginia
License Number _____ Code _____

If determined to be the successful low bidder(s), the above-signed elects to use the escrow account procedure, a copy of which is attached to this bid proposal package.

Write "Yes" or "No" on
Above Line.

In the event the successful bidder elects to use the escrow account procedure, the "Escrow Agreement" form shall be executed and submitted to the Owner within 15 days after notification. If the "Escrow Agreement" form is not submitted within the fifteen-day period, the Contractor shall forfeit his rights to the use of the escrow account procedure.

EQUAL OPPORTUNITY REPORT STATEMENT

The bidder shall complete the following statement by checking the appropriate blank as follows.

The bidder has _____ has not _____ participated in a previous contract subject to the non-discrimination clause prescribed by Executive Order 10925, dated March 6, 1961, or Executive Order 11114 dated June 22, 1963, and Executive Order 11246 dated September 24, 1965.

In conjunction with the goals established for this project for minority and women business enterprises, the bidder has solicited quotations for labor, material, and/or services from the following:

| <u>Name of Firm</u> | <u>Person(s) Contacted</u> | <u>Date</u> |
|---------------------|----------------------------|-------------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Of those listed above, we intend, at this time, to utilize the following in the completion of the work required by this contract:

“This firm assures that it will give its best efforts to utilize disadvantaged business enterprises wherever possible.”

Certified by: _____ (Signature)
_____ (Typed/Printed Name & Title)

Bidder's Name: _____

IRS Number: _____

ANTI-COLLUSION STATEMENT

In the preparation and submission of this proposal on behalf of, we did not either directly or indirectly enter into any combination or arrangement with any person, firm or corporation, or enter into any agreement, participate in any collusion, or otherwise take any action in the restraint of free competition in violation of the Sherman Anti-Trust Act, 15 USC Sections 1 et seq; the Virginia Antitrust Act, Virginia Code Sections 59.1-9.1 through 59.19.18, and the Conspiracy to Rig Bids to Government Statutes, Virginia Code Sections 59.1-68.6 through 59.1-68.8.

The undersigned Contractor hereby certifies that this agreement, or any claims resulting there from, is not the result of, or affected by, any act of collusion with, or any act of, another person or persons, firm or corporation engaged in the same line of business or commerce; and that no person acting for, or employed by, the Campbell County Utilities and Service Authority has an interest in, or is concerned with, this proposal; and, that no person or persons, firm or corporation, other than the undersigned, have or are interested in this proposal.

Certified by: _____ (Corporate Seal)

Acknowledged before me this _____ day of _____, _____

Notary Public

SECTION A-4

ESCROW AGREEMENT

This Escrow Agreement, made and entered into this _____ day of _____, 20____, by between and among the Campbell County Utilities and Service Authority, the Contractor, _____, the Bank, trust company or savings institution named herein _____ with its principal office located in the Commonwealth of Virginia, at _____, and the Surety, _____, with its home office located at _____ provides that:

ARTICLE I. The Owner and the Contractor have entered into a contract Agreement for construction of a project entitled _____.

This Escrow Agreement is pursuant to, but in no way amends or modifies, the contract Agreement. Payments made hereunder or the release of funds from escrow shall not be deemed approval of or acceptance of the performance of the Contractor.

ARTICLE II. In order to assure full and satisfactory performance by the Contractor of its obligations under the contract Agreement, the Owner is required thereby to retain certain amounts otherwise due the Contractor. The Contractor has, with the approval of the Owner, elected to have these retained amounts held in escrow by the Bank. This Escrow Agreement sets forth the terms of such escrow. The Bank shall not be deemed a party to, bound by or required to inquire into the terms of, the contract Agreement or any other instrument or Agreement between the Owner and the Contractor.

ARTICLE III. The Owner shall from time-to-time pursuant to its contract Agreement pay to the Bank amounts retained by it under the contract Agreement. Except as to amount actually withdrawn from escrow by the Owner for just cause, the Contractor shall look solely to the Bank for the payment of funds retained under the contract Agreement and paid by the Owner to the Bank.

The risk of loss by diminution of the principal of any fund invested under the terms of this Escrow Agreement shall be solely upon the Contractor.

Funds and securities held by the Bank pursuant to this Escrow Agreement shall not be subject to levy, garnishment, attachment, lien, or other process whatsoever. Contractor agrees not to assign, pledge, discount, sell or otherwise transfer or dispose of his interest in the escrow account or any part thereof, except to the Surety.

ARTICLE IV. Upon receipt of checks or warrants drawn by the Owner and made payable to it as escrow agent, the Bank shall promptly notify the Contractor, negotiate the same and deposit or invest and reinvest the proceeds in approved securities in accordance with the written instructions of the Contractor. In no event shall the Bank invest the escrowed fund in any security not approved.

ARTICLE V. The following securities, and no other, are approved securities for all purposes for this Escrow Agreement.

1. United States Treasury Bonds, United States Treasury Notes, United States Treasury Certificates of Indebtedness or United States Treasury Bills.

2. Bonds, notes, and other evidences of indebtedness unconditionally guaranteed as the payment of principal and interest by the United States.
3. Bonds or notes of the Commonwealth of Virginia.
4. Bonds of any political subdivisions of the Commonwealth of Virginia, if such bonds carried, at the time of purchase by the Bank or deposit by the Contractor, a Standard and Poor's or Moody's Investors Service rating of at least "A".
5. Certificates of deposit issued by commercial Banks located within the Commonwealth, including, but not limited to, those insured by the Bank and its affiliates.
6. Any bonds, notes or other evidences of indebtedness listed in 1. through 3. Herein may be purchased pursuant to a repurchase Agreement with a Bank, within or without the Commonwealth of Virginia having a combined capital, surplus, and undivided profit of not less than \$25,000,000.00, provided the obligation of the Bank to repurchase is within the time limitations established for investment as set forth herein. The repurchase Agreement shall be considered a purchase of such securities even if Title, and/or possession of such securities is not transferred to the Escrow Agent, so long as the repurchase obligation of the Bank is collateralized by the securities themselves, and the securities have on the date of the repurchase Agreement a fair market value equal to at least 100 percent of the amount of the repurchase obligation of the Bank, and the securities are held by a third party, and segregated from other securities owned by the Bank.

No security is approved hereunder which matures more than 5 years after the date of its purchase by the Bank or deposit by the Contractor.

ARTICLE VI. Upon receipt of a direction signed by the Owner, the Bank shall pay the principal of the fund, or any specified amount thereof, to the Owner in the event that Contractor has not progressed the work in accordance with the contract Agreement. Such payment shall be made in cash as soon as is practical after receipt of the direction.

Upon receipt of a direction signed by the Owner, the Bank shall pay and deliver the principal of the fund, or any specified amount thereof, to the Contractor, in cash or in kind, as may be specified by the Contractor. Such payment and delivery shall be made as soon as is practical after receipt of the direction.

ARTICLE VII. For its services hereunder the Bank shall be entitled to a reasonable fee in accordance with its published schedule of fees or as may be agreed upon by the Bank and the Contractor. Such fee and any other cost of administration of this Escrow Agreement shall be paid from the income earned upon the escrowed fund and, if such income is not sufficient to pay the same, by the Contractor.

ARTICLE VIII. The net income earned and received upon the principal of the escrowed fund shall be paid over to the Contractor in quarterly installments. Until so paid or applied to pay the Bank's fee or any other costs of administration, such income shall be deemed a part of the principal of the fund.

ARTICLE IX. The Surety undertakes no obligation hereby but joins in this Escrow Agreement for the sole purpose of acknowledging that its obligations as Surety for the Contractor's performance of the contract are not affected hereby.

Witness the following signatures, all as of the day and year first above written.

Owner Campbell County Utilities and Service Authority

By _____

Title _____

Contractor _____

By _____

Title _____

Attest:

Bank _____

By _____

Title _____

Bank Officer

Attest:

Surety _____

By _____

Title _____

Surety Company

By _____
Resident Virginia Agent

Address

7. The Contractor shall require his insurance agent to certify on the Insurance Certificate that the insurance coverage specified by these Supplementary Conditions is fully in effect, both in scope and amount. If insurance coverage is affected with more than one company, the individual Certificates shall identify the items of insurance which the individual companies cover. The Insurance Certificate shall contain a provision that coverages afforded under the policies will not be canceled or materially changed unless at least 30 days prior written notice has been given to the Owner and the Engineer.
8. All insurance shall be written by insurance companies licensed to do business in the Commonwealth of Virginia.
9. All Certificates of Insurance, except Worker's Compensation, shall name the Campbell County Utilities and Service Authority and the Engineer and the officers and employees of both as Additional Insured.

6.01 Contractor's Responsibilities.

1. Services, Materials and Equipment. Add the following to Paragraph 7.03:

"All material incorporated in the work of this Contract shall be free of asbestos and other hazardous materials."

2. Laws and Regulations. Add the following to Subparagraph 7.10.A:

- (1) Contractor shall be licensed in the Commonwealth of Virginia in accordance with Title 54.1, Chapter 11, Section 54.1-1112, Code of Virginia, as amended.

3. Permits. The Contractor shall obtain and pay for all permits for this project required by Campbell County and the Virginia Department of Environmental Quality. The Owner will obtain and pay for, unless indicated elsewhere, the VDOT Land Use Permit, Railroad Permits, Army Corps of Engineer Permits, Virginia Marine Resources Commission Permit, and Virginia Department of Health Permit, as required for this Project.

4. OSHA Requirements. The Contractor shall be responsible for all safety at the job site and shall comply with OSHA regulations for all work associated with this project.

7.01 Project Representation.

1. Add the following to Article 10, Paragraph 10.03:

10.03 B. The Owner will furnish a Resident Project Representative (RPR), assistants, and other field staff to observe performance of the work of the Contractor. Through more extensive on-site observations of the work in progress and field checks of materials and equipment by the RPR and assistants, the Owner shall endeavor to provide further protection against defects and deficiencies in the work; but, the furnishing of such services will not make the Owner responsible for or give the Owner control over construction means, methods, techniques, sequences or procedures or for safety precautions or programs, or responsibility for Contractor's failure to perform the work in accordance with the Contract Documents. The duties and responsibilities of the RPR are limited to those in the Agreement with the Owner and in the Construction Contract Documents, and are further limited and described as follows:

General: RPR is the Owner's agent at the site, will act as directed by and under the supervision of the Owner and the Engineer, and will confer with the Owner and the Engineer. RPR's dealings in matters pertaining to the on-site work shall in general be with the Owner, the Engineer, and Contractor keeping Owner advised as necessary. RPR's dealings with subcontractors shall only be through or with the full knowledge and approval of Contractor.

8.01 Add the following as Article 11.05.C:

11.05.C Time extensions for abnormal weather:

- (1) This provision specifies the procedure for the determination of time extensions for abnormal weather in accordance with the Contract General Condition 12.03.

This listing below defines the monthly-anticipated working days of adverse weather for each month and is based upon NOAA climatological data for Campbell County, Virginia.

| Jan | Feb | Mar | Apr | May | June | Jul | Aug | Sep | Oct | Nov | Dec |
|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| 8 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 6 | 6 | 6 | 7 |

- (2) The anticipated days provided above will constitute the baseline for monthly weather time evaluations. Throughout the contract, actual weather working days are to be recorded and compared to the monthly-anticipated working days.
- (3) Once the number of actual adverse weather working days exceeds the anticipated working days, any subsequent days may be used as a basis to determine whether a Contractor is entitled to a time extension. The adverse weather must have prevented work for 50 percent or more of the Contractor's workday and delayed work critical to the timely completion of the Project.
- (4) The Contractor's schedule must indicate the critical (path) work and must reflect the above anticipated adverse weather days on all weather dependent activities.
- (5) At the end of each quarter of the calendar year, the anticipated days scheduled will be balanced with the actual adverse weather days.

9.01 Replace Paragraph 15.01.D with the following:

15.01.D "The Owner will make partial payments to the Contractor within 30 days of billing by check via first class mail through the U. S. Postal Service for a duly certified and approved estimate of work performed during the preceding calendar month (subject to the provisions of Paragraph 14.02.D) and the Agreement. The Contractor shall take one of the two following actions within 7 days after receipt of payment from the Owner with regards to work performed by a subcontractor and/or supplier under their contract:

- 1. Pay the subcontractor and/or supplier for the proportionate share of the total payment received from the Owner attributable to the work performed by the subcontractor and/or supplier under that Contract; or
- 2. Notify the Owner and subcontractor and/or supplier, in writing, of his intention to withhold all or part of the subcontractor's and/or supplier's payment with the reason for nonpayment.

The Contractor will pay interest to the subcontractor and/or supplier on all amounts owed by the Contractor that remain unpaid after 7 days following receipt by the Contractor of payment from the Owner for work performed by the subcontractor and/or supplier under this contract, except for amounts withheld as allowed above. Interest shall accrue at the rate of 1 percent per month.

The Contractor shall include in each of its subcontracts a provision requiring each subcontractor and/or supplier to include or otherwise be subject to the same payment and interest requirements with respect to each lower-tier subcontractor and/or supplier. A Contractor's obligation to pay an interest charge to a subcontractor and/or supplier pursuant to the payment clause in this section may not be construed to be an obligation of the Owner's. A Contract modification may not be made for the purpose of providing reimbursement for such interest charge. A cost reimbursement claim may not include any amount for reimbursement for such interest charge.

10.01 Delete Article 17 Dispute Resolution and replace with the following:

This Agreement and all questions arising herewith shall be governed by and construed in accordance with the Laws of the Commonwealth of Virginia. The parties agree that the sole and exclusive jurisdiction for all disputes arising under this agreement shall be in the state and federal courts closest to Campbell County, Virginia.

End of Supplementary Conditions

**AGREEMENT
BETWEEN OWNER AND CONTRACTOR
FOR CONSTRUCTION CONTRACT (STIPULATED PRICE)**

THIS AGREEMENT is by and between The Campbell County Utilities and Service Authority (“Owner”) and _____ (“Contractor”).

Owner and Contractor hereby agree as follows:

ARTICLE 1 – WORK

1.01 Contractor shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows:

ARTICLE 2 – THE PROJECT

2.01 The Project, of which the Work under the Contract Documents is a part, is generally described as follows: Contract A is work related to the pump station site. The project includes associated erosion and sediment control measures necessary to construct the project.

ARTICLE 3 – ENGINEER

3.01 The Project has been designed by Hurt & Proffitt.

3.02 The Owner has retained Hurt & Proffitt. (“Engineer”) to act as Owner’s representative, assume all duties and responsibilities, and have the rights and authority assigned to Engineer in the Contract Documents in connection with the completion of the Work in accordance with the Contract Documents.

ARTICLE 4 – CONTRACT TIMES

4.01 *Time of the Essence*

A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

4.02 *Contract Times: Days*

A. The Work will be substantially completed within 330 days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions, and completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within 365 days after the date when the Contract Times commence to run.

4.03 *Liquidated Damages*

A. Contractor and Owner recognize that time is of the essence as stated in Paragraph 4.01 above and that Owner will suffer financial and other losses if the Work is not completed and Milestones not achieved within the times specified in Paragraph 4.02 above, plus any extensions thereof allowed in accordance with the Contract. The parties also recognize the delays, expense, and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of

requiring any such proof, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty):

1. Substantial Completion: Contractor shall pay Owner \$500.00 for each day that expires after the time (as duly adjusted pursuant to the Contract) specified in Paragraph 4.02.A above for Substantial Completion until the Work is substantially complete.
2. Completion of Remaining Work: After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Time (as duly adjusted pursuant to the Contract) for completion and readiness for final payment, Contractor shall pay Owner \$500.00 for each day that expires after such time until the Work is completed and ready for final payment.
3. Liquidated damages for failing to timely attain Substantial Completion and final completion are not additive and will not be imposed concurrently.

ARTICLE 5 – CONTRACT PRICE

5.01 Owner shall pay Contractor for completion of the Work in accordance with the Contract Documents the amounts that follow, subject to adjustment under the Contract:

- A. For all Unit Price Work, an amount equal to the sum of the extended prices (established for each separately identified item of Unit Price Work by multiplying the unit price times the actual quantity of that item):
- B.

Contract A Schedule of Values:

| Sanitary Sewer | | | | | |
|----------------|--|----------|------|------------|-------|
| Item # | Description | Quantity | Unit | Unit Price | Total |
| 1 | 10” Gravity Sewer Line | 80 | LF | | |
| 2 | 10" C900 Force main | 65 | LF | | |
| 3 | 6” Forcemain - Protecto 401 lined DIP | 15 | LF | | |
| 4 | Sanitary Manhole w/ Watertight Frame & Cover | 1 | EA | | |
| 5 | 10” Plug Valve & Box | 1 | EA | | |
| 6 | 6" 90° Bend – Protecto 401 Lined | 1 | EA | | |
| 7 | 6" Plug Valve & Box | 2 | EA | | |
| 8 | 2" Air/Vacuum Release Valve | 1 | EA | | |
| 9 | 10" 45° Bend – Protecto 401 Lined | 2 | EA | | |
| 10 | 10" 22.5° Bend – Protecto 401 Lined | 1 | EA | | |
| 11 | 10" 11.25° Bend – Protecto 401 Lined | 1 | EA | | |

| Site Work | | | | | |
|---------------------|--|-----|----|--|--|
| 12 | Site Grading | 1 | LS | | |
| 13 | Transformer Pad (6" of #57 Stone) | 200 | SY | | |
| 14 | Wetwell Pad & Access Road (8" of #3 Stone) | 480 | SY | | |
| 15 | Chain Link Fencing | 220 | LF | | |
| 16 | 20' Two Piece Swinging Gate | 1 | EA | | |
| 17 | 3' Swinging Gate | 1 | EA | | |
| 18 | Utility Pole | 1 | EA | | |
| 19 | Dusk to Dawn Light | 1 | EA | | |
| 20 | Well Pump | 1 | LS | | |
| 21 | 1" Water Service w/ Meter | 1 | LS | | |
| 22 | 1" Backflow Prevention Device | 1 | EA | | |
| 23 | Above Ground Insulated Enclosure | 1 | EA | | |
| 24 | Frost Free Yard Hydrant | 1 | EA | | |
| 25 | 12" HDPE Storm Culvert | 50 | LF | | |
| 26 | Class 1 Riprap (2' Thick) | 9 | CY | | |
| 27 | Segmental Block Retaining Wall | 120 | LF | | |
| Pump Station | | | | | |
| 28 | Duplex Pump Station & Wet-Well | 1 | LS | | |
| 29 | Pump Station Valve Vault | 1 | LS | | |
| 30 | Pump Station Bypass Connection | 1 | LS | | |
| 31 | Pump Station Controls | 1 | LS | | |
| 32 | Emergency Generator | 1 | EA | | |
| 33 | Transfer Switch | 1 | LS | | |
| 34 | SCADA System | 1 | LS | | |
| 35 | Portable Hoist | 1 | EA | | |
| Other | | | | | |
| 36 | Silt Fence | 250 | LF | | |

| | | | | | |
|--|---|-----|----|--|--|
| 37 | Tree Removal | 1 | LS | | |
| 38 | Seeding & Fine Grading | 1 | LS | | |
| 39 | Construction Stakeout | 1 | LS | | |
| 40 | Rock Excavating | 180 | CY | | |
| 41 | Mobilization/Demobilization (Max 5% of Bid) | 1 | LS | | |
| Control Panel Housing | | | | | |
| 42 | Lighted Control Panel Shelter | 1 | LS | | |
| Add Alternate #1: Control Panel Housing Additional Cost | | | | | |
| 43 | Lighted Control Building | 1 | LS | | |
| 44 | Thru-Wall Packaged Heat Pump | 1 | LS | | |

The extended prices for Unit Price Work set forth as of the Effective Date of the Contract are based on estimated quantities. As provided in Paragraph 13.03 of the General Conditions, estimated quantities are not guaranteed, and determinations of actual quantities and classifications are to be made by Engineer.

C. Total of Lump Sum Amount and Unit Price Work (subject to final Unit Price adjustment)

Contract A Base Bid, Lump Sum of

_____ Dollars (\$_____).

Contract A Add Alternate Item #1(Line Items 43 & 44), Lump Sum of

_____ Dollars (\$_____).

Contract A Total Base Bid + Add Alternate Item #1

_____ Dollars (\$_____).

D. For all Work, at the prices stated in Contractor's Bid, attached hereto as an exhibit.

ARTICLE 6 – PAYMENT PROCEDURES

6.01 *Submittal and Processing of Payments*

A. Contractor shall submit Applications for Payment in accordance with Article 15 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.

6.02 *Progress Payments; Retainage*

- A. Owner shall make progress payments on account of the Contract Price on the basis of Contractor's Applications for Payment on or about the 15th day of each month during performance of the Work as provided in Paragraph 6.02.A.1 below, provided that such Applications for Payment have been submitted in a timely manner and otherwise meet the requirements of the Contract. All such payments will be measured by the Schedule of Values established as provided in the General Conditions (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no Schedule of Values, as provided elsewhere in the Contract.
1. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts as Owner may withhold, including but not limited to liquidated damages, in accordance with the Contract
 - a. 95 percent of Work completed (with the balance being retainage). If the Work has been 50 percent completed as determined by Engineer, and if the character and progress of the Work have been satisfactory to Owner and Engineer, then as long as the character and progress of the Work remain satisfactory to Owner and Engineer, there will be no additional retainage; and
 - b. 5 percent of cost of materials and equipment not incorporated in the Work (with the balance being retainage).
- B. Upon Substantial Completion, Owner shall pay an amount sufficient to increase total payments to Contractor to 95 percent of the Work completed, less such amounts set off by Owner pursuant to Paragraph 15.01.E of the General Conditions, and less 5 percent of Engineer's estimate of the value of Work to be completed or corrected as shown on the punch list of items to be completed or corrected prior to final payment.

6.03 *Final Payment*

- A. Upon final completion and acceptance of the Work in accordance with Paragraph 15.06 of the General Conditions, Owner shall pay the remainder of the Contract Price as recommended by Engineer as provided in said Paragraph 15.06.

ARTICLE 7 – INTEREST

- 7.01 All amounts not paid when due shall bear interest at the rate of 1 percent per annum.

ARTICLE 8 – CONTRACTOR'S REPRESENTATIONS

- 8.01 In order to induce Owner to enter into this Contract, Contractor makes the following representations:
- A. Contractor has examined and carefully studied the Contract Documents, and any data and reference items identified in the Contract Documents.
 - B. Contractor has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 - C. Contractor is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

- D. Contractor has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.
- E. Contractor has considered the information known to Contractor itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Contract Documents; and the Site-related reports and drawings identified in the Contract Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor; and (3) Contractor's safety precautions and programs.
- F. Based on the information and observations referred to in the preceding paragraph, Contractor agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
- G. Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.
- H. Contractor has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
- I. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
- J. Contractor's entry into this Contract constitutes an incontrovertible representation by Contractor that without exception all prices in the Agreement are premised upon performing and furnishing the Work required by the Contract Documents.

ARTICLE 9 – CONTRACT DOCUMENTS

9.01 *Contents*

- A. The Contract Documents consist of the following:
 - 1. This Agreement (pages 1 to [REDACTED], inclusive).
 - 2. Performance bond (pages [REDACTED] to [REDACTED], inclusive).
 - 3. Payment bond (pages [REDACTED] to [REDACTED], inclusive).
 - 4. Other bonds.
 - a. [REDACTED] (pages [REDACTED] to [REDACTED], inclusive).
 - 5. General Conditions (pages [REDACTED] to [REDACTED], inclusive).
 - 6. Supplementary Conditions (pages [REDACTED] to [REDACTED], inclusive).
 - 7. Specifications as listed in the table of contents of the Project Manual.

8. Drawings (not attached but incorporated by reference) consisting of [] sheets with each sheet bearing the following general title: [] [or] the Drawings listed on the attached sheet index.
 9. Addenda (numbers [] to [], inclusive).
 10. Exhibits to this Agreement (enumerated as follows):
 - a. Contractor's Bid (pages [] to [], inclusive).
 11. The following which may be delivered or issued on or after the Effective Date of the Contract and are not attached hereto:
 - a. Notice to Proceed.
 - b. Work Change Directives.
 - c. Change Orders.
 - d. Field Orders.
- B. The documents listed in Paragraph 9.01.A are attached to this Agreement (except as expressly noted otherwise above).
- C. There are no Contract Documents other than those listed above in this Article 9.
- D. The Contract Documents may only be amended, modified, or supplemented as provided in the General Conditions.

ARTICLE 10 – MISCELLANEOUS

10.01 Terms

- A. Terms used in this Agreement will have the meanings stated in the General Conditions and the Supplementary Conditions.

10.02 Assignment of Contract

- A. Unless expressly agreed to elsewhere in the Contract, no assignment by a party hereto of any rights under or interests in the Contract will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, money that may become due and money that is due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

10.03 Successors and Assigns

- A. Owner and Contractor each binds itself, its successors, assigns, and legal representatives to the other party hereto, its successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

10.04 Severability

- A. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Owner and Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid

and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

10.05 *Contractor's Certifications*

- A. Contractor certifies that it has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the Contract. For the purposes of this Paragraph 10.05:
1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process or in the Contract execution;
 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process or the execution of the Contract to the detriment of Owner, (b) to establish Bid or Contract prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish Bid prices at artificial, non-competitive levels; and
 4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

10.06 *Other Provisions*

- A. Owner stipulates that if the General Conditions that are made a part of this Contract are based on EJCDC® C-700, Standard General Conditions for the Construction Contract, published by the Engineers Joint Contract Documents Committee®, and if Owner is the party that has furnished said General Conditions, then Owner has plainly shown all modifications to the standard wording of such published document to the Contractor, through a process such as highlighting or "track changes" (redline/strikeout), or in the Supplementary Conditions.

IN WITNESS WHEREOF, Owner and Contractor have signed this Agreement.

This Agreement will be effective on _____ (which is the Effective Date of the Contract).

OWNER:

CONTRACTOR:

By: _____

By: _____

Title: _____

Title: _____

(If Contractor is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest: _____

Attest: _____

Title: _____

Title: _____

Address for giving notices:

Address for giving notices:

License No.: _____

(where applicable)

(If Owner is a corporation, attach evidence of authority to sign. If Owner is a public body, attach evidence of authority to sign and resolution or other documents authorizing execution of this Agreement.)

NOTE TO USER: Use in those states or other jurisdictions where applicable or required.

NOTICE TO PROCEED

Owner: Campbell County Utilities and Service Authority Owner's Contract No.: 80-2304
Contractor: _____ Contractor's Project No.: _____
Engineer: Hurt & Proffitt Engineer's Project No.: 20230622
Project: Martin Drive Regional WWPS Contract Name: Contract A
Effective Date of Contract: _____

TO CONTRACTOR:

Owner hereby notifies Contractor that the Contract Times under the above Contract will commence to run on [_____, 2025]. [see Paragraph 4.01 of the General Conditions]

On that date, Contractor shall start performing its obligations under the Contract Documents. No Work shall be done at the Site prior to such date. In accordance with the Agreement, [the date of Substantial Completion is _____, and the date of readiness for final payment is _____] **or** [the number of days to achieve Substantial Completion is _____, and the number of days to achieve readiness for final payment is _____].

Before starting any Work at the Site, Contractor must comply with the following:

Owner: Campbell County Utilities and Service Authority

Authorized Signature

By:

Title:

Date Issued:

Copy: Engineer

SECTION 333200 – WASTEWATER PUMPING STATION

PART 1 GENERAL

1.1 DESCRIPTION

1. Work Included: Furnish all labor, materials, tools, equipment, and appurtenances as specified herein and where shown on the plans and as needed for a complete operational wastewater pump station(s).

1.2 REFERENCES

1. General: The work shall comply with the most recent standards or tentative standards as published at the date of the contract and as listed in this specification using the abbreviation shown.
2. American Society for Testing and Materials (ASTM):
 - 1) A48 Standard Specification for Gray Iron Castings
 - 2) A536 Standard Specification for Ductile Iron Castings
3. American National Standards Institute (ANSI)/National Fire Protection Association (NFPA):
 - 1) 70 National Electrical Code

1.3 GENERAL REQUIREMENTS

1. Pumps: All pumps shall be supplied by a single manufacturer.
2. Alternative Equipment: If the use of alternative equipment requires the redesign of any aspect of the facilities as shown on the design plans, the expense and time allotted for any redesign shall be specifically listed as an attachment to the Bid and shall be included in the bid price for the item.

1.4 SUBMITTALS

1. General: Shall be in accordance with Section “General Requirements”.

1.5 QUALITY ASSURANCE

1. Start Up Service: Include the services of the equipment manufacturer's field service technician for a minimum period of 2 trips and 2 days.
2. Factory Tests: Pumps shall be tested by the manufacturer or a nationally recognized testing agency in compliance with Hydraulic Institute Standards. Where two or more identical pumps are specified, only one representative pump shall be tested. Certified test results shall be submitted to the ENGINEER.
3. Pump Characteristics Curves: Pump characteristic curves showing capacity in gpm, head, efficiency and pumping horsepower should be submitted with the shop plans and contained in the O & M Manual.
4. Warranty: The pump manufacturer shall warrant the pumps to be supplied to the OWNER for a period of five years under normal use.

1.6 DELIVERY, STORAGE, AND HANDLING

1. General: Shall be in accordance with Section “General Requirements”.

PART 2 PRODUCTS

2.1 SUBMERSIBLE PUMP STATION EQUIPMENT

1. General: Provide and install two submersible raw wastewater pumps as indicated on the plans. Provide one spare pump to owner. Pumps shall be slide rail mounted to allow pump maintenance without entry into the wetwell. All opening and passages shall be large enough to permit the passage of a sphere 3 inches in diameter and any trash or stringy material which can pass through a 4 inch house lateral. Pumps shall have a minimum efficiency of 40 percent. Pumps shall be Pentair Hydromatic S4T or approved equal.

2. Pump Characteristics:

| | |
|--------------------------|------------------------|
| Model | Hydromatic S4T |
| Design Point | 675 gpm @ 224 Feet TDH |
| Impeller | 14.25” |
| Minimum Motor Horsepower | 125 HP |

3. Pump Construction: Major pump components shall be of ASTM A48, Class 30, gray cast iron with smooth surfaces devoid of blow holes porosity, hard spots, shrinkage cracks, and other irregularities. All exposed nuts, bolts, washers, and other hardware shall be of 316 stainless steel. All surfaces coming into contact with sewage, other than stainless steel, shall be protected by an approved sewage resistant coating. The volute shall have smooth passages which provide unobstructed flow through the pump shall be fitted with ANSI 125 pound flanges, and tested to Hydraulic Institute Standards at 150 percent of shutoff head. Mating surfaces where a watertight seal is required shall be machined and fitted with nitrile or Buna-N rubber O-rings. Fitting shall be such that sealing is accomplished by metal-to-metal contact between mating surfaces, resulting in proper compression of the O-rings without the requirement of specific torque limits.
4. Non-clog Impeller: Non-clog impeller shall be of ASTM A48 gray cast iron or ASTM A536 ductile iron and shall be of a non-clogging design to minimize clogging of solids and fibrous materials. Impellers shall contain pressure vanes on the back shroud to prevent accumulation of debris around seals. The impeller shall be statically, dynamically, and hydraulically balanced. Impellers shall be keyed and bolted to a shaft.
5. Pump Shaft: The pump shaft shall be of stainless steel with a Brinell hardness of 200, and shall be of adequate size and strength to transmit the full horsepower with a liberal safety factor.
6. Wear Rings : Renewable wearing rings shall be provided on the impeller and casing and shall have wearing surfaces normal to the axis of rotation. Wear rings shall be constructed of brass. Wear rings shall be designed for ease of maintenance and shall be adequately secured to prevent rotation.
7. Seals: A tandem mechanical shaft seal system running in an oil bath shall be provided. Seals shall be of carbon and ceramic with each interface held in contact by its own spring system.
8. Bearings: Pump bearings shall be ball and roller type designed to handle all thrust loads in either direction. Bearing shall have a B-10 life of 50,000 hours minimum at any point on the pump curve.

9. Motor: Motor shall be rated NEMA Class B and housed in a watertight chamber. The starter winding and stator leads shall be insulated with moisture resistant Class F insulation. The motor shall be oil filled and be specifically designed to be operated partially or completely submerged in the liquid being pumped. The motor shall be designed for continuous duty and provide adequate power to meet the pump design point. Motor shall be 480 volt, 3 phase, 60 Hertz with a service factor of 1.25.
10. Heat Sensor: Bi-metallic heat sensors shall be embedded in the end turns of each phase group. Sensors shall be normally closed contacts that should be wired into the control circuit for each pump to alarm on high temperature in the stator. Sensor shall be wired into the pump starter to shut the pump down on high temperature. The contacts shall close back to normal once the stator cools.
11. Moisture Sensor: Moisture sensor shall be a stainless steel probe located in the seal oil chamber. The probe shall sense the presence of water intrusion into the seal oil chamber and indicate water leakage past the lower mechanical seal. The probe shall be energized through a relay located in the control panel. The relay shall be powered by 120V AC line.
12. Rail Mounted Systems: Rail mounted systems shall consist of guide rails, a sliding bracket, and a discharge connection elbow. Guide rails shall be of the size standard with the pump manufacturer and shall not support any portion of the weight of the pump. Guide rails shall be constructed of stainless steel. The sliding guide bracket shall be an integral part of the pump unit. The discharge connection elbow shall be permanently installed in the wet well along with the discharge piping. The pump shall be automatically connected to the discharge connection elbow when lowered into place and shall be easily removed for inspection and service without entering the wet well.
13. Lifting Chain: A lifting chain to raise and lower the pump shall be provided for each pump. The chain shall be type 316 stainless steel and shall be capable of supporting the weight of the pump.
14. Power Cable: The power cable shall comply with ANSI/NFPA No. 70, Type SO or SJO, and shall be of standard construction for submersible pump applications. The cable shall enter the pump through a heavy duty entry assembly provided with an internal grommet assembly to prevent leakage. The cable entry junction chamber and motor shall be separated by a stator lead sealing gland or terminal board which shall isolate the motor interior from foreign material gaining access through the pump top. Power cables shall be a minimum length of 50 feet.
15. Pressure Transducer: The pump on and pump off settings shall be measured by a submersible level transducer with a minimum bottom diaphragm of 2-5/8" providing a 4-20 mA instrumentation signal. The transducer shall be of the solid state head pressure sensing type mounted using a removable cable suspension mounting kit utilizing all stainless steel hardware and cable attached to a 25# plastisol coated cast iron weight. The transducer housing shall be fabricated of type 316 stainless steel. A hydraulic fill liquid behind the diaphragm shall transmit the sensed pressure to a solid state variable capacitance transducer element to convert the sensed pressure to a corresponding electrical value. The sensed media shall exert its pressure against the diaphragm that flexes minutely so as to vary the proximity between an internal ceramic diaphragm and a ceramic substrate to vary the capacitance of an electrical field created between the two surfaces. A stable, hybrid operational amplifier assembly shall be incorporated in the transducer to excite and demodulate the sensing mechanism. The internal pressure of the transducer assembly shall be relieved to atmospheric pressure through a urethane jacketed hose/cable assembly and a slack PVC bellows mounted in the upper assembly panel. The sealed breather system shall compensate for variations in barometric pressure and expansion and contraction of air due to temperature changes and altitude as well as prevent fouling from moisture and other corrosive elements. The transducer shall be Keller LevelRat Submersible

Level Transducer Model #1023.01607.051916.13 with 100' cage protector cable or approved equal.

16. Float Switch: The high water alarm & low water alarm shall be controlled by float switches. Switches shall be a 5-1/2" diameter type 316 stainless steel device with a 4 amp mercury free switch at 250 VAC. The float switch cable shall be type SO with three #14 AWG fine stranded copper conductors. The switch assembly shall be installed in the neck of the float switch and held in place by a dual circular crimp. The float switch shall have a minimum net positive buoyancy of two pounds. The float switch shall be attached to the transducer suspension mounting cable.

2.2 WETWELLS

1. Precast Concrete Wetwells: Wetwells shall be of the size and configuration shown on the plans, using precast manhole sections in accordance with Section "Construction Materials".
2. Cast in Place Concrete Wetwells: Wetwells shall be of cast in place concrete construction in accordance with Section "Cast in Place Concrete".

2.3 WETWELL LINING

1. Spray on Epoxy Liners.
 - a. Seamless manhole formed in place, within existing manhole extending from channel to frame.
 - b. Two or three part epoxy coating.
 - c. Existing wall preparation: Follow manufacturers recommendations.
 - d. Minimum thickness: Structurally independent of existing manhole structure or sufficient to form protective barrier when used with Cementitious Manhole Restoration.
 - e. Minimum Tensile Strength (ASTM C307): 2,500 psi.
 - f. Minimum Flexural Strength (ASTM C580): 4,600 psi.
 - g. Approved Manufacturers.
 - 1) Raven.
 - a) Raven 400S (Non Structural Application Only).
 - 2) Sauereisen.
 - a) Sewer Gard No. 210 Sprayable.
 - b) Sewer Gard No. 210 Rotary Spray.
 - c) Sewer Gard No. 210G (Non-Structural Application Only)
 - d) Sewer Gard No. 210 FS
 - e) Hi-Build Filler Compound No. 209HB (Non Structural Application Only).
 - 3) Terre Hill.
 - a) Hydropoxy (Non Structural Application Only).
 - 4) AP/M Permaform.
 - a) Cor+Gard (Non Structural Application Only)
 - 5) SprayRoq, Inc.
 - a) SR6100 (Non Structural Application Only).
 - 6) Warren Environmental, Inc.
 - a) S-301-14 Epoxy Spray System.
 - b) M-301-18 Epoxy Trowel-On Mastic System.
 - c) S-301-20 Thermaflex (Non Structural Application Only).
 - d) SG-201 Injection Grout (Non Structural Application Only).
 - 7) Sherwin Williams
 - a) Cor-cote SC Sewer Cote.

- b) Cor-cote SC Plus Hi-Build Epoxy.
- 8) Sika
 - a) Sikagard 62
- 9) Or Equal.

2.4 PIPING

1. General: Pump station piping shall be Protecto 401 lined ductile iron pressure pipe, Thickness Class 51, in accordance with Section "Construction materials".

2.5 ACCESS HATCHES

1. General: Access hatches shall be Halliday, Bilco, or approved equal. Hatch size shall be confirmed by pump supplier to allow adequate room for the installation and removal of the pumps provided. Deviations in the sizes shown on the plans shall be noted to the ENGINEER during the submittal process. All hatches shall have fall protection grates.

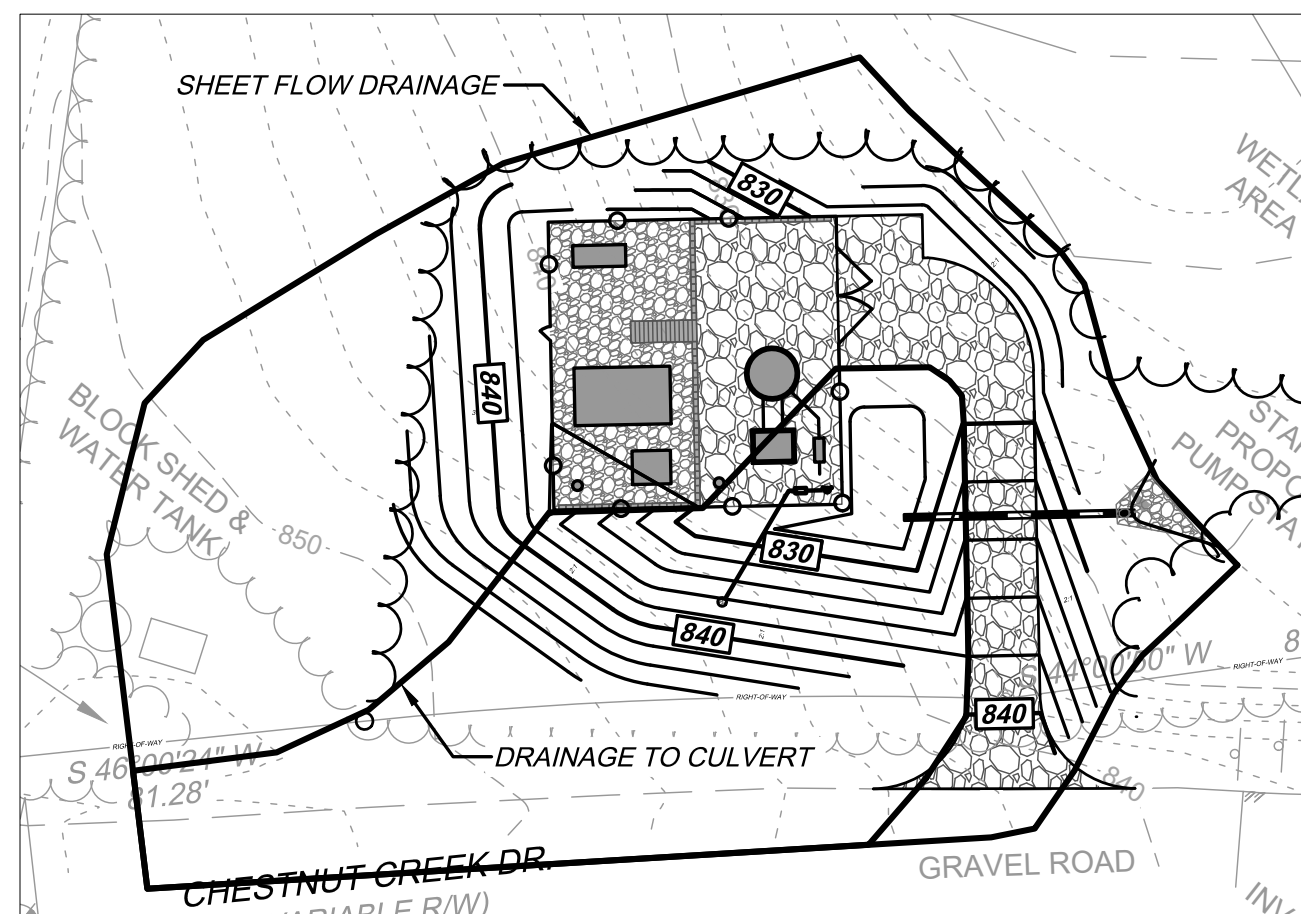
PART 3 EXECUTION

3.1 INSTALLATION

1. General: Install all equipment in strict accordance with the manufacturer's recommendations. Supply all equipment and accessories not specifically provided by the manufacturer but required for satisfactory installation and operation. All anchor bolts shall be plated steel while all other miscellaneous fasteners shall be stainless steel. All bolts shall be of ample size for the purpose intended.
2. Startup: Coordinate startup services of the equipment manufacturer's field service technician with the ENGINEER and OWNER.

END OF SECTION

THIS SHEET IS INTENDED TO BE REPRODUCED AT 1/8" = 1'-0" SCALE. REPRODUCTION OF THIS SHEET AT A DIFFERENT SCALE THAN INTENDED SHALL VOID THE SCALE SHOWN ON THE SHEET.

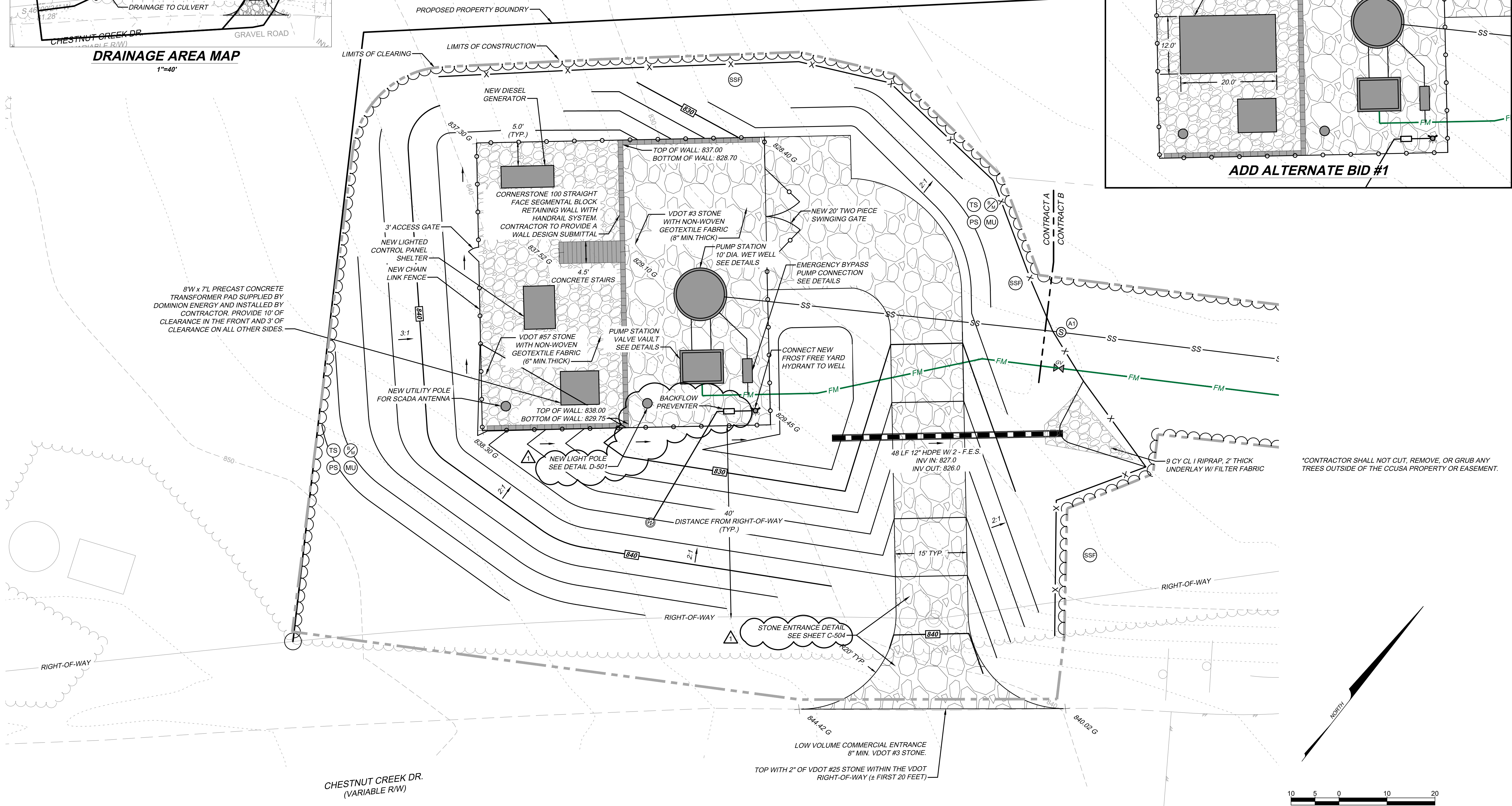
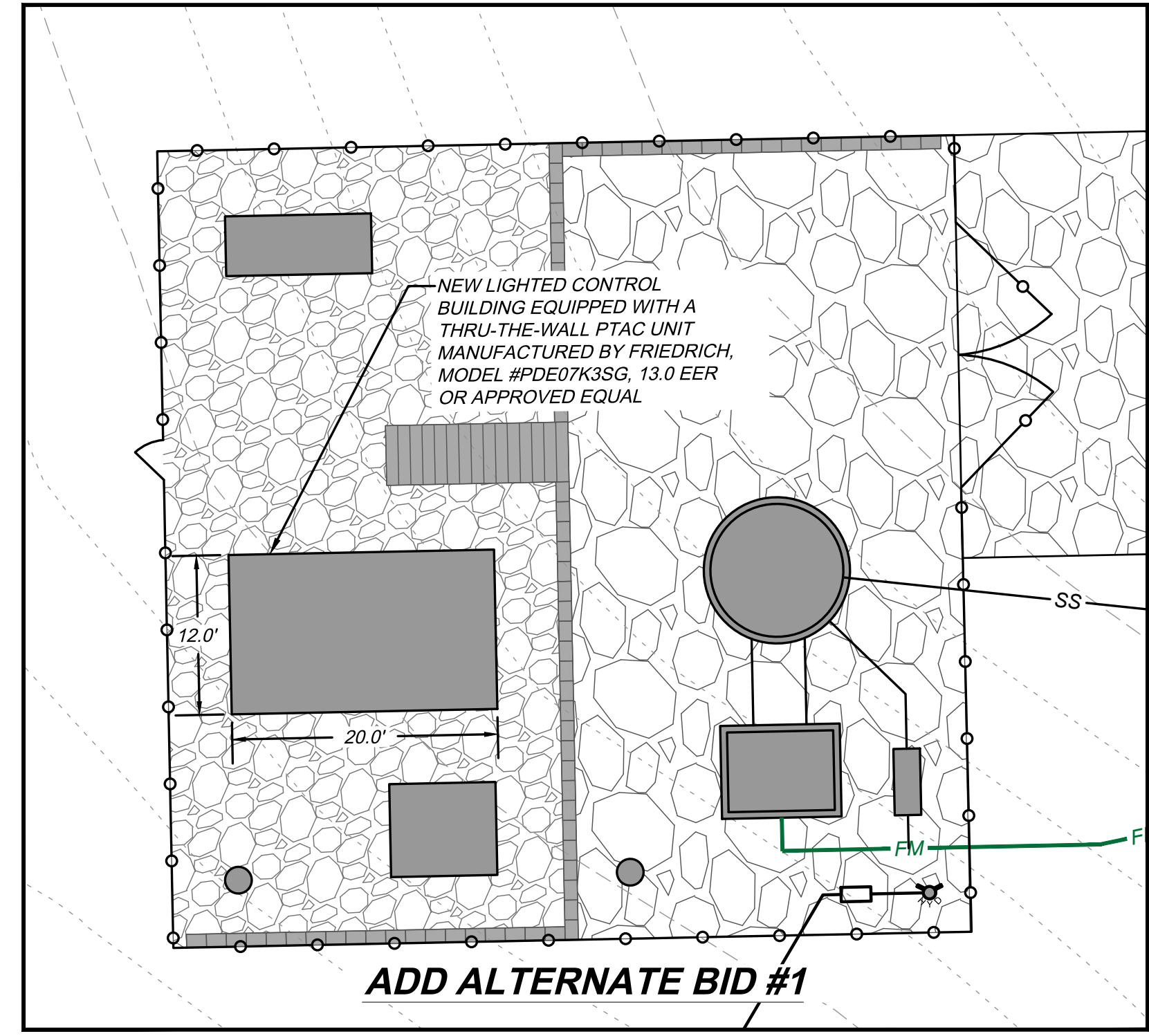


| Runoff Calculations | | | |
|-----------------------|-----|---------|------------|
| | | Culvert | Sheet Flow |
| Drainage Area | AC | 0.2 | 0.7 |
| Impervious Area | AC | 0.1 | 0.2 |
| Pervious Area | AC | 0.1 | 0.5 |
| C | | 0.60 | 0.47 |
| Time of Concentration | MIN | 5 | 5 |
| Design Flow (10-YR) | CFS | 0.7 | 1.9 |
| Pipe Size | IN | 12 | |
| Pipe Slope | % | 2 | |
| Pipe n-value | CFS | 0.012 | N/A |
| Pipe Capacity | CFS | 5.5 | |

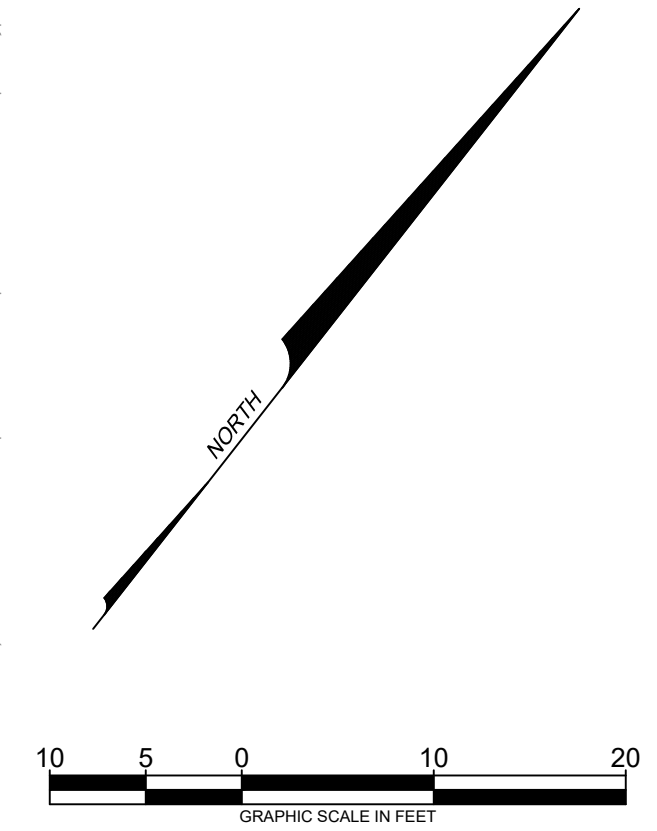
STORMWATER MANAGEMENT NARRATIVE

QUALITY
WATER QUALITY TREATMENT REQUIREMENTS FOR THE PUMP STATION SITE WERE CALCULATED USING THE VIRGINIA RUNOFF REDUCTION METHOD NEW DEVELOPMENT WORKSHEET. NUTRIENT CREDITS WILL BE PURCHASED TO MEET THE REMOVAL REQUIREMENT.

QUANTITY
WATER QUANTITY CONTROL FOR THIS DEVELOPMENT IS SATISFIED THROUGH COMPLIANCE WITH 9VAC25-870-66(D) BY DISCHARGING SITE RUNOFF AS SHEET FLOW. THE RECEIVING AREA BELOW THE SITE HAS BEEN ANALYZED TO SHOW THAT THE FLOW DEPTH IS NO MORE THAN 0.10' FOR STORMS UP TO AND INCLUDING THE 10-YEAR EVENT. THERE IS NO EVIDENCE OF EXISTING EROSION IN THE AREAS WHERE SITE RUNOFF WILL DISCHARGE, AND THE SHEET FLOW VELOCITIES ARE NON-EROSIVE. THUS, THE SHEET FLOW WILL NOT CAUSE OR CONTRIBUTE TO EROSION, SEDIMENTATION, OR FLOODING OF DOWN GRADIENT PROPERTIES OR RESOURCES.



*CONTRACTOR SHALL NOT CUT, REMOVE, OR GRUB ANY TREES OUTSIDE OF THE CCUSA PROPERTY OR EASEMENT.



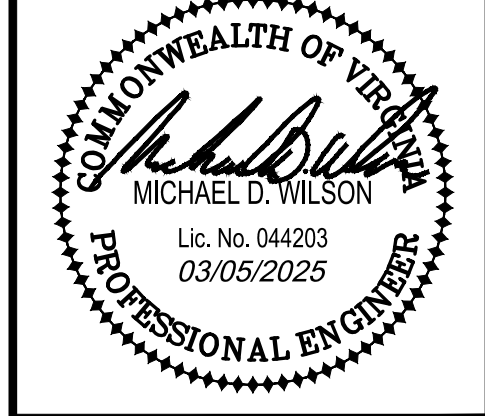
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PUMP STATION SITE PLAN
FOR
MARTIN DRIVE REGIONAL W.W.P.S.
CAMPBELL COUNTY, VIRGINIA

| | |
|-------------|------------|
| PROJECT NO. | 20230622 |
| LAT. | 37.313701 |
| LONG. | -79.260689 |
| DATE: | 03/05/2025 |
| DRAWN BY: | MSF |
| CHECKED BY: | MDW |



BID SET

CCUSA # 80-2304

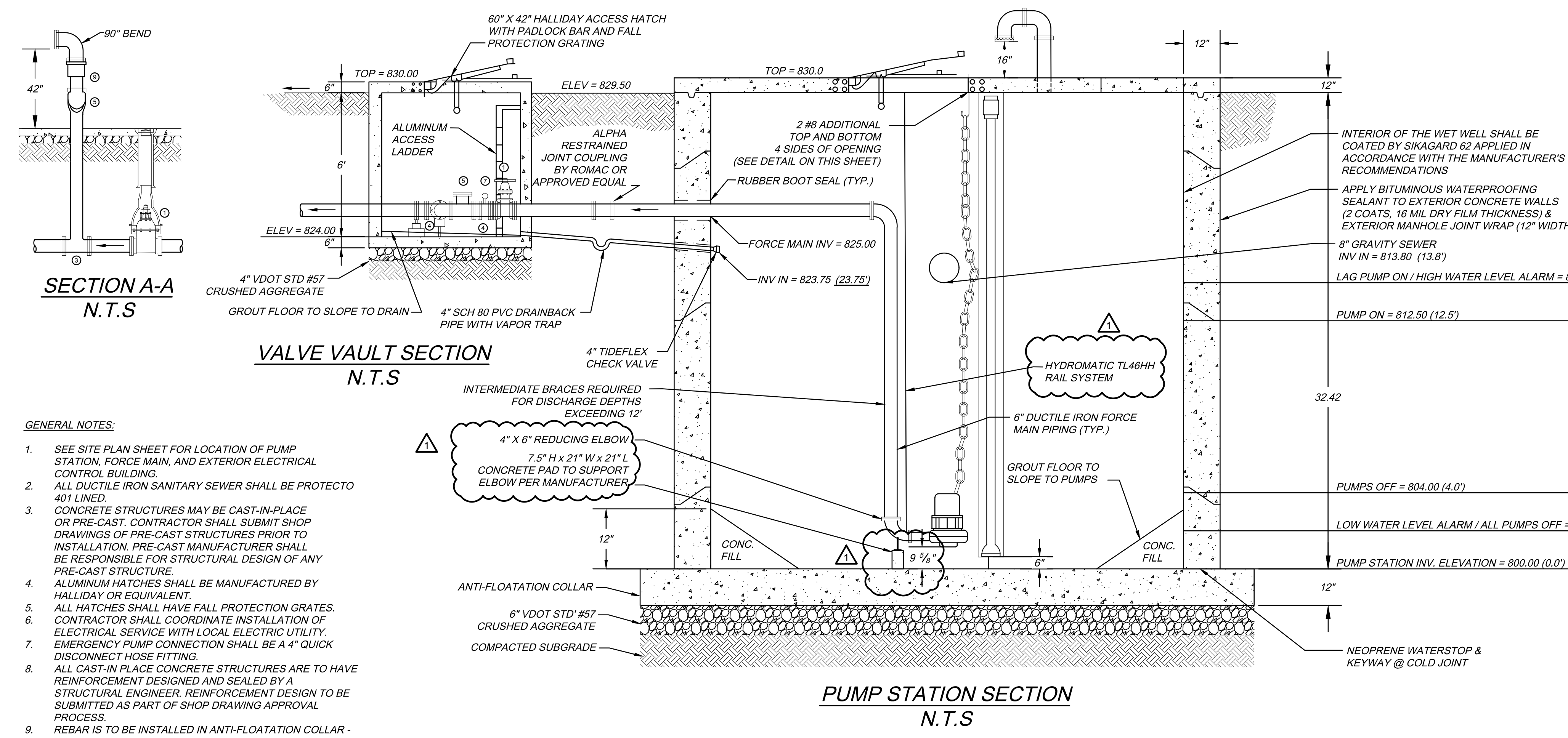
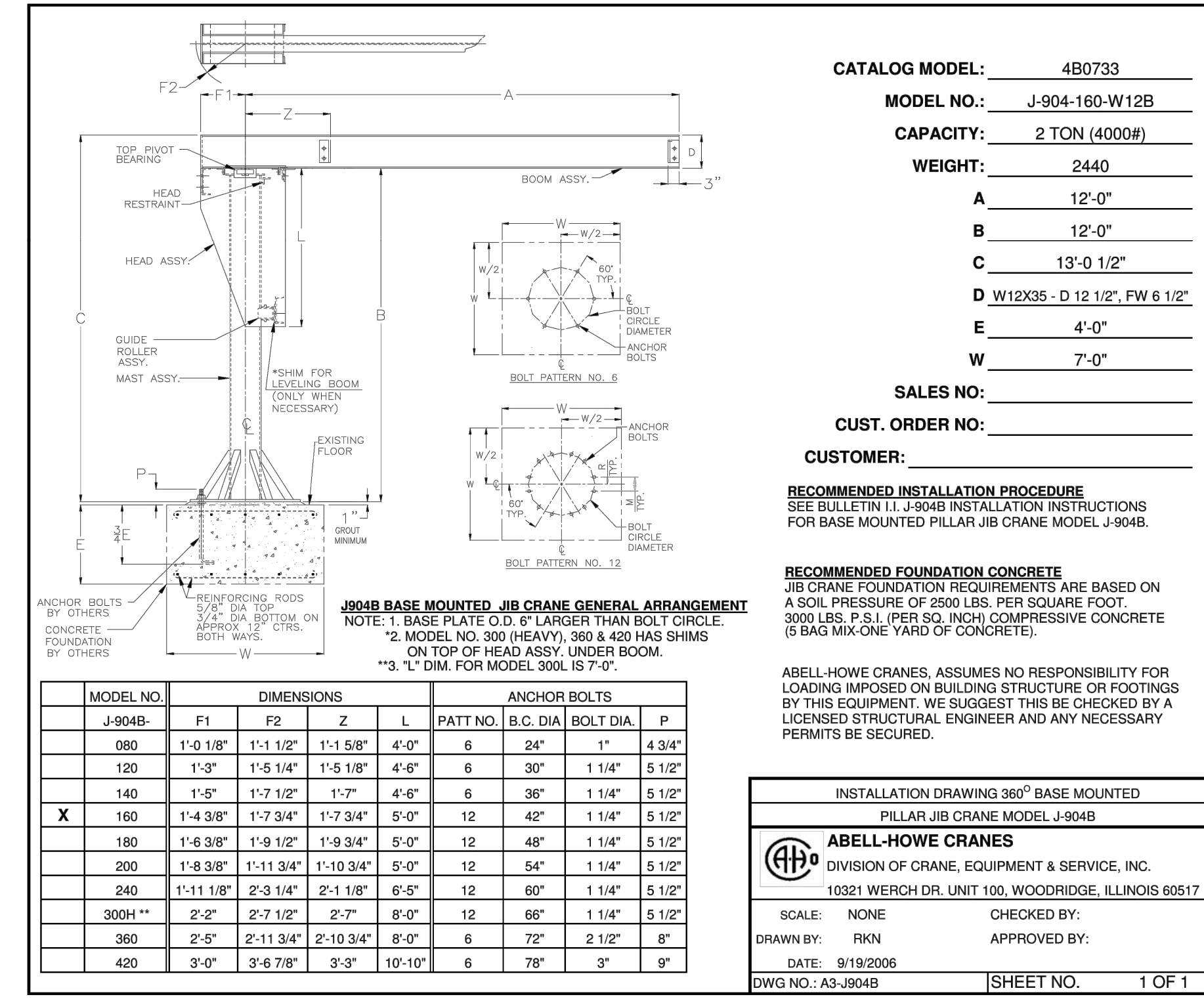
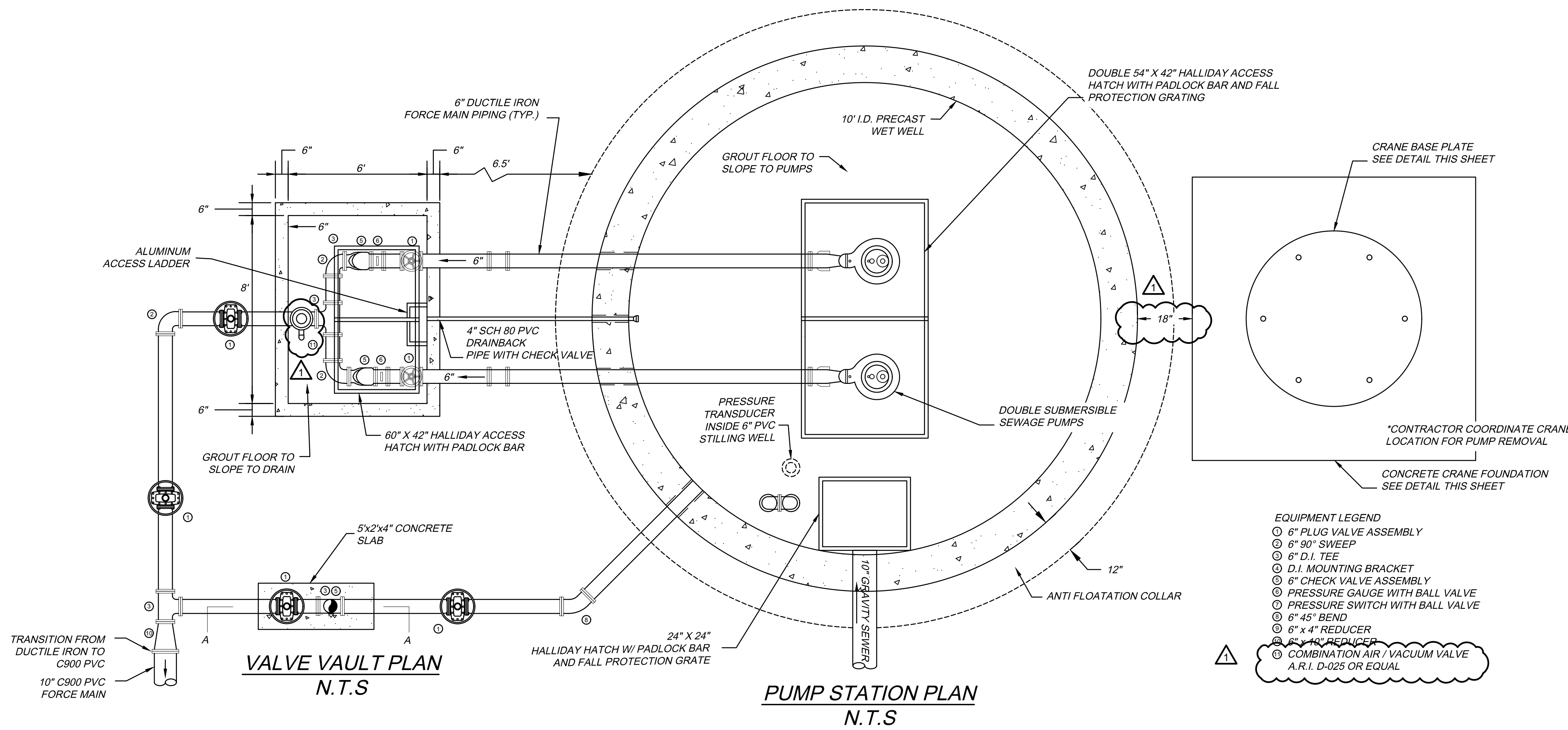
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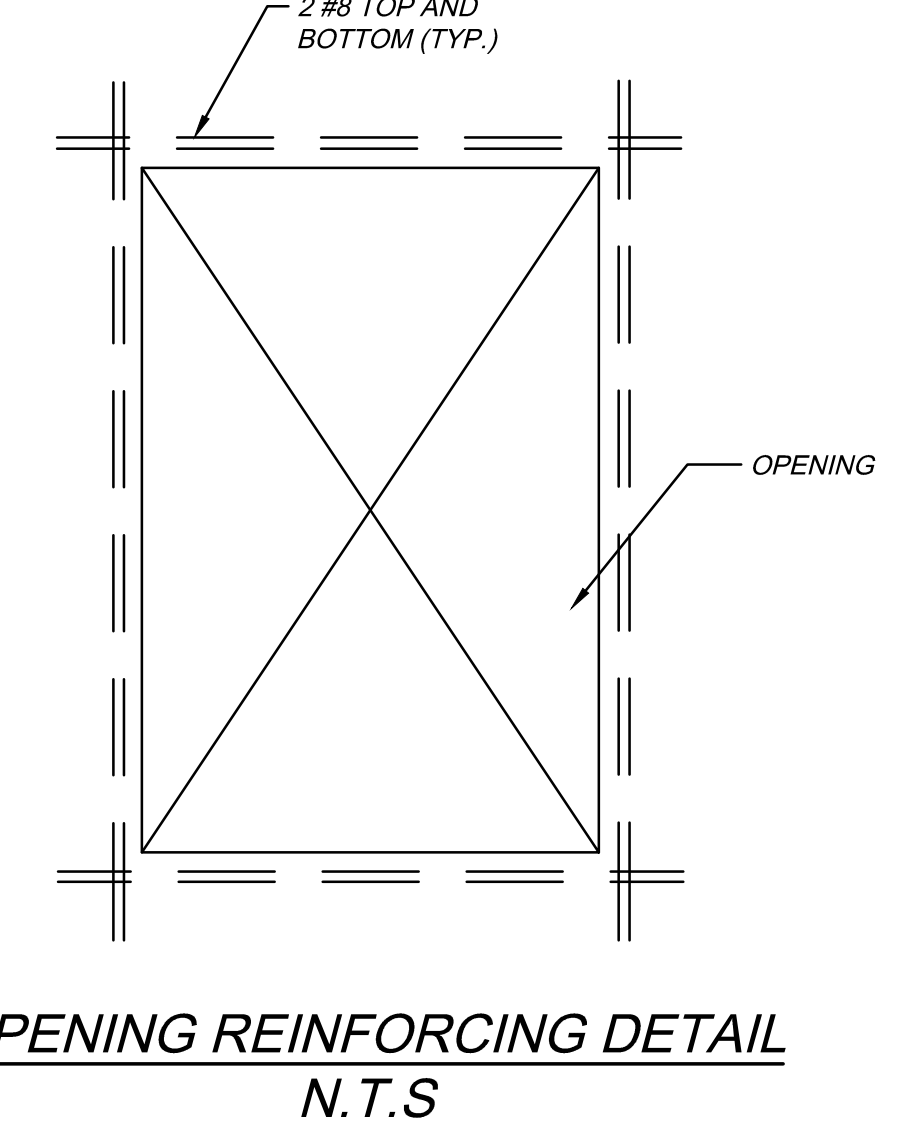
1 | 03/03/2025 | ADDENDUM No.1

PUMP STATION SITE PLAN

THIS SHEET IS INTENDED TO BE REPRODUCED AT 200% REPRODUCTION OF THIS SHEET AT A DIFFERENT SIZE THAN INTENDED SHALL VOID THE SCALE SHOWN ON THE SHEET



CRANE DETAIL
N.T.S.



OPENING REINFORCING DETAIL
N.T.S.

| PUMP SCHEDULE | |
|--------------------------|-----------------------------|
| DESIGNATION | LEAD/LAG PUMPS |
| DESCRIPTION | SUBMERSIBLE SOLIDS HANDLING |
| MANUFACTURER | PENTAIR HYDROMATIC |
| MODEL NUMBER | S4T |
| VOLTAGE | 480 VOLTS - 3 PHASE |
| FLOW CAPACITY - GPM | 675.0 |
| TOTAL DYNAMIC HEAD - FT. | 224.0 |
| MOTOR HORSEPOWER | 125.0 |
| PUMP SPEED - RPM | 1,750 |
| IMPELLER DIAMETER | 14.25" |

| PUMP LEVEL CONTROL SEQUENCE | | |
|--|-------|-----------|
| CONDITION | LEVEL | ELEVATION |
| LAG PUMP ON / HIGH WATER LEVEL ALARM (CONTROLLED BY FLOAT SWITCH) | 13.5' | 813.50 |
| * PUMP ON (CONTROLLED BY PRESSURE TRANSDUCER) | 12.5' | 812.50 |
| * PUMP OFF (CONTROLLED BY PRESSURE TRANSDUCER) | 4.0' | 804.00 |
| LOW WATER LEVEL ALARM / ALL PUMPS OFF (CONTROLLED BY FLOAT SWITCH) | 3.0' | 803.00 |
| PUMP STATION INV. ELEVATION | 0.0' | 800.00 |

- GENERAL NOTES:**
- SEE SITE PLAN SHEET FOR LOCATION OF PUMP STATION, FORCE MAIN, AND EXTERIOR ELECTRICAL CONTROL BUILDING.
 - ALL DUCTILE IRON SANITARY SEWER SHALL BE PROTECTED 401 LINED.
 - CONCRETE STRUCTURES MAY BE CAST-IN-PLACE OR PRE-CAST. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRE-CAST STRUCTURES PRIOR TO INSTALLATION. PRE-CAST MANUFACTURER SHALL BE RESPONSIBLE FOR STRUCTURAL DESIGN OF ANY PRE-CAST STRUCTURE.
 - ALUMINUM HATCHES SHALL BE MANUFACTURED BY HALLIDAY OR EQUIVALENT.
 - ALL HATCHES SHALL HAVE FALL PROTECTION GRATES. CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL SERVICE WITH LOCAL ELECTRIC UTILITY.
 - EMERGENCY PUMP CONNECTION SHALL BE A 4" QUICK DISCONNECT HOSE FITTING.
 - ALL CAST-IN PLACE CONCRETE STRUCTURES ARE TO HAVE REINFORCEMENT DESIGNED AND SEALED BY A STRUCTURAL ENGINEER. REINFORCEMENT DESIGN TO BE SUBMITTED AS PART OF SHOP DRAWING APPROVAL PROCESS.
 - REBAR IS TO BE INSTALLED IN ANTI-FLOATATION COLLAR - #5 AT 12" ON CENTER EACH WAY.

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PUMP STATION DETAILS
FOR
MARTIN DRIVE REGIONAL W.W.P.S.
CAMPBELL COUNTY, VIRGINIA

PROJECT NO. 20230622
LAT. 37.313701
LONG. -79.260669
DATE: 03/05/2025
DRAWN BY: MSF
CHECKED BY: MDW



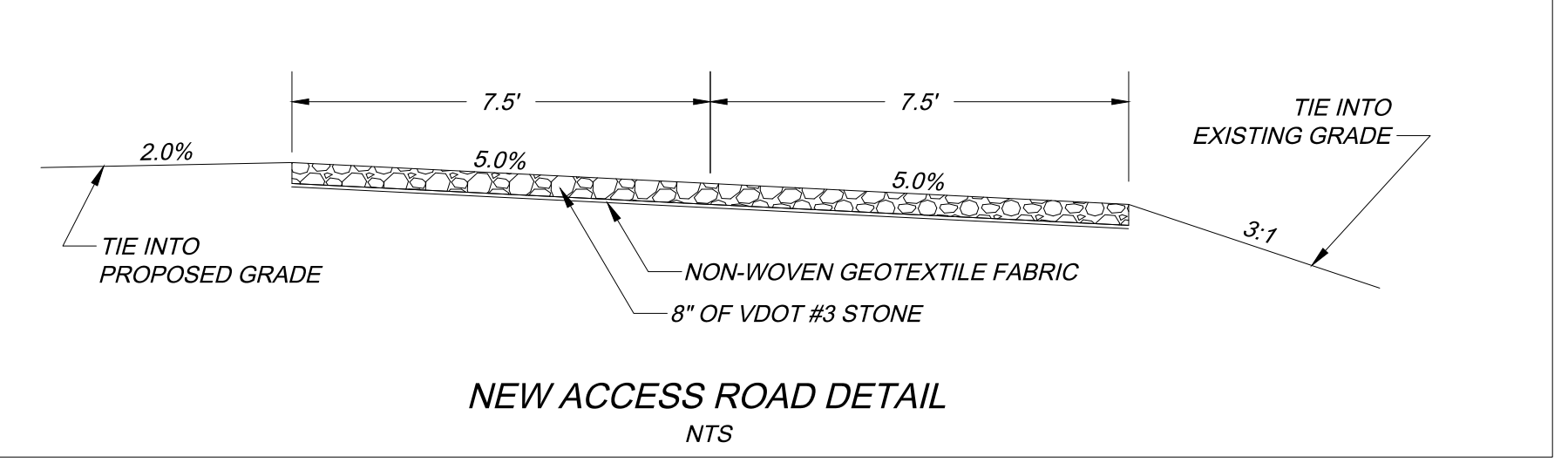
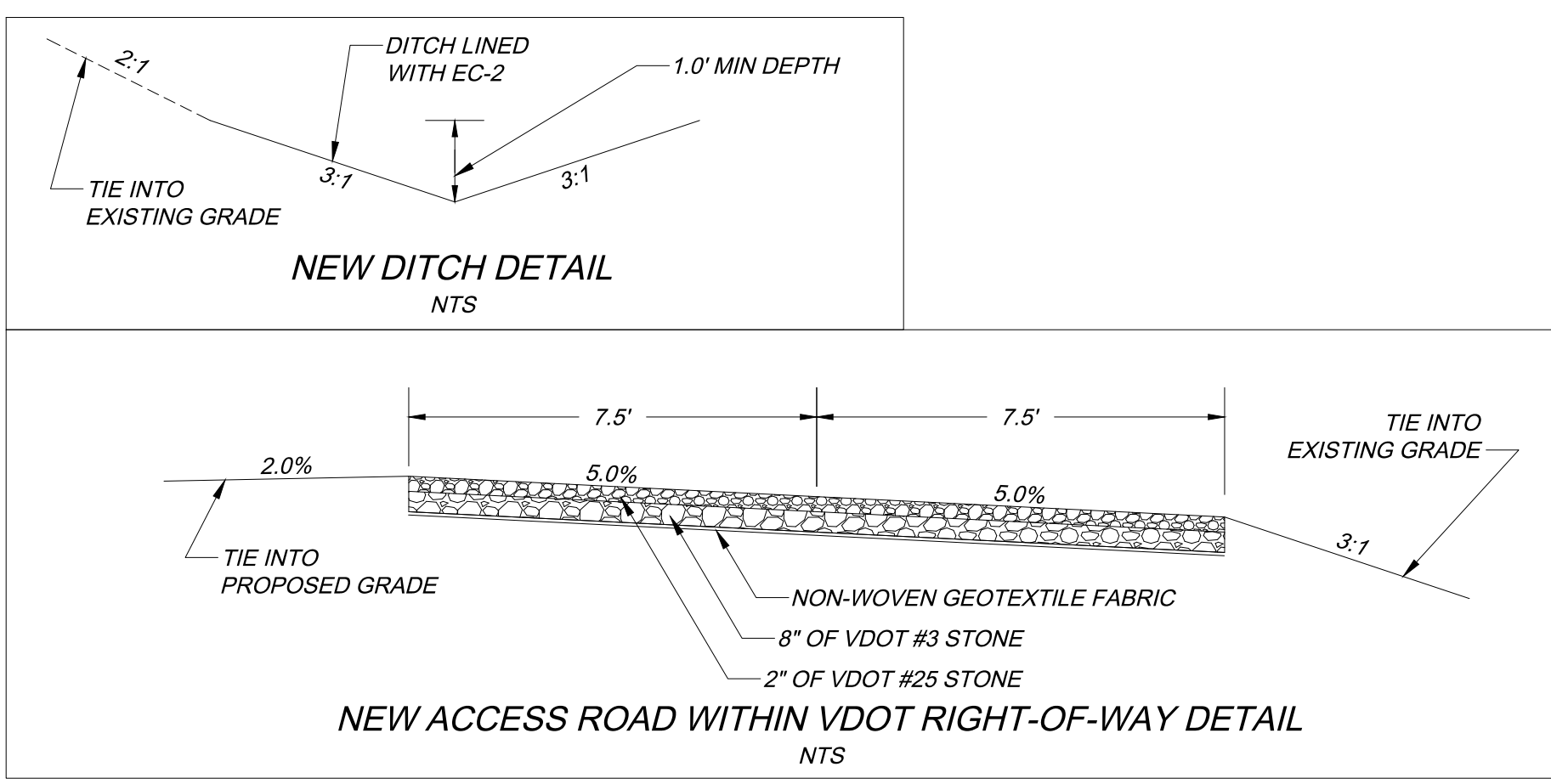
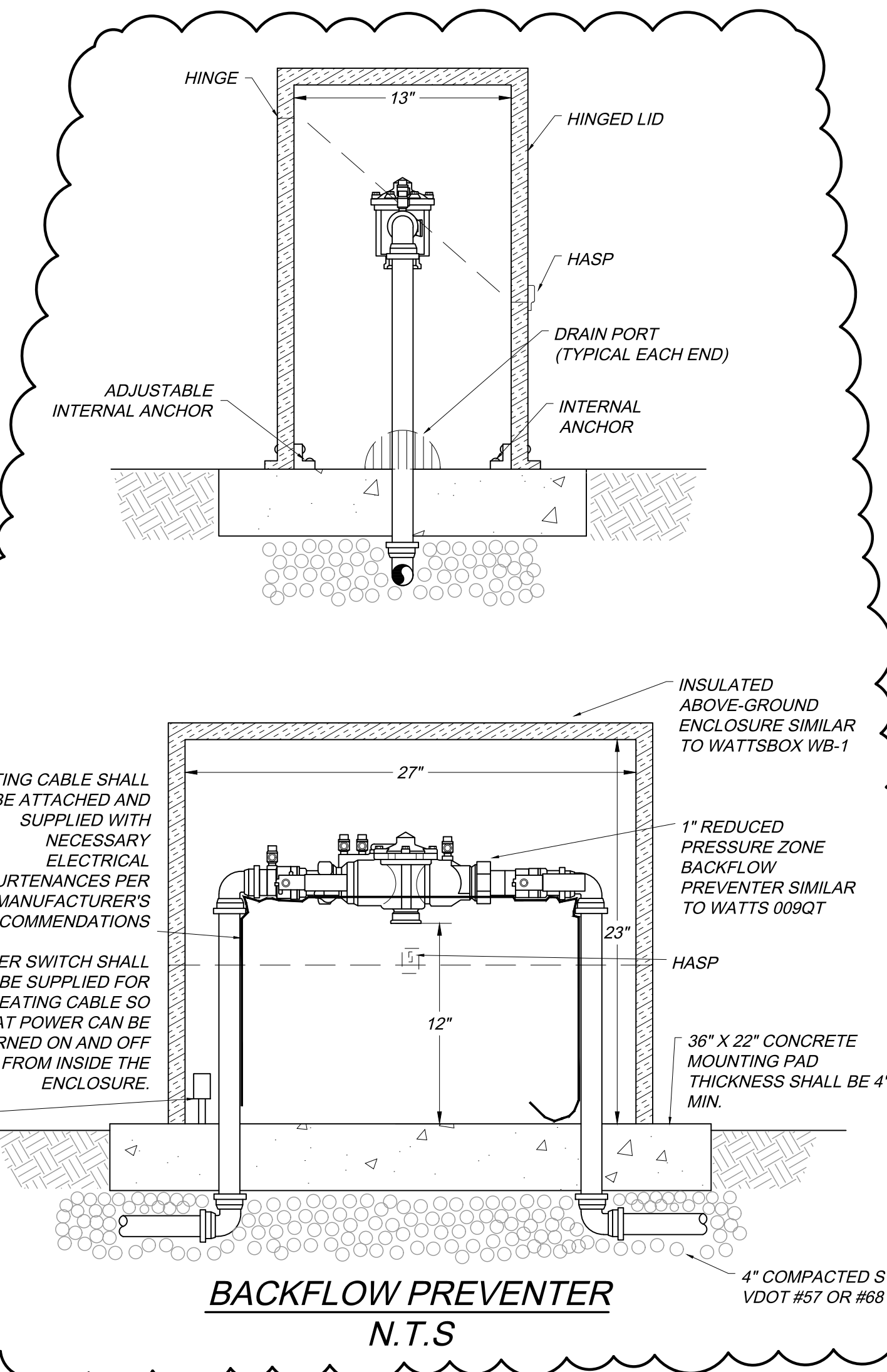
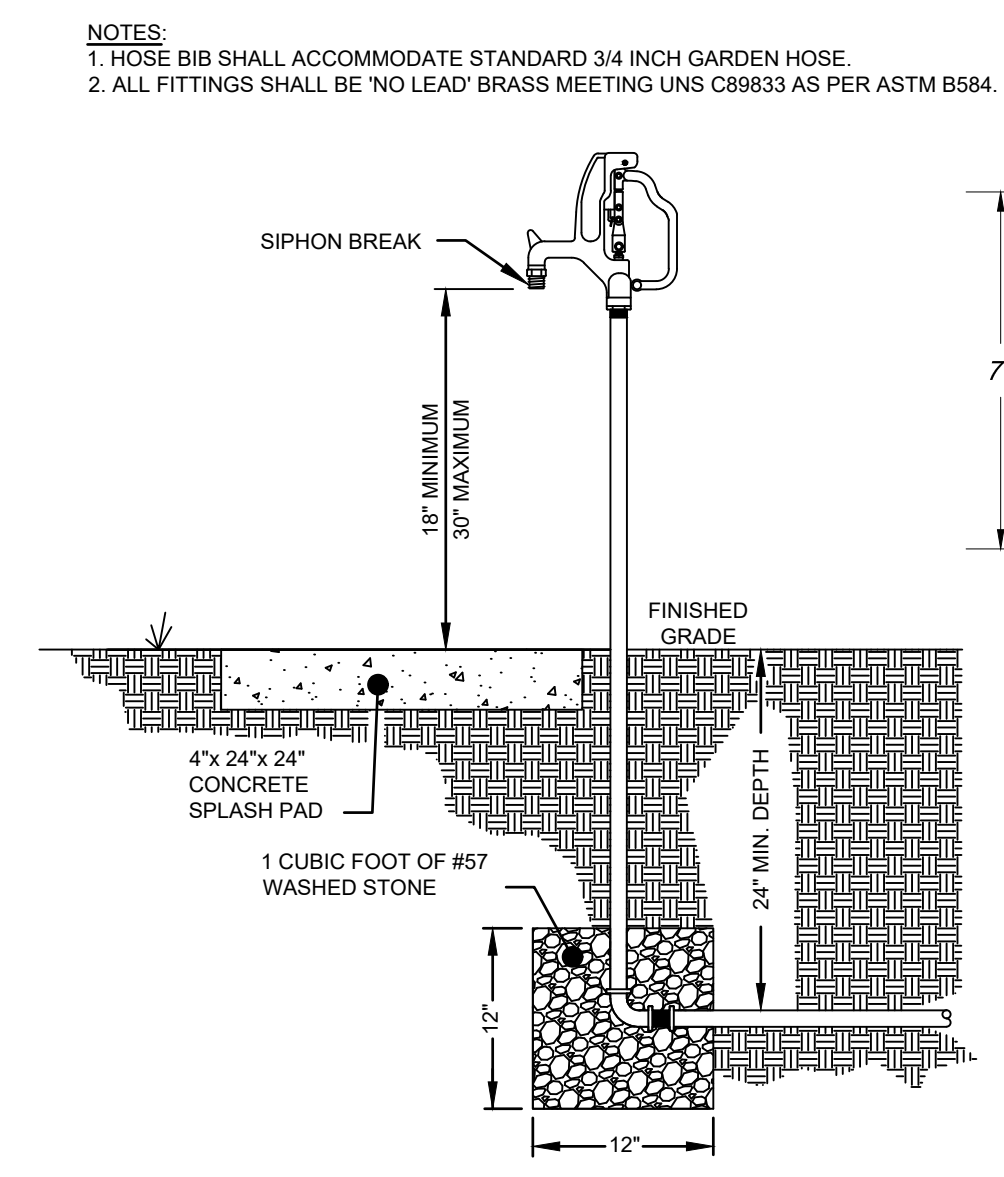
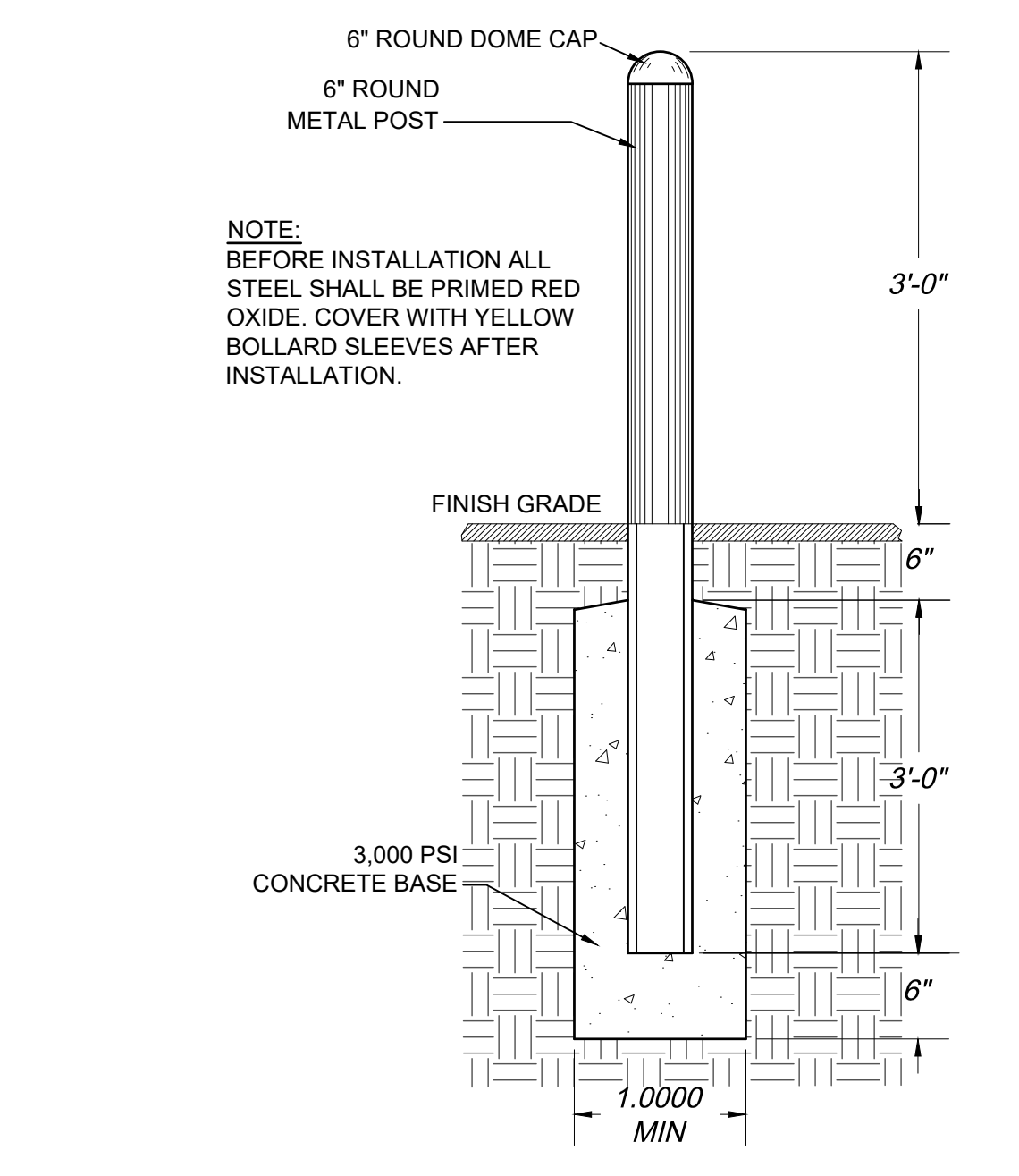
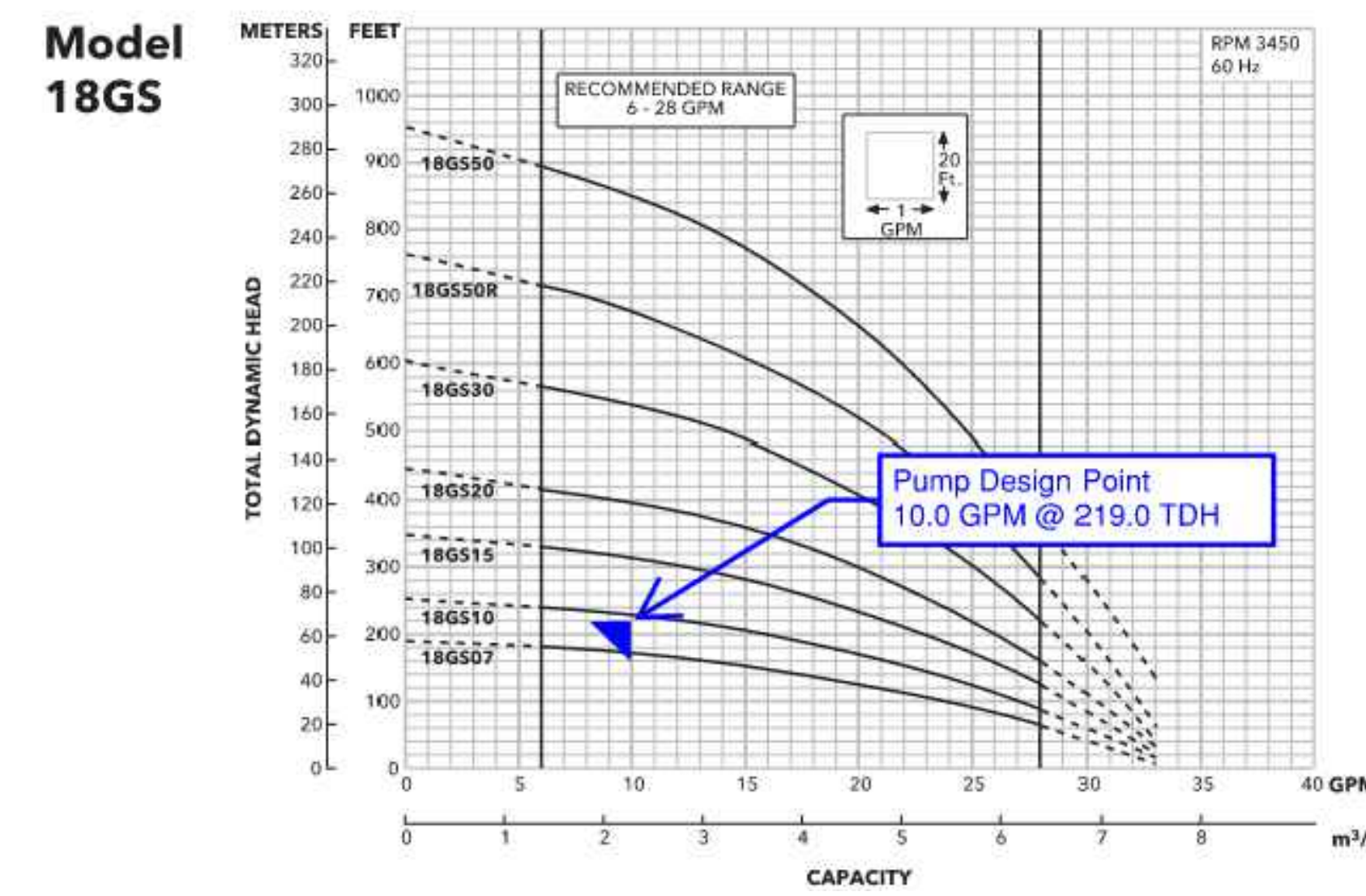
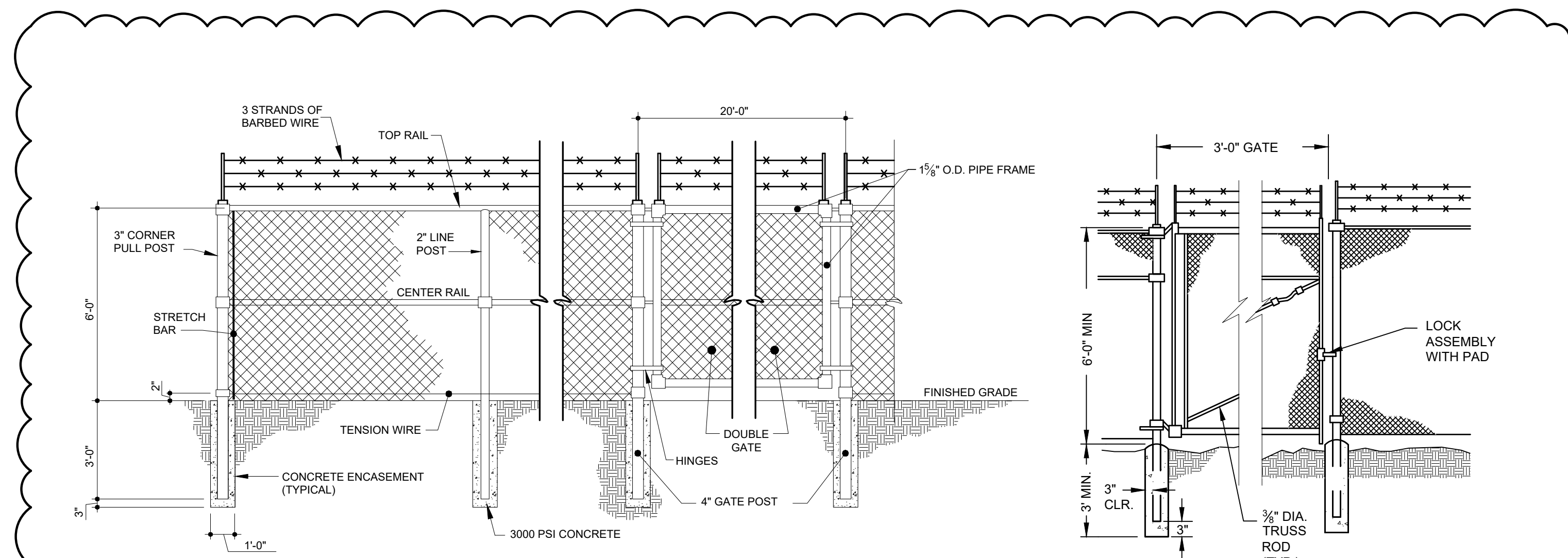
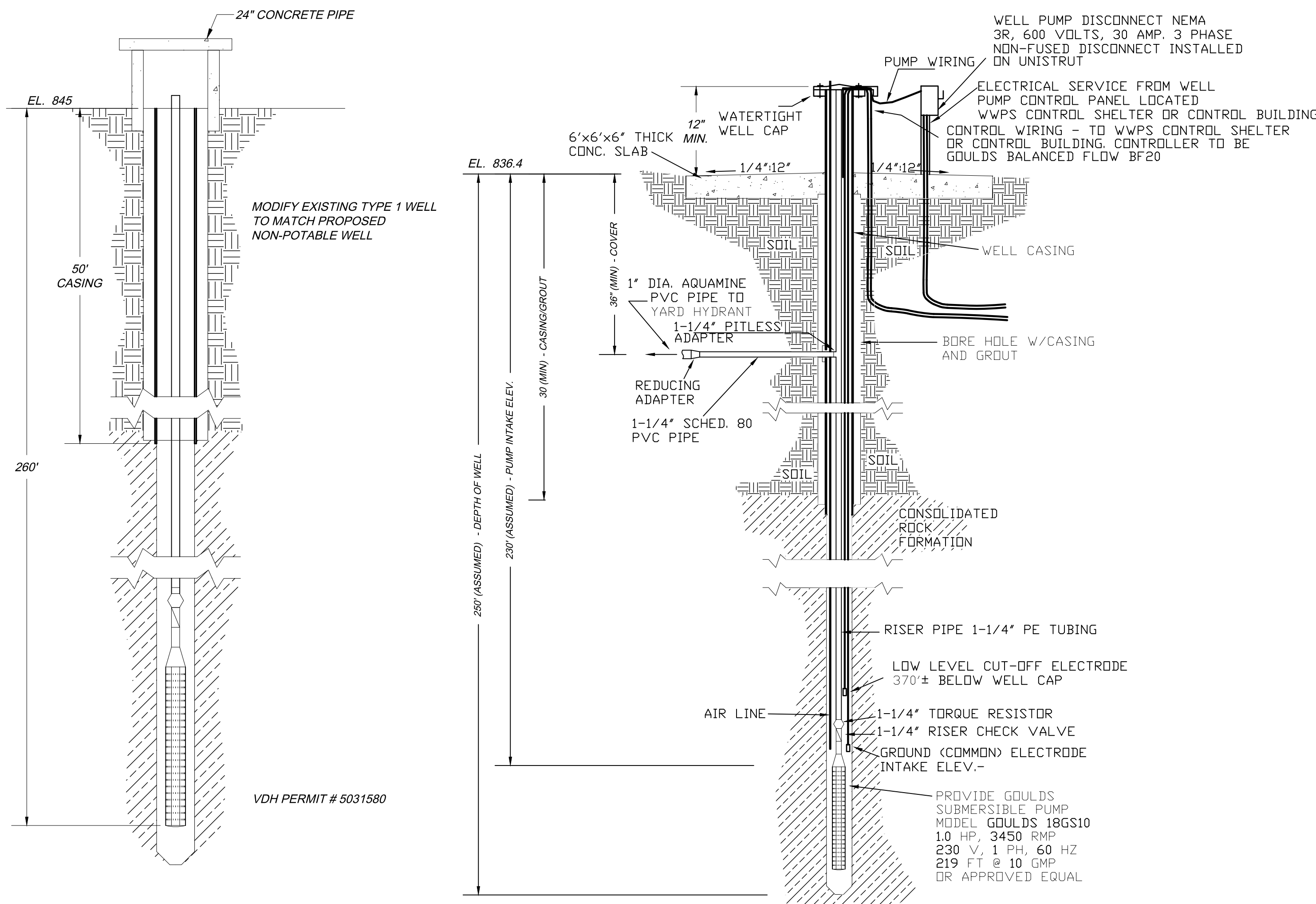
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CCUSA # 80-2304

HURT & PROFFIT

SHEET NO. C-503 REV. ---

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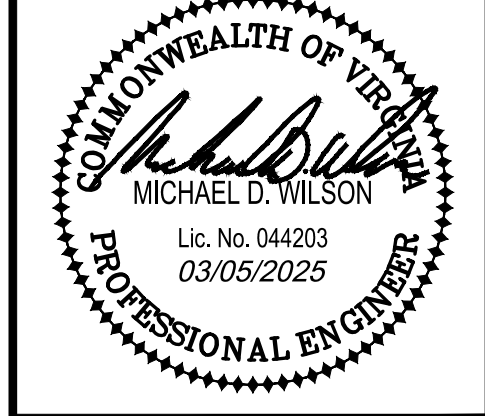
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PUMP STATION SITE DETAILS
FOR
MARTIN DRIVE REGIONAL W.W.P.S.
CAMPBELL COUNTY, VIRGINIA

PROJECT NO. 20230622
LAT. 37.313701
LONG. -79.260689
DATE: 03/05/2025
DRAWN BY: MSF
CHECKED BY: MDW

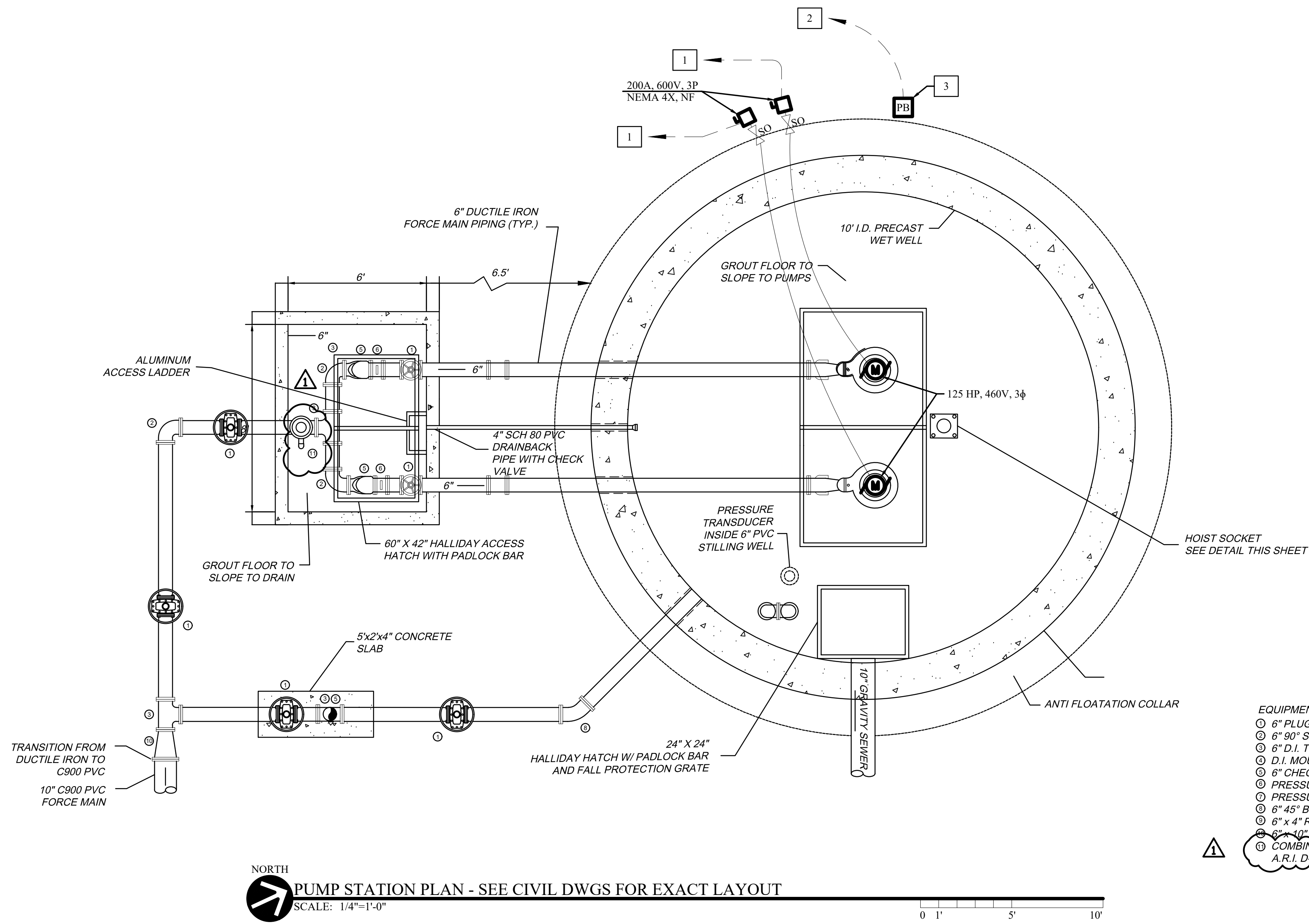


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CCUSA # 80-2304

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SHEET NO. C-504
REV. ---

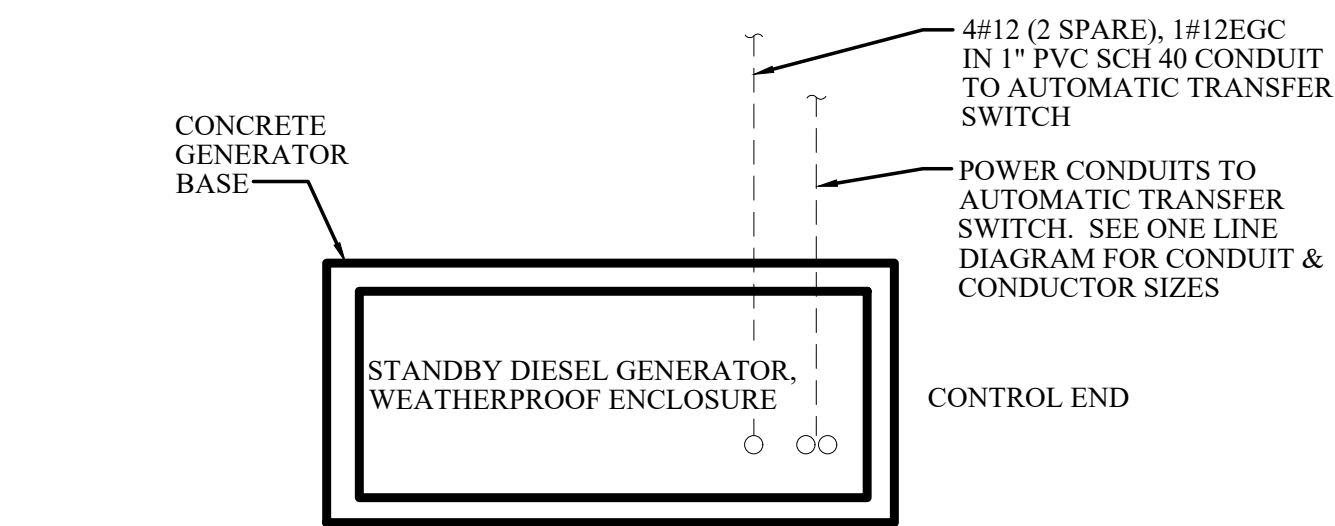
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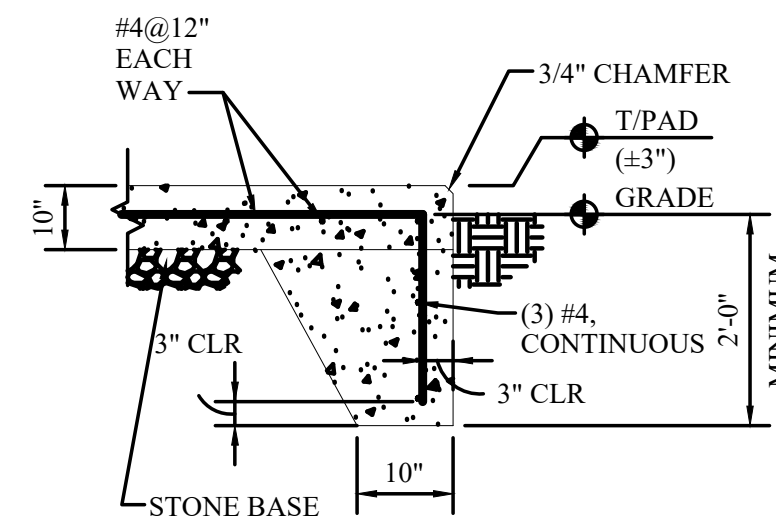
PUMP STATION PLAN - SEE CIVIL DWGS FOR EXACT LAYOUT
SCALE: 1/4"=1'-0"

CONSTRUCTION NOTES:

1. PROVIDE UGE PER DRAWING E-100.
2. PROVIDE 2" PVC SCH 80 CONDUIT TO PUMP STARTER PANEL FOR WET WELL LEVEL CONTROL CABLES.
3. 12"x12"x6"D NEMA 4X PULL BOX INSTALLED 24" AFG FOR WET WELL LEVEL CONTROL CABLES.

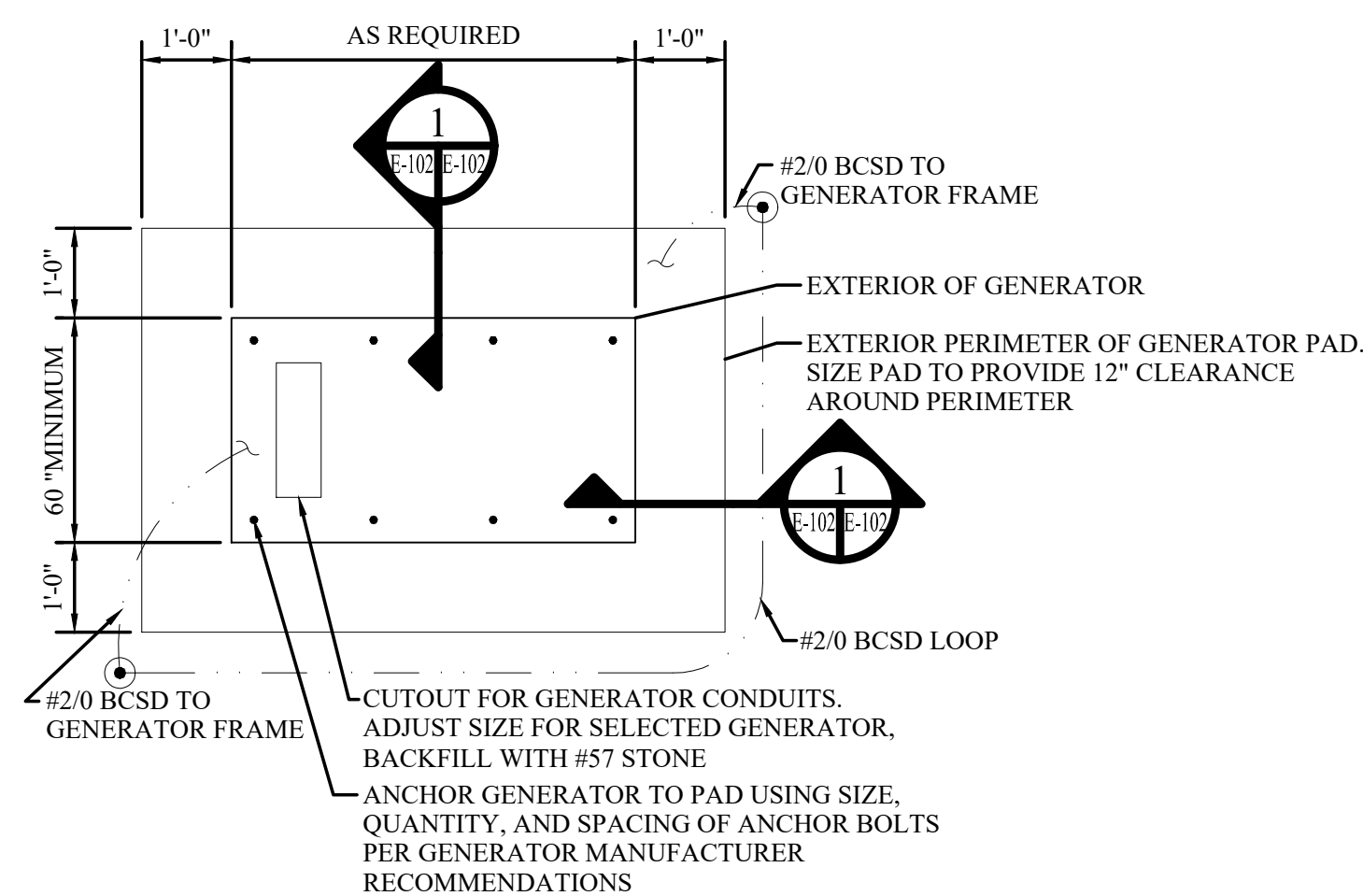


GENERATOR PLAN
SCALE: NONE



GENERATOR PAD SECTION
SCALE: NONE

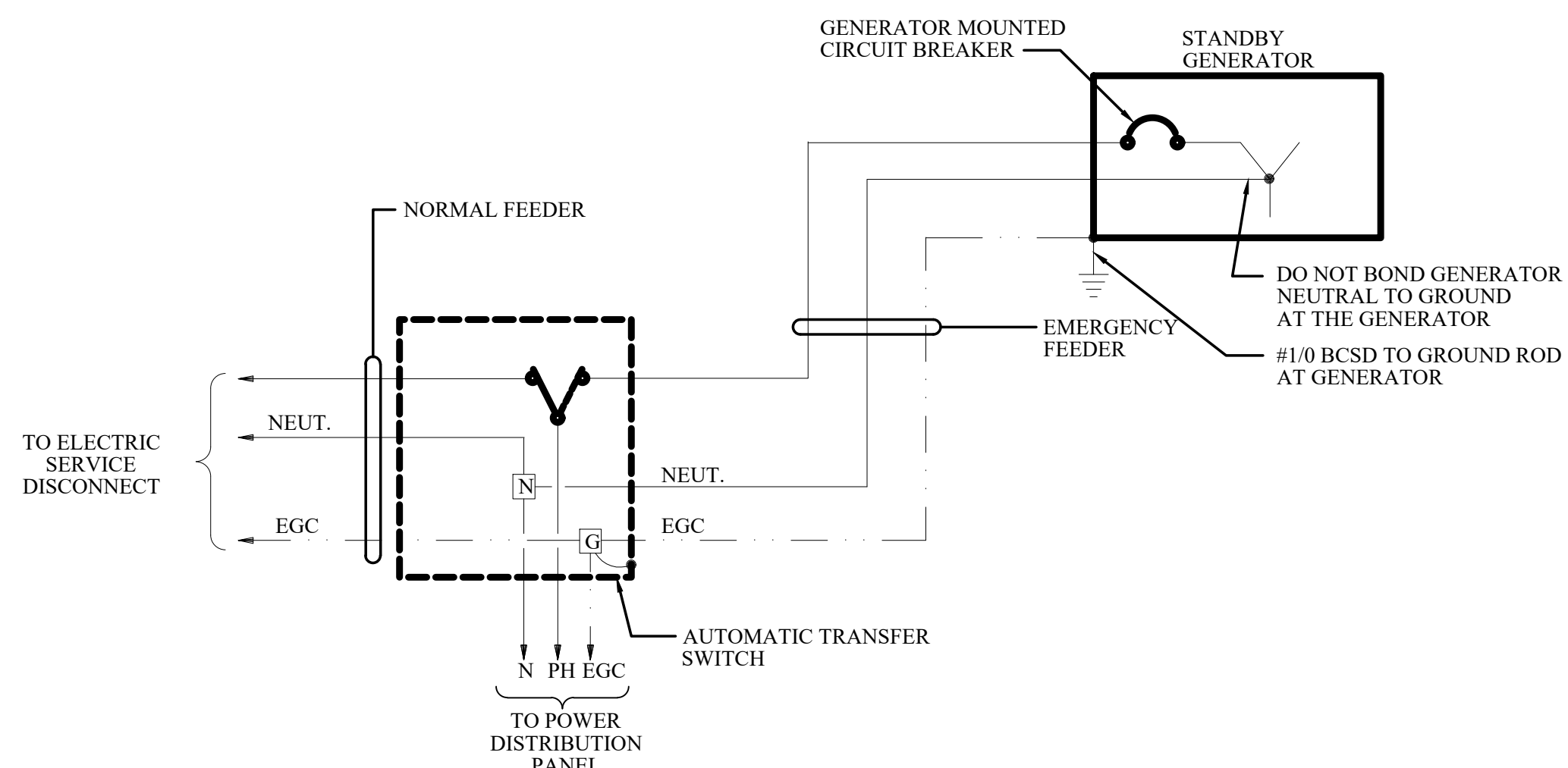
- EQUIPMENT LEGEND**
- ⊙ 6" PLUG VALVE ASSEMBLY
 - ⊙ 6" 90° SWEEP
 - ⊙ 6" D.I. TEE
 - ⊙ D.I. MOUNTING BRACKET
 - ⊙ 6" CHECK VALVE ASSEMBLY
 - ⊙ PRESSURE GAUGE WITH BALL VALVE
 - ⊙ PRESSURE SWITCH WITH BALL VALVE
 - ⊙ 6" 45° BEND
 - ⊙ 6" x 4" REDUCER
 - ⊙ 6" x 10" REDUCER
 - ⊙ COMBINATION AIR / VACUUM VALVE A.R.I. D-025 OR EQUAL



GENERATOR PAD DETAIL
SCALE: NONE

CONCRETE AND REINFORCEMENT NOTES:

1. GENERATOR PAD SOIL BEARING CAPACITY SHALL BE A MINIMUM 1,500 PSF. CONTRACTOR SHALL ENGAGE INSPECTOR TO VERIFY SOIL BEARING CAPACITY AND REINFORCEMENT PLACEMENT PRIOR TO CONCRETE PLACEMENT. SUBMIT INSPECTION REPORT TO A/E FOR REVIEW.
2. CONCRETE SHALL BE NORMAL WEIGHT 145 PCF WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
3. REINFORCING BARS SHALL BE ROLLED FROM NEW BILLET STEEL CONFORMING WITH ASTM A615/A615M, GRADE 60, UNLESS OTHERWISE NOTED.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR ALL REINFORCEMENT, UNLESS OTHERWISE NOTED:
 - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
 - B. CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BAR AND SMALLER: 1 1/2"
5. LAP ALL REINFORCING SPLICES AT LEAST 48 BAR DIAMETERS (24" MINIMUM) UNLESS OTHERWISE NOTED.
6. ALL REINFORCING SHALL BE SECURELY WIRED TOGETHER IN FORMS AS CALLED FOR IN "PLACING REINFORCING BARS" BY CRSI.
7. STONE BASE SHALL BE 4" THICK, #57 STONE.



CONNECTION DIAGRAM - NEUTRAL & GROUND CONDUCTORS
SCALE: NONE

PROJECT NO. 20230622
LAT. 37.313701
LONG. -79.260689
DATE: 03/05/2025
DRAWN BY: MSF
CHECKED BY: WKH / MDW

COMMONWEALTH OF VIRGINIA
MICHAEL D. WILSON
Lic. No. 044203
03/05/2025
PROFESSIONAL ENGINEER

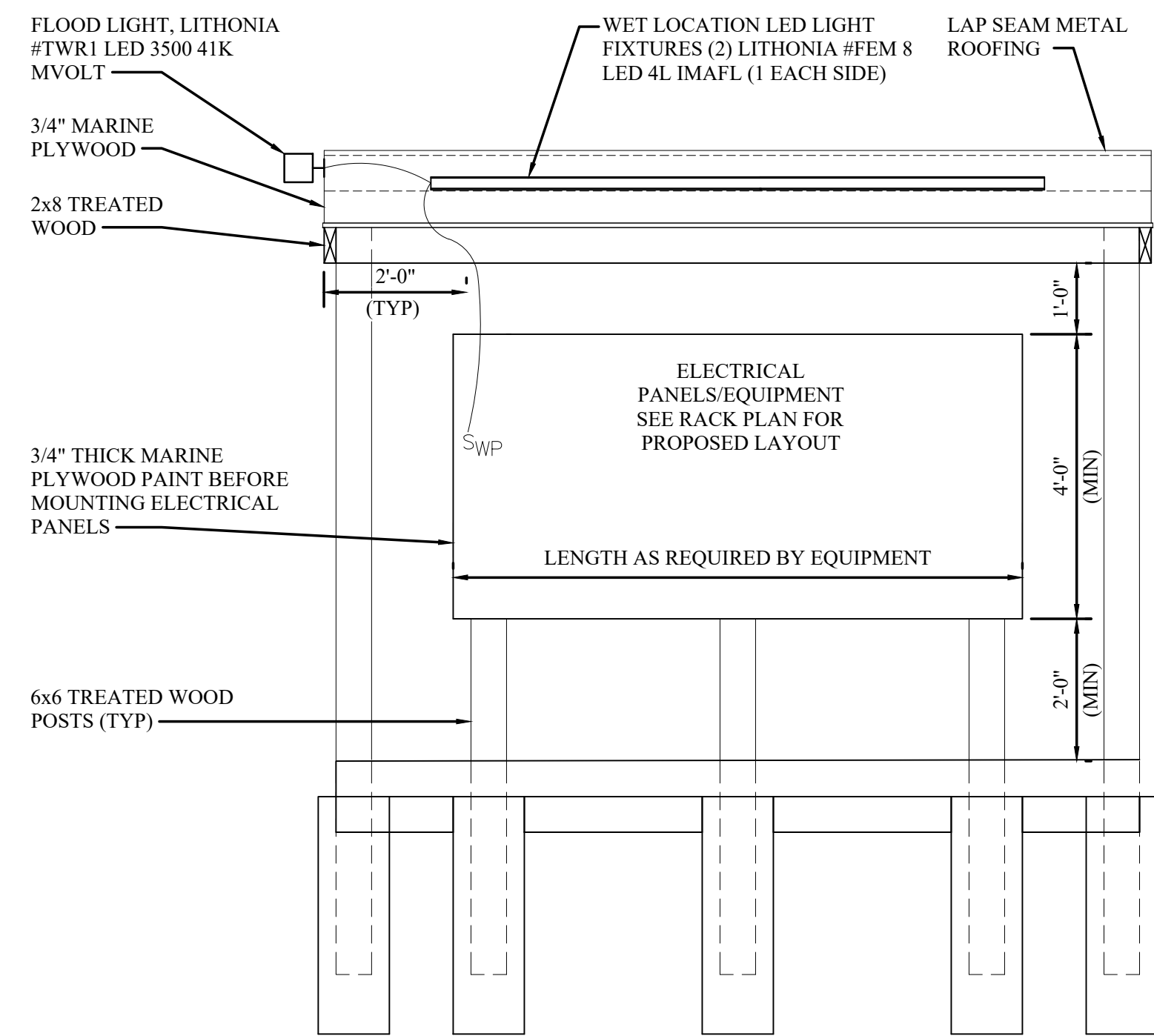
BID SET

CCUSA # 80-2304

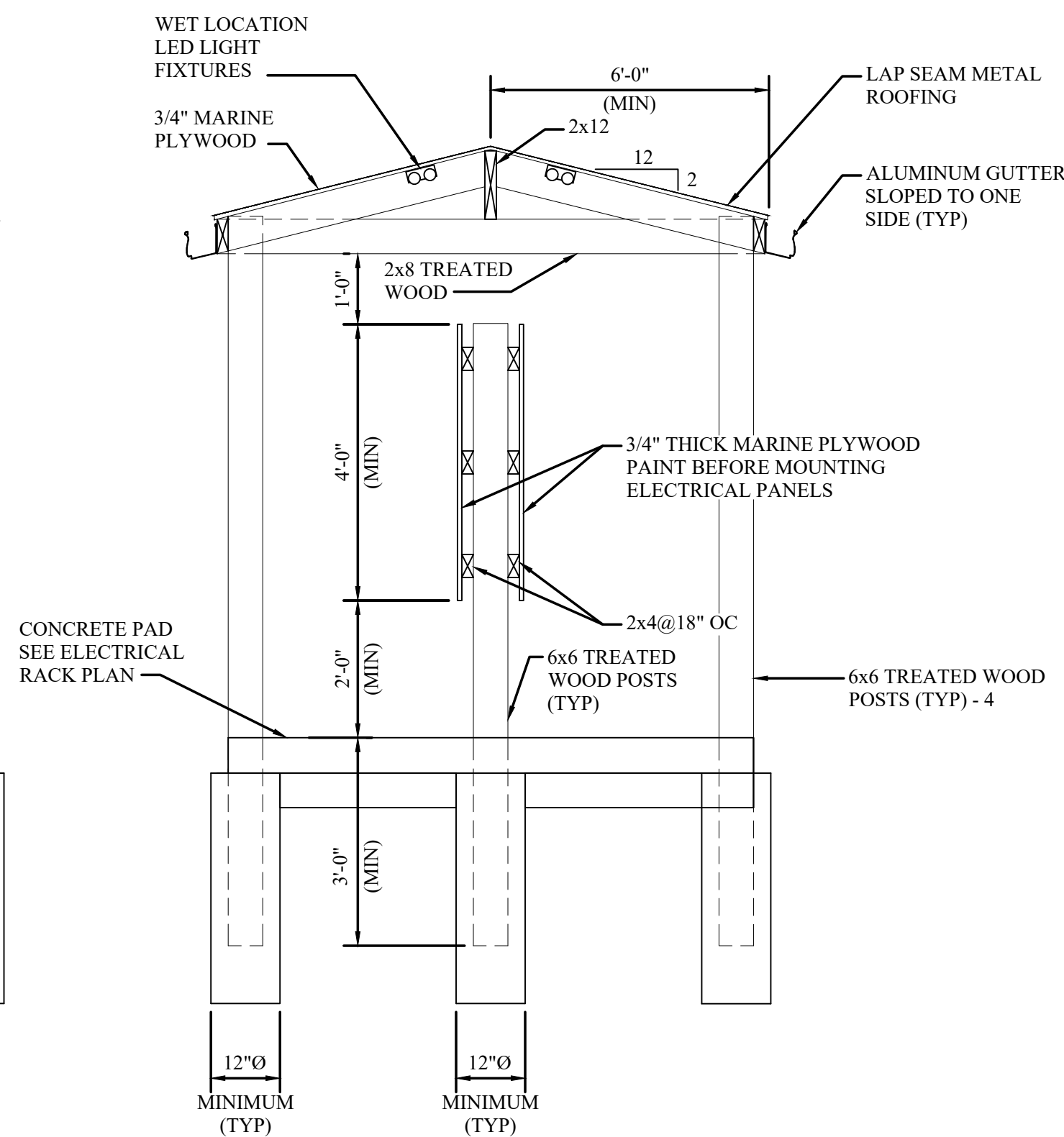
HURT & PROFFITT

SHEET NO. E-102
REV. ---

THIS SHEET IS INTENDED TO BE REPRODUCED AT 1/8" = 1'-0" SCALE. REPRODUCTION OF THIS SHEET AT A DIFFERENT SCALE THAN INTENDED SHALL VOID THE SCALE SHOWN ON THE SHEET.

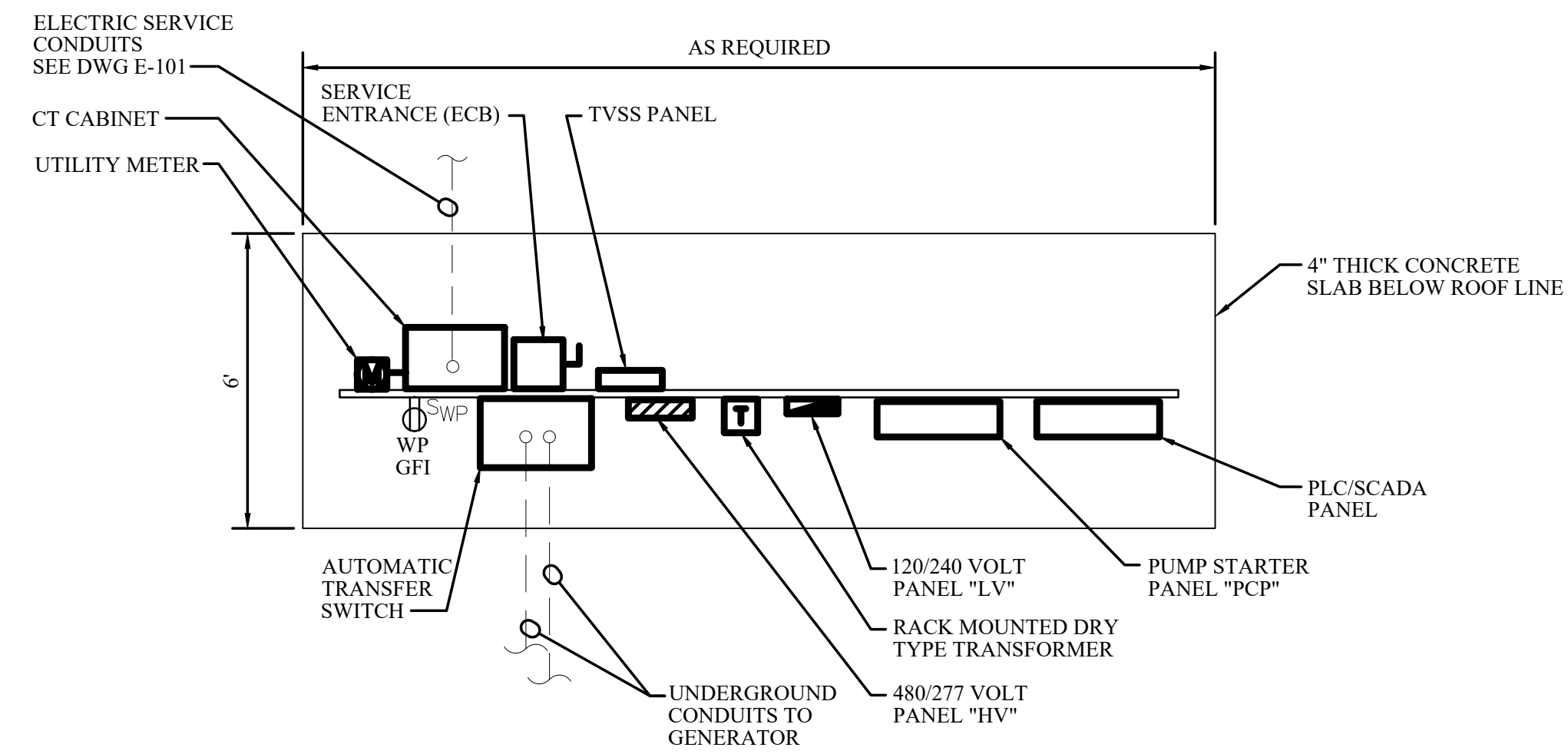


FRONT ELEVATION



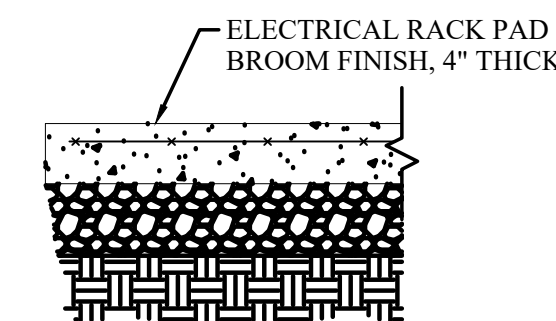
END ELEVATION

A ELECTRICAL SERVICE RACK - ELEVATIONS (BASE BID)
SCALE: NONE

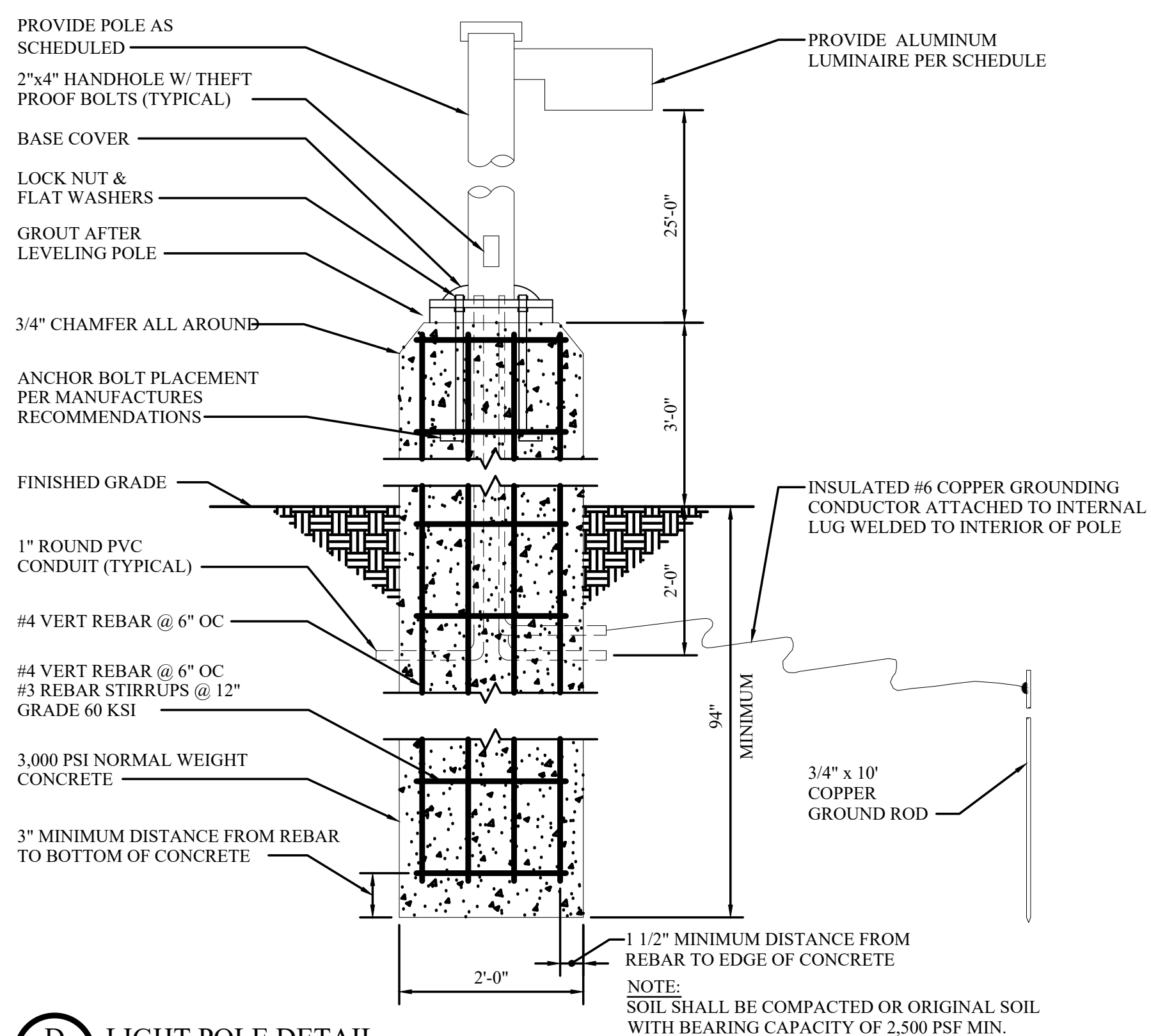


NOTES:
1. ALL ELECTRICAL EQUIPMENT ENCLOSURES ON RACK SHALL BE NEMA 4X RATED UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS.

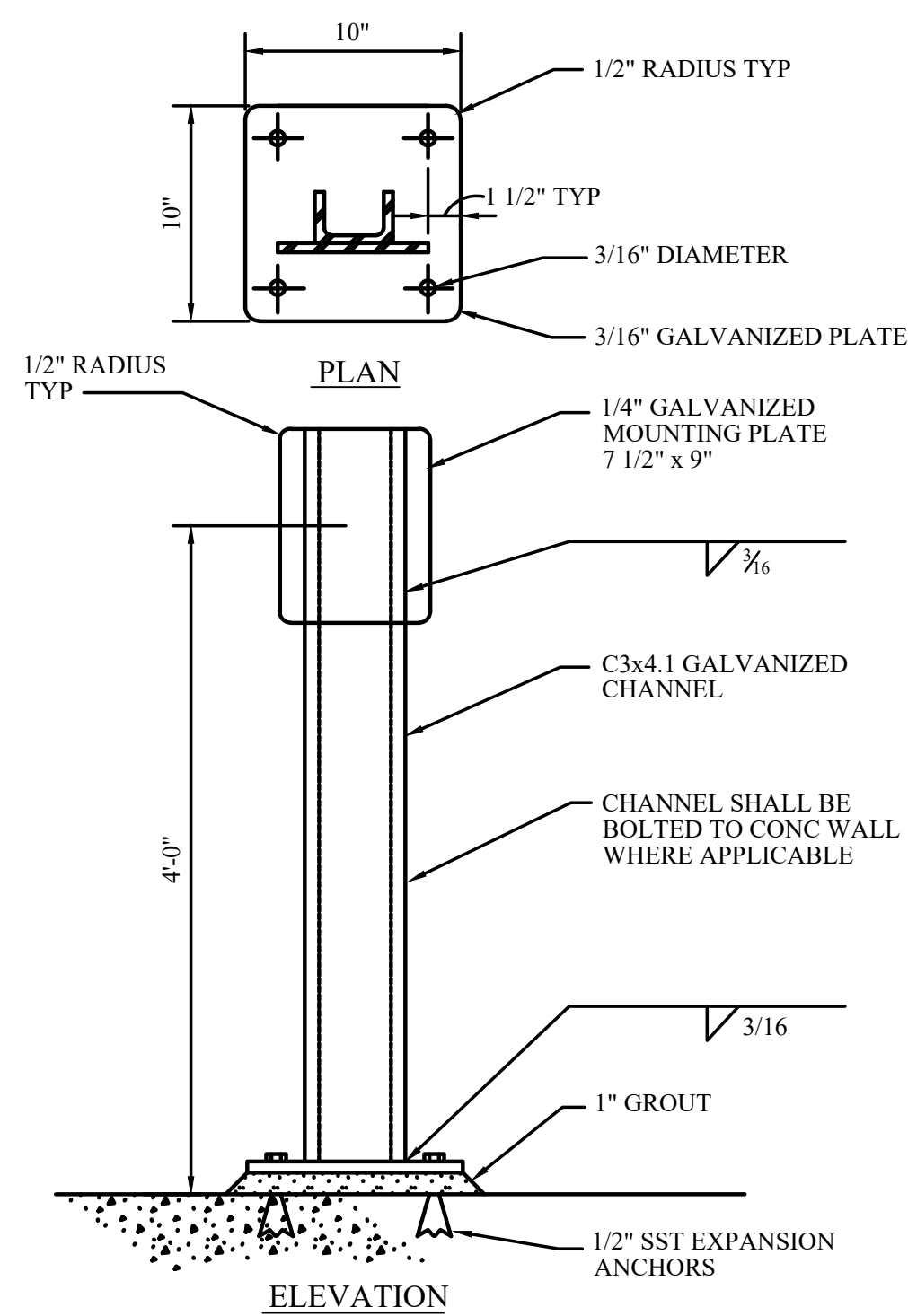
B ELECTRICAL POWER RACK PLAN VIEW - DETAIL
SCALE: NONE



C ELECTRICAL SERVICE RACK - CONCRETE BASE DETAIL
SCALE: NONE



D LIGHT POLE DETAIL
SCALE: NONE

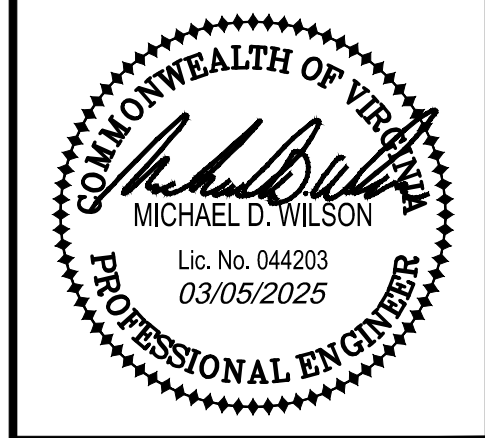


E LOCAL DISCONNECT MOUNTING DETAIL
SCALE: NONE



SITE LIGHTING FIXTURE "SL1"
SCALE: NONE

| | |
|-------------|------------|
| PROJECT NO. | 20230622 |
| LAT. | 37.313701 |
| LONG. | -79.260689 |
| DATE: | 03/05/2025 |
| DRAWN BY: | MSF |
| CHECKED BY: | WKH / MDW |



BID SET

CCUSA # 80-2304