

February 22, 2018

TO THE BOARD OF PUBLIC WORKS
CITY OF WAUKESHA, WISCONSIN

Periodical estimate for Partial Payment No. 7 to Zenith Tech, Inc. N6 W23633 Bluemound Rd., Waukesha, WI 53187 for W. Sunset Dr. And S. Grand Ave. Intersection Improvements.

Contract No. 4016

Item No	Bid Quantity	Completed Quantity	Description	Original		
				Amended	Amended	Amended
				Cost	Per Unit	Amount
					\$ 524,282.05	
					\$ 555,843.85	(CCO #1)
					\$ 651,967.00	(CCO #2)
1	1	1.00	Lump Sum Traffic Control	@ \$ 23,100.00	Lump Sum	\$23,100.00
2	1	1.0	Lump Sum Temporary Traffic Signal (W Sunset & S Grand)	@ \$ 20,550.00	Lump Sum	\$20,550.00
3	252	252	Lin. Ft. of 18-Inch PVC Sanitary Sewer	@ \$ 147.00	Lin. Ft.	\$37,044.00
4	20	20	Lin. Ft. of 6-Inch PVC Sanitary Lateral	@ \$ 128.00	Lin. Ft.	\$2,560.00
5	2	2	Rehabilitate Sanitary Manhole with Cementitious Liner	@ \$ 2,465.00	Each	\$4,930.00
6	2	2	Install Chimney Seal	@ \$ 410.00	Each	\$820.00
7	4	0	Chimney Replacement	@ \$ 1,025.00	Each	\$0.00
8	8	0	Storm Sewer Inlet Repair	@ \$ 410.00	Vert. Ft.	\$0.00
9	2	0	Storm Sewer Manhole Repair	@ \$ 410.00	Vert. Ft.	\$0.00
10	252	252	Lin. Ft. of Sanitary Sewer Televising - Prepaving	@ \$ 3.40	Lin. Ft.	\$856.80
11	2	2	Sanitary Lateral Televising - Prepaving	@ \$ 452.00	Each	\$904.00
12	50	0	Cu. Yds. of Shurry Backfill	@ \$ 93.00	Cu. Yd.	\$0.00
13	20	0	Silt Fence, Delivered, Installed and Maintained	@ \$ 15.50	Lin. Ft.	\$0.00
14	20	0	Straw Bales Delivered, Installed and Maintained	@ \$ 10.00	Each	\$0.00
15	6	6	Filter Fabric Inlet Protection	@ \$ 55.00	Each	\$330.00
16	800	512	Lin. Ft. of Sawcutting at Pavement Limits	@ \$ 2.00	Lin. Ft.	\$1,024.00
17	100	20	Tons of 1 1/4-Inch Dense Aggregate	@ \$ 20.00	Ton	\$400.00
18	12000	14,807	Sq. Ft. of Concrete Pavement Removal and Replacement	@ \$ 5.65	Sq. Ft.	\$83,659.55
19	1200	2,300	Sq. Ft. of Side Walk Removal	@ \$ 2.00	Sq. Ft.	\$4,600.00
20	800	1,252	Lin. Ft. of Concrete Curb and Gutter Removal and Replacement	@ \$ 42.00	Lin. Ft.	\$52,584.00
21	1200	3,548	Sq. Ft. of New 4-Inch Concrete Walk and Curb Ramps	@ \$ 5.25	Sq. Ft.	\$18,627.00
22	130	96	Sq. Ft. of Detectable Warning Surface	@ \$ 25.00	Sq. Ft.	\$2,400.00
23	50	27	Lin. Ft. of Concrete Curb - Pedestrian	@ \$ 25.00	Lin. Ft.	\$675.00
24	200	0	Sq. Ft. of Concrete Median Sloped Nose	@ \$ 7.50	Sq. Ft.	\$0.00
25	3000	2,400	Lin. Ft. of Pavement Markings, Yellow, Epoxy, 4-Inch	@ \$ 0.90	Lin. Ft.	\$2,160.00
26	1400	450	Lin. Ft. of Pavement Markings, White, Epoxy, 4-Inch	@ \$ 0.90	Lin. Ft.	\$405.00
27	1000	0	Lin. Ft. of Pavement Markings, White, Epoxy, 6-Inch	@ \$ 7.25	Lin. Ft.	\$0.00
28	600	250	Lin. Ft. of Pavement Markings, White, Epoxy, 8-Inch	@ \$ 1.65	Lin. Ft.	\$412.50
29	200	126	Lin. Ft. of Pavement Markings, White, Epoxy, 18-Inch	@ \$ 8.75	Lin. Ft.	\$1,102.50
30	300	0	Lin. Ft. of Pavement Markings, Yellow, Epoxy, 12-Inch	@ \$ 5.25	Lin. Ft.	\$0.00
31	600	0	Lin. Ft. of Pavement Markings, Yellow, Epoxy, 4-Inch, (30' Skip, 10' Line)	@ \$ 0.95	Lin. Ft.	\$0.00
32	14	0	Pavement Markings, White, Epoxy, Arrows, Type 2	@ \$ 220.00	Each	\$0.00
33	7	0	Pavement Markings, White, Epoxy, Words "ONLY"	@ \$ 260.00	Each	\$0.00
34	100	0	Topsoil and Sod (Includes Stripping)	@ \$ 18.50	Sq. Yd.	\$0.00
35	25	0	Extra Bags of Cement for High-Early-Strength Concrete	@ \$ 10.85	Each	\$0.00
36	7	0	Street Light Pull Boxes 15 x 30 Inch	@ \$ 720.00	Each	\$0.00
37	1	1	Temporary Street Lighting Overhead Wiring	@ \$ 5,645.00	Lump Sum	\$5,645.00
38	300	0	Lin. Ft. of #10 AWG wire	@ \$ 0.72	Lin. Ft.	\$0.00
39	300	440	Lin. Ft. of #6 AWG wire	@ \$ 0.87	Lin. Ft.	\$382.80

40	300	1,760	Lin. Ft. of #4 AWG wire	@ \$	1.13	Lin. Ft.	\$1,988.80
41	500	332	Conduit Rigid Nonmetallic Schedule 40 2-Inch (WisDOT Pay Item 652.0225)	@ \$	5.65	Lin. Ft.	\$1,875.80
42	1000	920	Conduit Rigid Nonmetallic Schedule 40 3-Inch (WisDOT Pay Item 652.0235)	@ \$	6.70	Lin. Ft.	\$6,164.00
43	14	22	Pull Boxes Steel 24x42-Inch (WisDOT Pay Item 653.0140)	@ \$	800.00	Each	\$17,600.00
44	9	9	Concrete Bases Type 1 (WisDOT Pay Item 654.0101)	@ \$	642.00	Each	\$5,778.00
45	6	4	Concrete Bases Type 2 (WisDOT Pay Item 654.0102) - W Sunset & Grand	@ \$	820.00	Each	\$3,280.00
46	1	1	Concrete Bases Type 2 (WisDOT Pay Item 654.0102) - W Sunset & West	@ \$	820.00	Each	\$820.00
47	1	1	Concrete Bases Type 5 (WisDOT Pay Item 654.0105)	@ \$	667.00	Each	\$667.00
48	2	2	Concrete Bases Type 10 (WisDOT Pay Item 654.0110) - W Sunset & Grand	@ \$	3,800.00	Each	\$7,600.00
49	1	1	Concrete Bases Type 10 (WisDOT Pay Item 654.0110) - W Sunset & West	@ \$	3,800.00	Each	\$3,800.00
50	1	1	Concrete Control Cabinet Bases Type 9 Special (WisDOT Pay Item 654.0217)	@ \$	1,285.00	Each	\$1,285.00
51	400	0	Cable Traffic Signal 5-14 AWG (WisDOT Pay Item 655.0230)	@ \$	1.05	Lin. Ft.	\$0.00
52	400	1,580	Cable Traffic Signal 7-14 AWG (WisDOT Pay Item 655.0240)	@ \$	1.10	Lin. Ft.	\$1,738.00
53	1600	2,254	Cable Traffic Signal 12-14 AWG (WisDOT Pay Item 655.0260)	@ \$	1.30	Lin. Ft.	\$2,930.20
54	600	733	Cable Type UF 2-10 AWG Grounded (WisDOT Pay Item 655.0320)	@ \$	1.40	Lin. Ft.	\$1,026.20
55	1200	1,190	Electrical Wire Traffic Signals 10 AWG (WisDOT Pay Item 655.0515)	@ \$	0.75	Lin. Ft.	\$892.50
56	600	0	Electrical Wire Lighting 10 AWG (WisDOT Pay Item 655.0615)	@ \$	0.75	Lin. Ft.	\$0.00
57	1	1	Electrical Service Meter Breaker Pedestal W Sunset & S Grand (WisDOT Pay Item 656.0200.01)	@ \$	1,540.00	Lump Sum	\$1,540.00
58	9	8	Pedestal Bases (WisDOT Pay Item 657.0100)	@ \$	155.00	Each	\$1,240.00
59	8	5	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle (WisDOT Pay Item 657.0255)	@ \$	325.00	Each	\$1,625.00
60	2	2	Poles Type 2 (WisDOT Pay Item 657.0305) - W Sunset & Grand	@ \$	1,310.00	Each	\$2,620.00
61	1	0	Poles Type 2 (WisDOT Pay Item 657.0305) - W Sunset & West	@ \$	1,310.00	Each	\$0.00
62	4	4	Traffic Signal Standards Aluminum 15-Ft (WisDOT Pay Item 657.0425)	@ \$	456.00	Each	\$1,824.00
63	4	4	Traffic Signal Standards Aluminum 10-Ft (WisDOT Pay Item 657.0430) - W Sunset & Grand	@ \$	420.00	Each	\$1,680.00
64	1	0	Traffic Signal Standards Aluminum 10-Ft (WisDOT Pay Item 657.0430) - W Sunset & West	@ \$	420.00	Each	\$0.00
65	2	2	Trombone Arms 20-Ft (WisDOT Pay Item 657.0590) - W Sunset & Grand	@ \$	1,050.00	Each	\$2,100.00
66	1	0	Trombone Arms 20-Ft (WisDOT Pay Item 657.0590) - W Sunset & West	@ \$	1,050.00	Each	\$0.00
67	10	10	Traffic Signal Face 3-12 Inch Vertical (WisDOT Pay Item 658.0110)	@ \$	325.00	Each	\$3,250.00
68	2	2	Traffic Signal Face 4-12 Inch Vertical (WisDOT Pay Item 658.0115)	@ \$	380.00	Each	\$760.00
69	10	10	Backplates Signal Face 3 Section 12-Inch (WisDOT Pay Item 658.0215)	@ \$	62.00	Each	\$620.00
70	2	2	Backplates Signal Face 4 Section 12-Inch (WisDOT Pay Item 658.0220)	@ \$	66.00	Each	\$132.00
71	4	4	LED Modules 12-Inch Red Ball (WisDOT Pay Item 658.0600)	@ \$	64.00	Each	\$256.00
72	4	4	LED Modules 12-Inch Yellow Ball (WisDOT Pay Item 658.0605)	@ \$	65.00	Each	\$260.00
73	4	4	LED Modules 12-Inch Green Ball (WisDOT Pay Item 658.0610)	@ \$	65.00	Each	\$260.00
74	8	4	LED Modules 12-Inch Red Arrow (WisDOT Pay Item 658.0615)	@ \$	65.00	Each	\$260.00
75	16	16	LED Modules 12-Inch Yellow Arrow (WisDOT Pay Item 658.0620)	@ \$	65.00	Each	\$1,040.00
76	2	2	LED Modules 12-Inch Green Arrow (WisDOT Pay Item 658.0625)	@ \$	65.00	Each	\$130.00

77	1	1	Signal Mounting Hardware W Sunset & S Grand (WisDOT Pay Item 658.5069.01)	@	\$ 2,360.00	Lump Sum	\$2,360.00
78	2	2	Poles Type 9 (SPV.0060.01) - W Sunset & Grand	@	\$ 3,695.00	Each	\$7,390.00
79	1	1	Poles Type 9 (SPV.0060.02) - W Sunset & West	@	\$ 3,695.00	Each	\$3,695.00
80	2	2	Monotube Arms 30-Ft (SPV.0060.03) - W Sunset & Grand	@	\$ 3,285.00	Each	\$6,570.00
81	1	1	Traffic Signal Controller and Cabinet 8-Phase Fully Actuated (SPV.0060.04) - W Sunset & Grand	@	\$ 22,010.00	Each	\$22,010.00
82	1	1	Video Vehicle Detection System W Sunset & S Grand	@	\$ 22,985.00	Each	\$22,985.00
83	1	1	Emergency Vehicle Preemption System W Sunset & S Grand	@	\$ 8,930.00	Each	\$8,930.00
84	1	1	Audible Pedestrian Push Button System for W Sunset & S Grand	@	\$ 10,470.00	Each	\$10,470.00
85	1	1	Remove Traffic Signals W Sunset & Grand	@	\$ 2,565.00	Lump Sum	\$2,565.00
86	9	9	Remove, Store and Reinstall Existing Lighting Luminaires	@	\$ 72.00	Each	\$648.00
87	8	8	Remove, Store and Reinstall Existing 16-Inch Countdown Pedestrian Heads	@	\$ 230.00	Each	\$1,840.00
88	8	8	Remove, Store and Reinstall Existing 3 Face Vertical Signal Heads	@	\$ 230.00	Each	\$1,840.00
89	5	3	Remove, Relocate and Reinstall Existing Type 4 Pole with Luminaire Arms	@	\$ 975.00	Each	\$2,925.00
90	1	0	Remove Existing Push Button and Pedestrian Head from Existing Type 9 Pole and Reinstall on New 10-FT Standard Pole - Sunset & West	@	\$ 130.00	Lump Sum	\$0.00
91	1	0	Remove Existing 30-FT Monotube Arm with Attached Sign, Signal Heads and EVP Head, Store and Reinstall on New Type 9 Post - W Sunset & West	@	\$ 2,050.00	Lump Sum	\$0.00
92	1	0	Remove and Dispose of Existing Type 9 Monotube Pole - W Sunset & West	@	\$ 1,230.00	Lump Sum	\$0.00
93	1	0	Manufacture a Special Plate to be Mounted on Existing Type 10 Concrete Base to Mount a Pedestal Base - W Sunset & West	@	\$ 770.00	Lump Sum	\$0.00
94	1	0	Install City Furnished 3 Face Vertical Head on New 20-FT Trombone Arm - W Sunset & West	@	\$ 130.00	Lump Sum	\$0.00
95	1	0	Install City Furnished Pedestrian Head to be Mounted on Existing Pole - W Sunset & West	@	\$ 130.00	Lump Sum	\$0.00
Alt Bid	16000	23,304	Sq. Ft of Concrete Pavement Removal and Replacement (Sunset Sta. 26+00 to 35+00)	@	\$ 5.65	Lump Sum	\$131,667.60
CCO 1	1	1	Additional Asphalt Resurfacing Work	@	\$ 31,561.80	Lump Sum	\$31,561.80
Extra 1		1	Manhole Structure Installation at Sunset & Grand	@	\$ 4,400.00	Each	\$4,400.00
Extra 2		1	Monotube Arms 30-Ft (SPV.0060.03) - W Sunset & S West Ave	@	\$ 3,285.00	Each	\$3,285.00
Total							\$607,357.05
Less Retainage							\$16,299.18
Total							\$591,057.87
Less Previously Paid							\$532,542.15
Total Amount Due							\$58,515.72

This estimate has been checked by the Engineering Department and we recommend that the above amount of \$58,515.72 be allowed.

Respectfully Submitted,



Fred V. Abadi, PhD., P.E.
Director of Public Works