# ADDENDUM #3

**PROJECT:** Cerise Park Waterline Bore Project
**BID NO:** 21-018
**FROM:** Scott Murphy
**DATE:** June 23, 2021

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**Questions and Answers**

1. *Is there a post-installation HDPE pipe verification requirement such as proofing with a mandrel to show that the pipe was not stretched or crushed? If so, will the pipe need to have the ID bead removed or will the mandrel OD be smaller than the ID bead?*
   **Answer:** Mandrel testing of the completed bore is not required and the pipe joints will not need to be de-beaded.

2. *For the HDPE pipe fusion process will there be any destructive testing such as side bend testing to verify integrity of fusions or will the data log reports be sufficient?*
   **Answer:** Destructive testing of the welds is not necessary. The data log reports for the welds and pressure test will be sufficient to verify weld integrity.

3. *Will a down hole pressure sensing device be required during the pilot hole operations to help avoid an IFR (Inadvertent Fluid Release) while crossing the Uncompahgre River?*
   **Answer:** This type of device is not explicitly required but is recommended given the consequence of fluid release to the river and since the contractor remains responsible for integrity of the bore, circulation, and cleanup of any releases. If utilizing this technology, please discuss its use in the work plan submitted with the bid.

4. *Due to no geotechnical report being provided and section "1.6 SOIL CONDITIONS" specifying 18" minus cobble but no density information provided will section "1.8 FIELD CHANGES AND USE OF CONTINGENCY" be utilized if subsurface conditions encountered result in cobble/boulders larger than 18" and or solid formations above a certain density? Should the HDD contactor assume worse case conditions, solid formations in excess of 30,000 psi and include all costs in bid item #2 or would an established excess rock clause be accepted for conditions that require more specialized HDD tooling and equipment for more technical conditions than what is listed in "1.6 SOIL CONDITIONS"?*
   **Answer:** Based on experience with excavations in the vicinity of the project, the City is confident that river-run materials are predominately 12" minus and no more than 18" diameter maximum. As a result, we are confident allowing the use of contingency if materials larger than 18" in diameter are encountered. As for formational materials, the City is also confident that these would consist of formational shale or sandstone materials. Past testing of these sandstone materials on other projects have indicated a specific gravity of less than 2.4 and LA abrasion of 50% or higher. Although never tested, it is suspected that formational materials will have a uniaxial compressive strength of less than 15,000 psi. Conditions substantially different than these would serve as basis for the use of contingency.

5. *Is the property or easement available to accommodate fusion of the entire 650' length of HDPE pipe prior to pullback operations and avoid having a mid-fusion? Can a larger drill setup area be provided to accommodate larger equipment and a drilling fluid separation unit?*
   **Answer:** The City owns the property at each end of the proposed bore. All of this property can be made available within reason to accommodate construction activities. A parcel map is available to scroll and measure online at: https://portico.mygisonline.com/html5/?viewer=montrosecoparcel Please keep in mind that all areas disturbed by construction would need to be restored by the contractor.

**Clarifications and Additions**

1. None this addendum

**Plan Revisions**

1. None this addendum

**Acknowledgement in Receipt of Addendum**

FIRM NAME: _____

BY:*(Printed)* _____

BY:*(Signature)*_____ TITLE: _____

Note: A signed acknowledgement in receipt of this addendum **MUST** be included with your bid proposal.