



**CITY OF SOLON  
CITY WIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT, CONTRACT 2010.20  
BID TABULATION**

ITEM NO.	DESCRIPTION	QTY	UNIT	PERRAM ELECTRIC		MILLER CABLE		RAUHORN ELECTRIC		ZENITH SYSTEMS		TERRACE CONSTRUCTION		THOMPSON ELECTRIC	
				TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST
1	CURB RAMP, TYPE A1, AS PER PLAN	60	EACH	950.00	57,000.00	850.00	51,000.00	656.00	39,360.00	2,711.50	162,690.00	1,300.00	78,000.00	677.25	40,635.00
2	4"CONCRETE SIDEWALK, AS PER PLAN	3,350	SQ FT	6.00	20,100.00	8.20	27,470.00	8.74	29,279.00	8.51	28,508.50	12.00	40,200.00	5.93	19,865.50
3	MAINTAINING TRAFFIC, AS PER PLAN	1	LUMP	15,000.00	15,000.00	234,611.00	234,611.00	247,724.00	247,724.00	203,500.00	203,500.00	136,530.00	136,530.00	416,580.00	416,580.00
4	CONDUIT, 2", 725.04	1,918	FT	13.28	25,471.04	7.00	13,426.00	24.76	47,489.68	5.73	10,990.14	11.00	21,098.00	6.48	12,428.64
5	CONDUIT, 3", 725.04	4,642	FT	15.55	72,183.10	15.00	69,630.00	34.39	159,638.38	10.52	48,833.84	16.50	76,593.00	10.74	49,855.08
6	CONDUIT, 4", 725.04	1,057	FT	24.05	25,420.85	20.00	21,140.00	44.51	47,047.07	13.57	14,343.49	18.00	19,026.00	14.52	15,347.64
7	CONDUIT, JACKED OR DRILLED, 3"	5,735	FT	27.65	158,572.75	22.00	126,170.00	43.74	250,848.90	25.15	144,235.25	31.00	177,785.00	40.24	230,776.40
8	CONDUIT, JACKED OR DRILLED, 4"	316	FT	31.65	10,001.40	32.00	10,112.00	47.16	14,902.56	33.19	10,488.04	37.00	11,692.00	48.32	15,269.12
9	TRENCH	5,529	FT	6.28	34,722.12	9.15	50,590.35	5.56	30,741.24	5.51	30,464.79	6.00	33,174.00	6.08	33,616.32
10	TRENCH IN PAVED AREA, TYPE A	1,330	FT	43.25	57,522.50	13.00	17,290.00	15.39	20,468.70	35.10	46,683.00	7.75	10,307.50	41.50	55,195.00
11	PULL BOX, 725.07, 18" x 18"	46	EACH	585.00	26,910.00	505.00	23,230.00	756.01	34,776.46	521.55	23,991.30	530.00	24,380.00	686.00	31,556.00
12	PULL BOX, 725.07, 24" x 24"	54	EACH	635.00	34,290.00	690.00	37,260.00	842.00	45,468.00	615.15	33,218.10	660.00	35,640.00	852.00	46,008.00
13	GROUND ROD	113	EACH	182.00	20,566.00	155.00	17,515.00	150.00	16,950.00	134.35	15,181.55	110.00	12,430.00	118.00	13,334.00
14	PLASTIC CAUTION TAPE	6,859	FT	0.05	342.95	0.15	1,028.85	0.32	2,194.88	0.13	891.67	0.24	1,646.16	0.33	2,263.47
15	GROUND MOUNTED SUPPORT, NO. 3 POST	256	FT	13.35	3,417.60	7.50	1,920.00	8.20	2,099.20	8.25	2,112.00	9.25	2,368.00	7.65	1,958.40
16	OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 9, AS PER PLAN	1	EACH	6,860.00	6,860.00	7,675.00	7,675.00	8,676.00	8,676.00	7,447.74	7,447.74	6,670.00	6,670.00	7,770.40	7,770.40
17	OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 11, AS PER PLAN	3	EACH	8,860.00	26,580.00	9,915.00	29,745.00	10,868.00	32,604.00	9,855.40	29,566.20	9,120.00	27,360.00	10,308.00	30,924.00
18	OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 13, AS PER PLAN	1	EACH	10,295.00	10,295.00	11,465.00	11,465.00	12,282.00	12,282.00	11,381.00	11,381.00	10,330.00	10,330.00	11,872.80	11,872.80
19	SIGN HANGER ASSEMBLY, MAST ARM	51	EACH	572.00	29,172.00	350.00	17,850.00	743.00	37,893.00	748.00	38,148.00	830.00	42,330.00	1,045.83	53,337.33
20	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN	110	EACH	637.00	70,070.00	390.00	42,900.00	760.00	83,600.00	764.50	84,095.00	850.00	93,500.00	1,045.83	115,041.30
21	SIGN POST REFLECTOR	6	EACH	118.00	708.00	50.00	300.00	49.16	294.96	49.50	297.00	66.00	396.00	40.43	242.58
22	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	2	EACH	106.00	212.00	145.00	290.00	186.00	372.00	187.00	374.00	210.00	420.00	33.00	66.00
23	SIGN, FLAT SHEET	766	SQ FT	17.75	13,596.50	14.30	10,953.80	15.85	12,141.10	15.95	12,217.70	17.50	13,405.00	14.96	11,459.36
24	SIGN, FLAT SHEET, AS PER PLAN	1,563	SQ FT	18.20	28,446.60	14.40	22,507.20	17.48	27,321.24	17.60	27,508.80	19.50	30,478.50	13.31	20,803.53
25	SIGN, FLAT SHEET, AS PER PLAN NO.1	25	SQ FT	21.10	527.50	39.00	975.00	19.67	491.75	19.80	495.00	22.00	550.00	36.58	914.50
26	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	5	EACH	4,120.00	20,600.00	5,325.00	26,625.00	3,551.00	17,755.00	3,575.00	17,875.00	3,970.00	19,850.00	2,170.00	10,850.00
27	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	4	EACH	33.00	132.00	10.00	40.00	16.39	65.56	16.50	66.00	18.50	74.00	13.20	52.80
28	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	2	EACH	5.00	10.00	15.00	30.00	16.39	32.78	16.50	33.00	18.50	37.00	38.50	77.00
29	REMOVAL OF OVERHEAD MOUNTED SIGN AND STORAGE, AS PER PLAN	17	EACH	70.00	1,190.00	40.00	680.00	38.23	649.91	38.50	654.50	43.00	731.00	93.50	1,589.50
30	REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION	2	EACH	132.00	264.00	10.00	20.00	164.00	328.00	165.00	330.00	180.00	360.00	176.00	352.00
31	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	1	EACH	132.00	132.00	40.00	40.00	43.70	43.70	44.00	44.00	49.00	49.00	60.50	60.50
32	SIGN FLASHER ASSEMBLY	1	EACH	1,090.00	1,090.00	1,945.00	1,945.00	2,480.00	2,480.00	935.20	935.20	1,100.00	1,100.00	1,232.00	1,232.00
33	REMOVAL.: MISC REMOVAL OF SIGN FLASHER ASSEMBLY	1	EACH	132.00	132.00	535.00	535.00	520.00	520.00	291.70	291.70	100.00	100.00	590.00	590.00
34	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-17.10	5	EACH	1,320.00	6,600.00	875.00	4,375.00	1,066.00	5,330.00	1,072.50	5,362.50	870.00	4,350.00	2,142.00	10,710.00
35	VEHICULAR SIGNAL HEAD, (LED), BLACK, 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE, AS PER PLAN	187	EACH	603.45	112,845.15	925.00	172,975.00	554.00	103,598.00	631.40	118,071.80	730.00	136,510.00	734.80	137,407.60
36	VEHICULAR SIGNAL HEAD, (LED), BLACK, 4-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE, AS PER PLAN	8	EACH	775.00	6,200.00	1,085.00	8,680.00	655.00	5,240.00	833.61	6,668.88	900.00	7,200.00	917.21	7,337.68



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				TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST
37	VEHICULAR SIGNAL HEAD, (LED), BLACK, 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, WITH BACKPLATE, AS PER PLAN	89	EACH	1,020.00	90,780.00	1,280.00	113,920.00	911.99	81,167.11	1,070.88	95,308.32	1,180.00	105,020.00	1,178.00	104,842.00
38	PEDESTRIAN SIGNAL HEAD (LED) , (COUNTDOWN), TYPE D2, AS PER PLAN	181	EACH	367.00	66,427.00	520.00	94,120.00	419.03	75,844.43	329.70	59,675.70	340.00	61,540.00	392.00	70,952.00
39	COVERING OF VEHICULAR SIGNAL HEAD	284	EACH	5.00	1,420.00	28.00	7,952.00	18.40	5,225.60	12.84	3,646.56	33.00	9,372.00	41.00	11,644.00
40	COVERING OF PEDESTRIAN SIGNAL HEAD	181	EACH	5.00	905.00	22.00	3,982.00	18.40	3,330.40	12.55	2,271.55	13.00	2,353.00	41.00	7,421.00
41	PEDESTRIAN PUSHBUTTON, AS PER PLAN	175	EACH	227.00	39,725.00	190.00	33,250.00	209.01	36,576.75	197.49	34,560.75	200.00	35,000.00	219.00	38,325.00
42	MESSENGER WIRE, 7 STRAND, 1/4" DIAMETER WITH ACCESSORIES	97,920	FT	1.37	134,150.40	0.85	83,232.00	3.18	311,385.60	3.81	373,075.20	4.70	460,224.00	3.95	386,784.00
43	SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG	15,232	FT	1.42	21,629.44	1.27	19,344.64	1.88	28,636.16	1.31	19,953.92	0.85	12,947.20	1.60	24,371.20
44	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	36,136	FT	1.62	58,540.32	1.34	48,422.24	2.00	72,272.00	1.52	54,926.72	1.10	39,749.60	1.92	69,381.12
45	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	14,000	FT	1.83	25,620.00	1.54	21,560.00	2.34	32,760.00	2.04	28,560.00	1.30	18,200.00	2.32	32,480.00
46	SIGNAL SUPPORT FOUNDATION	53	EACH	4,435.00	235,055.00	4,650.00	246,450.00	2,429.00	128,737.00	2,411.00	127,783.00	2,730.00	144,690.00	2,220.00	117,660.00
47	PEDESTAL FOUNDATION	37	EACH	585.00	21,645.00	605.00	22,385.00	767.00	28,379.00	565.40	20,919.80	400.00	14,800.00	502.00	18,574.00
48	LOOP DETECTOR LEAD-IN CABLE	188	FT	1.80	338.40	2.26	424.88	0.99	186.12	1.69	317.72	0.85	159.80	2.04	383.52
49	POWER CABLE, 2 CONDUCTOR, NO. 8 AWG	360	FT	3.00	1,080.00	3.90	1,404.00	2.98	1,072.80	2.23	802.80	2.90	1,044.00	3.25	1,170.00
50	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG	1,787	FT	4.40	7,862.80	4.90	8,756.30	2.98	5,325.26	2.69	4,807.03	3.00	5,361.00	4.52	8,077.24
51	POWER SERVICE, AS PER PLAN	18	EACH	1,210.00	21,780.00	2,900.00	52,200.00	1,666.00	29,988.00	1,313.50	23,643.00	1,450.00	26,100.00	1,620.00	29,160.00
52	POWER SERVICE, AS PER PLAN NO.1	14	EACH	1,390.00	19,460.00	2,900.00	40,600.00	1,666.00	23,324.00	1,313.50	18,389.00	1,450.00	20,300.00	1,620.00	22,680.00
53	CONDUIT RISER, 2" DIAMETER	16	EACH	430.00	6,880.00	520.00	8,320.00	488.91	7,822.56	700.50	11,208.00	230.00	3,680.00	372.00	5,952.00
54	CONDUIT RISER, 3" DIAMETER	24	EACH	600.00	14,400.00	1,030.00	24,720.00	489.01	11,736.24	729.75	17,514.00	450.00	10,800.00	502.00	12,048.00
55	CONDUIT RISER, 4" DIAMETER	1	EACH	810.00	810.00	1,385.00	1,385.00	606.00	606.00	759.00	759.00	660.00	660.00	770.00	770.00
56	SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 4 POLE, WITH MAST ARMS TC-81.21 DESIGN 3 AND DESIGN 2, AS PER PLAN	1	EACH	5,590.00	5,590.00	6,985.00	6,985.00	6,638.00	6,638.00	7,919.05	7,919.05	5,250.00	5,250.00	6,393.70	6,393.70
57	SIGNAL SUPPORT, TYPE TC-12.30 DESIGN 6 POLE, WITH MAST ARMS TC-81.21 DESIGN 12 AND DESIGN 11, AS PER PLAN	1	EACH	12,380.00	12,380.00	12,350.00	12,350.00	14,054.01	14,054.01	13,184.82	13,184.82	13,010.00	13,010.00	14,003.80	14,003.80
58	SIGNAL SUPPORT, TYPE TC-12.30 DESIGN 7 POLE, WITH MAST ARMS TC-81.21 DESIGN 13 AND DESIGN 3, AS PER PLAN NO. 1	1	EACH	13,330.00	13,330.00	15,250.00	15,250.00	15,088.00	15,088.00	18,529.35	18,529.35	13,010.00	13,010.00	15,465.50	15,465.50
59	SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 3 POLE, WITH MAST ARMS TC-81.21 DESIGN 1 AND DESIGN 1, AS PER PLAN	0	EACH	4,750.00	-	6,450.00	-	5,891.00	-	6,406.24	-	-	-	-	-
60	SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 3 POLE, WITH MAST ARMS TC-81.21 DESIGN 2 AND DESIGN 1, AS PER PLAN	1	EACH	4,905.00	4,905.00	6,115.00	6,115.00	5,891.00	5,891.00	6,480.15	6,480.15	4,600.00	4,600.00	6,131.30	6,131.30
61	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 1, AS PER PLAN	6	EACH	3,380.00	20,280.00	3,925.00	23,550.00	3,881.01	23,286.06	4,465.61	26,793.66	2,900.00	17,400.00	4,106.80	24,640.80
62	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2, AS PER PLAN	3	EACH	3,665.00	10,995.00	4,260.00	12,780.00	4,194.00	12,582.00	4,845.86	14,537.58	3,200.00	9,600.00	4,422.50	13,267.50
63	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 3, AS PER PLAN	5	EACH	4,065.00	20,325.00	4,725.00	23,625.00	4,624.00	23,120.00	5,174.63	25,873.15	3,500.00	17,500.00	4,857.00	24,285.00
64	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 3, AS PER PLAN NO.1	1	EACH	5,420.00	5,420.00	6,475.00	6,475.00	5,963.00	5,963.00	9,095.30	9,095.30	5,250.00	5,250.00	6,204.50	6,204.50
65	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 4, AS PER PLAN	4	EACH	5,110.00	20,440.00	6,380.00	25,520.00	5,770.02	23,080.08	7,118.00	28,472.00	4,700.00	18,800.00	6,009.80	24,039.20
66	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN	10	EACH	6,330.00	63,300.00	7,405.00	74,050.00	7,100.00	71,000.00	8,465.04	84,650.40	6,200.00	62,000.00	7,629.60	76,296.00
67	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN NO.1	5	EACH	7,610.00	38,050.00	9,070.00	45,350.00	8,354.00	41,770.00	9,556.08	47,780.40	7,710.00	38,550.00	8,893.50	44,467.50



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				TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST
68	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 12, AS PER PLAN	8	EACH	7,580.00	60,640.00	8,250.00	66,000.00	8,469.00	67,752.00	9,018.45	72,147.60	7,320.00	58,560.00	9,009.00	72,072.00
69	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 12, AS PER PLAN NO.1	1	EACH	9,275.00	9,275.00	9,550.00	9,550.00	10,171.99	10,171.99	9,790.08	9,790.08	9,300.00	9,300.00	10,725.00	10,725.00
70	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN	3	EACH	8,705.00	26,115.00	10,200.00	30,600.00	9,693.00	29,079.00	10,818.31	32,454.93	8,810.00	26,430.00	10,242.10	30,726.30
71	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN NO.1	3	EACH	10,270.00	30,810.00	11,075.00	33,225.00	11,258.01	33,774.03	11,526.16	34,578.48	10,430.00	31,290.00	11,678.40	35,035.20
72	PEDESTAL, 8', AS PER PLAN	37	EACH	761.00	28,157.00	635.00	23,495.00	573.01	21,201.37	537.90	19,902.30	460.00	17,020.00	648.00	23,976.00
73	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	37	EACH	750.00	27,750.00	1,370.00	50,690.00	3,131.00	115,847.00	1,900.00	70,300.00	1,830.00	67,710.00	3,584.00	132,608.00
74	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	67	EACH	132.00	8,844.00	165.00	11,055.00	519.00	34,773.00	756.50	50,685.50	340.00	22,780.00	710.00	47,570.00
75	SIGNALIZATION, MISC.: INCIDENT MANAGEMENT CAMERA	6	EACH	4,160.00	24,960.00	5,215.00	31,290.00	4,607.00	27,642.00	4,332.50	25,995.00	4,700.00	28,200.00	4,620.00	27,720.00
76	SIGNALIZATION, MISC.: RADAR BASED DETECTOR	5	EACH	4,590.00	22,950.00	5,385.00	26,925.00	4,588.00	22,940.00	5,529.95	27,649.75	5,070.00	25,350.00	5,202.00	26,010.00
77	VEHICULAR SIGNAL HEAD, MISC: BACKPLATE FOR 3-SETION HEAD	29	EACH	168.00	4,872.00	448.00	12,992.00	122.00	3,538.00	184.31	5,344.99	200.00	5,800.00	181.60	5,266.40
78	VEHICULAR SIGNAL HEAD, MISC: BACKPLATE FOR 5-SETION HEAD	9	EACH	300.00	2,700.00	665.00	5,985.00	236.00	2,124.00	2,204.44	19,839.96	360.00	3,240.00	307.60	2,768.40
79	CONTROLLER UNIT, TYPE TS2/A1, WITH CABINET, TYPE TS2, AS PER PLAN	17	EACH	15,540.00	264,180.00	18,650.00	317,050.00	16,785.00	285,345.00	18,476.95	314,108.15	17,320.00	294,440.00	17,158.50	291,694.50
80	CONTROLLER UNIT, TYPE TS2/A1, WITHOUT CABINET, TYPE TS1, AS PER PLAN	2	EACH	8,640.00	17,280.00	9,945.00	19,890.00	9,831.01	19,662.02	10,592.75	21,185.50	9,390.00	18,780.00	10,272.50	20,545.00
81	CABINET WITHOUT CONTROLLER, AS PER PLAN	10	EACH	7,240.00	72,400.00	8,065.00	80,650.00	7,532.01	75,320.10	7,756.50	77,565.00	7,190.00	71,900.00	8,064.00	80,640.00
82	CABINET RISER	17	EACH	800.00	13,600.00	1,020.00	17,340.00	996.00	16,932.00	1,029.40	17,499.80	9,860.00	167,620.00	1,100.00	18,700.00
83	CABINET FOUNDATION	18	EACH	1,640.00	29,520.00	2,395.00	43,110.00	1,240.00	22,320.00	1,038.35	18,690.30	920.00	16,560.00	1,320.00	23,760.00
84	CABINET FOUNDATION, AS PER PLAN	5	EACH	1,640.00	8,200.00	2,695.00	13,475.00	1,240.00	6,200.00	1,038.35	5,191.75	920.00	4,600.00	1,430.00	7,150.00
85	CONTROLLER WORK PAD	9	EACH	50.00	450.00	400.00	3,600.00	445.00	4,005.00	280.40	2,523.60	150.00	1,350.00	502.00	4,518.00
86	PREEMPTION	33	EACH	35.00	1,155.00	42.00	1,386.00	222.00	7,326.00	81.70	2,696.10	37.00	1,221.00	82.00	2,706.00
87	PREEMPTION RECEIVING UNIT	120	EACH	337.00	40,440.00	580.00	69,600.00	482.00	57,840.00	508.45	61,014.00	590.00	70,800.00	284.00	34,080.00
88	PREEMPTION DETECTOR CABLE	23,685	FT	1.26	29,843.10	1.56	36,948.60	1.28	30,316.80	1.60	37,896.00	1.10	26,053.50	1.59	37,659.15
89	PREEMPTION PHASE SELECTOR	33	EACH	960.00	31,680.00	2,395.00	79,035.00	1,322.00	43,626.00	2,609.00	86,097.00	2,690.00	88,770.00	2,675.00	88,275.00
90	PREEMPTION CONFIRMATION LIGHT	120	EACH	599.00	71,880.00	740.00	88,800.00	392.00	47,040.00	434.75	52,170.00	370.00	44,400.00	458.00	54,960.00
91	REMOTE MONITORING STATION, AS PER PLAN	1	EACH	386,600.00	386,600.00	411,500.00	411,500.00	422,034.00	422,034.00	390,466.00	390,466.00	434,400.00	434,400.00	389,400.00	389,400.00
92	SYSTEM ANALYSIS	1	LUMP	45,000.00	45,000.00	30,000.00	30,000.00	72,002.00	72,002.00	67,215.99	67,215.99	77,120.00	77,120.00	71,277.50	71,277.50
93	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	32	EACH	5,975.00	191,200.00	6,345.00	203,040.00	5,065.00	162,080.00	6,638.55	212,433.60	6,830.00	218,560.00	6,512.80	208,409.60
94	CONTROLLER ITEM, MISC.: INSTALLATION OF MISCELLANEOUS CABINET ITEMS	9	EACH	3,470.00	31,230.00	3,425.00	30,825.00	520.00	4,680.00	4,139.75	37,257.75	3,960.00	35,640.00	3,900.00	35,100.00
95	CONTROLLER ITEM, MISC.: REWIRING EXISTING CONTROLLER	1	EACH	495.00	495.00	105.00	105.00	754.00	754.00	8,140.00	8,140.00	250.00	250.00	1,010.00	1,010.00
96	CONTROLLER ITEM, MISC.: CONTROLLER UPGRADE	13	EACH	1,035.00	13,455.00	1,510.00	19,630.00	1,484.00	19,292.00	1,490.95	19,382.35	1,350.00	17,550.00	1,382.00	17,966.00
97	CROSSWALK LINE	412	FT	4.15	1,709.80	6.20	2,554.40	2.69	1,108.28	7.21	2,970.52	3.80	1,565.60	3.72	1,532.64
98	LANE ARROW	4	EACH	130.00	520.00	137.00	548.00	49.16	196.64	137.50	550.00	67.00	268.00	66.00	264.00
99	REMOVAL OF PAVEMENT MARKING, AS PER PLAN	4	EACH	195.00	\$ 780.00	465.00	1,860.00	150.00	600.00	203.50	814.00	540.00	2,160.00	528.00	2,112.00
100	REMOVAL OF PAVEMENT MARKING, AS PER PLAN	139	FT	17.30	2,404.70	19.00	2,641.00	24.39	3,390.21	14.03	1,950.17	15.50	2,154.50	15.12	2,101.68
101	FIBER OPTIC CABLE, ARMORED, 18 FIBER	79,328	FT	1.49	118,198.72	1.68	133,271.04	1.55	122,958.40	3.09	245,123.52	4.30	341,110.40	2.24	177,694.72
102	FIBER OPTIC CABLE, ARMORED, 36 FIBER	11,914	FT	1.62	19,300.68	2.05	24,423.70	1.66	19,777.24	3.23	38,482.22	3.50	41,699.00	2.37	28,236.18



**CITY OF SOLON  
CITY WIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT, CONTRACT 2010.20  
BID TABULATION**

ITEM NO.	DESCRIPTION	QTY	UNIT	PERRAM ELECTRIC		MILLER CABLE		RAUHORN ELECTRIC		ZENITH SYSTEMS		TERRACE CONSTRUCTION		THOMPSON ELECTRIC	
				TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST
103	FIBER OPTIC CABLE, ARMORED, INTEGRAL MESSENGER, 18 FIBER	0	FT	2.77	-	7.00	-	-	-	2.81	-	-	-	-	-
104	FIBER OPTIC CABLE, ARMORED, INTEGRAL MESSENGER, 36 FIBER	0	FT	2.90	-	9.00	-	-	-	2.81	-	-	-	-	-
105	FAN-OUT KIT, 6 FIBER	42	EACH	1.00	42.00	80.00	3,360.00	219.00	9,198.00	26.48	1,112.16	33.00	1,386.00	32.40	1,360.80
106	DROP CABLE, 6 FIBER	42	EACH	410.00	17,220.00	210.00	8,820.00	579.00	24,318.00	194.00	8,148.00	330.00	13,860.00	21.60	907.20
107	FIBER OPTIC PATCH CORD, 4 FIBER	42	EACH	98.00	4,116.00	300.00	12,600.00	252.00	10,584.00	42.52	1,785.84	53.00	2,226.00	86.40	3,628.80
108	TERMINATION PANEL, 6 FIBER	42	EACH	390.00	16,380.00	400.00	16,800.00	410.00	17,220.00	193.44	8,124.48	240.00	10,080.00	114.00	4,788.00
109	FUSION SPLICE	252	EACH	44.00	11,088.00	41.00	10,332.00	110.00	27,720.00	16.61	4,185.72	20.00	5,040.00	43.20	10,886.40
110	SPLICE ENCLOSURE	52	EACH	503.00	26,156.00	660.00	34,320.00	1,350.00	70,200.00	638.86	33,220.72	270.00	14,040.00	648.00	33,696.00
111	FIBER OPTIC CONNECTOR	234	EACH	40.80	9,547.20	40.00	9,360.00	181.00	42,354.00	40.83	9,554.22	50.00	11,700.00	30.00	7,020.00
112	FIBER OPTIC CABLE MODEM	42	EACH	1,085.00	45,570.00	1,245.00	52,290.00	1,363.00	57,246.00	1,207.25	50,704.50	1,320.00	55,440.00	1,247.75	52,405.50
113	SLACK INSTALLATION	52	EACH	175.00	9,100.00	150.00	7,800.00	260.00	13,520.00	136.00	7,072.00	250.00	13,000.00	512.00	26,624.00
114	VIDEO DETECTION SYSTEM, AS PER PLAN	34	EACH	14,975.00	509,150.00	16,595.00	564,230.00	15,048.00	511,632.00	15,793.00	536,962.00	17,410.00	591,940.00	15,365.00	522,410.00
				-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL ITEMS 1-114</b>					\$ 4,167,670.62		\$ 4,800,479.00		\$ 5,065,194.33		\$ 5,070,414.17		\$ 5,247,004.76		\$ 5,303,245.30
16A	OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 9, AS PER PLAN	1	EACH	10,425.00	10,425.00	10,895.00	10,895.00	11,388.00	11,388.00	10,112.20	10,112.20	10,340.00	10,340.00	7,910.40	7,910.40
17A	OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 11, AS PER PLAN	3	EACH	10,540.00	31,620.00	11,035.00	33,105.00	11,516.00	34,548.00	10,242.00	30,726.00	10,490.00	31,470.00	10,308.00	30,924.00
18A	OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 13, AS PER PLAN	1	EACH	11,845.00	11,845.00	12,400.00	12,400.00	12,784.00	12,784.00	11,531.20	11,531.20	11,550.00	11,550.00	11,872.80	11,872.80
56A	SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 4 POLE, WITH MAST ARMS TC-81.21 DESIGN 3 AND DESIGN 2, AS PER PLAN	1	EACH	7,940.00	7,940.00	8,735.00	8,735.00	7,907.00	7,907.00	7,533.50	7,533.50	7,820.00	7,820.00	7,140.40	7,140.40
57A	SIGNAL SUPPORT, TYPE TC-12.30 DESIGN 6 POLE, WITH MAST ARMS TC-81.21 DESIGN 12 AND DESIGN 11, AS PER PLAN	1	EACH	12,320.00	12,320.00	13,415.00	13,415.00	12,646.99	12,646.99	12,352.60	12,352.60	12,970.00	12,970.00	15,289.60	15,289.60
58A	SIGNAL SUPPORT, TYPE TC-12.30 DESIGN 7 POLE, WITH MAST ARMS TC-81.21 DESIGN 13 AND DESIGN 3, AS PER PLAN NO. 1	1	EACH	16,890.00	16,890.00	19,000.00	19,000.00	17,589.00	17,589.00	17,517.40	17,517.40	18,240.00	18,240.00	16,496.00	16,496.00
59A	SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 3 POLE, WITH MAST ARMS TC-81.21 DESIGN 1 AND DESIGN 1, AS PER PLAN	0	EACH	6,650.00	-	7,450.00	-	-	-	6,111.20	-	-	-	-	-
60A	SIGNAL SUPPORT, TYPE TC-81.21 DESIGN 3 POLE, WITH MAST ARMS TC-81.21 DESIGN 2 AND DESIGN 1, AS PER PLAN	1	EACH	6,770.00	6,770.00	7,450.00	7,450.00	6,155.00	6,155.00	6,246.50	6,246.50	6,750.00	6,750.00	6,389.60	6,389.60
61A	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 1, AS PER PLAN	6	EACH	4,975.00	29,850.00	4,700.00	28,200.00	4,357.00	26,142.00	4,348.30	26,089.80	4,550.00	27,300.00	4,365.60	26,193.60
62A	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2, AS PER PLAN	3	EACH	5,300.00	15,900.00	5,125.00	15,375.00	4,708.09	14,124.27	4,775.80	14,327.40	4,950.00	14,850.00	4,710.00	14,130.00
63A	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 3, AS PER PLAN	5	EACH	5,585.00	27,925.00	5,400.00	27,000.00	5,012.00	25,060.00	5,084.90	25,424.50	5,290.00	26,450.00	5,184.00	25,920.00
64A	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 3, AS PER PLAN NO.1	1	EACH	8,935.00	8,935.00	7,750.00	7,750.00	8,638.00	8,638.00	8,771.00	8,771.00	9,380.00	9,380.00	6,654.00	6,654.00
65A	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 4, AS PER PLAN	4	EACH	7,245.00	28,980.00	7,425.00	29,700.00	6,810.00	27,240.00	6,912.00	27,648.00	7,980.00	31,920.00	6,441.60	25,766.40
66A	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN	10	EACH	8,155.00	81,550.00	8,850.00	88,500.00	7,796.00	77,960.00	8,055.20	80,552.00	8,500.00	85,000.00	8,183.20	81,832.00
67A	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 11, AS PER PLAN NO.1	5	EACH	9,270.00	46,350.00	10,060.00	50,300.00	8,999.00	44,995.00	9,278.40	46,392.00	9,650.00	48,250.00	8,162.00	40,810.00
68A	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 12, AS PER PLAN	8	EACH	8,630.00	69,040.00	8,950.00	71,600.00	8,308.00	66,464.00	8,575.50	68,604.00	8,610.00	68,880.00	9,828.00	78,624.00
69A	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 12, AS PER PLAN NO.1	1	EACH	9,470.00	9,470.00	9,900.00	9,900.00	9,216.00	9,216.00	9,498.40	9,498.40	9,500.00	9,500.00	11,700.00	11,700.00
70A	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN	3	EACH	10,285.00	30,855.00	10,710.00	32,130.00	10,102.00	30,306.00	10,399.30	31,197.90	10,500.00	31,500.00	11,313.20	33,939.60
71A	SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 13, AS PER PLAN NO.1	3	EACH	10,890.00	32,670.00	11,950.00	35,850.00	10,756.00	32,268.00	11,064.80	33,194.40	11,400.00	34,200.00	13,032.80	39,098.40



**CITY OF SOLON  
CITY WIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT, CONTRACT 2010.20  
BID TABULATION**

ITEM NO.	DESCRIPTION	QTY	UNIT	PERRAM ELECTRIC		MILLER CABLE		RAUHORN ELECTRIC		ZENITH SYSTEMS		TERRACE CONSTRUCTION		THOMPSON ELECTRIC	
				TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST	TOTAL UNIT COST	TOTAL COST
72A	PEDESTAL, 8', AS PER PLAN	37	EACH	1,176.00	43,512.00	680.00	25,160.00	585.00	21,645.00	698.00	25,826.00	610.00	22,570.00	648.00	23,976.00
84A	PREEMPTION	33	EACH	5,520.00	182,160.00	6,020.00	198,660.00	4,516.01	149,028.33	5,160.00	170,280.00	5,870.00	193,710.00	70.20	2,316.60
84A1	PREEMPTION NO. 1	33	EACH	11.50	379.50	45.00	1,485.00	200.00	6,600.00	221.00	7,293.00	32.00	1,056.00	70.20	2,316.60
85A	PREEMPTION RECEIVING UNIT	120	EACH	335.00	40,200.00	120.00	14,400.00	455.00	54,600.00	387.50	46,500.00	640.00	76,800.00	380.00	45,600.00
85A1	PREEMPTION RECEIVING UNIT NO. 1	120	EACH	595.00	71,400.00	640.00	76,800.00	677.00	81,240.00	591.00	70,920.00	860.00	103,200.00	602.00	72,240.00
87A	PREEMPTION PHASE SELECTOR	33	EACH	3,020.00	99,660.00	3,405.00	112,365.00	3,123.01	103,059.33	3,027.50	99,907.50	3,680.00	121,440.00	3,635.00	119,955.00
87A1	PREEMPTION PHASE SELECTOR NO. 1	33	EACH	2,530.00	83,490.00	2,440.00	80,520.00	2,663.00	87,879.00	2,560.00	84,480.00	2,710.00	89,430.00	2,675.00	88,275.00
114A	VIDEO DETECTION SYSTEM, AS PER PLAN	34	EACH	19,566.00	665,244.00	20,110.00	683,740.00	17,141.00	582,794.00	17,717.33	602,389.22	20,190.00	686,460.00	20,645.20	701,936.80

  Mathematical Error; Correction shown