NORMAN UTILITIES AUTHORITY
CITY OF NORMAN
CLEVELAND COUNTY, OKLAHOMA

DATE:	May 27, 2020
CHANGE ORDER NO.:	Three (3) FINAL
CONTRACT NO.:	Contract K-1819-125
PROJECT:	Robinson Street Waterline Replacement, Phase II
CONTRACTOR:	Central Contracting Services, Inc. 17301 S. Sunnylane Ave Norman, OK 73071

	Contract Time		Contract Amount
ORIGINAL:	240	calendar days	$2,845,591.00
PREVIOUS CHANGE ORDERS:	120	calendar days	$213,700.00
THIS CHANGE ORDER:	48	calendar days	$60,354.77
REVISED AMOUNT:	408	calendar days	$3,119,645.77
ORIGINAL START DATE:	April 15, 2019		
ORIGINAL COMPLETION DATE:	December 11, 2019		
PREVIOUS COMPLETION DATE:	April 9, 2020		
NEW COMPLETION DATE:	May 27, 2020		

DESCRIPTION:	$ Increase	$ Decrease
Item 1: Reconcile As-Bid to As-Built Quantities for Robinson Waterline, Phase II as detailed on Attachment 1. Increase contract time by thirty (30) calendar days due to cold or wet	15,483.77	0.00
Item 2: Compensate Contractor for delay due to changed working conditions as detailed on Attachment 1; increase contract time by time by eighteen (18) calendar days.	60,700.00	0.00
Item 3: Reconcile As-Bid to As-Built Quantities for On-Cue Waterline as detailed on Attachment 1.	0.00	-15,829.00
The NUA and Central Contracting Services, Inc. agree that this project, as amended by approved Change Orders 1, 2 and 3, is considered complete as of May 27, 2020. The two-year Maintenance Bond will begin upon NUA acceptance of the project. No other claims modifying the contract price or contract time will be considered.		

SUBMITTED BY
CONTRACTOR: ______________________ Central Contracting Services, Inc. Date: ______

RECOMMENDED BY
ENGINEER: ______________________ Mark Daniels, P.E., Utilities Engineer Date: ______

REGISTERED PROFESSIONAL ENGINEER
J. MARK
DANIELS
18833
05-27-2020
OKLAHOMA

ACCEPTED BY
NORMAN UTILITIES AUTHORITY: ______________________ City Attorney Date: ______

ACCEPTED BY
NORMAN UTILITIES AUTHORITY: ______________________ Breaa Clark, Chairman Date: ______

Attachment 1

Item 1: Reconcile As-Bid to As-Built Quantities for Robinson Waterline Replacement, Phase II; increase contract amount by $15,483.77 and contract time by by thirty (30) calendar days.

Item 2: Compensate Contractor for delay due to changed working conditions after Bid Opening. City mandated revisions to Traffic Control Plan between Brookhaven Creek and 36th Avenue NW (between Stations 37+00 and 42+40) reduced working area on Robinson Street from two lanes to one lane slowing pipe installation to approximately 20 feet per day as compared to between 70 and 100 feet per day installed where both lanes of Robinson were available for material/rock storage and equipment movement. Increase contract amount by $60,700 ($26,500 for additional manpower and $34,200 for additional equipment) and increase contract time by time by eighteen (18) calendar days.

Item 3: Reconcile As-Bid to As-Built Quantities for On-Cue Waterline Replacement; decrease contract amount by $15,829.00.

				As-Bid		As-Built		
Bid Item	Description	Unit	Unit Price	Quantity	Price	Quantity	Price	Change
	Robinson Waterline Phase II							
1	6-inch C900 PVC DR18 Water Pipe by Open Cut	LF	$26.00	180	$4,680.00	290	$7,527.00	$2,847.00
2	8-inch C900 PVC DR18 Water Pipe by Open Cut in Roadway	LF	$29.00	290	$8,410.00	345	$10,005.00	$1,595.00
3	12-inch C900 PVC DR18 Water Pipe by Open Cut	LF	$41.00	120	$4,920.00	91	$3,731.00	-$1,189.00
4	16-inch C900 PVC DR18 Water Pipe by Open Cut	LF	$53.00	120	$6,360.00	95	$5,035.00	-$1,325.00
5	24-inch C900 PVC DR18 Water Pipe by Open Cut	LF	$111.00	130	$14,430.00	112	$12,432.00	-$1,998.00
6	30-inch C900 PVC DR21 Water Pipe by Open Cut	LF	$250.00	3,850	$962,500.00	3,638	$909,500.00	-$53,000.00
7	30-Inch C900 PVC DR21 Water Pipe by Open Cut with 48-Inch Steel Casing	LF	$2,000.00	80	$160,000.00	80	$160,000.00	$0.00
8	Standard Backfill Material (ODOT Type A Aggregate Base)	Tons	$35.00	7,500	$262,500.00	10,543	$369,005.00	$106,505.00
9	6-inch MJ Gate Valve with Valve Box	EA	$825.00	5	$4,125.00	7	$5,775.00	$1,650.00
10	8-inch MJ Gate Valve with Valve Box	EA	$1,085.00	9	$9,765.00	9	$9,765.00	$0.00
11	12-inch MJ Gate Valve with Valve Box	EA	$2,695.00	2	$5,390.00	1	$2,695.00	-$2,695.00
12	16-inch Rubber Seated Butterfly Valve with Valve Box	EA	$3,625.00	4	$14,500.00	4	$14,500.00	$0.00
13	24-inch Rubber Seated Butterfly Valve with Valve Box	EA	$7,605.00	2	$15,210.00	3	$22,815.00	$7,605.00
14	30-inch Rubber Seated Butterfly Valve with Valve Box	EA	$13,865.00	10	$138,650.00	10	$138,650.00	$0.00
15	6-inch 45° MJ Bend	EA	$310.00	2	$620.00	5	$1,550.00	$930.00
16	6-inch 90° MJ Bend	EA	$354.00	2	$708.00	8	$2,832.00	$2,124.00
17	8-inch 45° MJ Bend	EA	$380.00	7	$2,660.00	13	$4,940.00	$2,280.00
18	12-inch 45 MJ Bend	EA	$470.00	4	$1,880.00	3	$1,410.00	-$470.00
19	16-inch 90° MJ Bend	EA	$1,755.00	2	$3,510.00	5	$8,775.00	$5,265.00
20	24-inch 45° MJ Bend	EA	$1,990.00	4	$7,960.00	6	$11,940.00	$3,980.00
21	24-inch 90° MJ Bend	EA	$2,475.00	2	$4,950.00	2	$4,950.00	$0.00
22	30-inch 11.25° MJ Bend	EA	$4,125.00	4	$16,500.00	4	$16,500.00	$0.00
23	30-inch 22.5° MJ Bend	EA	$4,125.00	4	$16,500.00	5	$20,625.00	$4,125.00
24	30-inch 45° MJ Bend	EA	$4,445.00	2	$8,890.00	2	$8,890.00	$0.00
25	16-inch x 16-Inch MJ Tee	EA	$1,505.00	2	$3,010.00	2	$3,010.00	$0.00
26	24-inch x 12-inch MJ Tee	EA	$2,900.00	1	$2,900.00	0	$0.00	-$2,900.00
27	30-inch x 6-inch MJ Tee	EA	$4,390.00	4	$17,560.00	6	$26,340.00	$8,780.00
28	30-inch x 8-inch MJ Tee	EA	$4,420.00	1	$4,420.00	5	$22,100.00	$17,680.00
29	30-inch x 12-inch MJ Tee	EA	$4,725.00	3	$14,175.00	3	$14,175.00	$0.00

30	30-inch x 16-inch MJ Tee	EA	$5,120.00	2	$10,240.00	2	$10,240.00	$0.00
31	30-inch x 24-inch MJ Tee	EA	$5,560.00	2	$11,120.00	2	$11,120.00	$0.00
32	30-inch x 30-inch MJ Tee	EA	$6,995.00	1	$6,995.00	1	$6,995.00	$0.00
33	30-inch x 8-inch MJ Cross	EA	$6,320.00	2	$12,640.00	0	$0.00	-$12,640.00
34	8-inch x 6-inch MJ Reducer	EA	$330.00	1	$330.00	2	$660.00	$330.00
35	16-inch x 6-inch MJ Reducer	EA	$780.00	1	$780.00	1	$780.00	$0.00
36	30-inch x 16-inch MJ Reducer	EA	$2,990.00	1	$2,990.00	1	$2,990.00	$0.00
37	30-inch x 24-inch MJ Reducer	EA	$3,160.00	1	$3,160.00	1	$3,160.00	$0.00
38	Fire Hydrant Assembly	EA	$3,865.00	12	$46,380.00	12	$46,380.00	$0.00
39	Fire Hydrant Removal	EA	$585.00	7	$4,095.00	8	$4,680.00	$585.00
40	Short Service Connection	EA	$1,405.00	6	$8,430.00	14	$19,670.00	$11,240.00
41	Long Service Connection	EA	$1,990.00	5	$9,950.00	4	$7,960.00	-$1,990.00
42	Permanent Blow-Off	EA	$2,925.00	1	$2,925.00	1	$2,925.00	$0.00
43	Temporary Blow-Off	EA	$2,925.00	1	$2,925.00	1	$2,925.00	$0.00
44	Connection to Existing 6-inch DIP Water Line	EA	$500.00	2	$1,000.00	3	$1,500.00	$500.00
45	Connection to Existing 8-inch DIP Water Line	EA	$500.00	4	$2,000.00	3	$1,500.00	-$500.00
46	Connection to Existing 12-inch DIP Water Line	EA	$1,000.00	1	$1,000.00	1	$1,000.00	$0.00
47	Connection to Existing 16-inch PVC Water Line	EA	$1,000.00	1	$1,000.00	3	$3,000.00	$2,000.00
48	Connection to Existing 16-inch DIP Water Line	EA	$1,000.00	3	$3,000.00	3	$3,000.00	$0.00
49	Connection to Existing 24-inch DIP Water Line	EA	$2,500.00	3	$7,500.00	3	$7,500.00	$0.00
50	Connection to Existing 30-inch PVC Water Line	EA	$3,500.00	1	$3,500.00	1	$3,500.00	$0.00
51	Plug and Abandon Existing 6-inch DIP Water Line	EA	$500.00	3	$1,500.00	5	$2,500.00	$1,000.00
52	Plug and Abandon Existing 8-inch DIP Water Line	EA	$500.00	6	$3,000.00	3	$1,500.00	-$1,500.00
53	Plug and Abandon Existing 12-inch DIP Water Line	EA	$500.00	4	$2,000.00	2	$1,000.00	-$1,000.00
54	Cap and Abandon Existing 16-inch PVC Water Line	EA	$1,000.00	1	$1,000.00	1	$1,000.00	$0.00
55	Cap and Abandon Existing 16-inch DIP Water Line	EA	$1,000.00	1	$1,000.00	1	$1,000.00	$0.00
56	Cap and Abandon Existing 24-inch DIP Water Line	EA	$1,000.00	8	$8,000.00	6	$6,000.00	-$2,000.00
57	Cap and Abandon Existing 30-inch DIP Water Line	EA	$2,225.00	3	$6,675.00	1	$2,225.00	-$4,450.00
58	Remove and Replace Concrete Sidewalk	SY	$63.00	200	$12,600.00	411	$25,891.74	$13,291.74
59	Remove and Replace Concrete Drive	SY	$72.00	230	$16,560.00	108	$7,776.00	-$8,784.00
60	Remove and Replace Concrete Pavement	SY	$100.00	1,350	$135,000.00	1,297	$129,710.00	-$5,290.00
61	Remove and Replace Asphalt Pavement	SY	$100.00	3,700	$370,000.00	3,044	$304,400.00	-$65,600.00
62	Concrete Curb and Gutter Repair	LF	$16.00	280	$4,480.00	469	$7,504.00	$3,024.00
63	Articulated Concrete Block	SF	$24.15	1,720	$41,538.00	0	$0.00	-$41,538.00
64	Slab Sodding	SY	$3.00	2,500	$7,500.00	4,312	$12,936.03	$5,436.03
65	High Early Strength Concrete	SY	$300.00	150	$45,000.00	249	$74,700.00	$29,700.00
66	Construction Staking	LS	$11,000.00	1	$11,000.00	1	$11,000.00	$0.00
67	Traffic Control	LS	$100,000.00	1	$100,000.00	1	$100,000.00	$0.00
68	Erosion Control	LS	$5,000.00	1	$5,000.00	1	$5,000.00	$0.00
69	Erosion Control for Brookhaven Creek	LS	$5,000.00	1	$5,000.00	1	$5,000.00	$0.00
70	Trench Safety	LS	$4,095.00	1	$4,095.00	1	$4,095.00	$0.00
71	Landscape and Sprinkler Repair Allowance	LS	$20,000.00	1	$20,000.00	1	$20,000.00	$0.00
72	Early Completion Incentive Allowance (Maximum)	LS	$50,000.00	1	$50,000.00	1	$50,000.00	$0.00
73	Mobilization and Insurance (5% Maximum)	EA	$135,000.00	1	$135,000.00	1	$135,000.00	$0.00
	Original Contract				**$2,845,591.00**		**$2,869,194.77**	**$23,603.77**

	Change Order No. 2							
NEW	Remove and Dispose of Ex. 12-inch DIP Waterline (CO#2)	LF	$15.00	830	$12,450.00	830	$12,450.00	$0.00
	Change Order #2 Items Paid Above	LS	$8,120.00	1	$8,120.00	0	$0.00	-$8,120.00
	Change Order No. 2				**$20,570.00**		**$12,450.00**	**-$8,120.00**
							Reconciled Total =	**$15,483.77**
	Change Order No. 3				**Item 2**			
Item 1	**Reconcile Robinson Waterline Phase II (above)**	**LS**	**$15,483.77**	**0**	**$0.00**	**1**	**$15,483.77**	
Item 2	**Additional Equipment Cost Due to Delay (CO#3)**	**CD**	**$1,900.00**	**18**	**$34,200.00**	**18**	**$34,200.00**	
Item 2	**Additional Manpower Cost Due to Delay (CO#3)**	**WD**	**$2,650.00**	**10**	**$26,500.00**	**10**	**$26,500.00**	
	Change Order No. 3				**$60,700.00**		**$76,183.77**	
	Robinson Waterline Phase II Total						**$2,942,344.77**	
	Change Order No. 1 (On-Cue Waterline)							
4	Open Trench 16" PVC Pipe	LF	$53.00	120	$6,360.00	107	$5,671.00	-$689.00
6	Open Trench 30" PVC Pipe	LF	$250.00	400	$100,000.00	375	$93,750.00	-$6,250.00
12	16" Butterfly Valve with Box	EA	$3,625.00	1	$3,625.00	1	$3,625.00	$0.00
14	30" Butterfly Valve with Box	EA	$13,865.00	2	$27,730.00	2	$27,730.00	$0.00
19	16" Epoxy Coated MJ 45 Degree Bend	EA	$1,765.00	2	$3,530.00	2	$3,530.00	$0.00
24	30" Epoxy Coated MJ 45 Degree Bend	EA	$4,445.00	4	$17,780.00	2	$8,890.00	-$8,890.00
32	30" x 30" MJ Tee	EA	$6,995.00	1	$6,995.00	1	$6,995.00	$0.00
36	30" x 16" MJ Reducer	EA	$2,990.00	1	$2,990.00	1	$2,990.00	$0.00
37	30" x 24" MJ Reducer	EA	$3,160.00	1	$3,160.00	1	$3,160.00	$0.00
48	Connection to Existing 16" Water Line	EA	$1,000.00	1	$1,000.00	1	$1,000.00	$0.00
49	Connection to Existing 24" Water Line	EA	$2,500.00	1	$2,500.00	1	$2,500.00	$0.00
50	Connection to Existing 30" Water Line	EA	$3,500.00	1	$3,500.00	1	$3,500.00	$0.00
73	Mobilization & Insurance (5%)	LS	$8,960.00	1	$8,960.00	1	$8,960.00	$0.00
NEW	Pressure Testing	LS	$2,500.00	1	$2,500.00	1	$2,500.00	$0.00
NEW	Disinfection	LS	$2,500.00	1	$2,500.00	1	$2,500.00	$0.00
	On-Cue Waterline				**$193,130.00**		**$177,301.00**	**-$15,829.00**
	On-Cue Waterline Final Cost						**$177,301.00**	
			Robinson Waterline II Final Change Order No. 3 (Item 1) =				**$15,483.77**	
			Robinson Waterline II Final Change Order No. 3 (Item 2) =				**$60,700.00**	
			On-Cue Waterline Final Change Order No. 3 (Item 3) =				**-$15,829.00**	
			Final Change Order No. 3 =				**$60,354.77**	
			Final Contract Price =				**$3,119,645.77**	
			Robinson Waterline Phase II Final Cost (WA0195) =				**$2,942,344.77**	
			On-Cue Waterline Final Cost (WA0328) =				**$177,301.00**	