

**PROJECT UNIT COST ANALYSIS**

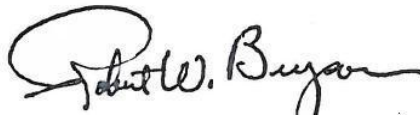
**ESTIMATE OF QUANTITIES**

PROJECT ID 2545-03-91  
 W. HAMPTON AV. - N. TEUTONIA AV. TO N. GREEN BAY AV.  
 LOCAL STREET  
 MILWAUKEE COUNTY

Item No.	Std. Bid Item No.	Description	Unit	Quantity	Excluded Costs	City Unit	City Total
71033	SPV.0060.01	Opticom 711 Detector w/ Selector Card	Each	4	\$ 5,123.52	\$ 1,583.93	\$ 6,335.72
71034	SPV.0060.02	Opticom 721 Detector w/ Selector Card	Each	1	\$ 2,215.25	\$ 2,584.92	\$ 2,584.92
71035	SPV.0060.03	Opticom Confirmation Light Assembly	Each	8	\$ 333.04	\$ 216.41	\$ 1,731.28
71040	SPV.0060.04	Vehicular Microwave Detection System	Each	1	\$ 4,200.00	\$ 6,193.22	\$ 6,193.22
71052	SPV.0060.05	Solid State Controller Installed	Each	3	\$ 28,485.21	\$ 13,377.80	\$ 40,133.40
71057	658.0215	Backplates Signal Face 3 Section 12-inch	Each	18	\$ 648.00	\$ 65.03	\$ 1,170.54
71061	658.0115	Traffic Signal Face 4-12 Inch Vertical	Each	12	\$ 3,867.96	\$ 600.02	\$ 7,200.24
71062	658.0110	Traffic Signal Face 3-12 Inch Vertical	Each	45	\$ 11,183.85	\$ 471.34	\$ 21,210.30
71065	658.0500	Pedestrian Push Buttons	Each	4	\$ 126.72	\$ 139.80	\$ 559.20
71071	SPV.0060.06	Traffic Signal Face 3-8 Inch Vertical	Each	2	\$ 616.85	\$ 451.76	\$ 903.52
71143	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	30	\$ 1.80	\$ 8.41	\$ 252.30
71147	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	40	\$ 0.80	\$ 8.36	\$ 334.40
71154	655.0900	Traffic Signal EVP Detector Cable	LF	1,160	\$ 475.60	\$ 3.21	\$ 3,723.60
71155	652.0900.S	Loop Detector Slots	LF	210	\$ 564.90	\$ 8.43	\$ 1,770.30
71156	SPV.0090.01	Cable Traffic Signal Loop Lead-In	LF	1,295	\$ 388.50	\$ 3.09	\$ 4,001.55
71161	SPV.0090.02	Cable Service 3 #4/1 #8 LTP	LF	525	\$ 1,370.25	\$ 5.04	\$ 2,646.00
71170	655.0250	Cable Traffic Signal 9-14 AWG	LF	475	\$ 365.75	\$ 3.60	\$ 1,710.00
71171	655.0260	Cable Traffic Signal 12-14 AWG	LF	1,015	\$ 984.55	\$ 3.81	\$ 3,867.15
71172	SPV.0090.03	Cable Traffic Signal 17-14 AWG	LF	2,010	\$ 2,974.80	\$ 4.36	\$ 8,763.60
71173	SPV.0090.04	Cable Traffic Signal 20-14 AWG	LF	1,040	\$ 1,476.80	\$ 4.29	\$ 4,461.60
71174	SPV.0090.05	Cable Traffic Signal Interconnect 9-14 AWG	LF	540	\$ 415.80	\$ 6.37	\$ 3,439.80
71175	674.0400	Reinstall Cable	LF	30	\$ -	\$ 2.77	\$ 83.10
71176	674.0300	Remove Cable	LF	3,210	\$ -	\$ 1.06	\$ 3,402.60
71177	SPV.0060.07	Install Secondary Riser	Each	1	\$ 6.50	\$ 112.82	\$ 112.82
71188	SPV.0060.08	Polymer Concrete Vault 13"x24"x18"	Each	1	\$ 224.81	\$ 379.15	\$ 379.15
71189	SPV.0060.09	Polymer Concrete Vault 17"x30"x18"	Each	2	\$ 538.46	\$ 426.74	\$ 853.48
71197	SPV.0060.10	Signal Standard 14'	Each	11	\$ 7,441.83	\$ 1,187.88	\$ 13,066.68
71198	SPV.0060.11	Signal Standard 1' Extension	Each	1	\$ 47.37	\$ 103.71	\$ 103.71
71199	SPV.0060.12	Signal Standard 2' Extension	Each	2	\$ 171.94	\$ 145.03	\$ 290.06
71700	SPV.0060.13	Signal Housing Relocated	Each	15	\$ -	\$ 317.58	\$ 4,763.70
73288	638.2602	Removing Signs Type II	Each	154	\$ -	\$ 6.06	\$ 933.24
73289	638.3000	Removing Small Sign Supports	Each	57	\$ -	\$ 10.10	\$ 575.70
73291	SPV.0060.14	Socket 3' RSP	Each	54	\$ 1,453.14	\$ 49.03	\$ 2,647.62
73292	SPV.0060.15	Socket (Concrete Install)	Each	10	\$ 147.50	\$ 46.11	\$ 461.10
73295	SPV.0060.16	Sign Pipe 2"	Each	64	\$ 1,263.36	\$ 25.19	\$ 1,612.16
73299	637.2220	Signs Type II Reflective SH	SF	906	\$ 5,535.66	\$ 13.57	\$ 12,294.42

**ESTIMATED CONSTRUCTION COST \$ 164,572.18**  
**STATE REVIEW COST \$ 18,000.00**

APPROVED BY:



ROBERT W. BRYSON  
 CHIEF TRAFFIC AND LIGHTING ENGINEER

TRANSPORTATION SECTION  
 TRAFFIC AND LIGHTING DESIGN UNIT

JOSEPH C. BLAKEMAN  
 REVISED: JANUARY 21, 2014

\* Please note that the Total City Cost includes the embedded costs of mobilization, traffic control, mounting hardware, equipment removal, and construction staking electrical installations which are included in the times used for calculating City Unit Costs on the attached worksheets.