

ORDINANCE NO. 43-25

AN ORDINANCE TO AWARD A BID FOR THE STATE ROUTE 83 & STATE ROUTE 254 INTERSECTION IMPROVEMENT PROJECT, PID 111283 LOR SR 0254 05.66, AND DECLARING AN EMERGENCY

WHEREAS, the Ohio Department of Transportation (ODOT) has studied and recommended certain safety improvements along the State Route 83 (Center Road) and State Route 254 (Detroit Road) corridors in the vicinity of the Center Road & Detroit Road intersection; and

WHEREAS, the City of Avon identified additional traffic flow capacity enhancements such as additional turn lanes, traffic signals, communication conduits, and street lighting to also be included in a singular project along with the ODOT identified safety improvements; and

WHEREAS, the City of Avon entered into an ODOT Local Public Agency (LPA) Agreement to construct the State Route 83 & State Route 254 Intersection Improvement Project, otherwise known as PID 111283, LOR SR 0254 05.66 via the passage of Ordinance No. 77-24 on July 8, 2024; and

WHEREAS, the City of Avon entered into an addendum to the aforementioned ODOT Local Public Agency (LPA) Agreement for the State Route 83 & State Route 254 Intersection Improvement Project via the passage of Ordinance No. 24-25 on April 14, 2025; and

WHEREAS, the LOR SR 0254 05.66 project includes: improvements to the Healthway Drive, French Creek Square, Old Center Road, Avon Commons Drive, and City Centre intersections; the addition of a through lane on Detroit Road from 580 feet west of Healthway Drive to 800 feet east of Avon Commons Drive; the addition of a through lane on Center Road from 1,270 feet south of Detroit Road to 800 feet north of Detroit Road; the widening of the Detroit Road and Center Road intersection to accommodate a dedicated right turn lane in all directions, two dedicated left turn lanes on Center Road in both directions, two dedicated left turn lanes on Detroit Road in the east direction, one dedicated left turn lanes on Detroit Road in the west direction, and the installation of a traffic signal system at the State Route 83 & City Centre West Drive intersection; the installation of visibility countermeasures and emergency vehicle preemption; installation of streetlights and communication conduits along State Route 254 and all appurtenances thereto; and

WHEREAS, the City of Avon has been awarded \$5,076,873.00 in ODOT Safety Program funds and a \$1,500,000 Congressional Direct Appropriation for a total of \$6,576,873.00 in federal funds to assist with the project construction costs; and

WHEREAS, Avon City Council passed Resolution R-14-25 on April 14, 2025, which authorized the public bid of said State Route 83 & State Route 254 Intersection Improvement Project; and

WHEREAS, the public bids were opened and read aloud at noon on May 16, 2025, at Avon City Hall, and the following bids were received:

Contractor	Base Bid Total	Alternate Bid Total
Karvo Companies Inc.	\$ 11,225,000.00	\$11,284,550.00
Catts Construction, Inc.	\$ 11,491,826.88	\$11,507,439.88

WHEREAS, the Engineer's Estimated cost for the project was set at \$9,448,000.00. As such, the base bid by Karvo Companies Inc. is approximately 18.8% above the Engineer's Estimate. A copy of the bid tabulation is attached hereto within Exhibit "A"; and

WHEREAS, the project bid included the potential use of eleven alternate bid items including decorative light poles, decorative light fixtures, electrical control boxes, traffic signal cabinets, radar-based traffic detection, traffic controllers, and emergency vehicle detection systems that were identified by the Service Department to match similar existing installations in other areas of the city; and

WHEREAS, the inclusion of the eleven alternate bid items in place of the ODOT standard items that were included in the base bid provides the basis for the Alternate Bid Total amounts shown in the table above and thus the awarded contract value of a construction contract for the project would be \$11,284,550.00 which is approximately 19.4% above the base Engineer's Estimate; and

WHEREAS, the City Engineer has reviewed each of the Bids submitted and is recommending that the bid submitted by Karvo Companies Inc. be considered the lowest and best bid for the State Route 83 & State Route 254 Intersection Improvement Project; a bid review memorandum is attached hereto as part of Exhibit B; and

WHEREAS, City Council finds that it is in the best interest of the health, safety, and welfare of the Community that the City go forward with the awarding of a construction contract including the eleven (11) identified bid alternates to Karvo Companies Inc. in the amount of \$11,284,550.00 as received on May 16, 2025.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF AVON, COUNTY OF LORAIN AND STATE OF OHIO:

Section 1 - That pursuant to public bids received on May 16, 2025 at Avon City Hall for the State Route 83 & State Route 254 Intersection Improvement Project, the bid submitted by Karvo Companies Inc., utilizing the eleven (11) noted alternate bid items, in the amount of Eleven Million, Two Hundred Eighty-Four Thousand, Five Hundred Fifty Dollars and 00/100 Cents (\$11,284,550.00) for the State Route 83 & State Route 254 Intersection Improvement Project, PID 111283, is declared to be the lowest and best bid. The Mayor is hereby authorized to execute a construction contract with that entity. The Finance Director is hereby authorized to make pavement from the SR 254/SR 83 Improvement Fund No. 415.

Section 2- That it is found and determined that all formal actions of the Council of the City of Avon concerning and relating to the adoption of this Ordinance were taken in an open meeting of the Council of the City of Avon and that all deliberations of this City's Council and any of its committees that resulted in those formal actions were in meetings open to the public, in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

Section 3- That this Ordinance is hereby declared to be an emergency measure immediately necessary for the preservation of the public health, safety, and welfare of the citizens of the City of Avon, the immediate emergency being the necessity to undertake and substantially complete the State Route 83 & State Route 254 Intersection Improvement Project prior to the end of the 2026 construction season; therefore, this Ordinance shall be in full force and effect immediately upon its passage and approval by the Mayor.

PASSED: May 27, 2025 DATE SIGNED: May 27, 2025

By: Brian Fischer
Brian Fischer, Council President

DATE APPROVED BY THE MAYOR: May 28, 2025

Bryan K. Jensen
Bryan K. Jensen, Mayor

APPROVED AS TO FORM:

John A. Gasior
John A. Gasior, Law Director

ATTEST:

Barbara J. Brooks
Barbara Brooks
Clerk of Council

Posted: May 29, 2025
Electronically and at City Hall
As Provided by Council

Prepared By:
John A. Gasior, Esq.
Law Director

I, Barbara J. Brooks, Clerk of the Council of the City of Avon, Ohio, hereby certify this document to be a true and exact copy of Ordinance No. 43-25, passed by the Council of said City on May 27, 2025.

IN WITNESS WHEREOF, I have on this 28th day of May 2025, affixed my signature and official seal.

Barbara J. Brooks
Barbara J. Brooks, Clerk of the Council
of the City of Avon, Ohio

BID TABULATION

LOR 254-05.66 SR 83 & 254 INTERSECTION IMPROVEMENT PROJECT

City of Avon

DATE: May 16, 2025

CVE JOB NO. 19415 Engineer's Estimate \$ 9,448,000.00

EXHIBIT A

To Ord. No. 43-25

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
---------	------	-------------	--------------------	------	----------------------	------------------	----------------------	------------------

BASE BID

ROADWAY					KARVO COMPANIES, INC.		CATTS CONSTRUCTION, INC.	
1	201E11000	CLEARING AND GRUBBING	1	LS	\$ 50,000.00	\$ 50,000.00	\$ 18,448.00	\$ 18,448.00
2	202E23001	PAVEMENT REMOVED, AS PER PLAN	8014	SY	\$ 15.00	\$ 120,210.00	\$ 15.00	\$ 120,210.00
3	202E30001	WALK REMOVED, AS PER PLAN	28717	SF	\$ 2.50	\$ 71,792.50	\$ 1.00	\$ 28,717.00
4	202E30800	TRAFFIC ISLAND REMOVED	50	SY	\$ 25.00	\$ 1,250.00	\$ 31.00	\$ 1,550.00
5	202E32001	CURB REMOVED, AS PER PLAN	7170	FT	\$ 20.00	\$ 143,400.00	\$ 5.00	\$ 35,850.00
6	202E35100	PIPE REMOVED, 24" AND UNDER	2477	FT	\$ 25.00	\$ 61,925.00	\$ 5.00	\$ 12,385.00
7	202E35200	PIPE REMOVED, OVER 24"	231	FT	\$ 55.00	\$ 12,705.00	\$ 35.00	\$ 8,085.00
8	202E38000	GUARDRAIL REMOVED	882	FT	\$ 2.40	\$ 2,116.80	\$ 2.50	\$ 2,205.00
9	202E42040	ANCHOR ASSEMBLY REMOVED, TYPE T	1	EACH	\$ 95.00	\$ 95.00	\$ 113.00	\$ 113.00
10	202E42050	ANCHOR ASSEMBLY REMOVED, TYPE B	1	EACH	\$ 150.00	\$ 150.00	\$ 178.00	\$ 178.00
11	202E58000	MANHOLE REMOVED	4	EACH	\$ 500.00	\$ 2,000.00	\$ 195.00	\$ 780.00
12	202E58100	CATCH BASIN REMOVED	63	EACH	\$ 250.00	\$ 15,750.00	\$ 140.00	\$ 8,820.00
13	202E70000	FILL AND PLUG EXISTING CONDUIT	2500	FT	\$ 5.00	\$ 12,500.00	\$ 11.00	\$ 27,500.00
14	202E70110	PIPE CLEANOUT, 24" AND UNDER	2000	FT	\$ 2.50	\$ 5,000.00	\$ 6.00	\$ 12,000.00
15	202E70120	PIPE CLEANOUT, 27" TO 48"	250	FT	\$ 2.50	\$ 625.00	\$ 6.00	\$ 1,500.00

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
16	202E98000	REMOVAL MISC.: MONUMENT SIGN AND LIGHTING	1	LS	\$ 1,000.00	\$ 1,000.00	\$ 3,859.00	\$ 3,859.00
17	202E98200	REMOVAL MISC.: CONDUIT	200	FT	\$ 5.00	\$ 1,000.00	\$ 25.00	\$ 5,000.00
18	202E98200	REMOVAL MISC.: TRAFFIC LANE SEPARATORS	198	FT	\$ 2.00	\$ 396.00	\$ 4.00	\$ 792.00
19	203E10000	EXCAVATION	9853	CY	\$ 20.00	\$ 197,060.00	\$ 34.00	\$ 335,002.00
20	203E20000	EMBANKMENT	8994	CY	\$ 20.00	\$ 179,880.00	\$ 12.00	\$ 107,928.00
21	204E10000	SUBGRADE COMPACTION	19242	SY	\$ 1.75	\$ 33,673.50	\$ 1.00	\$ 19,242.00
22	204E13000	EXCAVATION OF SUBGRADE	1148	CY	\$ 22.00	\$ 25,256.00	\$ 10.00	\$ 11,480.00
23	204E21000	GRANULAR EMBANKMENT	1244	CY	\$ 75.00	\$ 93,300.00	\$ 7.00	\$ 8,708.00
24	204E45000	PROOF ROLLING	9	HOUR	\$ 250.00	\$ 2,250.00	\$ 255.00	\$ 2,295.00
25	204E50000	GEOTEXTILE FABRIC	2274	SY	\$ 3.00	\$ 6,822.00	\$ 3.00	\$ 6,822.00
26	606E15050	GUARDRAIL, TYPE MGS	1025	FT	\$ 21.60	\$ 22,140.00	\$ 25.00	\$ 25,625.00
27	606E26050	ANCHOR ASSEMBLY, MGS TYPE B	2	EACH	\$ 2,685.00	\$ 5,370.00	\$ 3,200.00	\$ 6,400.00
28	608E10001	4" CONCRETE WALK, AS PER PLAN	36498	SF	\$ 7.00	\$ 255,486.00	\$ 7.50	\$ 273,735.00
29	608E20000	2" ASPHALT CONCRETE WALK	3000	SF	\$ 1.00	\$ 3,000.00	\$ 2.00	\$ 6,000.00
30	608E52000	CURB RAMP	4246	SF	\$ 15.00	\$ 63,690.00	\$ 19.00	\$ 80,674.00
31	623E39500	MONUMENT ASSEMBLY ADJUSTED TO GRADE	5	EACH	\$ 1,000.00	\$ 5,000.00	\$ 1,000.00	\$ 5,000.00
32	690E50100	MAILBOX SUPPORT SYSTEM, SINGLE	10	EACH	\$ 260.00	\$ 2,600.00	\$ 378.00	\$ 3,780.00
33	690E98000	MAILBOX	2	EACH	\$ 200.00	\$ 400.00	\$ 100.00	\$ 200.00
					SECTION TOTAL	\$ 1,397,842.80	SECTION TOTAL	\$ 1,180,883.00

EROSION CONTROL	KARVO COMPANIES, INC.	CATT'S CONSTRUCTION, INC.
-----------------	-----------------------	---------------------------

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
34	601E21050	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	8	SY	\$ 100.00	\$ 800.00	\$ 61.00	\$ 488.00
35	659E00100	SOIL ANALYSIS TEST	2	EACH	\$ 400.00	\$ 800.00	\$ 1.00	\$ 2.00
36	659E00300	TOPSOIL	1239	CY	\$ 50.00	\$ 61,950.00	\$ 45.00	\$ 55,755.00
37	659E10000	SEEDING AND MULCHING	10370	SY	\$ 1.30	\$ 13,481.00	\$ 1.00	\$ 10,370.00
38	659E14000	REPAIR SEEDING AND MULCHING	519	SY	\$ 4.00	\$ 2,076.00	\$ 0.50	\$ 259.50
39	659E15000	INTER-SEEDING	519	SY	\$ 0.01	\$ 5.19	\$ 1.01	\$ 524.19
40	659E20000	COMMERCIAL FERTILIZER	1.45	TON	\$ 1,400.00	\$ 2,030.00	\$ 1.00	\$ 1.45
41	659E31000	LIME	2.15	ACRE	\$ 0.01	\$ 0.02	\$ 1.00	\$ 2.15
42	659E35000	WATER	58	MGAL	\$ 60.00	\$ 3,480.00	\$ 1.00	\$ 58.00
43	659E40000	MOWING	24	MSF	\$ 0.01	\$ 0.24	\$ 1.00	\$ 24.00
44	670E00500	SLOPE EROSION PROTECTION	462	SY	\$ 3.00	\$ 1,386.00	\$ 0.99	\$ 457.38
45	670E00700	DITCH EROSION PROTECTION	510	SY	\$ 3.00	\$ 1,530.00	\$ 1.00	\$ 510.00
46	832E15002	STORM WATER POLLUTION PREVENTION PLAN	1	LS	\$ 10,000.00	\$ 10,000.00	\$ 4,258.00	\$ 4,258.00
47	832E15002	STORM WATER POLLUTION PREVENTION INSPECTIONS	1	LS	\$ 25,000.00	\$ 25,000.00	\$ 15,254.00	\$ 15,254.00
48	832E15010	STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	1	LS	\$ 25,000.00	\$ 25,000.00	\$ 14,433.99	\$ 14,433.99
49	832E30000	EROSION CONTROL	60000	EACH	\$ 1.00	\$ 60,000.00	\$ 0.01	\$ 600.00
					SECTION TOTAL	\$ 207,538.45	SECTION TOTAL	\$ 102,997.66

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
DRAINAGE					KARVO COMPANIES, INC.		CATTS CONSTRUCTION, INC.	
50	605E13300	6" UNCLASSIFIED PIPE UNDERDRAINS	200	FT	\$ 14.00	\$ 2,800.00	\$ 13.00	\$ 2,600.00
51	605E14020	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	8750	FT	\$ 17.00	\$ 148,750.00	\$ 13.00	\$ 113,750.00
52	611E00510	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	707	FT	\$ 15.00	\$ 10,605.00	\$ 20.00	\$ 14,140.00
53	611E00900	6" CONDUIT, TYPE B	89	FT	\$ 20.00	\$ 1,780.00	\$ 35.00	\$ 3,115.00
54	611E01800	8" CONDUIT, TYPE B	20	FT	\$ 40.00	\$ 800.00	\$ 45.00	\$ 900.00
55	611E03100	10" CONDUIT, TYPE B	10	FT	\$ 150.00	\$ 1,500.00	\$ 80.00	\$ 800.00
56	611E04400	12" CONDUIT, TYPE B	854	FT	\$ 180.00	\$ 153,720.00	\$ 222.00	\$ 189,588.00
57	611E05900	15" CONDUIT, TYPE B	379	FT	\$ 155.00	\$ 58,745.00	\$ 206.00	\$ 78,074.00
58	611E07400	18" CONDUIT, TYPE B	207	FT	\$ 165.00	\$ 34,155.00	\$ 219.00	\$ 45,333.00
59	611E08900	21" CONDUIT, TYPE B	163	FT	\$ 230.00	\$ 37,490.00	\$ 222.00	\$ 36,186.00
60	611E10400	24" CONDUIT, TYPE B	615	FT	\$ 235.00	\$ 144,525.00	\$ 206.00	\$ 126,690.00
61	611E11900	27" CONDUIT, TYPE B	30	FT	\$ 475.00	\$ 14,250.00	\$ 387.00	\$ 11,610.00
62	611E16400	36" CONDUIT, TYPE B	18	FT	\$ 800.00	\$ 14,400.00	\$ 422.00	\$ 7,596.00
63	611E97400	CONDUIT, MISC.: TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE	100	FT	\$ 10.00	\$ 1,000.00	\$ 42.00	\$ 4,200.00
64	611E97400	CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE	50	FT	\$ 25.00	\$ 1,250.00	\$ 30.00	\$ 1,500.00
65	611E97400	CONDUIT, MISC.: TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE	25	FT	\$ 35.00	\$ 875.00	\$ 45.00	\$ 1,125.00
66	611E97400	CONDUIT, MISC.: TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE	25	FT	\$ 45.00	\$ 1,125.00	\$ 45.00	\$ 1,125.00
67	611E98150	CATCH BASIN, NO. 3	7	EACH	\$ 4,000.00	\$ 28,000.00	\$ 7,015.00	\$ 49,105.00

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
68	611E98180	CATCH BASIN, NO. 3A	33	EACH	\$ 2,000.00	\$ 66,000.00	\$ 4,096.00	\$ 135,168.00
69	611E98390	CATCH BASIN, NO. 7	2	EACH	\$ 2,500.00	\$ 5,000.00	\$ 2,099.00	\$ 4,198.00
70	611E98470	CATCH BASIN, NO. 2-2B	11	EACH	\$ 2,500.00	\$ 27,500.00	\$ 2,099.00	\$ 23,089.00
71	611E98630	CATCH BASIN ADJUSTED TO GRADE	9	EACH	\$ 1,000.00	\$ 9,000.00	\$ 1,142.00	\$ 10,278.00
72	611E98634	CATCH BASIN RECONSTRUCTED TO GRADE	2	EACH	\$ 2,000.00	\$ 4,000.00	\$ 1,790.00	\$ 3,580.00
73	611E99574	MANHOLE, NO. 3	19	EACH	\$ 9,500.00	\$ 180,500.00	\$ 5,002.00	\$ 95,038.00
74	611E99654	MANHOLE ADJUSTED TO GRADE	11	EACH	\$ 1,000.00	\$ 11,000.00	\$ 1,307.00	\$ 14,377.00
75	611E99660	MANHOLE RECONSTRUCTED TO GRADE	1	EACH	\$ 2,200.00	\$ 2,200.00	\$ 1,500.00	\$ 1,500.00
76	611E99710	PRECAST REINFORCED CONCRETE OUTLET	4	EACH	\$ 750.00	\$ 3,000.00	\$ 171.00	\$ 684.00
77	611E99720	INSPECTION WELL	10	EACH	\$ 500.00	\$ 5,000.00	\$ 1,650.00	\$ 16,500.00
78	611E99820	MISCELLANEOUS METAL	15000	LB	\$ 3.00	\$ 45,000.00	\$ 2.25	\$ 33,750.00
79	611E99900	DRAINAGE STRUCTURE, MISC.: TEST HOLE	10	EACH	\$ 800.00	\$ 8,000.00	\$ 930.00	\$ 9,300.00
80	611E99900	DRAINAGE STRUCTURE, MISC.: 6' x 6' PRECAST MANHOLE STRUCTURE	1	EACH	\$ 35,000.00	\$ 35,000.00	\$ 10,484.00	\$ 10,484.00
81	690E98400	CITY CENTRE OF AVON POND RECONFIGURATION	1	LS	\$ 35,000.00	\$ 35,000.00	\$ 7,496.00	\$ 7,496.00
82	690E98400	CITY CENTRE OF AVON UNDERGROUND DETENTION RECONFIGURATION	1	LS	\$ 147,000.00	\$ 147,000.00	\$ 154,058.00	\$ 154,058.00
					SECTION TOTAL	\$ 1,238,970.00	SECTION TOTAL	\$ 1,206,937.00

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
PAVEMENT					KARVO COMPANIES, INC.		CATTS CONSTRUCTION, INC.	
83	251E01001	PARTIAL DEPTH PAVEMENT REPAIR (441), AS PER PLAN	1600	SY	\$ 45.00	\$ 72,000.00	\$ 25.00	\$ 40,000.00
84	253E01001	PAVEMENT REPAIR, AS PER PLAN	2350	SY	\$ 60.00	\$ 141,000.00	\$ 65.00	\$ 152,750.00
85	254E01000	PAVEMENT PLANING, ASPHALT CONCRETE	4500	SY	\$ 4.00	\$ 18,000.00	\$ 9.00	\$ 40,500.00
86	254E01001	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	31235	SY	\$ 3.50	\$ 109,322.50	\$ 9.00	\$ 281,115.00
87	254E01600	PATCHING PLANED SURFACE	1600	SY	\$ 0.25	\$ 400.00	\$ 1.20	\$ 1,920.00
88	255E10161	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, AS PER PLAN	1600	SY	\$ 145.00	\$ 232,000.00	\$ 85.00	\$ 136,000.00
89	301E56000	ASPHALT CONCRETE BASE, PG64-22, (449)	2445	CY	\$ 225.00	\$ 550,125.00	\$ 325.00	\$ 794,625.00
90	301E56000	ASPHALT CONCRETE BASE, PG64-22, (449), LEVELING COURSE	127	CY	\$ 250.00	\$ 31,750.00	\$ 440.00	\$ 55,880.00
91	301E56100	ASPHALT CONCRETE BASE, PG64-22, (449), (DRIVEWAYS)	25	CY	\$ 450.00	\$ 11,250.00	\$ 1,320.00	\$ 33,000.00
92	304E20001	AGGREGATE BASE, AS PER PLAN	3044	CY	\$ 85.00	\$ 258,740.00	\$ 75.00	\$ 228,300.00
93	407E20000	NON-TRACKING TACK COAT	6855	GAL	\$ 2.75	\$ 18,851.25	\$ 5.00	\$ 34,275.00
94	441E50100	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M	1584	CY	\$ 250.00	\$ 396,000.00	\$ 350.00	\$ 554,400.00
95	441E50300	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	2218	CY	\$ 185.00	\$ 410,330.00	\$ 270.00	\$ 598,860.00
96	441E50300	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), LEVELING COURSE	190	CY	\$ 225.00	\$ 42,750.00	\$ 378.00	\$ 71,820.00
97	441E70500	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	8	CY	\$ 450.00	\$ 3,600.00	\$ 1,079.00	\$ 8,632.00
98	452E10051	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN	249	SY	\$ 68.00	\$ 16,932.00	\$ 62.00	\$ 15,438.00
99	452E12051	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS, AS PER PLAN	1118	SY	\$ 78.00	\$ 87,204.00	\$ 78.00	\$ 87,204.00

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
100	609E12000	COMBINATION CURB AND GUTTER, TYPE 2	6841	FT	\$ 35.00	\$ 239,435.00	\$ 30.00	\$ 205,230.00
101	609E14000	CURB, TYPE 2-A	230	FT	\$ 15.00	\$ 3,450.00	\$ 5.00	\$ 1,150.00
102	609E20000	CURB, TYPE 3-A	200	FT	\$ 15.00	\$ 3,000.00	\$ 6.00	\$ 1,200.00
103	609E26000	CURB, TYPE 6	238	FT	\$ 30.00	\$ 7,140.00	\$ 75.00	\$ 17,850.00
104	609E26001	CURB, TYPE 6, AS PER PLAN	118	FT	\$ 360.00	\$ 42,480.00	\$ 460.00	\$ 54,280.00
105	609E28000	CURB, TYPE 7	90	FT	\$ 18.00	\$ 1,620.00	\$ 60.00	\$ 5,400.00
106	609E54000	6" CONCRETE TRAFFIC ISLAND	195	SY	\$ 65.00	\$ 12,675.00	\$ 89.00	\$ 17,355.00
107	690E98100	4' PAVEMENT JOINT REINFORCING MEMBRANE	8328	FT	\$ 16.10	\$ 134,080.80	\$ 19.00	\$ 158,232.00
					SECTION TOTAL	\$ 2,844,135.55	SECTION TOTAL	\$ 3,595,416.00

WATER WORK					KARVO COMPANIES, INC.		CATTS CONSTRUCTION, INC.	
108	638E00090	3" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, BOLTLESS-RESTRAINED JOINTS AND FITTINGS	5	FT	\$ 500.00	\$ 2,500.00	\$ 187.00	\$ 935.00
109	638E01300	8" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, MECHANICAL JOINTS AND FITTINGS	5	FT	\$ 400.00	\$ 2,000.00	\$ 203.00	\$ 1,015.00
110	638E01900	10" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, MECHANICAL JOINTS AND FITTINGS	5	FT	\$ 450.00	\$ 2,250.00	\$ 266.00	\$ 1,330.00
111	638E02500	12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, MECHANICAL JOINTS AND FITTINGS	1294	FT	\$ 185.00	\$ 239,390.00	\$ 300.00	\$ 388,200.00
112	638E07900	8" GATE VALVE AND VALVE BOX	1	EACH	\$ 3,250.00	\$ 3,250.00	\$ 4,168.00	\$ 4,168.00
113	638E08000	10" GATE VALVE AND VALVE BOX	1	EACH	\$ 4,500.00	\$ 4,500.00	\$ 5,674.00	\$ 5,674.00
114	638E08100	12" GATE VALVE AND VALVE BOX	4	EACH	\$ 5,000.00	\$ 20,000.00	\$ 6,770.00	\$ 27,080.00
115	638E10200	6" FIRE HYDRANT	13	EACH	\$ 12,000.00	\$ 156,000.00	\$ 12,500.00	\$ 162,500.00
116	638E10480	FIRE HYDRANT REMOVED	9	EACH	\$ 1,575.00	\$ 14,175.00	\$ 367.00	\$ 3,303.00

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
117	638E10800	VALVE BOX ADJUSTED TO GRADE	21	EACH	\$ 1,000.00	\$ 21,000.00	\$ 775.00	\$ 16,275.00
118	638E10900	SERVICE BOX ADJUSTED TO GRADE	11	EACH	\$ 75.00	\$ 825.00	\$ 345.00	\$ 3,795.00
119	638E98000	WATER WORK, MISC.: 12" WATERMAIN LOWERING (UNDERPASS) PER CITY OF AVON W-2	14	EACH	\$ 8,500.00	\$ 119,000.00	\$ 100.00	\$ 1,400.00
120	638E98000	WATER WORK, MISC.: VALVE 3" GATE VALVE AND VALVE BOX	1	EACH	\$ 1,000.00	\$ 1,000.00	\$ 1,900.00	\$ 1,900.00
121	638E98000	WATER WORK, MISC.: 1-1/2" COPPER SERVICE BRANCH	3	EACH	\$ 4,500.00	\$ 13,500.00	\$ 6,500.00	\$ 19,500.00
122	638E98000	WATER WORK, MISC.: 2" COPPER SERVICE BRANCH	2	EACH	\$ 4,800.00	\$ 9,600.00	\$ 6,000.00	\$ 12,000.00
123	638E98000	WATER WORK, MISC.: 3/4" COPPER SERVICE BRANCH	2	EACH	\$ 2,250.00	\$ 4,500.00	\$ 3,900.00	\$ 7,800.00
124	638E98100	WATER WORK, MISC.: CITY CENTRE OF AVON (SR 254) METER VAULT RECONSTRUCTION	1	LS	\$ 40,000.00	\$ 40,000.00	\$ 9,800.00	\$ 9,800.00
					SECTION TOTAL	\$ 653,490.00	SECTION TOTAL	\$ 666,675.00

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
SANITARY SEWER					KARVO COMPANIES, INC.		CATTS CONSTRUCTION, INC.	
125	611E99654	MANHOLE ADJUSTED TO GRADE	7	EACH	\$ 1,000.00	\$ 7,000.00	\$ 1,200.00	\$ 8,400.00
126	611E99900	DRAINAGE STRUCTURE, MISC.: TEST TEE ADJUST TO GRADE	20	EACH	\$ 275.00	\$ 5,500.00	\$ 50.00	\$ 1,000.00
127	611E99900	DRAINAGE STRUCTURE, MISC.: TEST TEE RECONSTRUCTED TO GRADE	5	EACH	\$ 750.00	\$ 3,750.00	\$ 50.00	\$ 250.00
128	611E99900	DRAINAGE STRUCTURE, MISC.: TEST TEE (DEPTH UP TO 12')	5	EACH	\$ 2,000.00	\$ 10,000.00	\$ 250.00	\$ 1,250.00
					SECTION TOTAL	\$ 26,250.00	SECTION TOTAL	\$ 10,900.00

LIGHTING					KARVO COMPANIES, INC.		CATTS CONSTRUCTION, INC.	
129	625E00450	CONNECTION, FUSED PULL APART	108	EACH	\$ 110.00	\$ 11,880.00	\$ 130.00	\$ 14,040.00
130	625E00460	CONNECTION, UNFUSED PULL APART	108	EACH	\$ 110.00	\$ 11,880.00	\$ 136.00	\$ 14,688.00
131	625E10481	LIGHT POLE, DECORATIVE, AS PER PLAN, (TYPE P1) (ALTERNATE 1)	5	EACH	\$ 9,900.00	\$ 49,500.00	\$ 11,572.00	\$ 57,860.00
132	625E10481	LIGHT POLE, DECORATIVE, AS PER PLAN, (TYPE P2) (ALTERNATE 1)	1	EACH	\$ 10,700.00	\$ 10,700.00	\$ 12,453.00	\$ 12,453.00
133	625E10481	LIGHT POLE, DECORATIVE, AS PER PLAN, (TYPE P1A) (ALTERNATE 1)	3	EACH	\$ 9,900.00	\$ 29,700.00	\$ 11,573.00	\$ 34,719.00
134	625E10481	LIGHT POLE, DECORATIVE, AS PER PLAN, (TYPE P2A) (ALTERNATE 1)	18	EACH	\$ 10,700.00	\$ 192,600.00	\$ 12,453.00	\$ 224,154.00
135	625E14500	LIGHT POLE FOUNDATION	27	EACH	\$ 1,900.00	\$ 51,300.00	\$ 1,339.00	\$ 36,153.00
136	625E23304	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE	4326	FT	\$ 2.80	\$ 12,112.80	\$ 2.25	\$ 9,733.50
137	625E23306	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	4326	FT	\$ 2.40	\$ 10,382.40	\$ 2.15	\$ 9,300.90
138	625E23410	NO. 12 AWG POLE AND BRACKET CABLE	6426	FT	\$ 1.75	\$ 11,245.50	\$ 2.00	\$ 12,852.00
139	625E25408	CONDUIT, 2", 725.051	3922	FT	\$ 13.00	\$ 50,986.00	\$ 10.00	\$ 39,220.00

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
140	625E27551	LUMINAIRE, DECORATIVE, AS PER PLAN, ROADWAY FIXTURE, (ALTERNATE 1)	27	EACH	\$ 2,200.00	\$ 59,400.00	\$ 3,686.00	\$ 99,522.00
141	625E27551	LUMINAIRE, DECORATIVE, AS PER PLAN, SIDEWALK FIXTURE, (ALTERNATE 1)	27	EACH	\$ 1,950.00	\$ 52,650.00	\$ 3,447.00	\$ 93,069.00
142	625E29000	TRENCH	3918	FT	\$ 12.00	\$ 47,016.00	\$ 13.50	\$ 52,893.00
143	625E30706	PULL BOX, 725.08, 24"	28	EACH	\$ 1,200.00	\$ 33,600.00	\$ 1,661.00	\$ 46,508.00
144	625E32000	GROUND ROD	27	EACH	\$ 283.33	\$ 7,649.91	\$ 328.00	\$ 8,856.00
145	625E34000	POWER SERVICE	2	EACH	\$ 1,500.00	\$ 3,000.00	\$ 10,775.00	\$ 21,550.00
146	625E36010	UNDERGROUND WARNING/MARKING TAPE	3918	FT	\$ 3.00	\$ 11,754.00	\$ 2.50	\$ 9,795.00
147	625E75400	LIGHT POLE REMOVED	5	EACH	\$ 400.00	\$ 2,000.00	\$ 417.00	\$ 2,085.00
148	625E75500	LIGHT POLE FOUNDATION REMOVED	5	EACH	\$ 200.00	\$ 1,000.00	\$ 250.00	\$ 1,250.00
149	625E98000	LIGHTING, MISC.: MILLBANK 16" COMMERCIAL PEDESTAL, (ALTERNATE 1)	3	EACH	\$ 13,100.00	\$ 39,300.00	\$ 11,760.00	\$ 35,280.00
					SECTION TOTAL	\$ 699,656.61	SECTION TOTAL	\$ 835,981.40

OTHER UTILITIES					KARVO COMPANIES, INC.		CATTS CONSTRUCTION, INC.	
150	625E25408	CONDUIT, 2", 725.051	4427	FT	\$ 13.00	\$ 57,551.00	\$ 10.00	\$ 44,270.00
151	625E29000	TRENCH	4427	FT	\$ 12.00	\$ 53,124.00	\$ 14.00	\$ 61,978.00
152	625E30720	PULL BOX, 725.08, 36"	15	EACH	\$ 4,450.00	\$ 66,750.00	\$ 1,940.00	\$ 29,100.00
153	625E36010	UNDERGROUND WARNING/MARKING TAPE	4427	FT	\$ 3.00	\$ 13,281.00	\$ 2.60	\$ 11,510.20
154	804E15010	FIBER OPTIC CABLE, 24 FIBER	5762	FT	\$ 6.00	\$ 34,572.00	\$ 5.50	\$ 31,691.00
155	804E35000	FUSION SPLICE	6	EACH	\$ 100.00	\$ 600.00	\$ 7,740.00	\$ 46,440.00
					SECTION TOTAL	\$ 225,878.00	SECTION TOTAL	\$ 224,989.20

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
TRAFFIC CONTROL					KARVO COMPANIES, INC.		CATTS CONSTRUCTION, INC.	
156	630E03100	GROUND MOUNTED SUPPORT, NO. 3 POST	1022.2	FT	\$ 15.00	\$ 15,333.00	\$ 15.50	\$ 15,844.10
157	630E04100	GROUND MOUNTED SUPPORT, NO. 4 POST	17.7	FT	\$ 20.00	\$ 354.00	\$ 18.00	\$ 318.60
158	630E07600	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	47.5	FT	\$ 68.40	\$ 3,249.00	\$ 77.00	\$ 3,657.50
159	630E08600	SIGN POST REFLECTOR	8	EACH	\$ 45.00	\$ 360.00	\$ 77.00	\$ 616.00
160	630E72550	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 13	2	EACH	\$ 26,800.00	\$ 53,600.00	\$ 35,010.00	\$ 70,020.00
161	630E72560	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 14	3	EACH	\$ 30,425.00	\$ 91,275.00	\$ 37,154.00	\$ 111,462.00
162	630E79101	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN	15	EACH	\$ 485.00	\$ 7,275.00	\$ 476.00	\$ 7,140.00
163	630E79500	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	15	EACH	\$ 190.00	\$ 2,850.00	\$ 89.00	\$ 1,335.00
164	630E80100	SIGN, FLAT SHEET	868.2	SF	\$ 20.00	\$ 17,364.00	\$ 18.00	\$ 15,627.60
165	630E84500	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	2	EACH	\$ 1,050.00	\$ 2,100.00	\$ 1,667.00	\$ 3,334.00
166	630E84510	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	6	EACH	\$ 7,175.00	\$ 43,050.00	\$ 9,764.00	\$ 58,584.00
167	630E84900	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	128	EACH	\$ 15.00	\$ 1,920.00	\$ 36.00	\$ 4,608.00
168	630E85100	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	4	EACH	\$ 65.00	\$ 260.00	\$ 113.00	\$ 452.00
169	630E86002	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	103	EACH	\$ 20.00	\$ 2,060.00	\$ 48.00	\$ 4,944.00
170	630E86102	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	1	EACH	\$ 360.00	\$ 360.00	\$ 1,429.00	\$ 1,429.00
171	630E87400	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	21	EACH	\$ 185.00	\$ 3,885.00	\$ 78.00	\$ 1,638.00
172	630E87500	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	13	EACH	\$ 35.00	\$ 455.00	\$ 30.00	\$ 390.00

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
173	630E89702	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL	6	EACH	\$ 2,650.00	\$ 15,900.00	\$ 1,429.00	\$ 8,574.00
174	631E90501	INTERNALLY ILLUMINATED FIXED MESSAGE SIGN, 95" X 24", 1 FACE, LED EDGE LIT TYPE, AS PER PLAN	13	EACH	\$ 4,100.00	\$ 53,300.00	\$ 3,598.00	\$ 46,774.00
175	631E90501	INTERNALLY ILLUMINATED FIXED MESSAGE SIGN, 118" X 24", 1 FACE, LED EDGE LIT TYPE, AS PER PLAN	2	EACH	\$ 4,750.00	\$ 9,500.00	\$ 4,045.00	\$ 8,090.00
176	644E00400	CHANNELIZING LINE, 8"	6878	FT	\$ 1.25	\$ 8,597.50	\$ 1.50	\$ 10,317.00
177	644E00500	STOP LINE	859	FT	\$ 4.50	\$ 3,865.50	\$ 10.00	\$ 8,590.00
178	644E00620	CROSSWALK LINE, 12"	2920	FT	\$ 4.00	\$ 11,680.00	\$ 5.50	\$ 16,060.00
179	644E00700	TRANSVERSE/DIAGONAL LINE	604	FT	\$ 4.25	\$ 2,567.00	\$ 9.50	\$ 5,738.00
180	644E00720	CHEVRON MARKING	135	FT	\$ 4.25	\$ 573.75	\$ 10.00	\$ 1,350.00
181	644E00900	ISLAND MARKING	220	SF	\$ 4.00	\$ 880.00	\$ 5.00	\$ 1,100.00
182	644E01300	LANE ARROW	108	EACH	\$ 135.00	\$ 14,580.00	\$ 149.00	\$ 16,092.00
183	644E01370	TWO WAY LEFT TURN ARROW	4	EACH	\$ 250.00	\$ 1,000.00	\$ 298.00	\$ 1,192.00
184	644E01350	LANE REDUCTION ARROW	6	EACH	\$ 390.00	\$ 2,340.00	\$ 398.00	\$ 2,388.00
185	644E01500	DOTTED LINE, 4"	2103	FT	\$ 1.20	\$ 2,523.60	\$ 3.50	\$ 7,360.50
186	646E10000	EDGE LINE, 4"	0.26	MILE	\$ 3,375.00	\$ 877.50	\$ 10,122.00	\$ 2,631.72

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
187	646E10100	LANE LINE, 4"	1.34	MILE	\$ 1,285.00	\$ 1,721.90	\$ 6,550.00	\$ 8,777.00
188	646E10200	CENTER LINE	1.59	MILE	\$ 6,150.00	\$ 9,778.50	\$ 7,740.00	\$ 12,306.60
					SECTION TOTAL	\$ 385,435.25	SECTION TOTAL	\$ 458,740.62

TRAFFIC SIGNALS					KARVO COMPANIES, INC.		CATTS CONSTRUCTION, INC.	
189	625E25409	CONDUIT, 2", 725.051, AS PER PLAN	1723	FT	\$ 15.00	\$ 25,845.00	\$ 10.00	\$ 17,230.00
190	625E25505	CONDUIT, 3", 725.051, AS PER PLAN	17	FT	\$ 17.50	\$ 297.50	\$ 13.25	\$ 225.25
191	625E25605	CONDUIT, 4", 725.051, AS PER PLAN	2024	FT	\$ 20.50	\$ 41,492.00	\$ 16.75	\$ 33,902.00
192	625E25907	CONDUIT, JACKED OR DRILLED, 725.051, 4", AS PER PLAN	253	FT	\$ 52.00	\$ 13,156.00	\$ 100.00	\$ 25,300.00
193	625E29001	TRENCH, AS PER PLAN	4013	FT	\$ 12.00	\$ 48,156.00	\$ 15.00	\$ 60,195.00
194	625E30701	PULL BOX, 725.08, 18", AS PER PLAN	38	EACH	\$ 1,000.00	\$ 38,000.00	\$ 1,300.00	\$ 49,400.00
195	625E30707	PULL BOX, 725.08, 24", AS PER PLAN	2	EACH	\$ 1,200.00	\$ 2,400.00	\$ 1,661.00	\$ 3,322.00
196	625E31511	PULL BOX REMOVAL, AS PER PLAN	11	EACH	\$ 400.00	\$ 4,400.00	\$ 315.00	\$ 3,465.00
197	625E31600	PULL BOX, MISC.: PULL BOX ADJUSTED TO GRADE	2	EACH	\$ 250.00	\$ 500.00	\$ 369.00	\$ 738.00
198	625E32000	GROUND ROD	6	EACH	\$ 275.00	\$ 1,650.00	\$ 328.00	\$ 1,968.00
199	625E32001	GROUND ROD, AS PER PLAN	41	EACH	\$ 275.00	\$ 11,275.00	\$ 340.00	\$ 13,940.00
200	625E36010	UNDERGROUND WARNING/MARKING TAPE	4013	FT	\$ 3.00	\$ 12,039.00	\$ 2.50	\$ 10,032.50
201	632E05007	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	39	EACH	\$ 1,350.00	\$ 52,650.00	\$ 985.00	\$ 38,415.00
202	632E05087	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	22	EACH	\$ 2,150.00	\$ 47,300.00	\$ 1,930.00	\$ 42,460.00
203	632E20731	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	36	EACH	\$ 875.00	\$ 31,500.00	\$ 672.00	\$ 24,192.00

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
204	632E25001	COVERING OF VEHICULAR SIGNAL HEAD, AS PER PLAN	61	EACH	\$ 50.00	\$ 3,050.00	\$ 48.00	\$ 2,928.00
205	632E25011	COVERING OF PEDESTRIAN SIGNAL HEAD, AS PER PLAN	36	EACH	\$ 40.00	\$ 1,440.00	\$ 48.00	\$ 1,728.00
206	632E26001	PEDESTRIAN PUSHBUTTON, AS PER PLAN	36	EACH	\$ 275.00	\$ 9,900.00	\$ 368.00	\$ 13,248.00
207	632E26500	DETECTOR LOOP	83	EACH	\$ 2,400.00	\$ 199,200.00	\$ 1,768.00	\$ 146,744.00
208	632E40200	SIGNAL CABLE, 2 CONDUCTOR, NO. 14 AWG	6090	FT	\$ 2.20	\$ 13,398.00	\$ 2.70	\$ 16,443.00
209	632E40500	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	6237	FT	\$ 2.60	\$ 16,216.20	\$ 3.50	\$ 21,829.50
210	632E40700	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	3701	FT	\$ 3.00	\$ 11,103.00	\$ 3.50	\$ 12,953.50
211	632E40900	SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG	2328	FT	\$ 3.40	\$ 7,915.20	\$ 4.50	\$ 10,476.00
212	632E64010	SIGNAL SUPPORT FOUNDATION	16	EACH	\$ 7,200.00	\$ 115,200.00	\$ 7,676.00	\$ 122,816.00
213	632E64020	PEDESTAL FOUNDATION	20	EACH	\$ 1,200.00	\$ 24,000.00	\$ 1,309.00	\$ 26,180.00
214	632E65300	LOOP DETECTOR LEAD-IN CABLE, 2 CONDUCTOR, NO. 14 AWG	16178	FT	\$ 1.75	\$ 28,311.50	\$ 2.40	\$ 38,827.20
215	632E67300	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG	230	FT	\$ 8.50	\$ 1,955.00	\$ 6.00	\$ 1,380.00
216	632E70001	POWER SERVICE, AS PER PLAN	5	EACH	\$ 13,000.00	\$ 65,000.00	\$ 4,346.00	\$ 21,730.00
217	632E70600	CONDUIT RISER, 3" DIAMETER	5	EACH	\$ 750.00	\$ 3,750.00	\$ 900.00	\$ 4,500.00
218	632E71369	SIGNAL SUPPORT, TYPE TC-12.31 DESIGN 10 POLE, WITH MAST ARMS TC-81.22 DESIGN 13 AND DESIGN 12, AS PER PLAN	1	EACH	\$ 37,500.00	\$ 37,500.00	\$ 37,548.00	\$ 37,548.00
219	632E72101	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 2, AS PER PLAN	1	EACH	\$ 10,750.00	\$ 10,750.00	\$ 11,105.00	\$ 11,105.00
220	632E72111	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4, AS PER PLAN	3	EACH	\$ 11,800.00	\$ 35,400.00	\$ 12,504.00	\$ 37,512.00
221	632E72131	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12, AS PER PLAN	4	EACH	\$ 15,700.00	\$ 62,800.00	\$ 16,448.00	\$ 65,792.00

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
222	632E72141	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN	5	EACH	\$ 20,800.00	\$ 104,000.00	\$ 20,531.00	\$ 102,655.00
223	632E72151	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN	2	EACH	\$ 20,900.00	\$ 41,800.00	\$ 21,837.00	\$ 43,674.00
224	632E77233	SIGNAL SUPPORT, MECHANICAL DAMPER FOR TC-81.22 MAST ARM (GREATER THAN 59' IN LENGTH), AS PER PLAN	2	EACH	\$ 1,300.00	\$ 2,600.00	\$ 1,292.00	\$ 2,584.00
225	632E89601	PEDESTAL, 8', AS PER PLAN	20	EACH	\$ 1,325.00	\$ 26,500.00	\$ 1,508.00	\$ 30,160.00
226	632E90100	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	6	EACH	\$ 4,500.00	\$ 27,000.00	\$ 2,804.00	\$ 16,824.00
227	632E90104	REUSE OF TRAFFIC CONTROL ITEM, BLANKOUT SIGN	1	EACH	\$ 1,000.00	\$ 1,000.00	\$ 1,667.00	\$ 1,667.00
228	632E90104	REUSE OF TRAFFIC CONTROL ITEM, MILBANK POWER AND WORK PAD	2	EACH	\$ 4,500.00	\$ 9,000.00	\$ 14,864.00	\$ 29,728.00
229	632E90212	REUSE OF CONTROLLER	1	EACH	\$ 1,500.00	\$ 1,500.00	\$ 2,488.00	\$ 2,488.00
230	632E90400	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	41	EACH	\$ 350.00	\$ 14,350.00	\$ 502.00	\$ 20,582.00
231	632E90400	SIGNALIZATION, MISC.: IT CAMERA CABINET	1	EACH	\$ 6,400.00	\$ 6,400.00	\$ 2,926.00	\$ 2,926.00
232	633E65510	CABINET, TYPE TS-2/A2, (ALTERNATE 1)	5	EACH	\$ 24,350.00	\$ 121,750.00	\$ 26,587.00	\$ 132,935.00
233	633E67101	CABINET FOUNDATION, AS PER PLAN	5	EACH	\$ 2,950.00	\$ 14,750.00	\$ 2,209.00	\$ 11,045.00
234	633E67201	CONTROLLER WORK PAD, AS PER PLAN	5	EACH	\$ 750.00	\$ 3,750.00	\$ 1,131.00	\$ 5,655.00
235	633E74001	UNINTERRUPTIBLE POWER SUPPLY (UPS), AS PER PLAN	5	EACH	\$ 9,400.00	\$ 47,000.00	\$ 9,812.00	\$ 49,060.00
236	809E69110	COMBINED RADAR DETECTION, (ALTERNATE 1)	12	EACH	\$ 14,200.00	\$ 170,400.00	\$ 27,881.00	\$ 334,572.00
237	809E69122	ATC CONTROLLER, (ALTERNATE 1)	5	EACH	\$ 5,750.00	\$ 28,750.00	\$ 6,653.00	\$ 33,265.00

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
238	809E69200	EMERGENCY VEHICLE PREEMPTION, (ALTERNATE 1)	10	EACH	\$ 4,550.00	\$ 45,500.00	\$ 9,526.00	\$ 95,260.00
239	809E69210	PREEMPT RECEIVING UNIT	19	EACH	\$ 800.00	\$ 15,200.00	\$ 1,522.00	\$ 28,918.00
240	809E69220	PREEMPT DETECTOR CABLE	4400	FT	\$ 4.50	\$ 19,800.00	\$ 3.00	\$ 13,200.00
241	809E69230	PREEMPT PHASE SELECTOR	5	EACH	\$ 5,450.00	\$ 27,250.00	\$ 5,731.00	\$ 28,655.00
242	809E69240	PREEMPT CONFIRMATION LIGHT, LED	19	EACH	\$ 800.00	\$ 15,200.00	\$ 753.00	\$ 14,307.00
					SECTION TOTAL	\$ 1,721,049.40		\$ 1,918,684.95

MAINTENANCE OF TRAFFIC					KARVO COMPANIES, INC.		CATTS CONSTRUCTION, INC.	
243	410E12000	TRAFFIC COMPACTED SURFACE, TYPE A OR B	75	CY	\$ 75.00	\$ 5,625.00	\$ 55.00	\$ 4,125.00
244	410E13000	TRAFFIC COMPACTED SURFACE, TYPE C	75	CY	\$ 85.00	\$ 6,375.00	\$ 55.00	\$ 4,125.00
245	614E11110	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	200	HOURL	\$ 100.00	\$ 20,000.00	\$ 100.00	\$ 20,000.00
246	614E11630	INCREASED BARRIER DELINEATION	1500	FT	\$ 2.89	\$ 4,335.00	\$ 4.15	\$ 6,225.00
247	614E12384	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	22	EACH	\$ 1,896.54	\$ 41,723.88	\$ 3,100.00	\$ 68,200.00
248	614E12801	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	336	EACH	\$ 45.91	\$ 15,425.76	\$ 29.00	\$ 9,744.00
249	614E13000	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	25	CY	\$ 400.00	\$ 10,000.00	\$ 505.00	\$ 12,625.00
250	614E13310	BARRIER REFLECTOR, TYPE 1, ONE-WAY	40	EACH	\$ 11.23	\$ 449.20	\$ 10.00	\$ 400.00
251	614E13310	BARRIER REFLECTOR, TYPE 1, BI-DIRECTIONAL	40	EACH	\$ 11.23	\$ 449.20	\$ 10.00	\$ 400.00
252	614E13350	OBJECT MARKER, ONE WAY	80	EACH	\$ 20.39	\$ 1,631.20	\$ 18.00	\$ 1,440.00
253	614E18000	MAINTAINING TRAFFIC, MISC.: MAINTENANCE OF TRAFFIC SIGNAL INSTALLATIONS	12	EACH	\$ 12,790.00	\$ 153,480.00	\$ 1,800.00	\$ 21,600.00
254	614E18601	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	60	SNMT	\$ 1,098.56	\$ 65,913.60	\$ 1,200.00	\$ 72,000.00

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
255	614E20100	WORK ZONE LANE LINE, CLASS I, 4", 642 PAINT	0.96	MILE	\$ 250.00	\$ 240.00	\$ 1,300.00	\$ 1,248.00
256	614E20200	WORK ZONE LANE LINE, CLASS I, 4", 740.06, TYPE I	0.35	MILE	\$ 2,958.83	\$ 1,035.59	\$ 4,167.00	\$ 1,458.45
257	614E21100	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	1.76	MILE	\$ 735.00	\$ 1,293.60	\$ 3,000.00	\$ 5,280.00
258	614E21200	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I	0.55	MILE	\$ 11,030.36	\$ 6,066.70	\$ 18,458.00	\$ 10,151.90
259	614E22100	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT	2.31	MILE	\$ 390.00	\$ 900.90	\$ 1,786.00	\$ 4,125.66
260	614E22200	WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE I	0.58	MILE	\$ 8,741.60	\$ 5,070.13	\$ 10,658.00	\$ 6,181.64
261	614E23200	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT	5934	FT	\$ 0.50	\$ 2,967.00	\$ 1.00	\$ 5,934.00
262	614E23400	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 740.06, TYPE I	382	FT	\$ 2.25	\$ 859.50	\$ 4.30	\$ 1,642.60
263	614E24200	WORK ZONE DOTTED LINE, CLASS I, 4", 642 PAINT	588	FT	\$ 0.45	\$ 264.60	\$ 3.50	\$ 2,058.00
264	614E25200	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT	521	FT	\$ 2.70	\$ 1,406.70	\$ 3.50	\$ 1,823.50
265	614E25400	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 740.06, TYPE I	139	FT	\$ 6.17	\$ 857.63	\$ 9.50	\$ 1,320.50
266	614E26200	WORK ZONE STOP LINE, CLASS I, 642 PAINT	820	FT	\$ 2.70	\$ 2,214.00	\$ 5.40	\$ 4,428.00
267	614E27050	WORK ZONE CROSSWALK LINE, CLASS I, 12", 642 PAINT	2933	FT	\$ 2.00	\$ 5,866.00	\$ 3.60	\$ 10,558.80
268	614E30200	WORK ZONE ARROW, CLASS I, 642 PAINT	92	EACH	\$ 50.00	\$ 4,600.00	\$ 101.00	\$ 9,292.00
269	614E40051	BUSINESS ENTRANCE SIGN, AS PER PLAN	5	EACH	\$ 500.00	\$ 2,500.00	\$ 595.00	\$ 2,975.00
270	615E10000	ROADS FOR MAINTAINING TRAFFIC	1	LS	\$ 27,235.75	\$ 27,235.75	\$ 100,000.00	\$ 100,000.00

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
271	615E20000	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	485	SY	\$ 100.00	\$ 48,500.00	\$ 72.00	\$ 34,920.00
272	616E10000	WATER	20	MGAL	\$ 5.00	\$ 100.00	\$ 1.00	\$ 20.00
273	622E41100	PORTABLE BARRIER, UNANCHORED	3031	FT	\$ 28.00	\$ 84,868.00	\$ 20.00	\$ 60,620.00
					SECTION TOTAL	\$ 522,253.94	SECTION TOTAL	\$ 484,922.05

INCIDENTALS					KARVO COMPANIES, INC.		CATTS CONSTRUCTION, INC.	
274	614E11000	MAINTAINING TRAFFIC	1	LS	\$ 500,000.00	\$ 500,000.00	\$ 350,000.00	\$ 350,000.00
275	619E16020	FIELD OFFICE, TYPE C	15	MNTH	\$ 3,500.00	\$ 52,500.00	\$ 2,500.00	\$ 37,500.00
276	623E10000	CONSTRUCTION LAYOUT STAKES AND SURVEYING	1	LS	\$ 250,000.00	\$ 250,000.00	\$ 125,000.00	\$ 125,000.00
277	624E10000	MOBILIZATION	1	LS	\$ 500,000.00	\$ 500,000.00	\$ 292,200.00	\$ 292,200.00
					SECTION TOTAL	\$ 1,302,500.00	SECTION TOTAL	\$ 804,700.00
GRAND TOTAL BASE BID					\$	11,225,000.00	\$	11,491,826.88

REF NO.	ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNIT	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID	TOTAL UNIT PRICE BID	TOTAL AMOUNT BID
---------	------	-------------	--------------------	------	----------------------	------------------	----------------------	------------------

ALTERNATE BID ITEMS

LIGHTING					KARVO COMPANIES, INC.		CATTS CONSTRUCTION, INC.	
131A	625E10481	LIGHT POLE, DECORATIVE, AS PER PLAN, (TYPE P1) (ALTERNATE 2)	5	EACH	\$ 10,000.00	\$ 50,000.00	\$ 11,670.00	\$ 58,350.00
132A	625E10481	LIGHT POLE, DECORATIVE, AS PER PLAN, (TYPE P2) (ALTERNATE 2)	1	EACH	\$ 10,800.00	\$ 10,800.00	\$ 12,433.00	\$ 12,433.00
133A	625E10481	LIGHT POLE, DECORATIVE, AS PER PLAN, (TYPE P1A) (ALTERNATE 2)	3	EACH	\$ 10,000.00	\$ 30,000.00	\$ 11,670.00	\$ 35,010.00
134A	625E10481	LIGHT POLE, DECORATIVE, AS PER PLAN, (TYPE P2A) (ALTERNATE 2)	18	EACH	\$ 10,800.00	\$ 194,400.00	\$ 12,433.00	\$ 223,794.00
140A	625E27551	LUMINAIRE, DECORATIVE, AS PER PLAN, ROADWAY FIXTURE, (ALTERNATE 2)	27	EACH	\$ 2,300.00	\$ 62,100.00	\$ 3,437.00	\$ 92,799.00
141A	625E27551	LUMINAIRE, DECORATIVE, AS PER PLAN, SIDEWALK FIXTURE, (ALTERNATE 2)	27	EACH	\$ 2,050.00	\$ 55,350.00	\$ 2,903.00	\$ 78,381.00
149A	625E98000	LIGHTING, MISC.: MILLBANK 16" COMMERCIAL PEDESTAL, (ALTERNATE 2)	3	EACH	\$ 15,550.00	\$ 46,650.00	\$ 11,725.00	\$ 35,175.00
					SECTION TOTAL	\$ 449,300.00	SECTION TOTAL	\$ 535,942.00

TRAFFIC SIGNALS					KARVO COMPANIES, INC.		CATTS CONSTRUCTION, INC.	
232A	633E65510	CABINET, TYPE TS-2/A2, (ALTERNATE 2)	5	EACH	\$ 24,000.00	\$ 120,000.00	\$ 26,509.00	\$ 132,545.00
236A	809E69110	COMBINED RADAR DETECTION, (ALTERNATE 2)	12	EACH	\$ 14,000.00	\$ 168,000.00	\$ 27,790.00	\$ 333,480.00
237A	809E69122	ATC CONTROLLER, (ALTERNATE 2)	5	EACH	\$ 5,500.00	\$ 27,500.00	\$ 6,633.00	\$ 33,165.00
238A	809E69200	EMERGENCY VEHICLE PREEMPTION, (ALTERNATE 2)	10	EACH	\$ 9,500.00	\$ 95,000.00	\$ 13,357.00	\$ 133,570.00
					SECTION TOTAL	\$ 410,500.00	SECTION TOTAL	\$ 632,760.00
GRAND TOTAL ALTERNATE BIDS					\$ 859,800.00		\$ 1,168,702.00	



M E M O

To: Ryan Cummins, P.E.

From: John Lewins

Date: May 19, 2025

Project Number: 19415

Regarding: LOR-254-05.66, SR 83 & SR 254 - Intersection Improvement
Bid Results and Recommendation

Please find enclosed a Bid Tabulation for the bids received on May 16, 2024, for the LOR-254-05.66, SR 83 & SR 254 - Intersection Improvement Project. A total of two (2) bids were submitted and opened at the City of Avon – City Hall. Bids for the Base Bid ranged from a low bid of \$11,225,000.00 to a high bid of \$11,491,628.88. Bid alternate totals are provided below.

The Engineers Estimate for the project was \$9,448,000.00. The low bid of \$11,225,000.00, as received from Karvo Companies, Inc. is approximately 19% above the Engineers Estimate for the project.

Summary of Bid Totals

Contractor	Base Bid Total	Alternate Bid Total
Karvo Companies Inc.	\$ 11,225,000.00	\$11,284,550.00
Catts Construction, Inc.	\$ 11,491,826.88	\$11,507,439.88

A reference check was performed for Karvo companies with the responses received to date summarized on the attached sheet. Both of the two references that we were able to speak with today gave very positive reviews of project work performed by Karvo Companies, Inc.

The bid as submitted by Karvo Companies, Inc. has been reviewed and found to be in conformance with the requirements of the Contract Documents. Therefore, it is our recommendation to the City of Avon - City Council that Karvo Companies, Inc. is the lowest and best bid for the LOR-254-05.66, SR 83 & SR 254 - Intersection Improvement Project.

Cc: Duane Streator, City of Avon, Service Director
Steve Presley, City of Avon, Finance Director
John Gasior, City of Avon, Law Director

PID 111283 - Reference Check- John Lewins - 5/19/25

Kavro Companies, Inc.

Lake County, Bryan Sparks, 440-655-4148

Details

- | | | |
|---|-----|--|
| 1. Was the project completed on time? | YES | |
| 2. If no, any penalties imposed? | NO | |
| 3. Were there any change orders? | 1 | Minor drainage issue. Resolved. |
| 4. Rate the overall quality of the work performed? (1-10) | 8 | |
| 5. Ease to work out constructability issues? | | Very easy to work with |
| 6. Would you hire this contractor again? | YES | Would not be timid in hiring them again. |

City of Elyria, Justin Deietz, 440-346-9756

Details

- | | | |
|---|-----|---|
| 1. Was the project completed on time? | YES | |
| 2. If no, any penalties imposed? | NO | |
| 3. Were there any change orders? | | |
| 4. Rate the overall quality of the work performed? (1-10) | 10 | |
| 5. Ease to work out constructability issues? | YES | |
| 6. Would you hire this contractor again? | YES | The city uses Karvo as an design resource and for project budgeting |

Cuyahoga Falls, Tony Demasi, 330-971-8180

Details

- | | |
|---|--|
| 1. Was the project completed on time? | |
| 2. If no, any penalties imposed? | |
| 3. Were there any change orders? | |
| 4. Rate the overall quality of the work performed? (1-10) | |
| 5. Ease to work out constructability issues? | |
| 6. Would you hire this contractor again? | |

LOR-254-5.66
SR 83 & SR 254 INTERSECTION PROJECT
IN THE CITY OF AVON,
COUNTY OF LORAIN,
STATE OF OHIO

BIDDER'S CHECKLIST

Karvo Companies, Inc.

For the convenience of the bidders, this checklist will assist the bidder in incorporating the required items into the bidding documents.

- | | | |
|------|---|--------------|
| (1) | Proposal Forms: P1 thru P-3- Completed and Signed | ✓ |
| (2) | <u>Bid Bond</u> or Check - Submitted with Bid | ✓ |
| (3) | Bidder's Qualification Statement: BQ-1 – Completed with Bid | ✓ |
| (4) | Non-Collusion Affidavit: NC-1 thru NC-3– Completed with Bid | ✓ |
| (5) | Personal Property Tax Statement: PPT-1 – Complete with Bid | ✓ |
| (6) | Certifications for Finding of Recovery: FR-1 – Complete with Bid | ✓ |
| (7) | Addendum's (if any) – Signed with Bid | ✓ |
| (8) | ODOT Pre-Qualification Documents - Submitted with Bid | ✓ |
| (9) | Work Types Work Sheet: WT-1 – Completed with Bid | ✓ |
| (10) | Substitution Sheet: SS-1 – Completed with Bid | Not Provided |
| (11) | List of Subcontractor's: LS-1 – Completed with Bid | ✓ |
| (12) | Drug-Free Safety Program (DFSP) Participation (see Special Provisions: ODOT's LPA Template-Required Contract Provisions, Provision No. 18) | ✓ |
| (13) | Federally Required EEO Certification Form, select/circle the appropriate response (see Special Provisions: ODOT's LPA Template – Required Contract Provisions, Provision No. 7) | ✓ |
| (14) | Certificate of Compliance with Affirmative Action Programs (see Special Provisions: ODOT's LPA Template – Required Contract Provisions, Provision No. 11) | ✓ |
| (15) | "Buy America Certification" form, signature of certification (see Special Provisions: ODOT's LPA Template – Required Contract Provisions, Provision No. 3 and "Buy America Certification" form following after ODOT's LPA Template) | ✓ |
| (15) | "Checklist for Bidders – Federal Funded Projects with a DBE Goal" | ✓ |