

PROJECT UNIT COST ANALYSIS

ESTIMATE OF QUANTITIES

PROJECT ID 2984-08-95
 INSTALL MONOTUBE MAST ARMS - 10 LOCAL INTERSECTIONS
 LOCAL STREETS
 MILWAUKEE COUNTY

Item No.	Std. Bid Item No.	Description	Unit	Quantity	Excluded Costs	City Unit	City Total
71030	204.0155	Removing Concrete Sidewalk	SY	27	\$ -	\$ 6.52	\$ 176.04
71032	602.0410	Concrete Sidewalk 5-Inch	SF	243	\$ 298.89	\$ 7.82	\$ 1,900.26
71033	SPV.0060.01	Opticom 711 Detector w/ Selector Card	Each	12	\$ 11,149.56	\$ 1,207.05	\$ 14,484.60
71034	SPV.0060.02	Opticom 721 Detector w/ Selector Card	Each	3	\$ 2,952.39	\$ 1,265.53	\$ 3,796.59
71035	SPV.0060.03	Opticom Confirmation Light Assembly	Each	32	\$ 1,332.16	\$ 217.29	\$ 6,953.28
71037	SPV.0060.04	Wireless Radio Interconnect System	Each	4	\$ 13,576.40	\$ 4,485.36	\$ 17,941.44
71040	SPV.0060.05	Vehicular Microwave Detection System	Each	4	\$ 16,800.00	\$ 4,904.07	\$ 19,616.28
71052	SPV.0060.06	Solid State Controller Installed	Each	2	\$ 18,990.14	\$ 13,218.24	\$ 26,436.48
71053	SPV.0060.07	ATC Controller Upgrade	Each	8	\$ 24,808.00	\$ 4,167.48	\$ 33,339.84
71056	658.0220	Backplates Signal Face 4 Section 12-inch	Each	1	\$ 55.00	\$ 85.86	\$ 85.86
71057	658.0215	Backplates Signal Face 3 Section 12-inch	Each	58	\$ 2,088.00	\$ 65.67	\$ 3,808.86
71060	658.0120	Traffic Signal Face 5-12 Inch Vertical	Each	1	\$ 392.95	\$ 718.35	\$ 718.35
71061	658.0115	Traffic Signal Face 4-12 Inch Vertical	Each	23	\$ 7,595.29	\$ 603.92	\$ 13,890.16
71062	658.0110	Traffic Signal Face 3-12 Inch Vertical	Each	107	\$ 26,592.71	\$ 469.30	\$ 50,215.10
71064GAL	SPV.0060.08	12" Green Arrow LED Module	Each	2	\$ 74.75	\$ 83.49	\$ 166.98
71064YAL	SPV.0060.09	12" Yellow Arrow LED Module	Each	2	\$ 67.99	\$ 80.11	\$ 160.22
71064RAL	SPV.0060.10	12" Red Arrow LED Module	Each	2	\$ 72.48	\$ 82.36	\$ 164.72
71065	658.0500	Pedestrian Push Buttons	Each	12	\$ 380.16	\$ 143.24	\$ 1,718.88
71066	658.0412	Pedestrian Signal Face 12-Inch	Each	2	\$ 265.62	\$ 298.51	\$ 597.02
71067	SPV.0060.11	Pedestrian Countdown Signal Face 12-Inch	Each	2	\$ 265.62	\$ 298.51	\$ 597.02
71143	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	65	\$ 3.90	\$ 9.54	\$ 620.10
71145	652.0230	Conduit Rigid Nonmetallic Schedule 40 2 1/2-Inch	LF	65	\$ 2.60	\$ 9.52	\$ 618.80
71146	652.0615	Conduit Special 3-Inch	LF	640	\$ 25.60	\$ 17.10	\$ 10,944.00
71147	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	480	\$ 9.60	\$ 9.50	\$ 4,560.00
71154	655.0900	Traffic Signal EVP Detector Cable	LF	2,995	\$ 1,227.95	\$ 3.46	\$ 10,362.70
71156	SPV.0090.01	Cable Traffic Signal Loop Lead-In	LF	120	\$ 36.00	\$ 3.34	\$ 400.80
71161	SPV.0090.02	Cable Service 3 #4/1 #8 LTP	LF	40	\$ 104.40	\$ 5.05	\$ 202.00
71171	655.0260	Cable Traffic Signal 12-14 AWG	LF	2,300	\$ 2,231.00	\$ 4.06	\$ 9,338.00
71172	SPV.0090.03	Cable Traffic Signal 17-14 AWG	LF	4,190	\$ 6,201.20	\$ 4.60	\$ 19,274.00
71173	SPV.0090.04	Cable Traffic Signal 20-14 AWG	LF	730	\$ 1,036.60	\$ 4.53	\$ 3,306.90
71176	674.0300	Remove Cable	LF	335	\$ -	\$ 1.10	\$ 368.50
71177	SPV.0060.12	Install Secondary Riser	Each	1	\$ 6.50	\$ 116.46	\$ 116.46
71178	SPV.0060.13	Remove Secondary Riser	Each	1	\$ -	\$ 109.55	\$ 109.55
71188	SPV.0060.14	Polymer Concrete Vault 13"x24"x18"	Each	3	\$ 674.43	\$ 375.30	\$ 1,125.90
71189	SPV.0060.15	Polymer Concrete Vault 17"x30"x18"	Each	4	\$ 1,076.92	\$ 422.53	\$ 1,690.12
71195	SPV.0060.16	Signal Standard 5'	Each	3	\$ 1,838.79	\$ 1,116.60	\$ 3,349.80
71196	SPV.0060.17	Signal Standard 14'	Each	3	\$ 2,081.28	\$ 1,202.54	\$ 3,607.62
71197	SPV.0060.18	Signal Standard 13'	Each	2	\$ 1,353.06	\$ 1,184.22	\$ 2,368.44
71198	SPV.0060.19	Signal Standard 1' Extension	Each	3	\$ 142.11	\$ 105.15	\$ 315.45
71199	SPV.0060.20	Signal Standard 2' Extension	Each	4	\$ 343.88	\$ 146.19	\$ 584.76
71700	SPV.0060.21	Signal Housing Relocated	Each	26	\$ -	\$ 328.65	\$ 8,544.90
71828	SPV.0060.22	Signal Standard Extension Relocated	Each	1	\$ -	\$ 54.79	\$ 54.79
73296T	SPV.0060.23	Pushbutton Pipe Standard Pipe 2"x5'	Each	2	\$ 39.48	\$ 25.05	\$ 50.10
73299	637.2220	Signs Type II Reflective SH	SF	192	\$ 1,173.12	\$ 13.44	\$ 2,580.48
90005-47	SPV.0060.24	Remove Concrete, Wood, or Aluminum Pole	Each	12	\$ -	\$ 385.52	\$ 4,626.24

TOTAL LFA COST \$ 285,888.39
TOTAL EXCLUDED COSTS \$ 147,366.53
STATE REVIEW COST (15%) \$ 42,883.26
TOTAL PROJECT COST \$ 328,771.65

APPROVED BY:



ROBERT W. BRYSON
 CHIEF TRAFFIC AND LIGHTING ENGINEER

TRANSPORTATION SECTION
 TRAFFIC AND LIGHTING DESIGN UNIT
 JOSEPH C. BLAKEMAN
 REVISED: JUNE 30, 2014 (FINAL)

* 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.