



Addendum No. 2

Subject: SR 166 (North Main Street) Downtown Revitalization – Phase 1
TDOT PIN: 126660.00 / Federal Project No.: TAP/STP-M-166(20) /
State Project No.: 60LPLM-F1-036

Date: December 13, 2023

Receipt of this addendum must be acknowledged and noted in accordance with the Proposal Contract Book. Failure to acknowledge receipt of Addendum Letters is grounds for rejection.

This addendum supplements and amends the approved drawings and specifications and shall be a part of the contract documents. The proposed contract documents for this project are modified as indicated below.

SPECIFICATIONS AND CONTRACT DOCUMENTS

1. The Contractor shall maintain pedestrian access to all buildings during construction. Although this may be accomplished in various ways (i.e. temporary walkways, use of secondary entrances, phasing of sidewalk installation, etc.) it is ultimately the Contractor's responsibility to coordinate with each building owner (and City) to determine acceptable accessibility. As such an example Pedestrian Temporary Walkway detail has been shown on the Traffic Control Plan Sheet T1. All costs associated with the use of Pedestrian Temporary Walkways or other methods to maintain pedestrian access are considered incidental to Item No. **712-01 Traffic Control**
2. The Contractor shall refer to Section 02870 – Miscellaneous Site Items of the Proposal Contract book in regard to materials related to Planters, Benches, Trash Receptacles and Picnic Tables.
3. For Item No. **605-02 Waterproofing, Class II**, the Contractor shall refer to the included **Section 605 – Waterproofing** section from the previous TDOT Standard Specifications for Road and Bridge Construction dated January 1, 2015. This is reference to the waterproofing required for the sidewalk vaults as shown on Detail Sheet 2F2 of the construction drawings.

END OF ADDENDUM NO. 2

605.01

SECTION 605 – WATERPROOFING

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DESCRIPTION

605.01 Description

This work consists of applying waterproofing materials to Portland cement concrete masonry surfaces.

MATERIALS

605.02 Materials

Provide materials as specified in:

Waterproofing Materials..... **906**

605.03 Classification

The Department will classify and pay for waterproofing under the following designations:

A. Class I

Waterproofing Class I shall consist of a primer applied cold, followed by four applications of asphalt sealer applied hot, and three layers of bituminized fabric. The primer for asphalt sealer shall also be asphalt. The bitumen for the sealer, including the bitumen in the fabric, shall be all asphalt, as shown on the Plans, and shall be of the type specified or indicated.

B. Class II

Waterproofing Class II shall consist of a prime coat of asphalt applied cold, four seal coats of asphalt applied hot, with three layers of asphalt saturated fabric, and a protection course of asphalt plank. The type of asphalt for seal coats shall be as shown on the Plans or otherwise directed by the Engineer.

605.04 Reserved**CONSTRUCTION REQUIREMENTS****605.05 Preparation of Surface**

Before waterproofing any surfaces, give them a Class I finish as specified in **604.21.A**. Immediately before applying the primer, thoroughly clean the surface of the concrete of all dust or other objectionable material. Ensure that the surface of the concrete is dry at the time the primer is applied.

For joints that are essentially open or are free construction joints, but that are not designed to provide for expansion, first caulk and then fill them flush with the surface, as specified.

605.06 Application**A. Class I**

Only apply waterproofing in dry weather and when the ambient temperature is above 40 °F. Concrete surfaces shall have cured 10 days for Portland cement concrete and 7 days for high-early-strength concrete.

605.06

Only apply waterproofing to surfaces that are thoroughly dry and free from frost.

On inclined or vertical surfaces, begin waterproofing at the lower part of the surface and continue upward. On horizontal surfaces, begin waterproofing at one end, unless otherwise directed by the Engineer, and continue through to the other end.

Spread bitumen, except primer coats, by mopping or brushing on the surface to be waterproofed. The Contractor may spray bitumen for primer coats.

Mopping shall leave the surface completely covered, and where applied on fabric, it shall completely cover each layer so that the weave will be concealed and the layers of the fabric entirely separated.

Spread primer uniformly over the surface at the rate of not less than 0.2 gallons per square yard, and allow it to cure thoroughly before applying the subsequent coats of hot bitumen.

Uniformly apply the hot bitumen coats and coating between fabric. Use at least 0.25 gallons per square yard in each coating or between layers of fabric on horizontal surfaces and at least 0.30 gallons per square yard on vertical surfaces.

Carry all waterproofing material continuously across expansion joints.

For bitumen that is to be applied hot, stir or otherwise agitate it to secure uniform heating and to avoid local overheating.

Allow all surfaces that have been waterproofed with bituminous materials to thoroughly cure before backfilling or placing other material against them.

Apply hot bitumen at temperatures ranging from 250 °F to 325 °F.

Apply the first layer of fabric as follows:

1. At the place of beginning waterproofing, and upon the prime coat, apply hot bitumen to a section 2 inches wider than the strip of fabric to be applied and for the full length of the section.

2. Then roll and press the strip of fabric on this area while the bitumen is hot.
3. On 2 inches of this strip of fabric and an area of the adjoining surface equal to 2 inches wider than a strip of fabric, apply a coating of hot bitumen, and roll and press a strip of fabric, full width, on it, as required for the first strip.
4. Thereafter, lay full widths of fabric as specified for the first strip, and in such manner that each strip will lap the preceding strip by 2 inches. Ensure that side laps are not less than 2 inches and end laps not less than 12 inches.

Apply the second and third layers of fabric in the same manner as the first layer, but ensure that the laps of the layers do not come directly over the laps of either of the other layers. Completely cover the third layer of fabric with a coat of hot bitumen.

When placing on vertical or inclined surfaces, allow the bitumen between two layers of fabric to cool before placing the next layer of fabric.

When placing on horizontal surfaces, the Contractor may apply one layer immediately following the preceding layer, while taking care not to disturb the preceding layer.

Place each strip of fabric without folds or creases, and eliminate all air bubbles and pockets.

B. Class II

Place the asphaltic materials and asphalt saturated fabric for Class II waterproofing as specified above for Class I Waterproofing.

After the final coating of bitumen is applied to the fabric, and while it is hot, place the asphalt plank upon the bitumen and lay tightly, with the end joints broken in each layer of plank. After the planks are laid, fill all open cracks with hot asphalt, and apply hot asphalt to the outer surface of the planks.

The finished surface shall be smooth and true to line and grade.

605.07

605.07 Edges

At the edge of all surfaces, or where surfaces are punctured by drains, pipes, or other openings, prevent water from getting between the waterproofing and the surface waterproofed. Construct flashings at curbs and against girders, spandrels, and walls with separate sheets lapping the main sheets not less than 12 inches.

605.08 Protection and Patching

Prevent damage to the materials applied in waterproofing. Repair all damage that occurs by patching. Extend patches at least 12 inches beyond the outermost portion damaged, and extend each succeeding layer at least 3 inches beyond the preceding layer.

Remove and re-lay, or replace as directed by the Engineer, asphalt planks that become damaged.

605.09 Final Cleanup

Perform final cleanup as specified in **104.10**.

COMPENSATION

605.10 Method of Measurement

The Department will measure waterproofing of the various classes by the square yard, based on surface measurements of the area completed and accepted.

The Department will make no deductions for areas not waterproofed of 9 square feet or less within the waterproofing area.

605.11 Basis of Payment

The Department will pay for accepted quantities at the contract prices as follows:

<i>Item</i>	<i>Pay Unit</i>
Waterproofing, Class I	Square Yard
Waterproofing, Class II	Square Yard