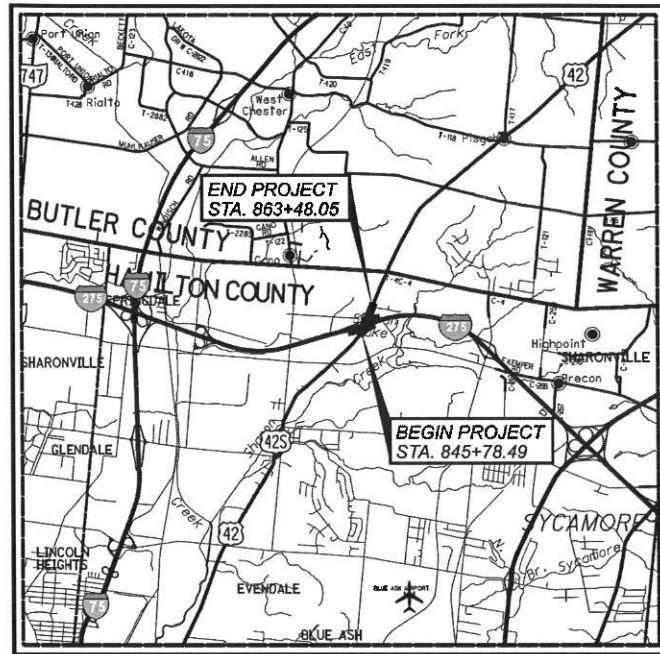


# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## HAM-275-28.29 PART 1

CITY OF SHARONVILLE  
HAMILTON COUNTY  
FOR PART 2, SEE HAM-HAUCK RD.



**LOCATION MAP**

LATITUDE: N 39°17'21" LONGITUDE: W 84°23'43"



PORTION TO BE IMPROVED	_____
INTERSTATE HIGHWAY	_____
FEDERAL ROUTES	_____
STATE ROUTES	_____
COUNTY & TOWNSHIP ROADS	_____
OTHER ROADS	_____

DESIGN DESIGNATION	US 42	RAMP A	RAMP B	RAMP C	RAMP D
CURRENT ADT (2022)	28,990	8,680	7,810	12,040	10,520
DESIGN YEAR ADT (2042)	29,300	8,740	7,910	12,360	10,700
DESIGN HOURLY VOLUME (2042)	2,440	1,110	760	1,060	990
DIRECTIONAL DISTRIBUTION	56%	NA	NA	NA	NA
TRUCKS (24 HOUR B&C)	5%	5%	8%	7%	5%
DESIGN SPEED (MPH)	40	35-60	35-60	35-60	35-60
LEGAL SPEED (MPH)	35	NA	NA	NA	NA
DESIGN FUNCTIONAL CLASSIFICATION:	03 PRINCIPAL ARTERIAL (URBAN)	01 INTERSTATES RAMP	01 INTERSTATES RAMP	01 INTERSTATES RAMP	01 INTERSTATES RAMP
NHS PROJECT	YES	YES	YES	YES	YES

**DESIGN EXCEPTIONS**

NONE REQUIRED

ADA DESIGN WAIVER:  
REQUIRED

**UNDERGROUND UTILITIES**

Contact Two Working Days Before You Dig

**OHIO811, 8-1-1, or 1-800-362-2764**  
(Non-members must be called directly)

SIGNED: *Jacob A. Stremmel*  
DATE: 1/22/2021

PLAN PREPARED BY:

**HDR** HDR ENGINEERING, INC.  
9999 CARVER ROAD, SUITE 210  
CINCINNATI, OHIO 45242  
513-984-7500

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STANDARD CONSTRUCTION DRAWINGS PARTS 1 & 2										SUPPLEMENTAL		SPECIAL PROVISIONS		
BP-2.1	7/17/15	DM-1.1	7/21/17	HW-1.1	7/20/18	MT-95.41	1/17/20	TC-41.30	10/18/13	TC-85.21	4/17/20	800-2019	1/15/21	WATERWAY PERMIT
BP-2.2	7/18/08	DM-1.2	1/18/13	HW-2.1	7/20/18	MT-95.60	4/19/19	TC-41.40	10/18/13	TC-85.22	1/19/18	804	7/17/20	CONDITIONS 1/3/20
BP-2.5	7/19/13	DM-1.3	7/18/14	HW-2.2	7/20/18	MT-95.61	4/19/19	TC-41.41	7/19/19			809	10/16/20	
BP-3.1	01/17/20	DM-4.2	7/20/12			MT-97.10	4/19/19	TC-42.20	10/18/13	ITS-10.10	7/19/19	821	4/20/12	
BP-8.1	7/18/08	DM-4.3	1/15/16	HL-10.31	4/17/20	MT-97.12	1/20/17	TC-51.11	1/15/16	ITS-11.10	7/19/19	832	10/19/18	
BP-4.1	7/19/13	DM-4.4	1/15/16	HL-20.11	4/17/20	MT-98.28	1/17/20	TC-52.10	10/18/13	ITS-12.10	7/19/19	870	4/19/19	
BP-5.1	1/18/19			HL-20.21	1/19/18	MT-98.30	7/19/19	TC-52.20	7/20/18	ITS-12.50	1/17/20	878	1/17/20	
BP-7.1	7/20/18	MGS-1.1	1/19/18	HL-30.11	4/17/20	MT-99.30	1/17/20	TC-61.30	7/19/19	ITS-14.10	7/17/15	895	4/18/14	
CB-1.1	7/19/19	MGS-2.1	1/19/18	HL-30.21	4/17/20	MT-101.60	1/17/20	TC-65.10	1/17/14	ITS-14.11	1/18/19	902	7/19/19	
CB-1.2	1/15/16	MGS-3.1	1/19/18	HL-30.22	4/17/20	MT-101.90	7/21/17	TC-65.11	7/21/17	ITS-15.10	7/19/19	904	7/17/20	
CB-2.1	7/20/18	MGS-3.2	1/18/13	HL-40.10	1/20/17	MT-102.10	1/17/20	TC-71.10	1/19/18	ITS-18.00	7/19/19	909	10/16/20	
CB-2.2	7/20/18	MGS-4.2	7/19/13	HL-40.20	1/17/20	MT-105.10	1/17/20	TC-73.20	1/17/20	ITS-50.10	7/19/19	921	4/20/12	
CB-2.3	1/15/16	MGS-4.3	1/18/13	HL-50.11	1/16/15	MT-110.10	7/19/13	TC-81.11	4/17/20			995	7/17/15	
CB-3.1	1/15/16	MGS-5.3	7/15/16	HL-60.21	7/20/18			TC-83.10	1/17/20					
CB-3.2	1/15/16	MGS-6.1	1/19/18			TC-17.11	4/17/20	TC-83.20	7/21/17					
CB-4.2	1/18/13			MT-95.30	7/19/19	TC-21.21	4/17/20	TC-84.20	10/18/13					
MH-1.1	1/15/16	RM-1.1	7/18/14	MT-95.31	7/19/19	TC-22.20	1/17/14	TC-84.21	10/18/13					
		RM-4.2	4/17/20	MT-95.32	4/19/19	TC-41.20	10/18/13	TC-85.10	4/17/20					

**FEDERAL PROJECT NUMBER**

E180-039

**RAILROAD INVOLVEMENT**

NONE

**PROJECT DESCRIPTION**

RAMP IMPROVEMENTS AT THE I-275 & US-42 INTERCHANGE;  
RE-ASSIGNING LANE USAGE ON US-42 THROUGH  
INTERCHANGE AND AT HAUCK RD, ADDITION OF A RIGHT THRU  
LANE ON SB US 42 AND SIDEWALK NORTH OF HAUCK RD

**EARTH DISTURBED AREAS PART 1**

PROJECT EARTH DISTURBED AREA:	4.98 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.13 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	5.02 ACRES

**EARTH DISTURBED AREAS PART 2**

PROJECT EARTH DISTURBED AREA:	5.60 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.00 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	5.60 ACRES

**LIMITED ACCESS**

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

**2019 SPECIFICATIONS**

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED: *Tammy K. Cepbell*  
DATE: 1-27-2021 DISTRICT DEPUTY DIRECTOR

APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_ DIRECTOR, DEPARTMENT OF TRANSPORTATION

TITLE SHEET

DESIGN AGENCY



DESIGNER

MJL

REVIEWER

JAS 06/08/20

PROJECT ID

106411

SHEET TOTAL

1 137

HAM-275-28.29

MODEL: Title Sheet PAPER SIZE: 17x11 (in.) DATE: 1/22/2021 TIME: 9:34:46 AM USER: MLORENZ

**ITEM SPECIAL MISC.: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION**

ALL CONCRETE SHALL BE TESTED. ALL TESTING, INSPECTION AND QUALITYCONTROL FOR CONCRETE, NOT INCLUDED UNDER QC/QA PAY ITEMS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CONCRETE TESTING CONSULTANT WITH PREVIOUS EXPERIENCE AND FAMILIARITY IN ODOT PROCEDURES, CONCRETE TESTING REQUIREMENTS AND CONCRETE TESTING DOCUMENTATION. AT LEAST 30 DAYS PRIOR TO CONCRETE PLACEMENT, SUBMIT TO THE ENGINEER FOR APPROVAL, THE PROPOSED CONCRETE TESTING CONSULTANT ALONG WITH THE RESUMES OF THE PROPOSED TESTING PERSONNEL.

TESTING CONCRETE FOR STRUCTURES AND PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE PERFORMED AS OUTLINED IN CMS SPECIFICATIONS 455 RESPECTIVELY.

THROUGH THE CONTRACTOR, THE CONSULTANT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONCRETE PLACED IS IN ACCORDANCE WITH THE SPECIFICATIONS. SUCH WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND THE ODOT CONSTRUCTION INSPECTION MANUAL OF PROCEDURES FOR CONCRETE. THE CONCRETE CONSULTANT SHALL PROVIDE THE NECESSARY TRAINED TECHNICIAN(S), ALL EQUIPMENT, AND SHALL FURNISH THE PROJECT ENGINEER WITH TWO (2) COPIES OF ALL TEST RESULTS WITHIN 24 HOURS AFTER COMPLETION OF CONCRETE PLACEMENT.

THE TECHNICIAN SHALL BE ACI LEVEL 1 CERTIFIED AND WILL BE REQUIRED TO DEMONSTRATE HIS/HER COMPETENCE AND EXPERIENCE LEVELS TO THE ENGINEER PRIOR TO BEGINNING WORK. THE ENGINEER WILL ORDER THE CONTRACTOR TO REPLACE ANY TECHNICIAN THAT IS NOT VERSED IN THE REQUIRED TESTING PROCEDURE.

THE TECHNICIAN SHALL VERBALLY NOTIFY THE ODOT PROJECT ENGINEER OF ANY FAILING TEST AND SHALL SUBMIT FOLLOW-UP WRITTEN NOTIFICATION TO THE PROJECT ENGINEER OF REMEDIAL ACTION(S) TAKEN. TESTS SHALL BE TAKEN AS SPECIFIED WITHIN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, CONCRETE MANUAL OR APPROPRIATE SUPPLEMENTAL SPECIFICATION AS LISTED IN THE PROPOSAL GOVERNING THE PROJECT. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAKE IMMEDIATE CORRECTIONS OR ADJUSTMENTS TO THE CONCRETE MIX VIA DIRECT COMMUNICATION WITH THE CONCRETE SUPPLIER'S PLANT PERSONNEL TO MAINTAIN UNINTERRUPTED COMPLIANCE WITH THE SPECIFICATIONS UPON NOTIFICATION OF CONCRETE MIX NON-COMPLIANCE BY THE CONSULTANT TECHNICIAN. THE PROJECT ENGINEER MAY REQUIRE MORE FREQUENT TESTING AS CONDITIONS WARRANT.

UPON COMPLETION OF DAILY CONCRETE PLACEMENT(S), THE CONCRETE CONSULTANT SHALL PROVIDE THE PROJECT ENGINEER WITH DAILY TEST REPORTS, TE-45'S, INSPECTORS DAILY REPORT AND SUPPORTING DOCUMENTATION FOR EACH ITEM OF CONCRETE WORK PERFORMED SEPARATED BY MIX DESIGN. SUBSEQUENTLY, UPON COMPLETION OF AN ENTIRE CONCRETE SPECIFICATION ITEM, THE CONCRETE CONSULTANT SHALL ALSO PROVIDE THE PROJECT ENGINEER WITH TWO (2) COPIES OF AN ADDITIONAL INSPECTION REPORT BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHICH CONTAINS THE TESTING-RESULTS SUMMARY FOR EACH ITEM BY CONTRACT REFERENCE NUMBER AND THE CONSULTANT'S CONCLUSIONS RELATIVE TO SPECIFICATION COMPLIANCE FOR ALL CONCRETE-TESTING WORK.

THE ODOT PROJECT ENGINEER RESERVES THE RIGHT TO MAKE UNANNOUNCED QUALITY-CONTROL TESTS TO VERIFY PROCEDURES USED AND RESULTS BEING OBTAINED BY THE CONTRACTOR.

THE CONCRETE TECHNICIAN SHALL WORK UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHO WILL MONITOR THE CONCRETE TEST RESULTS. THE FINAL INSPECTION REPORTS FOR EACH COMPLETED ITEM SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, CERTIFYING THAT ALL CONCRETE TESTS PROVIDED BY THE CONTRACTOR MET APPLICABLE CONTRACT REQUIREMENTS. A FINAL REPORT ISSUED BY THE CONSULTING FIRM SHALL CONTAIN A CERTIFIED STATEMENT OF COMPLIANCE WITH ODOT SPECIFICATIONS AND ANY OTHER CONCLUSIONS REGARDING THE CONCRETE MATERIALS INCORPORATED INTO THE PROJECT. SUCH STATEMENT SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO. AND, THE CONCRETE CONSULTANT SHALL BE REQUIRED TO ATTEND MONTHLY PROGRESS MEETINGS AS REQUIRED BY THE PROJECT ENGINEER.

ADDITIONALLY, THE CONTRACTOR SHALL BE REQUIRED TO KEEP A POSTED LIST OF BEAM AND CYLINDER IDENTIFICATION NUMBERS FOR THE PURPOSE OF IDENTIFYING THE CORRESPONDING PLACEMENT LOCATION AND CONCRETE SPECIFICATION ITEM.

PAYMENT SHALL BE BID AS LUMP SUM FOR ITEM SPECIAL MISC.: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION. THE ITEM WILL BE PAID FOR AS FOLLOWS:

UPON APPROVAL OF CONSULTANT . . . . . 20%

PROGRESSIVE EQUIVALENT PAYMENTS . . . . . 50%

UPON SUBMISSION OF FINAL REPORT . . . . . 30%.

THE TECHNICIAN SHALL HAVE THE FULL EFFECT AND AUTHORITY OF AN ODOT PROJECT INSPECTOR IN DETERMINING ACCEPTABILITY OF MATERIAL AND CONCRETE PLACEMENT PRACTICES.

GENERAL NOTES

DESIGN AGENCY



DESIGNER  
MJL

REVIEWER  
JAS 06/08/20


PROJECT ID  
106411

SHEET TOTAL  
10A | 137



SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
10	36	38	40	73						01/SAF/OT	02/SAF/OT						
										LS		201	11000	LS		ROADWAY	
	2,476									2,476		202	38000	2,476	FT	CLEARING AND GRUBBING	
	2									2		202	42001	2	EACH	GUARDRAIL REMOVED	
	8									8		202	42206	8	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN	10
	6,161									6,161		202	23000	6,161	SY	ANCHOR ASSEMBLY REMOVED	
	286									286		202	32000	286	FT	PAVEMENT REMOVED	
	177									177		202	35100	177	FT	CURB REMOVED	
	1									1		202	58100	1	EACH	PIPE REMOVED, 24" AND UNDER	
				7,505						7,505		203	10000	7,505	CY	CATCH BASIN REMOVED	
				2,433						2,433		203	20000	2,433	CY	EXCAVATION	
																EMBANKMENT	
	3,012.5									3,012.5		606	15050	3,012.5	FT	GUARDRAIL, TYPE MGS	
	662.5									662.5		606	15100	662.5	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
	2									2		606	35002	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
	2									2		606	35102	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
	10									10		606	26550	10	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
	4									4		606	26150	4	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
										LS	SPECIAL		69098400	LS		SPECIAL MISC.: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION	10A
										LS			25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
																EROSION CONTROL	
			18							18		601	21050	18	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
			6							6		601	21060	6	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT ON GEOTEXTILE FABRIC	
			1							1		601	34200	1	CY	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER	
			56							56		659	00300	56	CY	TOPSOIL	
	8,491									8,491		659	10000	8,491	SY	SEEDING AND MULCHING	
	425									425		659	14000	425	SY	REPAIR SEEDING AND MULCHING	
	425									425		659	15000	425	SY	INTER-SEEDING	
	1.18									1.18		659	20000	1.18	TON	COMMERCIAL FERTILIZER	
	1.75									1.75		659	31000	1.75	ACRE	LIME	
	47									47		659	35000	47	MGAL	WATER	
	19									19		659	40000	19	MSF	MOWING	
			190							190		670	00700	190	SY	DITCH EROSION PROTECTION	
										58,000		832	30000	58,000	EACH	EROSION CONTROL	
										LS		832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
										LS		832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
										LS		832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
																DRAINAGE	
			0.21							0.21		602	20000	0.21	CY	CONCRETE MASONRY	
			2,493							2,493		605	05100	2,493	FT	4" SHALLOW PIPE UNDERDRAINS	
			6,876							6,876		605	06000	6,876	FT	4" BASE PIPE UNDERDRAINS	
			1,292							1,292		605	05200	1,292	FT	4" UNCLASSIFIED PIPE UNDERDRAINS	
			732							732		611	04400	732	FT	12" CONDUIT, TYPE B	
			9							9		611	98180	9	EACH	CATCH BASIN, NO. 3A	
4										4		611	98630	4	EACH	CATCH BASIN ADJUSTED TO GRADE	
			2							2		611	99574	2	EACH	MANHOLE, NO. 3	
5										5		611	99654	5	EACH	MANHOLE ADJUSTED TO GRADE	
			9							9		611	99710	9	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																PAVEMENT	
			9,281							9,281		204	10000	9,281	SY	SUBGRADE COMPACTION	
			4							4		204	45000	4	HOUR	PROOF ROLLING	
			1,129							1,129		204	13000	1,129	CY	EXCAVATION OF SUBGRADE, 12" DEEP	
			3,387							3,387		204	50000	3,387	SY	GEOTEXTILE FABRIC	
			1,129							1,129		203	35120	1,129	CY	GRANULAR MATERIAL, TYPE C	
40										40		253	02000	40	CY	PAVEMENT REPAIR	
			15,690							15,690		254	01000	15,690	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3.25"	
24			1,008							1,032		301	46000	1,032	CY	ASPHALT CONCRETE BASE, PG64-22	
			1,842							1,842		304	20000	1,842	CY	AGGREGATE BASE	
			2,857							2,857		407	20000	2,857	GAL	NON-TRACKING TACK COAT	

GENERAL SUMMARY

DESIGN AGENCY	
	
DESIGNER	MJL
REVIEWER	JAS
PROJECT ID	106411
SHEET	31
TOTAL	137

H:\2017\170342\DWG\05181\Design\Roadway\Sheets\05181\_GG002.dgn Sheet 5/24/2021 1:38:55 PM rotella

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
8	8A	35	36	37	37A	38	98	99	118	CALC	03/MPO/OT	05/SAF/OT							
								<b>DRAINAGE</b>											
			0.6	0.4			36	18			54.6	0.4	602	20000	55	CY	CONCRETE MASONRY		
100											70	30	605	13300	100	FT	6" UNCLASSIFIED PIPE UNDERDRAINS		
						8,206					6,437	1,769	605	14000	8,206	FT	6" BASE PIPE UNDERDRAINS		
									40		40		611	00400	40	FT	4" CONDUIT, TYPE E, 707.45		
50											34	16	611	01500	50	FT	6" CONDUIT, TYPE F, 707.45		
						310					250	60	611	00510	310	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS		
			315	224							315	224	611	04400	539	FT	12" CONDUIT, TYPE B		
						234					234		611	04400	234	FT	12" CONDUIT, TYPE B, 748.01 OR 748.02		
			240	31							240	31	611	04600	271	FT	12" CONDUIT, TYPE C		
			2,237	313							2,237	313	611	07400	2,550	FT	18" CONDUIT, TYPE B		
			523	38							523	38	611	07600	561	FT	18" CONDUIT, TYPE C		
			40								40		611	10400	40	FT	24" CONDUIT, TYPE B		
			449								449		611	13400	449	FT	30" CONDUIT, TYPE B		
			19								19		611	13600	19	FT	30" CONDUIT, TYPE C		
								30			30		611	20700	30	FT	48" CONDUIT, TYPE A, 706.02		
							108				108		611	25000	108	FT	66" CONDUIT, TYPE A, 706.02 OR 72" 707.02 (0.249), 707.02 ALUMINIZED, 707.04, 707.07 (0.188), 707.35		
						115					115		611	96601	115	FT	CONDUIT, BORED OR JACKED, AS PER PLAN (12" TYPE B)	8A	
			3								3		611	98150	3	EACH	CATCH BASIN, NO. 3		
			19	5							19	5	611	98180	24	EACH	CATCH BASIN, NO. 3A		
			1								1		611	98260	1	EACH	CATCH BASIN, NO. 4 WITHOUT APRON		
			1								1		611	98370	1	EACH	CATCH BASIN, NO. 6		
			1	1							1	1	611	98470	2	EACH	CATCH BASIN, NO. 2-2B		
				1									611	98510	1	EACH	CATCH BASIN, NO. 2-3		
			5								5		611	98700	5	EACH	INLET, SIDE DITCH		
						2					2		611	99550	2	EACH	MANHOLE, NO. 1		
			19	4							19	4	611	99574	23	EACH	MANHOLE, NO. 3		
			1	1							1	1	611	99575	2	EACH	MANHOLE, NO. 3, AS PER PLAN	41,48	
			1								1		611	99586	1	EACH	MANHOLE, NO. 3 WITH 108" BASE I.D. AND 12" WEIR		
	12			2							12	2	611	99654	14	EACH	MANHOLE ADJUSTED TO GRADE		
	13										13		SPECIAL	61199700	13	EACH	GAS VALVE BOX ADJUSTED TO GRADE	8A	
											1		895	10040	1	EACH	MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4		
								<b>PAVEMENT</b>											
		545									545		253	02001	545	CY	PAVEMENT REPAIR, AS PER PLAN	8A	
											9,631	9,061	570	254	01000	9,631	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3"	
55							218				2,285	1,650	690	301	46000	2,340	CY	ASPHALT CONCRETE BASE, PG64-22	
							53				2,498	2,039	677	304	20000	2,716	CY	AGGREGATE BASE	
											1,914	1,716	251	407	20000	1,967	GAL	NON-TRACKING TACK COAT	
							38				691	600	129	441	50000	729	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
							43				1,134	977	200	441	50300	1,177	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
							62				62		452	11050	62	SY	7" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS		
							1,544				1,126	418	452	12050	1,544	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS		
			7,887								7,333	554	609	12000	7,887	FT	COMBINATION CURB AND GUTTER, TYPE 2		
													77	609	12001	77	FT	COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN	6
			77								390	185	609	26000	575	FT	CURB, TYPE 6		
	LS		575								LS	LS	SPECIAL	69098400	LS		MISC.: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION	8A	
								<b>WATER WORK</b>											
											5		203	98000	5	CY	ROADWAY, MISC.: ADDITIONAL EXCAVATION, CINCINNATI SPEC 1119	101-109	
											5		203	98000	5	CY	ROADWAY, MISC.: EXPLORATORY EXCAVATION, CINCINNATI SPEC 1120	101-109	
											5,963		509	40000	5,963	LB	REINFORCING STEEL, MISC.: REINFORCING STEEL, CINCINNATI SPEC 509	101-109	
											47		511	71100	47	CY	CONCRETE, MISC.: CONCRETE, CLASS "C", CINCINNATI SPEC 1110	101-109	
											1		602	10000	1	CY	BRICK MASONRY, CINCINNATI SPEC 602		
						115					115		638	07310	115	FT	24" STEEL PIPE ENCASEMENT, BORED OR JACKED		
											222		SPECIAL	63811602	222	FT	6" WATER MAIN DIP AND FITTINGS, CINCINNATI SPEC 1101	101-109	
											118		SPECIAL	63811604	118	FT	8" WATER MAIN DIP AND FITTINGS, CINCINNATI SPEC 1101	101-109	
											14		SPECIAL	63811606	14	FT	10" WATER MAIN DIP AND FITTINGS, CINCINNATI SPEC 1101	101-109	
											522		SPECIAL	63811608	522	FT	12" WATER MAIN DIP AND FITTINGS, CINCINNATI SPEC 1101	101-109	

**GENERAL SUMMARY**  
**HAM-HAUCK ROAD - WIDENING PART 2**

H:\2017\170342\DWG\05181\Design\Roadway\Sheets\05181\_GG003.dgn Sheet 5/24/2021 4:44 PM rotella

SHEET NUM.					PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
	110	111	112	120	CALC	03/MPO/OT							05/SAF/OT
<b>WATER WORK (CONT.)</b>													
						11		SPECIAL	63820454	11	FT	16" STEEL PIPE ENCASUREMENT, OPEN CUT, CINCINNATI SPEC 1108	101-109
						45		SPECIAL	63820466	45	FT	24" STEEL PIPE ENCASUREMENT, OPEN CUT, CINCINNATI SPEC 1108	101-109
						14		SPECIAL	63820498	14	EACH	VALVE BOX, COMPLETE, CINCINNATI SPEC 1116	101-109
						4		SPECIAL	63820500	4	EACH	VALVE BOX ADJUSTED TO GRADE, CINCINNATI SPEC 604	101-109
						5		SPECIAL	63820742	5	EACH	1" AIR RELEASE VALVE WITH VALVE BOX, COMPLETE, , CINCINNATI SPEC 1116	101-109
						8		SPECIAL	63820750	8	EACH	6" FIRE HYDRANT, CINCINNATI SPEC 1112	101-109
						8		SPECIAL	63820760	8	EACH	FIRE HYDRANT REMOVED AND DISPOSED OF, CINCINNATI SPEC 1114	101-109
						2		SPECIAL	63820762	2	EACH	FIRE HYDRANT SERVICE LINE EXTENDED AND ADJUSTED TO GRADE, 8" LONG, CINCINNATI SPEC 1115	101-109
						3		SPECIAL	63820762	3	EACH	FIRE HYDRANT SERVICE LINE EXTENDED AND ADJUSTED TO GRADE, 12" LONG, CINCINNATI SPEC 1115	101-109
						3		SPECIAL	63820762	3	EACH	FIRE HYDRANT SERVICE LINE EXTENDED AND ADJUSTED TO GRADE, 18" LONG, CINCINNATI SPEC 1115	101-109
						181		SPECIAL	63820766	181	FT	3/4" COPPER WATER SERVICE LINE, WITH AQUA SHIELD, CINCINNATI SPEC 1126	101-109
						131		SPECIAL	63820770	131	FT	1" COPPER WATER SERVICE LINE, WITH AQUA SHIELD, CINCINNATI SPEC 1126	101-109
						73		SPECIAL	63820778	73	FT	2" COPPER WATER SERVICE LINE, WITH AQUA SHIELD, CINCINNATI SPEC 1126	101-109
						1		SPECIAL	63820786	1	FT	RETAP AND RECONNECT WATER SERVICE CONNECTION, CINCINNATI SPEC 1128	101-109
						1		SPECIAL	63830002	1	MBF	SHEETING AND BRACING ORDERED LEFT IN PLACE, CINCINNATI SPEC 637	101-109
						2		638	98000	2	EACH	WATER WORK, MISC.:REMOVING EXISTING MANHOLE CURB AND COVER, CINCINNATI SPEC 1122	101-109
						10		638	98000	10	EACH	WATER WORK, MISC.:REMOVING EXISTING VALVE BOX, CINCINNATI SPEC 1122	101-109
						3		638	98000	3	EACH	WATER WORK, MISC.:REMOVING EXISTING VALVE BOXES COMPLETE, CINCINNATI SPEC 1125	101-109
						12		638	98000	12	EACH	WATER WORK, MISC.:FURNISHING AND INSTALLING CURB AND ROADWAY BOX (RENEW), CINCINNATI SPEC 1131	101-109
						4		638	98000	4	EACH	WATER WORK, MISC.:FURNISHING AND INSTALLING CURB AND ROADWAY BOX (RECONNECT), CINCINNATI SPEC 1131	101-109
						5		638	98000	5	EACH	WATER WORK, MISC.:RELOCATING EXISTING 5/8" FROST-PROOF METER SETTING, CINCINNATI SPEC 1134	101-109
						1		638	98000	1	EACH	WATER WORK, MISC.:RELOCATING EXISTING 3/4" FROST-PROOF METER SETTING, CINCINNATI SPEC 1134	101-109
						2		638	98000	2	EACH	WATER WORK, MISC.:RELOCATING EXISTING 1" FROST-PROOF METER SETTING, CINCINNATI SPEC 1134	101-109
						2		638	98000	2	EACH	WATER WORK, MISC.:RELOCATING EXISTING 2" FROST-PROOF METER SETTING, CINCINNATI SPEC 1134	101-109
						1		638	98000	1	EACH	WATER WORK, MISC.:FURNISHING & INSTALLING 8" METER SETTING APPURT. & CONSTRUCT PIT, CINC. SPEC 1137	101-109
<b>TRAFFIC CONTROL</b>													
					7	5	2	626	00110	7	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL	
	227	80				227	80	630	03100	307	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
	26					26		630	08520	26	FT	STREET NAME SIGN SUPPORT, NO. 3 POST	
				1		1		630	79100	1	EACH	SIGN HANGER ASSEMBLY, MAST ARM	
	2					2		630	79500	2	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
	105.4	40.4		7.5		112.9	40.4	630	80100	153.3	SF	SIGN, FLAT SHEET	
	5	7				5	7	630	84900	12	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
	8					8		630	85100	8	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
	8	6				8	6	630	86002	14	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
	3					3		630	87500	3	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
						0.07		644	00100	0.07	MILE	EDGE LINE, 4"	
						0.03	0.03	644	00200	0.03	MILE	LANE LINE, 4"	
						1.44	0.12	644	00300	1.44	MILE	CENTER LINE	
						739	415	644	00400	739	FT	CHANNELIZING LINE, 8"	
						148	77	644	00500	148	FT	STOP LINE	
						682	437	644	00600	682	FT	CROSSWALK LINE	
						86	86	644	00700	86	FT	TRANSVERSE/DIAGONAL LINE	
						3	3	644	01000	3	EACH	RAILROAD SYMBOL MARKING	
						32	7	644	01300	32	EACH	LANE ARROW	
						3	2	644	01400	3	EACH	WORD ON PAVEMENT, 72"	
						274	121	644	01500	274	FT	DOTTED LINE, 4"	
<b>TRAFFIC SIGNALS</b>													
				21		21		625	25408	21	FT	CONDUIT, 2", 725.051	
				12		12		625	25604	12	FT	CONDUIT, 4", 725.051	
				80		80		625	25606	80	FT	CONDUIT, 4", 725.052	
				33		33		625	29002	33	FT	TRENCH, 24" DEEP	
				80		80		625	29400	80	FT	TRENCH IN PAVED AREA	
						2		625	30700	2	EACH	PULL BOX, 725.08, 18"	
						1		625	32000	1	EACH	GROUND ROD	
						2		631	97700	2	EACH	SIGN LIGHTING MISC.: REMOVAL AND REPLACEMENT OF LED BLANKOUT SIGN	118
						4		632	20721	4	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, AS PER PLAN	118
						2		632	26001	2	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	118

**GENERAL SUMMARY**

**HAM-HAUCK ROAD - WIDENING PART 2**