

ADDENDUM No. 5

**RESERVOIR AND PUMP STATION No. 2
CITY OF NORTH PLAINS, OREGON
Stantec Project No. 2002300044
September 30, 2019**

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To: Plan Holders

DOCUMENT HOLDERS on the above-named project are hereby notified that this Addendum No. 5 constitutes changes, additions, and/or deletions to the aforementioned contract documents and are by issuance as binding as if originally incorporated in the Contract Documents. All provisions of the Contract Documents not in conflict with Addendum No. 5 shall remain in full force. Bidders shall acknowledge receipt of all addenda on the Bid Form. Failure to do so may subject the Bidder to disqualification. This addendum consists of a total of 2 pages (this Addendum No. 5 one-page cover sheet plus 1 page of attachments).

Changes to contract document specifications:

In the attachments, items underlined are additions; items bubbled to the right of the page and called out as “deleted” are deletions.

1. Section 43 40 02 Field-Coated Welded Steel Water Reservoirs
 - a. See attached revisions to page 2

Clarification:

This is the final addendum. Bids are due as originally scheduled in the documents issued for bidding.

END OF ADDENDUM

reservoirs or tanks with a record of at least 5 successful installations within the last 2 years. CONTRACTOR shall furnish at least 5 separate project references that demonstrate the successful experience, including the name, address, and telephone number of the owner of each project.

- B. General: The CONTRACTOR shall provide quality assurance services as required by AWWA D100 and as required by this Section. Where the requirements differ, the provisions of this Section shall govern. The CONTRACTOR shall prepare a written report for inspection and testing per AWWA D100, Section 11.
- C. Automatic Welding: If the CONTRACTOR uses an automatic welding machine for the horizontal welds in the tank shell, the following startup procedure shall be used. After the first 10-feet of the first pass is welded, the CONTRACTOR shall air carbon arc gouge into the root of the weld to allow the ENGINEER to visually confirm that full penetration and fusion is attained. If full penetration and fusion have not been attained, the machine shall be immediately corrected. The procedure shall be repeated until satisfactory welding is achieved. Defective welding in the startup area shall be repaired.
- D. Inspection and Testing of Welds: Performing and paying for inspection and testing of welds shall be CONTRACTOR's responsibility and shall be completed before application of protective coatings. Welding of each successive shell course shall not begin until the previous shell course welds have been completely welded, inspected, and repaired. On joints where radiography is required, the welding of each worker shall be radiographed on the worker's first joint, before WORK begins on subsequent joints. The ENGINEER shall be furnished certified copies of radiography reports.
 - 1. Shell Welds: Welds not meeting the acceptance criteria in AWWA D100 shall be repaired and radiographed until the requirements are met. Horizontal and vertical welds shall be radiographed in accordance with AWWA D100.
 - 2. Roof Welds: Welds in contact with the reservoir contents shall be spot radiographed per AWWA D100.
 - 3. Bottom Welds: Welds joining the bottom plates shall be vacuum tested using solution film. Any detectable leaks shall be marked and repaired by welding. Sealing shall not be accomplished by peening. One spot radiograph shall be taken on 10 percent of the butt-welded annular plates. The inside shell-to-bottom fillet weld shall be vacuum tested using solution film before the outside weld is made.
 - 4. Shell Reinforcing Plates: After the reinforcing plate is fitted to the shell, but before the pipe or neck fitting is inserted, the reinforcing plate shall be seal-welded to the shell at the inner and outer edges. Air pressure shall then be applied to the space between the reinforcing plate and the shell, and the seal welds tested with solution film.
- E. Bottom Distortion: The CONTRACTOR shall use a written procedure for fitting and welding the bottom plates. Out-of-plane distortion shall not exceed 0.75 percent of the tank radius.
- F. Shell Distortion: Local deviations, such as flat spots, peaked joints, and welding distortion shall be limited as follows:
 - 1. Using a horizontal sweep board 36-inches long, the distance from the sweep board to the shell shall not be greater than 1/2-inch. Flat spots shall be measured with an external sweep board. Peaked spots shall be measured with an internal sweep board.
 - 2. Using a vertical sweep board 36-inches long, banding of horizontal joints shall not exceed 1/2-inch.

Deleted: Vertical welds shall be radiographed for 100 percent of their length.