UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

WATER/SEWER

CITY OF TROTWOOD
2400 OLIVE ROAD
TROTWOOD, OHIO 45426
TEL. (937)837-1702
JMCCLUSKEY@TROTWOOD.ORG
JOHNNY MCCLUSKEY

MONTGOMERY COUNTY ENVIRONMENTAL SERVICES
1850 SPAULDING ROAD
KETTERING, OHIO 45432

TEL. (937)781-2634
HINCHJ@MCOHIO.ORG
JENNIFER HINCH

STEWARTK@MCOHIO.ORG
KEN STEWART

CABLE

CHARTER COMMUNICATIONS
3691 TURNER ROAD
DAYTON, OHIO 45415
TEL. (937)396-8591
EIN.WHATLEY@CHARTER.COM
EIN WHATLEY

ELECTRIC

AES OHIO
1900 DRYDEN ROAD
DAYTON, OHIO 45439
TEL. (937)554-9063
WILLIAM.WARD@AES.COM
BILL WARD

TELECOMMUNICATIONS

FRONTIER COMMUNICATIONS
10 MULBERRY STREET
BROOKVILLE, OHIO 45309
ROBIN.LATHAM@FTR.COM
ROBIN LATHAM

GAS

CENTERPOINT ENERGY/GRIDHAWK
6500 CLYO ROAD
CENTERVILLE, OHIO 45459
TEL. (937)291-7116
PUBLICPROJECT@CENTERPOINTENERGY.COM
KELLY.SPURLOCK@CENTERPOINTENERGY.COM
KELLY SPURLOCK

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE OF THESE WORK LIMITS.

ITEM 201, CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	2	0	2
30"	4	0	4
48"	5	0	5
60"	0	0	0

PROTECTION OF BATS - CUTTING RESTRICTIONS

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG- EARED BAT. THE CONTRACTOR SHALL NOT REMOVE TREES UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THE CONTRACTOR SHALL DEMARCATE CLEARING LIMITS IN THE FIELD TO AVOID ANY UNAUTHORIZED TREE CLEARING. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, TOPSOIL – 360 CU YD
659, SEEDING AND MULCHING – 3,235 SQ YD
659, COMMERICAL FERTILIZER – 0.45 TON
659, WATER – 18 MGAL
670, SLOPE EROSION PROTECTION – 2,680 EACH
832, EROSION CONTROL – 30,000 EACH

1

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY TEMPORARY EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

CONCRETE DRIVEWAY

THIS ITEM SHALL BE PLACED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. ASSESSMENT OF EXISTING CONDITION SHALL TAKE PLACE IN ALL AREAS WHERE DRIVE CONDUITS AND HEADWALLS EXIST. ADDITIONAL ESTIMATED CONTINGENCY QUANTITIES HAVE BEEN PROVIDED FOR THE FOLLOWING ITEMS:

ITEM 611, 12" CONDUIT, TYPE B - 85 LF
ITEM 611, 18" CONDUIT, TYPE B - 110 LF
ITEM 602, CONCRETE MASONRY – 3.06 CU.YD

ITEM 638, FIRE HYDRANT REMOVED AND RESET, AS PER PLAN

THIS ITEM HAS BEEN PLACED AS A CONTINGENCY QUANTITY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY IF EXISTING HYDRANT IS IN CONFLICT WITH PROPOSED WALK. MONTGOMERY COUNTY ENVIRONMENTAL SERVICES STANDARDS AND SPECIFICATIONS HAVE BEEN PROVIDED IN THE CASE FIRE HYDRANT RELOCATION IS NECESSARY.

THIS ITEM SHALL BE PLACED IN ACCORDANCE WITH MONTGOMERY COUNTY ENVIRONMENTAL SERVICES (MCES) 2019 REQUIREMENTS, SPECIFICATIONS AND STANDARDS, JANUARY 2019 REVISION.

INSPECTION

A. ALL HYDRANTS AND VALVES WILL BE INSPECTED BY THE ENGINEER OR ENGINEER'S REPRESENTATIVE PRIOR TO REINSTALLATION.

B. DAMAGED OR DEFECTIVE MATERIALS RESULTING FROM THE CONTRACTOR WILL BE REJECTED WHETHER PREVIOUSLY INCORPORATEDINTO THE WORK OR NOT, AND ALL EXPENSES OF REPAIRING OR REMOVING AND REPLACING SUCH DEFECTIVE MATERIALS SHALL BE PAID BY THE CONTRACTOR.

INSTALLATION

A. INSTALL ALL HYDRANTS, VALVES AND APPURTENANCES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

B. UNLESS OTHERWISE APPROVED INSTALL ALL VALVES PLUMB AND LEVEL AND IN A CLOSED POSITION. VALVES SHALL BE INSTALLED FREE FROM DISTORTION AND STRAIN CAUSED BY MISALIGNED PIPING, EQUIPMENT OR OTHER CAUSES.

C. VALVE BOXES SHALL BE SET PLUMB, AND CENTERED WITH THE BODIES DIRECTLY OVER THE OPERATING NUTS. THE VALVE BOX SHALL BE SET SO TRAFFIC LOADS ARE NOT TRANSMITTED TO THE VALVE. ANY VALVE BOX SET TOO HIGH OR TOO LOW SHALL BE ADJUSTED AT THE CONTRACTOR'S EXPENSE.

D. FIRE HYDRANTS:

1. HYDRANTS SHALL BE SET ON A SOLID CONCRETE BLOCK UNIT 1'-6" X 8" X 1'-4" AND BACKFILLED WITH NO. 57 GRAVEL.

2. THE HYDRANT SHALL BE SET WITH THE CENTER OF THE LOWEST NOZZLE AT LEAST 15-INCHES, BUT NOT MORE THAN 18-INCHES ABOVE THE FINISHED GRADE AND/OR AS APPROVED BY THE ENGINEER. THE STORZ NOZZLE SHALL BE ORIENTED NORMAL TO THE EDGE OF PAVEMENT.

3. THE HYDRANT SHALL BE HARNESSED TO THE GATE VALVE AND THE GATE VALVE SHALL BE HARNESSED TO THE MAIN LINE BY USING SUITABLE TIE ANCHOR PIPE AND FITTINGS TO SUIT THE INSTALLATION SHOWN ON THE DRAWINGS AND STANDARD DETAILS IN SECTION 15051. THE GATE VALVES REQUIRED FOR HYDRANTS SHALL BE IN ACCORDANCE WITH PARAGRAPH 2.1.C.

FIELD TESTS AND ADJUSTMENTS

A. ADJUST ALL PARTS AND COMPONENTS AS REQUIRED TO PROVIDE CORRECT OPERATION.

B. CONDUCT FUNCTIONAL FIELD TEST OF EACH VALVE IN PRESENCE OF ENGINEER TO DEMONSTRATE THAT EACH PART AND ALL COMPONENTS TOGETHER FUNCTION CORRECTLY. ALL TESTING EQUIPMENT REQUIRED SHALL BE PROVIDED.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, OPERATION OF POWER-OPERATED CONSTRUCTION-TYPE DEVICES.

VEGETATED FILTER STRIP

THIS PLAN UTILIZES VEGETATED FILTER STRIP(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AND ITEM 670, SLOPE EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS, THE EDGE OF SHOULDER, AND THE FORESLOPE AS SPECIFIED IN THE PLANS.

THE FOLLOWING QUANTITES ARE PROVIDED AND HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

	BEGIN STATION	END STATION	ITEM 659, TOPSOIL VOLUME (CY)	ITEM 670, SLOPE EROSION PROTECTION (SY)
VFS 1	52+61	54+92	14	128
VFS 2	55+54	58+38	18	158
VFS 3	58+38	59+56	28	249
VFS 4	00+12	02+36	41	370
VFS 5	07+69	08+28	15	135

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL
POSITIONING METHOD: ODOT CORS
MONUMENT TYPE: B

VERTICAL POSITIONING
ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: 18

HORIZONTAL POSITIONING
REFERENCE FRAME: NAD83
ELLIPSOID: GRS80
MAP PROJECTION: TRANSVERSE MERCATOR
COORDINATE SYSTEM: OCCS, MONTGOMERY COUNTY
COMBINED SCALE FACTOR: 1.000038

ORIGIN OF COORDINATE
SYSTEM: (164,041.67 , 0)

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

SPECIAL BENCHING 804

BENCHING OF FOUNDATION SLOPES ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

CENTERPOINT ENERGY

HIGH PRESSURE GAS MAINS ARE NOTED THROUGHOUT THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING AND LOCATING THE EXACT DEPTH OF THE EXISTING GAS MAINS PRIOR TO THE START OF ANY CONSTRUCTION IF EXISTING GAS MAINS ARE LOCATED WITHIN 3' HORIZONTALLY OF PROPOSED WORK AND/OR EXCAVATING MORE THAN 1' BELOW EXISTING GRADE. PRICE OF THIS ITEM SHALL BE INCLUDED IN LINE ITEM 608, 4" CONCRETE WALK, AS PER PLAN.

MONTGOMERY COUNTY ENVIRONMENTAL SERVICES

MONGOMERY COUNTY ENVIRONMENTAL SERVICES (MCES) WATER AND SANITARY FACILITIES ARE WITHIN PROJECT LIMITS. WATER MAINS AND SERVICES ARE NOTED THROUGHOUT THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH MCES ON THE POSSIBLE RELOCATION OF CURB BOXES/METER PITS, IF IN CONFLICT WITH THE PROPOSED WALK. PRICE OF THIS ITEM SHALL BE INCLUDED IN LINE ITEM 608, 4" CONCRETE WALK, AS PER PLAN.

GENERAL NOTES

DESIGN AGENCY
CMT
CRAWFORD, MURPHY & TILLY, INC.
7777 WASHINGTON VILLAGE DR
SUITE 270
DAYTON, OHIO 45459
PH (937)701-2163
www.cmtengr.com

DESIGNER
BMR

REVIEWER
JWB 07/01/25

PROJECT ID
117202

SHEET P.5 TOTAL 59

MOT TROTWOOD OLIVE RD WALKS SA22

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 1/14/2026 TIME: 3:33:43 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOT
L:\TrotwoodOH.18062101-00_GenEngSvs\80_MOT-OliveSR49SafetyProject\117202\400-Engineering\Roadway\Sheets\117202_GN101.dgn
WORKSET: 117202_80_MOT-OliveSR49SafetyProject PRODUCT: OpenRoadsDesigner 10.12.03.2

MOT TROTWOOD OLIVE RD WALKS SA22

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 1/14/2026 TIME: 3:33:46 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_Pen.tbl USER: WORKSPACE: OHDOT WORKSET: 117202_80_MOT-OliveSR49SafetyProject PRODUCT: OpenRoadsDesigner 10.12.03.2
L:\TrotwoodOH\18062101-00_GenEngSvs\80_MOT-OliveSR49SafetyProject\117202\400-Engineering\Roadway\Sheets\117202_GG101.dgn

GENERAL SUMMARY

SHEET NUM.													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
5	6	9		10		11		12		42		44	01/SAF		EXT	TOTAL			
																		ROADWAY	
LS													LS	201	11000	LS		CLEARING AND GRUBBING	5
		330											330	202	38000	330	FT	GUARDRAIL REMOVED	
		925											925	202	30000	925	SF	WALK REMOVED	
		70											70	202	75000	70	FT	FENCE REMOVED	
				613									613	202	23000	613	SY	PAVEMENT REMOVED	
				210									210	202	32000	210	FT	CURB REMOVED	
										431			431	203	10000	431	CY	EXCAVATION	42
										335		10	345	203	20000	345	CY	EMBANKMENT	42
				417									417	204	10000	417	SY	SUBGRADE COMPACTION	
		682.5											682.5	606	15100	682.5	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
		3											3	606	26550	3	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
		1,195											1,195	608	52000	1,195	SF	CURB RAMP	
		80											80	608	53020	80	SF	DETECTABLE WARNING	
		7,940											7,940	608	10001	7,940	SF	4" CONCRETE WALK, AS PER PLAN	5
		180											180	608	13000	180	SF	6" CONCRETE WALK	
		460											460	608	15000	460	SF	8" CONCRETE WALK	
																		EROSION CONTROL	
360													360	659	00300	360	CY	TOPSOIL	5
3,235													3,235	659	00510	3,235	SY	SEEDING AND MULCHING, CLASS 2	5
0.45													0.45	659	20000	0.45	TON	COMMERCIAL FERTILIZER	5
18													18	659	35000	18	MGAL	WATER	5
2,680													2,680	670	00500	2,680	SY	SLOPE EROSION PROTECTION	5
30,000													30,000	832	30000	30,000	EACH	EROSION CONTROL 1	5
																		DRAINAGE	
3.06		0.4											3.46	602	20000	3.46	CY	CONCRETE MASONRY	
85		115											200	611	04400	200	FT	12" CONDUIT, TYPE B	
		25											25	611	04600	25	FT	12" CONDUIT, TYPE C	
110													110	611	07400	110	FT	18" CONDUIT, TYPE B	
		1											1	611	99574	1	EACH	MANHOLE, NO. 3	
		1											1	611	99654	1	EACH	MANHOLE ADJUSTED TO GRADE	
																		PAVEMENT	
				249									249	254	01000	249	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"	
				71									71	301	56000	71	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
				71									71	304	20000	71	CY	AGGREGATE BASE	
				87									87	407	20000	87	GAL	NON-TRACKING TACK COAT	
				36									36	441	70000	36	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
				14									14	442	22120	14	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449) (DRIVEWAYS)	
				28									28	452	10010	28	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
				85									85	452	12010	85	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
				200									200	609	12000	200	FT	COMBINATION CURB AND GUTTER, TYPE 2	
				590									590	609	26000	590	FT	CURB, TYPE 6	
																		WATER WORK	
		1											1	638	10501	1	EACH	FIRE HYDRANT REMOVED AND RESET, AS PER PLAN	5
																		TRAFFIC CONTROL	
						145.5							145.5	630	03100	145.5	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
						8							8	630	08600	8	EACH	SIGN POST REFLECTOR	
								13					13	630	79000	13	EACH	SIGN HANGER ASSEMBLY, SPAN WIRE	
								14					14	630	79501	14	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN	52
						67.75		92.5					160.25	630	80100	160.25	SF	SIGN, FLAT SHEET	
								4					4	630	80500	4	EACH	SIGN, DOUBLE FACED, STREET NAME	
						4							4	630	85000	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND STORAGE	
						4							4	630	85100	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
						5							5	630	86006	5	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND STORAGE	
						2							2	630	86010	2	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND REERECTION	
						0.07							0.07	644	00104	0.07	MILE	EDGE LINE, 6"	
						0.4							0.4	644	00300	0.4	MILE	CENTER LINE	
						350							350	644	00404	350	FT	CHANNELIZING LINE, 12"	
						49							49	644	00500	49	FT	STOP LINE	
						290							290	644	00630	290	FT	CROSSWALK LINE, 24"	
						155							155	644	00700	155	FT	TRANSVERSE/DIAGONAL LINE, YELLOW	

DESIGN AGENCY
CMT
CRAWFORD, MURPHY & TILLY, INC.
7777 WASHINGTON VILLAGE DR
SUITE 270
DAYTON, OHIO 45459
PH (937)701-2193
www.cmtengr.com

DESIGNER BMR

REVIEWER JWB 07/01/25

PROJECT ID 117202