

NORMAN UTILITIES AUTHORITY
CITY OF NORMAN
CLEVELAND COUNTY, OKLAHOMA

DATE: November 25, 2019
 CHANGE ORDER NO.: One (1)
 CONTRACT NO.: Contract #K-1819-~~144~~ **218**
 PROJECT: 2018 Groundwater Wellfield Development
 CONTRACTOR: Layne Christensen Company
4691 NE Highway 33
Guthrie, OK 73044

	<u>Contract Time</u>		<u>Contract Amount</u>
ORIGINAL:	<u>547</u>	calendar days	<u>\$4,714,421.72</u>
PREVIOUS CHANGE ORDERS:	<u>0</u>	calendar days	<u>\$0.00</u>
THIS CHANGE ORDER:	<u>160</u>	calendar days	<u>\$1,607,970.36</u>
REVISED AMOUNT:	<u>708</u>	calendar days	<u>\$6,322,392.08</u>
ORIGINAL START DATE:	<u>January 24, 2019</u>		
ORIGINAL COMPLETION DATE:	<u>July 24, 2020</u>		
PREVIOUS COMPLETION DATE:	<u>July 24, 2020</u>		
NEW COMPLETION DATE:	<u>December 31, 2020</u>		

DESCRIPTION:	\$ Increase	\$ Decrease
Item No. 1: Add installation of three (3) production wells and all applicable appurtenances as part of the 2018 Groundwater Wellfield Development Project. Increase contract time by 160 calendar days to complete the additional work. See attached Itemized Breakdown of quantities.	\$1,607,970.36	\$0.00

SUBMITTED BY
CONTRACTOR: *Kent M. Ward*
Layne Christensen Company

Date: 11/22/2019

RECOMMENDED BY
ENGINEER: *Rebecca Poole*
Rebecca Poole, PE, Carollo Engineers Inc.
OK PE 18265



DATE: 11/26/2019

RECOMMENDED BY
ENGINEER: _____
Chris Mattingly, Capital Project Engineer

Date: _____

ACCEPTED BY
NORMAN UTILITIES AUTHORITY: _____
City Attorney

Date: _____

ACCEPTED BY
NORMAN UTILITIES AUTHORITY: _____
Brea Clark, Mayor

Date: _____



Norman Utilities Authority
2018 Groundwater Wellfield Development
Contract No. K-1819-11
Change Order No. 1

Item No.	Description	Unit	Unit Price	Original Quantity	Original Cost	Additional Quantity	Additional Cost	Total REVISIED Quantity	Total REVISIED Cost
1	Project Mobilization (5% Max.)	LS	\$ 147,837.00	1	\$ 147,837.00	0	\$ -	1	\$ 147,837.00
2	Site Mobilization: Test Hole (0.5% Max. Each)	EA	\$ 2,250.70	10	\$ 22,507.00	0	\$ -	10	\$ 22,507.00
3	Site Mobilization: Production Well (0.5% Max. Each)	EA	\$ 7,172.63	6	\$ 43,035.78	3	\$ 21,517.89	9	\$ 64,553.67
4	Pre/Post Construction Videos	EA	\$ 834.00	6	\$ 5,004.00	3	\$ 2,502.00	9	\$ 7,506.00
5	Test Hole (Complete)	VF	\$ 62.00	7500	\$ 465,000.00	0	\$ -	7500	\$ 465,000.00
6	Test Hole Zone Water Quality Sampling	EA	\$ 3,671.00	70	\$ 256,970.00	1	\$ 3,671.00	71	\$ 260,641.00
7	Monitoring Well (Complete)	EA	\$ 70,911.00	6	\$ 425,466.00	0	\$ -	6	\$ 425,466.00
8	Production Well: Gun Perforated (Complete)	EA	\$ 155,712.00	3	\$ 467,136.00	3	\$ 467,136.00	6	\$ 934,272.00
9	Production Well: Screen and Gravel Packed (Complete)	EA	\$ 131,193.00	3	\$ 393,579.00	0	\$ -	3	\$ 393,579.00
9A	Production Well: Well Screen	VF	\$ 93.00	1200	\$ 111,600.00	0	\$ -	1200	\$ 111,600.00
10	Clearing and Grubbing (Production Well Site)	EA	\$ 5,778.00	6	\$ 34,668.00	3	\$ 17,334.00	9	\$ 52,002.00
11	Construction Staking	EA	\$ 5,556.00	6	\$ 33,336.00	3	\$ 16,668.00	9	\$ 50,004.00
12	Production Well: Pump/Motor & Appurtenances	EA	\$ 9,818.00	6	\$ 58,908.00	3	\$ 29,454.00	9	\$ 88,362.00
13	Production Well: Column Pipe	LF	\$ 19.00	4500	\$ 85,500.00	2250	\$ 42,750.00	6750	\$ 128,250.00
14	Production Well: Submersible Cable	LF	\$ 3.63	4500	\$ 16,335.00	2250	\$ 8,167.50	6750	\$ 24,502.50
15	Well Site Building (Complete)	EA	\$ 60,998.00	6	\$ 365,988.00	3	\$ 182,994.00	9	\$ 548,982.00
16	Electrical Equipment and Controls (Complete)	EA	\$ 156,833.00	6	\$ 940,998.00	3	\$ 470,499.00	9	\$ 1,411,497.00
17	Fiberglass Well Head Enclosure (Complete)	EA	\$ 3,667.00	6	\$ 22,002.00	3	\$ 11,001.00	9	\$ 33,003.00
18	Production Well: Test Pumping (24 hour)	EA	\$ 12,671.00	4	\$ 50,684.00	2	\$ 25,342.00	6	\$ 76,026.00
18A	Production Well: Test Pumping (5 day)	EA	\$ 24,888.00	2	\$ 49,776.00	1	\$ 24,888.00	3	\$ 74,664.00
19	Production Well: Disinfection	EA	\$ 305.00	6	\$ 1,830.00	3	\$ 915.00	9	\$ 2,745.00
20	Start-Up Service	EA	\$ 1,389.00	6	\$ 8,334.00	3	\$ 4,167.00	9	\$ 12,501.00
21	Water Quality Sampling (Final Production Well)	EA	\$ 4,953.00	6	\$ 29,718.00	3	\$ 14,859.00	9	\$ 44,577.00
22	1-1/2" PVC Level Transducer Pipe	LF	\$ 1.20	3000	\$ 3,600.00	1500	\$ 1,800.00	4500	\$ 5,400.00
23	ODOT Type A Aggregate Base with Excavation	CY	\$ 88.51	180	\$ 15,931.80	90	\$ 7,965.90	270	\$ 23,897.70
24	3" C150 DIP Waterline	LF	\$ 64.31	60	\$ 3,858.60	30	\$ 1,929.30	90	\$ 5,787.90
25	4" C150 DIP Waterline	LF	\$ 47.78	180	\$ 8,600.40	90	\$ 4,300.20	270	\$ 12,900.60
26	4" x 3" Tee (DIP) (FL x FL)	EA	\$ 292.78	6	\$ 1,756.68	3	\$ 878.34	9	\$ 2,635.02

Item No.	Description	Unit	Unit Price	Original Quantity	Original Cost	Additional Quantity	Additional Cost	Total REVISED Quantity	Total REVISED Cost
27	4" 90 degree Bend (DIP) Compact (MJ)	EA	\$ 145.56	6	\$ 873.36	3	\$ 436.68	9	\$ 1,310.04
28	4" 90 degree Bend (DIP) Compact (FL x MJ)	EA	\$ 160.56	6	\$ 963.36	3	\$ 481.68	9	\$ 1,445.04
29	4" Mega-Lug (Series 1104)	EA	\$ 64.81	6	\$ 388.86	3	\$ 194.43	9	\$ 583.29
30	6" Plug (MJ)	EA	\$ 170.56	6	\$ 1,023.36	3	\$ 511.68	9	\$ 1,535.04
31	6" x 4" Reducer (DIP) Compact (MJ)	EA	\$ 104.44	6	\$ 626.64	3	\$ 313.32	9	\$ 939.96
32	6" C900 PVC Waterline (Push-On Joint) (DR-14)	LF	\$ 19.18	390	\$ 7,480.20	195	\$ 3,740.10	585	\$ 11,220.30
33	6" 90 degree Bend (DIP) Compact (MJ)	EA	\$ 151.84	6	\$ 911.04	3	\$ 455.52	9	\$ 1,366.56
34	6" Mega-Lug (Series 2006PV)	EA	\$ 84.07	54	\$ 4,539.78	27	\$ 2,269.89	81	\$ 6,809.67
35	6" x 6" Tee (MJ)	EA	\$ 276.86	6	\$ 1,661.16	3	\$ 830.58	9	\$ 2,491.74
36	6" Gate Valve and Box	EA	\$ 935.00	6	\$ 5,610.00	3	\$ 2,805.00	9	\$ 8,415.00
37	Fire Hydrant Assembly (Complete)	EA	\$ 4,705.00	6	\$ 28,230.00	3	\$ 14,115.00	9	\$ 42,345.00
38	6" Blind Flange	EA	\$ 121.48	6	\$ 728.88	3	\$ 364.44	9	\$ 1,093.32
39	3" Gate Valve (FLx FL)	EA	\$ 584.26	6	\$ 3,505.56	3	\$ 1,752.78	9	\$ 5,258.34
40	3" Blow-Off Valve (FL x FL)	EA	\$ 3,456.48	6	\$ 20,738.88	3	\$ 10,369.44	9	\$ 31,108.32
41	3" Duck Bill Valve	EA	\$ 890.73	6	\$ 5,344.38	3	\$ 2,672.19	9	\$ 8,016.57
42	3/4" Ball Valve	EA	\$ 38.06	12	\$ 456.72	6	\$ 228.36	18	\$ 685.08
43	3" 90 degree Bend (DIP) Compact (MJ)	EA	\$ 250.00	6	\$ 1,500.00	3	\$ 750.00	9	\$ 2,250.00
44	4" Gate Valve (FLx FL)	EA	\$ 633.70	6	\$ 3,802.20	3	\$ 1,901.10	9	\$ 5,703.30
45	4" Check Valve (FL x FL)	EA	\$ 650.92	6	\$ 3,905.52	3	\$ 1,952.76	9	\$ 5,858.28
46	4" Flow Meter & Totalizer (FL x FL)	EA	\$ 8,039.44	6	\$ 48,236.64	3	\$ 24,118.32	9	\$ 72,354.96
47	Smooth Nosed Sample Tap	EA	\$ 122.96	6	\$ 737.76	3	\$ 368.88	9	\$ 1,106.64
48	Threaded Sample Tap	EA	\$ 12.78	6	\$ 76.68	3	\$ 38.34	9	\$ 115.02
49	Pressure Gauge and Switch	EA	\$ 2,658.33	12	\$ 31,899.96	6	\$ 15,949.98	18	\$ 47,849.94
50	Pressure Transmitter	EA	\$ 7,306.45	6	\$ 43,838.70	3	\$ 21,919.35	9	\$ 65,758.05
51	Antenna	EA	\$ 2,333.33	6	\$ 13,999.98	3	\$ 6,999.99	9	\$ 20,999.97
52	Concrete Encasement	LF	\$ 77.78	60	\$ 4,666.80	30	\$ 2,333.40	90	\$ 7,000.20
53	6" Portland Cement Concrete Driveway	SY	\$ 42.03	780	\$ 32,783.40	390	\$ 16,391.70	1170	\$ 49,175.10
54	6" Traffic Bound Surface Course	SY	\$ 14.54	1500	\$ 21,810.00	750	\$ 10,905.00	2250	\$ 32,715.00
55	18" C.G.M.P.	LF	\$ 22.58	240	\$ 5,419.20	120	\$ 2,709.60	360	\$ 8,128.80
56	18" Concrete Slope Wall	EA	\$ 194.44	12	\$ 2,333.28	6	\$ 1,166.64	18	\$ 3,499.92
57	Area Inlet	EA	\$ 1,982.96	6	\$ 11,897.76	3	\$ 5,948.88	9	\$ 17,846.64
58	6" PVC SCH 40 Drain Line	LF	\$ 12.48	600	\$ 7,488.00	300	\$ 3,744.00	900	\$ 11,232.00
59	6" Precast Concrete End Section	EA	\$ 611.11	6	\$ 3,666.66	3	\$ 1,833.33	9	\$ 5,499.99
60	Sidewalk (5' Wide)	SY	\$ 36.03	138	\$ 4,972.14	69	\$ 2,486.07	207	\$ 7,458.21
61	Type I Plain Rip Rap	CY	\$ 89.07	12	\$ 1,068.84	6	\$ 534.42	18	\$ 1,603.26
62	Type I Fence (Black Vinyl Coated)	LF	\$ 55.56	2280	\$ 126,676.80	1140	\$ 63,338.40	3420	\$ 190,015.20
63	16" Double Swing Gate	EA	\$ 933.33	6	\$ 5,599.98	3	\$ 2,799.99	9	\$ 8,399.97
64	Solid Slab Sod	SY	\$ 3.00	6000	\$ 18,000.00	3000	\$ 9,000.00	9000	\$ 27,000.00
65	Erosion Control and SWPPP (Per Site)	EA	\$ 2,833.33	6	\$ 16,999.98	3	\$ 8,499.99	9	\$ 25,499.97
66	Additional Site Improvements	LS	\$ 150,000.00	1	\$ 150,000.00	0	\$ -	1	\$ 150,000.00
TOTALS					\$ 4,714,421.72		\$ 1,607,970.36		\$ 6,322,392.08