

PROJECT UNIT COST ANALYSIS

ESTIMATE OF QUANTITIES

PROJECT ID 1228-25-96

IH 43 - WEST HOWARD AVENUE TO THE VALLEY BRIDGE

IH 43/94

MILWAUKEE COUNTY

Item No.	Std. Bid Item No.	Description	Unit	Quantity	Excluded Costs	City Unit	City Total
71030	204.0155	Removing Concrete Sidewalk	SY	13	\$ -	\$ 6.33	\$ 82.30
71032	602.0410	Concrete Sidewalk 5-Inch	SF	118	\$ 145.14	\$ 7.64	\$ 901.19
71033	SPV.0060.01	Opticom 711 Detector w/ Selector Card	Each	16	\$ 19,087.04	\$ 1,472.70	\$ 23,563.13
71034	SPV.0060.02	Opticom 721 Detector w/ Selector Card	Each	6	\$ 7,487.64	\$ 1,531.18	\$ 9,187.07
71035	SPV.0060.03	Opticom Confirmation Light Assembly	Each	28	\$ 1,165.64	\$ 209.86	\$ 5,875.97
71037	SPV.0060.04	Wireless Radio Interconnect Unit	Each	2	\$ 3,440.60	\$ 2,646.17	\$ 5,292.33
71040	SPV.0060.05	Vehicular Microwave Detection System	Each	2	\$ 8,400.00	\$ 6,099.80	\$ 12,199.60
71053	SPV.0060.06	ATC Controller Upgrade	Each	10	\$ 31,010.00	\$ 4,149.24	\$ 41,492.42
71057	658.0215	Backplates Signal Face 3 Section 12-inch	Each	53	\$ 1,908.00	\$ 63.81	\$ 3,381.88
71061	658.0115	Traffic Signal Face 4-12 Inch Vertical	Each	12	\$ 3,867.96	\$ 588.09	\$ 7,057.10
71062	658.0110	Traffic Signal Face 3-12 Inch Vertical	Each	92	\$ 22,864.76	\$ 461.87	\$ 42,492.46
71065	658.0500	Pedestrian Push Buttons	Each	23	\$ 728.64	\$ 135.81	\$ 3,123.55
71081	658.1110	Programmable Traffic Signal Face 3-12 Vertical	Each	12	\$ 12,495.96	\$ 1,403.67	\$ 16,843.98
71143	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	695	\$ 41.70	\$ 8.14	\$ 5,656.80
71146	652.0615	Conduit Special 3-Inch	LF	90	\$ 3.60	\$ 14.58	\$ 1,312.06
71147	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	295	\$ 11.80	\$ 8.12	\$ 2,394.82
71154	655.0900	Traffic Signal EVP Detector Cable	LF	3,095	\$ 1,268.95	\$ 3.11	\$ 9,640.63
71156	SPV.0090.01	Cable Traffic Signal Loop Lead-In	LF	150	\$ 45.00	\$ 3.00	\$ 449.69
71157	655.0410	Communication Cable Installed in Conduit	LF	580	\$ 326.60	\$ 2.87	\$ 1,663.97
71161	SPV.0090.02	Cable Service 3 #4/1 #8 LTP	LF	2,155	\$ 5,624.55	\$ 4.94	\$ 10,645.80
71170	655.0250	Cable Traffic Signal 9-14 AWG	LF	290	\$ 223.30	\$ 3.50	\$ 1,014.27
71171	655.0260	Cable Traffic Signal 12-14 AWG	LF	3,290	\$ 3,191.30	\$ 3.71	\$ 12,206.50
71172	SPV.0090.03	Cable Traffic Signal 17-14 AWG	LF	6,500	\$ 9,620.00	\$ 4.25	\$ 27,641.06
71174	SPV.0090.04	Cable Traffic Signal Interconnect 9-14 AWG	LF	2,450	\$ 1,886.50	\$ 6.18	\$ 15,131.98
71176	674.0300	Remove Cable	LF	4,110	\$ -	\$ 1.02	\$ 4,197.20
71177	SPV.0060.07	Install Secondary Riser	Each	2	\$ 13.00	\$ 109.03	\$ 218.06
71178	SPV.0060.08	Remove Secondary Riser	Each	2	\$ -	\$ 102.12	\$ 204.24
71188	SPV.0060.09	Polymer Concrete Vault 13"x24"x18"	Each	9	\$ 2,023.29	\$ 372.28	\$ 3,350.51
71189	SPV.0060.10	Polymer Concrete Vault 17"x30"x18"	Each	8	\$ 2,153.84	\$ 419.51	\$ 3,356.09
71190	SPV.0060.11	Mast Arm Fabricated	Each	8	\$ 472.40	\$ 1,380.50	\$ 11,044.03
71191	SPV.0060.12	Mast Arm Pole	Each	8	\$ 13,016.88	\$ 2,271.28	\$ 18,170.27
71195	SPV.0060.13	Signal Standard 5'	Each	5	\$ 2,654.40	\$ 1,010.77	\$ 5,053.87
71197	SPV.0060.14	Signal Standard 13'-14'	Each	30	\$ 20,295.90	\$ 1,165.64	\$ 34,969.20
71198	SPV.0060.15	Signal Standard 1' Extension	Each	18	\$ 852.66	\$ 101.43	\$ 1,825.72
71199	SPV.0060.16	Signal Standard 2' Extension	Each	1	\$ 85.97	\$ 142.49	\$ 142.49
71700	SPV.0060.17	Signal Housing Relocated	Each	53	\$ -	\$ 306.36	\$ 16,237.28
71826	SPV.0060.18	Signal Standard Relocated	Each	2	\$ -	\$ 408.49	\$ 816.97
71828	SPV.0060.19	Signal Standard Extension Relocated	Each	1	\$ -	\$ 51.08	\$ 51.08
90005-71	SPV.0060.20	Remove Concrete, Wood, or Aluminum Pole	Each	30	\$ -	\$ 366.08	\$ 10,982.39

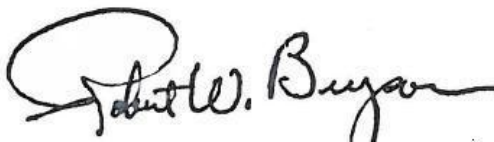
LFA CONSTRUCTION COST \$ 369,869.96

LFA EXCLUDED COST \$ 176,413.02

STATE REVIEW COST (8%) \$ 29,589.60

TOTAL PROJECT COST \$ 399,459.56

APPROVED BY:



ROBERT W. BRYSON
CHIEF TRAFFIC AND LIGHTING ENGINEER

TRANSPORTATION SECTION
TRAFFIC AND LIGHTING DESIGN UNIT

JOSEPH C. BLAKEMAN
REVISED: APRIL 24, 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.