

**ANNE ARUNDEL COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS**

**BROAD CREEK II WATER TREATMENT PLANT
NEW OPERATOR BUILDING
CONTRACT NO. W804010
PROJECT NO. W804000**

ADDENDUM NO. 1

March 21, 2024

To Bidders:

This Addendum No. 1 is hereby made a part of the contract documents on which the contract will be based, and is issued to modify, explain and/or correct the original contract documents. Please attach this Addendum to your contract documents and submit bids and be otherwise governed accordingly. Receipt of this Addendum must be acknowledged on Page A4-3 of the Proposal Form.

CLARIFICATIONS TO THE PROJECT SPECIFICATIONS:

1. ***Table of Contents:*** Revise Table of Contents to INSERT the following:
TOC-2, Division 2: INSERT “02900 CHAIN-LINK FENCE AND GATES”
2. ***Notice to Contractors:*** **REVISE** the bid opening date from “Tuesday April 2” to “Tuesday April 23”.
3. ***Information to Bidders:*** **REVISE** the bid opening date from “Tuesday April 2” to “Tuesday April 23”.
4. ***02900 - CHAIN-LINK FENCE AND GATES:*** INSERT Section 02900 CHAIN-LINK FENCE AND GATES to the Project Manual.
5. ***08511 – ALUMINUM WINDOWS:*** DELETE in section 2.03 B. 1. “Casement: Outswing”
6. ***08511 – ALUMINUM WINDOWS:*** REPLACE in section 2.03 B. 2 “Projected, awning” with Projected, Hopper”
7. ***08511 – ALUMINUM WINDOWS:*** DELETE section 2.03 H. 1. in its entirety.
8. ***09652 – RESILIENT TILE FLOORING:*** INSERT the following after paragraph 2.03:
“2.04 LUXURY VINYL FLOOR TILE

A. Basis-of-Design Product: Subject to compliance with requirements, provide Tarket; I.D. Latitude Stone and Concrete or comparable product by one of the

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following.

1. American Biltrite
2. Congoleum Corporation
3. Armstrong

B. Tile Standard: ASTM F1066, Class III, Type B

C. Wearing Surface: Smooth

D. Thickness: 0.120 inch (3.05 mm)

E. Size: 18 by 18 inches.

F. Colors and Patterns: As chosen by Architect from Manufacturer's full range."

9. **15400 – PLUMBING: INSERT** the following at the end of paragraph 2.04 K.:

"Hose bibs shall be frost proof and self-draining."

10. **15400 – PLUMBING: INSERT** the following at the end of paragraph 2.04 :

"M. Kitchen sink shall be Kohler Verse K-5267-1, with Jolt K-30613 Faucet, or equal. Sink shall be minimum 18-gauge stainless steel, double-equal bowls, single faucet hole, and shall be designed for top mounting. Contractor shall supply all parts and accessories to make the drain connection."

"N. Shower shall be Sterling/Kohler Accord 72270106, or equal center drain shower stall with backerboards, 60" x 36"x 77", with Kohler Triton K-TS910-4A, or equal shower head and valve trim. Shower shall be complete with valve/cartridge kit, drains, brushed stainless steel grab bars, shower rod and shower curtain."

11. **15700 – HEAT PUMP SYSTEM: INSERT** the following after paragraph 2.01 A. 7.:

"8. Support Pad

- a. The heat pump unit shall be supported on a 4" X 48" X 48" poured-in-place concrete slab. Slab top surface shall have a light-broom finish.
- b. The top surface of the concrete slab shall be about 2" above the surrounding ground surface.

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- c. Concrete shall conform to the requirements of Section 03300 Cast-in-Place Concrete.”

CHANGES TO CONTRACT DRAWINGS:

1. **Drawing SWM-01:** Refer to partial revised drawing changing note in Stormwater Management Plan from “PR 10’ CHAIN LINK FENCE” to “PR 7’ CHAIN LINK FENCE”
2. **Drawing M-01:** Refer to partial revised drawing showing 4” flex duct alignment and soffit vents and concrete support slab for heat pump compressor unit.
3. **Drawing C-05:** Refer to partial revised drawing showing 12” concrete mowing strip below chain-link fence.

RESPONSES TO BIDDER QUESTIONS:

1. Exhaust duct for EF-1 and EF-2 appears to be missing. Please provide duct routing.

Response: Exhaust duct for EF-1 and EF-2 will be 4-inch flexible duct vented through soffit similar to what’s shown for EF-3. Drawing M-01 has been revised under this addendum to show duct routing.

2. Please provide BOD information for the shower base and valve / head, and the double bowl sink and faucet.

Response: Basis of Design (BOD) for the shower shall be Sterling/Kohler Accord 72270106 center drain shower stall with backerboards, with Kohler Triton K-TS910-4A shower head and valve. Double bowl sink and faucet shall be Kohler Verse K-5267-1, with Jolt K-30613 Faucet. The specifications have been revised under this addendum with these models.

3. The hose bibs identified in the specs appear not to be freezeproof. Please confirm they do not need to be freezeproof type.

Response: Hose bibs shall be freezeproof. The specifications have been revised under this addendum to require freezeproof hose bibs.

4. Please provide details showing how AHU-1 and HP-1 are to be mounted.

Response: HP-1 (Outside Heat Pump Unit) shall be mounted on a 4” thick concrete slab that extends 8” beyond the outside dimensions of the heat pump unit. AHU-1 is floor mounted and

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shall be mounted per the manufacturer's instructions. The specifications have been revised under this addendum to identify the concrete support slab for HP-1. Drawing M-01 has also been revised to show the concrete support slab.

5. Please provide detail for exhaust duct termination through soffit.

Response: Contractor shall use *Soffit Exhaust Vent* by Everbilt, *EZ-Soffit Vent* by Panasonic, or equal for soffit penetrations from ducts EF-1, EF-2 and EF-3. Soffit penetration fitting shall match the size of the corresponding duct. Drawing M-01 has been revised under this addendum to identify soffit vents.

6. Is low voltage, data/telecom, security under our SOW?

Response: The Contractor shall provide and install the fiber optic ductbank as shown on Drawing E-01. The County will install the fiber optic cables from the "underground vault" (note 4 on Drawing E-01) to the fiber optic pull box installed by the Contractor inside the New Operator Building. No security systems such as video, intrusion or motion sensors are being installed under this contract.

7. Will a finish schedule be provided with specs?

Response: A finish schedule is provided on Drawing A-10

8. Please provide spec on LVT

Response: A specification for the Luxury Vinyl Tile is provided under this addendum.

9. The fencing is 7' on sheet C-05 and 10' on sheet SVWM-01, please clarify

Response: Fencing shall be 7' high to match existing fence. Drawing SWM-01 has been revised under this addendum to change PR10' Chain-Link Fence to PR7' Chain-Link Fence.

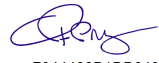
10. Should fencing be galvanized, black vinyl, or other. Please clarify.

Response: Fencing shall be galvanized steel to match existing. A 12" wide X 6" thick concrete mowing strip shall be provided within the limits of the new permanent fencing to match existing. Drawing C-05 has been revised under this addendum to show the concrete mowing strip.

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11. I would like to submit an approved equal/sub request. The request is for the hand dryers with our model, the Speedflow Plus, which is LEED point contributing, is surface-mounted, ADA compliant and includes a HEPA filter media that traps up allergens.

Response: The Engineer will consider acceptance of the Speedflow Plus Hand Dryer as an or equal if submitted during the shop drawing submittal process.

DocuSigned by:

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Christopher P. Murphy P.E., Engineer Administrator

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SECTION 02900 CHAIN-LINK FENCE AND GATES

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This Section includes requirements for providing chain-link fence, gates, and accessories, as indicated herein and as shown on the drawings, to include the tie in to the existing fencing and posts that are to remain in order to provide a completely functional system. Fence fabric shall be galvanized.

1.02 SUBMITTALS

- A. Submit the following shop drawings:
 - 1. Plan layout including spacing of posts and other components, locations of gates, post foundation dimensions, abrupt changes in grade, locations of corner, end and pull posts, hardware anchorage, and schedule of components.
 - 2. Cross sectional dimensions of posts, braces, rails, fittings, gates and accessories.
 - 3. Design of gates and details of gate hardware and accessories.
- B. Product data on fabric, post, fittings, accessories and hardware. Contractor shall take accurate field measurements to confirm existing fence fabric mech opening size and fabric height prior to submission to the Engineer for approval.
- C. Two (2) samples of fence fabric, 12 x 12 inches in size, illustrating construction.

1.03 PROJECT RECORD DOCUMENTS

- A. Submit as-built drawings of the fence and gates.
- B. Accurately record actual locations of perimeter posts relative to property lines.

1.04 PRODUCT DELIVERY, STORAGE AND PROTECTION

- A. Materials shall be delivered to the site in an undamaged condition. Materials shall be carefully stored off the ground to provide proper protection against oxidation caused by ground contact. Defective or damaged materials shall be replaced by the Contractor at no expense to the Owner.

PART 2 - PRODUCTS

2.01 FENCE FABRIC

- A. Fence fabric shall be made from galvanized fabric in accordance with ASTM A392. Fence fabric shall be woven in 2-inch mesh. Contractor shall take accurate field measurements to confirm existing fence fabric mesh opening size prior to submission to the Engineer for approval. Fabric shall be fabricated of 9-gauge wire. Fabric height shall be 7-feet. Contractor shall take accurate field measurements to confirm and match existing fabric height prior to product submission to the Engineer for approval. Fabric shall be knuckled on the top and bottom selvages.

2.02 GATES

- A. Gates shall be the types and sizes as shown on the drawings. Gate frames shall be ASTM 1043 Group 1C pipe with zinc external coating Type B, minimum nominal pipe size (NPS) 1 5/8-inch. Swing gates shall be galvanized steel welded fabrication in accordance with ASTM F900 and horizontal slide gate shall be in accordance with ASTM F1184. Gates shall be same height as fencing.
- B. Swing gate leaves more than 8-feet wide shall have either intermediate members and diagonal truss rods or shall have tubular members as necessary to provide rigid construction, free from sag or twist. Gate leaves less than 8-feet wide shall have truss rods or intermediate braces.
- C. Gate fabric shall be same as specified for fence fabric. Gate fabric shall be attached to the gate frame by method standard with the manufacturer, except that welding will not be permitted.
- D. Latches, hinges, stops, keepers, rollers, and other hardware items shall be furnished as required for the operation of the gates. Latches shall be arranged for padlocking so that the padlocks will be accessible from both sides of the gates. Stops shall be provided for holding the gates in the open position.

2.03 POSTS

- A. Posts shall be zinc-coated Group 1C steel pipe conforming to the requirements of ASTM F1043 and F1083. Minimum sizes shall be as shown on the drawings. Line posts and terminal (corner, gate, and pull) posts selected shall be of the same designation throughout the fence. Gate posts shall be for the gate type indicated to the limitations specified in ASTM F900 and ASTM F1184, with minimum NPS of 2 1/2-inch for line posts, 3-inch for terminal posts, and 4-inch for gate posts.

2.04 BRACES AND RAILS

- A. Braces and top rails shall be zinc coated Group IC steel pipe minimum NPS 1 5/8-inch conforming to the requirements of ASTM F1043.

2.05 WIRE

- A. Tension wire shall be 0.177-inch diameter, Type II, Class 2 coating, in accordance with ASTM A824.

2.06 ACCESSORIES

- A. All accessories shall be in accordance with ASTM F626. Ferrous accessories shall be zinc-coated with minimum thickness of 0.006-inch and maximum thickness of 0.015-inch.
- B. Tension and brace bands shall be galvanized pressed steel complying with ASTM F626, minimum steel thickness of 12 gauge, minimum width of 3/4 inch and minimum zinc coating of 1.20 oz/ft².
- C. Truss rods shall be furnished for each terminal post. Truss rods shall be provided with turnbuckles or other equivalent provisions for adjustment. Truss rods shall be minimum 3/8-inch diameter steel with a minimum zinc coating of 1.2 oz/ft², assembly capable of withstanding a minimum tension of 2,000 lbs.
- D. Tension bars shall be galvanized steel with minimum zinc coating of 1.2 oz/ft². Bars for 2 inch mesh shall be a minimum cross section of 3/16 inch by 3/4 inch.
- E. Tie wire for attaching fabric to rails, braces, and posts shall be 9-gauge steel wire and match the coating of the fence fabric.
- F. Miscellaneous hardware coatings shall conform to ASTM A153 unless modified.
- G. Barbed wire arms shall be corrosion-resistant, with clips, slots, or other means for attaching strands of barbed wire, and means for attaching to posts or integral with post cap; for each post. Line posts shall have arms that accommodate top rail or tension wire. Fence corner posts shall have corner arms. Barbed wire arms shall be Type I, single slanted arm.

2.07 BARBED WIRE

- A. Zinc-coated steel barbed wire shall be in accordance with ASTM A121, chain-link fence grade for standard three-strand barbed wire. Barbed wire shall consist of 0.099-inch diameter line wire with 0.080-inch diameter, 4-point round barbs spaced not more than 5-inches on center.

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PART 3 - EXECUTION

3.01 INSTALLATION

- A. Fence shall be installed to the lines and grades indicated. Line posts shall be spaced equidistant at intervals not exceeding 10 feet. Terminal (corner, gate, and pull) posts shall be set at abrupt changes in vertical and horizontal alignment. Fabric shall be continuous between terminal posts; however, runs between terminal posts shall not exceed 500 feet. Any damage to galvanized surfaces, including welding, shall be repaired with paint containing zinc dust in accordance with ASTM A780.

3.02 EXCAVATION

- A. Post holes shall be cleared of loose material. Waste material shall be disposed of by the Contractor. Ground surface irregularities along the fence line shall be eliminated to the extent necessary to maintain no clearance between the bottom of the fence fabric and finish grade.

3.03 POSTS

- A. Posts shall be set plumb and in alignment. Posts shall be set in concrete to the depth indicated on the Contract Drawings. Hole diameters shall be not less than 16-inches for terminal posts and not less than 12-inches for line posts. Concrete and grout shall be thoroughly consolidated around each post, shall be free of voids and finished to form a dome. Concrete and grout shall be allowed to cure a minimum of seventy-two (72) hours prior to attachment of any item to the posts.

3.04 RAILS, TENSION WIRE, BRACES AND TRUSS RODS

- A. Top rails shall be supported at each post to form a continuous brace between terminal posts. Where required, sections of top rail shall be joined using sleeves or couplings that will allow expansion or contraction of the rail.
- B. Tension wire shall be installed in accordance with ASTM F567, maintaining plumb position and alignment of fencing. Pull wire taut, without sags. Fasten fabric to tension wire with 0.120-inch diameter hog rings of same material and finish as fabric wire, spaced a maximum of 24 inches o.c. Install bottom tension wire within 6 inches of bottom of fabric and tie to each post with not less than same diameter and type of wire.
- C. Braces and truss rods shall be installed as indicated and in conformance with the standard practice for the fence furnished. Horizontal compression braces and diagonal tension truss rods shall be installed. Braces and truss rods shall extend from terminal posts to line posts. Diagonal braces shall form an angle of

approximately 40 to 50 degrees with the horizontal.

3.05 FABRIC

- A. Chain-link fabric shall be installed on the side of the post indicated. Fabric shall be attached to terminal posts with stretcher bars and tension bands. Bands shall be spaced at approximately 15-inch intervals. The fabric shall be installed and pulled taut to provide a smooth and uniform appearance free from sag, without permanently distorting the fabric diamond or reducing the fabric height. Fabric shall be fastened to line posts at approximately 15-inch intervals and fastened to all rails and tension wires at approximately 12-inch intervals. Fabric shall be cut by untwisting and removing pickets. Splicing shall be accomplished by weaving a single picket into the ends of the rolls to be joined. The bottom of the installed fabric shall be to the finished grade, but not more than 2-inch above the ground.

3.06 GATES

- A. Gates shall be installed at the locations shown on the drawings. Hinged gates shall be mounted to swing as indicated. Latches, stops, and keepers shall be installed as required. Hinge pins, and hardware shall be welded or otherwise secured to prevent removal. Slide gate shall be installed in accordance with ASTM F1184, and as recommended by the manufacturer.

3.07 EXISTING FENCE AND MESH

- A. Take extreme caution to not damage the existing fence, to include all posts and mesh to remain in order to tie in the new fence mesh and all other necessary fence components to the nearest fence post to the 100-year floodplain line on the property (and outside of the 100-year floodplain) as shown on the drawings. This would include the nearest fence post near Property Corner Coordinate 8 and the nearest fence post nearest Control Coordinate 1029 and not within the 100-year floodplain.
- B. Provide all components as necessary to complete the fence tie in so that there is no gap in the fencing between the existing and new fence and mesh. Ensure existing fence is securely fastened to the existing post to remain.

3.08 ERECTION TOLERANCES

- A. Maximum Variation from Plumb: 1/4-inch.
- B. Maximum Offset from True Position: 1-inch.

3.09 GROUNDING

- A. Install fence grounding at maximum intervals of 750-feet by driving a grounding rod

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vertically until the top is 6-inches below finished grade. Connect rod to fence with No. 6 AWG conductor. Connect conductor to each fence component at the grounding location. Ground fence on each side of gate openings. Bond metal gates to gate posts using No. 2 AWG wire and bury it at least 18-inches below finished grade. Connect bonding jumper between gate post and gate frame. Make connections so possibility of galvanic action or electrolysis is minimized.

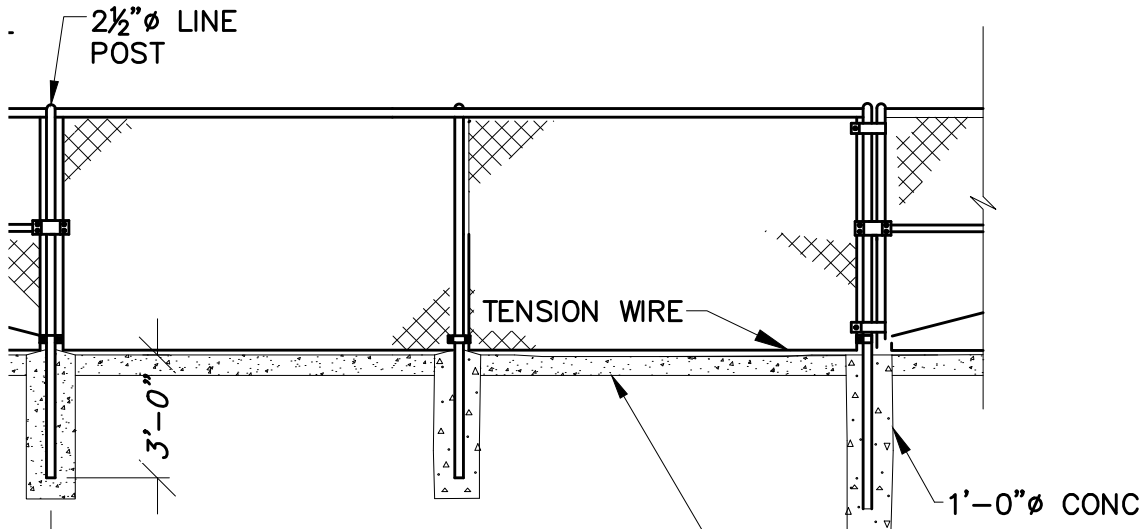
3.10 BARBED WIRE

- A. Install barbed wire uniformly spaced and angle outward. Pull wire taut and install securely to extension arms and secure to end post or terminal arms.

3.11 ADJUSTING AND DEMONSTRATION

- A. Adjust gate to operate smoothly, easily, and quietly, free of binding, warping, excessive deflection, distortion, non-alignment, misplacement, disruption, or malfunction, throughout the entire operating range. Confirm that latches and locks engage accurately and securely without forcing or binding.
- B. Lubricate hardware and other moving parts.

END OF SECTION 02900



A
C-03 CHAIN-LINK FENCE DETAIL
NTS

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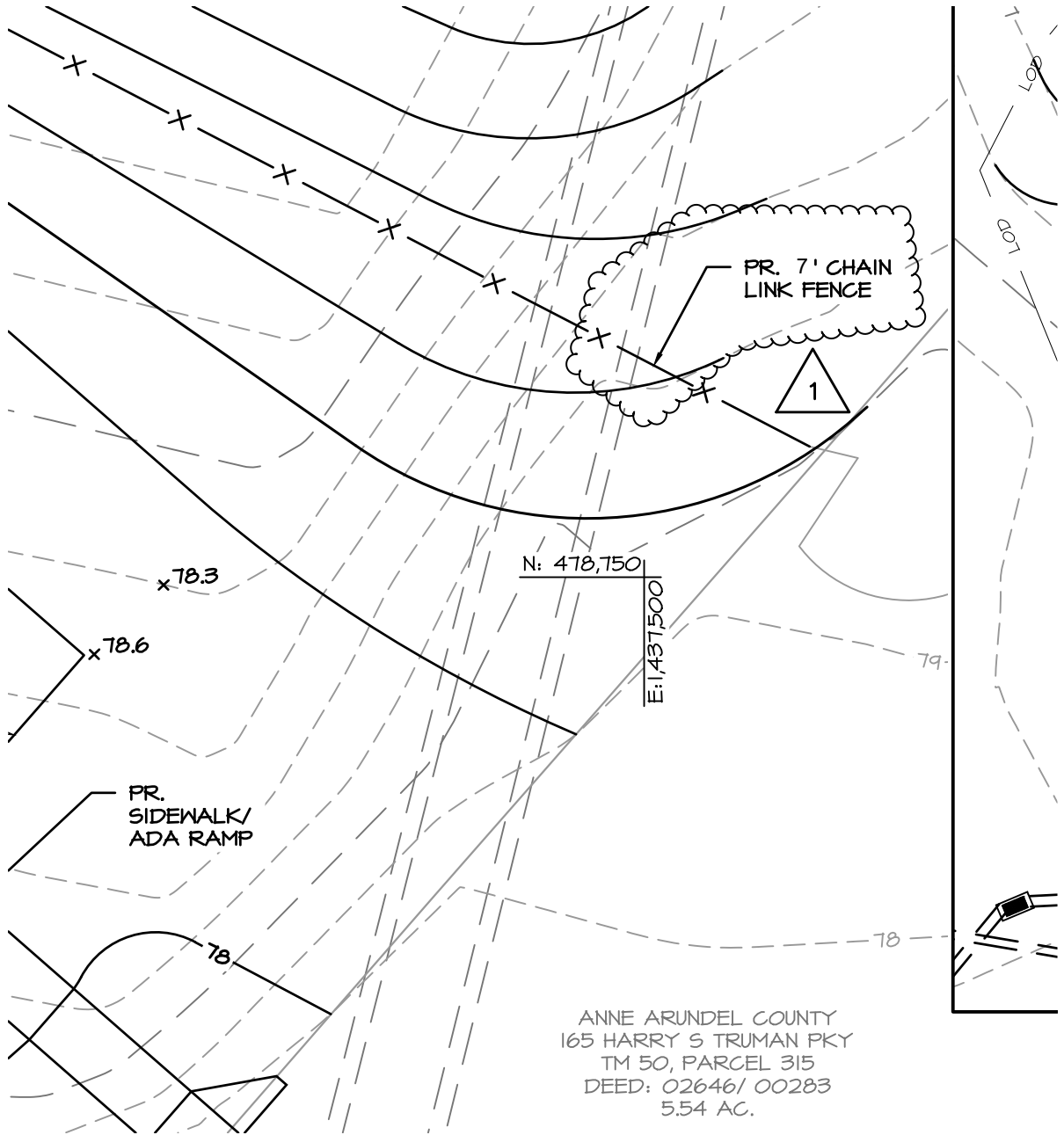
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DWG.: C-05 (SHT. 8 of 36)

DATE: 03/22/2024

SCALE: AS SHOWN



STORMWATER MANAGEMENT PLAN

SCALE: 1" = 10'



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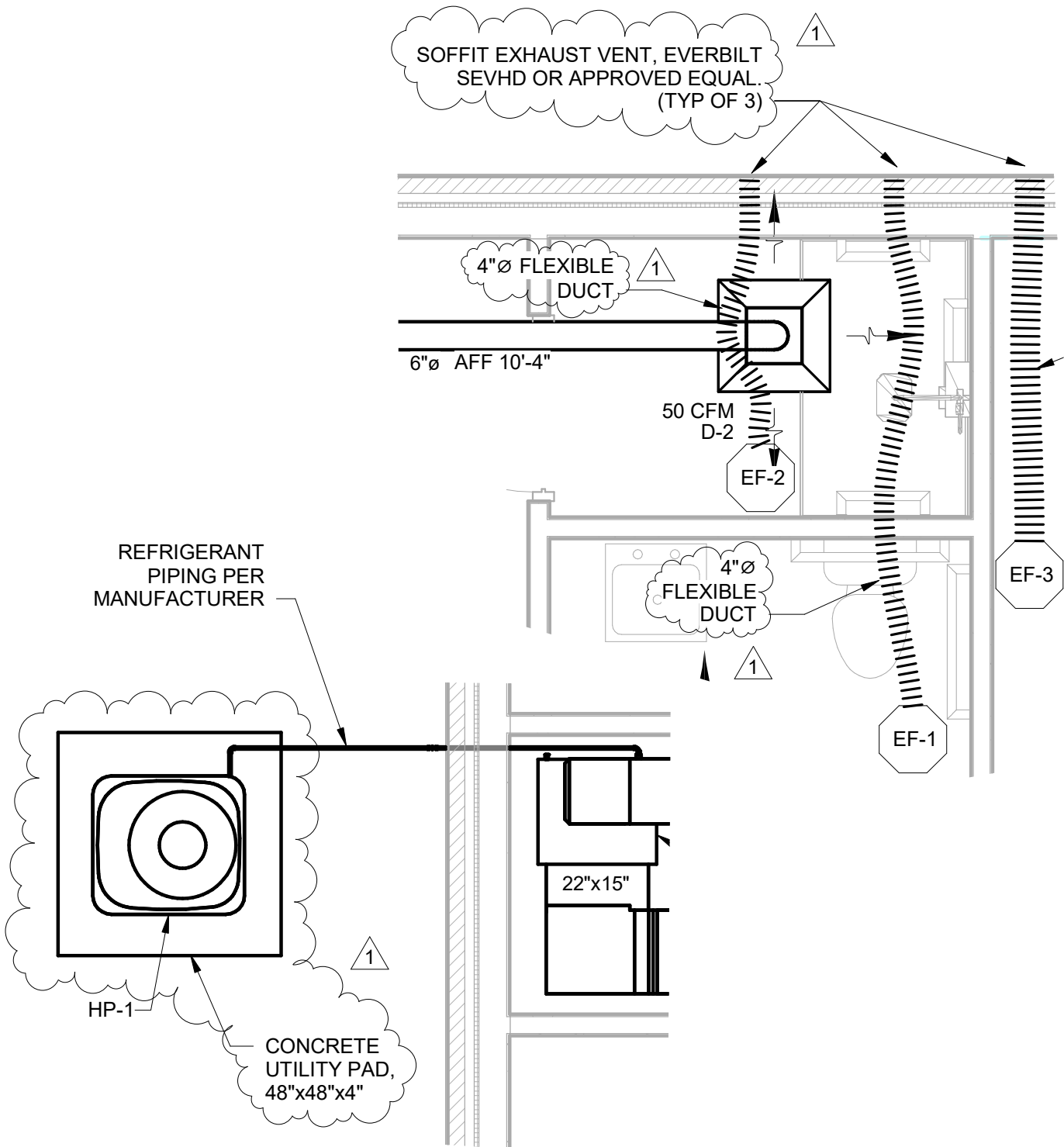
CONTRACT NO.: W804010

DATE: 03/22/2024

ADDENDUM NO.: 1

DWG.: SWM-01 (SHT. 10 of 36)

SCALE: AS SHOWN



HVAC PLAN

SCALE: 3/8" = 1'-0"



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PROJECT NO.: W804000

ADDENDUM NO.: 1

CONTRACT NO.: W804010

DWG.: M-01 (SHT. 32 of 36)

DATE: 03/22/2024

SCALE: AS SHOWN