

**CUYAHOGA COUNTY, OHIO**  
**ADDENDUM NUMBER 2, JUNE 1, 2018**  
**FOR THE**  
**CITY OF BRECKSVILLE,**  
**CUY - BRADFORD ROAD RELIEF SEWER**  
**AND PUMP STATION ELIMINATION**  
**FOR THE CUYAHOGA COUNTY DEPARTMENT OF PUBLIC WORKS**  
**RQ# 41757**  
**BIDS DUE ON: June 11, 2018, 2:00 P.M.**

## **PRE-BID QUESTIONS**

1. **Question:** The Contract Documents for the Sanitary Sewer call for:

Bid Tab Reference Number 78, ODOT Item 611, 8-inch PVC C-900 DR 25 Conduit  
Bid Tab Reference Number 81, ODOT Item 611, 10-inch PVC C-900 DR 25 Conduit

Is that the only type of pipe that is acceptable for these two specific directional drilled items for this Project?

**Answer:** Item 78 and 81 Approved Equal: An approved equal to the C-900 PVC would be High Density Polyethylene (HDPE): the material shall conform to ASTM F714, Cell class ASTM – D3350 445474C, DR 9 Ductile Iron Pipe Size, the average minimum inside diameter shall be 8” and 10” for item 78 and 81 respectively. Color- black.

2. **Question:** This is regarding the connection of the 58”x91” Elliptical Pipe to Stm Mh 1 & Stm Mh 2.

1. The Detail on Plan Page 31 for the Manhole calls out: OPENINGS IN RISER SECTIONS for....Flexible connections.....shall meet ASTM C-923.

2. The Detail on Plan Page 9 for MANHOLE, NO. 3, AS PER PLAN references: RESILIENT CONNECTORS, MEETING THE REQUIREMENTS OF ASTM C 923.

3. Continuing on that Plan Page 9 detail, in reference to the 58”x91” Elliptical Pipe to 12’x6’ box connections: WATERSTOPS FOR THE PIPING ARE REQUIRED SUCH THAT THE CONNECTIONS TO THE BOXES SHALL BE WATERTIGHT.

The last reference, #3, does not list ASTM C 923. There are waterstop gaskets that can be placed around pipe, then the pipe and gasket are grouted in place in the field. This will provide a waterstop at the pipe, but it is not a flexible connection, and therefore, does not fully meet the requirements of ASTM C 923. The A-Lok Waterstop brochure is included and can be made for elliptical RCP. There are other manufacturers of this style gasket as well. *Is the above style, ~~and attached~~, waterstop gasket acceptable for the two connections of 58”x91” Elliptical pipe to the 12’x6’ box manholes?*

**Answer:** See the answer to Question 3 below.

3. **Question:** This is regarding the connection of the 58”x91” Elliptical Pipe to Stm Mh 1 & Stm Mh 2. I just took a closer look at the plan and with the angle of the 72”Ø pipe at Stm Mh 1, the only way to accomplish a watertight seal is with a 5 sided manhole structure. There are other field grout sealing methods using Hydrophilic waterstops that may work

with the pipe angle and a flat wall. Please re-review how this manhole is to be built and what sealing method the contractor may use to meet your specifications.  
~~Several Hydrophilic waterstops by ConSeal are attached.~~

**Answer to Questions 2 and 3: Item 51 Approved Equal:** An approved equal to the ODOT Item 611 – Manhole, No. 3, As Per Plan STM MH#1 and STM MH#2 12'x6' Precast Rectangular Precast Box would be a Cast-In-Place Concrete Structure suitable to install the connecting pipes. The Cast-In-Place Concrete Structure shall conform to ODOT CMS 611, ODOT CMS 499, ODOT CMS 501, ODOT CMS 509, and ODOT CMS 511. The Cast-In-Place Concrete Structure must allow for A-LOK WATER-STOP flexible connections or an approved equal to be used on all connecting pipes. The contractor is required to submit shop drawings and calculations signed and stamped by a State of Ohio Registered Professional Engineer for both manholes to be approved by the County.

4. **Question:** From Sta. 24+70 to 28+37 the 54" Type B Conduit is to be installed outside of the pavement limitation. Can the original backfill be used in this area (Sta. 24+70 to 28+37)?

**Answer:** **Sta. 24+70 to Sta. 28+37, 54" Type B Conduit Backfill:** Non-structural backfill is acceptable as per the note on Sheet 9, "ITEM 611 – CONDUITS, AS PER PLAN/ITEM 611 – STRUCTURES, AS PER PLAN" note, paragraph 8 for the area outside the pavement limitations for the 54" Type B Conduit between Sta. 24+70 to Sta. 28+37.

End of Addendum Number 2.