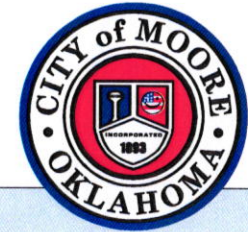




# CDBG-DR 13 CHANGE ORDER OR WORK ORDER AMENDMENT



Project Information					
<b>Project Name</b>	Plaza Tower Street Repair				
<b>Work Order Number (CDBG-DR 01)</b>	I-02-W-URG	<b>Project Address</b>	Eagle Dr, SW 10 <sup>th</sup> , Ridgeway DR, SW 8 <sup>th</sup> , Cardan Pl.		
<b>Date</b>	8/30/2017	<b>Requested By</b>	Rudy Construction		
<b>Date Requested</b>	8/29/2017	<b>Total Budget</b>	\$3,565,930.14	<b>Cost of Change</b>	-659,476.68

Change Order Type - Description				
<b>Circle Type:</b>	Field	Change	Work Order Amendment	

**Budget Line Items Affected: (List All)**

**Change in Quantities:**





- 213-03 Crushed Rock Foundation, \$70/CY, Quantity decreased by 1,787.75, New Quantity 3,522.25
- 304-04 Portland Cement Conc. Pavement, \$55/SY, Quantity decreased by 2,922.81, New Quantity 20,213.19
- 305-00 Curb & Gutter, \$20/LF, Quantity decreased by 363, New Quantity 13,835
- 812-02 Remove Curb & Gutter, \$7/LF, Quantity increased by 10, New Quantity 10,924.08
- 823-00 Sidewalk (5'), \$55/SY, Quantity decreased by 32.78, New Quantity 1,116.22
- 453-00 Reinforced Concrete Pipe (18"), \$70/LF, Quantity decreased by 275, New Quantity 0
- 454-34 Design 2-0 Inlet Complete in Place, \$4,000/each, Quantity decreased by 2, New Quantity 0
- 454-63 Grated Street Inlet (26' Wide) \$17,500/each, Quantity decreased by 1, New Quantity 2
- 811-16 Structural Removal (RCP), \$15/LF, Quantity decreased by 123, New Quantity 622
- 740-09 Construction Barricades (Type III), \$10/SD, Quantity decreased by 367, New Quantity 1,833
- 740-10 Warning Lights ( Type A), \$1/SD, Quantity decreased by 1,728.00, New Quantity 2,672

740-14 Channelizer Cones, \$1.50/SD, Quantity decreased by 2,804, New Quantity 6,196  
 453-04 Reinforced Concrete Pipe (48"), \$240/LF, Quantity increased by 5.30, New Quantity 243  
 Mailbox Remove & Replace, \$500/each, Quantity decreased by 51, New Quantity 3  
 CCTV Inspection \$2/LF, Quantity decreased by 53, New Quantity 518  
 453-12 Reinforced Concrete 18" O-Ring, \$85/LF, Quantity decreased by 175, New Quantity 0  
 464-03 HDPE Pipe (30")(SP), \$110/LF, Quantity decreased by 8, New Quantity 271  
 212-01 Trench Excavation & Backfill \$30/CY, Quantity decreased by 2.4, New Quantity 902.60  
 213-01 Crushed Rock Foundation, \$70/CY, Quantity decreased by .99, New Quantity 109.01  
 215-08 Rock Backfill \$40/Ton, Quantity decreased by 158.65, New Quantity 291.35  
 740-05 Construction Signs (6.25-15.99), \$5/SD, Quantity decreased by 301, New Quantity 396  
 1000-22 Front End Loader w/ operator \$200/HR, Quantity decreased by 3, New Quantity 47  
 305-02 Integral Curb (6")>500', \$10/LF, Quantity decreased by 3,283, New Quantity 0  
 453-02 Reinforced Concrete Pipe (36") \$150/LF, Quantity decreased by 15, New Quantity 762  
 453-12 Reinforced Concrete Pipe 18" O-Ring \$85/LF, Quantity decreased by 1,662, New Quantity 21  
 453-14 Reinforced Concrete Pipe 36" O-Ring \$160/LF, Quantity decreased by 1, New Quantity 74  
 729-00 Sheet Aluminum Sign Panels \$30/LF, Quantity decreased 12, New Quantity 45  
 733-00 Square Steel Sign Post \$115/each, Quantity decreased 6, New Quantity 8  
 735-00 Traffic Stripe (4" wide) \$1.20/LF, Quantity increased by 447, New Quantity 4,050  
 737-00 12" Wide Crosswalk striping \$7.50/LF, Quantity decreased by 102, New Quantity 106  
 740-06 Construction Signs (33.0 SF & Over), \$2.25/SD, Quantity decreased by 400, New Quantity 0  
 830-01 Tactile Markers/Truncated Domes, \$25/SF, Quantity decreased by 40, New Quantity 20  
 900-03 Filter Fabric Silt Fence \$2/LF, Quantity decreased by 525, New Quantity 0  
 Seeding in lieu sodding \$1.35/each, Quantity decreased by 23,963, New Quantity 0  
 213-01 Crushed Rock Foundation, \$70/CY, Quantity decreased by 44.32, New Quantity 25.68  
 453-00 Reinforced Concrete Pipe (18"), \$70/LF, Quantity decreased by 2, New Quantity 98  
 825-00 12" (Type 1) Rip Rap \$65/Ton, Quantity decreased by 3.57, New Quantity 21.43

Mobilization decreased to \$233,285.15

**Change Description**

Not all of the original line items were utilized during the course of the project, while others were added as the project progressed. This resulted in some of the line items showing underruns (not used at all or used with a lesser quantity than originally estimated), and others showing as overruns (added items via change order or items whose quantity exceeded the original estimated quantity). The line item quantities as shown on the "final" estimate are the "as constructed" quantities measured and approved by the inspector.

Field Change Order			
Field Change Order Authorization ONLY Vendor Signature		Date	
Field Change Order Authorization ONLY Project Manager Signature		Date	
Change Order			
Change Order Authorization ONLY Vendor Signature		Date	
Change Order Authorization ONLY Project Manager Signature		Date	
Change Order Authorization ONLY Project Supervisor Signature		Date	
Work Order Amendment			
Work Order Amendment Authorization ONLY Vendor Signature		Date 9-6-17	8/30/2017
Work Order Amendment Authorization ONLY Project Manager Signature		Date	8/30/2017
Work Order Amendment Authorization ONLY Project Supervisor Signature		Date	8/30/2017
Work Order Amendment Authorization ONLY CDBG Manager		Date	8/30/2017

	A	B	C	D	E	F	G	H	I	J
1	PAGE ONE: History of Changes Occurring									
2										
3						(D*E)	CHANGE ORDER 01	CHANGE ORDER 02	CHANGE ORDER 03	(I-F)
4	Pay Item #	Item Description	Unit	Estimated Quantity	Unit Price	Estimated Cost	Quantity Changed by	Quantity Changed by		TOTAL QUANTITY TO DATE
5	200-00	Unclassified Excavation (>500 CY)	CY	11,335.00	15.00	170,025.00	4,987.00	7,530.08		23,852.08
6	213-03	Crushed Rock Foundation (Crusher Run)(1.5")	CY	5,135.00	70.00	359,450.00	175.00		-1,787.75	3,522.25
7	304-04	Portland Cement Conc. Pavement (6")(>500)	SY	18,015.00	55.00	990,825.00	5,121.00		-2,922.81	20,213.19
8	305-00	Curb & Gutter (2'-8")(6" Barrier>(>500')	LF	14,198.00	20.00	283,960.00			-363.00	13,835.00
9	812-02	Remove Curb & Gutter	LF	10,748.00	7.00	75,236.00		166.08	10.00	10,924.08
10	812-03	Concrete Pavement Removal	SY	12,850.00	10.00	128,500.00		665.68		13,515.68
11	813-00	Remove Driveway	SY	2,973.00	10.00	29,730.00		265.73		3,238.73
12	820-01	Sawcut Pavement	LF	650.00	4.00	2,600.00		5,135.99		5,785.99
13	823-00	Sidewalk (5')	SY	667.00	55.00	36,685.00	482.00		-32.78	1,116.22
14	823-03	6" PC Conc. Driveway (HES)	SY	2,973.00	65.00	193,245.00		461.42		3,434.42
15	824-01	Temporary Surface Course (TBSC)	Ton	364.00	40.00	14,560.00		447.43		811.43
16	840-04	Solid Slab Sodding (U-3 Bermuda)	SY	6,420.00	3.00	19,260.00	-1,629.00	4,998.34		9,789.34
17	453-00	Reinforced Concrete Pipe (18")	LF	175.00	70.00	12,250.00	100.00		-275.00	0.00
18	454-34	Design 2-0 Inlet Complete in Place	EA	1.00	4,000.00	4,000.00	1.00		-2.00	0.00
19	454-63	Grated Street Inlet (26' Wide)	EA	2.00	17,500.00	35,000.00	1.00		-1.00	2.00
20	811-16	Structure Removal (RCP)	LF	745.00	15.00	11,175.00			-123.00	622.00
21	740-09	Construction Barricades (Type III)	SD	1,800.00	10.00	18,000.00	400.00		-367.00	1,833.00
22	740-10	Warning Lights (Type A)	SD	3,600.00	1.00	3,600.00	800.00		-1,728.00	2,672.00
23	740-14	Channelizer Cones	SD	9,000.00	1.50	13,500.00			-2,804.00	6,196.00
24	453-04	Reinforced Concrete Pipe (48")	LF	570.00	240.00	136,800.00		-332.30	5.30	243.00
25	454-30	Junction Box (6' x 6')	CY	9.00	850.00	7,650.00		7.54		16.54
26		Mailbox Remove & Replace	EA	54.00	500.00	27,000.00			-51.00	3.00
27		Survey & Staking as needed	EA	5.00	1,250.00	6,250.00	1.00	13.00		19.00
28		CCTV Inspection	LF	571.00	2.00	1,142.00			-53.00	518.00
29	740-03	Construction Sign (0-6.25SF)	SD	0.00	1.00	0.00		1,131.00		1,131.00
30	740-05	Construction Sign (16-32.99SF)	SD	0.00	5.00	0.00		1,453.00		1,453.00
31	453-12	Reinforced Concrete 18" O-Ring	LF	0.00	85.00	0.00		175.00	-175.00	0.00
32	453-13.5	Reinforced Concrete Pipe 30" O-Ring	LF	0.00	132.50	0.00		56.00		56.00
33	460-00	Setting New Manhole Ring & Cover	Each	0.00	750.00	0.00		4.00		4.00
34	464-03	HDPE Pipe (30")(SP)	LF	0.00	110.00	0.00		279.00	-8.00	271.00
35	212-01	Trench Excavation & Backfill (0'-10')	CY	0.00	30.00	0.00		905.00	-2.40	902.60
36	213-01	Crushed Rock Foundation	CY	0.00	70.00	0.00		110.00	-0.99	109.01

	A	B	C	D	E	F	G	H	I	J
37	215-08	Rock Backfill	Ton	0.00	40.00	0.00		450.00	-158.65	291.35
38		Field Design Sewer/Junction Box	LS	0.00	8,350.00	0.00		1.00		1.00
39	826-08	Perforated Underdrain Pipe (6")	LF	0.00	20.00	0.00		97.00		97.00
40	202-00	Borrow	CY	0.00	35.00	0.00		336.53		336.53
41	825-02	3" Surge (Type) Filter Blanket	Ton	0.00	60.00	0.00		7.08		7.08
42	900-03	Filter Fabric Silt Fence	LF	0.00	2.00	0.00		32.00		32.00
43	729-10	Remove & Relocate Sign	Each	0.00	100.00	0.00		5.00		5.00
44	740-05	Construction Signs (6.25-15.99SF)	SD	0.00	5.00	0.00		697.00	-301.00	396.00
45	828-15	Remove & Replace Fence (6' Wood Panel)	LF	0.00	35.00	0.00		224.00		224.00
46	1000-22	Front End Loader w/operator	HR	0.00	200.00	0.00		50.00	-3.00	47.00
47		Irrigation Repair at 850 Cardan Pl	LS	0.00	720.00	0.00		1.00		1.00
48		<b>Little River Park Road</b>								
49		Street Parking Lot Lighting/Infrastructure	LS	0.00	50,000.00	0.00	1.00	-1.00		0.00
50	212-01	Trench Excavation & Backfill, 0-10'	CY	0.00	30.00	0.00	2,158.00			2,158.00
51	212-07	Structural Excavation	CY	0.00	30.00	0.00	714.00			714.00
52	215-08	Rock Backfill	Ton	0.00	40.00	0.00	612.00	100.00		712.00
53	222-01	Fly Ash	Ton	0.00	100.00	0.00	290.00	-290.00		0.00
54	222-05	Cementitious Stabilized Subgrade	SY	0.00	5.00	0.00	5,379.00			5,379.00
55	305-02	Integral Curb (6") >500'	LF	0.00	10.00	0.00	3,283.00		-3,283.00	0.00
56	453-02	Reinforced Concrete Pipe (36")	LF	0.00	150.00	0.00	777.00		-15.00	762.00
57	453-12	Reinforced Concrete Pipe 18" O-Ring	LF	0.00	85.00	0.00	31.00	1,652.00	-1,662.00	21.00
58	453-14	Reinforced Concrete Pipe 36" O-Ring	LF	0.00	160.00	0.00	75.00		-1.00	74.00
59	453-33	Reinforced Concrete Pipe End Section (36")	EA	0.00	2,100.00	0.00	1.00			1.00
60	454-01	Manhole 4' Dia	EA	0.00	3,500.00	0.00	1.00			1.00
61	454-03	Manhole 6' Dia	EA	0.00	4,500.00	0.00	2.00			2.00
62	454-37	Design 2-1 inlet Complete in Place	EA	0.00	4,500.00	0.00	1.00			1.00
63	454-66	Box Type Inlet (4' X 4')	EA	0.00	2,500.00	0.00	1.00			1.00
64	460-00	Setting New Manhole Ring & Cover	EA	0.00	750.00	0.00	3.00			3.00
65	729-00	Sheet Aluminum Sign Panels	SF	0.00	30.00	0.00	57.00		-12.00	45.00
66	733-00	Square Steel Sign Post	EA	0.00	115.00	0.00	9.00	5.00	-6.00	8.00
67	735-00	Traffic Stripe (Plastic)(4"wide)	LF	0.00	1.20	0.00	3,603.00		447.00	4,050.00
68	736-04	Traffic Stripe (Plastic Tape) Symbol	EA	0.00	350.00	0.00	3.00			3.00
69	737-00	12" Wide Crosswalk Striping	LF	0.00	7.50	0.00	208.00		-102.00	106.00
70	740-06	Construction Signs (33.0 SF and Over)	SD	0.00	2.25	0.00	400.00		-400.00	0.00
71	830-00	Wheelchair Ramp	SY	0.00	100.00	0.00	11.00	42.34		53.34
72	830-01	Tactile Markers/Truncated Domes	SF	0.00	25.00	0.00	60.00		-40.00	20.00
73	900-03	Filter Fabric Silt Fence	LF	0.00	2.00	0.00	525.00		-525.00	0.00
74	900-10	Construction Entrance	EA	0.00	250.00	0.00	2.00			2.00
75		Seeding in lieu of sodding	EA	0.00	1.35	0.00	23,963.00		-23,963.00	0.00
76	213-01	Crushed Rock Foundation	CY	0.00	70.00	0.00		70.00	-44.32	25.68

	A	B	C	D	E	F	G	H	I	J
77	404-01	Concrete Class A	CY	0.00	850.00	0.00		3.00		3.00
78	453-00	Reinforced Concrete Pipe (18")	LF	0.00	70.00	0.00		100.00	-2.00	98.00
79	454-05	Manhole Added Depth (4' Dia)	VF	0.00	300.00	0.00		4.60		4.60
80	454-06	Manhole Added Depth (6' Dia)	VF	0.00	500.00	0.00		8.60		8.60
81	454-34	Design 2-0 Inlet	Each	0.00	4,000.00	0.00		1.00		1.00
82	825-00	12" (Type 1) Plain Riprap	ton	0.00	65.00	0.00		25.00	-3.57	21.43
83	454-63	Grated Street Inlet (26' Wide)	each	0.00	17,500.00	0.00		1.00		1.00
84	713-08	2" Traffic Signal Conduit Trenched	LF	0.00	12.00	0.00		1,800.00		1,800.00
85	713-09	2" Traffic Signal Conduit Bored	LF	0.00	26.00	0.00		200.00		200.00
86	725-00	Structural Concrete	CY	0.00	1,080.00	0.00		8.12		8.12
87	725-01	Reinforcing Steel	LBS	0.00	2.50	0.00		467.60		467.60
88	726-00	Pull Box Type (9)	Each	0.00	780.00	0.00		15.00		15.00
89	222-03	Cement Kiln Dust	Ton	0.00	90.00	0.00		196.53		196.53
90	812-01	Sidewalk Removal	SF	0.00	10.00	0.00		46.67		46.67
91		Total Line Item Budget				2,580,443.00				
92		Mobilization				180,631.01				
93		<b>Total Budget</b>				<b>2,761,074.01</b>				
94										
95		<b>Change Order 3-28-2016</b>								
96	200-00	Unclassified Excavation (>500 CY)	CY	4,987.00	15.00	74,805.00				
97	213-03	Crushed Rock Foundation (Crusher Run)(1.5")	CY	175.00	70.00	12,250.00				
98	304-04	Portland Cement Conc. Pavement (6")(>500)	SY	5,121.00	55.00	281,655.00				
99	823-00	Sidewalk (5')	SY	482.00	55.00	26,510.00				
100	840-04	Solid Slab Sodding (U-3 Bermuda)	SY	-1,629.00	3.00	-4,887.00				
101	453-00	Reinforced Concrete Pipe (18")	LF	100.00	70.00	7,000.00				
102	454-34	Design 2-0 Inlet Complete in Place	EA	1.00	4,000.00	4,000.00				
103	454-63	Grated Street Inlet (26' Wide)	EA	1.00	17,500.00	17,500.00				
104	740-09	Construction Barricades (Type III)	SD	400.00	10.00	4,000.00				
105	740-10	Warning Lights (Type A)	SD	800.00	1.00	800.00				
106		Survey & Staking as needed	EA	1.00	1,250.00	1,250.00				
107		Street Parking Lot Lighting/Infrastructure	LS	1.00	50,000.00	50,000.00				
108	212-01	Trench Excavation & Backfill, 0-10'	CY	2,158.00	30.00	64,740.00				
109	212-07	Structural Excavation	CY	714.00	30.00	21,420.00				
110	215-08	Rock Backfill	Ton	612.00	40.00	24,480.00				
111	222-01	Fly Ash	Ton	290.00	100.00	29,000.00				
112	222-05	Cementitious Stabilized Subgrade	SY	5,379.00	5.00	26,895.00				
113	305-02	Integral Curb (6") >500'	LF	3,283.00	10.00	32,830.00				
114	453-02	Reinforced Concrete Pipe (36")	LF	777.00	150.00	116,550.00				
115	453-12	Reinforced Concrete Pipe 18" O-Ring	LF	31.00	85.00	2,635.00				

	A	B	C	D	E	F	G	H	I	J
116	453-14	Reinforced Concrete Pipe 36" O-Ring	LF	75.00	160.00	12,000.00				
117	453-33	Reinforced Concrete Pipe End Section (36")	EA	1.00	2,100.00	2,100.00				
118	454-01	Manhole 4' Dia	EA	1.00	3,500.00	3,500.00				
119	454-03	Manhole 6' Dia	EA	2.00	4,500.00	9,000.00				
120	454-37	Design 2-1 inlet Complete in Place	EA	1.00	4,500.00	4,500.00				
121	454-66	Box Type Inlet (4' X 4')	EA	1.00	2,500.00	2,500.00				
122	460-00	Setting New Manhole Ring & Cover	EA	3.00	750.00	2,250.00				
123	729-00	Sheet Aluminum Sign Panels	SF	57.00	30.00	1,710.00				
124	733-00	Square Steel Sign Post	EA	9.00	115.00	1,035.00				
125	735-00	Traffic Stripe (Plastic)(4"wide)	LF	3,603.00	1.20	4,323.60				
126	736-04	Traffic Stripe (Plastic Tape) Symbol	EA	3.00	350.00	1,050.00				
127	737-00	12" Wide Crosswalk Striping	LF	208.00	7.50	1,560.00				
128	740-06	Construction Signs (33.0 SF and Over)	SD	400.00	2.25	900.00				
129	830-00	Wheelchair Ramp	SY	11.00	100.00	1,100.00				
130	830-01	Tactile Markers/Truncated Domes	SF	60.00	25.00	1,500.00				
131	900-03	Filter Fabric Silt Fence	LF	525.00	2.00	1,050.00				
132	900-10	Construction Entrance	EA	2.00	250.00	500.00				
133		Seeding in lieu of sodding	EA	23,963.00	1.35	32,350.05				
134						<b>876,361.65</b>	<b>Total Line Item Change</b>			
135										
136						<b>3,456,804.65</b>	<b>New Total Line Item Budget</b>			
137						<b>241,976.33</b>	<b>Mobilization</b>			
138						<b>3,698,780.98</b>	<b>Total CO #1 Budget</b>			
139										
140						<b>937,706.97</b>	<b>Total in Change of Budget</b>			
141										
142	<b>Change Order 4-24-17</b>									
143	200-00	Unclassified Excavation (>500 CY)	CY	7,530.08	15.00	112,951.20				
144	812-02	Remove Curb & Gutter	LF	166.08	7.00	1,162.56				
145	812-03	Concrete Pavement Removal	SY	665.68	10.00	6,656.80				
146	813-00	Remove Driveway	SY	265.73	10.00	2,657.30				
147	820-01	Sawcut Pavement	LF	5,135.99	4.00	20,543.96				
148	823-03	6" PC Conc. Driveway (HES)	SY	461.42	65.00	29,992.30				
149	824-01	Temporary Surface Course (TBSC)	Ton	447.43	40.00	17,897.20				
150	840-04	Solid Slab Sodding (U-3 Bermuda)	SY	4,998.34	3.00	14,995.02				
151	453-04	Reinforced Concrete Pipe (48")	LF	-332.30	240.00	-79,752.00				
152	454-30	Junction Box (6' x 6')	CY	7.54	850.00	6,409.00				
153		Survey & Staking as needed	EA	13.00	1,250.00	16,250.00				
154		Street Parking Lot Lighting/Infrastructure	LS	-1.00	50,000.00	-50,000.00				

	A	B	C	D	E	F	G	H	I	J
155	215-08	Rock Backfill	Ton	100.00	40.00	4,000.00				
156	222-01	Fly Ash	Ton	-290.00	100.00	-29,000.00				
157	453-12	Reinforced Concrete Pipe 18" O-Ring	LF	1,652.00	85.00	140,420.00				
158	733-00	Square Steel Sign Post	EA	5.00	115.00	575.00				
159	830-00	Wheelchair Ramp	SY	42.34	100.00	4,234.00				
160	740-03	Construction Sign (0-6.25SF)	SD	1,131.00	1.00	1,131.00				
161	740-05	Construction Sign (16-32.99SF)	SD	1,453.00	5.00	7,265.00				
162	453-12	Reinforced Concrete 18" O-Ring	LF	175.00	85.00	14,875.00				
163	453-13.5	Reinforced Concrete Pipe 30" O-Ring	LF	56.00	132.50	7,420.00				
164	460-00	Setting New Manhole Ring & Cover	Each	4.00	750.00	3,000.00				
165	464-03	HDPE Pipe (30")(SP)	LF	279.00	110.00	30,690.00				
166	212-01	Trench Excavation & Backfill (0'-10')	CY	905.00	30.00	27,150.00				
167	213-01	Crushed Rock Foundation	CY	110.00	70.00	7,700.00				
168	215-08	Rock Backfill	Ton	450.00	40.00	18,000.00				
169		Field Design Sewer/Junction Box	LS	1.00	8,350.00	8,350.00				
170	826-08	Perforated Underdrain Pipe (6")	LF	97.00	20.00	1,940.00				
171	202-00	Borrow	CY	336.53	35.00	11,778.55				
172	825-02	3" Surge (Type) Filter Blanket	Ton	7.08	60.00	424.80				
173	900-03	Filter Fabric Silt Fence	LF	32.00	2.00	64.00				
174	729-10	Remove & Relocate Sign	Each	5.00	100.00	500.00				
175	740-05	Construction Signs (6.25-15.99SF)	SD	697.00	5.00	3,485.00				
176	828-15	Remove & Replace Fence (6' Wood Panel)	LF	224.00	35.00	7,840.00				
177	1000-22	Front End Loader w/operator	HR	50.00	200.00	10,000.00				
178		Irrigation Repair at 850 Cardan Pl	LS	1.00	720.00	720.00				
179	213-01	Crushed Rock Foundation	CY	70.00	70.00	4,900.00				
180	404-01	Concrete Class A	CY	3.00	850.00	2,550.00				
181	453-00	Reinforced Concrete Pipe (18")	LF	100.00	70.00	7,000.00				
182	454-05	Manhole Added Depth (4' Dia)	VF	4.60	300.00	1,380.00				
183	454-06	Manhole Added Depth (6' Dia)	VF	8.60	500.00	4,300.00				
184	454-34	Design 2-0 Inlet	Each	1.00	4,000.00	4,000.00				
185	825-00	12" (Type 1) Plain Riprap	ton	25.00	65.00	1,625.00				
186	454-63	Grated Street Inlet (26' Wide)	each	1.00	17,500.00	17,500.00				
187	713-08	2" Traffic Signal Conduit Trenched	LF	1,800.00	12.00	21,600.00				
188	713-09	2" Traffic Signal Conduit Bored	LF	200.00	26.00	5,200.00				
189	725-00	Structural Concrete	CY	8.12	1,080.00	8,769.60				
190	725-01	Reinforcing Steel	LBS	467.60	2.50	1,169.00				
191	726-00	Pull Box Type (9)	Each	15.00	780.00	11,700.00				
192	222-03	Cement Kiln Dust	Ton	196.53	90.00	17,687.70				
193	812-01	Sidewalk Removal	SF	46.67	10.00	466.70				
194						492,173.69	<b>Total Line Item Change</b>			



	A	B	C	D	E	F	G	H	I	J
195										
196						<b>3,948,978.34</b>	New Total Line Item Budget			
197						276,428.48	Mobilization			
198						<b>4,225,406.82</b>	<b>Total CO #2 Budget</b>			
199										
200						<b>526,625.85</b>	<b>Total in Change of Budget</b>			
201										
202		<b>Change Order 8-29-17</b>								
203	213-03	Crushed Rock Foundation (Crusher Run)(1.5")	CY	-1,787.75	70.00	-125,142.50				
204	304-04	Portland Cement Conc. Pavement (6")(>500)	SY	-2,922.81	55.00	-160,754.55				
205	305-00	Curb & Gutter (2'-8")(6" Barrier)(>500')	LF	-363.00	20.00	-7,260.00				
206	812-02	Remove Curb & Gutter	LF	10.00	7.00	70.00				
207	823-00	Sidewalk (5')	SY	-32.78	55.00	-1,802.90				
208	453-00	Reinforced Concrete Pipe (18")	LF	-275.00	70.00	-19,250.00				
209	454-34	Design 2-0 Inlet Complete in Place	EA	-2.00	4,000.00	-8,000.00				
210	454-63	Grated Street Inlet (26' Wide)	EA	-1.00	17,500.00	-17,500.00				
211	811-16	Structure Removal (RCP)	LF	-123.00	15.00	-1,845.00				
212	740-09	Construction Barricades (Type III)	SD	-367.00	10.00	-3,670.00				
213	740-10	Warning Lights (Type A)	SD	-1,728.00	1.00	-1,728.00				
214	740-14	Channelizer Cones	SD	-2,804.00	1.50	-4,206.00				
215	453-04	Reinforced Concrete Pipe (48")	LF	5.30	240.00	1,272.00				
216		Mailbox Remove & Replace	EA	-51.00	500.00	-25,500.00				
217		CCTV Inspection	LF	-53.00	2.00	-106.00				
218	453-12	Reinforced Concrete 18" O-Ring	LF	-175.00	85.00	-14,875.00				
219	464-03	HDPE Pipe (30")(SP)	LF	-8.00	110.00	-880.00				
220	212-01	Trench Excavation & Backfill (0'-10')	CY	-2.40	30.00	-72.00				
221	213-01	Crushed Rock Foundation	CY	-0.99	70.00	-69.30				
222	215-08	Rock Backfill	Ton	-158.65	40.00	-6,346.00				
223	740-05	Construction Signs (6.25-15.99SF)	SD	-301.00	5.00	-1,505.00				
224	1000-22	Front End Loader w/operator	HR	-3.00	200.00	-600.00				
225	305-02	Integral Curb (6") >500'	LF	-3,283.00	10.00	-32,830.00				
226	453-02	Reinforced Concrete Pipe (36")	LF	-15.00	150.00	-2,250.00				
227	453-12	Reinforced Concrete Pipe 18" O-Ring	LF	-1,662.00	85.00	-141,270.00				
228	453-14	Reinforced Concrete Pipe 36" O-Ring	LF	-1.00	160.00	-160.00				
229	729-00	Sheet Aluminum Sign Panels	SF	-12.00	30.00	-360.00				
230	733-00	Square Steel Sign Post	EA	-6.00	115.00	-690.00				
231	735-00	Traffic Stripe (Plastic)(4"wide)	LF	447.00	1.20	536.40				
232	737-00	12" Wide Crosswalk Striping	LF	-102.00	7.50	-765.00				
233	740-06	Construction Signs (33.0 SF and Over)	SD	-400.00	2.25	-900.00				



	A	B	C	D	E	F	G	H	I	J
1	PAGE TWO: Sum of Changes as of 30 August 2017		Original Contract				As of 8-30-17			
2						(D*E)		(G-D)	(G*E)	(I-F)
3	Pay Item # (Column A)	Item Description (Column B)	Unit (C)	Estimated Quantity (D)	Unit Price (E)	Estimated Cost (F)	Quantity Used (G)	Difference in Quantity (H)	Cost for Project (I)	Difference in Cost (J)
4	200-00	Unclassified Excavation (>500 CY)	CY	11,335.00	15.00	170,025.00	23,852.08	12,517.08	357,781.20	187,756.20
5	213-03	Crushed Rock Foundation (Crusher Run)(1.5")	CY	5,135.00	70.00	359,450.00	3,522.25	-1,612.75	246,557.50	-112,892.50
6	304-04	Portland Cement Conc. Pavement (6")(>500)	SY	18,015.00	55.00	990,825.00	20,213.19	2,198.19	1,111,725.45	120,900.45
7	305-00	Curb & Gutter (2'-8")(6" Barrier)(>500')	LF	14,198.00	20.00	283,960.00	13,835.00	-363.00	276,700.00	-7,260.00
8	812-02	Remove Curb & Gutter	LF	10,748.00	7.00	75,236.00	10,924.08	176.08	76,468.56	1,232.56
9	812-03	Concrete Pavement Removal	SY	12,850.00	10.00	128,500.00	13,515.68	665.68	135,156.80	6,656.80
10	813-00	Remove Driveway	SY	2,973.00	10.00	29,730.00	3,238.73	265.73	32,387.30	2,657.30
11	820-01	Sawcut Pavement	LF	650.00	4.00	2,600.00	5,785.99	5,135.99	23,143.96	20,543.96
12	823-00	Sidewalk (5')	SY	667.00	55.00	36,685.00	1,116.22	449.22	61,392.10	24,707.10
13	823-03	6" PC Conc. Driveway (HES)	SY	2,973.00	65.00	193,245.00	3,434.42	461.42	223,237.30	29,992.30
14	824-01	Temporary Surface Course (TBSC)	Ton	364.00	40.00	14,560.00	811.43	447.43	32,457.20	17,897.20
15	840-04	Solid Slab Sodding (U-3 Bermuda)	SY	6,420.00	3.00	19,260.00	9,789.34	3,369.34	29,368.02	10,108.02
16	453-00	Reinforced Concrete Pipe (18")	LF	175.00	70.00	12,250.00	0.00	-175.00	0.00	-12,250.00
17	454-34	Design 2-0 Inlet Complete in Place	EA	1.00	4,000.00	4,000.00	0.00	-1.00	0.00	-4,000.00
18	454-63	Grated Street Inlet (26' Wide)	EA	2.00	17,500.00	35,000.00	2.00	0.00	35,000.00	0.00
19	811-16	Structure Removal (RCP)	LF	745.00	15.00	11,175.00	622.00	-123.00	9,330.00	-1,845.00
20	740-09	Construction Barricades (Type III)	SD	1,800.00	10.00	18,000.00	1,833.00	33.00	18,330.00	330.00
21	740-10	Warning Lights (Type A)	SD	3,600.00	1.00	3,600.00	2,672.00	-928.00	2,672.00	-928.00
22	740-14	Channelizer Cones	SD	9,000.00	1.50	13,500.00	6,196.00	-2,804.00	9,294.00	-4,206.00
23	453-04	Reinforced Concrete Pipe (48")	LF	570.00	240.00	136,800.00	243.00	-327.00	58,320.00	-78,480.00
24	454-30	Junction Box (6' x 6')	CY	9.00	850.00	7,650.00	16.54	7.54	14,059.00	6,409.00
25		Mailbox Remove & Replace	EA	54.00	500.00	27,000.00	3.00	-51.00	1,500.00	-25,500.00
26		Survey & Staking as needed	EA	5.00	1,250.00	6,250.00	19.00	14.00	23,750.00	17,500.00
27		CCTV Inspection	LF	571.00	2.00	1,142.00	518.00	-53.00	1,036.00	-106.00
28	740-03	Construction Sign (0-6.25SF)	SD	0.00	1.00	0.00	1,131.00	1,131.00	1,131.00	1,131.00
29	740-05	Construction Sign (16-32.99SF)	SD	0.00	5.00	0.00	1,453.00	1,453.00	7,265.00	7,265.00
30	453-12	Reinforced Concrete 18" O-Ring	LF	0.00	85.00	0.00	0.00	0.00	0.00	0.00
31	453-13.5	Reinforced Concrete Pipe 30" O-Ring	LF	0.00	132.50	0.00	56.00	56.00	7,420.00	7,420.00
32	460-00	Setting New Manhole Ring & Cover	Each	0.00	750.00	0.00	4.00	4.00	3,000.00	3,000.00
33	464-03	HDPE Pipe (30")(SP)	LF	0.00	110.00	0.00	271.00	271.00	29,810.00	29,810.00
34	212-01	Trench Excavation & Backfill (0'-10')	CY	0.00	30.00	0.00	902.60	902.60	27,078.00	27,078.00
35	213-01	Crushed Rock Foundation	CY	0.00	70.00	0.00	109.01	109.01	7,630.70	7,630.70
36	215-08	Rock Backfill	Ton	0.00	40.00	0.00	291.35	291.35	11,654.00	11,654.00
37		Field Design Sewer/Junction Box	LS	0.00	8,350.00	0.00	1.00	1.00	8,350.00	8,350.00
38	826-08	Perforated Underdrain Pipe (6")	LF	0.00	20.00	0.00	97.00	97.00	1,940.00	1,940.00
39	202-00	Borrow	CY	0.00	35.00	0.00	336.53	336.53	11,778.55	11,778.55
40	825-02	3" Surge (Type) Filter Blanket	Ton	0.00	60.00	0.00	7.08	7.08	424.80	424.80
41	900-03	Filter Fabric Silt Fence	LF	0.00	2.00	0.00	32.00	32.00	64.00	64.00

	A	B	C	D	E	F	G	H	I	J
42	729-10	Remove & Relocate Sign	Each	0.00	100.00	0.00	5.00	5.00	500.00	500.00
43	740-05	Construction Signs (6.25-15.99SF)	SD	0.00	5.00	0.00	396.00	396.00	1,980.00	1,980.00
44	828-15	Remove & Replace Fence (6' Wood Panel)	LF	0.00	35.00	0.00	224.00	224.00	7,840.00	7,840.00
45	1000-22	Front End Loader w/operator	HR	0.00	200.00	0.00	47.00	47.00	9,400.00	9,400.00
46		Irrigation Repair at 850 Cardan Pl	LS	0.00	720.00	0.00	1.00	1.00	720.00	720.00
47		<b>Little River Park Road</b>								
48		Street Parking Lot Lighting/Infrastructure	LS	0.00	50,000.00	0.00	0.00	0.00	0.00	0.00
49	212-01	Trench Excavation & Backfill, 0-10'	CY	0.00	30.00	0.00	2,158.00	2,158.00	64,740.00	64,740.00
50	212-07	Structural Excavation	CY	0.00	30.00	0.00	714.00	714.00	21,420.00	21,420.00
51	215-08	Rock Backfill	Ton	0.00	40.00	0.00	712.00	712.00	28,480.00	28,480.00
52	222-01	Fly Ash	Ton	0.00	100.00	0.00	0.00	0.00	0.00	0.00
53	222-05	Cementitious Stabilized Subgrade	SY	0.00	5.00	0.00	5,379.00	5,379.00	26,895.00	26,895.00
54	305-02	Integral Curb (6") >500'	LF	0.00	10.00	0.00	0.00	0.00	0.00	0.00
55	453-02	Reinforced Concrete Pipe (36")	LF	0.00	150.00	0.00	762.00	762.00	114,300.00	114,300.00
56	453-12	Reinforced Concrete Pipe 18" O-Ring	LF	0.00	85.00	0.00	21.00	21.00	1,785.00	1,785.00
57	453-14	Reinforced Concrete Pipe 36" O-Ring	LF	0.00	160.00	0.00	74.00	74.00	11,840.00	11,840.00
58	453-33	Reinforced Concrete Pipe End Section (36")	EA	0.00	2,100.00	0.00	1.00	1.00	2,100.00	2,100.00
59	454-01	Manhole 4' Dia	EA	0.00	3,500.00	0.00	1.00	1.00	3,500.00	3,500.00
60	454-03	Manhole 6' Dia	EA	0.00	4,500.00	0.00	2.00	2.00	9,000.00	9,000.00
61	454-37	Design 2-1 inlet Complete in Place	EA	0.00	4,500.00	0.00	1.00	1.00	4,500.00	4,500.00
62	454-66	Box Type Inlet (4' X 4')	EA	0.00	2,500.00	0.00	1.00	1.00	2,500.00	2,500.00
63	460-00	Setting New Manhole Ring & Cover	EA	0.00	750.00	0.00	3.00	3.00	2,250.00	2,250.00
64	729-00	Sheet Aluminum Sign Panels	SF	0.00	30.00	0.00	45.00	45.00	1,350.00	1,350.00
65	733-00	Square Steel Sign Post	EA	0.00	115.00	0.00	8.00	8.00	920.00	920.00
66	735-00	Traffic Stripe (Plastic)(4"wide)	LF	0.00	1.20	0.00	4,050.00	4,050.00	4,860.00	4,860.00
67	736-04	Traffic Stripe (Plastic Tape) Symbol	EA	0.00	350.00	0.00	3.00	3.00	1,050.00	1,050.00
68	737-00	12" Wide Crosswalk Striping	LF	0.00	7.50	0.00	106.00	106.00	795.00	795.00
69	740-06	Construction Signs (33.0 SF and Over)	SD	0.00	2.25	0.00	0.00	0.00	0.00	0.00
70	830-00	Wheelchair Ramp	SY	0.00	100.00	0.00	53.34	53.34	5,334.00	5,334.00
71	830-01	Tactile Markers/Truncated Domes	SF	0.00	25.00	0.00	20.00	20.00	500.00	500.00
72	900-03	Filter Fabric Silt Fence	LF	0.00	2.00	0.00	0.00	0.00	0.00	0.00
73	900-10	Construction Entrance	EA	0.00	250.00	0.00	2.00	2.00	500.00	500.00
74		Seeding in lieu of sodding	EA	0.00	1.35	0.00	0.00	0.00	0.00	0.00
75	213-01	Crushed Rock Foundation	CY	0.00	70.00	0.00	25.68	25.68	1,797.60	1,797.60
76	404-01	Concrete Class A	CY	0.00	850.00	0.00	3.00	3.00	2,550.00	2,550.00
77	453-00	Reinforced Concrete Pipe (18")	LF	0.00	70.00	0.00	98.00	98.00	6,860.00	6,860.00
78	454-05	Manhole Added Depth (4' Dia)	VF	0.00	300.00	0.00	4.60	4.60	1,380.00	1,380.00
79	454-06	Manhole Added Depth (6' Dia)	VF	0.00	500.00	0.00	8.60	8.60	4,300.00	4,300.00
80	454-34	Design 2-0 Inlet	Each	0.00	4,000.00	0.00	1.00	1.00	4,000.00	4,000.00
81	825-00	12" (Type 1) Plain Riprap	ton	0.00	65.00	0.00	21.43	21.43	1,392.95	1,392.95
82	454-63	Grated Street Inlet (26' Wide)	each	0.00	17,500.00	0.00	1.00	1.00	17,500.00	17,500.00
83	713-08	2" Traffic Signal Conduit Trenched	LF	0.00	12.00	0.00	1,800.00	1,800.00	21,600.00	21,600.00



## Cost Reasonableness Certification

Project Name	Plaza Towers Street Repair	
Work Order Number	I-02-W-URG	Date 8/30/2017

Line Item	Contract Amount	Industry Standard	Vendor
Drainage	\$ 346,511.75	Infrastructure Recovery and Implementation Plan Appendix B1 Table B1.8-SubArea PT5	Cardinal Engineering
Paving	\$ 2,842,791.64	Infrastructure Recovery and Implementation Plan Appendix B1 Table B1.8-SubArea PT5	Cardinal Engineering
Traffic	\$ 98,585.60	Infrastructure Recovery and Implementation Plan Appendix B1 Table B1.8-SubArea PT5	Cardinal Engineering
Mailbox Remove and Replace	\$ 1,500.00	Infrastructure Recovery and Implementation Plan Appendix B1 Table B1.8-SubArea PT5	Cardinal Engineering
Survey & Staking	\$ 23,750.00	Infrastructure Recovery and Implementation Plan Appendix B1 Table B1.8-SubArea PT5	Cardinal Engineering
CCTV Inspection	\$ 1,036.00	Infrastructure Recovery and Implementation Plan Appendix B1 Table B1.8-SubArea PT5	Cardinal Engineering
Mobilization	\$ 233,285.15	Infrastructure Recovery and Implementation Plan Appendix B1 Table B1.8-SubArea PT5	Cardinal Engineering
Field Design Sewer/Junction Box	\$ 8,350.00	Engineer Concurrence	Cardinal Engineering
Front End Loader w/ operator	\$ 9,400.00	Engineer Concurrence	Cardinal Engineering
Irrigation Repair	\$ 720.00	Engineer Concurrence	Cardinal Engineering
<b>Total</b>	<b>\$ 3,565,930.14</b>		

**Certification:** The Project Supervisor (PS) of the City of Moore, Oklahoma certifies that the Cost Reasonableness summary provided above for the stated project is accurate, complete, and in conformance with Office of Management and Budget requirements on the date certified.

Stan Drake

Stan Drake, Project Supervisor Signature

8/30/2017

Date





August 10, 2017

City of Moore  
Attention Mr. Jared Jakubowski  
Capital Planning & Resiliency  
301 North Broadway  
Moore, Oklahoma 73160

Subject: Reasonable Cost Analysis for Project I-02-W-URG, Plaza Towers Street Repair

Mr. Jakubowski;

Pursuant to a request from the City of Moore, Cabbiness Engineering has investigated the cost of various pay items for the subject project due to revisions in the scope of work for the construction phase and has found those costs to be reasonable. The pay items and unit prices were compared to the City of Moore's 2015-2016 On-Demand Construction Services Bid tabulations list, the June 2017 ODOT Price History List and the 2017 Davis-Bacon wage rates for cost "reasonableness". This review is only for general conformance with the design concept of the project and with the information given in the owner provided documents. Additionally, this review determined neither accuracy of quantities nor substantiates the proper installation of those pay items.

If you have any questions, please feel free to contact us.

Sincerely,  
Cabbiness Engineering, LLC

A handwritten signature in black ink that reads 'J. Bret Cabbiness'.

J. Bret Cabbiness, PE  
President

JBC/gks  
cc: File 261