

PROJECT UNIT COST ANALYSIS

ESTIMATE OF QUANTITIES

PROJECT ID 2200-13-90
W. HIGHLAND AVE. - N. 27TH ST. TO N. 12TH ST.
USH 18
MILWAUKEE COUNTY

Item No.	Std. Bid Item No.	Description	Unit	Quantity	Excluded Costs	City Unit	City Total
71022	602.0410	Concrete Sidewalk 5-Inch	SF	20	\$ 24.60	\$ 8.36	\$ 167.12
71032B	SPV.0060.01	Opticom Phase Selector Card 4 Channel	Each	3	\$ 8,253.00	\$ 3,141.66	\$ 9,424.97
71033	SPV.0060.02	Opticom 711 Detector	Each	12	\$ 5,070.24	\$ 705.42	\$ 8,465.07
71035	SPV.0060.03	Opticom Confirmation Light Assembly	Each	12	\$ 501.00	\$ 230.15	\$ 2,761.74
71049	SPV.0060.04	Signal Monitoring and Verification (per Intersection)	Each	4	\$ -	\$ 67.10	\$ 268.41
71050	SPV.0060.05	Controller Timing Change (per intersection)	Each	4	\$ -	\$ 132.21	\$ 528.84
71052	SPV.0060.06	ATC Controller and Cabinet Installed	Each	3	\$ 40,186.74	\$ 15,614.00	\$ 46,842.01
71057	658.0215	Backplates Signal Face 3 Section 12-inch	Each	22	\$ 726.00	\$ 65.67	\$ 1,444.70
71060	658.0120	Traffic Signal Face 5-12 Inch Vertical	Each	1	\$ 280.70	\$ 431.60	\$ 431.60
71061	658.0115	Traffic Signal Face 4-12 Inch Vertical	Each	2	\$ 467.06	\$ 378.01	\$ 756.01
71062	658.0110	Traffic Signal Face 3-12 Inch Vertical	Each	59	\$ 11,077.25	\$ 326.00	\$ 19,234.24
71064R	658.0600	LED Modules 12-Inch Red Ball	Each	41	\$ 1,088.15	\$ 46.35	\$ 1,900.49
71064Y	658.0605	LED Modules 12-Inch Yellow Ball	Each	39	\$ 1,145.82	\$ 49.19	\$ 1,918.55
71064G	658.0610	LED Modules 12-Inch Green Ball	Each	38	\$ 1,090.55	\$ 48.51	\$ 1,843.45
71064RA	658.0615	LED Modules 12-Inch Red Arrow	Each	18	\$ 641.31	\$ 55.44	\$ 997.95
71064YA	658.0620	LED Modules 12-Inch Yellow Arrow	Each	37	\$ 1,113.54	\$ 49.91	\$ 1,846.63
71064GA	658.0625	LED Modules 12-Inch Green Arrow	Each	4	\$ 134.69	\$ 53.49	\$ 213.94
71065	658.0500	Pedestrian Push Buttons	Each	6	\$ 192.00	\$ 149.07	\$ 894.44
71066	658.0412	Pedestrian Signal Face 12-Inch	Each	26	\$ 4,212.26	\$ 350.13	\$ 9,103.46
71066RLC	SPV.0060.07	LED Modules Pedestrian 12-Inch	Each	26	\$ 1,857.90	\$ 91.27	\$ 2,373.04
71067	SPV.0060.08	Pedestrian Countdown Signal Face 12-Inch	Each	26	\$ 4,279.34	\$ 353.06	\$ 9,179.66
71067RL	658.0660	LED Modules Countdown Timer 12-Inch	Each	26	\$ 1,933.81	\$ 94.19	\$ 2,448.95
71101	678.0200	Fiber Optic Splice Enclosure	Each	4	\$ 1,500.00	\$ 538.72	\$ 1,704.00
71102	678.0300	Fiber Optic Splice	Each	4	\$ -	\$ 75.53	\$ 302.10
71103	SPV.0060.09	Fiber Optic Patch Panel	Each	4	\$ 2,400.00	\$ 907.04	\$ 3,628.17
71104	SPV.0060.10	Ethernet Switch	Each	4	\$ 2,797.00	\$ 1,019.79	\$ 4,079.16
71105	SPV.0060.11	Fiber Optic Patch Cords	Each	4	\$ 231.80	\$ 77.10	\$ 308.40
71112	678.0072	Install Fiber Optic Cable Outdoor Plant 72-CT	LF	6,000	\$ 10,500.00	\$ 2.89	\$ 17,338.58
71142	652.0605	Conduit Special 2-Inch	LF	126	\$ 8.82	\$ 8.13	\$ 1,024.86
71154	655.0900	Traffic Signal EVP Detector Cable	LF	2,635	\$ 1,080.35	\$ 3.40	\$ 8,953.02
71161	SPV.0090.01	Cable Service 3 #4/1 #8 LTP	LF	360	\$ 853.20	\$ 5.08	\$ 1,829.29
71170	655.0250	Cable Traffic Signal 9-14 AWG	LF	3,587	\$ 2,259.81	\$ 3.65	\$ 13,083.91
71171	655.0260	Cable Traffic Signal 12-14 AWG	LF	2,535	\$ 2,028.00	\$ 3.84	\$ 9,736.38
71172	SPV.0090.02	Cable Traffic Signal 17-14 AWG	LF	2,500	\$ 2,850.00	\$ 4.23	\$ 10,566.98
71176	674.0300	Remove Cable	LF	1,000	\$ -	\$ 1.13	\$ 1,127.21
71177	SPV.0060.12	Install Secondary Riser	Each	1	\$ 6.18	\$ 119.74	\$ 119.74
71188	SPV.0060.13	Polymer Concrete Vault 13"x24"x18"	Each	1	\$ 224.81	\$ 403.44	\$ 403.44
71195	SPV.0060.14	Signal Standard 5'	Each	5	\$ 2,816.25	\$ 1,135.13	\$ 5,675.65
71197	SPV.0060.15	Signal Standard 13' or 14'	Each	17	\$ 12,040.59	\$ 1,299.87	\$ 22,097.87
71197B	SPV.0060.16	Signal Standard 14' Black	Each	3	\$ 2,124.81	\$ 1,399.91	\$ 4,199.74
71198	SPV.0060.17	Signal Standard 1' Extension	Each	1	\$ 60.60	\$ 125.21	\$ 125.21
71199B	SPV.0060.18	Signal Standard 2' Extension Black	Each	1	\$ 85.97	\$ 204.05	\$ 204.05
71826	SPV.0060.19	Signal Standard Relocated	Each	1	\$ -	\$ 450.89	\$ 450.89
73288	638.2602	Removing Signs Type II	Each	147	\$ -	\$ 6.33	\$ 930.05
73289	638.3000	Removing Small Sign Supports	Each	54	\$ -	\$ 10.54	\$ 569.42
73291	SPV.0060.20	Socket 3' RSP	Each	38	\$ 1,311.38	\$ 60.29	\$ 2,291.14
73292	SPV.0060.21	Socket (Concrete Install)	Each	16	\$ 345.28	\$ 56.15	\$ 898.39
73295	SPV.0060.22	Sign Pipe 2"	Each	54	\$ 2,916.00	\$ 65.56	\$ 3,540.36
73299	637.2220	Signs Type II Reflective SH	SF	810	\$ 4,949.10	\$ 14.08	\$ 11,406.29

LFA CONSTRUCTION COST \$ 249,639.57
LFA EXCLUDED COST \$ 137,665.91
STATE REVIEW COST (8%) \$ 19,971.17
TOTAL PROJECT COST \$ 269,610.74

PROJECT UNIT COST ANALYSIS

ESTIMATE OF QUANTITIES

PROJECT ID 2200-13-90
W. HIGHLAND AVE. - N. 27TH ST. TO N. 12TH ST.
USH 18
MILWAUKEE COUNTY

APPROVED BY:



JOSEPH C. BLAKEMAN, PE
TRAFFIC ENGINEER SENIOR

TRANSPORTATION SECTION
TRAFFIC AND LIGHTING DESIGN UNIT
KYLE A. PFEIFFER
REVISED: DECEMBER 22, 2016

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