

COUNTY OF UNION

DEPARTMENT OF ENGINEERING, PUBLIC WORKS & FACILITIES

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THOMAS O. MINEO, P.E.
*County Engineer,
Director, Division of
Engineering*

MEMO TO: To All Potential Bidders

FROM: Thomas O. Mineo, County Engineer

DATE: March 22, 2013

RE: CLARIFICATION NO. 1
BA#3-2013; Union County Engineering Project #2010-032C
Replacement of Hillside Avenue Culvert SP-17 Over
Stream 10-32, Township of Springfield, County of Union, NJ

The following are clarifications to the Contract:

1. Contract Time:

The 210 calendar day completion time, with associated liquidated damages, includes time for shop drawing reviews, fabrication time, utility relocation, etc. Hillside Avenue is a heavily travelled roadway and it is the County's intent to minimize the length of disruption to area traffic patterns. It is the County's expectation that the culvert replacement will be completed in 30 calendar days, however should site conditions or unforeseen circumstances arise, additional closure time may be considered and will be subject to the approval of the county and the local municipality.

2. Bid Item #9 Traffic Directors / Flaggers:

It is not anticipated that Police Directors will be utilized on this project. Only Traffic Directors, Flaggers are to be used and therefore, a unit cost or allowance was not provided for Police Directors. Any reference to using Police Directors shall be removed unless separately directed by the County.

3. Waterproof Membrane Subsection 912.02.06:

Waterproofing membrane is not listed in the current NJDOT Standard Specifications. Waterproofing Membrane, Subsection 912.02.06 shall be as follows:

919.12.02.06 Waterproofing Membrane

Membrane waterproofing shall be a HMA material reinforced with a synthetic fabric capable of withstanding puncture and severe stress. Membrane shall be cold applied and capable of providing good bond to both the primed surface and to itself on overlap areas.

DIVISION OF ENGINEERING

2325 South Avenue

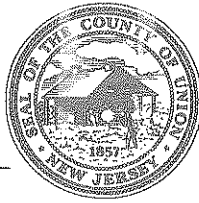
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Membrane waterproofing shall conform to the following:

Physical Property	Test Method	Requirement
Thickness		60 \pm 5 mils minimum
Tensile Strength of Reinforcement Only	ASTM D 882-A	50 lbs/in width minimum
Elongation of Compound Only	ASTM D 882-A	300% minimum
Water Absorption	ASTM D 517	1% maximum by weight
Permeance	ASTM D 96-B	0.05 perms maximum
Pliability	ASTM D 146	No cracks at 180-degree (-25 F, 1" mandrel) bend
Puncture Resistance	ASTM E154	40 lbs minimum
Compound Softening Point	ASTM D 36	220 F
Peel Adhesion	ASTM D 903	4 lbs/in minimum

Approved materials include:

- W.R. Grace System. Bituthene 5000, Bituthene Primer and Bituthene Mastic as manufactured by W.R. Grace Co., 62 Whittemore Avenue, Cambridge, MA 02140, Telephone: (617) 876-1400.
- Royston System. Royston Membrane No. 10A and Royston Bridge Membrane Primer 713A, as manufactured by Royston Laboratories, Inc. Pittsburgh, PA 15238, Telephone: (412) 828-1500.
- Protecto Wrap System. M-400A Membrane, No. 80 Primer and 160H Mastic as manufactured by Protecto Wrap Co., 2255 South Delaware Street, Denver, CO 80223, Telephone: (303) 777-3001.

4. 14" and 18" pipe sleeve material type :

For both the 14" and 18" Pipe sleeves, provide steel pipe sleeves in accordance with ASTM A 252, and galvanize according to ASTM A 123.

5. Existing Structure Information

Limited information is available for the existing structure and known information is shown on the plan Sheet 2 of 12.