

January 5, 2017

TO THE BOARD OF PUBLIC WORKS
CITY OF WAUKESHA, WISCONSIN

Periodical estimate for Partial Payment No. 11 (Final) to Zignego, Inc. W226 N2940 Duplainville Rd., Waukesha, WI 53186 for Summit Avenue - **Phase 1** Utility and Street Improvements - **Concrete Pavement**.

Contract No. 3918

6/16/2015

\$ 1,263,142.03

Item No	Quantity	Description		Cost	Per Unit	Amount
1	249	12-Inch Water Main and Fittings	@	\$232.00	Lin. Ft.	\$57,768.00
2	18	6-Inch Water Main and Fittings	@	\$245.00	Lin. Ft.	\$4,410.00
3	1	Furnish and Install 12" Gate Valve	@	\$6,500.00	Each	\$6,500.00
4	1	Furnish and Install 6" Gate Valve	@	\$4,100.00	Each	\$4,100.00
5	1	Connect New Service Lateral (SL1)	@	\$3,200.00	Each	\$3,200.00
6	1	Connect Service Lateral (SL2)	@	\$3,400.00	Each	\$3,400.00
7	2	Connect Service Lateral (SL3)	@	\$4,250.00	Each	\$8,500.00
8	1	Abandon Valve Box	@	\$500.00	Each	\$500.00
9	12.3	8-Inch PVC Sanitary Sewer	@	\$710.00	Lin. Ft.	\$8,733.00
10	1,672.3	8-Inch CIPP Sewer Lining	@	\$30.00	Lin. Ft.	\$50,169.00
11	12	1 - 48-Inch Diameter Sanitary Sewer Manhole with Outside Drop	@	\$1,000.00	Vert. Ft.	\$12,000.00
12	57.92	Rehabilitate Manhole with Cementitious Liner	@	\$145.00	Vert. Ft.	\$8,398.40
13	18	Sanitary Lateral Cleanout	@	\$1,286.00	Each	\$23,148.00
14	17	Sanitary Lateral Cleaning and Pre-lining Video Inspection	@	\$262.00	Each	\$4,454.00
15	1	Sanitary Lateral Spot Repair (Up to 5 Feet of Repair at Each Spot)	@	\$3,000.00	Each	\$3,000.00
16	17	CIPP Lateral Lining Within 10 Feet of Sewer Main	@	\$2,430.00	Each	\$41,310.00
17	269.9	CIPP Lateral Lining Additional Length Over 10 Feet from Sewer Main	@	\$50.00	Lin. Ft.	\$13,495.00
18	3	Lateral Connection Test and Seal	@	\$525.00	Each	\$1,575.00
19	0	Pre-Paving Main Line Sewer Televising, Sanitary	@	\$2.00	Lin. Ft.	\$0.00
20	1,754.1	Pre-Paving Main Line Sewer Televising, Storm	@	\$3.00	Lin. Ft.	\$5,262.30
21	4	Pre-Paving Lateral Sewer Televising	@	\$260.00	Each	\$1,040.00
22	0	8-Inch Storm Sewer (PVC)	@	\$60.00	Lin. Ft.	\$0.00
23	279.2	12-Inch Storm Sewer (RCSP)	@	\$107.00	Lin. Ft.	\$29,874.40
24	223.5	15-Inch Storm Sewer (RCSP)	@	\$99.00	Lin. Ft.	\$22,126.50
25	16.5	18-Inch Storm Sewer (RCSP)	@	\$130.00	Lin. Ft.	\$2,145.00
26	94.4	19 Standard Storm Inlets	@	\$174.00	Vert. Ft.	\$16,425.60
27	19.6	3 Standard Storm Manholes	@	\$290.00	Vert. Ft.	\$5,684.00
28	0	Slurry Backfill	@	\$110.00	Cu. Yd.	\$0.00
29	1	Traffic Control (Including Detour) (100%)	@	\$40,000.00	Lump Sum	\$40,000.00
30	738.9	Sawcutting at Pavement Limits	@	\$2.00	Lin. Ft.	\$1,477.80
31	10.4	Chimney Replacement	@	\$300.00	Vert. Ft.	\$3,120.00
32	6	Chimney Seals	@	\$460.00	Each	\$2,760.00
33	2,806.5	Concrete Curb and Gutter Removal	@	\$1.00	Lin. Ft.	\$2,806.50
34	6,685.6	Pavement Removal	@	\$4.00	Sq. Yd.	\$26,742.40
35	4,235.2	1¼-Inch Dense Aggregate	@	\$12.00	Ton	\$50,822.40
36	20.5	1¼-Inch Crushed Stone Backfill (Includes Undercut)	@	\$24.00	Ton	\$492.00
37	726.7	3-Inch Crushed Stone Backfill (Includes Undercut)	@	\$24.00	Ton	\$17,440.80
38	577	Geotextile Fabric, Type SAS	@	\$2.00	Sq. Yd.	\$1,154.00


39	1,410	Shaping and Grading Roadway Base	@	\$50.00	Lin. Ft.	\$70,500.00
40	2,832.6	30-Inch Combination Concrete Curb and Gutter	@	\$12.86	Lin. Ft.	\$36,427.24
41	6,150.5	9-Inch Concrete Pavement, Doweled	@	\$35.20	Sq. Yd.	\$216,497.60
42	2,383	5-Inch HMA Pavement (Includes Asphalt Curb)	@	\$7.50	Sq. Ft.	\$17,872.50
43	936	4-Inch HMA Pavement	@	\$6.75	Sq. Ft.	\$6,318.00
44	10,900	Walk and Drive Approach Removal	@	\$1.00	Sq. Ft.	\$10,900.00
45	7,819.3	New 4-Inch Concrete Walk and Curb Ramps	@	\$4.00	Sq. Ft.	\$31,277.20
46	0	Concrete Curb - Pedestrian	@	\$50.00	Lin. Ft.	\$0.00
47	1,436.3	New 6-Inch Concrete Walk and Drive Approach	@	\$4.11	Sq. Ft.	\$5,903.19
48	1,494.7	New 7-Inch Concrete Walk and Drive Approach	@	\$5.00	Sq. Ft.	\$7,473.50
49	176	Detectable Warning Field	@	\$30.00	Sq. Ft.	\$5,280.00
50	0	Extra Bags of Cement for High-Early-Strength Concrete	@	\$10.00	Each	\$0.00
51	1,135.9	Grooved in Place Pavement Markings, Double Yellow, Preformed Plastic, 4-Inch	@	\$3.85	Lin. Ft.	\$4,373.22
52	120	Grooved in Place Pavement Markings, White 10-Ft Dash, 30-Ft Skip. Preformed Plastic, 4-Inch	@	\$3.85	Lin. Ft.	\$462.00
53	555.9	Grooved in Place Pavement Markings, White, Preformed Plastic, 8-Inch	@	\$6.95	Lin. Ft.	\$3,863.51
54	75	Grooved in Place Pavement Markings, White 3-Ft Dash, 9-Ft Skip. Preformed Thermoplastic, 8-Inch	@	\$13.00	Lin. Ft.	\$975.00
55	773.3	Grooved in Place Pavement Markings, White, Preformed Thermoplastic, 6-Inch	@	\$18.75	Lin. Ft.	\$14,499.38
56	145.9	Grooved in Place Pavement Markings, White, Preformed Thermoplastic, 18-Inch	@	\$30.00	Lin. Ft.	\$4,377.00
57	9	Grooved in Place Pavement Markings, Arrows, Type 2, White. Preformed Thermoplastic	@	\$550.00	Each	\$4,950.00
58	6	Grooved in Place Pavement Markings, Words, Only, White. Preformed Thermoplastic	@	\$710.00	Each	\$4,260.00
59	13	Valve Box Adjustments	@	\$150.00	Each	\$1,950.00
60	1,815.4	Topsoil and Sod (Includes Stripping)	@	\$10.05	Sq. Yd.	\$18,244.77
61	0	Silt Fence, Delivered, Installed and Maintained	@	\$2.02	Lin. Ft.	\$0.00
62	0	Straw Bales Delivered, Installed and Maintained	@	\$15.15	Each	\$0.00
63	35	Filter Fabric Inlet Protection	@	\$60.00	Each	\$2,100.00
64	1	Temporary Street Lighting	@	\$24,441.00	Lump Sum	\$24,441.00
65	1,052.5	Non Metallic Conduit, Street Light, Polyethylene Duct, 2-Inch	@	\$7.00	Lin. Ft.	\$7,367.50
66	1,341	Non Metallic Conduit, Communications, Polyethylene Duct, 3-Inch	@	\$9.00	Lin. Ft.	\$12,069.00
67	7	Street Light Pull Boxes, 15-Inch x 30-Inch	@	\$793.00	Each	\$5,551.00
68	11	Communications Pull Boxes, 24-Inch x 36-Inch	@	\$848.00	Each	\$9,328.00
69	6	Concrete Bases, Type 5	@	\$764.00	Each	\$4,584.00
70	1,539.6	Electrical Wire 10 AWG	@	\$1.00	Lin. Ft.	\$1,539.60
71	1,306.8	Electrical Wire 6 AWG	@	\$1.50	Lin. Ft.	\$1,960.20
72	3,356	Electrical Wire 4 AWG	@	\$2.00	Lin. Ft.	\$6,712.00
73	2	Install Fiber Optic Communications in Signal Cabinet	@	\$3,503.00	Each	\$7,006.00
74	1	Modify Traffic Signal, Intersection of N. Grandview Blvd & Summit Avenue	@	\$844.00	Lump Sum	\$844.00
75	1,948.3	Furnish and Install 6-CT Fiber Optic Cable	@	\$2.66	Lin. Ft.	\$5,182.48
76	1,400	Remove Existing Copper Communication Cable	@	\$1.10	Lin. Ft.	\$1,540.00
77	1	Furnish and Install Overhead Sign Structure	@	\$20,162.00	Lump Sum	\$20,162.00
78	104.1	Conduit Rigid Nonmetallic Schedule 40 2-Inch (WisDOTPay Item 652.0225)	@	\$5.61	Lin. Ft.	\$584.00
79	938.6	Conduit Rigid Nonmetallic Schedule 40 3-Inch (WisDOTPay Item 652.0235)	@	\$6.85	Lin. Ft.	\$6,429.41
80	10	Pull Boxes Steel 24x42-Inch (WisDOT Pay Item 653.0140)	@	\$803.16	Each	\$8,031.60

81	4	Concrete Bases Type 1 (WisDOT Pay Item 654.0101) @	\$578.27	Each	\$2,313.08
82	4	Concrete Bases Type 2 (WisDOT Pay Item 654.0102) @	\$881.81	Each	\$3,527.24
83	3	Concrete Bases Type 5 (WisDOT Pay Item 654.0105) @	\$760.00	Each	\$2,280.00
84	2	Concrete Bases Type 10 (WisDOT Pay Item 654.0110) @	\$4,314.41	Each	\$8,628.82
85	1	Concrete Control Cabinet Bases Type 9 Special (WisDOT Pay Item 654.0217) @	\$2,015.00	Each	\$2,015.00
86	570	Cable Traffic Signal 5-14 AWG (WisDOT Pay Item 655.0230) @	\$1.13	Lin. Ft.	\$644.10
87	1,105	Cable Traffic Signal 7-14 AWG (WisDOT Pay Item 655.0240) @	\$1.30	Lin. Ft.	\$1,436.50
88	1,620	Cable Traffic Signal 12-14 AWG (WisDOT Pay Item 655.0260) @	\$1.88	Lin. Ft.	\$3,045.60
89	573	Cable Type UF 2-10 AWG Grounded (WisDOT Pay Item 655.0320) @	\$0.91	Lin. Ft.	\$521.43
90	1,050	Electrical Wire Traffic Signals 10 AWG (WisDOT Pay Item 655.0515) @	\$0.81	Lin. Ft.	\$850.50
91	660	Electrical Wire Lighting 10 AWG (WisDOT Pay Item 655.0615) @	\$0.81	Lin. Ft.	\$534.60
92	1	Electrical Service Meter Breaker Pedestal USH 18 & Moreland Boulevard (WisDOT Pay Item 656.0200.01) @	\$1,230.38	Lump Sum	\$1,230.38
93	4	Pedestal Bases (WisDOT Pay Item 657.0100) @	\$240.60	Each	\$962.40
94	6	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle (WisDOT Pay Item 657.0255) @	\$402.72	Each	\$2,416.32
95	2	Poles Type 2 (WisDOT Pay Item 657.0305) @	\$1,354.36	Each	\$2,708.72
96	2	Poles Type 3 (WisDOT Pay Item 657.0310) @	\$2,755.22	Each	\$5,510.44
97	2	Poles Type 5 - Aluminum (WisDOT Pay Item 657.0322) @	\$1,300.00	Each	\$2,600.00
98	0	Traffic Signal Standards Aluminum 3.5-Ft (WisDOT Pay Item 657.0405) @	\$191.30	Each	\$0.00
99	4	Traffic Signal Standards Aluminum 15-Ft (WisDOT Pay Item 657.0425) @	\$596.00	Each	\$2,384.00
100	2	Trombone Arms 15-Ft (WisDOT Pay Item 657.0585) @	\$1,431.77	Each	\$2,863.54
101	6	Luminaire Arms Single Member 4-Inch Clamp 6-Ft (WisDOT Pay Item 657.0609) @	\$262.63	Each	\$1,575.78
102	16	Traffic Signal Face 3-12 Inch Vertical (WisDOT Pay Item 658.0110) @	\$446.71	Each	\$7,147.36
103	4	Traffic Signal Face 4-12 Inch Vertical (WisDOT Pay Item 658.0115) @	\$552.00	Each	\$2,208.00
104	16	Backplates Signal Face 3 Section 12-Inch (WisDOT Pay Item 658.0215) @	\$94.82	Each	\$1,517.12
105	4	Backplates Signal Face 4 Section 12-Inch (WisDOT Pay Item 658.0220) @	\$101.31	Each	\$405.24
106	8	Pedestrian Signal Face 16-Inch (WisDOT Pay Item 658.0416) @	\$311.64	Each	\$2,493.12
107	0	Pedestrian Push Buttons (WisDOT Pay Item 658.0500) @	\$292.12	Each	\$0.00
108	12	LED Modules 12-Inch Red Ball (WisDOT Pay Item 658.0600) @	\$53.18	Each	\$638.16
109	12	LED Modules 12-Inch Yellow Ball (WisDOT Pay Item 658.0605) @	\$54.48	Each	\$653.76
110	12	LED Modules 12-Inch Green Ball (WisDOT Pay Item 658.0610) @	\$55.77	Each	\$669.24
111	8	LED Modules 12-Inch Red Arrow (WisDOT Pay Item 658.0615) @	\$53.18	Each	\$425.44
112	16	LED Modules 12-Inch Yellow Arrow (WisDOT Pay Item 658.0620) @	\$54.48	Each	\$871.68

113	4	LED Modules 12-Inch Green Arrow (WisDOT Pay Item 658.0625)	@	\$55.77	Each	\$223.08
114	8	LED Modules Pedestrian Countdown Timer 16-Inch (WisDOT Pay Item 658.0635)	@	\$272.00	Each	\$2,176.00
115	1	Signal Mounting Hardware USH 18 & Moreland Boulevard (WisDOT Pay Item 658.5069.01)	@	\$3,746.47	Lump Sum	\$3,746.47
116	8	Luminaires Utility LED C	@	\$732.43	Each	\$5,859.44
117	2	Poles Type 9 (SPV.0060.01)	@	\$5,180.42	Each	\$10,360.84
118	2	Monotube Arms 30-Ft (SPV.0060.02)	@	\$3,500.00	Each	\$7,000.00
119	1	Traffic Signal Controller and Cabinet 8-Phase Fully Actuated (SPV.0060.03)	@	\$22,350.00	Each	\$22,350.00
120	1	Video Vehicle Detection System USH 18 & Moreland Boulevard (SPV.0105.01)	@	\$26,257.63	Each	\$26,257.63
121	1	Emergency Vehicle Preemption System USH 18 & Moreland Boulevard (SPV.0105.02)	@	\$9,783.26	Each	\$9,783.26
122	1	Remove Traffic Signals USH 18 & Moreland Boulevard (SPV.0105.03)	@	\$3,295.00	Lump Sum	\$3,295.00
Extra No. 1	10	Pedestrian Push Buttons - Revised	@	\$1,018.49	Each	\$10,184.90
Extra No. 2	1	Additional Work at E. Moreland Blvd.Beyond Paving Limits	@	\$7,619.46	Lump Sum	\$7,619.46
Extra No. 3	1	Temporary Pavement Markings	@	\$4,164.30	Lump Sum	\$4,164.30
Extra No. 4	1	Heavy Cleaning of Storm Sewers	@	\$2,271.00	Lump Sum	\$2,271.00
Extra No. 5	1	Removal of Conflicting Pavement Markings	@	\$2,028.48	Lump Sum	\$2,028.48
Subtotal						\$1,258,267.43
Less Amount Previously Paid						\$1,253,238.95
Total Amount Due						<u>\$5,028.48</u>

This estimate has been checked by the Engineering Department and we recommend that the above amount of \$5,028.48 be allowed.

Respectfully Submitted,


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