

# **POLE CANYON RD & CENTER ST RE-ALIGNMENT**

## **POLE CANYON RD QUANTITY AND COST CHANGES**

### **Scope of Change and Quantity Clarifications**

August 22<sup>nd</sup>, 2022

#### **General Clarifications:**

- 1) This letter is a description of the quantity and cost to work changes that are being forecasted for the Pole Canyon Rd & Center St Re-Alignment Project.
- 2) The main quantity changes from the original bid item list are:
  - a. Updated Roadway Excavation quantities after 2 design changes since bid time. Original excavation quantity at bid time was stated to be 20,000 CY, updated modeling suggests 16,090 CY.
  - b. Updated Granular Borrow quantities after modeling the Granular Borrow section to extend 12" beyond the edge of the UTB section and accounting for the Granular Borrow shown in the Swales. Calculated 138 pounds per cubic foot.
    - i. Pole Canyon – Original: 13,700 TN – Updated: 19,700 TN
    - ii. Center St – Original: 2,100 TN – Updated: 4,367 TN
  - c. There was only a slight change in UTB quantities where Pole Canyon remained the same, but Center Street quantifies to 8,005 SY (7,700 SY originally).
- 3) The changes listed include the following:
  - a. The email from 6/29/2022 proposed an ADD-ON of \$250 to the SD Cleanout biditem to increase the Cleanout from 36" to 48" due to ability to run 24 Inch RCP at varying angles.
  - b. ADD-ON: EXCAVATION OVER HIGH PRESSURE GAS
    - i. The quantity of excavation over the high pressure gas line is estimated to be 3,564 CY. This extra price is to be paid in addition with the original bid item price. This work includes a laborer potholing up ahead of a spotter and excavator. This excavation is a 25-foot width at the depth of excavation required over the gas main. Instead of running scrapers to excavate and haul material, an excavator will be used to carefully remove material from the area above the gas main and load it into an offroad 745 articulating dump truck. A 745 has a payload of approximately 26 CY. Load counts will be tallied for quantity tracking.
  - c. ADD-ON: D8 W/RIPPER EXCAVATION
    - i. The original bid plans did not include a soil report that was informative enough to give Contractor notice existing ground condition and denseness of the in-situ soils. This additional cost is for the Cubic Yards of excavation outside of the High-Pressure Gas area of having a D8 dozer with a Ripper attachment to break the ground so normal excavation operations may run.
  - d. D8 W/RIPPER MOBILIZATION



- i. This is the cost of mobilizing a D8 Dozer for the ripping operation.
  - e. POLE CANYON: ADD-ON COST TO PLACE/COMPACT GB
    - i. Vibratory compaction is now not allowed for installation of the Granular Borrow section over the high-pressure gas line. This price is the add-on cost of estimated additional time needed to place and compact the Granular Borrow material. Scrapers are not being allowed to run over the gas-main area per Dominion, therefore the GB material will have to be dumped, pushed over the gas-main zone and static rolled.
  - f. POLE CANYON: ADD-ON COST TO PLACE/COMPACT UTBC
    - i. Vibratory compaction is now not allowed for installation of the UTBC section over the high-pressure gas line. This price is the add-on cost of estimated additional time needed to place and compact the UTBC material. Scrapers are not being allowed to run over the gas-main area per Dominion, therefore the UTB material will have to be dumped, pushed over the gas-main zone and static rolled.
- 4) The impact to the schedule is estimated to be 28 days:
  - a. 10 Days – stop time from unknown conditions being discovered when roadway design did not put into account location of high-pressure gas main and re-design to be approved by Dominion Energy.
  - b. 10 Days – Additional time expected to extend the project from slower production rates of excavation.
  - c. 5 Days – Additional time expected to extend the project from slower production rates of Granular Borrow installation.
  - d. 3 Days – Additional time expected to extend the project from slower production rates of UTBC installation.
  - e. The cost associated with extending a project affects the expected completion date of the project and also generates cost from Project Management and Superintendent time. 1 month cost of a Project Manager is \$16,683.63 and 1 month cost of a Superintendent is \$18,028.09.

 9/17/22  
James A. Welch  
Tooele County Manager

APPROVED AS TO FORM:

 08/31/2022  
Colin R. Winchester  
Deputy Tooele County Attorney



## **POLE CANYON RD & CENTER ST RE-ALIGNMENT**

### POLE CANYON RD QUANTITY AND COST CHANGES

Change and Quantity Summation  
August 22nd, 2022

#### 1.0 – Bid Item Quantity Changes

7 – ROADWAY EXCAVATION: 16,090 CY @ \$10.25/CY	\$164,922.50
9 – POLE CANYON RD GB: 19,700 TN @ \$19.00/TN	\$374,300.00
10 – CENTER ST GB: 4,367 TN @ \$19.00/TN	\$82,973.00
11 – POLE CANYON RD UTBC: 14,600 SY @ \$9.00/SY	\$131,400.00
12 – CENTER ST UTBC: 8,005 SY @ \$9.00/SY	\$72,045.00

Base Bid Quantity Change: Increase \$119,740.50

#### 2.0 – Change Order Items



101 – ADD-ON:		
	INCREASED SD CLEANOUT TO 48": 1 EA @ \$250.00/EA	\$250.00
102 – ADD-ON:		
	EXCAVATION OVER HIGH PRESSURE GAS: 3,564 CY @\$10.50/CY	\$37,422.00
103 – ADD-ON:		
	D8 W/ RIPPER EXCAVATION: 12,526 CY @ \$2.80/CY	\$35,072.80
104 – MOBILIZATION: D8 W/ RIPPER: 1 EA @ \$2,100.00/EA		\$2,100.00
105 – POLE CANYON ADD-ON:		
	EXTRA COST TO PLACE/COMPACT GB: 4,427 TN @ \$4.95/TN	\$21,913.65
106 – POLE CANYON ADD-ON:		
	EXTRA COST TO PLACE/COMPACT UTB: 3,564 SY @ \$4.00/SY	\$14,256.00
107 – DURATION ADDED: SUPER 1 MONTH @\$18,028.09/MO		\$18,028.09
108 – DURATION ADDED: P.M. 1 MONTH @\$16,683.63/MO		\$16,683.63

Change Order Total: \$145,726.17



# Tooele County Council Agenda Item Summary

**Department Making Request:**

Community Development

**Meeting Date:**

September 6, 2022

*Contract***Mark Options That Apply:** **Grant**  
*1 time* **Contract**  
*1 yr. or less* **Purchase**

Exp date: \_\_\_\_\_

 **Grant**  
*With County Match* **Contract**  
*More than 1 yr.*

Exp date: \_\_\_\_\_

**Budget Impact:** **In Budget** **Over Budget****Requested Amount:** \$ 265,466.67**Item Title:***Please answer the who? what? when? why?*

Granite Construction has issued a change order due to a change in the scope of work and material quantities. The high pressure Dominion gas line is more shallow than anticipated in spots causing the excavation and fill process for the road over the line to be more laborious. Due to the depth there is limited equipment that can be used on this section of the road. We are continuing to work with the contractor to minimize the additional cost. Please see the attached letter from Granite Construction explaining the cost increase.

This change order brings the project total to \$2,078,511.07. The amount requested for approval with the original contract to include a 20% contingency was \$2,175,653.28. The amount budgeted for this project is \$2,300,000.

**List who needs copies when approved:** Rachelle Custer