



				5	TANDARD CONSTRUCTION DRAWINGS		SUPPL SPECIF	EMENTAL ICATIONS	SPECIAL PROVISIONS
	CB-2.1	7/20/18	MT-95.30	7/19/19			55-800	10/18/19	WATCOWAN
	CB-3.1	1/15/16	MT-95.31	7/19/19		$\cap$	55-221	120/0	WAIERWAY
·····			MT-95.32	4/19/19			55-832	10/10/18	CONDITIONS
ENGINEERS SEAL:	HW-2_1	7/20/18	MT-95.45	4/19/19		-	55-888	4/15/05	11/14/2019
	HW-2.2	7/20/18	MT-97.10	4/19/19		~	55-862	10/15/15	ENUTRONIE EUT
CHARLES * MITCHELL = 54371 BONAL FUS			MT-98.28	1/20/17	· · · · · · · · · · · · · · · · · · ·		55-878	1/18/10	COMMITMENTS 11/15/2019
	MH-1.1	1/15/16	MT-98.29	7/19/19			55-902	7/10/10	
	MH-1.2	1/15/16	MT-101.70	7/20/18	· · · · · · · · · · · · · · · · · · ·		55-021	A /20 /12	
			MT-101,75	7/15/18		and the second second		772.0712	2000 10000000
	DM-1.1	7/21/17	MT-103.10	1/19/18					
	DM-4.3	1/15/16						1000 A 100 A 100	
	DM-4.4	1/15/16	TC-41.20	10/18/13			<u> </u>		
			TC-42.20	10/18/13					
	RM-4.1	7/21/17					<b>-</b>		
GNED MAN MANUE	RM-4.5	7/21/17							
ATE: 18-NOV-2019	-		. AMARA						

Contract Proposal Available @ \_\_\_\_\_\_ www.contracts.dot.state.oh.us/home

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PROJECT DESCRIPTION THIS PROJECT INCLUDES STREAM STABILIZATIO CREEK ALONG NORTHBOUND I-71 BEGINNING AT ROAD INTERCHANGE AND DRAINAGE IMPROVEMEN NORTH BOUND EXIT RAMP TO STEWART ROAD. RAMP_E PROJECT EARTH DISTURBED AREA: ESTIMATED CONTRACTOR EARTH DISTURBED AREA: NOTICE OF INTENT: NOI NOT REQUIRED STREAM CTARK DISTURDED	ON OF DUCK THE RED BANK ITS ALONG THE 0.50 ACRES 0.25 ACRES	FEDERAL PROJECT NO.	E170 (065)
SINEAM STABILIZATION PROJECT EARTH DISTURBED AREA: ESTIMATED CONTRACTOR EARTH DISTURBED AREA: NOTICE OF INTENT:	6.22 ACRES 0.25 ACRES 6.47 ACRES	PID NO.	77798
2019 SPECIFICATIONS THE STANDARD SPECIFICATIONS OF THE STAT. OHIO, DEPARTMENT OF TRANSPORTATION, INCLU SUPPLEMENTAL SPECIFICATIONS LISTED IN THE F AND CHANGES LISTED IN THE PROPOSAL SHALL G THIS IMPROVEMENT. I HEREBY APPROVE THESE PLANS AND DECLARE THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HID AND THAT PROVISIONS' FOR THE MAINTENANCE SAFETY OF TRAFFIC WILL BE AS SET FORTH OF PLANS AND ESTIMATES.	E OF JDING PLANS OVERN THAT T SHWAY AND ON THE	RAILROAD INVOLVEMENT	NONE
APPROVED Tamp & Carpbell DATE III 18/19 DINKICT DEFUTY DIRECTOR APPROVED DIRECTOR, DEPARTMENT OF TRANSPORTATION	2	9710 12 42/10 75	

#### <u>ROUNDING</u>

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

## <u>UTILITIES</u>

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

STORM:

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MOHAMMED M. ISLAM PROJECT ENGINEERING MANAGER HAMILTON COUNTY PLANNING & DEVELOPMENT STORM WATER & INFRASTRUCTURE 138 EAST COURT STREET ROOM 801 CINCINNATI, OHIO 45202 PHONE: (513) 946-4757 EMAIL: MOHAMMAD.ISLAM@HAMILITON-CO.ORG

#### SANITARY:

ROB FRANKLIN UTILITY REVIEWER METROPOLITAN SEWER DISTRICT OF GREATER CINCINNATI (MSD) 1600 GEST STREET CINCINNATI, OHIO 45204 PHONE: (513) 557-7188 EMAIL: ROB.FRANKLIN@CINCINNATI-OH.GOV EMAIL: MSDUTILITYREVIEW@CINCINNATI-OH.GOV

#### WATER:

JON HUNSEDER GREATER CINCINNATI WATER WORKS 4747 SPRING GROVE AVE CINCINNATI, OHIO 45232 PHONE: (513) 591-5056 EMAIL: JON.HUNSEDER@GCWW.CINCINNATI-OH.GOV

RICK LEHMKUHL PUBLIC WORKS SUPERINTENDENT VILLAGE OF SILVERTON 3869 ALTA AVENUE SILVERTON, OHIO 45236 PHONE: (513) 936-6230 EMAIL: RLEHMKUHL@SILVERTONOHIO.US

ELECTRIC: AARON WRIGHT DUKE ENERGY 2010 DANA AVENUE CINCINNATI, OHIO 45207 PHONE: (513) 458-3856 EMAIL: AARON.WRIGHT@DUKE-ENERGY.COM

GAS: DUKE ENERGY 139 EAST FOURTH STREET, ROOM 460A CINCINNATI, OHIO 45202 EMAIL: OH/KYHOUSEBILL@DUKE-ENERGY.COM

TELEPHONE: ROB STROCHINSKY CINCINNATI BELL - AERIAL & PLACING 221 EAST FOURTH STREET, BLDG. 121-900 CINCINNATI, OHIO 45201 PHONE: (513) 565-6014 EMAIL: ROBERT.STROCHINSKY@CINBELL.COM ROADPROJECTS@CINBELL.COM

### EXISTING PLANS

EXISTING PLANS ENTITLED HAM-71-1.30/9.00 MAY BE INSPECTED IN THE ODOT DISTRICT 8 OFFICE IN LEBANON.

#### SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITION-ING 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: VRS MONUMENT TYPE: B

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88 GEOID: GEOID12A/B

#### HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011) ELLIPSOID: GRS80 MAP PROJECTION: LAMBERT CONFORMAL CONIC COORDINATE SYSTEM: OHIO STATE PLANE, SOUTH ZONE COMBINED SCALE FACTOR: 0.99991875 ORIGIN OF COORDINATE SYSTEM: 0,0

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. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

#### 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 THESE WORK LIMITS.

#### CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

#### ITEM 203 - EMBANKMENT, AS PER PLAN

FILL AND SLOPE PORTIONS OF THE EXISTING CHANNEL TO DRAIN AS SHOWN IN THESE PLANS. IN CHANNEL EMBANKMENT AREAS WHICH WILL NOT SUPPORT ANY PORTION OF THE NEW ROAD BED OR STRUCTURAL EMBANKMENTS, THE CONTRACTOR MAY UTILIZE EMBANKMENT METHODS MEETING THE FOLLOWING REQUIREMENTS:

CLEAR ALL WEEDS AND BRUSH IN AREAS WHERE CHANNEL EM-BANKMENTS ARE TO BE PLACED. THE REQUIREMENTS FOR MOISTURE, DENSITY CONTROL, BENCHING AND SUITABLE MATERIALS IS WAIVED. PLACE THE MATERIAL IN 8-INCH LOOSE LIFTS. THE ENGINEER MAY INCREASE THE LIFT THICK-NESS IN ORDER TO BRIDGE THE SOFT OR WET FOUNDATIONS DEPENDING ON THE STABILITY OF THE FOUNDATION. THE ENGINEER MAY INCREASE THE LIFT THICKNESS UP TO 24-INCHES TO OBTAIN STABILITY AT THE TOP OF THE LIFT.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 203, EMBANKMENT, AS PER PLAN.

#### PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF PIPES.

ITEM 441 - 1 <sup>1</sup>/<sub>4</sub> " ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22 3 CU. YDS. ITEM 441 - 1 <sup>3</sup>/<sub>4</sub> " ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) 4 CU. YDS. ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22 14 CU. YDS. ITEM 304 - 6" AGGREGATE BASE 14 CU. YDS.

ITEM 609 - CURB, TYPE 2-B 11 FT. ITEM 609 - CURB, TYPE 3-B 97 FT.

ITEM 202 - PAVEMENT REMOVED, ASPHALT 84 SQ. YDS. ITEM 202 - CURB REMOVED 108 FT.

THE ABOVE QUANTITIES ARE BASED ON THE THICKNESS SHOWN ABOVE AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH. PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

### PAVEMENT RESTORATION FOR DRAINAGE STRUCTURE INSTALLATIONS

THE FOLLOWING QUANTITIES ARE PROVIDED FOR PAVEMENT RE-STORATION FOLLOWING INSTALLATION OF ITEM 611 DRAINAGE STRUCTURES.

ITEM 442 -  $1 \frac{1}{2}$ " ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A (448) 1 CU. YDS. ITEM 301 - 10  $\frac{1}{2}$ " ASPHALT CONCRETE BASE, PG64-22 5 CU. YDS. ITEM 304 - 6" AGGREGATE BASE 3 CU. YDS.

ITEM 609 - CURB, TYPE 3-B 8 FT.

ITEM 202 - PAVEMENT REMOVED, ASPHALT 17 SQ. YDS. ITEM 202 - CURB REMOVED 20 FT.

THE ABOVE QUANTITIES ARE BASED THE THICKNESS SHOWN ABOVE AND A WIDTH OF TWO FEET AROUND THE PERIMETER OF THE DRAINAGE STRUCTURE.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

## CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM. S

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# REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.



