SNOHOMISH COUNTY DEPARTMENT OF PUBLIC WORKS

CHANGE ORDER JUSTIFICATION

CHANGE ORDER NUMBER
3
8/9/2021
Page 1 of 3

PROJECT: Index – Galena Road Flood Repair

PROJECT #: RC1532, RC1774, RR6322 **FED AID #** ER-071(063)

PROJECT ENGINEER: Sam Chi

WRITTEN JUSTIFICATION

1. DESCRIPTION OF CHANGE.

This Change Order adds one new item "Unsuitable Foundation Excavation" to compensate the Contractor for work associated with unsuitable foundation excavation and disposal, along with furnishing and backfilling the excavation with suitable foundation material.

2. WHAT IS REQUIRED BY CONTRACT? WHY THE CHANGE? (REFERENCE PLAN SHEETS & SPEC SECTIONS.)

Section 2-03.3(14)E states *'When the Contract or the Engineer requires it, the Contractor shall excavate unstable natural ground before building any embankment over it….If the Contract provides no Bid item for unsuitable foundation excavation, the Contracting Agency will pay as provided in Section 1-04.4.'*

The Geotechnical Design and Interpretive Report in Appendix A identified areas of potential unsuitable foundation excavation on the project; however, a bid item was not included in the Contract. This change order provides a payment mechanism to compensate the contractor for performing unsuitable foundation excavation, backfill, and disposal.

3. HOW IS CHANGE ORDER THE SOLUTION?

Due to the nature of the work, limits of unsuitable foundation excavation can vary in location, depth and backfill. Adding a force account bid item compensates the contractor for performing unknown quantities of work. Force account is an acceptable and agreed upon method to compensate for work, whether known or unknown.

4. ALTERNATIVE(S) CONSIDERED.

No alternatives were considered. Unsuitable foundation excavation near the surface or subgrade must be removed in order to construct roadway embankments.

5. REASON FOR ENTITLEMENT AND WHY IT CANNOT BE PAID UNDER EXISTING CONTRACT.

The Contract has other excavation bid items (roadway excavation and structure excavation); however, unsuitable foundation excavation differs in scope compared to existing bid items. Reusing unsuitable material such as clay in the roadway embankment is not acceptable and must be disposed of offsite. Materials used for backfilling unsuitable foundation excavation areas, such as quarry spalls, railroad ballast, and geotextile fabric, will take longer to place and may require different equipment and construction practices.

6. APPROVALS: PROJECT MANAGER, TECHNICAL ADVISOR (TRAFFIC, STRUCTURAL), JURISDICTION, OTHER AGENCY.

Standard change order approval (Construction Manager, Engineering Services Director).

7. TIME: INCREASE OR DECREASE WORKING DAYS.

Working days will not be assessed with this change order. Upon completing unsuitable foundation excavation for the project, additional working days will be evaluated and processed in a future change order.

CHANGE ORDER JUSTIFICATION

PROJECT: Index – Galena Road Flood Repair

PROJECT #: RC1532, RC1774, RR6322 **FED AID #** ER-071(063)

PROJECT ENGINEER: Sam Chi

8. COST: ESTABLISH OR VERIFY INCREASE OR DECREASE.
(CONTRACTOR PROPOSAL, ENGINEER'S ESTIMATE, NEGOTIATED, SUPPLIER, BID ITEM, ETC.)

An engineer's estimate (see attachment) was prepared based on an excavation section of 250 LF x 26' width x 3' depth. With unsuitable foundation excavation, the limits can vary depending on soil characteristics encountered. The new force account item will be setup with $85,000.

ATTACHED BACKUP DOCUMENTATION:
Engineer's Estimate, 1 page

SNOHOMISH COUNTY
DEPARTMENT OF PUBLIC WORKS

ENGINEER'S ESTIMATE

CHANGE ORDER NUMBER
3
8/9/2021
Page 3 of 3

PROJECT NAME: Index-Galena Road Flood Repair

PROJECT NUMBER: RC 1532, RC1774, RR6322

PROJECT ENGINEER: Sam Chi

FED AID NUMBER: ER-071 (063)

ITEM NO.	GROUP NO.	DESCRIPTION	UNIT MEAS.	UNIT PRICE	EST. QUANTITY	EST. CHANGE
175	1	UNSUITABLE FOUNDATION EXCAVATION	EST.	$ 1.00	85,000.00	$ 85,000.00
		Basis of Estimate				
		Excavation: 250 LF x 26 W x 3' D = 19,500 cf = 722 cy @ $50/cy = **$36,100**				
		RR Ballast Backfill: 722 cy @ 1.6T/CY = 1155 tons x $40/ton = **$46,200**				
		Geotextile: 220 LF x 26 W x 2 = 11,400 sf = 1,270 sy @ $5/sy = **$6,400**				
		Estimate Total = $88,700				
			TOTAL			**$85,000.00**