

UTILITIES

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

CITY OF UPPER ARLINGTON (WATER, SANITARY, STORM, FIBER)
 ATTN: AARON SCOTT
 4100 ROBERTS ROAD
 COLUMBUS, OHIO 43228
 614-583-5360
 ASCOTT@UAOH.NET

AMERICAN ELECTRIC POWER (AEP)
 ATTN: ROBERT MATTHEWS
 700 MORRISON ROAD
 GAHANNA, OH 43230
 614-883-6831
 REMATTHEWS@AEP.COM

COLUMBIA GAS OF OHIO
 ATTN: KAITLIN DYGERT (KEENE)
 3550 JOHNY APPLESEED COURT
 COLUMBUS, OH 43231
 412-652-5003
 KDYGERT@NISOURCE.COM

AT&T SERVICES, INC.
 ATTN: STEVE CONNELL
 111 NORTH 4TH STREET
 8TH FLOOR
 COLUMBUS, OHIO 43215
 614-312-2095
 SC2732@ATT.COM

CHARTER SPECTRUM
 ATTN: STEVE SPURLOCK
 3760 INTERCHANGE ROAD
 COLUMBUS, OHIO 43204
 614-402-1979
 STEVE.SPURLOCK@CHARTER.COM

BREEZELINE (WIDE OPEN WEST)
 ATTN: MIKE TILLIS
 614-207-1872
 MDTILLIS@TEAMFISHEL.COM

EVERSTREAM
 ATTN: KANN KHAY
 614-354-7666
 KKHAY@EVERSTREAM.NET

ODOT DISTRICT 6 ATTN: AJ LENT 400 E. WILLIAM STREET DELAWARE, OH 43015 740-833-8000	COLUMBUS WATER AND POWER WATERSHED MANAGEMENT ATTN: LORRAINE KRZYZEWSKI 614-645-1748 LOWINTERS@COLUMBUS.GOV
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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.

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"	36	5	41
30"	4	0	4
48"	2	2	4

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE THIS SHEET 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 VRS
 MONUMENT TYPE: TYPE A

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
 GEOID: GEOID 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
 ELLIPSOID: GRS 80
 COORDINATE SYSTEM: OHIO STATE PLANE, SOUTH ZONE
 COMBINED SCALE FACTOR: 1.00003303.
 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.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 284 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FEDERAL AVIATION ADMINISTRATION
 SOUTHWEST REGIONAL OFFICE
 OBSTRUCTION EVALUATION GROUP
 10101 HILLWOOD PARKWAY
 FORTH WORTH, TX 76177
 FAX: (817) 222-5920
<http://ceaaa.faa.gov>

OHIO DEPARTMENT OF TRANSPORTATION
 OFFICE OF AVIATION
 2829 WEST DUBLIN-GRANVILLE ROAD
 COLUMBUS, OH 43235
ohio.airport.protection@dot.ohio.gov

ROADWAY

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DILLED, 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.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE MASH 2016 TYPE E TANGENTIAL END TREATMENTS FOR TYPE MGS GUARDRAIL AS LISTED UNDER "PRODUCTS ACCEPTED FOR NEW INSTALLATIONS" ON THE ROADWAY APPROVED PRODUCTS LIST POSTED ON ROADWAY ENGINEERING'S WEB PAGE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. REFER TO THE POSTED SHOP DRAWINGS FOR THE MOST CURRENT APPROVED PRODUCT MODELS.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH SOLID FLUORESCENT YELLOW REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

WHEN THE FACE OF THE ADJACENT (ATTACHED) GUARDRAIL IS LESS THAN 4' OFFSET FROM THE PROPOSED EDGE LINE, AND PERMITTING SITE CONDITIONS EXIST: THE PROPOSED TYPE E ANCHOR ASSEMBLY SHALL BE INSTALLED AT A CONSISTENT FLARE RATE THROUGH THE FULL LENGTH OF THE SYSTEM. THE FLARE RATE SHALL BE A MAXIMUM OF 25:1 (RESULTING IN A 2' OFFSET). THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE SHOP DRAWINGS, PRODUCT INSTALLATION MANUAL/GUIDANCE, AND AS DIRECTED BY THE ENGINEER.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

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.

ENVIRONMENTAL

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM MARCH 15 THROUGH NOVEMBER 15. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM NOVEMBER 16 THROUGH MARCH 14. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK 3 INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

COLUMBUS PUBLIC WATER SYSTEM

THIS PROJECT IS LOCATED WITHIN THE INLAND SURFACE WATER/CORRIDOR MANAGEMENT ZONE FOR THE COLUMBUS PUBLIC WATER SYSTEM (OH2504412) AND THE INLAND SURFACE WATER/SOURCE WATER PROTECTION AREA FOR THE COLUMBUS PUBLIC WATER SYSTEM (OH2504412). USE PROPER CONTAINMENT AND DIKING IN REFUELING AREAS. DO NOT STORE FUELS, TOXIC/HAZARDOUS MATERIALS, AND CHEMICALS NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. MAINTAIN A SPILL KIT ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. IMMEDIATELY MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. REPORT ALL SPILLS OR EVENTS TO THE CITY OF COLUMBUS PUBLIC UTILITIES -DIVISION OF WATER AT (614) 645-7788. IF THE SPILL IS A REPORTABLE AMOUNT PER OHIO EPA'S RELEASE REPORTING REQUIREMENTS, CONTACT CITY OF COLUMBUS DIVISION OF FIRE AT (614) 645-7533 X75001 OR THE OHIO EPA'S SPILLS HOTLINE 1-800-282-9378 FOR CLEAN-UP OF THE SPILL.

COLUMBUS RECREATION AND PARKS DEPARTMENT (CRPD)

ENTRY INTO A CITY PARK OR PARKLAND FOR CONSTRUCTION OR ANY OTHER NON-DESIGN USE IS PROHIBITED UNLESS A MOU/NPUP IS IN PLACE. UNLESS SPECIFIC PERMISSIONS ARE GRANTED BY CRPD ACCESS TO, FROM, ON, OVER, UNDER, THROUGH, ACROSS OR OTHER RELATED NON-PARK OR NON-TRAIL USE OF THE TRAIL CORRIDOR/ PARKLAND IS NOT GRANTED OR IMPLIED. THE CONTRACTOR SHALL NOT STAGE/STORE ANY MATERIALS OR EQUIPMENT OUTSIDE THEIR WORK LIMITS IN COLUMBUS RECREATION & PARKS PROPERTY. THE DEPARTMENT NON-PARK USE POLICY (NPUP) REQUIRES THAT AN MOU BE IN PLACE PRIOR TO WORK WITHIN A CITY PARK AND ON-SITE DURING ACCESS. PLEASE CONTACT CRPD AT CRPD_NPUP@COLUMBUS.GOV TO COORDINATE EFFORTS. RECREATION & PARKS SHALL TAKE PRECEDENCE AND CONTRACTOR WILL BE REQUIRED TO ADJUST WORK SCHEDULE AS NECESSARY FOR WORK ON PARK PROPERTY. THIS INCLUDES CONSTRUCTION PARKING.



PROJECT CONTROL POINTS INFORMATION

POINT NUMBER	GRID COORDINATES U.S. SURVEY FEET		GROUND COORDINATES U.S. SURVEY FEET		ORTHOMETRIC HEIGHT (ELEVATION)	U.S. 33 ¢ CONSTRUCTION STATION	OFFSET FROM U.S. 33 ¢ CONSTRUCTION	DESCRIPTION
	NORTHING	EASTING	NORTHING	EASTING				
CP100	739839.237	1802691.603	739863.674	1802751.146	791.38	110+67.19	49.00' RT	IRON PIN SET
CP101	740074.212	1802631.277	740098.657	1802690.818	790.86	108+27.05	66.80' RT	IRON PIN SET
CP102	740578.103	1802594.781	740602.564	1802654.321	791.04	103+24.66	32.80' RT	IRON PIN SET
CP103	741102.933	1802578.559	741127.412	1802638.098	792.83	98+02.75	24.66' LT	IRON PIN SET

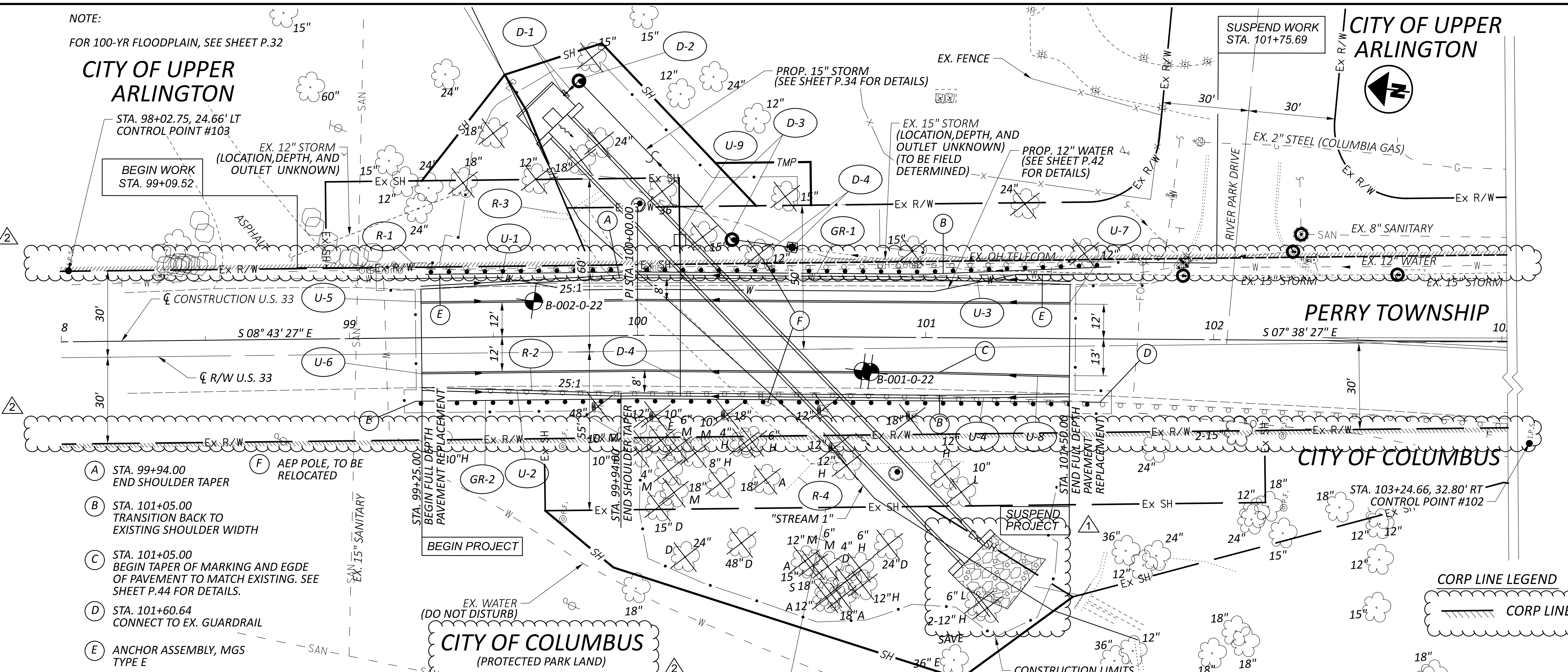
NOTE:
 FOR 100-YR FLOODPLAIN, SEE SHEET P.32

CITY OF UPPER ARLINGTON

STA. 98+02.75, 24.66' LT CONTROL POINT #103

BEGIN WORK STA. 99+09.52

EX. 12" STORM (LOCATION, DEPTH, AND OUTLET UNKNOWN)

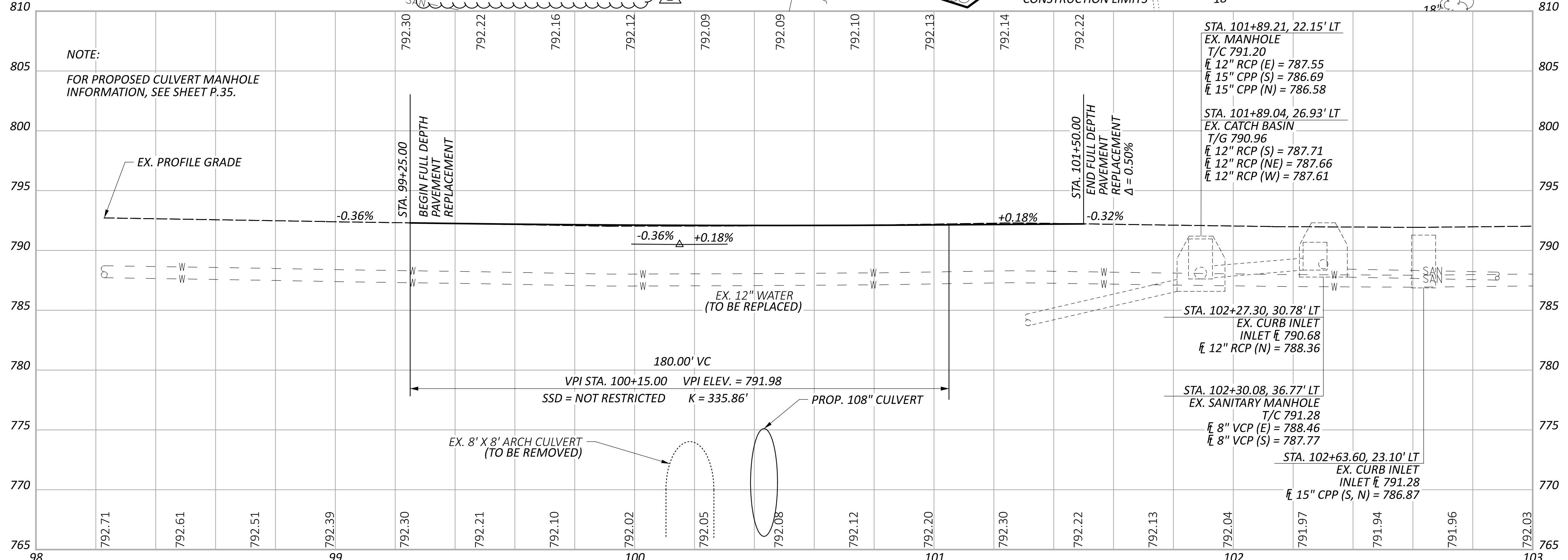
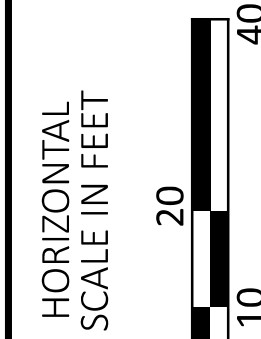
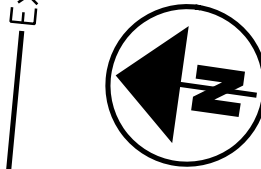


- (A) STA. 99+94.00 END SHOULDER TAPER
- (B) STA. 101+05.00 TRANSITION BACK TO EXISTING SHOULDER WIDTH
- (C) STA. 101+05.00 BEGIN TAPER OF MARKING AND EDGE OF PAVEMENT TO MATCH EXISTING. SEE SHEET P.44 FOR DETAILS.
- (D) STA. 101+60.64 CONNECT TO EX. GUARDRAIL
- (E) ANCHOR ASSEMBLY, MGS TYPE E
- (F) AEP POLE, TO BE RELOCATED

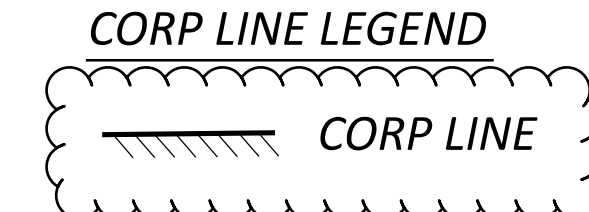
CITY OF COLUMBUS (PROTECTED PARK LAND)

CITY OF UPPER ARLINGTON

SUSPEND WORK STA. 101+75.69



NOTE:
 FOR PROPOSED CULVERT MANHOLE INFORMATION, SEE SHEET P.35.



PLAN AND PROFILE
 STA. 98+00 TO STA. 103+00

DESIGN AGENCY	EUTHENICS 8235 Mahan Dr., Cleveland, OH 44132
DESIGNER	ESM
REVIEWER	BPS
PROJECT ID	108081
SHEET	P.23
TOTAL	57