

**PROJECT UNIT COST ANALYSIS**

**ESTIMATE OF QUANTITIES**

PROJECT ID 2070-03-91  
W. LAYTON AVE. - S. 27TH ST. TO S. HOWELL AVE.  
LOCAL STREET  
MILWAUKEE COUNTY

Item No.	Std. Bid Item No.	Description	Unit	Quantity	Excluded Costs	City Unit	City Total
71032B	SPV.0060.221	EVP Phase Selector Card 4 Channel	Each	2	\$ 5,502.00	\$ 3,229.61	\$ 6,459.21
71033	SPV.0060.218	EVP 1 Channel 1 Direction Infrared Detector	Each	6	\$ 2,668.32	\$ 754.64	\$ 4,527.86
71035	SPV.0060.223	EVP Confirmation Light Assembly	Each	6	\$ 253.14	\$ 238.23	\$ 1,429.35
71039	SPV.0060.224	Vehicular Video Detection System	Each	12	\$ 80,283.72	\$ 8,048.25	\$ 96,578.97
71040	SPV.0060.225	Vehicular Microwave Detection System	Each	1	\$ 4,189.60	\$ 5,127.90	\$ 5,127.90
71052	SPV.0060.205	ATC Controller and Cabinet Installed	Each	2	\$ 25,991.16	\$ 15,583.83	\$ 31,167.66
71061	658.0174	Traffic Signal Face 4S 12-Inch	Each	4	\$ 1,370.88	\$ 599.43	\$ 2,397.72
71062	658.0173	Traffic Signal Face 3S 12-Inch	Each	29	\$ 7,318.44	\$ 493.91	\$ 14,323.27
71065	658.0500	Pedestrian Push Buttons	Each	8	\$ 256.00	\$ 155.02	\$ 1,240.18
71066	658.0412	Pedestrian Signal Face 12-Inch	Each	12	\$ 1,639.32	\$ 331.55	\$ 3,978.61
71067	SPV.0060.267	Pedestrian Countdown Signal Face 12-Inch	Each	12	\$ 1,633.20	\$ 330.96	\$ 3,971.46
71103	SPV.0060.212	Fiber Optic Patch Panel	Each	4	\$ 2,400.00	\$ 935.99	\$ 3,743.94
71104	SPV.0060.213	Ethernet Switch	Each	4	\$ 2,797.00	\$ 1,051.89	\$ 4,207.56
71112	678.0072	Install Fiber Optic Cable Outdoor Plant 72-CT	LF	8,590	\$ 15,032.50	\$ 2.98	\$ 25,639.96
71143	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	115	\$ 6.90	\$ 8.86	\$ 1,018.46
71154	655.0900	Traffic Signal EVP Detector Cable	LF	2,900	\$ 1,305.00	\$ 3.51	\$ 10,182.03
71156	655.0700	Loop Detector Lead In Cable	LF	25	\$ 4.00	\$ 3.20	\$ 79.89
71161	SPV.0090.307	Cable Service 3 #4/1 #8 LTP	LF	670	\$ 1,132.30	\$ 4.41	\$ 2,951.67
71170	655.0250	Cable Traffic Signal 9-14 AWG	LF	3,070	\$ 1,412.20	\$ 3.52	\$ 10,814.78
71171	655.0260	Cable Traffic Signal 12-14 AWG	LF	1,320	\$ 1,108.80	\$ 3.97	\$ 5,235.76
71172	SPV.0090.211	Cable Traffic Signal 17-14 AWG	LF	3,595	\$ 4,242.10	\$ 4.36	\$ 15,687.53
71177	SPV.0060.216	Install Secondary Riser	Each	1	\$ 6.64	\$ 125.41	\$ 125.41
71178	SPV.0060.217	Remove Secondary Riser	Each	1	\$ -	\$ 117.66	\$ 117.66
71201	657.0100	Pedestal Base	Each	17	\$ 3,315.00	\$ 239.49	\$ 4,071.26
71203B	657.0430	Traffic Signal Standards Aluminum 10-FT	Each	6	\$ 1,740.00	\$ 350.43	\$ 2,102.56
71205	657.0420	Traffic Signal Standards Aluminum 13-FT	Each	5	\$ 1,625.00	\$ 391.30	\$ 1,956.51
71206	657.0425	Traffic Signal Standards Aluminum 15-FT	Each	6	\$ 2,310.00	\$ 461.37	\$ 2,768.21
71700	SPV.0060.277	Signal Housing Relocated	Each	34	\$ -	\$ 352.95	\$ 12,000.45
73288	638.2602	Removing Signs Type II	Each	726	\$ -	\$ 6.54	\$ 4,746.72
73289	638.3000	Removing Small Sign Supports	Each	104	\$ -	\$ 10.90	\$ 1,133.29
73291	SPV.0060.282	Socket 3' RSP	Each	69	\$ 2,520.57	\$ 64.45	\$ 4,447.30
73292	SPV.0060.283	Socket (Concrete Install)	Each	35	\$ 756.70	\$ 57.94	\$ 2,027.85
73295	SPV.0060.284	Sign Pipe 2"	Each	104	\$ 5,616.00	\$ 67.42	\$ 7,011.66
73299	637.2220	Signs Type II Reflective SH	SF	726	\$ 4,486.68	\$ 14.56	\$ 10,570.17

**LFA CONSTRUCTION COST \$ 303,842.82**  
**STATE REVIEW COST (8%) \$ 24,307.43**  
**TOTAL PROJECT COST \$ 328,150.25**

APPROVED BY:



JOSEPH C. BLAKEMAN, PE  
TRAFFIC ENGINEER SENIOR

TRANSPORTATION SECTION  
TRAFFIC AND LIGHTING DESIGN UNIT  
SCOTT REINBACHER

REVISED: DECEMBER 27, 2018

\* 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.