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May 7, 2021
 31595

Clarence Daugherty, P.E.
 Collin County Engineering Department
 4690 Community Ave., Suite 200
 McKinney, TX 75071

RE: Dallas North Tollway Southbound Frontage Road – Change Order #6
 Collin County Contract No. 2018-203

Dear Mr. Daugherty:

Halff recommends the following Change Order #6 modifications to the Dallas North Tollway Southbound Frontage Road project. This change order is intended to be the final change order for the contact.

1. Final Quantities Based on As-built Conditions

DEDUCTIONS									
ITEM NO.	SPEC REF	SP	ITEM DESCRIPTION	CONTRACT QUANTITY THRU CO#5	FINAL ADJUSTMENT	FINAL QUANTITY	UNIT	CONTRACT CHANGE - CO#6	
								UNIT BID PRICE	SUBTOTAL BID COST
2	104		REMOVING CONC (PAV)	9,995.00	(293.40)	9,701.60	SY	\$ 6.00	\$ (1,760.40)
3	105		REMOV STAB BASE AND ASPH PAV (3"-9")	14,142.00	(244.00)	13,898.00	SY	\$ 4.00	\$ (976.00)
8	164		BROADCAST SEED (PERM) (RURAL) (CLAY)	291,589.00	(29,014.00)	262,575.00	SY	\$ 0.10	\$ (2,901.40)
11	168		VEGETATIVE WATERING	54,342.00	(49,118.64)	5,223.36	MG	\$ 0.25	\$ (12,279.66)
12	216		PROOF ROLLING	50.00	(50.00)	0.00	HR	\$ 70.00	\$ (3,500.00)
14	341	001	D-GR HMA TY-B PG64-22	1,188.00	(58.00)	1,130.00	TN	\$ 91.05	\$ (5,280.90)
48	464		RC PIPE (CL III)(24 IN)	1,643.00	(29.00)	1,614.00	LF	\$ 60.00	\$ (1,740.00)
49	464		RC PIPE (CL III)(27 IN)	1,313.00	(55.00)	1,258.00	LF	\$ 61.00	\$ (3,355.00)
50	464		RC PIPE (CL III)(30 IN)	1,353.00	(63.00)	1,290.00	LF	\$ 75.00	\$ (4,725.00)
89	502		BARRICADES, SIGNS AND TRAFFIC HANDLING	24.00	(4.00)	20.00	MO	\$ 5,000.00	\$ (20,000.00)
92	506		ROCK FILTER DAMS (REMOVE)	1,883.00	(1,541.00)	342.00	LF	\$ 5.00	\$ (7,705.00)
93	506		CONSTRUCTION EXITS (INSTALL) (TY 1)	3,134.00	(2,856.23)	277.77	SY	\$ 20.00	\$ (57,124.60)
94	506		CONSTRUCTION EXITS (REMOVE)	3,134.00	(2,856.23)	277.77	SY	\$ 4.00	\$ (11,424.92)
95	506		TEMP SEDMT CONT FENCE (INSTALL)	31,118.00	(7,821.00)	23,297.00	LF	\$ 1.15	\$ (6,994.15)
96	506		TEMP SEDMT CONT FENCE (REMOVE)	31,118.00	(7,821.00)	23,297.00	LF	\$ 0.05	\$ (391.05)
97	508		CONSTRUCTING DETOURS	1,631.00	(21.50)	1,609.50	SY	\$ 65.00	\$ (1,397.50)
99	540		MTL W-BEAM GD FEN (STEEL POST)	3,669.00	(383.50)	3,285.50	LF	\$ 25.00	\$ (9,587.50)
101	540		SHORT RADIUS	66.00	(42.00)	24.00	LF	\$ 25.25	\$ (1,060.50)
104	544		GUARDRAIL END TREATMENT (INSTALL)	18.00	(2.00)	16.00	EA	\$ 2,425.00	\$ (4,850.00)
107	618		CONDT (PVC) (SCH 40) (2")	171.00	(147.00)	24.00	LF	\$ 5.00	\$ (735.00)
110	618		CONDT (PVC) (SCH 40) (4") (BORE)	1,584.00	(83.00)	1,501.00	LF	\$ 20.00	\$ (1,660.00)
113	620		ELEC CONDR (NO 8) INSULATED	10,030.00	(856.00)	9,174.00	LF	\$ 0.95	\$ (813.20)
114	620		ELEC CONDR (NO 6) BARE	3,270.00	(38.00)	3,232.00	LF	\$ 1.00	\$ (38.00)
115	620		ELEC CONDR (NO 6) INSULATED	11,878.00	(5,152.00)	6,726.00	LF	\$ 1.20	\$ (6,182.40)
116	624		GROUND BOX TY D (162922)W/APRON	26.00	(1.00)	25.00	EA	\$ 850.00	\$ (850.00)
117	624		GROUND BOX TY E (122317)W/APRON	4.00	(1.00)	3.00	EA	\$ 830.00	\$ (830.00)
123	644		IN SM RD SN SUP&AM TY10BWG(1)SA(T)	14.00	(1.00)	13.00	EA	\$ 607.00	\$ (607.00)

126	644		IN SM RD SN SUP&AM TYTWT(1)UA(P)	25.00	(2.00)	23.00	EA	\$	385.00	\$	(770.00)
131	662		WK ZN PAV MRK NON-REMOV (W)4"(SLD)	1,200.00	(1,200.00)	0.00	LF	\$	1.35	\$	(1,620.00)
132	662		WK ZN PAV MRK NON-REMOV (Y)4"(SLD)	2,500.00	(2,500.00)	0.00	LF	\$	1.35	\$	(3,375.00)
134	662		WK ZN PAV MRK REMOV (W)4"(DOT)	80.00	(80.00)	0.00	LF	\$	2.20	\$	(176.00)
135	662		WK ZN PAV MRK REMOV (W)4"(SLD)	7,016.00	(5,200.00)	1,816.00	LF	\$	1.30	\$	(6,760.00)
136	662		WK ZN PAV MRK REMOV (W)8"(DOT)	65.00	(65.00)	0.00	LF	\$	4.00	\$	(260.00)
137	662		WK ZN PAV MRK REMOV (W)8"(SLD)	282.00	(282.00)	0.00	LF	\$	3.45	\$	(972.90)
138	662		WK ZN PAV MRK REMOV (W)24"(SLD)	382.00	(73.00)	309.00	LF	\$	10.00	\$	(730.00)
139	662		WK ZN PAV MRK REMOV (Y)4"(SLD)	7,315.00	(4,469.00)	2,846.00	LF	\$	1.30	\$	(5,809.70)
140	666	007	REFL PAV MRK TY I (W)4"(BRK)(100MIL)	16,095.00	(84.00)	16,011.00	LF	\$	0.65	\$	(54.60)
142	666	007	REFL PAV MRK TY I (W)4"(SLD)(100MIL)	8,062.80	(1,482.80)	6,580.00	LF	\$	0.55	\$	(815.54)
143	666	007	REFL PAV MRK TY I (W)8"(DOT)(100MIL)	303.00	(135.00)	168.00	LF	\$	2.20	\$	(297.00)
144	666	007	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	7,462.00	(831.00)	6,631.00	LF	\$	1.45	\$	(1,204.95)
145	666	007	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	1,930.00	(720.00)	1,210.00	LF	\$	3.25	\$	(2,340.00)
146	666	007	REFL PAV MRK TY I (W)(ARROW)(100MIL)	74.00	(3.00)	71.00	EA	\$	125.00	\$	(375.00)
149	666	007	REFL PAV MRK TY I (Y)4"(SLD)(100MIL)	14,685.30	(454.30)	14,231.00	LF	\$	0.55	\$	(249.87)
150	666	007	REFL PAV MRK TY I (Y)12"(SLD)(100MIL)	3,679.50	(604.50)	3,075.00	LF	\$	3.25	\$	(1,964.63)
151	672		REFL PAV MRKR TY I-C	296.00	(175.00)	121.00	EA	\$	5.75	\$	(1,006.25)
152	672		REFL PAV MRKR TY IIA-A	298.00	(25.00)	273.00	EA	\$	5.75	\$	(143.75)
153	672		REFL PAV MRKR TY IIC-R	2,120.00	(98.00)	2,022.00	EA	\$	5.75	\$	(563.50)
154	677		ELIM EXT PAV MRK & MRKS (4")	71,732.00	(11,467.00)	60,265.00	LF	\$	0.38	\$	(4,357.46)
156	677		ELIM EXT PAV MRK & MRKS (12")	2,127.00	(306.00)	1,821.00	LF	\$	1.00	\$	(306.00)
162	678		PAV SURF PREP FOR MRK (12")	5,856.00	(369.00)	5,487.00	LF	\$	0.65	\$	(239.85)
169	682		VEH SIG SEC (12")LED(GRN)	44.00	(3.00)	41.00	EA	\$	230.00	\$	(690.00)
171	682		VEH SIG SEC (12")LED(YEL)	44.00	(3.00)	41.00	EA	\$	230.00	\$	(690.00)
173	682		VEH SIG SEC (12")LED(RED)	44.00	(3.00)	41.00	EA	\$	230.00	\$	(690.00)
175	682		BACK PLATE (12")(3 SEC)	44.00	(3.00)	41.00	EA	\$	140.00	\$	(420.00)
179	684		TRF SIG CBL (TYA)(14 AWG)(20 CONDR)	3,710.00	(443.00)	3,267.00	LF	\$	4.50	\$	(1,993.50)
184	856		MOISTURE TREATED SUBGRADE	78,202.00	(3,467.00)	74,735.00	CY	\$	1.25	\$	(4,333.75)
207	247		FLEX BASE TYPE D GRADE 1 OR 2 WITH 8 MIL	130,037.00	(678.00)	129,359.00	SY	\$	7.35	\$	(4,983.30)
210	666		REFL PAV MRK TY I (W)24"(SLD)(100MIL)	1,090.70	(163.70)	927.00	LF	\$	7.00	\$	(1,145.90)
213	0		CONNECT TO EXISTING RCP	5.00	(1.00)	4.00	EA	\$	2,750.00	\$	(2,750.00)
221	506		INLET PROTECTION DEVICE	86.00	(6.00)	80.00	EA	\$	175.00	\$	(1,050.00)
227	666		PAVEMENT SEALER 4" (RFP#15)	38,674.00	(1,680.00)	36,994.00	LF	\$	0.14	\$	(232.35)
229	666		PAVEMENT SEALER 12" (RFP#15)	4,873.00	(588.00)	4,285.00	LF	\$	0.88	\$	(515.05)
232	666		PAVEMENT SEALER (DBL ARROW) (RFP#15)	9.00	(2.00)	7.00	EA	\$	50.71	\$	(101.42)
234	496		REMOV STR (SMALL FENCE)	1,000.00	(270.00)	730.00	LF	\$	2.13	\$	(575.10)
TOTAL DEDUCTIONS:										\$	(225,331.55)

ADDITIONS									
ITEM NO.	DESC.	SP	ITEM DESCRIPTION	CONTRACT QUANTITY THRU CO#5	FINAL ADJUSTMENT	FINAL QUANTITY	UNIT	CONTRACT CHANGE - CO#6	
								UNIT BID PRICE	SUBTOTAL BID COST
16	360		CURB (TYPE II)	65,200.00	51.00	65,251.00	LF	\$ 1.00	\$ 51.00
28	432		RIPRAP (CONC)(CL B)(RR8&RR9)	165.00	4.19	169.19	CY	\$ 470.00	\$ 1,969.30
47	464		RC PIPE (CL III)(21 IN)	340.00	41.00	381.00	LF	\$ 58.00	\$ 2,378.00
90	506		ROCK FILTER DAMS (INSTALL) (TY2)	625.00	25.00	650.00	LF	\$ 22.00	\$ 550.00
103	540		MTL BM GD FEN (LONG SPAN SYSTEM)	213.00	2.50	215.50	LF	\$ 22.00	\$ 55.00
128	644		IN SM RD SN SUP&AM (INST SIGN ONLY)	17.00	3.00	20.00	EA	\$ 175.00	\$ 525.00
141	666	007	REFL PAV MRK TY I(W)4"(DOT)(100MIL)	118.00	54.00	172.00	LF	\$ 2.00	\$ 108.00
160	678		PAV SURF PREP FOR MRK (4")	40,071.00	1,025.00	41,096.00	LF	\$ 0.12	\$ 123.00
177	684		TRF SIG CBL (TY A)(14 AWG)(5 CONDR)	3,404.00	302.00	3,706.00	LF	\$ 1.10	\$ 332.20
178	684		TRF SIG CBL (TY A)(14 AWG)(7 CONDR)	926.00	441.00	1,367.00	LF	\$ 1.50	\$ 661.50
180	686		INS TRF SIG PL AM (S)LUM ARM(8')	8.00	4.00	12.00	EA	\$ 500.00	\$ 2,000.00
205	6155		RADAR COMMUNICATION CABLE	8,336.00	249.00	8,585.00	LF	\$ 2.70	\$ 672.30
TOTAL ADDITIONS:									\$ 9,425.30

The above is a comprehensive list of underruns and overruns of various pay items at the conclusion of construction activities.

2. Signal Repairs

NEW ITEMS									
ITEM NO.	DESC.	SP	ITEM DESCRIPTION	CONTRACT QUANTITY THRU CO#5	FINAL ADJUSTMENT	FINAL QUANTITY	UNIT	CONTRACT CHANGE - CO#6	
								ESTIMATED UNIT BID PRICE	SUBTOTAL COST
236	0	000	Permanent Signal Repair Work First St (MSSEI RFP #18B)	0	1	1	LS	\$ 49,904.00	\$ 49,904.00
237	0	000	Temporary Signal Repair Work Frontier Pkwy (MSSEI RFP #20)	0	1	1	LS	\$ 43,180.29	\$ 43,180.29
TOTAL NEW ITEMS:									\$ 93,084.29

The above costs are due to the work necessary to repair the damage to traffic signal systems at First Street and Frontier Parkway caused by a third-party contractor and by an automobile accident, respectively. The work at First Street is for the permanent repair of the signal to repair cabling, conductors, and cabinet equipment damaged by electrical short. The costs of the First Street work are included in the Town of Prosper's cost responsibility for expanded improvements at First Street. The work at Frontier included replacing the newly installed permanent signal controller (which was destroyed in the accident) with a temporary controller and restoring the signal to an all-red flashing operation. Permanent signal repair is being removed from this contract and record drawings will be annotated to reflect this change in the project's contractual performance requirements.

3. Elimination of Liquidated Damages Conditions from this Contract

It is recommended by this Change Order that Liquidated Damages for failure to meet Final Completion requirements be stricken from the Contract. The Contractor met Substantial Completion requirements by opening the roadway to traffic in January 2020. Circumstances related to the two aforementioned traffic signal repairs and the COVID-19 pandemic make it impractical to assess liquidated damages and/or establish an accurate accounting of an additional number of contract days warranted.

We recommend the following wording be included in the Change Order document:

The following sections in the Contract are hereby revised by this Change Order as follows:

- SECTION 002113 – INSTRUCTIONS TO BIDDERS
 - Section 1.31-*Damages* - Part 'A' is removed in its entirety and not replaced.

- SECTION 005213 – CONSTRUCTION AGREEMENT
 - Subsection 5.4.2-*Liquidated Damages for Failure to Complete On Time* – This clause is removed in its entirety and not replaced.

4. Mathematical Contract Amount Correction

There was a mathematical error in Change Order #5 that incorrectly revised the contract amount downward by an amount of \$61.71. This amount is included in this change order to establish a final contract amount that is consistent with the final quantity and pay item unit price values.

The net increase (decrease) to the Dallas North Tollway Southbound Frontage Road project cost by this Change Order is **\$(122,760.25)**.

Should you have any questions or require any additional information, please do not hesitate to contact me.

Sincerely,
HALFF ASSOCIATES, INC.



Dennis D. Satre, P.E.
Vice President