

July 21, 2016

TO THE BOARD OF PUBLIC WORKS
CITY OF WAUKESHA, WISCONSIN

Periodical estimate for Partial Payment No. 5 to Advance Construction, Inc. 2141 Woodale Ave., Green Bay 54313, for E. Moreland Blvd.
Utility and Street Improvements - **Concrete.**

Contract No. 3934

2/26/2016

\$ 4,907,507.57

Item No	Quantity	Description	Cost	Per Unit	Amount
1	0.5	Traffic Control	@	\$105,000.00 Lump Sum	\$52,500.00
2	0.7	E. Moreland Blvd. Detour	@	\$5,600.00 Lump Sum	\$3,920.00
3	5	Fence Safety (WisDOT 616.0700.S.)	@	\$3.00 Lin. Ft.	\$15.00
4	0	Sawcutting at Pavement Limits	@	\$2.50 Lin. Ft.	\$0.00
5	173	Clearing and Grubbing	@	\$45.00 Inch Dia.	\$7,785.00
6	6,900	Concrete Curb and Gutter Removal	@	\$2.00 Lin. Ft.	\$13,800.00
7	19,390	Pavement Removal	@	\$2.00 Sq. Yd.	\$38,780.00
8	2,915	Sidewalk and Drive Approach Removal	@	\$1.00 Sq. Ft.	\$2,915.00
9	0	1¼-Inch Dense Aggregate	@	\$13.00 Ton	\$0.00
10	0	1¼-Inch Crushed Stone Backfill	@	\$25.00 Ton	\$0.00
11	0	3-Inch Crushed Stone Backfill	@	\$25.00 Ton	\$0.00
12	0	Geotextile Fabric, Type SAS	@	\$2.25 Sq. Yd.	\$0.00
13	0	Shaping and Grading of Roadway Base	@	\$25.00 Lin. Ft.	\$0.00
14	0	30-Inch Combination Concrete Curb and Gutter	@	\$12.50 Lin. Ft.	\$0.00
15	0	Concrete Curb and Gutter Type 30G (WisDOT 601.0413)	@	\$50.00 Lin. Ft.	\$0.00
16	0	9-Inch Concrete Pavement, Doweled	@	\$35.00 Sq. Yd.	\$0.00
17	0	8-Inch Concrete Pavement, Doweled	@	\$35.00 Sq. Yd.	\$0.00
18	0	HMA Pavement Type E-3, 19.0 mm PG 64-28	@	\$115.00 Ton	\$0.00
19	0	HMA Pavement Type E-3, 12.5 mm PG 64-28	@	\$120.00 Ton	\$0.00
20	0	HMA Pavement Type E-3, 9.5 mm PG 64-28	@	\$145.00 Ton	\$0.00
21	0	4-Inch HMA Pavement for Driveways	@	\$5.20 Sq. Ft.	\$0.00
22	0	HMA Butt Joint	@	\$5.40 Sq. Ft.	\$0.00
23	0	Concrete Curb - Pedestrian	@	\$50.00 Lin. Ft.	\$0.00
24	0	Remove, Salvage and Re-install Brick Pavers at Frame Park, SPV.0165.01	@	\$38.00 Sq. Ft.	\$0.00
25	0	Stamped Colored Concrete Sidewalk 4-Inch, SPV.0165.02	@	\$9.00 Sq. Ft.	\$0.00
26	0	New 4-Inch Concrete Sidewalk and Curb Ramps	@	\$4.40 Sq. Ft.	\$0.00
27	0	New 6-Inch Concrete Sidewalk and Drive Approach	@	\$4.40 Sq. Ft.	\$0.00
28	0	New 7-Inch Concrete Sidewalk and Drive Approach	@	\$4.70 Sq. Ft.	\$0.00
29	0	Concrete Slope Nose	@	\$10.00 Sq. Ft.	\$0.00
30	0	Detectable Warning Field	@	\$45.00 Sq. Ft.	\$0.00
31	0	Extra Bags of Cement for High-Early-Strength Concrete	@	\$10.00 Each	\$0.00
32	0	Pavement Marking Epoxy 4-Inch	@	\$1.55 Lin. Ft.	\$0.00
33	0	Pavement Marking Epoxy 8-Inch	@	\$2.05 Lin. Ft.	\$0.00
34	0	Pavement Marking Diagonal Epoxy 12-Inch	@	\$8.75 Lin. Ft.	\$0.00
35	0	Pavement Marking Stop Line Epoxy 18-Inch	@	\$10.00 Lin. Ft.	\$0.00
36	0	Pavement Marking Crosswalk Epoxy 6-Inch	@	\$7.50 Lin. Ft.	\$0.00
37	0	Pavement Marking Arrows Epoxy Type 2	@	\$275.00 Each	\$0.00
38	0	Pavement Marking Words Epoxy	@	\$335.00 Each	\$0.00
39	0	Pavement Marking Railroad Crossings Epoxy	@	\$535.00 Each	\$0.00

Item No	Quantity	Description	Cost	Per Unit	Amount
40	0	Pavement Marking Island Nose Epoxy	@	\$125.00 Each	\$0.00
41	0	Signs Reflective Type II	@	\$21.40 Sq. Ft.	\$0.00
42	0	Moving Signs	@	\$125.00 Each	\$0.00
43	0	Moving Small Sign Supports	@	\$50.00 Each	\$0.00
44	100	Removing Signs	@	\$18.00 Each	\$1,800.00
45	50	Removing Small Sign Supports	@	\$18.00 Each	\$900.00
46	0	Metal Sign Posts, 2.5-Inch Round	@	\$125.00 Each	\$0.00
47	0	Square Break-Away Posts, SPV 0060.12	@	\$150.00 Each	\$0.00
48	0	Topsoil and Sod	@	\$7.45 Sq. Yd.	\$0.00
49	0	Topsoil, Seed, and Erosion Mat	@	\$4.15 Sq. Yd.	\$0.00
50	288	Silt Fence, Delivered, Installed and Maintained	@	\$2.00 Lin. Ft.	\$576.00
51	105	Turbidity Barrier Delivered, Installed and Maintained	@	\$50.00 Lin. Ft.	\$5,250.00
52	0	Straw Bales Delivered, Installed and Maintained	@	\$12.00 Each	\$0.00
53	41	Filter Fabric Inlet Protection, Type A and C	@	\$68.00 Each	\$2,788.00
54	1	Temporary Street Lighting	@	\$55,650.25 Lump Sum	\$55,650.25
55	0	Non Metallic Conduit, Street Light, Polyethylene Duct, Black, 2-Inch	@	\$5.03 Lin. Ft.	\$0.00
56	0	Street Light Pull Boxes, 15-Inch x 30-Inch	@	\$322.36 Each	\$0.00
57	0	Concrete Bases, Type 5	@	\$716.94 Each	\$0.00
58	0	Street Light Control Cabinet	@	\$5,420.79 Each	\$0.00
59	0	Concrete Control Cabinet Bases Type 9 Special (WisDOT 654.0217)	@	\$1,693.02 Each	\$0.00
60	0	Electrical Wire Lighting 4 AWG (WisDOT 655.0630)	@	\$1.34 Lin. Ft.	\$0.00
61	0	Electrical Service Meter Breaker Pedestal – (Lighting - E. Moreland Blvd. and White Rock Avenue) (WisDOT 656.0200.02)	@	\$1,160.99 Lump Sum	\$0.00
62	6	Remove Existing Roadway Lighting Unit, SPV.0060.09	@	\$206.73 Each	\$1,240.38
63	11	Remove and Re-Install Lighting Assembly, SPV.0060.10	@	\$396.02 Each	\$4,356.22
64	0	Removing Existing Light Control Cabinet, SPV.0060.11	@	\$413.45 Each	\$0.00
65	0	Conduit Rigid Nonmetallic Schedule 40 2-Inch (WisDOT 652.0225)	@	\$4.77 Lin. Ft.	\$0.00
66	0	Conduit Rigid Nonmetallic Schedule 40 3-Inch (WisDOT 652.0235)	@	\$5.94 Lin. Ft.	\$0.00
67	0	Pull Boxes Steel 24x42-Inch (WisDOT 653.0140)	@	\$758.11 Each	\$0.00
68	0	Concrete Bases Type 1 (WisDOT 654.0101)	@	\$545.56 Each	\$0.00
69	0	Concrete Bases Type 2 (WisDOT 654.0102)	@	\$832.26 Each	\$0.00
70	0	Concrete Bases Type 10 (WisDOT 654.0110)	@	\$4,438.25 Each	\$0.00
71	0	Concrete Bases Type 13 (WisDOT 654.0113)	@	\$8,144.09 Each	\$0.00
72	0	Cable Traffic Signal 5-14 AWG (WisDOT 655.0230)	@	\$1.06 Lin. Ft.	\$0.00
73	0	Cable Traffic Signal 7-14 AWG (WisDOT 655.0240)	@	\$1.22 Lin. Ft.	\$0.00
74	0	Cable Traffic Signal 12-14 AWG (WisDOT 655.0260)	@	\$1.78 Lin. Ft.	\$0.00
75	0	Cable Traffic Signal 15-14 AWG (WisDOT 655.0270)	@	\$2.14 Lin. Ft.	\$0.00
76	0	Cable Type UF 2-10 AWG (WisDOT 655.0315)	@	\$1.15 Lin. Ft.	\$0.00
77	0	Electrical Wire Traffic Signals 10 AWG (WisDOT 655.0515)	@	\$0.76 Lin. Ft.	\$0.00
78	0	Electrical Wire Lighting 12 AWG	@	\$0.64 Lin. Ft.	\$0.00
79	0	Electrical Service Meter Breaker Pedestal (Signal – E. Moreland Blvd. and White Rock Ave) (WisDOT 656.0200.01)	@	\$1,160.99 Lump Sum	\$0.00
80	0	Pedestal Bases (WisDOT 657.0100)	@	\$227.12 Each	\$0.00
81	0	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle (WisDOT 657.0255)	@	\$380.58 Each	\$0.00
82	0	Poles Type 3 (WisDOT 657.0310)	@	\$2,605.68 Each	\$0.00
83	0	Poles Type 4 (WisDOT 657.0315)	@	\$1,332.78 Each	\$0.00

Item No	Quantity	Description		Cost	Per Unit	Amount
84	0	Traffic Signal Standards Aluminum 13-Foot (WisDOT 657.0420)	@	\$562.62	Each	\$0.00
85	0	Traffic Signal Standards Aluminum 15-Foot (WisDOT 657.0425)	@	\$574.90	Each	\$0.00
86	0	Traffic Signal Standards Aluminum 10-Foot (WisDOT 657.0430)	@	\$390.45	Each	\$0.00
87	0	Trombone Arms 15-FT (WisDOT 657.0585)	@	\$1,321.79	Each	\$0.00
88	0	Luminaire Arms Single Member 4-Inch Clamp 6-Foot (WisDOT 657.0609)	@	\$223.43	Each	\$0.00
89	0	Traffic Signal Face 3-12 Inch Vertical (WisDOT 658.0110)	@	\$440.04	Each	\$0.00
90	0	Traffic Signal Face 4-12 Inch Vertical (WisDOT 658.0115)	@	\$539.54	Each	\$0.00
91	0	Traffic Signal Face 5-12 Inch Vertical (WisDOT 658.0120)	@	\$645.33	Each	\$0.00
92	0	Backplates Signal Face 3 Section 12-Inch (WisDOT 658.0215)	@	\$89.48	Each	\$0.00
93	0	Backplates Signal Face 4 Section 12-Inch (WisDOT 658.0220)	@	\$95.62	Each	\$0.00
94	0	Backplates Signal Face 5 Section 12-Inch (WisDOT 658.0225)	@	\$106.93	Each	\$0.00
95	0	Pedestrian Signal Face 16-Inch (WisDOT 658.0416)	@	\$292.79	Each	\$0.00
96	0	LED Modules 12-Inch Red Ball (WisDOT 658.0600)	@	\$51.56	Each	\$0.00
97	0	LED Modules 12-Inch Yellow Ball (WisDOT 658.0605)	@	\$52.79	Each	\$0.00
98	0	LED Modules 12-Inch Green Ball (WisDOT 658.0610)	@	\$54.02	Each	\$0.00
99	0	LED Modules 12-Inch Red Arrow (WisDOT 658.0615)	@	\$51.56	Each	\$0.00
100	0	LED Modules 12-Inch Yellow Arrow (WisDOT 658.0620)	@	\$52.79	Each	\$0.00
101	0	LED Modules 12-Inch Green Arrow (WisDOT 658.0625)	@	\$54.02	Each	\$0.00
102	0	LED Modules Pedestrian Countdown Timer 16-Inch (WisDOT 658.0635)	@	\$275.23	Each	\$0.00
103	0	Signal Mounting Hardware (E. Moreland Blvd. and White Rock Ave.) WisDOT 658.5069.01	@	\$3,477.74	Lump Sum	\$0.00
104	0	Monotube Poles Type 10, SPV.0060.01	@	\$4,882.32	Each	\$0.00
105	0	Monotube Poles Type 13, SPV.0060.02	@	\$9,840.07	Each	\$0.00
106	0	Monotube Arms 25-FT, SPV.0060.03	@	\$3,372.31	Each	\$0.00
107	0	Monotube Arms 40-FT, SPV.0060.04	@	\$5,764.26	Each	\$0.00
108	0	Luminaire Arm Steel 12-FT, SPV.0060.05	@	\$456.93	Each	\$0.00
109	0	Install LED Luminaire, SPV.0060.06	@	\$183.16	Each	\$0.00
110	0	Traffic Signal Controller and Cabinet 8-Phase Fully Actuated, SPV.0060.07	@	\$15,980.33	Each	\$0.00
111	0	Battery Backup System, E. Moreland Blvd. and White Rock Avenue, SPV.0060.08	@	\$7,106.36	Each	\$0.00
112	0	Video Vehicle Detection System, Intersection of E. Moreland Blvd. and White Rock Avenue, SPV.0105.01	@	\$24,417.94	Lump Sum	\$0.00
113	0	Emergency Vehicle Preemption System, Intersection of E. Moreland Blvd. and White Rock Avenue, SPV.0105.02	@	\$12,170.85	Lump Sum	\$0.00
114	1	Remove Traffic Signals, Intersection of E. Moreland Blvd. and White Rock Avenue, SPV.0105.03	@	\$3,100.88	Lump Sum	\$3,100.88
115	0	Salvage Copper Communications Cable at the E. Moreland Blvd. and White Rock Avenue Traffic Signal, SPV.0105.04	@	\$413.45	Lump Sum	\$0.00
116	0	Audible Pedestrian Push Button System, Intersection of E. Moreland Blvd and White Rock Avenue, SPV.0105.05	@	\$5,866.90	Lump Sum	\$0.00
117	5	Remove Existing Storm Manhole	@	\$550.00	Each	\$2,750.00
118	2	Remove Existing Inlet	@	\$500.00	Each	\$1,000.00
119	110	Remove Existing 12-Inch Storm Sewer	@	\$11.00	Lin. Ft.	\$1,210.00
120	239	Remove Existing 15-Inch Storm Sewer	@	\$12.00	Lin. Ft.	\$2,868.00
121	0	Remove Existing 18-Inch Storm Sewer	@	\$14.00	Lin. Ft.	\$0.00
122	0	Remove Existing 24-Inch Storm Sewer	@	\$16.00	Lin. Ft.	\$0.00
123	565	Remove Existing 30-Inch Storm Sewer	@	\$20.00	Lin. Ft.	\$11,300.00
124	840	Remove Existing 36-Inch Storm Sewer	@	\$30.00	Lin. Ft.	\$25,200.00
125	0	Abandon Existing Storm Manhole	@	\$450.00	Each	\$0.00
126	0	Abandon Existing Inlet	@	\$400.00	Each	\$0.00
127	0	Abandon Existing 12-Inch Storm Sewer	@	\$6.00	Lin. Ft.	\$0.00

Item No	Quantity	Description	Cost	Per Unit	Amount
128	0	Abandon Existing 15-Inch Storm Sewer	@	\$7.00 Lin. Ft.	\$0.00
129	0	Abandon Existing 30-Inch Storm Sewer	@	\$20.00 Lin. Ft.	\$0.00
130	0	Abandon Existing 36-Inch Storm Sewer	@	\$25.00 Lin. Ft.	\$0.00
131	0	12-Inch RCP Storm Sewer, Class III	@	\$68.00 Lin. Ft.	\$0.00
132	13	15-Inch RCP Storm Sewer, Class III	@	\$69.00 Lin. Ft.	\$897.00
133	0	18-inch RCP Storm Sewer, Class III	@	\$73.00 Lin. Ft.	\$0.00
134	13	27-Inch RCP Storm Sewer, Class III	@	\$85.00 Lin. Ft.	\$1,105.00
135	0	36-Inch RCP Storm Sewer, Class III	@	\$115.00 Lin. Ft.	\$0.00
136	0	54-Inch RCP Storm Sewer, Class IV	@	\$190.00 Lin. Ft.	\$0.00
137	2,090	66-Inch RCP Storm Sewer, Class IV	@	\$295.00 Lin. Ft.	\$616,550.00
138	54.5	53x83-inch RCP Horizontal Elliptical Storm Sewer, Class IV	@	\$400.00 Lin. Ft.	\$21,800.00
139	7	48-Inch Diameter Storm Tee Manhole	@	\$3,000.00 Dia.	\$21,000.00
140	0	72-Inch Diameter Storm Manhole	@	\$4,500.00 Dia.	\$0.00
141	0	108-Inch Diameter Storm Manhole	@	\$10,000.00 Dia.	\$0.00
142	3	108-Inch Diameter Storm Manhole, with Reduced Riser	@	\$16,800.00 Dia.	\$50,400.00
143	2	120-Inch Diameter Storm Manhole, with Reduced Riser	@	\$20,000.00 Dia.	\$40,000.00
144	1	54-Inch RCP Storm Sewer 61-Degree Bend	@	\$2,317.00 Each	\$2,317.00
145	0	54-Inch RCP Storm Sewer 66-Degree Bend	@	\$2,317.00 Each	\$0.00
146	1	66-Inch RCP Storm Sewer 54-Degree Bend	@	\$4,091.00 Each	\$4,091.00
147	1	66-Inch RCP Storm Sewer 13-Degree Bend	@	\$4,342.00 Each	\$4,342.00
148	1	66-Inch RCP Storm Sewer 10-Degree Bend	@	\$4,342.00 Each	\$4,342.00
149	0	Inlets 2x3-Ft	@	\$1,500.00 Each	\$0.00
150	0	Inlets 2x3-Ft, with Sump	@	\$1,900.00 Each	\$0.00
151	1	Concrete Collars 30-Inches and Under	@	\$500.00 Each	\$500.00
152	0	Concrete Collars Over 30-Inches	@	\$1,500.00 Each	\$0.00
153	1	54-Inch Apron Endwall	@	\$2,300.00 Each	\$2,300.00
154	0	54-Inch RCP Bore and Jack Under Railroad	@	\$2,000.00 Lin. Ft.	\$0.00
155	0	Removing Bulkheads (Wolf Road to Manhattan Drive)	@	\$1,000.00 Each	\$0.00
156	0	Bulkheads (Wolf Road to Manhattan Drive)	@	\$3,000.00 Each	\$0.00
157	0	Chimney Replacement	@	\$800.00 Each	\$0.00
158	0	Chimney Seals	@	\$400.00 Each	\$0.00
159	0	Main Line Sewer Televising	@	\$1.00 Lin. Ft.	\$0.00
160	0	Lateral Sewer Televising	@	\$125.00 Each	\$0.00
161	0	8-Inch PVC Sanitary Sewer	@	\$85.00 Lin. Ft.	\$0.00
162	0	48-Inch Diameter Sanitary Sewer Drop Manhole	@	\$4,400.00 Dia.	\$0.00
163	435	6-Inch Sanitary Lateral Replacement	@	\$88.80 Lin. Ft.	\$38,628.00
164	12	Sanitary Lateral Abandonment	@	\$800.00 Each	\$9,600.00
165	0	16-Inch DI Water Main and Fittings	@	\$250.00 Lin. Ft.	\$0.00
166	150	16-Inch HDPE Horizontal Direction Drilled Water Main and Fittings	@	\$390.00 Lin. Ft.	\$58,500.00
167	0	12-Inch DI Water Main and Fittings	@	\$170.00 Lin. Ft.	\$0.00
168	0	8-Inch DI Water Main and Fittings	@	\$170.00 Lin. Ft.	\$0.00
169	0	Corrosion Protection	@	\$8,000.00 Lump Sum	\$0.00
170	0	16-Inch Butterfly Valves	@	\$4,550.00 Each	\$0.00
171	0	12-Inch Gate Valves	@	\$2,666.00 Each	\$0.00
172	0	8-Inch Gate Valves	@	\$1,522.00 Each	\$0.00
173	0	Furnish and Install Hydrant Assembly	@	\$6,275.00 Each	\$0.00
174	0	Furnish and Install Hydrant Assembly, WWU Provides Direct Tap	@	\$5,475.00 Each	\$0.00
175	0	WL1 - Connect Existing 3/4-Inch Service Lateral	@	\$4,027.00 Each	\$0.00
176	0	WL2 - Connect Existing 1-Inch Service Lateral	@	\$3,895.00 Each	\$0.00
177	0	WL3 - Connect Existing 1-Inch Service Lateral	@	\$2,250.00 Each	\$0.00
178	0	WL4 - Connect Existing 1 1/4-Inch Service Lateral	@	\$2,760.00 Each	\$0.00

Item No	Quantity	Description		Cost	Per Unit	Amount
179	0	WL6 - Connect Existing 1-Inch Service Lateral	@	\$2,950.00	Each	\$0.00
180	0	WL7 - Connect Existing 2-Inch Service Lateral	@	\$1,745.00	Each	\$0.00
181	0	WL8 - Connect Existing 1 1/4-Inch Service Lateral	@	\$2,855.00	Each	\$0.00
182	0	WL10 - Connect Existing 1-Inch Service Lateral	@	\$1,600.00	Each	\$0.00
183	0	WL11 - Connect Existing 3/4-Inch Service Lateral	@	\$4,180.00	Each	\$0.00
184	0	WL12 - Connect Existing 3/4-Inch Service Lateral	@	\$2,283.00	Each	\$0.00
185	0	Furnish and Install Curb Boxes and Rods (If Required)	@	\$250.00	Each	\$0.00
186	0	Furnish and Install Curb Stop (If Required)	@	\$201.00	Each	\$0.00
187	0	Cap and Abandon Water Service	@	\$800.00	Each	\$0.00
188	0	Remove Existing Hydrant	@	\$500.00	Each	\$0.00
189	0	Abandon Valve Boxes and Manholes	@	\$500.00	Each	\$0.00
190	0	Valve Box Adjustment	@	\$100.00	Each	\$0.00
191	0	Pipe Insulation, 2-Inch Extruded Polystyrene	@	\$20.00	Sq. Yd.	\$0.00
192	0	Loose Rock Excavation	@	\$200.00	Cu. Yd.	\$0.00
193	0	Solid Rock Excavation	@	\$400.00	Cu. Yd.	\$0.00
194	182	Rip Rap Heavy	@	\$85.00	Cu. Yd.	\$15,470.00
195	1	Outfall Grading	@	\$12,000.00	Lump Sum	\$12,000.00
196	0	Slurry Backfill	@	\$100.00	Cu. Yd.	\$0.00
Extra No. 1	1	Traffic Control - Fixed Message Sign	@	\$576.00	Lump Sum	\$576.00
extra No. 2	1	Traffic Control - Extra Detour Sign	@	\$1,250.00	Lump Sum	\$1,250.00
Subtotal						\$1,145,372.73
Less Retainage						\$57,268.64
Subtotal						\$1,088,104.09
Amount Previously Paid						\$818,642.65
Total Amount Due						\$269,461.44

This estimate has been checked by the Engineering Department and we recommend that the above amount of \$269,461.44 be allowed.

Respectfully Submitted,



Fred V. Abadi, PhD., P.E.

Director of Public Works