

ADDENDUM NO. 1  
SEWER SYSTEM IMPROVEMENTS  
CONTRACT 17-01  
SEWAGE PUMPING STATION RENOVATIONS AND  
SLIDE GATE INSTALLATION AT WWTP  
PULASKI, TENNESSEE  
WAUFORD PROJECT NO. 2074

Date of Addendum: Thursday, August 17, 2017

Bid Opening: Tuesday, August 22, 2017, 12:00 P.M. Local Time

1. Detailed Specifications, Section 4. Site Preparation and Development, Piping and Valves, Paragraph 9.b.(2). DIP Piping Installed Outside Above-Ground and Inside Buildings and Structures, Page DS 4-7:

Delete the second (2nd) paragraph.

2. Detailed Specifications, Section 4. Site Preparation and Development, Piping and Valves, Paragraph 22. Wetwell Lining, Page DS 4-21:

Add the following paragraph to the end of Section 4:

“22. Wetwell Lining

The existing wetwell at the Harwell Heights SPS and Robinhood SPS shall receive an interior coating consisting of a moisture barrier (modified Polymer), a surfacer (Polyurethane / Polymer blend foam) and a final corrosion barrier (Modified Polymer). The total thickness of the multicomponent liner system shall be 500 mils.

Surface preparation methods shall consist of pressure washing or abrasive blasting, and shall produce a clean, abraded and sound surface, free of loose particles, contaminants, oil or grease, and shall produce a surface profile suitable for application of the liner system.

The material application shall be in accordance with the manufacturer's written procedures which shall be supplied with the shop drawings. A permanent identification and date of work performed shall be affixed to the structure in a readily visible location. The manufacturer shall provide a final written report detailing the location, date of work, and description of products used and

application thickness of each product in five test locations. The final product shall be free of voids and pinholes.

The liner system shall be Spectrashield by CCI Spectrum, Inc. or Engineer approved equal.

Installers of the Polymer lining renovation system shall provide written evidence to the Engineer at least 5 business days before the bid date that they are licensed as an installer by the lining system manufacturer whose system is being used. If this evidence is not provided, the installer shall not be allowed to perform the scope of work described in these Detailed Specifications.

The installer of the Polymer lining renovation system, through the Contractor, shall submit a step-by-step written work plan to the Engineer as a submittal in accordance with the requirements in Section 1, Paragraph 2. Execution and Coordination of the Work of these Detailed Specifications for approval prior to beginning installing the liner.

Prior to beginning application of the Polymer lining renovation system, the system installer shall make all preparatory steps recommended by the system supplier.”

3. Detailed Specifications, Sub-Section 5A. Harwell Heights Sewage Pumping Station and Appurtenances, Paragraph 3.a. Top Mounted Type Wastewater Pumps, Page DS 5A-1:

Modify the first sentence as follows:

“The top mounted type wastewater pumps to be installed **on** the existing wetwell at the **Harwell Heights Sewage** Pumping Station will transfer wastewater from the existing wetwell into an existing force main pipeline as depicted on the Drawings.”

4. Detailed Specifications, Sub-Section 5A. Harwell Heights Sewage Pumping Station and Appurtenances, Paragraph 4. Utilities Provided, Page DS 5A-2:

Modify the paragraph as follows:

“Electric power provided for the **two** pump drive motors shall be alternating current, 230 volt, three phase, 60 Hertz.”

5. Detailed Specifications, Sub-Section 5A. Harwell Heights Sewage Pumping Station and Appurtenances, Paragraph 5.a. Top Mounted Pumping Station, Page DS 5A-2:

Modify the first sentence in the second (2nd) paragraph as follows:

“The supporting floor plate shall be a minimum **1/2-inch** thick stainless steel with reinforcing as required to prevent deflection and to insure an absolutely rigid support.”

6. Detailed Specifications, Sub-Section 5A. Harwell Heights Sewage Pumping Station and Appurtenances, Paragraph 5.a. Top Mounted Pumping Station, Page DS 5A-3:

Delete the fourth (4th) paragraph.

7. Detailed Specifications, Sub-Section 5A. Harwell Heights Sewage Pumping Station and Appurtenances, Paragraph 6. Main Pumps, Page DS 5A-4:

Modify the first sentence as follows:

“The pumps shall be **6-inch** vertical, centrifugal, non-clog type of heavy cast iron construction, especially designed for the use of mechanical seals and vacuum priming.”

8. Detailed Specifications, Sub-Section 5A. Harwell Heights Sewage Pumping Station and Appurtenances, Paragraph 6. Main Pumps, Page DS 5A-4:

Modify the fifth (5th) paragraph as follows:

“The pump impellers shall be of the enclosed **two-port** made of close-grained cast iron and shall be dynamically balanced when pumping wastewater. ~~Two-port impellers shall not be allowed.~~ The dynamic balance shall be obtained without the use of balance weights or liquid filled chambers. The impeller shall be designed to allow for the trimming of the impeller to meet design conditions without altering the balance. The eye of the impeller as well as the port shall be large enough to permit the passage of a sphere 3” in diameter in accordance with nationally recognized standards. To prevent further clogging, the impeller port shall have a minimum area of 10.6 square inches. The impeller shall be keyed with a stainless steel key and secured to the motor shaft by a stainless steel cap screw equipped with a Nylock or other suitable self- locking device. The impeller shall not be screwed or pinned to the motor pump shaft, and shall be readily removable without the

use of special tools. To prevent the buildup of stringy materials, grit and other foreign particles around the pump shaft, all impellers less than full diameter shall be trimmed inside the impeller shroud. The shrouds shall remain full diameter so that close minimum clearance from shrouds to volute is maintained. Both the end of the shaft and bore of the impeller shall be tapered to permit easy removal of the impeller from the shaft.”

9. Detailed Specifications, Sub-Section 5B. Robinhood Sewage Pumping Station and Appurtenances, Paragraph 4. Utilities Provided, Page DS 5B-2:

Modify as shown:

“Electric power provided shall be alternating current, **240** volts, three phase, **four** wire, 60 Hertz.”

10. Plans, Sheet 1:

Modify as shown on the attached 8 ½” x 11” sheet.

11. Plans, Sheet 3:

Modify as shown on the attached 8 ½” x 11” sheet.

J. R. WAUFORD & COMPANY,  
CONSULTING ENGINEERS, INC.



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J. Gregory Davenport, P.E.  
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### NOTE

1. ALL NEW DUCTILE IRON PIPE IN THE WETWELL AND VALVE BOX SHALL BE SPECIALLY LINED INSIDE AND EXTERIOR COATED WITH 3M SCOTCHKOTE LIQUID EPOXY 323 IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

SHEET <b>1</b> OF <b>6</b>		<b>SEWER SYSTEM IMPROVEMENTS</b> <b>CONTRACT 17-01</b> SEWAGE PUMPING STATION RENOVATIONS AND STOP GATE INSTALLATION AT WWTP	
REVISIONS		<b>HARWELL HEIGHTS SPS RENOVATION</b>	
ADDENDUM NO. 1 8/15/2017 WZM		FOR	
		<b>PULASKI, TENNESSEE</b>	
		SCALE AS SHOWN	<b>WAUFORD</b> J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 <a href="http://www.jrwauford.com">www.jrwauford.com</a>
PROJECT NUMBER 2074		DATE JULY, 2017	
			DRAWN WZM
			CHECKED JGD

- △ NOTES:**
1. ALL NEW DUCTILE IRON PIPE IN THE WETWELL AND VALVE BOX SHALL BE SPECIALLY LINED INSIDE AND EXTERIOR COATED WITH 3M SCOTCHKOTE LIQUID EPOXY 323 IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
  2. REMOVE EXISTING MANHOLE STEPS AND REPAIR WETWELL WITH NON-SHRINK GROUT

SHEET <b>3</b> OF <b>6</b>		<b>SEWER SYSTEM IMPROVEMENTS</b> <b>CONTRACT 17-01</b>	
REVISIONS		SEWAGE PUMPING STATION RENOVATIONS AND STOP GATE INSTALLATION AT WWTP	
△ ADDENDUM NO. 1 8/15/2017 WZM		<b>ROBINHOOD SPS RENOVATION</b>	
		FOR <b>PULASKI, TENNESSEE</b>	
		SCALE AS SHOWN	<b>WAUFORD</b> J. R. Wauford & Company, Consulting Engineers, Inc. Nashville, Tennessee (615)883-3243 www.jrwauford.com
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