

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE PRICE	ENGINEER'S ESTIMATE AMOUNT	1. Kenmore Construction Co. PRICE	1. Kenmore Construction Co. AMOUNT	*2. Perram Electric Inc. PRICE	*2. Perram Electric Inc. AMOUNT	**3. Miller Cable Company PRICE	**3. Miller Cable Company AMOUNT
1	103.05	Contract Performance Bond	1	L.S.	\$71,500.00	\$71,500.00	\$25,000.00	\$25,000.00	\$12,800.00	\$12,800.00	\$25,710.00	\$25,710.00
<b>PART 1 - RESURFACING</b>												
<i>ROADWAY</i>												
2	202	Curb Removed	1,500	FT.	\$3.00	\$4,500.00	\$2.00	\$3,000.00	\$3.00	\$4,500.00	\$3.20	\$4,800.00
3	204	Excavation of Subgrade	800	C.Y.	\$9.00	\$7,200.00	\$10.00	\$8,000.00	\$5.00	\$4,000.00	\$5.00	\$4,000.00
4	204	Granular Embankment	800	C.Y.	\$16.50	\$13,200.00	\$20.00	\$16,000.00	\$15.00	\$12,000.00	\$15.00	\$12,000.00
<i>DRAINAGE</i>												
5	604	Catch Basin Frame and Grate (Castings Provided By City)	10	EA.	\$325.00	\$3,250.00	\$25.00	\$250.00	\$260.00	\$2,600.00	\$260.00	\$2,600.00
6	604	Manhole Frame and Cover (Castings Provided By City)	10	EA.	\$350.00	\$3,500.00	\$25.00	\$250.00	\$260.00	\$2,600.00	\$260.00	\$2,600.00
7	604	Manhole Adjusted to Grade	95	EA.	\$350.00	\$33,250.00	\$50.00	\$4,750.00	\$125.00	\$11,875.00	\$125.00	\$11,875.00
8	604	Monument Box Adjusted to Grade	20	EA.	\$250.00	\$5,000.00	\$25.00	\$500.00	\$100.00	\$2,000.00	\$100.00	\$2,000.00
<i>PAVEMENT</i>												
9	253	Pavement Repair	4960	S.Y.	\$26.00	\$128,960.00	\$21.00	\$104,160.00	\$20.00	\$99,200.00	\$20.00	\$99,200.00
10	254	Pavement Planing, Asphalt Concrete	104184	S.Y.	\$1.50	\$156,276.00	\$1.25	\$130,230.00	\$2.00	\$208,368.00	\$2.00	\$208,368.00
11	254	Patching Planed Surface	2000	S.Y.	\$1.50	\$3,000.00	\$1.00	\$2,000.00	\$1.50	\$3,000.00	\$1.50	\$3,000.00
12	407	Tack Coat	7474	GAL.	\$0.85	\$6,352.90	\$1.00	\$7,474.00	\$0.50	\$3,737.00	\$0.50	\$3,737.00
13	407	Tack Coat for Intermediate Course	3587	GAL.	\$0.90	\$3,228.30	\$1.00	\$3,587.00	\$0.55	\$1,972.85	\$0.50	\$1,793.50
14	446	Asphalt Concrete Intermediate Course, Type 2, PG64-28	4353	C.Y.	\$82.00	\$356,946.00	\$75.00	\$326,475.00	\$69.00	\$300,357.00	\$73.00	\$317,769.00
15	446	Asphalt Concrete Surface Course, Type 1H	4168	C.Y.	\$86.00	\$358,448.00	\$82.00	\$341,776.00	\$78.00	\$325,104.00	\$98.00	\$408,464.00
16	609	Curb Misc.: Curb, 12"X18" for Header, Akron Specifications	151	FT.	\$35.00	\$5,285.00	\$30.00	\$4,530.00	\$20.00	\$3,020.00	\$18.00	\$2,718.00
17	609	Curb Misc.: Curb, 6"X18", Akron Specifications	1500	FT.	\$12.00	\$18,000.00	\$18.00	\$27,000.00	\$17.00	\$25,500.00	\$17.50	\$26,250.00
<i>WATER WORK</i>												
18	638	Valve Box	10	EA.	\$300.00	\$3,000.00	\$50.00	\$500.00	\$300.00	\$3,000.00	\$65.00	\$650.00
19	638	Valve Box Adjusted to Grade	89	EA.	\$160.00	\$14,240.00	\$25.00	\$2,225.00	\$40.00	\$3,560.00	\$200.00	\$17,800.00
<i>TRAFFIC CONTROL</i>												
20	642	Edge Line, Type 1	0.22	MILE	\$1,500.00	\$330.00	\$450.00	\$99.00	\$500.00	\$110.00	\$350.00	\$77.00
21	642	Lane Line, Type 1	5.65	MILE	\$1,025.00	\$5,791.25	\$300.00	\$1,695.00	\$350.00	\$1,977.50	\$300.00	\$1,695.00
22	642	Center Line, Type 1	3.98	MILE	\$2,025.00	\$8,059.50	\$500.00	\$1,990.00	\$600.00	\$2,388.00	\$550.00	\$2,189.00
23	644	Channelizing Line	1974	FT.	\$1.50	\$2,961.00	\$1.00	\$1,974.00	\$1.05	\$2,072.70	\$0.90	\$1,776.60
24	644	Stop Line	1376	FT.	\$7.00	\$9,632.00	\$5.00	\$6,880.00	\$5.00	\$6,880.00	\$5.00	\$6,880.00
25	644	Crosswalk Line	5389	FT.	\$2.50	\$13,472.50	\$2.00	\$10,778.00	\$2.20	\$11,855.80	\$2.00	\$10,778.00
26	644	Transverse Line	813	FT.	\$4.00	\$3,252.00	\$5.00	\$4,065.00	\$0.70	\$569.10	\$4.50	\$3,658.50
27	644	Island Marking	215	S.F.	\$3.00	\$645.00	\$3.00	\$645.00	\$2.50	\$537.50	\$1.80	\$387.00
28	644	Lane Arrow	62	EA.	\$80.00	\$4,960.00	\$75.00	\$4,650.00	\$85.00	\$5,270.00	\$78.50	\$4,867.00
29	644	Word On Pavement, 72"	20	EA.	\$100.00	\$2,000.00	\$100.00	\$2,000.00	\$135.00	\$2,700.00	\$88.00	\$1,760.00
30	646	Stop Line	57	FT.	\$9.00	\$513.00	\$6.00	\$342.00	\$7.50	\$427.50	\$12.00	\$684.00

31	646	Crosswalk Line	269 FT.	\$4.00	\$1,076.00	\$3.00	\$807.00	\$3.50	\$941.50	\$8.15	\$2,192.35
		<i>MAINTENANCE OF TRAFFIC</i>									
32	614	Law Enforcement Officer with Patrol Car	200 HOUR	\$45.00	\$9,000.00	\$45.00	\$9,000.00	\$45.00	\$9,000.00	\$45.00	\$9,000.00
33	614	Work Zone Marking Sign	6 EA.	\$85.00	\$510.00	\$100.00	\$600.00	\$100.00	\$600.00	\$300.00	\$1,800.00
34	614	Asphalt Concrete for Maintaining Traffic	200 C.Y.	\$100.00	\$20,000.00	\$60.00	\$12,000.00	\$315.00	\$63,000.00	\$315.00	\$63,000.00
35	614	Work Zone Lane Line, Class II	16.98 MILE	\$400.00	\$6,792.00	\$550.00	\$9,339.00	\$600.00	\$10,188.00	\$492.00	\$8,354.16
36	614	Work Zone Center Line, Class II	11.94 MILE	\$700.00	\$8,358.00	\$550.00	\$6,567.00	\$600.00	\$7,164.00	\$477.00	\$5,695.38
37	614	Work Zone Channelizing Line, Class II	5922 FT.	\$0.60	\$3,553.20	\$1.00	\$5,922.00	\$0.75	\$4,441.50	\$1.30	\$7,698.60
38	614	Work Zone Stop Line, Class I	5754 FT.	\$3.50	\$20,139.00	\$2.00	\$11,508.00	\$2.00	\$11,508.00	\$4.25	\$24,454.50
		<i>GENERAL</i>									
39	614	Maintaining Traffic	1 L.S.	\$20,000	\$20,000.00	\$5,000.00	\$5,000.00	\$1.00	\$1.00	\$169,500.00	\$169,500.00
40	619	Field Office, Type B	3 MONTH	\$1,600.00	\$4,800.00	\$1,500.00	\$4,500.00	\$500.00	\$1,500.00	\$600.00	\$1,800.00
41	623	Construction Layout Stakes	1 L.S.	\$5,000.00	\$5,000.00	\$7,000.00	\$7,000.00	\$3,000.00	\$3,000.00	\$7,150.00	\$7,150.00
42	624	Mobilization	1 L.S.	\$20,000	\$20,000.00	\$5,000.00	\$5,000.00	\$43,000.00	\$43,000.00	\$24,500.00	\$24,500.00
43	Special	Computer Equipment	1 L.S.	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00
		<b>PART 2 - SIGNALIZATION</b>									
		<i>ROADWAY</i>									
44	202	Walk Removed	11847 S.F.	\$1.00	\$11,847.00	\$1.00	\$11,847.00	\$1.00	\$11,847.00	\$1.30	\$15,401.10
45	202	Curb Removed	550 FT.	\$3.00	\$1,650.00	\$3.50	\$1,925.00	\$3.00	\$1,650.00	\$3.20	\$1,760.00
46	202	Curb & Gutter Removed	95 FT.	\$3.50	\$332.50	\$4.00	\$380.00	\$3.00	\$285.00	\$4.00	\$380.00
47	202	Pull Box Removed	7 EA.	\$95.00	\$665.00	\$100.00	\$700.00	\$165.00	\$1,155.00	\$110.00	\$770.00
48	608	6" Concrete Walk	11775 S.F.	\$4.50	\$52,987.50	\$6.00	\$70,650.00	\$3.75	\$44,156.25	\$4.50	\$52,987.50
49	608	Curb Ramp	31 EA.	\$445.00	\$13,795.00	\$500.00	\$15,500.00	\$975.00	\$30,225.00	\$420.00	\$13,020.00
50	690	Special - Work Involving Solid Waste	12 TON	\$350.00	\$4,200.00	\$400.00	\$4,800.00	\$200.00	\$2,400.00	\$225.00	\$2,700.00
		<i>PAVEMENT</i>									
51	609	Curb Misc.: Combination Curb and Gutter, Akron Specifications	95 FT.	\$23.00	\$2,185.00	\$28.00	\$2,660.00	\$20.00	\$1,900.00	\$18.00	\$1,710.00
52	609	Curb Misc.: Curb, 6"x18", Akron Specifications	550 FT.	\$11.25	\$6,187.50	\$25.00	\$13,750.00	\$17.00	\$9,350.00	\$17.85	\$9,817.50
		<i>TRAFFIC CONTROL</i>									
53	630	Sign Attachment Assembly	104 EA.	\$245.00	\$25,480.00	\$125.00	\$13,000.00	\$66.50	\$6,916.00	\$150.00	\$15,600.00
54	630	Sign, Flat Sheet, Type G	359 S.F.	\$11.00	\$3,949.00	\$15.00	\$5,385.00	\$13.00	\$4,667.00	\$21.00	\$7,539.00
		<i>LIGHTING</i>									
55	625	Connector Kit, Type III	24 EA.	\$60.00	\$1,440.00	\$50.00	\$1,200.00	\$62.00	\$1,488.00	\$50.00	\$1,200.00
56	625	Cable Splicing Kit	24 EA.	\$62.00	\$1,488.00	\$65.00	\$1,560.00	\$62.00	\$1,488.00	\$50.00	\$1,200.00
57	625	Bracket Arm, 6'	3 EA.	\$475.00	\$1,425.00	\$300.00	\$900.00	\$225.00	\$675.00	\$210.00	\$630.00
58	625	Bracket Arm, 10'	14 EA.	\$550.00	\$7,700.00	\$400.00	\$5,600.00	\$310.00	\$4,340.00	\$310.00	\$4,340.00
59	625	Bracket Arm, 20'	7 EA.	\$645.00	\$4,515.00	\$600.00	\$4,200.00	\$455.00	\$3,185.00	\$600.00	\$4,200.00
60	625	No. 4 AWG 600 Volt Distribution Cable	3980 FT.	\$1.50	\$5,970.00	\$1.00	\$3,980.00	\$1.15	\$4,577.00	\$2.00	\$7,960.00
61	625	No. 10 AWG Pole and Bracket Cable	1152 FT.	\$1.50	\$1,728.00	\$1.00	\$1,152.00	\$1.00	\$1,152.00	\$1.00	\$1,152.00
62	625	Luminaire, Conventional, As Per Plan	24 EA.	\$275.00	\$6,600.00	\$250.00	\$6,000.00	\$225.00	\$5,400.00	\$275.00	\$6,600.00
63	625	Power Service, As Per Plan	24 EA.	\$2,500.00	\$60,000.00	\$1,200.00	\$28,800.00	\$10.00	\$240.00	\$85.00	\$2,040.00
		<i>TRAFFIC SIGNAL</i>									
64	625	Conduit, 2", 725.04	653 FT.	\$7.00	\$4,571.00	\$7.50	\$4,897.50	\$8.17	\$5,335.01	\$8.00	\$5,224.00
65	625	Conduit, 3", 725.04	3381 FT.	\$10.00	\$33,810.00	\$11.00	\$37,191.00	\$13.95	\$47,164.95	\$13.50	\$45,643.50
66	625	Conduit, 4", 725.04	35 FT.	\$13.00	\$455.00	\$16.50	\$577.50	\$34.00	\$1,190.00	\$21.00	\$735.00
67	625	Trench, As Per Plan	1897 FT.	\$4.25	\$8,062.25	\$5.00	\$9,485.00	\$6.70	\$12,709.90	\$12.50	\$23,712.50
68	625	Trench in Paved Area, Type B, As Per Plan	1588 FT.	\$28.50	\$45,258.00	\$25.00	\$39,700.00	\$60.75	\$96,471.00	\$24.00	\$38,112.00
69	625	Trench Misc.: Trench for Fiber Optic Cable	170 FT.	\$5.25	\$892.50	\$6.00	\$1,020.00	\$5.20	\$884.00	\$20.00	\$3,400.00

70	625	Pull Box Misc.: Pull Box, 725.07, 24"x36"x26"	51 EA.	\$1,280.00	\$65,280.00	\$500.00	\$25,500.00	\$610.00	\$31,110.00	\$1,080.00	\$55,080.00
71	625	Ground Rod, As Per Plan	53 EA.	\$131.00	\$6,943.00	\$120.00	\$6,360.00	\$117.50	\$6,227.50	\$185.00	\$9,805.00
72	625	Plastic Caution Tape	3485 FT.	\$0.50	\$1,742.50	\$0.10	\$348.50	\$0.06	\$209.10	\$0.20	\$697.00
73	632	Conduit Riser, 2" Diameter	21 EA.	\$240.00	\$5,040.00	\$225.00	\$4,725.00	\$290.00	\$6,090.00	\$285.00	\$5,985.00
74	632	Conduit Riser, 3" Diameter	5 EA.	\$500.00	\$2,500.00	\$450.00	\$2,250.00	\$547.00	\$2,735.00	\$560.00	\$2,800.00
75	632	Vehicular Signal Head, 3 Section, 12" Lens, 1 Way, Polycarbonate, As Per Plan	81 EA.	\$700.00	\$56,700.00	\$650.00	\$52,650.00	\$545.00	\$44,145.00	\$685.00	\$55,485.00
76	632	Vehicular Signal Head, 5 Section, 12" Lens, 1 Way, Polycarbonate, As Per Plan	10 EA.	\$1,000.00	\$10,000.00	\$1,100.00	\$11,000.00	\$930.00	\$9,300.00	\$1,040.00	\$10,400.00
77	632	Relamp Existing Signal Section with LED Lamp Unit, Circular Red, As Per Plan	37 EA.	\$200.00	\$7,400.00	\$115.00	\$4,255.00	\$67.00	\$2,479.00	\$70.00	\$2,590.00
78	632	Relamp Existing Signal Section with LED Lamp Unit, Circular Yellow, As Per Plan	37 EA.	\$200.00	\$7,400.00	\$115.00	\$4,255.00	\$72.00	\$2,664.00	\$72.00	\$2,664.00
79	632	Relamp Existing Signal Section with LED Lamp Unit, Circular Green, As Per Plan	37 EA.	\$200.00	\$7,400.00	\$165.00	\$6,105.00	\$122.00	\$4,514.00	\$115.00	\$4,255.00
80	632	Relamp Existing Signal Section with LED Lamp Unit, Circular Yellow Arrow, As Per Plan	8 EA.	\$200.00	\$1,600.00	\$115.00	\$920.00	\$75.00	\$600.00	\$70.00	\$560.00
81	632	Relamp Existing Signal Section with LED Lamp Unit, Circular Green Arrow, As Per Plan	8 EA.	\$200.00	\$1,600.00	\$135.00	\$1,080.00	\$104.00	\$832.00	\$95.00	\$760.00
82	632	Pedestrian Signal Head, Type D2, As Per Plan	94 EA.	\$485.00	\$45,590.00	\$500.00	\$47,000.00	\$382.00	\$35,908.00	\$500.00	\$47,000.00
83	632	Covering of Vehicular Signal Head	122 EA.	\$17.25	\$2,104.50	\$5.00	\$610.00	\$5.00	\$610.00	\$20.00	\$2,440.00
84	632	Covering of Pedestrian Signal Head	94 EA.	\$16.00	\$1,504.00	\$5.00	\$470.00	\$2.00	\$188.00	\$12.00	\$1,128.00
85	632	Pedestrian Push Button	94 EA.	\$130.00	\$12,220.00	\$130.00	\$12,220.00	\$128.00	\$12,032.00	\$70.00	\$6,580.00
86	632	Detector Loop	2 EA.	\$930.00	\$1,860.00	\$1,100.00	\$2,200.00	\$695.00	\$1,390.00	\$700.00	\$1,400.00
87	632	Loop Detector Unit, As Per Plan	2 EA.	\$255.00	\$510.00	\$150.00	\$300.00	\$145.00	\$290.00	\$140.00	\$280.00
88	632	Signal Cable, 7 Conductor, No. 14 AWG.	25070 FT.	\$1.75	\$43,872.50	\$1.10	\$27,577.00	\$1.06	\$26,574.20	\$1.65	\$41,365.50
89	632	Interconnect Misc.: Drop Cable 6 Fiber	779 FT.	\$3.50	\$2,726.50	\$1.00	\$779.00	\$2.30	\$1,791.70	\$1.75	\$1,363.25
90	632	Interconnect Misc.: Trunk Cable, 24 Fiber, Loose Tube, Single Mode	21154 FT.	\$8.00	\$169,232.00	\$2.00	\$42,308.00	\$1.87	\$39,557.98	\$2.80	\$59,231.20
91	632	Interconnect Misc.: Fan Out Kit, 6 Fiber	15 EA.	\$176.00	\$2,640.00	\$210.00	\$3,150.00	\$10.00	\$150.00	\$85.00	\$1,275.00
92	632	Interconnect Misc.: Fiber Optic Patch Cord, 4 Fiber	15 EA.	\$128.00	\$1,920.00	\$210.00	\$3,150.00	\$58.00	\$870.00	\$90.00	\$1,350.00
93	632	Interconnect Misc.: Termination Panel, Controller Cabinet	15 EA.	\$1,500.00	\$22,500.00	\$600.00	\$9,000.00	\$166.00	\$2,490.00	\$250.00	\$3,750.00
94	632	Interconnect Misc.: Termination Panel, Building	2 EA.	\$2,500.00	\$5,000.00	\$7,100.00	\$14,200.00	\$665.00	\$1,330.00	\$3,600.00	\$7,200.00
95	632	Interconnect Misc.: Fusion Splice	114 EA.	\$1,052.63	\$119,999.82	\$30.00	\$3,420.00	\$180.00	\$20,520.00	\$70.00	\$7,980.00
96	632	Interconnect Misc.: Splice Enclosure, Aerial	9 EA.	\$593.75	\$5,343.75	\$500.00	\$4,500.00	\$465.00	\$4,185.00	\$240.00	\$2,160.00
97	632	Interconnect Misc.: Splice Enclosure, Under Grade	7 EA.	\$593.75	\$4,156.25	\$500.00	\$3,500.00	\$455.00	\$3,185.00	\$240.00	\$1,680.00
98	632	Interconnect Misc.: Fusion Splicer	1 EA.	\$14,000	\$14,000.00	\$10,000.00	\$10,000.00	\$27,610.00	\$27,610.00	\$30,000.00	\$30,000.00
99	632	Interconnect Misc.: Cleave Tool	1 EA.	\$2,000.00	\$2,000.00	\$1,200.00	\$1,200.00	\$1,300.00	\$1,300.00	\$1,500.00	\$1,500.00
100	632	Interconnect Misc.: Fiber Optic Termination Tool Kit	1 EA.	\$3,000.00	\$3,000.00	\$2,000.00	\$2,000.00	\$1,425.00	\$1,425.00	\$2,600.00	\$2,600.00
101	632	Interconnect Misc.: Optical Time Domain Reflectometer	1 EA.	\$15,000	\$15,000.00	\$10,000.00	\$10,000.00	\$14,650.00	\$14,650.00	\$12,400.00	\$12,400.00
102	632	Interconnect Misc.: Fiber Optic Cable Testing	1 L.S.	\$6,000.00	\$6,000.00	\$450.00	\$450.00	\$3,660.00	\$3,660.00	\$3,900.00	\$3,900.00
103	632	Interconnect Misc.: Fiber Optic Training Plan	1 L.S.	\$5,000.00	\$5,000.00	\$25,000.00	\$25,000.00	\$7,200.00	\$7,200.00	\$8,000.00	\$8,000.00
104	632	Signal Support Foundation, As Per Plan	28 EA.	\$1,920.00	\$53,760.00	\$1,700.00	\$47,600.00	\$1,673.00	\$46,844.00	\$2,475.00	\$69,300.00
105	632	Pedestal Foundation, As Per Plan	14 EA.	\$530.00	\$7,420.00	\$450.00	\$6,300.00	\$348.00	\$4,872.00	\$500.00	\$7,000.00
106	632	Loop Detector Lead-In Cable	464 FT.	\$1.25	\$580.00	\$1.50	\$696.00	\$1.15	\$533.60	\$1.30	\$603.20
107	632	Power Cable, 3 Conductor, No. 8 AWG	1119 FT.	\$2.25	\$2,517.75	\$2.00	\$2,238.00	\$1.45	\$1,622.55	\$2.00	\$2,238.00
108	632	Power Service, As Per Plan	15 EA.	\$1,100.00	\$16,500.00	\$1,100.00	\$16,500.00	\$10.00	\$150.00	\$550.00	\$8,250.00

109	632	Signal Support, Type TC-81.20, Design 2	1 EA.	\$3,300.00	\$3,300.00	\$3,250.00	\$3,250.00	\$2,785.00	\$2,785.00	\$2,400.00	\$2,400.00
110	632	Signal Support, Type TC-81.20, Design 3	1 EA.	\$3,500.00	\$3,500.00	\$3,450.00	\$3,450.00	\$3,070.00	\$3,070.00	\$2,875.00	\$2,875.00
111	632	Signal Support, Type TC-81.20, Design 11	2 EA.	\$6,600.00	\$13,200.00	\$5,000.00	\$10,000.00	\$4,445.00	\$8,890.00	\$5,275.00	\$10,550.00
112	632	Signal Support, Type TC-81.20, Design 12	1 EA.	\$7,600.00	\$7,600.00	\$5,800.00	\$5,800.00	\$5,195.00	\$5,195.00	\$6,000.00	\$6,000.00
113	632	Combination Signal Support, Type TC-12.30, Design 5	1 EA.	\$8,000.00	\$8,000.00	\$7,500.00	\$7,500.00	\$6,825.00	\$6,825.00	\$7,210.00	\$7,210.00
114	632	Combination Signal Support, Type TC-12.30, Design 6	2 EA.	\$8,500.00	\$17,000.00	\$9,000.00	\$18,000.00	\$7,715.00	\$15,430.00	\$8,500.00	\$17,000.00
115	632	Combination Signal Support, Type TC-81.20, Design 2	3 EA.	\$3,500.00	\$10,500.00	\$3,200.00	\$9,600.00	\$2,865.00	\$8,595.00	\$2,500.00	\$7,500.00
116	632	Combination Signal Support, Type TC-81.20, Design 3	7 EA.	\$3,700.00	\$25,900.00	\$3,500.00	\$24,500.00	\$3,165.00	\$22,155.00	\$2,975.00	\$20,825.00
117	632	Combination Signal Support, Type TC-81.20, Design 4	3 EA.	\$4,150.00	\$12,450.00	\$4,600.00	\$13,800.00	\$4,159.00	\$12,477.00	\$5,190.00	\$15,570.00
118	632	Combination Signal Support, Type TC-81.20, Design 11	3 EA.	\$6,800.00	\$20,400.00	\$5,100.00	\$15,300.00	\$4,515.00	\$13,545.00	\$5,300.00	\$15,900.00
119	632	Combination Signal Support, Type TC-81.20, Design 12	4 EA.	\$7,800.00	\$31,200.00	\$5,500.00	\$22,000.00	\$5,255.00	\$21,020.00	\$6,100.00	\$24,400.00
120	632	Pedestal, 8'	14 EA.	\$585.00	\$8,190.00	\$575.00	\$8,050.00	\$406.00	\$5,684.00	\$650.00	\$9,100.00
121	632	Removal of Pedestrian Signal Head and Storage	47 EA.	\$250.00	\$11,750.00	\$95.00	\$4,465.00	\$42.00	\$1,974.00	\$75.00	\$3,525.00
122	632	Removal of Pedestrian Pushbutton and Storage	47 EA.	\$250.00	\$11,750.00	\$55.00	\$2,585.00	\$42.00	\$1,974.00	\$15.00	\$705.00
123	632	Removal of Controller and Storage	15 EA.	\$250.00	\$3,750.00	\$115.00	\$1,725.00	\$165.00	\$2,475.00	\$150.00	\$2,250.00
124	632	Removal of Traffic Signal Installation, As Per Plan	12 EA.	\$2,000.00	\$24,000.00	\$900.00	\$10,800.00	\$1,217.00	\$14,604.00	\$400.00	\$4,800.00
125	632	Signalization Misc.: Video Detection Unit, As Per Plan	58 EA.	\$10,500	\$609,000.00	\$4,000.00	\$232,000.00	\$8,068.00	\$467,944.00	\$8,030.00	\$465,740.00
126	632	Signalization Misc.: Traffic Control Center	1 L.S.	\$46,000	\$46,000.00	\$60,000.00	\$60,000.00	\$20,055.00	\$20,055.00	\$38,000.00	\$38,000.00
127	632	Signalization Misc.: Traffic Control Center Hardware	1 L.S.	\$16,000	\$16,000.00	\$16,000.00	\$16,000.00	\$2,165.00	\$2,165.00	\$16,000.00	\$16,000.00
128	632	Signalization Misc.: Traffic Control Center Furniture	1 L.S.	\$7,500.00	\$7,500.00	\$9,500.00	\$9,500.00	\$8,057.00	\$8,057.00	\$7,500.00	\$7,500.00
129	632	Signalization Misc.: Traffic Control Isolation Room	1 L.S.	\$23,000	\$23,000.00	\$60,000.00	\$60,000.00	\$33,288.00	\$33,288.00	\$27,100.00	\$27,100.00
130	633	Controller Unit, Type TS-2/A2 with Cabinet, Type TS-1, 8 Phase, As Per Plan	15 EA.	\$10,500	\$157,500.00	\$8,300.00	\$124,500.00	\$7,055.00	\$105,825.00	\$8,650.00	\$129,750.00
131	633	Controller, Master, Traffic Responsive, As Per Plan	1 EA.	\$10,500	\$10,500.00	\$5,000.00	\$5,000.00	\$5,200.00	\$5,200.00	\$5,925.00	\$5,925.00
132	633	Cabinet Foundation, As Per Plan	14 EA.	\$830.00	\$11,620.00	\$900.00	\$12,600.00	\$925.00	\$12,950.00	\$1,575.00	\$22,050.00
133	633	Remote Monitoring Station, As Per Plan	1 EA.	\$15,000	\$15,000.00	\$19,000.00	\$19,000.00	\$12,750.00	\$12,750.00	\$11,900.00	\$11,900.00
134	633	System Analysis	1 L.S.	\$5,000.00	\$5,000.00	\$35,000.00	\$35,000.00	\$20,000.00	\$20,000.00	\$32,000.00	\$32,000.00
135	633	Training, As Per Plan	1 L.S.	\$5,000.00	\$5,000.00	\$7,500.00	\$7,500.00	\$6,000.00	\$6,000.00	\$7,200.00	\$7,200.00
136	633	Controller Item Misc.: Fiber Optic Transceiver, Single Mode, Controller	15 EA.	\$500.00	\$7,500.00	\$1,350.00	\$20,250.00	\$980.00	\$14,700.00	\$1,000.00	\$15,000.00
137	633	Controller Item Misc.: Fiber Optic Transceiver, Single Mode, Building	15 EA.	\$500.00	\$7,500.00	\$1,900.00	\$28,500.00	\$1,002.00	\$15,030.00	\$1,400.00	\$21,000.00
138	SPEC.	Signalization Equipment <i>MAINTENANCE OF TRAFFIC</i>	1 L.S.	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00
139	614	Law Enforcement Officer with Patrol Car <i>GENERAL</i>	500 HOUR	\$45.00	\$22,500.00	\$45.00	\$22,500.00	\$45.00	\$22,500.00	\$45.00	\$22,500.00
140	614	Maintaining Traffic	1 L.S.	\$10,000	\$10,000.00	\$5,000.00	\$5,000.00	\$100.00	\$100.00	\$51,989.16	\$51,989.16
141	619	Field Office, Type B	12 MONTH	\$1,600.00	\$19,200.00	\$1,500.00	\$18,000.00	\$500.00	\$6,000.00	\$600.00	\$7,200.00
142	623	Construction Layout Stakes	1 L.S.	\$15,000	\$15,000.00	\$10,000.00	\$10,000.00	\$200.00	\$200.00	\$1,200.00	\$1,200.00
143	624	Mobilization	1 L.S.	\$25,000	\$25,000.00	\$5,000.00	\$5,000.00	\$6,495.00	\$6,495.00	\$55,000.00	\$55,000.00

**ALTERNATE #1**

144	632	Signalization Misc.: Video Detection Unit, As Per Plan, Autoscope Solo MVP - Alternate Bid	58 EA.	\$10,500	\$609,000.00	\$12,000.00	\$696,000.00	\$8,068.00	\$467,944.00	\$9,220.00	\$534,760.00
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**ALTERNATE #2**

145	633	Controller Unit, Type TS-2/A2 with Cabinet, Type TS-1, 8 Phase, As Per Plan, Econolite Control Products - Alternate Bid	15 EA.	\$10,500	\$157,500.00	\$10,000.00	\$150,000.00	\$7,095.00	\$106,425.00	\$9,260.00	\$138,900.00
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**ALTERNATE #3**

146	633	Controller, Master, Traffic Responsive, As Per Plan, Econolite Control Products - Alternate Bid	1 EA.	\$10,500	\$10,500.00	\$9,500.00	\$9,500.00	\$5,200.00	\$5,200.00	\$6,680.00	\$6,680.00
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**ALTERNATE #4**

147	633	Controller Item Misc.: Preemption - Alternate Bid	1 L.S.	\$97,500	\$97,500.00	\$110,000.00	\$110,000.00	\$99,970.00	\$99,970.00	\$98,820.00	\$98,820.00
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**ALTERNATE #5**

148	633	Controller Item Misc.: Preemption - Sonem 2000 - Alternate Bid	1 L.S.	\$97,500	\$97,500.00	\$110,000.00	\$110,000.00	\$99,970.00	\$99,970.00	\$98,820.00	\$98,820.00
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TOTAL CONSTRUCTION COSTS				\$3,653,046.47		\$2,687,919.50		\$2,810,978.69		\$3,367,785.00	
+/- ENGINEER'S ESTIMATE						-26.4%		-23.1%		-7.8%	

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	<b><u>ALTERNATE #1</u></b>				
TOTAL CONSTRUCTION COSTS		\$609,000.00	\$696,000.00	\$467,944.00	\$534,760.00
+/- ENGINEER'S ESTIMATE			14.3%	-23.2%	-12.2%
	<b><u>ALTERNATE #2</u></b>				
TOTAL CONSTRUCTION COSTS		\$157,500.00	\$150,000.00	\$106,425.00	\$138,900.00
+/- ENGINEER'S ESTIMATE			-4.8%	-32.4%	-11.8%
	<b><u>ALTERNATE #3</u></b>				
TOTAL CONSTRUCTION COSTS		\$10,500.00	\$9,500.00	\$5,200.00	\$6,680.00
+/- ENGINEER'S ESTIMATE			-9.5%	-50.5%	-36.4%
	<b><u>ALTERNATE #4</u></b>				
TOTAL CONSTRUCTION COSTS		\$97,500.00	\$110,000.00	\$99,970.00	\$98,820.00
+/- ENGINEER'S ESTIMATE			12.8%	2.5%	1.4%
	<b><u>ALTERNATE #5</u></b>				
TOTAL CONSTRUCTION COSTS		\$97,500.00	\$110,000.00	\$99,970.00	\$98,820.00
+/- ENGINEER'S ESTIMATE			12.8%	2.5%	1.4%

\* Reference numbers 15 and 114 - change initialed but not dated; reference number 26 - extended amount incorrect in bid book; amount of bid bond not filled in.

\*\* Reference number 81 - extended amount incorrect in bid book; Independent Contractor Acknowledgement not signed.

\*\*\* Reference number 71 - change initialed but not dated; Certification of nonsegregated facilities not signed; DBE Data Sheet I not completed.

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		***4. Thompson Electric, Inc.	
					PRICE	AMOUNT	PRICE	AMOUNT
1	103.05	Contract Performance Bond	1	L.S.	\$71,500.00	\$71,500.00	\$22,500.00	\$22,500.00
<b>PART 1 - RESURFACING</b>								
<i>ROADWAY</i>								
2	202	Curb Removed	1,500	FT.	\$3.00	\$4,500.00	\$3.00	\$4,500.00
3	204	Excavation of Subgrade	800	C.Y.	\$9.00	\$7,200.00	\$5.00	\$4,000.00
4	204	Granular Embankment	800	C.Y.	\$16.50	\$13,200.00	\$15.00	\$12,000.00
<i>DRAINAGE</i>								
5	604	Catch Basin Frame and Grate (Castings Provided By City)	10	EA.	\$325.00	\$3,250.00	\$260.00	\$2,600.00
6	604	Manhole Frame and Cover (Castings Provided By City)	10	EA.	\$350.00	\$3,500.00	\$260.00	\$2,600.00
7	604	Manhole Adjusted to Grade	95	EA.	\$350.00	\$33,250.00	\$125.00	\$11,875.00
8	604	Monument Box Adjusted to Grade	20	EA.	\$250.00	\$5,000.00	\$45.00	\$900.00
<i>PAVEMENT</i>								
9	253	Pavement Repair	4960	S.Y.	\$26.00	\$128,960.00	\$20.00	\$99,200.00
10	254	Pavement Planing, Asphalt Concrete	104184	S.Y.	\$1.50	\$156,276.00	\$2.00	\$208,368.00
11	254	Patching Planed Surface	2000	S.Y.	\$1.50	\$3,000.00	\$1.50	\$3,000.00
12	407	Tack Coat	7474	GAL.	\$0.85	\$6,352.90	\$0.50	\$3,737.00
13	407	Tack Coat for Intermediate Course	3587	GAL.	\$0.90	\$3,228.30	\$0.50	\$1,793.50
14	446	Asphalt Concrete Intermediate Course, Type 2, PG64-28	4353	C.Y.	\$82.00	\$356,946.00	\$69.00	\$300,357.00
15	446	Asphalt Concrete Surface Course, Type 1H	4168	C.Y.	\$86.00	\$358,448.00	\$93.00	\$387,624.00
16	609	Curb Misc.: Curb, 12"X18" for Header, Akron Specifications	151	FT.	\$35.00	\$5,285.00	\$20.00	\$3,020.00
17	609	Curb Misc.: Curb, 6"X18", Akron Specifications	1500	FT.	\$12.00	\$18,000.00	\$17.00	\$25,500.00
<i>WATER WORK</i>								
18	638	Valve Box	10	EA.	\$300.00	\$3,000.00	\$300.00	\$3,000.00
19	638	Valve Box Adjusted to Grade	89	EA.	\$160.00	\$14,240.00	\$40.00	\$3,560.00
<i>TRAFFIC CONTROL</i>								
20	642	Edge Line, Type 1	0.22	MILE	\$1,500.00	\$330.00	\$820.00	\$180.40
21	642	Lane Line, Type 1	5.65	MILE	\$1,025.00	\$5,791.25	\$575.00	\$3,248.75
22	642	Center Line, Type 1	3.98	MILE	\$2,025.00	\$8,059.50	\$1,230.00	\$4,895.40
23	644	Channelizing Line	1974	FT.	\$1.50	\$2,961.00	\$1.60	\$3,158.40
24	644	Stop Line	1376	FT.	\$7.00	\$9,632.00	\$6.40	\$8,806.40
25	644	Crosswalk Line	5389	FT.	\$2.50	\$13,472.50	\$2.90	\$15,628.10
26	644	Transverse Line	813	FT.	\$4.00	\$3,252.00	\$5.25	\$4,268.25
27	644	Island Marking	215	S.F.	\$3.00	\$645.00	\$3.30	\$709.50
28	644	Lane Arrow	62	EA.	\$80.00	\$4,960.00	\$80.30	\$4,978.60
29	644	Word On Pavement, 72"	20	EA.	\$100.00	\$2,000.00	\$101.00	\$2,020.00
30	646	Stop Line	57	FT.	\$9.00	\$513.00	\$43.00	\$2,451.00
31	646	Crosswalk Line	269	FT.	\$4.00	\$1,076.00	\$16.50	\$4,438.50

		<i>MAINTENANCE OF TRAFFIC</i>					
32	614	Law Enforcement Officer with Patrol Car	200 HOUR	\$45.00	\$9,000.00	\$45.00	\$9,000.00
33	614	Work Zone Marking Sign	6 EA.	\$85.00	\$510.00	\$500.00	\$3,000.00
34	614	Asphalt Concrete for Maintaining Traffic	200 C.Y.	\$100.00	\$20,000.00	\$100.00	\$20,000.00
35	614	Work Zone Lane Line, Class II	16.98 MILE	\$400.00	\$6,792.00	\$600.00	\$10,188.00
36	614	Work Zone Center Line, Class II	11.94 MILE	\$700.00	\$8,358.00	\$600.00	\$7,164.00
37	614	Work Zone Channelizing Line, Class II	5922 FT.	\$0.60	\$3,553.20	\$0.75	\$4,441.50
38	614	Work Zone Stop Line, Class I	5754 FT.	\$3.50	\$20,139.00	\$2.00	\$11,508.00
		<i>GENERAL</i>					
39	614	Maintaining Traffic	1 L.S.	\$20,000	\$20,000.00	\$44,290.00	\$44,290.00
40	619	Field Office, Type B	3 MONTH	\$1,600.00	\$4,800.00	\$550.00	\$1,650.00
41	623	Construction Layout Stakes	1 L.S.	\$5,000.00	\$5,000.00	\$3,200.00	\$3,200.00
42	624	Mobilization	1 L.S.	\$20,000	\$20,000.00	\$12,600.00	\$12,600.00
43	Special	Computer Equipment	1 L.S.	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00
		<b>PART 2 - SIGNALIZATION</b>					
		<i>ROADWAY</i>					
44	202	Walk Removed	11847 S.F.	\$1.00	\$11,847.00	\$1.00	\$11,847.00
45	202	Curb Removed	550 FT.	\$3.00	\$1,650.00	\$3.00	\$1,650.00
46	202	Curb & Gutter Removed	95 FT.	\$3.50	\$332.50	\$3.00	\$285.00
47	202	Pull Box Removed	7 EA.	\$95.00	\$665.00	\$170.00	\$1,190.00
48	608	6" Concrete Walk	11775 S.F.	\$4.50	\$52,987.50	\$3.75	\$44,156.25
49	608	Curb Ramp	31 EA.	\$445.00	\$13,795.00	\$975.00	\$30,225.00
50	690	Special - Work Involving Solid Waste	12 TON	\$350.00	\$4,200.00	\$120.00	\$1,440.00
		<i>PAVEMENT</i>					
51	609	Curb Misc.: Combination Curb and Gutter, Akron Specifications	95 FT.	\$23.00	\$2,185.00	\$20.00	\$1,900.00
52	609	Curb Misc.: Curb, 6"x18", Akron Specifications	550 FT.	\$11.25	\$6,187.50	\$17.00	\$9,350.00
		<i>TRAFFIC CONTROL</i>					
53	630	Sign Attachment Assembly	104 EA.	\$245.00	\$25,480.00	\$140.00	\$14,560.00
54	630	Sign, Flat Sheet, Type G	359 S.F.	\$11.00	\$3,949.00	\$29.25	\$10,500.75
		<i>LIGHTING</i>					
55	625	Connector Kit, Type III	24 EA.	\$60.00	\$1,440.00	\$55.00	\$1,320.00
56	625	Cable Splicing Kit	24 EA.	\$62.00	\$1,488.00	\$60.00	\$1,440.00
57	625	Bracket Arm, 6'	3 EA.	\$475.00	\$1,425.00	\$273.00	\$819.00
58	625	Bracket Arm, 10'	14 EA.	\$550.00	\$7,700.00	\$307.00	\$4,298.00
59	625	Bracket Arm, 20'	7 EA.	\$645.00	\$4,515.00	\$566.00	\$3,962.00
60	625	No. 4 AWG 600 Volt Distribution Cable	3980 FT.	\$1.50	\$5,970.00	\$1.80	\$7,164.00
61	625	No. 10 AWG Pole and Bracket Cable	1152 FT.	\$1.50	\$1,728.00	\$0.70	\$806.40
62	625	Luminaire, Conventional, As Per Plan	24 EA.	\$275.00	\$6,600.00	\$260.00	\$6,240.00
63	625	Power Service, As Per Plan	24 EA.	\$2,500.00	\$60,000.00	\$975.00	\$23,400.00
		<i>TRAFFIC SIGNAL</i>					
64	625	Conduit, 2", 725.04	653 FT.	\$7.00	\$4,571.00	\$15.10	\$9,860.30
65	625	Conduit, 3", 725.04	3381 FT.	\$10.00	\$33,810.00	\$24.45	\$82,665.45
66	625	Conduit, 4", 725.04	35 FT.	\$13.00	\$455.00	\$66.65	\$2,332.75
67	625	Trench, As Per Plan	1897 FT.	\$4.25	\$8,062.25	\$14.00	\$26,558.00
68	625	Trench in Paved Area, Type B, As Per Plan	1588 FT.	\$28.50	\$45,258.00	\$99.00	\$157,212.00
69	625	Trench Misc.: Trench for Fiber Optic Cable	170 FT.	\$5.25	\$892.50	\$99.00	\$16,830.00
70	625	Pull Box Misc.: Pull Box, 725.07, 24"x36"x26"	51 EA.	\$1,280.00	\$65,280.00	\$594.00	\$30,294.00

71	625	Ground Rod, As Per Plan	53 EA.	\$131.00	\$6,943.00	\$95.00	\$5,035.00
72	625	Plastic Caution Tape	3485 FT.	\$0.50	\$1,742.50	\$0.45	\$1,568.25
73	632	Conduit Riser, 2" Diameter	21 EA.	\$240.00	\$5,040.00	\$250.00	\$5,250.00
74	632	Conduit Riser, 3" Diameter	5 EA.	\$500.00	\$2,500.00	\$350.00	\$1,750.00
75	632	Vehicular Signal Head, 3 Section, 12" Lens, 1 Way, Polycarbonate, As Per Plan	81 EA.	\$700.00	\$56,700.00	\$645.00	\$52,245.00
76	632	Vehicular Signal Head, 5 Section, 12" Lens, 1 Way, Polycarbonate, As Per Plan	10 EA.	\$1,000.00	\$10,000.00	\$1,040.00	\$10,400.00
77	632	Relamp Existing Signal Section with LED Lamp Unit, Circular Red, As Per Plan	37 EA.	\$200.00	\$7,400.00	\$86.00	\$3,182.00
78	632	Relamp Existing Signal Section with LED Lamp Unit, Circular Yellow, As Per Plan	37 EA.	\$200.00	\$7,400.00	\$93.00	\$3,441.00
79	632	Relamp Existing Signal Section with LED Lamp Unit, Circular Green, As Per Plan	37 EA.	\$200.00	\$7,400.00	\$147.00	\$5,439.00
80	632	Relamp Existing Signal Section with LED Lamp Unit, Circular Yellow Arrow, As Per Plan	8 EA.	\$200.00	\$1,600.00	\$90.00	\$720.00
81	632	Relamp Existing Signal Section with LED Lamp Unit, Circular Green Arrow, As Per Plan	8 EA.	\$200.00	\$1,600.00	\$121.00	\$968.00
82	632	Pedestrian Signal Head, Type D2, As Per Plan	94 EA.	\$485.00	\$45,590.00	\$420.00	\$39,480.00
83	632	Covering of Vehicular Signal Head	122 EA.	\$17.25	\$2,104.50	\$30.00	\$3,660.00
84	632	Covering of Pedestrian Signal Head	94 EA.	\$16.00	\$1,504.00	\$20.00	\$1,880.00
85	632	Pedestrian Push Button	94 EA.	\$130.00	\$12,220.00	\$105.00	\$9,870.00
86	632	Detector Loop	2 EA.	\$930.00	\$1,860.00	\$650.00	\$1,300.00
87	632	Loop Detector Unit, As Per Plan	2 EA.	\$255.00	\$510.00	\$160.00	\$320.00
88	632	Signal Cable, 7 Conductor, No. 14 AWG.	25070 FT.	\$1.75	\$43,872.50	\$1.25	\$31,337.50
89	632	Interconnect Misc.: Drop Cable 6 Fiber	779 FT.	\$3.50	\$2,726.50	\$3.40	\$2,648.60
90	632	Interconnect Misc.: Trunk Cable, 24 Fiber, Loose Tube, Single Mode	21154 FT.	\$8.00	\$169,232.00	\$5.15	\$108,943.10
91	632	Interconnect Misc.: Fan Out Kit, 6 Fiber	15 EA.	\$176.00	\$2,640.00	\$120.00	\$1,800.00
92	632	Interconnect Misc.: Fiber Optic Patch Cord, 4 Fiber	15 EA.	\$128.00	\$1,920.00	\$76.00	\$1,140.00
93	632	Interconnect Misc.: Termination Panel, Controller Cabinet	15 EA.	\$1,500.00	\$22,500.00	\$173.00	\$2,595.00
94	632	Interconnect Misc.: Termination Panel, Building	2 EA.	\$2,500.00	\$5,000.00	\$84.00	\$168.00
95	632	Interconnect Misc.: Fusion Splice	114 EA.	\$1,052.63	\$119,999.82	\$21.00	\$2,394.00
96	632	Interconnect Misc.: Splice Enclosure, Aerial	9 EA.	\$593.75	\$5,343.75	\$515.00	\$4,635.00
97	632	Interconnect Misc.: Splice Enclosure, Under Grade	7 EA.	\$593.75	\$4,156.25	\$515.00	\$3,605.00
98	632	Interconnect Misc.: Fusion Splicer	1 EA.	\$14,000	\$14,000.00	\$6,990.00	\$6,990.00
99	632	Interconnect Misc.: Cleave Tool	1 EA.	\$2,000.00	\$2,000.00	\$1,400.00	\$1,400.00
100	632	Interconnect Misc.: Fiber Optic Termination Tool Kit	1 EA.	\$3,000.00	\$3,000.00	\$1,765.00	\$1,765.00
101	632	Interconnect Misc.: Optical Time Domain Reflectometer	1 EA.	\$15,000	\$15,000.00	\$8,800.00	\$8,800.00
102	632	Interconnect Misc.: Fiber Optic Cable Testing	1 L.S.	\$6,000.00	\$6,000.00	\$1,860.00	\$1,860.00
103	632	Interconnect Misc.: Fiber Optic Training Plan	1 L.S.	\$5,000.00	\$5,000.00	\$5,250.00	\$5,250.00
104	632	Signal Support Foundation, As Per Plan	28 EA.	\$1,920.00	\$53,760.00	\$1,096.00	\$30,688.00
105	632	Pedestal Foundation, As Per Plan	14 EA.	\$530.00	\$7,420.00	\$350.00	\$4,900.00
106	632	Loop Detector Lead-In Cable	464 FT.	\$1.25	\$580.00	\$1.05	\$487.20
107	632	Power Cable, 3 Conductor, No. 8 AWG	1119 FT.	\$2.25	\$2,517.75	\$1.80	\$2,014.20
108	632	Power Service, As Per Plan	15 EA.	\$1,100.00	\$16,500.00	\$975.00	\$14,625.00
109	632	Signal Support, Type TC-81.20, Design 2	1 EA.	\$3,300.00	\$3,300.00	\$3,070.00	\$3,070.00

110	632	Signal Support, Type TC-81.20, Design 3	1 EA.	\$3,500.00	\$3,500.00	\$3,282.00	\$3,282.00
111	632	Signal Support, Type TC-81.20, Design 11	2 EA.	\$6,600.00	\$13,200.00	\$5,900.00	\$11,800.00
112	632	Signal Support, Type TC-81.20, Design 12	1 EA.	\$7,600.00	\$7,600.00	\$6,560.00	\$6,560.00
113	632	Combination Signal Support, Type TC-12.30, Design 5	1 EA.	\$8,000.00	\$8,000.00	\$9,632.00	\$9,632.00
114	632	Combination Signal Support, Type TC-12.30, Design 6	2 EA.	\$8,500.00	\$17,000.00	\$10,718.00	\$21,436.00
115	632	Combination Signal Support, Type TC-81.20, Design 2	3 EA.	\$3,500.00	\$10,500.00	\$3,346.00	\$10,038.00
116	632	Combination Signal Support, Type TC-81.20, Design 3	7 EA.	\$3,700.00	\$25,900.00	\$3,377.00	\$23,639.00
117	632	Combination Signal Support, Type TC-81.20, Design 4	3 EA.	\$4,150.00	\$12,450.00	\$4,960.00	\$14,880.00
118	632	Combination Signal Support, Type TC-81.20, Design 11	3 EA.	\$6,800.00	\$20,400.00	\$6,463.00	\$19,389.00
119	632	Combination Signal Support, Type TC-81.20, Design 12	4 EA.	\$7,800.00	\$31,200.00	\$7,609.00	\$30,436.00
120	632	Pedestal, 8'	14 EA.	\$585.00	\$8,190.00	\$555.00	\$7,770.00
121	632	Removal of Pedestrian Signal Head and Storage	47 EA.	\$250.00	\$11,750.00	\$115.00	\$5,405.00
122	632	Removal of Pedestrian Pushbutton and Storage	47 EA.	\$250.00	\$11,750.00	\$55.00	\$2,585.00
123	632	Removal of Controller and Storage	15 EA.	\$250.00	\$3,750.00	\$460.00	\$6,900.00
124	632	Removal of Traffic Signal Installation, As Per Plan	12 EA.	\$2,000.00	\$24,000.00	\$1,695.00	\$20,340.00
125	632	Signalization Misc.: Video Detection Unit, As Per Plan	58 EA.	\$10,500	\$609,000.00	\$8,810.00	\$510,980.00
126	632	Signalization Misc.: Traffic Control Center	1 L.S.	\$46,000	\$46,000.00	\$51,027.00	\$51,027.00
127	632	Signalization Misc.: Traffic Control Center Hardware	1 L.S.	\$16,000	\$16,000.00	\$18,050.00	\$18,050.00
128	632	Signalization Misc.: Traffic Control Center Furniture	1 L.S.	\$7,500.00	\$7,500.00	\$14,000.00	\$14,000.00
129	632	Signalization Misc.: Traffic Control Isolation Room	1 L.S.	\$23,000	\$23,000.00	\$45,600.00	\$45,600.00
130	633	Controller Unit, Type TS-2/A2 with Cabinet, Type TS-1, 8 Phase, As Per Plan	15 EA.	\$10,500	\$157,500.00	\$8,705.00	\$130,575.00
131	633	Controller, Master, Traffic Responsive, As Per Plan	1 EA.	\$10,500	\$10,500.00	\$6,175.00	\$6,175.00
132	633	Cabinet Foundation, As Per Plan	14 EA.	\$830.00	\$11,620.00	\$1,235.00	\$17,290.00
133	633	Remote Monitoring Station, As Per Plan	1 EA.	\$15,000	\$15,000.00	\$14,480.00	\$14,480.00
134	633	System Analysis	1 L.S.	\$5,000.00	\$5,000.00	\$41,250.00	\$41,250.00
135	633	Training, As Per Plan	1 L.S.	\$5,000.00	\$5,000.00	\$6,600.00	\$6,600.00
136	633	Controller Item Misc.: Fiber Optic Transceiver, Single Mode, Controller	15 EA.	\$500.00	\$7,500.00	\$1,135.00	\$17,025.00
137	633	Controller Item Misc.: Fiber Optic Transceiver, Single Mode, Building	15 EA.	\$500.00	\$7,500.00	\$1,135.00	\$17,025.00
138	SPEC.	Signalization Equipment <i>MAINTENANCE OF TRAFFIC</i>	1 L.S.	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00
139	614	Law Enforcement Officer with Patrol Car <i>GENERAL</i>	500 HOUR	\$45.00	\$22,500.00	\$45.00	\$22,500.00
140	614	Maintaining Traffic	1 L.S.	\$10,000	\$10,000.00	\$20,000.00	\$20,000.00
141	619	Field Office, Type B	12 MONTH	\$1,600.00	\$19,200.00	\$400.00	\$4,800.00
142	623	Construction Layout Stakes	1 L.S.	\$15,000	\$15,000.00	\$50,000.00	\$50,000.00
143	624	Mobilization	1 L.S.	\$25,000	\$25,000.00	\$187,400.00	\$187,400.00

**ALTERNATE #1**

144	632	Signalization Misc.: Video Detection Unit, As Per Plan, Autoscope Solo MVP - Alternate Bid	58 EA.	\$10,500	\$609,000.00	\$8,810.00	\$510,980.00
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**ALTERNATE #2**

145	633	Controller Unit, Type TS-2/A2 with Cabinet, Type TS-1, 8 Phase, As Per Plan, Econolite Control Products - Alternate Bid	15 EA.	\$10,500	\$157,500.00	\$8,705.00	\$130,575.00
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**ALTERNATE #3**

146	633	Controller, Master, Traffic Responsive, As Per Plan, Econolite Control Products - Alternate Bid	1 EA.	\$10,500	\$10,500.00	\$6,175.00	\$6,175.00
<b><u>ALTERNATE #4</u></b>							
147	633	Controller Item Misc.: Preemption - Alternate Bid	1 L.S.	\$97,500	\$97,500.00	\$105,470.00	\$105,470.00
<b><u>ALTERNATE #5</u></b>							
148	633	Controller Item Misc.: Preemption - Sonem 2000 - Alternate Bid	1 L.S.	\$97,500	\$97,500.00	\$105,470.00	\$105,470.00

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TOTAL CONSTRUCTION COSTS				\$3,653,046.47		\$3,554,758.05	
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+/- ENGINEER'S ESTIMATE							-2.7%
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	<b><u>ALTERNATE #1</u></b>		
TOTAL CONSTRUCTION COSTS		\$609,000.00	\$510,980.00
+/- ENGINEER'S ESTIMATE			-16.1%
	<b><u>ALTERNATE #2</u></b>		
TOTAL CONSTRUCTION COSTS		\$157,500.00	\$130,575.00
+/- ENGINEER'S ESTIMATE			-17.1%
	<b><u>ALTERNATE #3</u></b>		
TOTAL CONSTRUCTION COSTS		\$10,500.00	\$6,175.00
+/- ENGINEER'S ESTIMATE			-41.2%
	<b><u>ALTERNATE #4</u></b>		
TOTAL CONSTRUCTION COSTS		\$97,500.00	\$105,470.00
+/- ENGINEER'S ESTIMATE			8.2%
	<b><u>ALTERNATE #5</u></b>		
TOTAL CONSTRUCTION COSTS		\$97,500.00	\$105,470.00
+/- ENGINEER'S ESTIMATE			8.2%