

**ALABAMA WATER UTILITIES  
NORTH SHELBY WRRF  
2023 FILTER IMPROVEMENTS (Project No. P-000471.C)**

**ADDENDUM TO THE PLANS AND SPECIFICATION-CONTRACTUAL DOCUMENTS**

**ADDENDUM NO. 1**

**TO: ALL PROSPECTIVE CONTRACTORS AND SUPPLIERS**

The changes, modifications, clarifications, and/or additions covered by and set forth in this **Addendum No. 1** shall become part of and be incorporated into the Specifications, Contract Documents, Bid Documents, and Plans for the above referenced project. The Contractor shall include this Addendum, as well as any previous and subsequent addenda that may be issued, with his proposal Bid Documents as indicating his receipt and acceptance of its terms, requirements, and clarifications.

The Contractor shall also acknowledge receipt of this addendum on Bid Form for Construction Contract C-410 of the Specifications-Contractual Documents.

**INVITATION FOR BIDS:**

1. The **bid date** for this project has been changed to Thursday, August 17, 2023, at 2:00 p.m. CT, the prevailing time.

**SPECIFICATIONS:**

Page E-20:

Add the following to the end of 2.02 D:

In addition to the flange around the interior perimeter, the filter manufacturer shall provide appropriate holes in top flange of the tanks to allow for and facilitate the future installation of a cover system offered by the filter manufacturer.

Page E-25:

Add the following to the end of 2.09 J:

Only one Backwash Recycle connection is shown on the drawings. The filter manufacturer shall provide a second connection at the opposite end of each filter tank in a corresponding location. The second location shall be determined prior to making the submittal and shall be compatible with the location of the backwash piping and fittings necessary between the piping and the filter tank. The second

connection shall not be initially utilized and the filter manufacturer shall install a blind flange on the opening.

Page E-26:

Replace Paragraph A with the following:

A. Backwash Valves and Provision (including controls) for Additional Future Backwash Valves:

Each filter shall include five (5) 2" (minimum) backwash valves. Valves shall be 3 piece, grooved end, ASTM A351 Grade CF8M stainless steel body, 316 stainless steel ball and stem, fullport, installed with painted cast iron Victaulic couplings, with a 115 volt, single phase, 60 Hz, open / close service electric actuator. Valve / actuator combination shall be TCI / RCI (RCI, a division of Rotork), Nibco, or equal. Valve actuator shall include a compartment heater and limit switch feedback to the microprocessor in both the open and closed positions.

The tanks and backwash suction manifold shall have piping stubbed out for two future valves to serve four more filter disks to be installed in the future. The stubbed out piping shall be sealed by the filter manufacturer in a manner to securely prevent leaking or dislodgement of the seal until and if the future valves are added. Therefore the sealing method installed by the filter manufacturer shall be suitable for permanent use but easily removed if the future disks are added. The filter manufacturer shall extend empty aluminum conduits from the filter termination junction box to the location of the future valves to facilitate the future installation of the wiring and the provision of power to those future valves. The filter ends of the conduits shall be suitably and temporarily closed by the filter manufacturer. The filter control panel shall incorporate all the provisions for the future filters but provide a means to disable the future valves until they are added. Once added, the operators shall be able to easily activate the controls and logic for the new valves. The filter manufacturer shall be responsible for designing and providing the appropriate piping and devices, etc. to allow the normal use of the filters both before and after the installation of the future disks.

Page E-36:

In 2.42. A. replace the requirement for an Allen Bradley PanelView Plus 6 1000 with Allen Bradley PanelView Plus 7.

Add the following to the end of 2.42 A:

The sun shield for the screen shall be functionally equivalent to the Smith and Loveless Shade Aide stainless steel sun shield and shall provide effective shading that allows the operator to easily read the screen when the sun shield is open. The sun shield shall provide both top and side shielding and shall have provision to stay open without being held by an operator.

Add the following sentences to the end of 2.44 A regarding PFAS:

The notification regarding PFAS shall be made during the submittal phase of the project. The notification shall be based on the information that the filter manufacturer has and to the best of the filter manufacturer's ability.

Page E-49:

In the second full paragraph on this page (the third paragraph of 2.05 A), replace the step height references to "15 inches" with "approximately 15 inches". It is desired for the step height to be as low as practical to make it easier for the operator to step up onto the bridge.

Page E-65:

Add the following to the end of paragraph 3.02 B:

Underdrains shall be stored indoors and in accordance with the manufacturer's recommendations.

Page E-63:

Add the following to the end of 2.30 B.:

The sun shield for the screen shall be functionally equivalent to the Smith and Loveless Shade Aide stainless steel sun shield and shall provide effective shading that allows the operator to easily read the screen when the sun shield is open. The sun shield shall provide both top and side shielding and shall have provision to stay open without being held by an operator.

Page E-64:

Add the following sentences to the end of 2.33 E regarding PFAS:

The notification regarding PFAS shall be made during the submittal phase of the project. The notification shall be based on the information that the filter manufacturer has and to the best of the filter manufacturer's ability.

## CONTRACT DRAWINGS:

Sheet 7: Add the following to the end of Note 9:

The circuit breakers, starters, and controls for the mudwell pumps are presently located in Control Station G and its associated SCADA panel. The functionality of those items must be relocated or replaced before they and the associated wiring to the mudwell can be demolished. This can be done by installing the new Traveling Bridge Mudwell Pump Station Control Panel (see sheet 81). Alternatively, in order to expedite the Contractor's schedule, the Contractor can relocate the above existing equipment and rewire it for use until the permanent Traveling Bridge Mudwell Pump Station Control Panel can be manufactured and installed. Or, if the Contractor desires, and at the request of the Contractor in a timely manner, the Owner (Alabama Water Utilities) will make available to the Contractor a used pump station control panel for the temporary use of the Contractor. The Contractor shall make any modifications required (if needed) to this panel, install it, and wire it for use until the permanent Traveling Bridge Mudwell Pump Station Control Panel can be manufactured and installed. If the Contractor elects to relocate the existing equipment or use a panel provided by the Owner, he shall install the Mudwell HWL alarm and connect it to the SCADA panel in the UV Electrical Building so that an alarm can be received in the interim period prior to the installation of the permanent HWL alarm. See the electrical sheets for other information regarding the work in this area.

Sheet 23: A canopy shall be provided over and extending between the two disk filter control panels (Panel 1 and Panel 2). The approximate size shall be 7'0" (north/south) by 6' 10" (east/west). The canopy shall be supported by and be flush with the aluminum support members for the overhead grating. The depth of the canopy shall be as small as possible to maintain maximum headroom. Provide downspouts as needed to prevent splashing and to convey rainwater to the edge of the concrete slab. The gutters shall be located adjacent to the 24" effluent piping to avoid creating a potential tripping hazard. The canopy shall meet the requirements of the Canopy specification beginning on page S3-16 of the specifications and shall be designed by and provided by the manufacturer of the other canopies on the project. The size and location of the canopy shall be carefully coordinated with other items (including but not limited to the overhead support system) in the area to avoid a conflict.

Sheet 25: In addition to the reinforcing steel indicated, shown, or called for in the structural drawings and other drawings, the Contractor shall include an allowance for 200 pounds of additional reinforcing steel to be provided and installed in various locations as determined during construction. The Contractor may assume that this steel will be furnished as #7 bars with a 90° bend approximately every 10' section although this should be expected to vary.

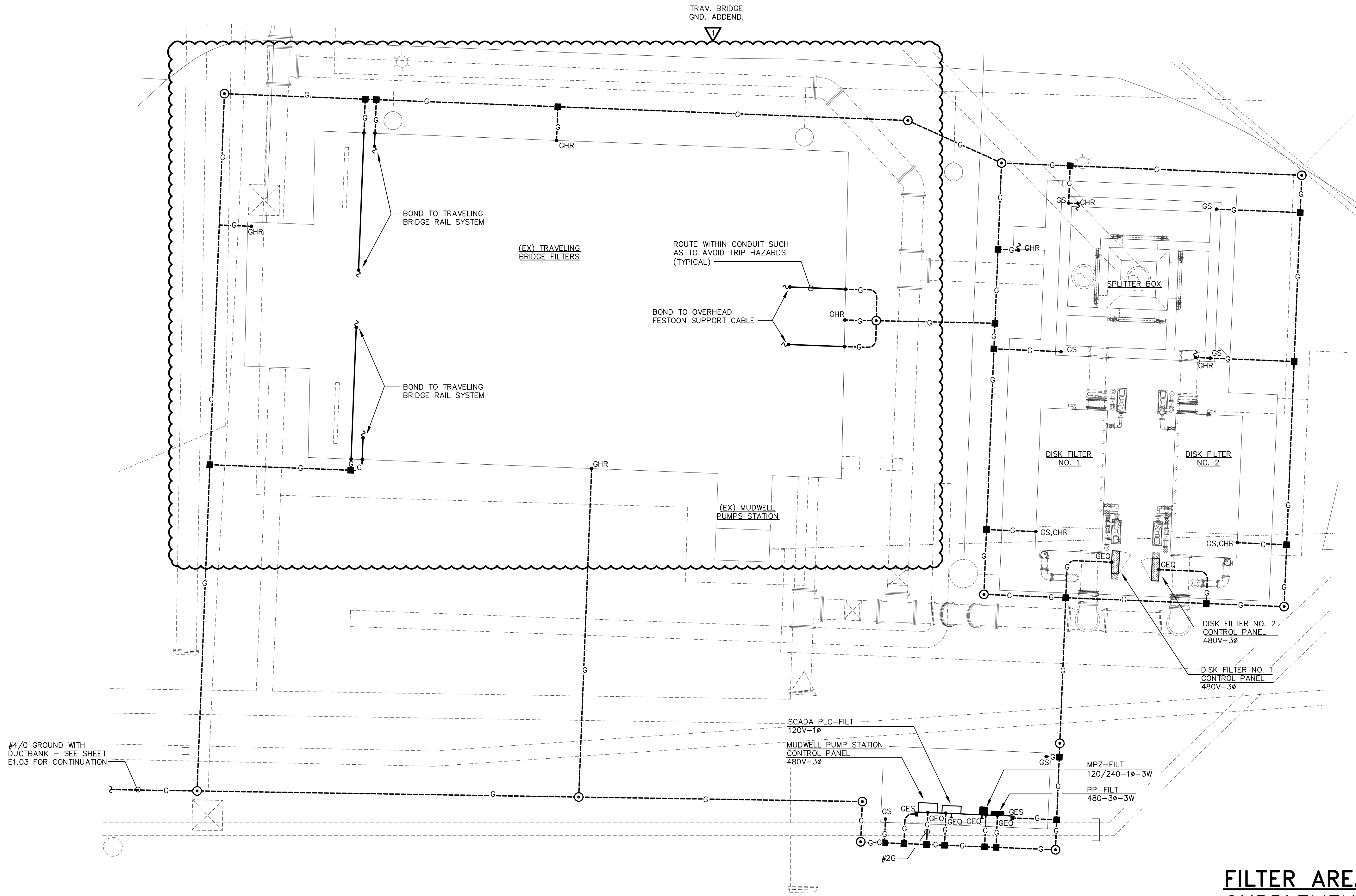
Note 3: The reference to Schedule 10 SS piping should be Schedule 40 SS piping.

Add the following note:

16. Use 1" Schedule 40 PVC piping to extend the condensate drain from each filter control panel air conditioner to the edge of the concrete slab. Provide a wye at the upper end to allow the insertion of a water hose to flush the drain piping. Route the piping adjacent to the 24" filter effluent piping to protect the piping from damage and to avoid the creation of potential tripping hazards.

Sheet 82: Replace existing Sheet 82 with the attached revised Sheet 82.

End of Addendum #1



#4/0 GROUND WITH DUCTBANK - SEE SHEET E1.03 FOR CONTINUATION

**FILTER AREA LARGE SCALE SUPPLEMENTAL GROUNDING PLAN**  
 SCALE : 1/8" = 1'-0"

<p><b>Municipal Consultants, Inc.</b>                  200 Cahaba Park, South, Suite 212                  Birmingham, Alabama 35226                  (205) 822-0878</p>	
<p><b>ALABAMA WATER UTILITIES</b>                  NORTH SHELBY WRRF                  2023 FILTER IMPROVEMENTS                  2023</p>	
<p>ALABAMA PROFESSIONAL ENGINEER                  No. 27420                  PHILIP D. BLACK                  7/10/2023                  NOT VALID WITHOUT SIGNATURE</p>	
<p>BAR = 1"</p>	
<p>Drawing E1.05</p>	<p>Title                  FILTER AREA LARGE SCALE SUPPLEMENTAL GROUNDING PLAN</p>
<p>Project No. 07-23</p>	<p>BID SET</p>
<p>Scale AS NOTED</p>	<p>82</p>
<p>Sheet</p>	<p>ADDENDUM NO. 1 (08-03-2023)</p>