



ADDENDUM 1

FOR

BETHLEHEM STEEL IMPROVEMENTS PHASE II PROJECT

WATERLINE & SITE IMPROVEMENT PROJECT

February 20, 2018

Additional Information/Clarifications from Waterline Owner, Tecumseh, to questions raised during the on-site pre-bid meeting held on 2/8/2018:

1. The waterline shutdown period can be up to 10 consecutive calendar days as noted in specs- if additional consecutive days are needed beyond 10 days, contractors should plan for a \$3000 per day liquidated damage charge from Tecumseh, in their bid.
2. To clarify, there are no known active shutoff valves to isolate this 54" waterline. The pump station at the north end of Tecumseh property would need to be shut down. Bidders should plan to pump down/dewater this line as needed, and/or isolate line with alternative methods, per Engineers approval.
3. Pressure testing of the treated water line sections should be no more than 65 psi, which is the approximate maximum pressure on existing line.
4. To clarify sampling/screening of excavated materials, Tecumseh shall only be responsible to perform T-Norm screening of these materials.

Questions:

- Q.1 Plan C-509 states "305' HDPE Lining Item 602.2642 (Refer to Dwg C-511 for Additional Details)", Drawing C-511 was not included in the bid set of plans.
- A.1 The reference made to Dwg C-511 is a typo; there is no Dwg C-511 in the plan set. The reference in the callout should refer to Dwg C-510.
- Q.2 What is the post installation testing procedure and what will the test pressure be? (I could not find one....or is 50-60psi the test pressure?)
- A.2 Each lined segment shall be pressure tested prior to returning the line to service. This may be achieved by isolating each lined segments with mechanical or inflatable plugs at each end before the steel casing pipe is repaired/replaced. This would test the integrity of the liner only and would only require a few (maybe 10-15) psi of water to confirm it holds pressure for 30-60 minutes or so. For access points made in the waterline for insertion of the liner, it is suggested that these areas not be completely backfilled until after filling and initial pressurization of the waterline is made. Tecumseh will slowly bring up the pressure and bleed off air when re-energized and will schedule and coordinate re-energizing of the line with the Contractor. Before the waterline is re-energized, the lining shall also be visually inspected as described on Dwg. No's. C-503 and C-507.

- Q.3 For both the CIPP and HDPE options, the existing waterline will need to remain dry during the installation process. The concern is that once the waterline is shut down and fully dewatered, the closed valves will likely continue to leak slightly so a dam will be required to prevent this water from entering the cleaned and dry work area. How will these dams be covered if required?
- A.3 If dams are required, they shall be provided under the lining item selected (either CIPP Lining, Item 602.3654 or HDPE Lining, Item 602.2642) as described under section 602-3.02 – Handling and Installing Lining Materials, Section A – General.