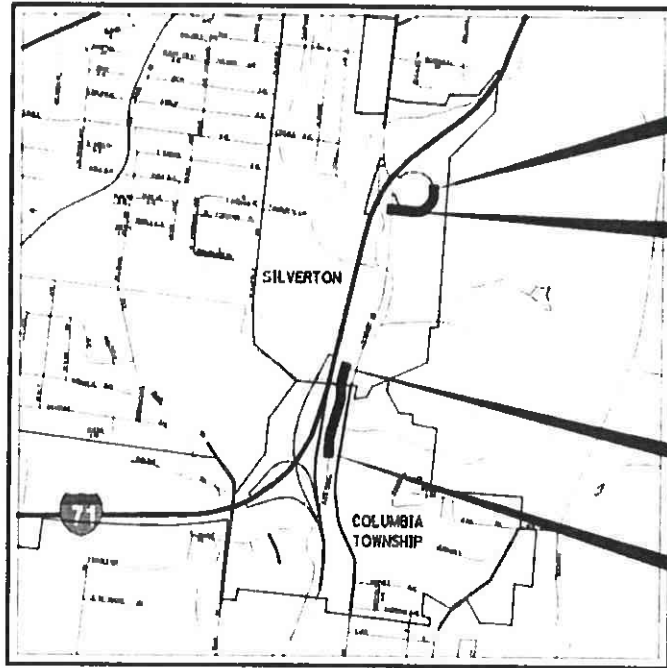


HAM - IR 71-09.92/10.75
 204002 PID - 99777
 Dist 8 2/13/2020

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



LOCATION MAP

LATITUDE: 39°10'26" LONGITUDE: 84°23'53"



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

DESIGN EXCEPTIONS

NONE REQUIRED

STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION

HAM-71-9.92/10.75

**CITY OF SILVERTON
 COLUMBIA TOWNSHIP
 HAMILTON COUNTY**

RESUME PROJECT
 HAM-71-10.75
 STA. 14+25.00
 RAMP F

END PROJECT
 HAM-71-10.75
 STA. 3+32.27
 RAMP F

SUSPEND PROJECT
 HAM-71-9.92
 STA. 497+25

BEGIN PROJECT
 HAM-71-9.92
 STA. 479+70

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PROJECT DESCRIPTION

THIS PROJECT INCLUDES STREAM STABILIZATION OF DUCK CREEK ALONG NORTHBOUND I-71 BEGINNING AT THE RED BANK ROAD INTERCHANGE AND DRAINAGE IMPROVEMENTS ALONG THE NORTH BOUND EXIT RAMP TO STEWART ROAD.

RAMP F

PROJECT EARTH DISTURBED AREA: 0.50 ACRES
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.25 ACRES
 NOTICE OF INTENT: NOT REQUIRED

STREAM STABILIZATION

PROJECT EARTH DISTURBED AREA: 6.22 ACRES
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.25 ACRES
 NOTICE OF INTENT: 6.47 ACRES

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.

UNDERGROUND UTILITIES
 CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG

Before You Dig
 OIL & GAS PRODUCERS
 UNDERGROUND PROTECTION SERVICE
 1-800-925-0988

PLAN PREPARED BY:



ENGINEERS SEAL:



SIGNED: *Charles A. Mitchell*
 DATE: 18-NOV-2019

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
CB-2.1	7/20/18	MT-95.30	7/19/19	SS-800 10/18/19	WATERWAY PERMIT CONDITIONS 11/14/2019
CB-3.1	1/15/16	MT-95.31	7/19/19	SS-821 4/20/12	
		MT-95.32	4/19/19	SS-832 10/19/18	
HW-2.1	7/20/18	MT-95.45	4/19/19	SS-838 4/15/05	ENVIRONMENTAL COMMITMENTS 11/15/2019
HW-2.2	7/20/18	MT-97.10	4/19/19	SS-862 10/16/15	
MH-1.1	1/15/16	MT-98.29	7/19/19	SS-878 1/18/19	
MH-1.2	1/15/16	MT-101.70	7/20/18	SS-902 7/19/19	
		MT-101.75	7/15/16	SS-921 4/20/12	
DM-1.1	7/21/17	MT-103.10	1/19/18		
DM-4.3	1/15/16				
DM-4.4	1/15/16	TC-41.20	10/18/13		
		TC-42.20	10/18/13		
RM-4.1	7/21/17				
RM-4.5	7/21/17				

APPROVED: *Tammy K Campbell*
 DATE: 11/18/19 DISTRICT DEPUTY DIRECTOR

APPROVED: *Julie M. Woodhams*
 DATE: 11/20/19 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E170 (065)
 PID NO. 99777
 CONSTRUCTION PROJECT NO. NONE
 RAILROAD INVOLVEMENT NONE
 HAM-71-9.92/10.75
 1/61

ROUNDING

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

UTILITIES

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

STORM:
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@HAMILTON-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 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: 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 EMBANKMENTS 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 THICKNESS 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 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22 3 CU. YDS.
ITEM 441 - 1 3/4" 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 RESTORATION FOLLOWING INSTALLATION OF ITEM 611 DRAINAGE STRUCTURES.

ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5mm, TYPE A (448) 1 CU. YDS.
ITEM 301 - 10 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.

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.

INTERIM COMPLETION DATE

ALL WORK FOR HAM-71-10.75, RAMP F1 AND RAMP F SHALL BE COMPLETED BY JUNE 30, 2020.

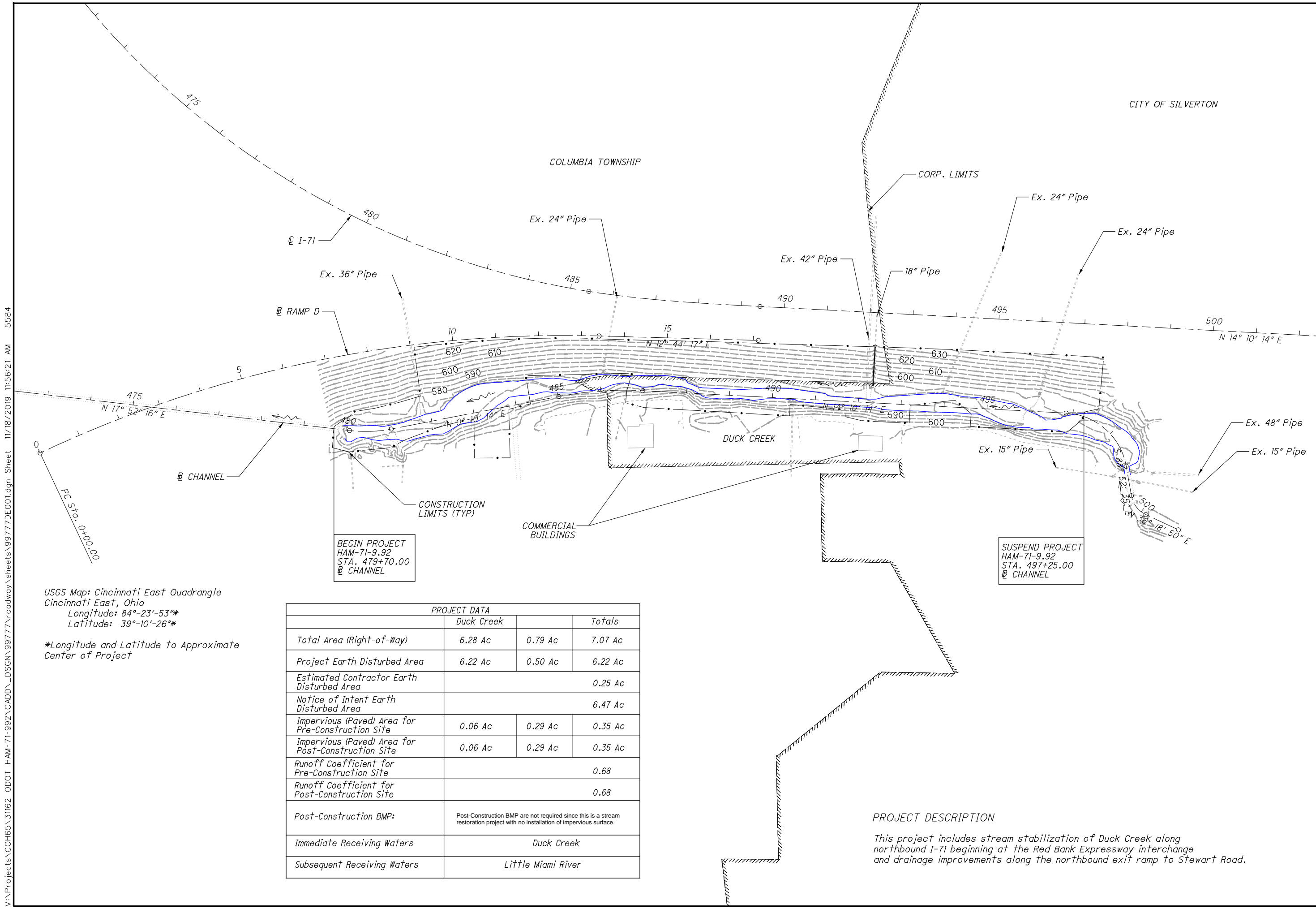
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CALCULATED
AJS
CHECKED
BJA

GENERAL NOTES

HAM-71-9.92/10.75

4
61



USGS Map: Cincinnati East Quadrangle
 Cincinnati East, Ohio
 Longitude: 84°-23'-53"*
 Latitude: 39°-10'-26"*

*Longitude and Latitude to Approximate Center of Project

PROJECT DATA			
	Duck Creek		Totals
Total Area (Right-of-Way)	6.28 Ac	0.79 Ac	7.07 Ac
Project Earth Disturbed Area	6.22 Ac	0.50 Ac	6.22 Ac
Estimated Contractor Earth Disturbed Area			0.25 Ac
Notice of Intent Earth Disturbed Area			6.47 Ac
Impervious (Paved) Area for Pre-Construction Site	0.06 Ac	0.29 Ac	0.35 Ac
Impervious (Paved) Area for Post-Construction Site	0.06 Ac	0.29 Ac	0.35 Ac
Runoff Coefficient for Pre-Construction Site			0.68
Runoff Coefficient for Post-Construction Site			0.68
Post-Construction BMP:	Post-Construction BMP are not required since this is a stream restoration project with no installation of impervious surface.		
Immediate Receiving Waters	Duck Creek		
Subsequent Receiving Waters	Little Miami River		

PROJECT DESCRIPTION

This project includes stream stabilization of Duck Creek along northbound I-71 beginning at the Red Bank Expressway interchange and drainage improvements along the northbound exit ramp to Stewart Road.

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