

Table 1 - Final Adjusting Change Order (Change Order #2) Supplemental Information

Sanitary Sewer from West I-65 to East I-65
City of Franklin, Tennessee
H & D Project No. 1082-03
Bid Date: Friday, September 23, 2016, at 11:00 a.m. local time
Contract Awarded To: Dynamic Construction, LLC

Final Adjusting Change Order (Change Order #2)

Item	Description	Original Contract				Construction/As-Built Amounts		Amount Over/Under	
		Qty	Unit	Unit Price	Bid Value (\$)	Actual Qty.	Actual Value (\$)	Qty.	Amount (\$)
1	Temporary Facilities and Controls	1	LS	\$ 40,000.00	\$ 40,000.00	1.00	\$ 40,000.00	-	\$ -
2	Seeding	5,380	LF	\$ 1.50	\$ 8,070.00	4,589.00	\$ 6,883.50	(791.00)	\$ (1,186.50)
3	Erosion & Sediment Control	1	LS	\$ 13,000.00	\$ 13,000.00	1.00	\$ 13,000.00	-	\$ -
4	Additional Crushed Stone Refill - No. 67 stone, where directed by the Owner or Engineer	150	CY	\$ 40.00	\$ 6,000.00	111.10	\$ 4,444.00	(38.90)	\$ (1,556.00)
5	Contingency	1	LS	\$ 50,000.00	\$ 50,000.00	0.8528	\$ 42,640.85	(0.1472)	\$ (7,359.15)
6	12-inch DIP CL 350 w/Protecto 401 lining Gravity Sewer	50	LF	\$ 151.10	\$ 7,555.00	15.00	\$ 2,266.50	(35.00)	\$ (5,288.50)
7	12-inch PVC SDR 26 Gravity Sewer	835	LF	\$ 90.20	\$ 75,317.00	831.00	\$ 74,956.20	(4.00)	\$ (360.80)
8	8-inch PVC SDR 26 Gravity Sewer (*See note 1)	2,890	LF	\$ 90.80	\$ 262,412.00	2,825.50	\$ 256,555.40	(64.50)	\$ (5,856.60)
9	8-inch DIP CL 350 w/Protecto 401 lining Gravity Sewer (*See note 1)	251	LF	\$ 99.40	\$ 24,949.40	250.00	\$ 24,850.00	(1.00)	\$ (99.40)
10	54-inch diameter liner plate tunnel installed beneath I-65 including 12-inch DIP CL 350 Gravity Sewer & 12-inch C900 DR 25 Reclaimed Water Line	330	LF	\$ 2,130.00	\$ 702,900.00	369.25	\$ 786,500.00	39.25	\$ 83,600.00
11	8" PVC SDR 26 Gravity Sewer installed inside existing 16-inch casing, complete including casing spacers and end seals	80	LF	\$ 63.90	\$ 5,112.00	80.00	\$ 5,112.00	-	\$ -
12	4' diameter Precast Manhole, 0 - 6' depth	19	EA	\$ 3,200.00	\$ 60,800.00	19.00	\$ 60,800.00	-	\$ -
13	4' diameter Precast Manhole Sidewall, greater than 6' depth	60	VF	\$ 215.00	\$ 12,900.00	78.50	\$ 16,877.50	18.50	\$ 3,977.50
14	6" PVC SDR 26 Gravity Sewer Service Line (*See note 2)	12	EA	\$ 1,640.00	\$ 19,680.00	12.00	\$ 19,680.00	-	\$ -
15	Manhole Vent Assembly	3	EA	\$ 4,210.00	\$ 12,630.00	3.00	\$ 12,630.00	-	\$ -
16	Watertight Manhole Casting	5	EA	\$ 1,050.00	\$ 5,250.00	4.00	\$ 4,200.00	(1.00)	\$ (1,050.00)
17	Connect to existing manhole	1	EA	\$ 2,100.00	\$ 2,100.00	1.00	\$ 2,100.00	-	\$ -
18	New exterior drop assembly on existing manhole	1	EA	\$ 3,040.00	\$ 3,040.00	1.00	\$ 3,040.00	-	\$ -
19	Concrete Encasement	75	LF	\$ 30.00	\$ 2,250.00	10.00	\$ 300.00	(65.00)	\$ (1,950.00)
20	CCTV Inspection of New Gravity Sewer	4,430	LF	\$ 1.50	\$ 6,645.00	4,371.50	\$ 6,557.25	(58.50)	\$ (87.75)
21	12" C900 DR 25 PVC Reclaimed Water Line (*See note 1)	3,050	LF	\$ 61.40	\$ 187,270.00	3,019.00	\$ 185,366.60	(31.00)	\$ (1,903.40)
22	Bore & jack 24" steel casing w/ 12" C900 DR 25 PVC reclaimed water including casing spacers and end seals	100	LF	\$ 500.00	\$ 50,000.00	100.00	\$ 50,000.00	-	\$ -
23	12" gate valve with valve box assembly	5	EA	\$ 3,620.00	\$ 18,100.00	5.00	\$ 18,100.00	-	\$ -

Table 1 - Final Adjusting Change Order (Change Order #2) Supplemental Information

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		Qty	Unit	Unit Price	Bid Value (\$)	Actual Qty.	Actual Value (\$)	Qty.	Amount (\$)
24	8" x 8" tapping sleeve and valve on existing reclaimed water line	1	EA	\$ 5,270.00	\$ 5,270.00	1.00	\$ 5,270.00	-	\$ -
25	2" blow-off assembly	1	EA	\$ 2,150.00	\$ 2,150.00	1.00	\$ 2,150.00	-	\$ -
26	Ductile iron fittings for reclaimed water line	1,500	LBS	\$ 10.00	\$ 15,000.00	1,417.70	\$ 14,177.00	(82.30)	\$ (823.00)
27	Mineral Aggregate, Type A, Grading D (303-01) (See Note 3)	500	TON	\$ 25.90	\$ 12,950.00	388.20	\$ 10,054.38	(111.80)	\$ (2,895.62)
28	Asphalt Concrete Mix (PG70-22), Grading B-M2 (307-02.08) (See Note 3)	500	TON	\$ 98.70	\$ 49,350.00	519.56	\$ 51,280.57	19.56	\$ 1,930.57
29	Bituminous Material for Tack Coat (TC) (403-01) (See Note 3)	2	TON	\$ 1,160.00	\$ 2,320.00	0.00	\$ -	(2.00)	\$ (2,320.00)
30	Asphalt Surface Mix (PG70-22) (1.5" depth) - full width overlay (411-02.10) (See Note 3)	375	TON	\$ 112.00	\$ 42,000.00	461.00	\$ 51,632.00	86.00	\$ 9,632.00
31	Cold Planing (Milling) (415-01.02) (See Note 3)	3,150	SY	\$ 4.00	\$ 12,600.00	4,243.00	\$ 16,972.00	1,093.00	\$ 4,372.00
					\$ 1,717,620.40		\$1,788,395.75		\$ 70,775.35

NOTE 1: The value of the Original Contract Amount = \$1,717,620.40

NOTE 2: The Final Contract Amount (based on the actual quantities of materials installed) = \$1,788,395.75

NOTE 3: Based on information stated in NOTE 1 and NOTE 2, the value of the Final Adjusting Change Order = + \$70,775.35



December 14, 2017

Re: Sanitary Sewer from West I- 65 to East I- 65

The following is a recap of this morning's meeting.

The bore length increase from a plan quantity of 330 linear feet to 370 linear feet for the following reasons:

1. On the west side of the bore there is a water line, gas line, and power pole that necessitated the bore pit be moved further to the west.
2. The plan shows the casing pipe starting approximately 15 feet behind the sidewalk. This is on the road side of the power pole.
3. The makeup of the existing material to be excavated was very unstable. As discussed before, using casing pipe in lieu of tunnel liner was fortunate. As the bore advanced under Old Peytonsville Road, the existing fill material began to fall in. We were able to push the casing forward to prevent further loss of existing fill. Had we used tunnel liner that would not have been the case. By the time the next section of tunnel liner would have been bolted together much more fill would have collapsed conceivably causing the road to fail. Similarly, had we excavated the bore pit closer to the road, that same material would be disturbed and exposed over a long period of time possibly resulting in road failure.

The bore has taken longer than expected for the following reasons:

1. Heavy rains produced an inordinate amount of ground water making working conditions inside the casing pipe extremely difficult thereby spending additional time.
2. Because of the makeup of the existing ground the original bore went off line damaging the cutting head. We had to begin blasting and tunneling to bring the casing back to the original alignment. As the material was not solid rock small shots had to be used to disturb as little of the existing fill as possible. A number of the shots did not remove the material needed to achieve the realignment resulting in the need to perform quite a bit of hand breakage using an air spade.