

Bid Addendum

Addendum No. 1 for Augusta Water Middle River Regional WWTP Secondary Clarifier No. 3 Grout Topping Replacement, Wiley|Wilson Comm. No. 222110.10.

Addendum Date: February 6, 2024
To: All Bidding Contractors
From: Wiley|Wilson
Lynchburg, VA

This Addendum contains 4 pages and listed attachments and forms a part of the bidding documents and modifies the Project Manual dated February 5, 2024 and Drawings dated November 1, 2022, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject bidder to disqualification.

CLARIFICATIONS

1. Pictures of the clarifier with the existing group topping in a dewatered condition are attached. This is for informational purposes only and is not a part of the bid documents.
2. Products identified on the Drawings are considered Basis of Design products. Requests to approve "or equal" products will be considered based on the requirements of Specification 01 60 00 Product Requirements.
3. AW will wash down the clarifiers as much as practicable. It is anticipated that they will be turned over the Contractor in a state similar to the pictures attached to this addendum.
4. The Contractor must dispose of wash water by providing pumping equipment to convey wash water to the RAS pump station. The RAS pump station has a maximum capacity of 400 gpm.
5. This project does not have a disturbed area, and therefore is not required to have an E&S plan or SWPPP. In accordance with applicable regulations, the Contractor must provide E&S measures required for the project including but not limited to a concrete washout station, and site restoration and seeding of temporarily disturbed areas. Erosion and Sediment control measures and stabilization shall be in accordance with the requirements of Augusta County Ordinance and State Requirements.
6. The Contractor must follow all OSHA/VOSH requirements, provided trained personnel, and demonstrate that they are meeting the regulatory requirements. A copy of the AW Safety Program, which includes the Confined Space Program, is available at the link below. The AW will enforce its safety requirements as outlined in the program. The Contractor is ultimately responsible for their employees and subcontractors. Accordingly, the contractor must make a determination of whether the clarifier tank is a permit required confined space or non-permit required confined space compliant with OSHA/VOSH requirements and the AW Safety Program. Based on the configuration of the work area (open top storage tank) the Contractor will likely need to provide continuous ventilation

and monitoring of the clarifier (alternate entry) unless the Contractor demonstrates that they are meeting the OSHA/VOSH requirements for the work area in an alternative manner.

<https://www.AWwater.com/system/files/files/AW%20Safety%20Manual%20-%20January%202021.pdf>

7. The existing grout topping slab contains 3/6 in. x 1-3/4 in. 410 Stainless Steel Tapcon concrete anchors spaced at approximately 5 feet throughout the grout topping slab. At the time of existing grout topping installation, the tapcon concrete anchors were screwed into the underlying concrete slab and extend approximately 1-inch to 1/2-inches into the existing grout topping slab.
8. It is acceptable to utilize 3/4-inch or 1-inch flexible boards or plywood sheets as screed boards to match the curvature of the existing rakes in lieu of 2x4 finished lumber referenced in Note 9 Drawing S-001.
9. The original grout topping slab was removed in June 2023. It had an approximate slope of 12:1 as shown on Drawing S-501 and matched the slope of the existing rakes. The existing grout topping slab does not match the slope of the existing rakes. The grout topping slab must be installed to match the slope of the existing rakes.
10. Existing clarifier squeegees have been removed. Augusta Water will furnish clarifier squeegees of appropriate length for a minimum 2-inch thickness grout topping slab that matches the slope angle of the existing rake arms. Contractor must install squeegees as owner furnished equipment for installation by Contractor.
11. Following demolition of original grout topping in June 2023, no crack or spall defects were observed in the underlying concrete slab and no repairs were made. Remove Detail 2 Concrete Crack Repair and Detail 3 Spall Repair on Drawing S-501 from the scope of work.

QUESTIONS FROM BIDDERS

Question 1: Note D.9 on drawings sheet S-001 indicates that the "... rakes around the tank using an external drive..." Can the contractor assume that the external drive that is currently mounted to the clarifier equipment can be used to advance the rakes when sweeping the grout?

Response: It is acceptable to use the existing clarifier mechanism. The Contractor must ensure that the mechanism is not over-torqued and is responsible for all damage to the mechanism.

Question 2: Note E on drawing sheet S-001 discuss the projects needs for special inspections. I am assuming that Wiley Wilson will be the special inspector for this project. Or is it the intent that the contractor will need to carry the cost for a 3rd part special inspector?

Response: Third party special inspections will be provided by the Owner.

Question 3: The drawings currently do not provide a detail for the transition. Would you please provide a transition repair detail for the perimeter?

Response: See attached SSK-01 for detailed procedure to seal the topping slab at the existing outside wall interface and prevent infiltration.

Question 4: Are there any other transitions details for the perimeter around the equipment at the

center of the clarifier?

Response: Drawing S-001 Note D.5 states to form up the pits and pour to form. Contractor must ensure bonding to the edge to prevent infiltration.

Question 5: Section C.2 Concrete Topping references a maximum w/c ratio of .45. A 4500psi small stone mix will typically be between a .40 and .42 w/c ratio. Is this acceptable?

Response: Yes, concrete design mixes with a w/c ratio lower than the 0.45 are acceptable. Contractor must ensure that the proposed mix is workable to properly finish given the thickness of the application.

Question 6: Section C.2 Concrete Topping references a 7.5% air content plus or minus 1.5%. We design for 6% plus or minus 1.5%. A 9% air could result in lower compressive strength. Is 6% target air acceptable?

Response: Contractor must follow the specified air requirements in the design documents. This range is based on ACI 318 table 19.3.3.1 with an F2 exposure class and 3/8" diameter aggregate. The compressive strength of the concrete is not needed for strength purposes on this project, only durability.

Question 7: Section C.2 Concrete Topping references the use of Type II Portland Cement. Type II or I/II Portland Cement is no longer available in our region. We have switched to Type 1L. Is this acceptable?

Response: Yes, it is acceptable to use Type IL ASTM C595 cement in lieu of Type II ASTM C150 cement.

Question 8: Is there max weight allowable on walkway above tank?

Response: AW has not designated a maximum allowable weight for the walkway. It is assumed to be designed as an access platform. Contractor must perform a structural evaluation if loads will exceed typical access platform code required loading.

Question 9: There is a note in the documents that indicate potable water will not be available, but that there are places that the contractor can connect and attach backflow and meters. Can you please confirm potable water connections will be available and how far away from the clarifier these connections will be located? Potable water is an important part of the quality execution of this project.

Response: Non-potable water is available. Refer to Addendum 2. Potable water is available near the Carbon Source Facility identified on Drawing C-01 included in Addendum 2. Potable water is available in accordance with Augusta County Service Authority Policy 5.1 Water and/or Sewer Connections and Policy 18.8 Rules and Regulations: Cross Connection Control and Backflow Prevention. Fees for potable water use and equipment will be waived.

Question 10: Is a 50GPM water source available on site?

Response: Yes, at least 700 gpm of plant effluent (non-potable) water is available at a typical pressure of 80 PSI.

Question 11: Can Vac Truck access 360 Deg of sidewalk?

Response: Refer to attached C-01 record drawing site plan. Access is approximately limited to 270 degrees.

Question 12: Is there a laydown area that could be turned into a dump pit for hydro demo heavy aggregate picked up with vac truck?

Response: Laydown areas are available on the plant site and adjacent areas outside the plant

site. The Contractor must provide a slurry containment system and E&SC measures for a dump pit.

Question 13: Can heavy aggregate generated by hydro demo be buried on site? Or should it be hauled to concrete disposal yard?

Response: Contractor must dispose of concrete demolition waste, regardless of form, off-site.

Question 14: Where can hydro demo slurry water be pumped? How far is the run?

Response: Slurry water may be pumped to the plant influent pump stations (Verona or Middle River Pump Station) or Grit Removal if it contains grit or the RAS pump station. Refer to attached C-01 plant site plan. Hydro demo slurry water **must** conform the AW's Rules and Regulations for Wastewater Discharge including local limits available at <https://www.augustawater.com/standards>.

Attachments

1. Clarifier Photos (5 photos)
2. Site Plan Record Drawing C-01 (1 page)
3. Sketch SSK-01 (1 page)

End of Addendum No. 1

Wiley|Wilson



Aaron Tice, P.E.

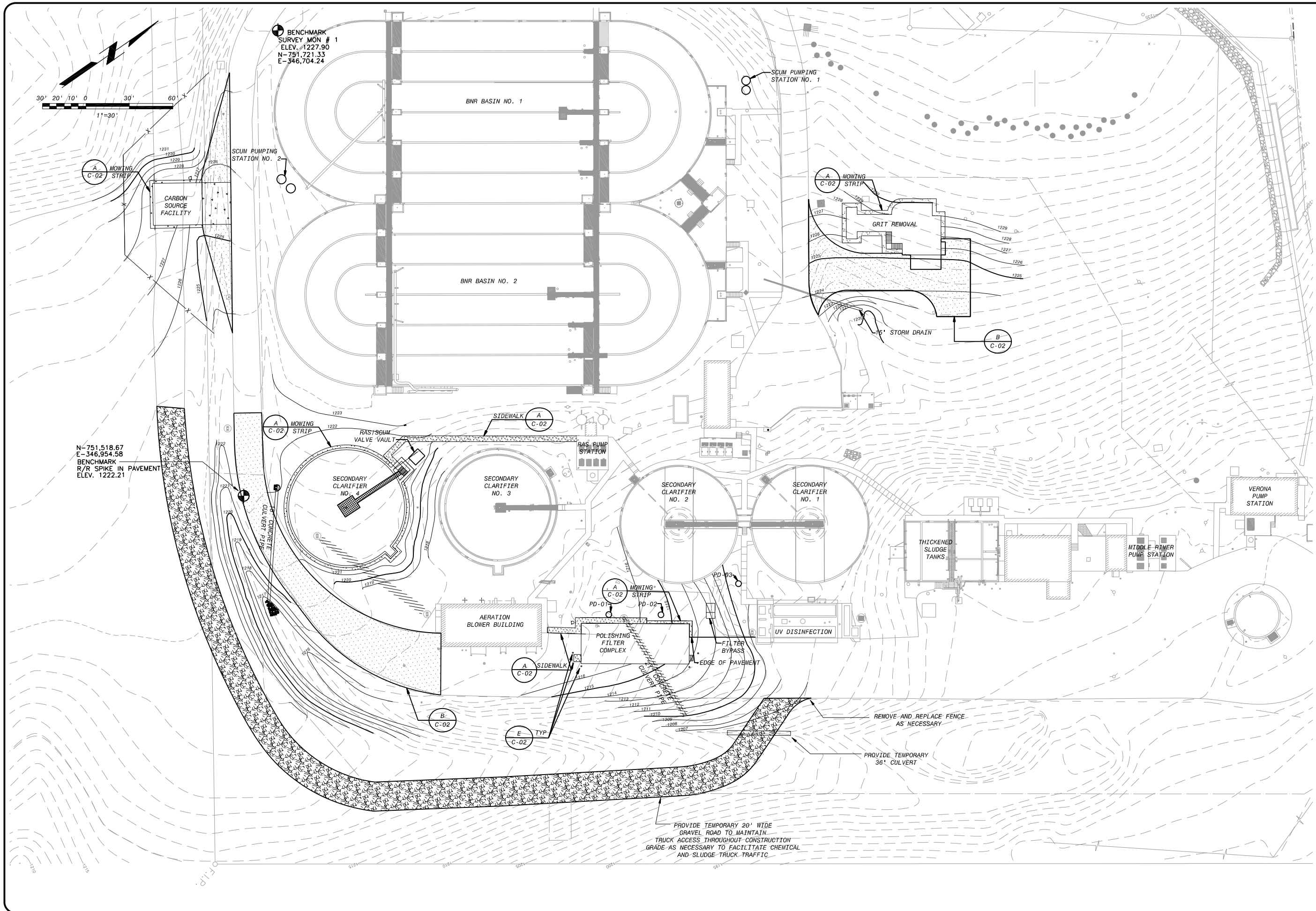












| DATE | REVISIONS AND RECORD OF ISSUE | NO. | BY | CHK | APP |
|------|-------------------------------|-----|----|-----|-----|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

C:\NET ID: 142230MR-UR-C-70000\JAW
 WF: C-01.dwg
 XREF1: SITE.PDF.dwg
 XREF2: SITE.PDF.dwg
 XREF3: PROP.SITE.dwg
 XREF4:
 XREF5:
 USER: GAG52866
 DWG VER: 5.1
 XREFS:

THIS DRAWING WAS
 ORIGINALLY APPROVED
 FOR CONSTRUCTION AND
 SEALED ON
 AUGUST 7, 2007 BY
 K. MICHAEL HANNA,
 PROFESSIONAL
 ENGINEER IN THE
 COMMONWEALTH
 OF VIRGINIA
 L.L.C. NO. 030881


BLACK & VEATCH
 Black & Veatch Corporation
 Gaithersburg, Maryland

ACSA/CITY OF STAUNTON
MIDDLE RIVER WASTEWATER TREATMENT FACILITY
ENHANCED NUTRIENT REMOVAL UPGRADE
 CIVIL/SITING
 SITE AND GRADING PLAN

| | |
|-----------|------------|
| DESIGNED: | KMH |
| DETAILED: | MAG |
| CHECKED: | DWW |
| APPROVED: | KMH |
| DATE: | 07/30/2007 |

0 1/2 1
 IF THIS BAR DOES NOT
 MEASURE 1" THEN DRAWING IS
 NOT TO FULL SCALE

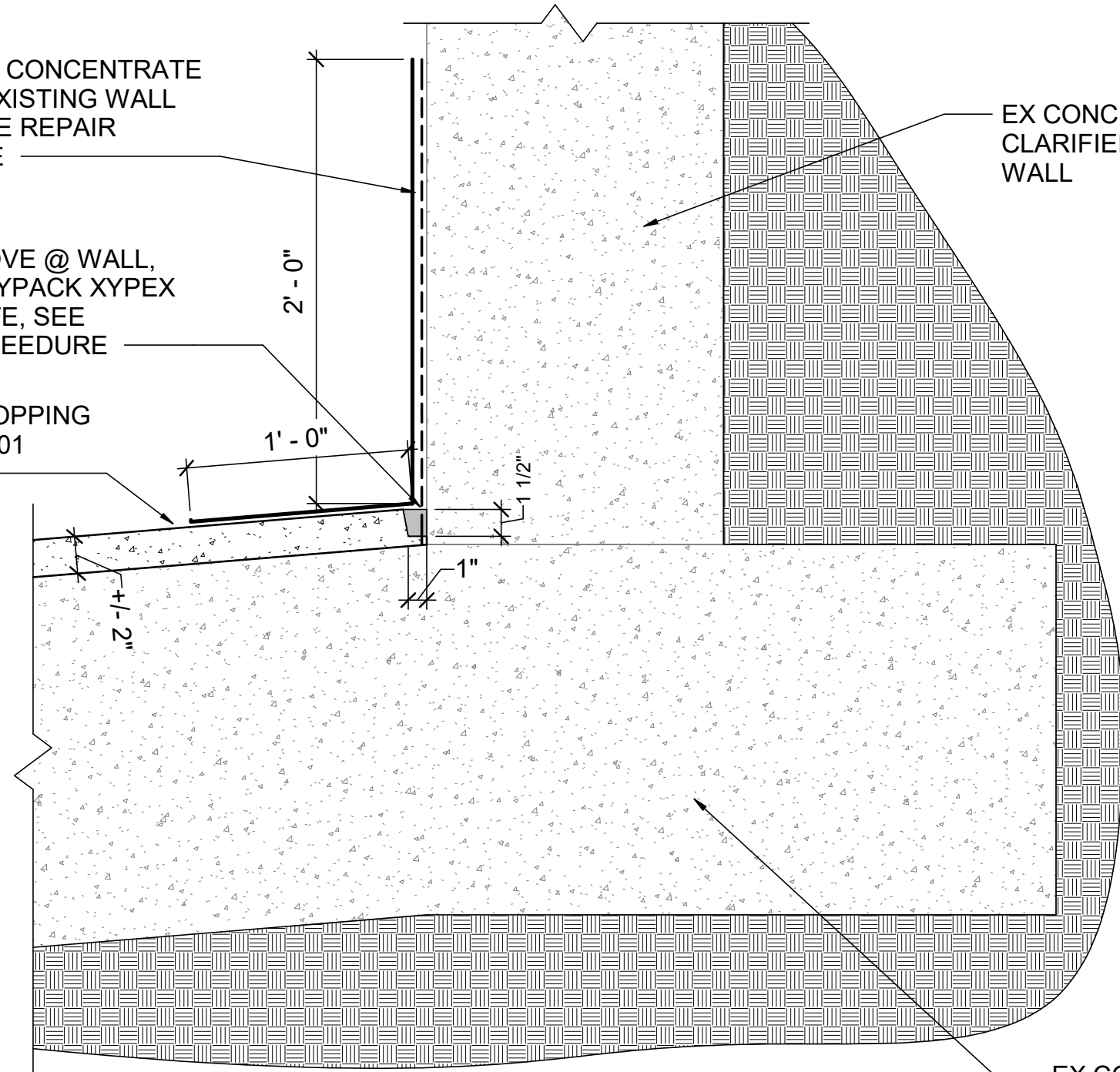
PROJECT NO.
142230MR
C-01
 SHEET
 8 OF 141

F:\142230MR
 00283

APPLY XYPEX CONCENTRATE SLURRY TO EXISTING WALL SURFACE, SEE REPAIR PROCEEDURE

LINEAR GROOVE @ WALL, FILLED W/ DRYPACK XYPEX CONCENTRATE, SEE REPAIR PROCEEDURE

CONCRETE TOPPING SLAB PER S-001 SECTION C



EX CONC CLARIFIER WALL

EX CONC CLARIFIER BASE SLAB

REPAIR PROCEEDURE NOTES:

1. APPLY XYPEX CONCENTRATE SLURRY TO EXISTING WALL SURFACE @ RATE OF 2.0 LB/SQ YARD.
2. FORM LINEAR GROOVE @ WALL PER DETAIL.
3. POUR CONCRETE TOPPING SLAB PER S-001 NOTES SECTION C.
4. CLEAN LINEAR GROOVE THOROUGHLY AND APPLY XYPEX CONCENTRATE SLURRY TO GROOVE AT RATE OF 1.5 LB/SQ YARD.
5. FILL LINEAR GROOVE WITH XYPEX CONCENTRATE DRY-PAC AND PACK TIGHTLY TO CREATE SEALING STRIP.
6. APPLY XYPEX CONCENTRATE SLURRY @ 1.5 LB/SQ YARD OVER SEALING STRIP AND HORIZONTALLY OVER THE TOPPING SLAB AND UP THE EXISTING CONCRETE WALL AS SHOWN ON SKETCH.
7. CURE FOR 48 TO 72 HOURS IN ACCORDANCE WITH NORMAL XYPEX COATINGS CURING PROCEDURES.

PROJECT **ACSA MIDDLE RIVER WWTP**
SECONDARY CLARIFIER NO. 3 REPAIR

TITLE
DETAIL VIEW - TOPPING SLAB WALL INTERFACE

COMM. NO. 222110

| | |
|--------------|----------------|
| DRAWN NKT | CHECKED AST |
|--------------|----------------|

SKETCH NO.

SSK-01

DWG. REFERENCE NO.
S-501

| | |
|-------------------|------|
| DATE: 01/13/23 | REV. |
|-------------------|------|

4

DETAIL - WALL TRANSITION

NOT TO SCALE