

Estimate HAM-Vine Street

Estimated Cost:\$900,627.30

Contingency: 13.30%

Estimated Total: \$1,020,410.73

PID 96425

Base Date: 06/28/24

Spec Year: 23

Unit System: E

Work Type: SIGNALIZATION ITEMS

Highway Type:

Urban/Rural Type: URBAN CLASS

Season: SUMMER

County: HAMILTON

Latitude of Midpoint: 391039

Longitude of Midpoint: 842947

District: 08

Federal/State Project Number: E131379 & E230012

Estimate Type: Preliminary Submittial

Prepared by Mead & Hunt on 04/26/23

Checked by SJS on 04/28/23

Approved by MLV on 04/28/23

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					

Group 0017: Roadway

0060	202E23000 PAVEMENT REMOVED	3,551.000	SY	\$11.59202	\$41,163.26
0061	202E30000 WALK REMOVED	2,422.000	SF	\$7.53917	\$18,259.87
0062	202E32000 CURB REMOVED	801.000	FT	\$14.93578	\$11,963.56
0063	202E58100 CATCH BASIN REMOVED	1.000	EACH	\$472.16060	\$472.16
0064	203E10000 EXCAVATION	615.000	CY	\$26.34855	\$16,204.36
0065	203E20000 EMBANKMENT	31.000	CY	\$52.00637	\$1,612.20
0066	204E10000 SUBGRADE COMPACTION	1,436.000	SY	\$2.99271	\$4,297.53
0067	608E13000 4" CONCRETE WALK	2,270.000	SF	\$11.06808	\$25,124.54
0068	608E52000 CURB RAMP	443.000	SF	\$32.50858	\$14,401.30

Total for Group 0017:\$133,498.78

Group 0020: Erosion Control

0069	659E00300 TOPSOIL	30.000	CY	\$78.43958	\$2,353.19
0070	659E10000 SEEDING AND MULCHING	239.000	SY	\$8.32588	\$1,989.89
0071	659E14000 REPAIR SEEDING AND MULCHING	13.000	SY	\$1.76543	\$22.95
0072	659E15000 INTER-SEEDING	13.000	SY	\$1.54042	\$20.03
0073	659E20000 COMMERCIAL FERTILIZER	0.035	TON	\$927.88162	\$32.48
0074	659E31000 LIME	0.051	ACRE	\$171.68355	\$8.76
0075	659E35000 WATER	2.000	MGAL	\$2.02461	\$4.05
0094	832E30000 EROSION CONTROL	7,000.000	EACH	\$1.00000	\$7,000.00

Total for Group 0020:\$11,431.35

Group 0040: Drainage

0085	605E05100 4" SHALLOW PIPE UNDERDRAINS	550.000	FT	\$14.98699	\$8,242.84
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0086	611E04400 15" CONDUIT, TYPE B	46.000	FT	\$132.13828	\$6,078.36
0087	611E05900 15" CONDUIT, TYPE C	7.000	FT	\$245.43625	\$1,718.05
0088	611E98180 CATCH BASIN, NO. 3A	1.000	EACH	\$3,284.16802	\$3,284.17
0091	611E98370 CATCH BASIN, NO. 6	1.000	EACH	\$3,137.40628	\$3,137.41
0128	611E98630 CATCH BASIN ADJUSTED TO GRADE	1.000	EACH	\$1,095.25257	\$1,095.25
0129	611E99654 MANHOLE ADJUSTED TO GRADE	1.000	EACH	\$1,044.31959	\$1,044.32

Total for Group 0040:\$24,600.40

Group 0050: Pavement

0076	254E01000 PAVEMENT PLANING, ASPHALT CONCRETE , 3"	5,314.000	SY	\$4.32708	\$22,994.10
0077	301E56000 ASPHALT CONCRETE BASE, PG64-22, (449)	295.000	CY	\$238.48786	\$70,353.92
0078	304E20000 AGGREGATE BASE	235.000	CY	\$74.15352	\$17,426.08
0079	407E20000 NON-TRACKING TACK COAT	906.000	GAL	\$4.03634	\$3,656.92
0080	441E70000 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	219.000	CY	\$245.39447	\$53,741.39
0081	441E70300 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	323.000	CY	\$249.72752	\$80,661.99
0082	452E12010 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	73.000	SY	\$103.80963	\$7,578.10
0083	609E26000 CURB, TYPE 6	508.000	FT	\$41.17077	\$20,914.75
0084	609E54000 4" CONCRETE TRAFFIC ISLAND	33.000	SY	\$153.16778	\$5,054.54

Total for Group 0050:\$282,381.79

Group 0060: Traffic Control

0103	644E00204 LANE LINE, 6"	0.300	MILE	\$2,118.01020	\$635.40
0104	644E00104 EDGE LINE, 6"	0.150	MILE	\$6,118.55407	\$917.78

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0105	644E00300	0.170	MILE	\$8,510.05211	\$1,446.71
CENTER LINE DOUBLE YELLOW					
0106	644E00404	288.000	FT	\$2.06598	\$595.00
CHANNELIZING LINE, 12"					
0107	644E00500	125.000	FT	\$8.92768	\$1,115.96
STOP LINE					
0108	644E00620	113.000	FT	\$5.41092	\$611.43
CROSSWALK LINE, 12"					
0109	644E00700	60.000	FT	\$7.64930	\$458.96
TRANSVERSE/DIAGONAL LINE					
0110	644E01300	8.000	EACH	\$129.65117	\$1,037.21
LANE ARROW					
0111	643E01510	594.000	FT	\$1.00000	\$594.00
DOTTED LINE, 6"					
0112	643E01510	121.000	FT	\$1.00000	\$121.00
DOTTED LINE, 6"					
0113	630E03100	52.000	FT	\$17.58066	\$914.19
GROUND MOUNTED SUPPORT, NO. 3 POST					
0114	630E79200	4.000	EACH	\$526.56546	\$2,106.26
SIGN ATTACHMENT ASSEMBLY, MAST ARM					
0115	630E79500	8.000	EACH	\$103.19655	\$825.57
SIGN SUPPORT ASSEMBLY, POLE MOUNTED					
0116	630E80100	78.100	SF	\$24.13791	\$1,885.17
SIGN, FLAT SHEET					
0117	630E80510	2.000	EACH	\$302.74899	\$605.50
SIGN, STREET NAME					
0118	630E87500	10.000	EACH	\$21.51668	\$215.17
REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL					
0119	630E87400	5.000	EACH	\$214.33819	\$1,071.69
REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL					

Total for Group 0060:\$15,157.00

Group 1200: Traffic Signals

0019	611E00400	100.000	FT	\$9.47100	\$947.10
4" CONDUIT, TYPE E					
0020	625E25408	317.000	FT	\$9.79026	\$3,103.51

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	CONDUIT, 2", 725.051				
0021	625E25906 CONDUIT, JACKED OR DRILLED, 725.051 , 4"	104.000	FT	\$10.00000	\$1,040.00
0022	625E29000 TRENCH	369.000	FT	\$10.61538	\$3,917.08
0023	625E30706 PULL BOX, 725.08, 24"	5.000	EACH	\$1,346.70873	\$6,733.54
0024	625E32000 GROUND ROD	5.000	EACH	\$362.89130	\$1,814.46
0025	625E36010 UNDERGROUND WARNING/MARKING TAPE	369.000	FT	\$1.49820	\$552.84
0026	625E76000 ARC FLASH CALCULATIONS AND LABEL , SIGNAL CONTROLLER	1.000	EACH	\$1,757.25736	\$1,757.26
0027	632E05006 VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, PO LYCARBONATE	8.000	EACH	\$995.50642	\$7,964.05
0028	632E05086 VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, PO LYCARBONATE	4.000	EACH	\$1,391.51621	\$5,566.06
0029	632E20731 PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN	2.000	EACH	\$600.00000	\$1,200.00
0030	632E20750 ACCESSIBLE PEDESTRIAN PUSHBUTTON	1.000	EACH	\$850.00000	\$850.00
0031	632E25000 COVERING OF VEHICULAR SIGNAL HEAD	2.000	EACH	\$42.00000	\$84.00
0032	632E28200 DISCONNECT SWITCH WITH ENCLOSURE	1.000	EACH	\$3,000.00000	\$3,000.00
0034	632E40500 SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	407.000	FT	\$3.20000	\$1,302.40
0035	632E40700 SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	740.000	FT	\$3.62561	\$2,682.95
0036	632E64010 SIGNAL SUPPORT FOUNDATION	4.000	EACH	\$5,960.00908	\$23,840.04
0037	632E64020 PEDESTAL FOUNDATION	1.000	EACH	\$1,298.29056	\$1,298.29
0038	632E69200 POWER CABLE, 2 CONDUCTOR, NO. 4 AWG	134.000	FT	\$5.56693	\$745.97
0039	632E69900 SERVICE CABLE, 3 CONDUCTOR, NO. 4 AWG	36.000	FT	\$9.39804	\$338.33
0040	632E70000 POWER SERVICE	1.000	EACH	\$2,167.48440	\$2,167.48
0043	632E72130 SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12	1.000	EACH	\$14,097.96045	\$14,097.96
0044	633E75001 UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	1.000	EACH	\$6,500.00000	\$6,500.00

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0045	632E90000 PEDESTAL, 10', TRANSFORMER BASE	1.000	EACH	\$3,500.00000	\$3,500.00
0046	632E90100 REMOVAL OF TRAFFIC SIGNAL INSTALLATION	1.000	EACH	\$2,928.05159	\$2,928.05
0056	633E67101 CABINET FOUNDATION	1.000	EACH	\$3,500.00000	\$3,500.00
0099	809E69101 STOP LINE RADAR DETECTION	3.000	EACH	\$9,000.00000	\$27,000.00
0100	809E69123 ATC CONTROLLER	1.000	EACH	\$6,500.00000	\$6,500.00
0101	819E10000 RAILROAD PREEMPTION INTERFACE	1.000	EACH	\$6,500.00000	\$6,500.00
0120	625E25604 CONDUIT, 4", 725.051	87.000	FT	\$18.62864	\$1,620.69
0121	625E30700 PULL BOX, 725.08, 18"	2.000	EACH	\$1,077.35181	\$2,154.70
0122	632E25010 COVERING OF PEDESTRIAN SIGNAL HEAD	2.000	EACH	\$35.93607	\$71.87
0123	632E65300 LOOP DETECTOR LEAD-IN CABLE, 2 CONDUCTOR, NO. 14 AWG	316.000	FT	\$2.03159	\$641.98
0124	632E72100 SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 2	2.000	EACH	\$9,643.00000	\$19,286.00
0125	632E72140 SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13	1.000	EACH	\$17,547.21929	\$17,547.22
0126	633E65521 CABINET, TYPE 332, AS PER PLAN	1.000	EACH	\$15,000.00000	\$15,000.00
0127	828E00100 LED BLANKOUT SIGN	1.000	EACH	\$5,049.03205	\$5,049.03

Total for Group 1200:\$202,802.86

Group 2100: Maintenance of Traffic

0047	614E11110 LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	48.000	HOUR	\$80.40514	\$3,859.45
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Total for Group 2100:\$3,859.45

Group 2300: Incidentals

0049	614E11000 MAINTAINING TRAFFIC	1.000	LS	\$40,000.00000	\$40,000.00
0050	619E16000	8.000	MNTH	\$1,111.95853	\$8,895.67

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FIELD OFFICE, TYPE A					
0051	623E10000	1.000	LS	\$8,000.00000	\$8,000.00
CONSTRUCTION LAYOUT STAKES AND SURVEYING					
0052	624E10000	1.000	LS	\$20,000.00000	\$20,000.00
MOBILIZATION					
0053	990E30000	1.000	LS	\$150,000.00000	\$150,000.00
AGREED LUMP SUM					
20% contingency					

Total for Group 2300:\$226,895.67