

# Final Project Completion Report

**Project Name and Number:**                    **900 East - Distribution Pipeline Replacement**

**Description:** Construction of approximately 2-miles of 16-inch plastic water pipe and associated main line connections along 900 East from 5290 South to 6400 South in Murray, Utah.

This new facility replaced a deteriorated 14-inch pipeline that required frequent age and corrosion related repairs.

<b>Engineer:</b>	<b>Stantec Consulting</b>	<b>Design Status: 100%</b>
Original Engineering Contract Amount:		\$394,182
Current Engineering Contract Amount:		\$492,401

<b>Contractor:</b>	<b>Whitaker Construction</b>	<b>Construction Status: 100%</b>
Original construction contract amount:		\$2,365,550
Total Change Order amount:		\$182,936
Current construction contract amount:		\$2,548,486
Total change orders as a percentage of original contract:		7.7%

<b>Summary of Change Orders:</b>		
	<b>Description</b>	<b>Amount</b>
	8-inch connection to a new development	
1	Modify connection at 6600 South 900 East Connect to a fire line at Wheeler Farm and add an additional main line valve	\$52,244
2	Delay cost due to mismarked waterline and extra utility potholes	\$7,973
3	Change installational method to open cut, suspend work	\$0
4	Cost for cobble rock encountered during directional drilling	\$43,501
5	PVC couplings for installation of fusible PVC in an open trench	\$28,780
6	Modify connection and install flowable fill at the Tanner Ditch Increase cost of directional drilling due to cobble rock	\$27,728
7	Modify connection at 5290 South 900 East to remove lead joints Move and modify air vac vault at 6000 and 6600 South 900 East	\$28,865
8	Gravel rock stabilization for unstable trenches due to high water	\$7,800
9	Increase in PVC cost due to resin shortages	\$7,910
10	Change 16-inch gate valve to butterfly valve	\$2,829
11	Additional cost to sample and dispose of contaminated material	\$7,679
12	Reconciliation of quantities and return of unused fusible PVC pipe	-\$32,373

**TOTAL CHANGE ORDER AMOUNT: \$182,936**

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Directional drilling near Wheeler Farm



Contaminated soils near 5600 South 900 East



Placement of a new valve vault



Open trench installation