

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		1. Kenmore Construction Co.		2. Liberta Construction Co.		3. Karvo Paving	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
ROADWAY												
1	201	Clearing and Grubbing	1	L.S.	\$7,000.00	\$7,000.00	\$5,000.00	\$5,000.00	\$3,200.00	\$3,200.00	\$2,950.00	\$2,950.00
2	202	Pavement Removed	16,130	S.Y.	\$7.00	\$112,910.00	\$7.00	\$112,910.00	\$9.00	\$145,170.00	\$7.50	\$120,975.00
3	202	Curb Removed	7,073	L.F.	\$3.00	\$21,219.00	\$1.00	\$7,073.00	\$1.00	\$7,073.00	\$3.00	\$21,219.00
4	202	Pipe Removed, 12 Inch	1,135	L.F.	\$9.00	\$10,215.00	\$4.00	\$4,540.00	\$3.00	\$3,405.00	\$13.00	\$14,755.00
5	202	Sanitary Pipe Removed	437	L.F.	\$12.00	\$5,244.00	\$4.00	\$1,748.00	\$0.01	\$4.37	\$9.00	\$3,933.00
6	202	Pipe Abandoned	192	L.F.	\$6.00	\$1,152.00	\$5.00	\$960.00	\$5.00	\$960.00	\$12.00	\$2,304.00
7	202	Guardrail Removed	441	L.F.	\$4.00	\$1,764.00	\$1.00	\$441.00	\$2.00	\$882.00	\$1.50	\$661.50
8	202	Catch Basin or Inlet Removed	28	EACH	\$200.00	\$5,600.00	\$100.00	\$2,800.00	\$50.00	\$1,400.00	\$170.00	\$4,760.00
9	202	Manhole Removed	2	EACH	\$430.00	\$860.00	\$500.00	\$1,000.00	\$300.00	\$600.00	\$400.00	\$800.00
10	202	Light Pole Removed	2	EACH	\$250.00	\$500.00	\$100.00	\$200.00	\$1.00	\$2.00	\$185.00	\$370.00
11	202	Pull Box Removed	5	EACH	\$125.00	\$625.00	\$100.00	\$500.00	\$1.00	\$5.00	\$125.00	\$625.00
12	202	Removal Misc.: Steel Poles	7	EACH	\$20.00	\$140.00	\$20.00	\$140.00	\$1.00	\$7.00	\$34.00	\$238.00
13	202	Removal Misc.: Post	11	EACH	\$20.00	\$220.00	\$25.00	\$275.00	\$1.00	\$11.00	\$43.00	\$473.00
14	202	Removal Misc.: Railroad Tie	8	EACH	\$10.00	\$80.00	\$10.00	\$80.00	\$1.00	\$8.00	\$15.00	\$120.00
15	202	Removal Misc.: Commercial Sign	9	EACH	\$150.00	\$1,350.00	\$250.00	\$2,250.00	\$25.00	\$225.00	\$150.00	\$1,350.00
16	202	Removal Misc.: Concrete Sign Base	3	EACH	\$50.00	\$150.00	\$100.00	\$300.00	\$100.00	\$300.00	\$250.00	\$750.00
17	202	Removal Misc.: Parking Block	5	EACH	\$10.00	\$50.00	\$5.00	\$25.00	\$1.00	\$5.00	\$12.00	\$60.00
18	202	Removal Misc.: Planter	4	EACH	\$50.00	\$200.00	\$1.00	\$4.00	\$1.00	\$4.00	\$450.00	\$1,800.00
19	202	Wall Removed	96	L.F.	\$25.00	\$2,400.00	\$10.00	\$960.00	\$4.00	\$384.00	\$20.00	\$1,920.00
20	202	Fence Removed For Reuse Or Storage	266	L.F.	\$4.00	\$1,064.00	\$5.00	\$1,330.00	\$8.00	\$2,128.00	\$2.25	\$598.50
21	202	Steps Removed	99	L.F.	\$12.00	\$1,188.00	\$2.00	\$198.00	\$15.00	\$1,485.00	\$23.00	\$2,277.00
22	202	Regulated Underground Storage Tank Removed	3	EACH	\$5,000.00	\$15,000.00	\$5,000.00	\$15,000.00	\$50.00	\$150.00	\$3,000.00	\$9,000.00
23	203	Excavation Not Including Embankment Construction	10,661	C.Y.	\$10.00	\$106,610.00	\$2.00	\$21,322.00	\$3.00	\$31,983.00	\$5.00	\$53,305.00
24	203	Embankment	771	C.Y.	\$8.00	\$6,168.00	\$15.00	\$11,565.00	\$10.00	\$7,710.00	\$12.00	\$9,252.00
25	203	Subgrade Compaction	20,101	S.Y.	\$1.00	\$20,101.00	\$1.00	\$20,101.00	\$0.01	\$201.01	\$0.65	\$13,065.65
26	203	Proof Rolling	9	HOUR	\$90.00	\$810.00	\$100.00	\$900.00	\$1.00	\$9.00	\$125.00	\$1,125.00
27	456	Concrete Walk, 4" Thick	624	S.F.	\$3.00	\$1,872.00	\$5.00	\$3,120.00	\$3.90	\$2,433.60	\$5.50	\$3,432.00
28	456	Concrete Walk, 6" Thick	38,381	S.F.	\$4.00	\$153,524.00	\$4.50	\$172,714.50	\$4.00	\$153,524.00	\$4.00	\$153,524.00
29	456	Concrete Steps	210	L.F.	\$80.00	\$16,800.00	\$40.00	\$8,400.00	\$65.00	\$13,650.00	\$80.00	\$16,800.00
30	456	Curb Ramp	23	EACH	\$300.00	\$6,900.00	\$250.00	\$5,750.00	\$200.00	\$4,600.00	\$200.00	\$4,600.00
31	460	Brick Walk on 6" Concrete	9,832	S.F.	\$11.00	\$108,152.00	\$10.00	\$98,320.00	\$14.00	\$137,648.00	\$15.00	\$147,480.00
32	604	Monitoring Well Adjusted (ODOT Spec)	1	EACH	\$150.00	\$150.00	\$100.00	\$100.00	\$25.00	\$25.00	\$300.00	\$300.00
33	606	Guardrail, Type 5	375	L.F.	\$20.00	\$7,500.00	\$14.00	\$5,250.00	\$15.20	\$5,700.00	\$15.20	\$5,700.00
34	606	Anchor Assembly, Type E-98	2	EACH	\$1,000.00	\$2,000.00	\$1,600.00	\$3,200.00	\$1,945.00	\$3,890.00	\$1,945.00	\$3,890.00
35	607	Fence, Type CL, 72 Inch	53	L.F.	\$17.00	\$901.00	\$22.00	\$1,166.00	\$25.50	\$1,351.50	\$25.50	\$1,351.50
36	622	Monument Boxes	9	EACH	\$480.00	\$4,320.00	\$400.00	\$3,600.00	\$375.00	\$3,375.00	\$385.00	\$3,465.00
37	SPEC	Work Involving Non-Regulated Materials	100	TON	\$47.00	\$4,700.00	\$50.00	\$5,000.00	\$20.00	\$2,000.00	\$27.50	\$2,750.00
38	SPEC	Work Involving Petroleum Contaminated Soils	100	TON	\$68.00	\$6,800.00	\$50.00	\$5,000.00	\$20.00	\$2,000.00	\$27.50	\$2,750.00

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					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
39	SPEC	Work Involving Water	500	GAL	\$3.00	\$1,500.00	\$2.00	\$1,000.00	\$0.10	\$50.00	\$0.50	\$250.00
40	SPEC	Work Involving Regulated Water	500	GAL	\$8.00	\$4,000.00	\$5.00	\$2,500.00	\$0.10	\$50.00	\$0.50	\$250.00
EROSION CONTROL												
41	653	Topsoil Furnished & Placed, 4 Inch Thick	3,646	S.Y.	\$3.50	\$12,761.00	\$3.00	\$10,938.00	\$1.90	\$6,927.40	\$3.50	\$12,761.00
42	659	Lawn Seeding and Mulching	3,646	S.Y.	\$1.50	\$5,469.00	\$1.00	\$3,646.00	\$0.85	\$3,099.10	\$1.30	\$4,739.80
43	659	Soil Analysis Test (ODOT Spec)	2	EACH	\$55.00	\$110.00	\$50.00	\$100.00	\$10.00	\$20.00	\$50.00	\$100.00
44	659	Repair Seeding And Mulching (ODOT Spec)	182	S.Y.	\$1.00	\$182.00	\$1.00	\$182.00	\$0.01	\$1.82	\$0.50	\$91.00
45	659	Inter-Seeding (ODOT Spec)	182	S.Y.	\$1.00	\$182.00	\$1.00	\$182.00	\$0.01	\$1.82	\$0.50	\$91.00
46	659	Lime (ODOT Spec)	1	AC.	\$100.00	\$100.00	\$50.00	\$50.00	\$5.00	\$5.00	\$40.00	\$40.00
47	659	Commercial Fertilizer (ODOT Spec)	1	TON	\$320.00	\$320.00	\$700.00	\$700.00	\$5.00	\$5.00	\$900.00	\$900.00
48	659	Water	20	M. GAL	\$1.00	\$20.00	\$10.00	\$200.00	\$1.00	\$20.00	\$30.00	\$600.00
49	832	Erosion Control (ODOT Spec)	30,369	EACH	\$1.00	\$30,369.00	\$1.00	\$30,369.00	\$1.00	\$30,369.00	\$1.00	\$30,369.00
50	832	Storm Water Pollution Prevention Plan (ODOT Spec)	1	LUMP	\$6,500.00	\$6,500.00	\$5,000.00	\$5,000.00	\$2,535.00	\$2,535.00	\$10,000.00	\$10,000.00
51	835	Exfiltration Trench, Type A (ODOT Spec)	108	L.F.	\$99.00	\$10,692.00	\$75.00	\$8,100.00	\$67.00	\$7,236.00	\$70.00	\$7,560.00
52	835	Exfiltration Trench, Type C (ODOT Spec)	16	L.F.	\$153.00	\$2,448.00	\$80.00	\$1,280.00	\$67.00	\$1,072.00	\$70.00	\$1,120.00
DRAINAGE												
53	254	12" Storm Sewer Ductile Iron Pipe, As Per Plan	119	L.F.	\$52.00	\$6,188.00	\$120.00	\$14,280.00	\$160.00	\$19,040.00	\$168.00	\$19,992.00
54	552	4" Storm Sewer, Type B, Class "B" Bedding (for Underdrain	310	L.F.	\$12.00	\$3,720.00	\$12.00	\$3,720.00	\$5.00	\$1,550.00	\$17.00	\$5,270.00
55	552	6" Storm Sewer, Type B, Class "B" Bedding	10	L.F.	\$15.00	\$150.00	\$2.00	\$20.00	\$12.00	\$120.00	\$33.00	\$330.00
56	552	8" Storm Sewer, Type B, Class "B" Bedding	15	L.F.	\$20.00	\$300.00	\$2.00	\$30.00	\$15.00	\$225.00	\$40.00	\$600.00
57	552	12" Storm Sewer, Type A, Class "B" Bedding	318	L.F.	\$45.00	\$14,310.00	\$45.00	\$14,310.00	\$69.00	\$21,942.00	\$44.00	\$13,992.00
58	553	12" Inlet Connection, Type A, Class "B" Bedding	848	L.F.	\$42.00	\$35,616.00	\$45.00	\$38,160.00	\$52.00	\$44,096.00	\$50.00	\$42,400.00
59	553	12" Inlet Connection, Ductile Iron Pipe	626	L.F.	\$52.00	\$32,552.00	\$55.00	\$34,430.00	\$77.00	\$48,202.00	\$74.00	\$46,324.00
60	556	House Drain Pipe, Complete	48	EACH	\$30.00	\$1,440.00	\$1.00	\$48.00	\$1.00	\$48.00	\$48.00	\$2,304.00
61	562	Manhole MH-2A on 12" Storm Sewer	4	EACH	\$3,000.00	\$12,000.00	\$3,000.00	\$12,000.00	\$2,800.00	\$11,200.00	\$2,400.00	\$9,600.00
62	562	Manhole MH-2A Slab Top on 12" Storm Sewer	5	EACH	\$3,000.00	\$15,000.00	\$2,000.00	\$10,000.00	\$2,000.00	\$10,000.00	\$2,300.00	\$11,500.00
63	562	Manhole MH-2B on 20" Storm Sewer	1	EACH	\$3,200.00	\$3,200.00	\$2,500.00	\$2,500.00	\$4,000.00	\$4,000.00	\$4,500.00	\$4,500.00
64	562	Brick Manhole Adjusted	10	EACH	\$360.00	\$3,600.00	\$250.00	\$2,500.00	\$250.00	\$2,500.00	\$425.00	\$4,250.00
65	562	Brick Manhole Rebuilt	2	EACH	\$450.00	\$900.00	\$1,000.00	\$2,000.00	\$500.00	\$1,000.00	\$700.00	\$1,400.00
66	563	Catch Basin Adjusted	2	EACH	\$310.00	\$620.00	\$200.00	\$400.00	\$350.00	\$700.00	\$300.00	\$600.00
67	563	Inlet, No. 3	1	EACH	\$1,200.00	\$1,200.00	\$1,300.00	\$1,300.00	\$1,700.00	\$1,700.00	\$2,000.00	\$2,000.00
68	563	Inlet, No. 5	5	EACH	\$1,300.00	\$6,500.00	\$1,400.00	\$7,000.00	\$1,300.00	\$6,500.00	\$1,700.00	\$8,500.00
69	563	Inlet, No. 5, Modified	11	EACH	\$1,300.00	\$14,300.00	\$1,400.00	\$15,400.00	\$1,300.00	\$14,300.00	\$1,700.00	\$18,700.00
70	563	Inlet, Double No. 5	4	EACH	\$2,400.00	\$9,600.00	\$1,800.00	\$7,200.00	\$1,700.00	\$6,800.00	\$2,100.00	\$8,400.00
71	563	Inlet, Double No. 5, Modified	18	EACH	\$2,400.00	\$43,200.00	\$1,800.00	\$32,400.00	\$1,700.00	\$30,600.00	\$2,100.00	\$37,800.00
72	564	4" Pipe Underdrains	5,179	L.F.	\$5.50	\$28,484.50	\$3.50	\$18,126.50	\$3.00	\$15,537.00	\$4.00	\$20,716.00
73	Spec	Miscellaneous Metal	4,700	POUNDS	\$1.00	\$4,700.00	\$0.50	\$2,350.00	\$0.90	\$4,230.00	\$0.85	\$3,995.00
PAVEMENT												
74	301	4 1/4" Bituminous Aggregate Base (Driveways)	131	C.Y.	\$300.00	\$39,300.00	\$125.00	\$16,375.00	\$180.00	\$23,580.00	\$190.00	\$24,890.00

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75	301	4 3/4" Bituminous Aggregate Base	2,333	C.Y.	\$150.00	\$349,950.00	\$85.00	\$198,305.00	\$95.00	\$221,635.00	\$113.00	\$263,629.00
76	301	6" Bituminous Aggregate Base	3,015	C.Y.	\$100.00	\$301,500.00	\$85.00	\$256,275.00	\$95.00	\$286,425.00	\$113.00	\$340,695.00
77	304	Aggregate Base	1,973	C.Y.	\$34.00	\$67,082.00	\$40.00	\$78,920.00	\$33.00	\$65,109.00	\$50.00	\$98,650.00
78	448	Asphalt Concrete, 6" Driveway Reconstruction	89	C.Y.	\$250.00	\$22,250.00	\$125.00	\$11,125.00	\$185.00	\$16,465.00	\$240.00	\$21,360.00
79	448	Asphalt Concrete, 1 1/4", Driveway Reconstruction	39	C.Y.	\$250.00	\$9,750.00	\$125.00	\$4,875.00	\$210.00	\$8,190.00	\$265.00	\$10,335.00
80	407	Tack Coat	3,619	GAL	\$2.00	\$7,238.00	\$2.00	\$7,238.00	\$2.00	\$7,238.00	\$1.75	\$6,333.25
81	410	Drive and Walkway Sealcoat	749	S.Y.	\$1.00	\$749.00	\$4.00	\$2,996.00	\$5.00	\$3,745.00	\$4.00	\$2,996.00
82	446	Asphalt Concrete Surface Course, Type 1H, 1 1/2"	737	C.Y.	\$135.00	\$99,495.00	\$125.00	\$92,125.00	\$138.00	\$101,706.00	\$205.00	\$151,085.00
83	452	6" Plain Portland Cement (Driveways)	436	S.Y.	\$45.00	\$19,620.00	\$44.00	\$19,184.00	\$45.00	\$19,620.00	\$28.00	\$12,208.00
84	455	Combination Curb and Gutter	4,916	L.F.	\$25.00	\$122,900.00	\$11.00	\$54,076.00	\$15.00	\$73,740.00	\$16.00	\$78,656.00
85	455	Curb, Type 6"x18"	1,966	L.F.	\$16.00	\$31,456.00	\$10.00	\$19,660.00	\$18.00	\$35,388.00	\$14.00	\$27,524.00
86	455	Curb, Type 6"x18" With Integral Base	25	L.F.	\$19.00	\$475.00	\$22.00	\$550.00	\$40.00	\$1,000.00	\$34.00	\$850.00
87	456	Concrete Aprons, 6" Thick	9,314	S.F.	\$4.00	\$37,256.00	\$4.50	\$41,913.00	\$5.00	\$46,570.00	\$4.20	\$39,118.80
WATER WORKS												
88	202	Water Main Removed - 36"	1,776	L.F.	\$50.00	\$88,800.00	\$20.00	\$35,520.00	\$21.00	\$37,296.00	\$33.00	\$58,608.00
89	202	Water Valve & Box Removed	1	EACH	\$150.00	\$150.00	\$100.00	\$100.00	\$50.00	\$50.00	\$60.00	\$60.00
90	202	Water Main Access Manhole Removed	1	EACH	\$2,000.00	\$2,000.00	\$200.00	\$200.00	\$100.00	\$100.00	\$2,500.00	\$2,500.00
91	202	Air Release Valve Assembly Removed	1	EACH	\$200.00	\$200.00	\$100.00	\$100.00	\$500.00	\$500.00	\$1,000.00	\$1,000.00
92	252	Trenches For Water Services in Earth	821	L.F.	\$18.00	\$14,778.00	\$16.00	\$13,136.00	\$16.00	\$13,136.00	\$38.00	\$31,198.00
93	252	Disconnect Water Services	6	EACH	\$50.00	\$300.00	\$100.00	\$600.00	\$350.00	\$2,100.00	\$450.00	\$2,700.00
94	252	Meter and Chamber Removed and Reset, As Per Plan	15	EACH	\$350.00	\$5,250.00	\$500.00	\$7,500.00	\$650.00	\$9,750.00	\$450.00	\$6,750.00
95	254	4" Water Main Ductile Iron Pipe	10	L.F.	\$38.00	\$380.00	\$100.00	\$1,000.00	\$85.00	\$850.00	\$63.00	\$630.00
96	254	6" Water Main Ductile Iron Pipe	171	L.F.	\$41.00	\$7,011.00	\$50.00	\$8,550.00	\$75.00	\$12,825.00	\$37.00	\$6,327.00
97	254	8" Water Main Ductile Iron Pipe	71	L.F.	\$60.00	\$4,260.00	\$50.00	\$3,550.00	\$85.00	\$6,035.00	\$48.00	\$3,408.00
98	254	12" Water Main Ductile Iron Pipe	30	L.F.	\$80.00	\$2,400.00	\$100.00	\$3,000.00	\$95.00	\$2,850.00	\$98.00	\$2,940.00
99	255	36" Prestressed Concrete Cylinder Pipe	1,778	L.F.	\$450.00	\$800,100.00	\$213.00	\$378,714.00	\$264.00	\$469,392.00	\$264.50	\$470,281.00
100	258	6" Gate Valve & Box	5	EACH	\$900.00	\$4,500.00	\$600.00	\$3,000.00	\$565.00	\$2,825.00	\$600.00	\$3,000.00
101	258	8" Gate Valve & Box	1	EACH	\$1,000.00	\$1,000.00	\$950.00	\$950.00	\$837.00	\$837.00	\$900.00	\$900.00
102	258	12" Gate Valve & Box	3	EACH	\$1,400.00	\$4,200.00	\$1,500.00	\$4,500.00	\$1,540.00	\$4,620.00	\$1,700.00	\$5,100.00
103	258	36" Butterfly Valve & Box	1	EACH	\$5,500.00	\$5,500.00	\$30,000.00	\$30,000.00	\$39,000.00	\$39,000.00	\$39,000.00	\$39,000.00
104	258	6" Swing Check Valve - Buried	1	EACH	\$1,200.00	\$1,200.00	\$900.00	\$900.00	\$760.00	\$760.00	\$800.00	\$800.00
105	259	4" 45 Degree Bend	1	EACH	\$125.00	\$125.00	\$130.00	\$130.00	\$90.00	\$90.00	\$100.00	\$100.00
106	259	6" 45 Degree Bend	16	EACH	\$200.00	\$3,200.00	\$150.00	\$2,400.00	\$122.00	\$1,952.00	\$140.00	\$2,240.00
107	259	8" 45 Degree Bend	9	EACH	\$250.00	\$2,250.00	\$250.00	\$2,250.00	\$165.00	\$1,485.00	\$190.00	\$1,710.00
108	259	8" 90 Degree Bend	1	EACH	\$250.00	\$250.00	\$250.00	\$250.00	\$192.00	\$192.00	\$200.00	\$200.00
109	259	8" x 4" Reducer	1	EACH	\$265.00	\$265.00	\$150.00	\$150.00	\$88.00	\$88.00	\$100.00	\$100.00
110	259	6" x 6" Tee	1	EACH	\$200.00	\$200.00	\$250.00	\$250.00	\$200.00	\$200.00	\$200.00	\$200.00
111	259	12" x 6" Tee	4	EACH	\$400.00	\$1,600.00	\$500.00	\$2,000.00	\$390.00	\$1,560.00	\$420.00	\$1,680.00
112	259	12" x 8" Tee	1	EACH	\$450.00	\$450.00	\$500.00	\$500.00	\$435.00	\$435.00	\$475.00	\$475.00

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113	255	36" x 12" PCCP Tee	1	EACH	\$3,500.00	\$3,500.00	\$8,500.00	\$8,500.00	\$3,000.00	\$3,000.00	\$2,900.00	\$2,900.00
114	255	36" x 12" PCCP Blowoff Tee	1	EACH	\$3,500.00	\$3,500.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00
115	259	4" Solid Sleeve	1	EACH	\$110.00	\$110.00	\$125.00	\$125.00	\$90.00	\$90.00	\$110.00	\$110.00
116	259	6" Solid Sleeve	4	EACH	\$120.00	\$480.00	\$150.00	\$600.00	\$122.00	\$488.00	\$140.00	\$560.00
117	259	8" Solid Sleeve	2	EACH	\$160.00	\$320.00	\$200.00	\$400.00	\$167.00	\$334.00	\$180.00	\$360.00
118	259	12" Solid Sleeve	7	EACH	\$245.00	\$1,715.00	\$1.00	\$7.00	\$321.00	\$2,247.00	\$375.00	\$2,625.00
119	260	6" Fire Hydrant	5	EACH	\$450.00	\$2,250.00	\$2,300.00	\$11,500.00	\$2,800.00	\$14,000.00	\$3,300.00	\$16,500.00
120	261	Polyethylene Encasement	282	L.F.	\$2.00	\$564.00	\$0.50	\$141.00	\$0.30	\$84.60	\$0.75	\$211.50
121	263	Tying into 4" Main	1	EACH	\$450.00	\$450.00	\$100.00	\$100.00	\$50.00	\$50.00	\$2,500.00	\$2,500.00
122	263	Tying into 6" Main	8	EACH	\$500.00	\$4,000.00	\$100.00	\$800.00	\$50.00	\$400.00	\$2,400.00	\$19,200.00
123	263	Tying into 8" Main	4	EACH	\$600.00	\$2,400.00	\$100.00	\$400.00	\$50.00	\$200.00	\$2,400.00	\$9,600.00
124	263	Tying into 12" Main	4	EACH	\$850.00	\$3,400.00	\$100.00	\$400.00	\$50.00	\$200.00	\$3,800.00	\$15,200.00
125	263	Tying into 36" Main	2	EACH	\$3,000.00	\$6,000.00	\$2,500.00	\$5,000.00	\$21,000.00	\$42,000.00	\$13,000.00	\$26,000.00
126	265	Water Main Valve Box Adjusted	35	EACH	\$125.00	\$4,375.00	\$100.00	\$3,500.00	\$50.00	\$1,750.00	\$175.00	\$6,125.00
127	267	Fire Hydrant Removed and Disposed of, As Per Plan	5	EACH	\$250.00	\$1,250.00	\$1,000.00	\$5,000.00	\$1,450.00	\$7,250.00	\$38.00	\$190.00
128	562	Water Manhole Adjusted	2	EACH	\$400.00	\$800.00	\$150.00	\$300.00	\$350.00	\$700.00	\$450.00	\$900.00
129	562	Water Main Access Manhole	1	EACH	\$7,500.00	\$7,500.00	\$2,200.00	\$2,200.00	\$14,000.00	\$14,000.00	\$15,000.00	\$15,000.00
SANITARY WORK												
130	557	8" Sanitary Sewer, 706.08 with 706.12, Class "B" Bedding	357	L.F.	\$50.00	\$17,850.00	\$85.00	\$30,345.00	\$147.00	\$52,479.00	\$85.00	\$30,345.00
131	559	6" Pipe Reconnections, Class "B" Bedding	50	L.F.	\$22.00	\$1,100.00	\$1.00	\$50.00	\$25.00	\$1,250.00	\$74.00	\$3,700.00
132	559	6" Pipe Bends, Class "B" Bedding	5	EACH	\$30.00	\$150.00	\$1.00	\$5.00	\$25.00	\$125.00	\$45.00	\$225.00
133	559	8" Pipe Reconnections, Class "B" Bedding	50	L.F.	\$25.00	\$1,250.00	\$1.00	\$50.00	\$28.00	\$1,400.00	\$75.00	\$3,750.00
134	559	8" Pipe Bends, Class "B" Bedding	5	EACH	\$40.00	\$200.00	\$1.00	\$5.00	\$28.00	\$140.00	\$74.00	\$370.00
135	560	6" Long House Laterals, Sanitary, Class "B" Bedding	10	EACH	\$1,250.00	\$12,500.00	\$1.00	\$10.00	\$3,600.00	\$36,000.00	\$2,700.00	\$27,000.00
136	562	Brick Manhole Adjusted	1	EACH	\$320.00	\$320.00	\$250.00	\$250.00	\$350.00	\$350.00	\$450.00	\$450.00
137	562	Manhole MH-2A on 8" Sanitary Sewer	3	EACH	\$3,200.00	\$9,600.00	\$3,000.00	\$9,000.00	\$2,800.00	\$8,400.00	\$3,400.00	\$10,200.00
LIGHTING												
Fiberglass Light Pole w/ Luminaire, (12' Fluted Pole w/ 80 Watt LED Acorn Post Top Luminaire), Complete and In												
138	625	Place	30	EACH	\$3,500.00	\$105,000.00	\$2,400.00	\$72,000.00	\$2,710.00	\$81,300.00	\$2,800.00	\$84,000.00
139	625	4 Unit Mole Connector	34	EACH	\$100.00	\$3,400.00	\$40.00	\$1,360.00	\$50.00	\$1,700.00	\$50.00	\$1,700.00
140	625	No. 4 AWG 600 Volt Cable Distribution Cable	12,790	L.F.	\$4.00	\$51,160.00	\$1.00	\$12,790.00	\$1.35	\$17,266.50	\$1.35	\$17,266.50
141	625	Conduit, 2 inch, 713.07	4,388	L.F.	\$7.00	\$30,716.00	\$3.00	\$13,164.00	\$1.90	\$8,337.20	\$1.90	\$8,337.20
142	625	Conduit, 3 inch, 713.07 Encased	327	L.F.	\$12.00	\$3,924.00	\$8.00	\$2,616.00	\$5.70	\$1,863.90	\$5.70	\$1,863.90
143	625	Trench	4,388	L.F.	\$5.00	\$21,940.00	\$5.00	\$21,940.00	\$0.01	\$43.88	\$4.20	\$18,429.60
144	625	Trench in Paved Areas, Type B	327	L.F.	\$27.00	\$8,829.00	\$25.00	\$8,175.00	\$0.01	\$3.27	\$54.00	\$17,658.00
145	625	Pull Box, 18"x24"x18" Reinforced Polymer Concrete	11	EACH	\$483.00	\$5,313.00	\$400.00	\$4,400.00	\$438.00	\$4,818.00	\$438.00	\$4,818.00
146	625	High Voltage Test	1	L.S.	\$3,000.00	\$3,000.00	\$1,400.00	\$1,400.00	\$1,570.00	\$1,570.00	\$1,570.00	\$1,570.00
147	625	Control Centers With Metering, Complete and in Place	6	EACH	\$7,500.00	\$45,000.00	\$3,200.00	\$19,200.00	\$3,850.00	\$23,100.00	\$3,850.00	\$23,100.00

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		1. Kenmore Construction Co.		2. Liberta Construction Co.		3. Karvo Paving	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
148	625	Lighting Misc.: Power Service, As Per Plan	6	EACH	\$2,500.00	\$15,000.00	\$350.00	\$2,100.00	\$385.00	\$2,310.00	\$385.00	\$2,310.00
TRAFFIC CONTROL												
149	621	Lane Lines, 4 Inch	1.02	MILE	\$600.00	\$612.00	\$400.00	\$408.00	\$325.00	\$331.50	\$325.00	\$331.50
150	621	Center Lines, Solid, Double	0.57	MILE	\$850.00	\$484.50	\$1,400.00	\$798.00	\$1,500.00	\$855.00	\$1,500.00	\$855.00
151	621	Channelizing Lines	985	L.F.	\$1.00	\$985.00	\$0.50	\$492.50	\$0.50	\$492.50	\$0.50	\$492.50
152	621	Crosswalk Lines	858	L.F.	\$3.00	\$2,574.00	\$1.50	\$1,287.00	\$2.75	\$2,359.50	\$2.75	\$2,359.50
153	621	Stop Lines, 24 Inch	384	L.F.	\$4.00	\$1,536.00	\$3.00	\$1,152.00	\$3.50	\$1,344.00	\$3.50	\$1,344.00
154	621	Transverse Lines, Yellow, 24" @ 12' O.C.	38	L.F.	\$3.00	\$114.00	\$2.00	\$76.00	\$3.00	\$114.00	\$3.00	\$114.00
155	621	Island Marking, Yellow	21	S.F.	\$2.00	\$42.00	\$2.00	\$42.00	\$2.75	\$57.75	\$2.75	\$57.75
156	621	Lane Arrows	8	EACH	\$65.00	\$520.00	\$50.00	\$400.00	\$30.00	\$240.00	\$30.00	\$240.00
157	621	Edge Lines, White	51	L.F.	\$3.00	\$153.00	\$1.00	\$51.00	\$1.50	\$76.50	\$1.50	\$76.50
158	621	Dotted Lines, 4 Inch	169	L.F.	\$3.00	\$507.00	\$1.50	\$253.50	\$0.75	\$126.75	\$0.75	\$126.75
159	629	Street Name Sign Assembly on Mast Arm	1	EACH	\$230.00	\$230.00	\$500.00	\$500.00	\$550.00	\$550.00	\$550.00	\$550.00
160	629	Street Name Sign	16	EACH	\$115.00	\$1,840.00	\$100.00	\$1,600.00	\$125.00	\$2,000.00	\$125.00	\$2,000.00
161	629	Street Name Sign Pole	8	EACH	\$170.00	\$1,360.00	\$150.00	\$1,200.00	\$160.00	\$1,280.00	\$160.00	\$1,280.00
162	630	Overhead Sign Support, Type TC-16.20, Design 12, Span 4	1	EACH	\$8,200.00	\$8,200.00	\$6,200.00	\$6,200.00	\$8,750.00	\$8,750.00	\$7,375.00	\$7,375.00
163	630	Rigid Overhead Sign Support Foundation	1	EACH	\$2,900.00	\$2,900.00	\$2,100.00	\$2,100.00	\$2,100.00	\$2,100.00	\$2,575.00	\$2,575.00
164	630	Removal of Overhead Mounted Sign and Re-Erection	7	EACH	\$212.00	\$1,484.00	\$150.00	\$1,050.00	\$200.00	\$1,400.00	\$200.00	\$1,400.00
165	630	Removal of Pole Mounted Sign and Re-Erection	4	EACH	\$31.00	\$124.00	\$100.00	\$400.00	\$135.00	\$540.00	\$135.00	\$540.00
166	630	Ground Mounted Supports, No. 2 Post	259	L.F.	\$6.50	\$1,683.50	\$6.00	\$1,554.00	\$6.50	\$1,683.50	\$6.50	\$1,683.50
167	630	Ground Mounted Supports, No. 3 Post	289	L.F.	\$7.00	\$2,023.00	\$6.00	\$1,734.00	\$7.50	\$2,167.50	\$7.50	\$2,167.50
168	630	Removal of Ground Mounted Sign and Storage	48	EACH	\$15.00	\$720.00	\$5.00	\$240.00	\$1.00	\$48.00	\$10.00	\$480.00
169	630	Removal of Ground Mounted Sign and Re-Erection	24	EACH	\$37.00	\$888.00	\$30.00	\$720.00	\$35.00	\$840.00	\$35.00	\$840.00
170	630	Removal of Ground Mounted Post Support	44	EACH	\$24.00	\$1,056.00	\$10.00	\$440.00	\$1.00	\$44.00	\$10.00	\$440.00
171	630	Sign Support Assembly, Pole	14	EACH	\$71.00	\$994.00	\$75.00	\$1,050.00	\$85.00	\$1,190.00	\$85.00	\$1,190.00
172	630	Sign Hanger Assembly, Mast Arm	19	EACH	\$280.00	\$5,320.00	\$150.00	\$2,850.00	\$195.00	\$3,705.00	\$195.00	\$3,705.00
173	630	Sign Flat Sheet	327	S.F.	\$16.00	\$5,232.00	\$14.00	\$4,578.00	\$15.00	\$4,905.00	\$15.00	\$4,905.00
TRAFFIC SIGNALS												
174	514	Field Painting Existing Steel, As Per Plan	1	L.S.	\$750.00	\$750.00	\$1,300.00	\$1,300.00	\$2,182.00	\$2,182.00	\$2,182.00	\$2,182.00
175	625	Trench	10	L.F.	\$5.00	\$50.00	\$7.00	\$70.00	\$0.01	\$0.10	\$4.20	\$42.00
176	625	Trench in Paved Areas, Type A	529	L.F.	\$41.00	\$21,689.00	\$20.00	\$10,580.00	\$0.01	\$5.29	\$32.00	\$16,928.00
177	625	Trench in Paved Areas, Type B	370	L.F.	\$41.00	\$15,170.00	\$25.00	\$9,250.00	\$0.01	\$3.70	\$54.00	\$19,980.00
178	625	Fiber Optic Cable Warning Tape	2,400	L.F.	\$0.50	\$1,200.00	\$0.25	\$600.00	\$0.55	\$1,320.00	\$0.55	\$1,320.00
179	625	Handhole, 13"x24"x15" Polymer Concrete	3	EACH	\$600.00	\$1,800.00	\$325.00	\$975.00	\$395.00	\$1,185.00	\$395.00	\$1,185.00
180	625	Ground Rod	10	EACH	\$177.00	\$1,770.00	\$100.00	\$1,000.00	\$110.00	\$1,100.00	\$110.00	\$1,100.00
181	625	Ground Rod, As Per Plan	3	EACH	\$190.00	\$570.00	\$100.00	\$300.00	\$116.00	\$348.00	\$116.00	\$348.00
182	625	Special - Plastic Caution Tape	900	L.F.	\$0.50	\$450.00	\$0.25	\$225.00	\$0.45	\$405.00	\$0.45	\$405.00
183	632	Way, Polycarbonate, As Per Plan	23	EACH	\$740.00	\$17,020.00	\$500.00	\$11,500.00	\$584.00	\$13,432.00	\$584.00	\$13,432.00

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. Liberta Construction Co. PRICE	2. Liberta Construction Co. AMOUNT	3. Karvo Paving PRICE	3. Karvo Paving AMOUNT
184	632	Vehicular Signal Head, (LED), 5-Section, 12" LENS, 1 Way, Polycarbonate, As Per Plan	9	EACH	\$1,200.00	\$10,800.00	\$825.00	\$7,425.00	\$920.00	\$8,280.00	\$920.00	\$8,280.00
185	632	Pedestrian Signal Head, (LED), Countdown, Type D2, As P	8	EACH	\$530.00	\$4,240.00	\$400.00	\$3,200.00	\$460.00	\$3,680.00	\$460.00	\$3,680.00
186	632	Covering of Vehicular Signal Head	23	EACH	\$25.00	\$575.00	\$25.00	\$575.00	\$30.00	\$690.00	\$30.00	\$690.00
187	632	Covering of Pedestrian Signal Head	8	EACH	\$12.00	\$96.00	\$25.00	\$200.00	\$20.00	\$160.00	\$20.00	\$160.00
188	632	Conduit, 2", 713.07	45	L.F.	\$6.00	\$270.00	\$3.00	\$135.00	\$1.90	\$85.50	\$1.90	\$85.50
189	632	Conduit, 3", 713.07	529	L.F.	\$7.00	\$3,703.00	\$3.00	\$1,587.00	\$3.00	\$1,587.00	\$3.00	\$1,587.00
190	632	Conduit, 3", 713.07 Encased (Traffic)	370	L.F.	\$15.00	\$5,550.00	\$6.00	\$2,220.00	\$5.70	\$2,109.00	\$5.70	\$2,109.00
191	632	Pedestrian Push Button, As Per Plan	8	EACH	\$140.00	\$1,120.00	\$125.00	\$1,000.00	\$137.00	\$1,096.00	\$137.00	\$1,096.00
192	632	Pull Box, Misc.: Pullbox, 713.06, 24" x 36" x 24" Deep	8	EACH	\$725.00	\$5,800.00	\$550.00	\$4,400.00	\$680.00	\$5,440.00	\$680.00	\$5,440.00
193	632	Pull Box, Misc.: Pullbox, 713.06, 30" x 48" x 24" Deep	3	EACH	\$1,100.00	\$3,300.00	\$850.00	\$2,550.00	\$945.00	\$2,835.00	\$945.00	\$2,835.00
194	632	Signal Cable, 5 Conductor, No.14 AWG	422	L.F.	\$2.00	\$844.00	\$1.00	\$422.00	\$1.40	\$590.80	\$1.40	\$590.80
195	632	Signal Cable, 7 Conductor, No.14 AWG	4,051	L.F.	\$2.50	\$10,127.50	\$1.00	\$4,051.00	\$1.55	\$6,279.05	\$1.55	\$6,279.05
196	632	Interconnect Cable, Misc.: Drop Cable, 6 Fiber	30	L.F.	\$2.00	\$60.00	\$30.00	\$900.00	\$34.45	\$1,033.50	\$34.45	\$1,033.50
197	632	Interconnect Cable, Misc.: Trunk Cable, 24 Fiber, Loose Tu	2,370	L.F.	\$4.00	\$9,480.00	\$1.50	\$3,555.00	\$1.75	\$4,147.50	\$1.75	\$4,147.50
198	632	Interconnect, Misc.: Fusion Splice	66	EACH	\$22.00	\$1,452.00	\$20.00	\$1,320.00	\$20.00	\$1,320.00	\$20.00	\$1,320.00
199	632	Interconnect, Misc.: Terminal Panel, Controller Cabinet	3	EACH	\$260.00	\$780.00	\$300.00	\$900.00	\$325.00	\$975.00	\$325.00	\$975.00
200	632	Interconnect, Misc.: Fiber Optic Connector	18	EACH	\$30.00	\$540.00	\$30.00	\$540.00	\$31.50	\$567.00	\$31.50	\$567.00
201	632	Interconnect, Misc.: Fan Out Kit, 6 Fiber	3	EACH	\$28.00	\$84.00	\$30.00	\$90.00	\$38.00	\$114.00	\$38.00	\$114.00
202	632	Interconnect, Misc.: Splice Enclosure	3	EACH	\$260.00	\$780.00	\$250.00	\$750.00	\$309.00	\$927.00	\$309.00	\$927.00
203	632	Interconnect, Misc.: Slack Installation	8	EACH	\$300.00	\$2,400.00	\$400.00	\$3,200.00	\$510.00	\$4,080.00	\$510.00	\$4,080.00
204	632	Interconnect, Misc.: Fiber Optic Patch Cord, 4 Fiber	3	EACH	\$107.00	\$321.00	\$75.00	\$225.00	\$78.00	\$234.00	\$78.00	\$234.00
205	632	Interconnect, Misc.: Fiber Optic Cable Testing	1	L.S.	\$565.00	\$565.00	\$875.00	\$875.00	\$924.00	\$924.00	\$924.00	\$924.00
206	632	Interconnect, Misc.: Training Plan	1	L.S.	\$15,000.00	\$15,000.00	\$11,000.00	\$11,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00
207	632	Signal Support Foundation	10	EACH	\$2,500.00	\$25,000.00	\$1,500.00	\$15,000.00	\$1,955.00	\$19,550.00	\$1,955.00	\$19,550.00
208	632	Pedestal Foundation	1	EACH	\$570.00	\$570.00	\$500.00	\$500.00	\$340.00	\$340.00	\$340.00	\$340.00
209	632	Power Cable, 3 Conductor, No. 4 AWG	45	L.F.	\$4.00	\$180.00	\$3.00	\$135.00	\$3.25	\$146.25	\$3.25	\$146.25
210	632	Combination Signal Support, Type TC -81.20, Design 12 Pole with Design 2 Arm and Design 11 Arm, (With Light Pole Extension), As Per Plan	1	EACH	\$7,800.00	\$7,800.00	\$9,000.00	\$9,000.00	\$9,810.00	\$9,810.00	\$9,810.00	\$9,810.00
211	632	Combination Signal Support, Type TC -12.30, Design 5 Pole with Design 4 Arm and Design 4 Arm, (With Light Pole Extension), As Per Plan	1	EACH	\$7,500.00	\$7,500.00	\$9,000.00	\$9,000.00	\$9,900.00	\$9,900.00	\$9,900.00	\$9,900.00
212	632	Combination Signal Support, Type TC -81.20, Design 3 Pole with Design 1 Arm and Design 2 Arm, (With Light Pole Extension), As Per Plan	1	EACH	\$7,300.00	\$7,300.00	\$5,500.00	\$5,500.00	\$6,345.00	\$6,345.00	\$6,345.00	\$6,345.00
213	632	Combination Signal Support, Type TC -81.20, Design 4 Pole with Design 4 Arm (With Light Pole Extension), As Per Plan	2	EACH	\$5,300.00	\$10,600.00	\$5,500.00	\$11,000.00	\$6,690.00	\$13,380.00	\$6,690.00	\$13,380.00

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. Liberta Construction Co. PRICE	2. Liberta Construction Co. AMOUNT	3. Karvo Paving PRICE	3. Karvo Paving AMOUNT
		Combination Signal Support, Type TC -12.30, Design 5 Pole with Design 4 Arm and Design 11 Arm, (With Light Pole Extension), As Per Plan										
214	632		1	EACH	\$6,400.00	\$6,400.00	\$8,600.00	\$8,600.00	\$9,400.00	\$9,400.00	\$9,400.00	\$9,400.00
215	632	Signal Support, Type TC-81.20, Design 2, As Per Plan	1	EACH	\$2,600.00	\$2,600.00	\$3,800.00	\$3,800.00	\$4,395.00	\$4,395.00	\$4,395.00	\$4,395.00
216	632	Signal Support, Type TC-81.20, Design 11, As Per Plan	3	EACH	\$4,300.00	\$12,900.00	\$6,900.00	\$20,700.00	\$7,580.00	\$22,740.00	\$7,580.00	\$22,740.00
217	632	Pedestal, 8' Transformer Base	1	EACH	\$443.00	\$443.00	\$400.00	\$400.00	\$423.00	\$423.00	\$423.00	\$423.00
218	632	Removal of Traffic Signal Installation, As Per Plan	4	EACH	\$1,600.00	\$6,400.00	\$2,000.00	\$8,000.00	\$2,100.00	\$8,400.00	\$2,100.00	\$8,400.00
219	632	Relocate Vehicular Signal Head	10	EACH	\$400.00	\$4,000.00	\$250.00	\$2,500.00	\$300.00	\$3,000.00	\$300.00	\$3,000.00
220	632	Relocate Pedestrian Signal Head	4	EACH	\$200.00	\$800.00	\$200.00	\$800.00	\$200.00	\$800.00	\$200.00	\$800.00
221	632	Relocate Pedestrian Pushbutton	4	EACH	\$100.00	\$400.00	\$100.00	\$400.00	\$114.00	\$456.00	\$114.00	\$456.00
222	632	Signalization, Misc.: Preemption Detector with Confirmation	3	EACH	\$8,500.00	\$25,500.00	\$2,900.00	\$8,700.00	\$3,340.00	\$10,020.00	\$3,340.00	\$10,020.00
223	632	Signalization, Misc.: Preemption Detector with Confirmation	1	EACH	\$1,000.00	\$1,000.00	\$1,200.00	\$1,200.00	\$1,375.00	\$1,375.00	\$1,375.00	\$1,375.00
224	632	Signalization, Misc.: Video Detection Unit, Relocated	1	EACH	\$4,500.00	\$4,500.00	\$1,600.00	\$1,600.00	\$2,065.00	\$2,065.00	\$2,065.00	\$2,065.00
225	632	Signalization, Misc.: Video Detection Unit, As Per Plan	11	EACH	\$6,500.00	\$71,500.00	\$4,400.00	\$48,400.00	\$5,190.00	\$57,090.00	\$5,190.00	\$57,090.00
226	632	Signalization, Misc.: Expansion of ICONS System	1	L.S.	\$20,000.00	\$20,000.00	\$5,700.00	\$5,700.00	\$6,300.00	\$6,300.00	\$6,300.00	\$6,300.00
227	633	Testing and Certification of Malfunction Management Unit	3	EACH	\$350.00	\$1,050.00	\$50.00	\$150.00	\$55.00	\$165.00	\$55.00	\$165.00
228	633	Controller Unit, Type TS2/A2, with Cabinet, Type TS1, As P	3	EACH	\$6,300.00	\$18,900.00	\$10,000.00	\$30,000.00	\$11,865.00	\$35,595.00	\$11,865.00	\$35,595.00
229	633	Cabinet Foundation, As Per Plan	3	EACH	\$1,200.00	\$3,600.00	\$1,000.00	\$3,000.00	\$1,165.00	\$3,495.00	\$1,165.00	\$3,495.00
230	633	Controller Work Pad	1	EACH	\$250.00	\$250.00	\$200.00	\$200.00	\$249.00	\$249.00	\$249.00	\$249.00
231	633	Controller Item, Misc.: Fiber Optic Transceiver, Single Mod	3	EACH	\$600.00	\$1,800.00	\$1,200.00	\$3,600.00	\$1,460.00	\$4,380.00	\$1,460.00	\$4,380.00
232	633	Controller Item, Misc.: Preemption Priority Control	3	EACH	\$5,500.00	\$16,500.00	\$2,800.00	\$8,400.00	\$3,725.00	\$11,175.00	\$3,725.00	\$11,175.00
233	633	Controller Item, Misc.: Fiber Optic Ethernet Transceiver, As	3	EACH	\$2,450.00	\$7,350.00	\$2,600.00	\$7,800.00	\$2,940.00	\$8,820.00	\$2,940.00	\$8,820.00
234	633	Controller Item, Misc.: Uninterruptible Power Supply (UPS),	3	EACH	\$6,600.00	\$19,800.00	\$3,600.00	\$10,800.00	\$4,410.00	\$13,230.00	\$4,410.00	\$13,230.00
235	633	Controller Item, Misc.: Fiber Optic Installation Kit	1	EACH	\$9,000.00	\$9,000.00	\$6,000.00	\$6,000.00	\$6,825.00	\$6,825.00	\$6,825.00	\$6,825.00
236	633	Controller Item, Misc.: Fire Station Preemption, As Per plan	1	L.S.	\$2,000.00	\$2,000.00	\$700.00	\$700.00	\$770.00	\$770.00	\$770.00	\$770.00
237	633	Controller Item, Misc.: Home Avenue Signal Intersection Im	1	L.S.	\$11,100.00	\$11,100.00	\$13,500.00	\$13,500.00	\$15,460.00	\$15,460.00	\$15,460.00	\$15,460.00
238	633	Controller Item, Misc.: Gorge Boulevard Signal Intersection	1	L.S.	\$6,600.00	\$6,600.00	\$6,800.00	\$6,800.00	\$7,850.00	\$7,850.00	\$7,850.00	\$7,850.00
239	633	Controller Item, Misc.: Misc. Controller Equipment	1	L.S.	\$10,800.00	\$10,800.00	\$6,500.00	\$6,500.00	\$7,325.00	\$7,325.00	\$7,325.00	\$7,325.00
TRAFFIC AND COMMUNICATIONS												
240	625	Trench	5,000	L.F.	\$5.00	\$25,000.00	\$6.00	\$30,000.00	\$0.01	\$50.00	\$4.20	\$21,000.00
241	625	Trench in Paved Areas, Type A	244	L.F.	\$41.00	\$10,004.00	\$20.00	\$4,880.00	\$0.01	\$2.44	\$32.00	\$7,808.00
242	625	Trench in Paved Areas, Type B	211	L.F.	\$41.00	\$8,651.00	\$30.00	\$6,330.00	\$0.01	\$2.11	\$54.00	\$11,394.00
243	632	Conduit, 3", 713.07	5,244	L.F.	\$7.00	\$36,708.00	\$2.50	\$13,110.00	\$1.90	\$9,963.60	\$1.90	\$9,963.60
244	632	Conduit, 3", 713.07 Encased (Traffic)	211	L.F.	\$15.00	\$3,165.00	\$6.00	\$1,266.00	\$4.75	\$1,002.25	\$4.75	\$1,002.25
245	632	Pull Box, Misc.: Pullbox, 713.06, 24" x 36" x 24" Deep	21	EACH	\$725.00	\$15,225.00	\$575.00	\$12,075.00	\$680.00	\$14,280.00	\$680.00	\$14,280.00
LANDSCAPING												
246	663	Tree Planting w/Grate, Skyline Honey Locust 3" BB (Gledit	54	EACH	\$1,300.00	\$70,200.00	\$1,500.00	\$81,000.00	\$1,300.00	\$70,200.00	\$1,516.22	\$81,875.88
247	669	Protecting Trees	1	L.S.	\$1,000.00	\$1,000.00	\$150.00	\$150.00	\$1.00	\$1.00	\$118.15	\$118.15
RETAINING WALLS												

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. Liberta Construction Co. PRICE	2. Liberta Construction Co. AMOUNT	3. Karvo Paving PRICE	3. Karvo Paving AMOUNT
248	611	Modular Block Wall (Rustic Red)	1,485	S.F.	\$40.00	\$59,400.00	\$27.00	\$40,095.00	\$28.00	\$41,580.00	\$27.75	\$41,208.75
MAINTENANCE OF TRAFFIC												
249	410	Traffic Compacted Surface, Type A or B (ODOT Spec)	709	C.Y.	\$24.00	\$17,016.00	\$5.00	\$3,545.00	\$1.00	\$709.00	\$40.00	\$28,360.00
250	613	Uniformed Law Enforcement Officer	600	Hours	\$38.00	\$22,800.00	\$38.00	\$22,800.00	\$38.00	\$22,800.00	\$38.00	\$22,800.00
251	613	Uniformed Law Enforcement Officer with Patrol Car	600	Hours	\$56.00	\$33,600.00	\$56.00	\$33,600.00	\$56.00	\$33,600.00	\$56.00	\$33,600.00
252	614	Maintaining Traffic	1	L.S.	\$45,000.00	\$45,000.00	\$25,000.00	\$25,000.00	\$161,790.00	\$161,790.00	\$35,000.00	\$35,000.00
253	614	Work Zone Edge Line, Class I, 642 Paint (ODOT Spec)	2	MILE	\$1,000.00	\$2,000.00	\$500.00	\$1,000.00	\$500.00	\$1,000.00	\$500.00	\$1,000.00
254	614	Work Zone Channelizing Line, Class I, 642 Paint (ODOT Sp	626	FT	\$20.00	\$12,520.00	\$1.00	\$626.00	\$0.50	\$313.00	\$0.50	\$313.00
255	614	Work Zone Center Line, Class I, 642 Paint (ODOT Spec)	1	MILE	\$1,500.00	\$1,500.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
256	614	Work Zone Stop Line, Class I, 642 Paint (ODOT Spec)	228	FT	\$10.00	\$2,280.00	\$3.50	\$798.00	\$3.50	\$798.00	\$3.50	\$798.00
257	614	Portable Changeable Message Sign, As Per Plan	36	SIGN MONTH	\$700.00	\$25,200.00	\$400.00	\$14,400.00	\$50.00	\$1,800.00	\$500.00	\$18,000.00
258	615	Temporary Pavement	50	S.Y.	\$73.00	\$3,650.00	\$10.00	\$500.00	\$63.00	\$3,150.00	\$140.00	\$7,000.00
259	615	Temporary Walks	2,200	S.F.	\$3.00	\$6,600.00	\$2.00	\$4,400.00	\$0.10	\$220.00	\$2.00	\$4,400.00
260	616	Water	50	M. GAL	\$30.00	\$1,500.00	\$5.00	\$250.00	\$0.10	\$5.00	\$10.00	\$500.00
261	616	Calcium Chloride	15	TON	\$120.00	\$1,800.00	\$100.00	\$1,500.00	\$1.00	\$15.00	\$15.00	\$225.00
MISC.												
262	103.05	Contract Performance Bond	1	L.S.	\$30,000.00	\$30,000.00	\$25,000.00	\$25,000.00	\$121,500.00	\$121,500.00	\$40,000.00	\$40,000.00
263	619	Field Office, Type B (ODOT Spec), As per plan	14	MONTH	\$1,300.00	\$18,200.00	\$2,000.00	\$28,000.00	\$750.00	\$10,500.00	\$2,000.00	\$28,000.00
264	623	Construction Layout Stakes	1	L.S.	\$25,000.00	\$25,000.00	\$20,000.00	\$20,000.00	\$80,880.00	\$80,880.00	\$24,000.00	\$24,000.00
265	624	Mobilization	1	L.S.	\$54,000.00	\$54,000.00	\$10,000.00	\$10,000.00	\$87,000.00	\$87,000.00	\$125,000.00	\$125,000.00
ALTERNATE #1												
ALT#1	632	Interconnect Cable Misc.: Trunk Cable, 48 Fiber, Loose Tube, Single Mode	2,370	L.F.	\$6.00	\$14,220.00	\$3.00	\$7,110.00	\$2.00	\$4,740.00	\$2.10	\$4,977.00
ALTERNATE #2												
ALT#2	632	Signalization Misc.: Video Detection Unit, As Per Plan, Autoscope Solo Terra	11	EACH	\$7,000.00	\$77,000.00	\$6,000.00	\$66,000.00	\$5,190.00	\$57,090.00	\$5,449.50	\$59,944.50
ALTERNATE #3												
ALT#3	633	Controller Item, Misc.: Preemption Priority Control, Sonem 2000	3	EACH	\$8,200.00	\$24,600.00	\$5,000.00	\$15,000.00	\$3,965.00	\$11,895.00	\$4,163.25	\$12,489.75
ALTERNATE #4												
ALT#4	633	Controller Item, Misc.: Uninterruptible Power Supply (UPS),	3	EACH	\$6,600.00	\$19,800.00	\$8,000.00	\$24,000.00	\$7,006.00	\$21,018.00	\$7,356.30	\$22,068.90

BID TAB FOR: Tallmadge Avenue Widening

FILE NO. 2003-010-00

BID DATE: August 17, 2010

CODE: 41299-B03008

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. Liberta Construction Co. PRICE	2. Liberta Construction Co. AMOUNT	3. Karvo Paving PRICE	3. Karvo Paving AMOUNT
TOTAL CONSTRUCTION COSTS						\$4,422,829.00		\$3,108,170.00		\$3,770,551.56		\$4,062,211.43
+/- ENGINEER'S ESTIMATE								-29.7%		-14.7%		-8.2%
ALTERNATE #1												
TOTAL CONSTRUCTION COSTS						\$14,220.00		\$7,110.00		\$4,740.00		\$4,977.00
+/- ENGINEER'S ESTIMATE								-50.0%		-66.7%		-65.0%
ALTERNATE #2												
TOTAL CONSTRUCTION COSTS						\$77,000.00		\$66,000.00		\$57,090.00		\$59,944.50
+/- ENGINEER'S ESTIMATE								-14.3%		-25.9%		-22.2%
ALTERNATE #3												
TOTAL CONSTRUCTION COSTS						\$24,600.00		\$15,000.00		\$11,895.00		\$12,489.75
+/- ENGINEER'S ESTIMATE								-39.0%		-51.6%		-49.2%
ALTERNATE #4												
TOTAL CONSTRUCTION COSTS						\$19,800.00		\$24,000.00		\$21,018.00		\$22,068.90
+/- ENGINEER'S ESTIMATE								+21.2%		+6.2%		+11.5%

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE PRICE	ENGINEER'S ESTIMATE AMOUNT	4. Shelly & Sands, Inc. PRICE	4. Shelly & Sands, Inc. AMOUNT	5. Wenger Excavating Inc. PRICE	5. Wenger Excavating Inc. AMOUNT
ROADWAY										
1	201	Clearing and Grubbing	1	L.S.	\$7,000.00	\$7,000.00	\$3,200.00	\$3,200.00	\$34,879.00	\$34,879.00
2	202	Pavement Removed	16,130	S.Y.	\$7.00	\$112,910.00	\$4.00	\$64,520.00	\$12.80	\$206,464.00
3	202	Curb Removed	7,073	L.F.	\$3.00	\$21,219.00	\$2.10	\$14,853.30	\$5.00	\$35,365.00
4	202	Pipe Removed, 12 Inch	1,135	L.F.	\$9.00	\$10,215.00	\$18.60	\$21,111.00	\$10.25	\$11,633.75
5	202	Sanitary Pipe Removed	437	L.F.	\$12.00	\$5,244.00	\$13.70	\$5,986.90	\$4.25	\$1,857.25
6	202	Pipe Abandoned	192	L.F.	\$6.00	\$1,152.00	\$17.45	\$3,350.40	\$3.25	\$624.00
7	202	Guardrail Removed	441	L.F.	\$4.00	\$1,764.00	\$1.60	\$705.60	\$4.00	\$1,764.00
8	202	Catch Basin or Inlet Removed	28	EACH	\$200.00	\$5,600.00	\$275.00	\$7,700.00	\$329.00	\$9,212.00
9	202	Manhole Removed	2	EACH	\$430.00	\$860.00	\$600.00	\$1,200.00	\$438.00	\$876.00
10	202	Light Pole Removed	2	EACH	\$250.00	\$500.00	\$195.00	\$390.00	\$322.00	\$644.00
11	202	Pull Box Removed	5	EACH	\$125.00	\$625.00	\$132.00	\$660.00	\$200.00	\$1,000.00
12	202	Removal Misc.: Steel Poles	7	EACH	\$20.00	\$140.00	\$53.00	\$371.00	\$428.00	\$2,996.00
13	202	Removal Misc.: Post	11	EACH	\$20.00	\$220.00	\$34.00	\$374.00	\$38.00	\$418.00
14	202	Removal Misc.: Railroad Tie	8	EACH	\$10.00	\$80.00	\$31.00	\$248.00	\$18.00	\$144.00
15	202	Removal Misc.: Commercial Sign	9	EACH	\$150.00	\$1,350.00	\$470.00	\$4,230.00	\$366.00	\$3,294.00
16	202	Removal Misc.: Concrete Sign Base	3	EACH	\$50.00	\$150.00	\$425.00	\$1,275.00	\$411.00	\$1,233.00
17	202	Removal Misc.: Parking Block	5	EACH	\$10.00	\$50.00	\$50.00	\$250.00	\$24.00	\$120.00
18	202	Removal Misc.: Planter	4	EACH	\$50.00	\$200.00	\$250.00	\$1,000.00	\$248.00	\$992.00
19	202	Wall Removed	96	L.F.	\$25.00	\$2,400.00	\$13.50	\$1,296.00	\$21.00	\$2,016.00
20	202	Fence Removed For Reuse Or Storage	266	L.F.	\$4.00	\$1,064.00	\$2.40	\$638.40	\$4.50	\$1,197.00
21	202	Steps Removed	99	L.F.	\$12.00	\$1,188.00	\$20.00	\$1,980.00	\$19.50	\$1,930.50
22	202	Regulated Underground Storage Tank Removed	3	EACH	\$5,000.00	\$15,000.00	\$10,000.00	\$30,000.00	\$3,422.00	\$10,266.00
23	203	Excavation Not Including Embankment Construction	10,661	C.Y.	\$10.00	\$106,610.00	\$14.10	\$150,320.10	\$17.70	\$188,699.70
24	203	Embankment	771	C.Y.	\$8.00	\$6,168.00	\$11.00	\$8,481.00	\$14.50	\$11,179.50
25	203	Subgrade Compaction	20,101	S.Y.	\$1.00	\$20,101.00	\$1.00	\$20,101.00	\$1.75	\$35,176.75
26	203	Proof Rolling	9	HOUR	\$90.00	\$810.00	\$240.00	\$2,160.00	\$162.00	\$1,458.00
27	456	Concrete Walk, 4" Thick	624	S.F.	\$3.00	\$1,872.00	\$4.25	\$2,652.00	\$4.00	\$2,496.00
28	456	Concrete Walk, 6" Thick	38,381	S.F.	\$4.00	\$153,524.00	\$5.25	\$201,500.25	\$4.90	\$188,066.90
29	456	Concrete Steps	210	L.F.	\$80.00	\$16,800.00	\$63.40	\$13,314.00	\$162.00	\$34,020.00
30	456	Curb Ramp	23	EACH	\$300.00	\$6,900.00	\$160.00	\$3,680.00	\$511.00	\$11,753.00
31	460	Brick Walk on 6" Concrete	9,832	S.F.	\$11.00	\$108,152.00	\$12.70	\$124,866.40	\$19.25	\$189,266.00
32	604	Monitoring Well Adjusted (ODOT Spec)	1	EACH	\$150.00	\$150.00	\$1.05	\$1.05	\$165.00	\$165.00
33	606	Guardrail, Type 5	375	L.F.	\$20.00	\$7,500.00	\$16.05	\$6,018.75	\$17.00	\$6,375.00
34	606	Anchor Assembly, Type E-98	2	EACH	\$1,000.00	\$2,000.00	\$2,055.00	\$4,110.00	\$2,000.00	\$4,000.00
35	607	Fence, Type CL, 72 Inch	53	L.F.	\$17.00	\$901.00	\$26.95	\$1,428.35	\$24.00	\$1,272.00
36	622	Monument Boxes	9	EACH	\$480.00	\$4,320.00	\$780.00	\$7,020.00	\$664.00	\$5,976.00
37	SPEC	Work Involving Non-Regulated Materials	100	TON	\$47.00	\$4,700.00	\$49.00	\$4,900.00	\$2.00	\$200.00
38	SPEC	Work Involving Petroleum Contaminated Soils	100	TON	\$68.00	\$6,800.00	\$92.00	\$9,200.00	\$29.00	\$2,900.00

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		4. Shelly & Sands, Inc.		5. Wenger Excavating Inc.	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
39	SPEC	Work Involving Water	500	GAL	\$3.00	\$1,500.00	\$0.35	\$175.00	\$2.00	\$1,000.00
40	SPEC	Work Involving Regulated Water	500	GAL	\$8.00	\$4,000.00	\$0.55	\$275.00	\$24.20	\$12,100.00
EROSION CONTROL										
41	653	Topsoil Furnished & Placed, 4 Inch Thick	3,646	S.Y.	\$3.50	\$12,761.00	\$5.00	\$18,230.00	\$3.00	\$10,938.00
42	659	Lawn Seeding and Mulching	3,646	S.Y.	\$1.50	\$5,469.00	\$1.40	\$5,104.40	\$2.00	\$7,292.00
43	659	Soil Analysis Test (ODOT Spec)	2	EACH	\$55.00	\$110.00	\$55.00	\$110.00	\$189.00	\$378.00
44	659	Repair Seeding And Mulching (ODOT Spec)	182	S.Y.	\$1.00	\$182.00	\$0.55	\$100.10	\$0.50	\$91.00
45	659	Inter-Seeding (ODOT Spec)	182	S.Y.	\$1.00	\$182.00	\$0.55	\$100.10	\$0.50	\$91.00
46	659	Lime (ODOT Spec)	1	AC.	\$100.00	\$100.00	\$42.36	\$42.36	\$332.00	\$332.00
47	659	Commercial Fertilizer (ODOT Spec)	1	TON	\$320.00	\$320.00	\$950.00	\$950.00	\$400.00	\$400.00
48	659	Water	20	M. GAL	\$1.00	\$20.00	\$32.00	\$640.00	\$6.00	\$120.00
49	832	Erosion Control (ODOT Spec)	30,369	EACH	\$1.00	\$30,369.00	\$1.00	\$30,369.00	\$1.00	\$30,369.00
50	832	Storm Water Pollution Prevention Plan (ODOT Spec)	1	LUMP	\$6,500.00	\$6,500.00	\$14,885.00	\$14,885.00	\$6,577.00	\$6,577.00
51	835	Exfiltration Trench, Type A (ODOT Spec)	108	L.F.	\$99.00	\$10,692.00	\$118.00	\$12,744.00	\$77.00	\$8,316.00
52	835	Exfiltration Trench, Type C (ODOT Spec)	16	L.F.	\$153.00	\$2,448.00	\$124.00	\$1,984.00	\$77.00	\$1,232.00
DRAINAGE										
53	254	12" Storm Sewer Ductile Iron Pipe, As Per Plan	119	L.F.	\$52.00	\$6,188.00	\$74.00	\$8,806.00	\$78.40	\$9,329.60
54	552	4" Storm Sewer, Type B, Class "B" Bedding (for Underdrain	310	L.F.	\$12.00	\$3,720.00	\$22.00	\$6,820.00	\$6.90	\$2,139.00
55	552	6" Storm Sewer, Type B, Class "B" Bedding	10	L.F.	\$15.00	\$150.00	\$62.00	\$620.00	\$15.40	\$154.00
56	552	8" Storm Sewer, Type B, Class "B" Bedding	15	L.F.	\$20.00	\$300.00	\$48.00	\$720.00	\$18.90	\$283.50
57	552	12" Storm Sewer, Type A, Class "B" Bedding	318	L.F.	\$45.00	\$14,310.00	\$57.00	\$18,126.00	\$54.70	\$17,394.60
58	553	12" Inlet Connection, Type A, Class "B" Bedding	848	L.F.	\$42.00	\$35,616.00	\$59.00	\$50,032.00	\$55.80	\$47,318.40
59	553	12" Inlet Connection, Ductile Iron Pipe	626	L.F.	\$52.00	\$32,552.00	\$75.00	\$46,950.00	\$79.20	\$49,579.20
60	556	House Drain Pipe, Complete	48	EACH	\$30.00	\$1,440.00	\$240.00	\$11,520.00	\$59.00	\$2,832.00
61	562	Manhole MH-2A on 12" Storm Sewer	4	EACH	\$3,000.00	\$12,000.00	\$2,680.00	\$10,720.00	\$2,798.00	\$11,192.00
62	562	Manhole MH-2A Slab Top on 12" Storm Sewer	5	EACH	\$3,000.00	\$15,000.00	\$2,600.00	\$13,000.00	\$2,976.00	\$14,880.00
63	562	Manhole MH-2B on 20" Storm Sewer	1	EACH	\$3,200.00	\$3,200.00	\$2,890.00	\$2,890.00	\$3,242.00	\$3,242.00
64	562	Brick Manhole Adjusted	10	EACH	\$360.00	\$3,600.00	\$290.00	\$2,900.00	\$423.00	\$4,230.00
65	562	Brick Manhole Rebuilt	2	EACH	\$450.00	\$900.00	\$1,080.00	\$2,160.00	\$988.00	\$1,976.00
66	563	Catch Basin Adjusted	2	EACH	\$310.00	\$620.00	\$360.00	\$720.00	\$343.00	\$686.00
67	563	Inlet, No. 3	1	EACH	\$1,200.00	\$1,200.00	\$2,200.00	\$2,200.00	\$1,642.00	\$1,642.00
68	563	Inlet, No. 5	5	EACH	\$1,300.00	\$6,500.00	\$2,500.00	\$12,500.00	\$1,844.00	\$9,220.00
69	563	Inlet, No. 5, Modified	11	EACH	\$1,300.00	\$14,300.00	\$2,040.00	\$22,440.00	\$2,322.00	\$25,542.00
70	563	Inlet, Double No. 5	4	EACH	\$2,400.00	\$9,600.00	\$3,000.00	\$12,000.00	\$2,655.00	\$10,620.00
71	563	Inlet, Double No. 5, Modified	18	EACH	\$2,400.00	\$43,200.00	\$3,200.00	\$57,600.00	\$2,989.00	\$53,802.00
72	564	4" Pipe Underdrains	5,179	L.F.	\$5.50	\$28,484.50	\$7.90	\$40,914.10	\$6.70	\$34,699.30
73	Spec	Miscellaneous Metal	4,700	POUNDS	\$1.00	\$4,700.00	\$1.00	\$4,700.00	\$2.00	\$9,400.00
PAVEMENT										
74	301	4 1/4" Bituminous Aggregate Base (Driveways)	131	C.Y.	\$300.00	\$39,300.00	\$194.00	\$25,414.00	\$188.00	\$24,628.00

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		4. Shelly & Sands, Inc.		5. Wenger Excavating Inc.	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
75	301	4 3/4" Bituminous Aggregate Base	2,333	C.Y.	\$150.00	\$349,950.00	\$105.75	\$246,714.75	\$97.50	\$227,467.50
76	301	6" Bituminous Aggregate Base	3,015	C.Y.	\$100.00	\$301,500.00	\$106.10	\$319,891.50	\$97.50	\$293,962.50
77	304	Aggregate Base	1,973	C.Y.	\$34.00	\$67,082.00	\$48.00	\$94,704.00	\$48.40	\$95,493.20
78	448	Asphalt Concrete, 6" Driveway Reconstruction	89	C.Y.	\$250.00	\$22,250.00	\$113.00	\$10,057.00	\$239.00	\$21,271.00
79	448	Asphalt Concrete, 1 1/4", Driveway Reconstruction	39	C.Y.	\$250.00	\$9,750.00	\$318.50	\$12,421.50	\$252.00	\$9,828.00
80	407	Tack Coat	3,619	GAL	\$2.00	\$7,238.00	\$1.95	\$7,057.05	\$2.25	\$8,142.75
81	410	Drive and Walkway Sealcoat	749	S.Y.	\$1.00	\$749.00	\$1.30	\$973.70	\$5.50	\$4,119.50
82	446	Asphalt Concrete Surface Course, Type 1H, 1 1/2"	737	C.Y.	\$135.00	\$99,495.00	\$171.60	\$126,469.20	\$148.00	\$109,076.00
83	452	6" Plain Portland Cement (Driveways)	436	S.Y.	\$45.00	\$19,620.00	\$46.35	\$20,208.60	\$44.70	\$19,489.20
84	455	Combination Curb and Gutter	4,916	L.F.	\$25.00	\$122,900.00	\$17.35	\$85,292.60	\$16.40	\$80,622.40
85	455	Curb, Type 6"x18"	1,966	L.F.	\$16.00	\$31,456.00	\$14.10	\$27,720.60	\$14.75	\$28,998.50
86	455	Curb, Type 6"x18" With Integral Base	25	L.F.	\$19.00	\$475.00	\$26.40	\$660.00	\$14.75	\$368.75
87	456	Concrete Aprons, 6" Thick	9,314	S.F.	\$4.00	\$37,256.00	\$5.40	\$50,295.60	\$5.00	\$46,570.00
WATER WORKS										
88	202	Water Main Removed - 36"	1,776	L.F.	\$50.00	\$88,800.00	\$38.00	\$67,488.00	\$22.00	\$39,072.00
89	202	Water Valve & Box Removed	1	EACH	\$150.00	\$150.00	\$90.00	\$90.00	\$211.00	\$211.00
90	202	Water Main Access Manhole Removed	1	EACH	\$2,000.00	\$2,000.00	\$645.00	\$645.00	\$877.00	\$877.00
91	202	Air Release Valve Assembly Removed	1	EACH	\$200.00	\$200.00	\$540.00	\$540.00	\$2,122.00	\$2,122.00
92	252	Trenches For Water Services in Earth	821	L.F.	\$18.00	\$14,778.00	\$41.50	\$34,071.50	\$9.20	\$7,553.20
93	252	Disconnect Water Services	6	EACH	\$50.00	\$300.00	\$415.00	\$2,490.00	\$454.00	\$2,724.00
94	252	Meter and Chamber Removed and Reset, As Per Plan	15	EACH	\$350.00	\$5,250.00	\$415.00	\$6,225.00	\$1,121.00	\$16,815.00
95	254	4" Water Main Ductile Iron Pipe	10	L.F.	\$38.00	\$380.00	\$80.00	\$800.00	\$58.50	\$585.00
96	254	6" Water Main Ductile Iron Pipe	171	L.F.	\$41.00	\$7,011.00	\$310.00	\$53,010.00	\$62.40	\$10,670.40
97	254	8" Water Main Ductile Iron Pipe	71	L.F.	\$60.00	\$4,260.00	\$225.00	\$15,975.00	\$66.90	\$4,749.90
98	254	12" Water Main Ductile Iron Pipe	30	L.F.	\$80.00	\$2,400.00	\$158.00	\$4,740.00	\$77.60	\$2,328.00
99	255	36" Prestressed Concrete Cylinder Pipe	1,778	L.F.	\$450.00	\$800,100.00	\$315.00	\$560,070.00	\$143.80	\$255,676.40
100	258	6" Gate Valve & Box	5	EACH	\$900.00	\$4,500.00	\$850.00	\$4,250.00	\$911.00	\$4,555.00
101	258	8" Gate Valve & Box	1	EACH	\$1,000.00	\$1,000.00	\$1,200.00	\$1,200.00	\$1,142.00	\$1,142.00
102	258	12" Gate Valve & Box	3	EACH	\$1,400.00	\$4,200.00	\$2,000.00	\$6,000.00	\$2,133.00	\$6,399.00
103	258	36" Butterfly Valve & Box	1	EACH	\$5,500.00	\$5,500.00	\$22,200.00	\$22,200.00	\$38,763.00	\$38,763.00
104	258	6" Swing Check Valve - Buried	1	EACH	\$1,200.00	\$1,200.00	\$1,300.00	\$1,300.00	\$1,565.00	\$1,565.00
105	259	4" 45 Degree Bend	1	EACH	\$125.00	\$125.00	\$128.00	\$128.00	\$179.00	\$179.00
106	259	6" 45 Degree Bend	16	EACH	\$200.00	\$3,200.00	\$140.00	\$2,240.00	\$213.00	\$3,408.00
107	259	8" 45 Degree Bend	9	EACH	\$250.00	\$2,250.00	\$190.00	\$1,710.00	\$278.00	\$2,502.00
108	259	8" 90 Degree Bend	1	EACH	\$250.00	\$250.00	\$230.00	\$230.00	\$287.00	\$287.00
109	259	8" x 4" Reducer	1	EACH	\$265.00	\$265.00	\$125.00	\$125.00	\$211.00	\$211.00
110	259	6" x 6" Tee	1	EACH	\$200.00	\$200.00	\$670.00	\$670.00	\$324.00	\$324.00
111	259	12" x 6" Tee	4	EACH	\$400.00	\$1,600.00	\$680.00	\$2,720.00	\$544.00	\$2,176.00
112	259	12" x 8" Tee	1	EACH	\$450.00	\$450.00	\$1,020.00	\$1,020.00	\$549.00	\$549.00

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		4. Shelly & Sands, Inc.		5. Wenger Excavating Inc.	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
113	255	36" x 12" PCCP Tee	1	EACH	\$3,500.00	\$3,500.00	\$2,350.00	\$2,350.00	\$12,879.00	\$12,879.00
114	255	36" x 12" PCCP Blowoff Tee	1	EACH	\$3,500.00	\$3,500.00	\$3,465.00	\$3,465.00	\$14,376.00	\$14,376.00
115	259	4" Solid Sleeve	1	EACH	\$110.00	\$110.00	\$85.00	\$85.00	\$168.00	\$168.00
116	259	6" Solid Sleeve	4	EACH	\$120.00	\$480.00	\$110.00	\$440.00	\$243.00	\$972.00
117	259	8" Solid Sleeve	2	EACH	\$160.00	\$320.00	\$170.00	\$340.00	\$324.00	\$648.00
118	259	12" Solid Sleeve	7	EACH	\$245.00	\$1,715.00	\$325.00	\$2,275.00	\$438.00	\$3,066.00
119	260	6" Fire Hydrant	5	EACH	\$450.00	\$2,250.00	\$4,100.00	\$20,500.00	\$3,988.00	\$19,940.00
120	261	Polyethylene Encasement	282	L.F.	\$2.00	\$564.00	\$0.75	\$211.50	\$2.00	\$564.00
121	263	Tying into 4" Main	1	EACH	\$450.00	\$450.00	\$1,875.00	\$1,875.00	\$655.00	\$655.00
122	263	Tying into 6" Main	8	EACH	\$500.00	\$4,000.00	\$940.00	\$7,520.00	\$879.00	\$7,032.00
123	263	Tying into 8" Main	4	EACH	\$600.00	\$2,400.00	\$940.00	\$3,760.00	\$1,099.00	\$4,396.00
124	263	Tying into 12" Main	4	EACH	\$850.00	\$3,400.00	\$940.00	\$3,760.00	\$2,549.00	\$10,196.00
125	263	Tying into 36" Main	2	EACH	\$3,000.00	\$6,000.00	\$13,500.00	\$27,000.00	\$16,785.00	\$33,570.00
126	265	Water Main Valve Box Adjusted	35	EACH	\$125.00	\$4,375.00	\$120.00	\$4,200.00	\$99.00	\$3,465.00
127	267	Fire Hydrant Removed and Disposed of, As Per Plan	5	EACH	\$250.00	\$1,250.00	\$2,700.00	\$13,500.00	\$455.00	\$2,275.00
128	562	Water Manhole Adjusted	2	EACH	\$400.00	\$800.00	\$690.00	\$1,380.00	\$344.00	\$688.00
129	562	Water Main Access Manhole	1	EACH	\$7,500.00	\$7,500.00	\$14,500.00	\$14,500.00	\$3,699.00	\$3,699.00
SANITARY WORK										
130	557	8" Sanitary Sewer, 706.08 with 706.12, Class "B" Bedding	357	L.F.	\$50.00	\$17,850.00	\$170.00	\$60,690.00	\$68.40	\$24,418.80
131	559	6" Pipe Reconnections, Class "B" Bedding	50	L.F.	\$22.00	\$1,100.00	\$76.00	\$3,800.00	\$55.80	\$2,790.00
132	559	6" Pipe Bends, Class "B" Bedding	5	EACH	\$30.00	\$150.00	\$40.00	\$200.00	\$56.00	\$280.00
133	559	8" Pipe Reconnections, Class "B" Bedding	50	L.F.	\$25.00	\$1,250.00	\$78.00	\$3,900.00	\$76.30	\$3,815.00
134	559	8" Pipe Bends, Class "B" Bedding	5	EACH	\$40.00	\$200.00	\$62.00	\$310.00	\$76.00	\$380.00
135	560	6" Long House Laterals, Sanitary, Class "B" Bedding	10	EACH	\$1,250.00	\$12,500.00	\$2,600.00	\$26,000.00	\$244.00	\$2,440.00
136	562	Brick Manhole Adjusted	1	EACH	\$320.00	\$320.00	\$275.00	\$275.00	\$324.00	\$324.00
137	562	Manhole MH-2A on 8" Sanitary Sewer	3	EACH	\$3,200.00	\$9,600.00	\$3,000.00	\$9,000.00	\$3,247.00	\$9,741.00
LIGHTING										
Fiberglass Light Pole w/ Luminaire, (12' Fluted Pole w/ 80 Watt LED Acorn Post Top Luminaire), Complete and In										
138	625	Place	30	EACH	\$3,500.00	\$105,000.00	\$2,863.00	\$85,890.00	\$3,000.00	\$90,000.00
139	625	4 Unit Mole Connector	34	EACH	\$100.00	\$3,400.00	\$53.00	\$1,802.00	\$60.00	\$2,040.00
140	625	No. 4 AWG 600 Volt Cable Distribution Cable	12,790	L.F.	\$4.00	\$51,160.00	\$1.45	\$18,545.50	\$2.00	\$25,580.00
141	625	Conduit, 2 inch, 713.07	4,388	L.F.	\$7.00	\$30,716.00	\$2.00	\$8,776.00	\$2.50	\$10,970.00
142	625	Conduit, 3 inch, 713.07 Encased	327	L.F.	\$12.00	\$3,924.00	\$6.00	\$1,962.00	\$6.00	\$1,962.00
143	625	Trench	4,388	L.F.	\$5.00	\$21,940.00	\$4.40	\$19,307.20	\$4.50	\$19,746.00
144	625	Trench in Paved Areas, Type B	327	L.F.	\$27.00	\$8,829.00	\$57.00	\$18,639.00	\$58.00	\$18,966.00
145	625	Pull Box, 18"x24"x18" Reinforced Polymer Concrete	11	EACH	\$483.00	\$5,313.00	\$460.00	\$5,060.00	\$455.00	\$5,005.00
146	625	High Voltage Test	1	L.S.	\$3,000.00	\$3,000.00	\$1,650.00	\$1,650.00	\$1,781.00	\$1,781.00
147	625	Control Centers With Metering, Complete and in Place	6	EACH	\$7,500.00	\$45,000.00	\$4,070.00	\$24,420.00	\$4,100.00	\$24,600.00

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		4. Shelly & Sands, Inc.		5. Wenger Excavating Inc.	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
148	625	Lighting Misc.: Power Service, As Per Plan	6	EACH	\$2,500.00	\$15,000.00	\$405.00	\$2,430.00	\$412.00	\$2,472.00
TRAFFIC CONTROL										
149	621	Lane Lines, 4 Inch	1.02	MILE	\$600.00	\$612.00	\$845.00	\$861.90	\$1,123.00	\$1,145.46
150	621	Center Lines, Solid, Double	0.57	MILE	\$850.00	\$484.50	\$1,268.00	\$722.76	\$1,767.00	\$1,007.19
151	621	Channelizing Lines	985	L.F.	\$1.00	\$985.00	\$0.50	\$492.50	\$1.00	\$985.00
152	621	Crosswalk Lines	858	L.F.	\$3.00	\$2,574.00	\$1.85	\$1,587.30	\$3.00	\$2,574.00
153	621	Stop Lines, 24 Inch	384	L.F.	\$4.00	\$1,536.00	\$2.65	\$1,017.60	\$4.00	\$1,536.00
154	621	Transverse Lines, Yellow, 24" @ 12' O.C.	38	L.F.	\$3.00	\$114.00	\$2.65	\$100.70	\$3.50	\$133.00
155	621	Island Marking, Yellow	21	S.F.	\$2.00	\$42.00	\$2.10	\$44.10	\$3.00	\$63.00
156	621	Lane Arrows	8	EACH	\$65.00	\$520.00	\$42.26	\$338.08	\$179.00	\$1,432.00
157	621	Edge Lines, White	51	L.F.	\$3.00	\$153.00	\$1.05	\$53.55	\$1.90	\$96.90
158	621	Dotted Lines, 4 Inch	169	L.F.	\$3.00	\$507.00	\$2.10	\$354.90	\$1.00	\$169.00
159	629	Street Name Sign Assembly on Mast Arm	1	EACH	\$230.00	\$230.00	\$580.00	\$580.00	\$564.00	\$564.00
160	629	Street Name Sign	16	EACH	\$115.00	\$1,840.00	\$130.00	\$2,080.00	\$136.00	\$2,176.00
161	629	Street Name Sign Pole	8	EACH	\$170.00	\$1,360.00	\$170.00	\$1,360.00	\$170.00	\$1,360.00
162	630	Overhead Sign Support, Type TC-16.20, Design 12, Span 4	1	EACH	\$8,200.00	\$8,200.00	\$7,790.00	\$7,790.00	\$8,129.00	\$8,129.00
163	630	Rigid Overhead Sign Support Foundation	1	EACH	\$2,900.00	\$2,900.00	\$2,720.00	\$2,720.00	\$2,922.00	\$2,922.00
164	630	Removal of Overhead Mounted Sign and Re-Erection	7	EACH	\$212.00	\$1,484.00	\$210.00	\$1,470.00	\$421.00	\$2,947.00
165	630	Removal of Pole Mounted Sign and Re-Erection	4	EACH	\$31.00	\$124.00	\$142.00	\$568.00	\$152.00	\$608.00
166	630	Ground Mounted Supports, No. 2 Post	259	L.F.	\$6.50	\$1,683.50	\$6.90	\$1,787.10	\$7.00	\$1,813.00
167	630	Ground Mounted Supports, No. 3 Post	289	L.F.	\$7.00	\$2,023.00	\$7.90	\$2,283.10	\$8.00	\$2,312.00
168	630	Removal of Ground Mounted Sign and Storage	48	EACH	\$15.00	\$720.00	\$10.50	\$504.00	\$13.00	\$624.00
169	630	Removal of Ground Mounted Sign and Re-Erection	24	EACH	\$37.00	\$888.00	\$37.00	\$888.00	\$39.00	\$936.00
170	630	Removal of Ground Mounted Post Support	44	EACH	\$24.00	\$1,056.00	\$10.50	\$462.00	\$11.00	\$484.00
171	630	Sign Support Assembly, Pole	14	EACH	\$71.00	\$994.00	\$90.00	\$1,260.00	\$89.00	\$1,246.00
172	630	Sign Hanger Assembly, Mast Arm	19	EACH	\$280.00	\$5,320.00	\$205.00	\$3,895.00	\$200.00	\$3,800.00
173	630	Sign Flat Sheet	327	S.F.	\$16.00	\$5,232.00	\$16.00	\$5,232.00	\$17.00	\$5,559.00
TRAFFIC SIGNALS										
174	514	Field Painting Existing Steel, As Per Plan	1	L.S.	\$750.00	\$750.00	\$2,305.00	\$2,305.00	\$2,769.00	\$2,769.00
175	625	Trench	10	L.F.	\$5.00	\$50.00	\$4.45	\$44.50	\$4.50	\$45.00
176	625	Trench in Paved Areas, Type A	529	L.F.	\$41.00	\$21,689.00	\$33.80	\$17,880.20	\$35.00	\$18,515.00
177	625	Trench in Paved Areas, Type B	370	L.F.	\$41.00	\$15,170.00	\$57.00	\$21,090.00	\$61.00	\$22,570.00
178	625	Fiber Optic Cable Warning Tape	2,400	L.F.	\$0.50	\$1,200.00	\$0.60	\$1,440.00	\$1.00	\$2,400.00
179	625	Handhole, 13"x24"x15" Polymer Concrete	3	EACH	\$600.00	\$1,800.00	\$417.00	\$1,251.00	\$400.00	\$1,200.00
180	625	Ground Rod	10	EACH	\$177.00	\$1,770.00	\$116.00	\$1,160.00	\$110.00	\$1,100.00
181	625	Ground Rod, As Per Plan	3	EACH	\$190.00	\$570.00	\$123.00	\$369.00	\$116.00	\$348.00
182	625	Special - Plastic Caution Tape Vehicular Signal Head, (LED), 3-Section, 12" LENS, 1	900	L.F.	\$0.50	\$450.00	\$0.48	\$432.00	\$0.60	\$540.00
183	632	Way, Polycarbonate, As Per Plan	23	EACH	\$740.00	\$17,020.00	\$615.00	\$14,145.00	\$602.00	\$13,846.00

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE PRICE	AMOUNT	4. Shelly & Sands, Inc. PRICE	AMOUNT	5. Wenger Excavating Inc. PRICE	AMOUNT
184	632	Vehicular Signal Head, (LED), 5-Section, 12" LENS, 1 Way, Polycarbonate, As Per Plan	9	EACH	\$1,200.00	\$10,800.00	\$970.00	\$8,730.00	\$1,032.00	\$9,288.00
185	632	Pedestrian Signal Head, (LED), Countdown, Type D2, As P	8	EACH	\$530.00	\$4,240.00	\$485.00	\$3,880.00	\$472.00	\$3,776.00
186	632	Covering of Vehicular Signal Head	23	EACH	\$25.00	\$575.00	\$31.70	\$729.10	\$33.00	\$759.00
187	632	Covering of Pedestrian Signal Head	8	EACH	\$12.00	\$96.00	\$21.00	\$168.00	\$22.00	\$176.00
188	632	Conduit, 2", 713.07	45	L.F.	\$6.00	\$270.00	\$2.00	\$90.00	\$2.00	\$90.00
189	632	Conduit, 3", 713.07	529	L.F.	\$7.00	\$3,703.00	\$3.15	\$1,666.35	\$3.20	\$1,692.80
190	632	Conduit, 3", 713.07 Encased (Traffic)	370	L.F.	\$15.00	\$5,550.00	\$6.00	\$2,220.00	\$6.00	\$2,220.00
191	632	Pedestrian Push Button, As Per Plan	8	EACH	\$140.00	\$1,120.00	\$145.00	\$1,160.00	\$151.00	\$1,208.00
192	632	Pull Box, Misc.: Pullbox, 713.06, 24" x 36" x 24" Deep	8	EACH	\$725.00	\$5,800.00	\$718.00	\$5,744.00	\$698.00	\$5,584.00
193	632	Pull Box, Misc.: Pullbox, 713.06, 30" x 48" x 24" Deep	3	EACH	\$1,100.00	\$3,300.00	\$998.00	\$2,994.00	\$1,062.00	\$3,186.00
194	632	Signal Cable, 5 Conductor, No.14 AWG	422	L.F.	\$2.00	\$844.00	\$1.50	\$633.00	\$1.60	\$675.20
195	632	Signal Cable, 7 Conductor, No.14 AWG	4,051	L.F.	\$2.50	\$10,127.50	\$1.65	\$6,684.15	\$2.00	\$8,102.00
196	632	Interconnect Cable, Misc.: Drop Cable, 6 Fiber	30	L.F.	\$2.00	\$60.00	\$36.40	\$1,092.00	\$35.00	\$1,050.00
197	632	Interconnect Cable, Misc.: Trunk Cable, 24 Fiber, Loose Tu	2,370	L.F.	\$4.00	\$9,480.00	\$1.85	\$4,384.50	\$2.00	\$4,740.00
198	632	Interconnect, Misc.: Fusion Splice	66	EACH	\$22.00	\$1,452.00	\$21.00	\$1,386.00	\$23.00	\$1,518.00
199	632	Interconnect, Misc.: Terminal Panel, Controller Cabinet	3	EACH	\$260.00	\$780.00	\$340.00	\$1,020.00	\$332.00	\$996.00
200	632	Interconnect, Misc.: Fiber Optic Connector	18	EACH	\$30.00	\$540.00	\$33.00	\$594.00	\$36.00	\$648.00
201	632	Interconnect, Misc.: Fan Out Kit, 6 Fiber	3	EACH	\$28.00	\$84.00	\$40.00	\$120.00	\$55.00	\$165.00
202	632	Interconnect, Misc.: Splice Enclosure	3	EACH	\$260.00	\$780.00	\$325.00	\$975.00	\$370.00	\$1,110.00
203	632	Interconnect, Misc.: Slack Installation	8	EACH	\$300.00	\$2,400.00	\$540.00	\$4,320.00	\$522.00	\$4,176.00
204	632	Interconnect, Misc.: Fiber Optic Patch Cord, 4 Fiber	3	EACH	\$107.00	\$321.00	\$82.00	\$246.00	\$81.00	\$243.00
205	632	Interconnect, Misc.: Fiber Optic Cable Testing	1	L.S.	\$565.00	\$565.00	\$975.00	\$975.00	\$940.00	\$940.00
206	632	Interconnect, Misc.: Training Plan	1	L.S.	\$15,000.00	\$15,000.00	\$15,800.00	\$15,800.00	\$15,400.00	\$15,400.00
207	632	Signal Support Foundation	10	EACH	\$2,500.00	\$25,000.00	\$2,065.00	\$20,650.00	\$1,978.00	\$19,780.00
208	632	Pedestal Foundation	1	EACH	\$570.00	\$570.00	\$360.00	\$360.00	\$350.00	\$350.00
209	632	Power Cable, 3 Conductor, No. 4 AWG	45	L.F.	\$4.00	\$180.00	\$3.40	\$153.00	\$6.00	\$270.00
210	632	Combination Signal Support, Type TC -81.20, Design 12 Pole with Design 2 Arm and Design 11 Arm, (With Light Pole Extension), As Per Plan	1	EACH	\$7,800.00	\$7,800.00	\$10,300.00	\$10,300.00	\$9,942.00	\$9,942.00
211	632	Combination Signal Support, Type TC -12.30, Design 5 Pole with Design 4 Arm and Design 4 Arm, (With Light Pole Extension), As Per Plan	1	EACH	\$7,500.00	\$7,500.00	\$10,450.00	\$10,450.00	\$10,248.00	\$10,248.00
212	632	Combination Signal Support, Type TC -81.20, Design 3 Pole with Design 1 Arm and Design 2 Arm, (With Light Pole Extension), As Per Plan	1	EACH	\$7,300.00	\$7,300.00	\$6,700.00	\$6,700.00	\$6,911.00	\$6,911.00
213	632	Combination Signal Support, Type TC -81.20, Design 4 Pole with Design 4 Arm (With Light Pole Extension), As Per Plan	2	EACH	\$5,300.00	\$10,600.00	\$7,000.00	\$14,000.00	\$7,815.00	\$15,630.00

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE PRICE	ENGINEER'S ESTIMATE AMOUNT	4. Shelly & Sands, Inc. PRICE	4. Shelly & Sands, Inc. AMOUNT	5. Wenger Excavating Inc. PRICE	5. Wenger Excavating Inc. AMOUNT
		Combination Signal Support, Type TC -12.30, Design 5 Pole with Design 4 Arm and Design 11 Arm, (With Light Pole Extension), As Per Plan								
214	632		1	EACH	\$6,400.00	\$6,400.00	\$9,930.00	\$9,930.00	\$9,838.00	\$9,838.00
215	632	Signal Support, Type TC-81.20, Design 2, As Per Plan	1	EACH	\$2,600.00	\$2,600.00	\$4,600.00	\$4,600.00	\$5,060.00	\$5,060.00
216	632	Signal Support, Type TC-81.20, Design 11, As Per Plan	3	EACH	\$4,300.00	\$12,900.00	\$8,000.00	\$24,000.00	\$7,791.00	\$23,373.00
217	632	Pedestal, 8' Transformer Base	1	EACH	\$443.00	\$443.00	\$446.00	\$446.00	\$448.00	\$448.00
218	632	Removal of Traffic Signal Installation, As Per Plan	4	EACH	\$1,600.00	\$6,400.00	\$2,200.00	\$8,800.00	\$2,219.00	\$8,876.00
219	632	Relocate Vehicular Signal Head	10	EACH	\$400.00	\$4,000.00	\$315.00	\$3,150.00	\$328.00	\$3,280.00
220	632	Relocate Pedestrian Signal Head	4	EACH	\$200.00	\$800.00	\$210.00	\$840.00	\$411.00	\$1,644.00
221	632	Relocate Pedestrian Pushbutton	4	EACH	\$100.00	\$400.00	\$120.00	\$480.00	\$127.00	\$508.00
222	632	Signalization, Misc.: Preemption Detector with Confirmation	3	EACH	\$8,500.00	\$25,500.00	\$3,528.00	\$10,584.00	\$3,886.00	\$11,658.00
223	632	Signalization, Misc.: Preemption Detector with Confirmation	1	EACH	\$1,000.00	\$1,000.00	\$1,452.00	\$1,452.00	\$1,552.00	\$1,552.00
224	632	Signalization, Misc.: Video Detection Unit, Relocated	1	EACH	\$4,500.00	\$4,500.00	\$2,181.00	\$2,181.00	\$2,387.00	\$2,387.00
225	632	Signalization, Misc.: Video Detection Unit, As Per Plan	11	EACH	\$6,500.00	\$71,500.00	\$5,480.00	\$60,280.00	\$5,847.00	\$64,317.00
226	632	Signalization, Misc.: Expansion of ICONS System	1	L.S.	\$20,000.00	\$20,000.00	\$6,655.00	\$6,655.00	\$7,532.00	\$7,532.00
227	633	Testing and Certification of Malfunction Management Unit	3	EACH	\$350.00	\$1,050.00	\$58.00	\$174.00	\$60.00	\$180.00
228	633	Controller Unit, Type TS2/A2, with Cabinet, Type TS1, As P	3	EACH	\$6,300.00	\$18,900.00	\$12,500.00	\$37,500.00	\$12,300.00	\$36,900.00
229	633	Cabinet Foundation, As Per Plan	3	EACH	\$1,200.00	\$3,600.00	\$1,230.00	\$3,690.00	\$1,300.00	\$3,900.00
230	633	Controller Work Pad	1	EACH	\$250.00	\$250.00	\$260.00	\$260.00	\$268.00	\$268.00
231	633	Controller Item, Misc.: Fiber Optic Transceiver, Single Mod	3	EACH	\$600.00	\$1,800.00	\$1,540.00	\$4,620.00	\$1,786.00	\$5,358.00
232	633	Controller Item, Misc.: Preemption Priority Control	3	EACH	\$5,500.00	\$16,500.00	\$3,900.00	\$11,700.00	\$4,167.00	\$12,501.00
233	633	Controller Item, Misc.: Fiber Optic Ethernet Transceiver, As	3	EACH	\$2,450.00	\$7,350.00	\$3,100.00	\$9,300.00	\$2,987.00	\$8,961.00
234	633	Controller Item, Misc.: Uninterruptible Power Supply (UPS),	3	EACH	\$6,600.00	\$19,800.00	\$4,600.00	\$13,800.00	\$4,865.00	\$14,595.00
235	633	Controller Item, Misc.: Fiber Optic Installation Kit	1	EACH	\$9,000.00	\$9,000.00	\$7,200.00	\$7,200.00	\$7,076.00	\$7,076.00
236	633	Controller Item, Misc.: Fire Station Preemption, As Per plan	1	L.S.	\$2,000.00	\$2,000.00	\$800.00	\$800.00	\$777.00	\$777.00
237	633	Controller Item, Misc.: Home Avenue Signal Intersection Im	1	L.S.	\$11,100.00	\$11,100.00	\$16,300.00	\$16,300.00	\$16,119.00	\$16,119.00
238	633	Controller Item, Misc.: Gorge Boulevard Signal Intersection	1	L.S.	\$6,600.00	\$6,600.00	\$8,200.00	\$8,200.00	\$7,864.00	\$7,864.00
239	633	Controller Item, Misc.: Misc. Controller Equipment	1	L.S.	\$10,800.00	\$10,800.00	\$7,700.00	\$7,700.00	\$7,449.00	\$7,449.00
TRAFFIC AND COMMUNICATIONS										
240	625	Trench	5,000	L.F.	\$5.00	\$25,000.00	\$4.40	\$22,000.00	\$5.00	\$25,000.00
241	625	Trench in Paved Areas, Type A	244	L.F.	\$41.00	\$10,004.00	\$34.00	\$8,296.00	\$36.00	\$8,784.00
242	625	Trench in Paved Areas, Type B	211	L.F.	\$41.00	\$8,651.00	\$57.00	\$12,027.00	\$61.00	\$12,871.00
243	632	Conduit, 3", 713.07	5,244	L.F.	\$7.00	\$36,708.00	\$2.00	\$10,488.00	\$2.20	\$11,536.80
244	632	Conduit, 3", 713.07 Encased (Traffic)	211	L.F.	\$15.00	\$3,165.00	\$5.00	\$1,055.00	\$5.00	\$1,055.00
245	632	Pull Box, Misc.: Pullbox, 713.06, 24" x 36" x 24" Deep	21	EACH	\$725.00	\$15,225.00	\$720.00	\$15,120.00	\$734.00	\$15,414.00
LANDSCAPING										
246	663	Tree Planting w/Grate, Skyline Honey Locust 3" BB (Gledit	54	EACH	\$1,300.00	\$70,200.00	\$1,300.00	\$70,200.00	\$1,659.00	\$89,586.00
247	669	Protecting Trees	1	L.S.	\$1,000.00	\$1,000.00	\$1,050.00	\$1,050.00	\$1,132.00	\$1,132.00
RETAINING WALLS										

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		4. Shelly & Sands, Inc.		5. Wenger Excavating Inc.	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
248	611	Modular Block Wall (Rustic Red)	1,485	S.F.	\$40.00	\$59,400.00	\$34.75	\$51,603.75	\$37.50	\$55,687.50
MAINTENANCE OF TRAFFIC										
249	410	Traffic Compacted Surface, Type A or B (ODOT Spec)	709	C.Y.	\$24.00	\$17,016.00	\$65.00	\$46,085.00	\$44.60	\$31,621.40
250	613	Uniformed Law Enforcement Officer	600	Hours	\$38.00	\$22,800.00	\$38.00	\$22,800.00	\$38.00	\$22,800.00
251	613	Uniformed Law Enforcement Officer with Patrol Car	600	Hours	\$56.00	\$33,600.00	\$56.00	\$33,600.00	\$56.00	\$33,600.00
252	614	Maintaining Traffic	1	L.S.	\$45,000.00	\$45,000.00	\$75,000.00	\$75,000.00	\$248,764.00	\$248,764.00
253	614	Work Zone Edge Line, Class I, 642 Paint (ODOT Spec)	2	MILE	\$1,000.00	\$2,000.00	\$1,055.00	\$2,110.00	\$1,254.00	\$2,508.00
254	614	Work Zone Channelizing Line, Class I, 642 Paint (ODOT Sp	626	FT	\$20.00	\$12,520.00	\$0.80	\$500.80	\$1.50	\$939.00
255	614	Work Zone Center Line, Class I, 642 Paint (ODOT Spec)	1	MILE	\$1,500.00	\$1,500.00	\$1,600.00	\$1,600.00	\$1,988.00	\$1,988.00
256	614	Work Zone Stop Line, Class I, 642 Paint (ODOT Spec)	228	FT	\$10.00	\$2,280.00	\$2.00	\$456.00	\$4.50	\$1,026.00
257	614	Portable Changeable Message Sign, As Per Plan	36	SIGN MONTH	\$700.00	\$25,200.00	\$960.00	\$34,560.00	\$658.00	\$23,688.00
258	615	Temporary Pavement	50	S.Y.	\$73.00	\$3,650.00	\$97.00	\$4,850.00	\$44.70	\$2,235.00
259	615	Temporary Walks	2,200	S.F.	\$3.00	\$6,600.00	\$3.00	\$6,600.00	\$2.80	\$6,160.00
260	616	Water	50	M. GAL	\$30.00	\$1,500.00	\$44.00	\$2,200.00	\$6.00	\$300.00
261	616	Calcium Chloride	15	TON	\$120.00	\$1,800.00	\$350.00	\$5,250.00	\$549.00	\$8,235.00
MISC.										
262	103.05	Contract Performance Bond	1	L.S.	\$30,000.00	\$30,000.00	\$18,000.00	\$18,000.00	\$69,727.00	\$69,727.00
263	619	Field Office, Type B (ODOT Spec), As per plan	14	MONTH	\$1,300.00	\$18,200.00	\$1,500.00	\$21,000.00	\$1,657.00	\$23,198.00
264	623	Construction Layout Stakes	1	L.S.	\$25,000.00	\$25,000.00	\$22,000.00	\$22,000.00	\$68,427.00	\$68,427.00
265	624	Mobilization	1	L.S.	\$54,000.00	\$54,000.00	\$30,000.00	\$30,000.00	\$137,327.00	\$137,327.00
ALTERNATE #1										
ALT#1	632	Interconnect Cable Misc.: Trunk Cable, 48 Fiber, Loose Tube, Single Mode	2,370	L.F.	\$6.00	\$14,220.00	\$3.30	\$7,821.00	\$2.25	\$5,332.50
ALTERNATE #2										
ALT#2	632	Signalization Misc.: Video Detection Unit, As Per Plan, Autoscope Solo Terra	11	EACH	\$7,000.00	\$77,000.00	\$5,480.00	\$60,280.00	\$5,333.00	\$58,663.00
ALTERNATE #3										
ALT#3	633	Controller Item, Misc.: Preemption Priority Control, Sonem 2000	3	EACH	\$8,200.00	\$24,600.00	\$7,400.00	\$22,200.00	\$6,639.00	\$19,917.00
ALTERNATE #4										
ALT#4	633	Controller Item, Misc.: Uninterruptible Power Supply (UPS),	3	EACH	\$6,600.00	\$19,800.00	\$4,200.00	\$12,600.00	\$7,455.00	\$22,365.00

BID TAB FOR: Tallmadge Avenue Widening

FILE NO. 2003-010-00

BID DATE: August 17, 2010

CODE: 41299-B03008

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE PRICE	ENGINEER'S ESTIMATE AMOUNT	4. Shelly & Sands, Inc. PRICE	4. Shelly & Sands, Inc. AMOUNT	5. Wenger Excavating Inc. PRICE	5. Wenger Excavating Inc. AMOUNT
TOTAL CONSTRUCTION COSTS								\$4,422,829.00	\$4,356,662.30	\$4,547,567.20
+/- ENGINEER'S ESTIMATE									-1.5%	+2.8%
ALTERNATE #1										
TOTAL CONSTRUCTION COSTS								\$14,220.00	\$7,821.00	\$5,332.50
+/- ENGINEER'S ESTIMATE									-45.0%	-62.5%
ALTERNATE #2										
TOTAL CONSTRUCTION COSTS								\$77,000.00	\$60,280.00	\$58,663.00
+/- ENGINEER'S ESTIMATE									-21.7%	-23.8%
ALTERNATE #3										
TOTAL CONSTRUCTION COSTS								\$24,600.00	\$22,200.00	\$19,917.00
+/- ENGINEER'S ESTIMATE									-9.8%	-19.0%
ALTERNATE #4										
TOTAL CONSTRUCTION COSTS								\$19,800.00	\$12,600.00	\$22,365.00
+/- ENGINEER'S ESTIMATE									-36.4%	+13.0%