

 <p>CLAYTON COUNTY Water AUTHORITY</p> <p>1600 Battle Creek Road, Morrow, GA 30260</p>	JW Smith Water Production Plant Administrative and Filter Building Roof Replacement	
	ADDENDUM #1	
	DATE	February 28, 2024
	BID NUMBER	2024-WP-05
	BID OPENING DATE	March 5, 2024
PRE-BID MEETING DATE	February 20, 2024	
ADDENDUM MUST BE SIGNED AND INCLUDED IN YOUR RESPONSE TO THE RFB.		

REVISIONS:

1. Please replace Division 4 – Specifications, Section 4 – Modified Bituminous Membrane Roofing pages 4-4.1, 4-4.10-4-4.11, and 4-4.16 with the revised pages provided.
Revisions include removing the Stone Ballast (gravel top layer) specs. Revisions are highlighted in yellow and provided with this addendum.
2. Please replace the Table of Contents page ii with the revised page provided.
Revisions are made as part of revision number one. Revisions are highlighted in yellow and provided with this addendum.

QUESTIONS:

1. Would it be sufficient to complete the work with a 2 ply or 3 ply Modified Bituminous system inclusive of a base layer (or 2) and cap sheet while omitting the gravel top layer?

Answer:

See revision number one.

2. What is the estimated construction budget?

Answer:

The CCWA shall not disclose this information at this time.

<i>Acknowledgment of receipt of this addendum must be signed and included in your bid response.</i>	
COMPANY NAME	
SIGNATURE	
DATE	

Division 4

Specifications

Section 4: Modified Bituminous Membrane Roofing

4.1 General

4.1.1 Scope of Work

- A. Furnish all labor, materials, equipment and incidents required and install a modified bituminous roofing membrane (conventional application) over insulation, as specified herein, with deck sheathing, stone ballast, base flashing, cap flashing, coping system, roofing cant strips, roofing expansion joints, walkway pads, and appurtenances, all as specified herein.
- B. The entire roofing system shall be installed by a licensed, authorized roofing contractor of the system manufacturer providing the warranty. The roofing contractor shall be trained and qualified to install the system in strict accordance with the system manufacturer's details, specification, and recommendations.

4.1.2 Related Requirements

- A. Summary of Work is included in Division 4, Section 1 - Summary of Work.

4.1.3 Submittals

- A. Submit to the OWNER/ENGINEER for approval, shop drawings showing details of construction and installation for insulation system, membrane, bitumen materials, flashings, vapor retarder, pourable sealer and other sealants and detailed technical data on membrane and flashing materials, insulation, stone ballast and all other components proposed. Indicate joint or termination detail conditions, conditions of interface with other materials, setting plan for tapered insulation, and mechanical fastener layout.
- B. Product Data: Provide manufacturer's catalog data for membrane and bitumen materials, base flashing materials, insulation, vapor retarder, and surfacing.
- C. Samples: Submit representative samples of membrane, flashing, insulation, fasteners and stone ballast proposed.

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Specifications

Section 4: Modified Bituminous Membrane Roofing

4.2.2 Membrane and Sheet Materials

- A. Asphalt coated, glass fiber reinforced, mechanically fastened venting base sheet: Conforms to or exceeds requirements of ASTM D 3672 Type II and ASTM D 4897, Type II and UL Type G2 BUR.
- B. Granule surfaced modified bitumen sheet containing a core of non-woven glass fiber mat coated with flexible SBS polymer-modified asphalt. Conforms to or exceeds the requirements of ASTM D 6163 Type I Grade G.

4.2.3 Flashing Materials

- A. Flashing system shall be by the manufacturer as the roofing system, and shall be asphalt-saturated and coated, suitable for the application method specified by the manufacturer.
- B. Backer Sheet: SBS-modified asphalt sheet; smooth surfaced; suitable for application method specified.
- C. Flashing Sheet: SBS-modified asphalt sheet, granular surfaced suitable for the application method specified.
- D. Flashing Cement: Bituminous product expressly recommended by the roofing materials manufacturer for flashing work on vertical surfaces, asphaltic flashing cement or flashing compound of troweling consistency.

4.2.4 Bituminous Materials

- A. Bitumen: Asphalt, ASTM D312 Type IV; for adhering insulation, use Type III.
- B. Primer: ASTM D41, asphalt type.
- C. Roof Cement: ASTM D4586, Type II; consistency required by roofing system manufacturer for the application.

4.2.5 Stone Ballast

- A. Stone for ballast shall be washed, well graded, dry 2-1/2 inch river gravel graded according to ASTM C136, No. 2 size with 90 to 100 percent passing a 2-1/2 inch screen, 35 to 70 percent passing a 2 inch screen, 0

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Specifications

Section 4: Modified Bituminous Membrane Roofing

~~to 15 percent passing a 1-1/2-inch screen and 0 to 5 percent passing a 3/4-inch screen. Stone shall have approved rounded edges (ranging from subrounded to subangular as defined in ASTM D2488) to prevent damage to the membrane. Stone shall not contain more than 1 percent material finer than No. 200 sieve nor shall it lose more than 18 percent by weight when subjected to a 5 cycle magnesium sulfate soundness test per ASTM C88.~~

4.2.5 Accessories

- A. Roofing Cant Strips: Wood; pressure preservative treated.
- B. Self-Adhered Primer: One-part penetrating primer solution to enhance the adhesion of self-adhering membranes.
- C. Insulation Joint Tape: Glass fiber reinforced type as recommended by insulation manufacturer, compatible with roofing materials; 6 inches wide; self-adhering.
- D. Insulation Fasteners: Appropriate for purpose intended and approved by roofing system Manufacturer.
- E. Roofing Nails: Hammer-in, non-threaded designed to secure insulation to structural concrete as required to suit this application.
- F. Strip Reglet Devices: Galvanized steel, maximum possible lengths per location, with attachment flanges.
- G. Insulation Perimeter Restraint: Stainless steel edge device configured to restrain insulation boards in position and provide top flashing over ballast.
- H. Sealants: As recommended by membrane manufacturer.

4.3 Execution

4.3.1 Examination

- A. Verify that surfaces and site conditions are ready to receive work.
- B. Verify deck surfaces are dry and free of snow or ice.
- C. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system

Division 4

Specifications

Section 4: Modified Bituminous Membrane Roofing

4.3.7 Stone Ballast Installation

~~A. Stone shall be applied on top of membrane with any protection fabric as may be required so that the warranty may be issued. Set stone at a rate as outlined by the roofing system manufacturer.~~

4.3.7 Cleaning

- A. All work areas are to be kept clean, clear and free of debris at all times.
- B. All trash, waste and/or debris shall be removed from the roof on a daily basis.
- C. Remove bituminous markings from finished surfaces.
- D. In areas where finished surfaces are soiled by bitumen or other source of soiling caused by work of this section, consult manufacturer of surfaces for cleaning advice and conform to their documented instructions.
- E. Properly clean the finished roof surface after completion, and ensure the drains are not clogged.
- F. Repair or replace defaced or damaged finishes caused by work of this Section.

4.3.8 Protection

- A. Protect installed roofing and flashings from construction operations.
- B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.
- C. Whenever possible, stage materials in such a manner that foot traffic is minimized over completed roof areas.
- D. When it is not possible to stage materials away from locations where partial or complete installation has taken place, temporary walkways and platforms shall be installed in order to protect all completed roof areas from traffic and point loading during the application process.

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Attachments

- A. W-9
- B. Vendor Information Form
- C. Bid Package Label

Addenda

Addendum No. 1

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