
Report on
6.0 MG Zone D Reservoir

June 2011

6.0 MG Zone D Reservoir

Construction of a 6.0 MG underground reinforced concrete reservoir, piping, valve vaults, and site improvements located at 7886 West New Bingham Highway in the City of West Jordan.

The reservoir was built in conjunction with the new Zone D Pumpstation, which provided for a new Pressure Zone D service to West Jordan, South Jordan, and Herriman.

A wholesale meter station for the City of West Jordan was also constructed as part of the project and reimbursement was completed through a cost sharing agreement.

6.0 MG Zone D Reservoir

Project Manager: Jan Melchior

Engineer: J-U-B Engineers

Contractor: Absolute Constructors, LLC

Contract Award Date: 06/11/2009

Original Contract Amount: \$5,646,000

Final Contract Amount: \$6,073,628

Cumulative Change from Original Contract Amount: 7.6%

Project Change Orders

- Change Order #1: \$21,005– Depend-O-Lok couplings to allow for easier expansion of additional reservoirs in the future.
- Change Order #2: \$90,876 – Construction of deceleration lane for vehicles entering/exiting reservoir site to improve safety.
- Change Order #3: \$19,399– Installation of additional manhole.
- Change Order #4: \$58,422– Additional pipe supports for the future meter and upgrades to the WJC meter station per the City's request.
- Change Order #5: \$6,955– Increase rebar at stair access hatches to provide additional structural strength at the entrances/exits.

Project Change Orders

- Change Order #6: \$30,990– Flowable fill and repair to road failure during crossing of Old Bingham Highway.
- Change Order #7: \$1,165– Additional bonds and an encroachment permit for the crossing of Old Bingham Highway from WJC.
- Change Order #8: \$45,120– Cold weather protection for the remainder of the concrete work.
- Change Order #9: \$17,630– Modification of Isolation Valve Vault to provide additional safety. Included galvanized handrail for the top of the vault.
- Change Order #10: \$17,360– Modified crack repair of reservoir.

Project Change Orders

Change Order #11: \$7,339– Installation of a pump and washdown piping for future maintenance and a bypass pipe in the air gap structure to meet Dept. of Drinking Water regulations.

Change Order #12: \$0– Additional calendar days added to the contract for unforeseeable construction delays.

Change Order #13: \$24,890– Modification of security system and construction of new concrete stairs to the top of the reservoir for safer access.

Change Order #14: \$21,889– Installation of guard rail to the access road for safety.

Project Change Orders

- Change Order #15: \$47,987– Extension of air valve vents to meet Dept. of Drinking Water Regulations.
- Change Order #16: \$6,621– Installation of a catwalk over vault piping to provide access to security equipment and flow control valve.
- Change Order #17: \$9,978– Provide and install pump and associated appurtenances for future maintenance and cleaning of the reservoir.

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Installation of fusible
HDPE yard piping.



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Construction of the reservoir deck.



Scaffolding for reservoir deck.



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Connection of the reservoir piping to the yard piping.



Outlet structure at the Kennecott stormwater pond.

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View of completed reservoir,
Isolation Valve Vault, and
Flow Control Meter Vault.



Reservoir entrance.

