

PROJECT UNIT COST ANALYSIS

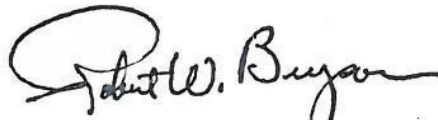
ESTIMATE OF QUANTITIES

PROJECT ID 2984-04-91
 INSTALL MAST ARMS - 3 CONNECTING HIGHWAY LOCATIONS
 VARIOUS HIGHWAYS
 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	3	\$ 2,586.63	\$ 1,115.86	\$ 3,347.57
71034	SPV.0060.02	Opticom 721 Detector w/ Selector Card	Each	1	\$ 896.19	\$ 1,151.99	\$ 1,151.99
71035	SPV.0060.03	Opticom Confirmation Light Assembly	Each	7	\$ 292.25	\$ 206.11	\$ 1,442.77
71052	SPV.0060.04	Solid State Controller Installed	Each	1	\$ 11,727.14	\$ 15,497.73	\$ 15,497.73
71057	658.0215	Backplates Signal Face 3 Section 12-inch	Each	14	\$ 462.00	\$ 59.97	\$ 839.63
71060	658.0120	Traffic Signal Face 5-12 Inch Vertical	Each	1	\$ 406.06	\$ 718.40	\$ 718.40
71061	658.0115	Traffic Signal Face 4-12 Inch Vertical	Each	3	\$ 1,029.93	\$ 604.91	\$ 1,814.74
71062	658.0110	Traffic Signal Face 3-12 Inch Vertical	Each	22	\$ 5,699.76	\$ 468.57	\$ 10,308.53
71154	655.0900	Traffic Signal EVP Detector Cable	LF	350	\$ 143.50	\$ 3.04	\$ 1,063.33
71172	SPV.0090.01	Cable Traffic Signal 17-14 AWG	LF	170	\$ 193.80	\$ 3.81	\$ 648.42
71190	SPV.0060.05	Mast Arm Fabricated	Each	4	\$ 4,900.00	\$ 2,593.02	\$ 10,372.09
71191	SPV.0060.06	Mast Arm Pole	Each	4	\$ 7,331.16	\$ 2,476.33	\$ 9,905.30
71198B	SPV.0060.07	Signal Standard 1' Extension Black	Each	1	\$ 60.60	\$ 162.78	\$ 162.78
71199B	SPV.0060.08	Signal Standard 2' Extension Black	Each	1	\$ 85.97	\$ 189.75	\$ 189.75
71700	SPV.0060.09	Signal Housing Relocated	Each	10	\$ -	\$ 298.61	\$ 2,986.05
73299	637.2220	Signs Type II Reflective SH	SF	60	\$ 366.60	\$ 13.10	\$ 785.94

LFA CONSTRUCTION COST \$ 61,235.02
LFA EXCLUDED COST \$ 36,181.59
STATE REVIEW COST (15%) \$ 9,185.25
TOTAL PROJECT COST \$ 70,420.27

APPROVED BY:



ROBERT W. BRYSON
 CHIEF TRAFFIC AND LIGHTING ENGINEER

TRANSPORTATION SECTION
 TRAFFIC AND LIGHTING DESIGN UNIT
 JOSEPH C. BLAKEMAN
 REVISED: SEPTEMBER 4, 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.