

SPECIAL PROVISIONS

WATERWAY PERMITS CONDITIONS

C-R-S: FRA-62-8.91

PID: 114103

Date: 05/20/2026

1. Waterway Permits Time Restrictions:

A Nationwide Permit #7 (Outfall Structures and Associated Intake Structures) (NWP #7) is authorized for FRA-62-8.91, PID 114103. A copy of the NWP and authorization letter (ID LRH-2024-00685-SCR-Scioto Big Run) shall be kept at the work site at all times and made available to all contractors and subcontractors. The permit is effective starting: **May 20, 2026**. The permit expires: **March 15, 2031**.

For authorized work in aquatic resources (including streams, wetlands, jurisdictional ditches, captured streams, lakes, ponds), the Department will consider the Contractor's submission of a reauthorization to the waterway permit expiration date based on project constraints. If more than one permit is authorized for the project, then all permits become invalid once the first permit expires. In order for the request to be considered, the Contractor must submit a justification to the Engineer at least 90 days prior to the waterway permit expiration date. The Engineer will submit the request for a time extension to the Ohio Department of Transportation, Office of Environmental Services, Waterway Permits Unit (ODOT-OES-WPU) for consideration and coordination with the U.S. Army Corps of Engineers (USACE), Ohio Environmental Protection Agency (OEPA), U.S. Coast Guard (USCG), U.S. Fish and Wildlife Service (USFWS), and Ohio Department of Natural Resources (ODNR) as appropriate.

2. Deviations From Permitted Construction Activities:

No deviation from the requirements for work in aquatic resources depicted in the plans, Special Provisions, and/or Working Drawings may be made unless a modification has been submitted to ODOT-OES-WPU and approved by the appropriate agencies (i.e., USACE, OEPA, USCG, ODNR, and USFWS).

For emergency situations resulting in unanticipated impacts to aquatic resources, provide notification (verbal or written) to the Engineer as soon as possible following discovery of the situation. Written notification to the Engineer and notification to the ODOT-OES-WPU (614-466-2159) must be made within 24 hours.

For non-emergency situations, notify the Engineer in writing for submission to the ODOT-OES-WPU (614-466-2159) for consideration and coordination with the appropriate agencies. Notification must be made at least 90 days prior to planned, non-permitted activities. Consideration of the requested deviation is at the discretion of the Director and must be coordinated with the appropriate regulatory agencies.

3. In-Stream Work Restrictions:

Work in the following aquatic resources is further restricted as follows:

Stream Name /Description	Location	Work restriction dates (No in-stream work permitted)
Scioto Big Run	STA 113+50	None

In-stream work has been defined as the placement and/or removal of fill materials (temporary or permanent) below ordinary high water of a stream. Examples of “fill” include, but are not limited to: bridge piers, abutments, culverts, rock channel protection, scour protection, and temporary access fills.

Fills placed within a stream identified in the above table (outside of the work restriction dates) can continue to be worked from during the work restriction dates, but cannot be expanded, removed, or otherwise modified (below ordinary high water) until once again outside of the work restriction dates.

4. Materials:

Materials utilized in or adjacent to aquatic resources for permanent fill or bank protection shall consist of suitable material free from toxic contaminants in other than trace quantities. Asphalt products are specifically excluded for use as fill. Chromated Copper Arsenate (CCA), creosote, and other pressure treated lumber shall not be used in structures that are placed in aquatic resources.

5. Aquatic Resource Demarcation:

The Table 2 includes detailed fill quantities authorized within the aquatic resources. Aquatic resources not authorized for impact by these Special Provisions shall be demarcated in the field as per SS 832 prior to site disturbance. The fence shall remain in place and be maintained throughout the construction process. Following the completion of the project, the fence and posts shall be removed.

6. Spill containment:

Provide and Maintain an Oil Spill Kit with a minimum capacity of 65 gallons. The Spill Kit shall contain:

- 6 - 3 in. X 8 ft. Oil only socks
- 4 - 18 in. X18 in. Oil only pillows
- 2 - 5 in. X 10ft. Booms
- 50 - 16in. X 20 in. Oil only pads
- 10- Disposable Bags
- 1 - 65 Gallon drum with lid
- 25 pounds of Granular Oil Absorbent

The Oil Spill Kit shall be located within 150 feet of any equipment working in a stream or wetland. The oil Spill Kit shall be maintained for the life of the contract. Any materials utilized during the project will be replaced within 48 hours. All costs associated with furnishing and maintaining the above referenced spill containment kit is incidental to work.

7. Project Inspection:

Inspection of Work may include inspection by representatives of other government agencies or railroad corporations that pay a portion of the cost of the Work or regulate the Work through

State and Federal law. Comments from the representatives of these agencies shall be directed to the Engineer. Please forward a copy to ODOT-OES-WPU (614-466-2159).

8. Temporary Fill Activities:

Temporary fill in aquatic resources is not authorized for this project. Temporary fill includes, but is not limited to, causeways, work pads, cofferdams, sheet piling, temporary bridges, and construction equipment. Any unauthorized temporary impacts that occur will be in violation of Section 404 and 401 of the Clean Water Act.

9. Excavation Activities:

Excavated material will be placed at an upland site and disposed of in such a manner that sediment and runoff to streams and other aquatic resources is controlled and minimized. Additionally, no more than incidental fallback into jurisdictional waters of the U.S. is permitted during the excavation process. If any changes to the proposed work are deemed necessary, Notify the Engineer who will immediately contact the ODOT-District Environmental Coordinator and ODOT-OES-WPU (614-466-2159).

10. Demolition Debris:

The intentional discharge of demolition debris from any structure (including but not limited to bridges, culverts, abutments, wing walls, piers) is not authorized for this project. If any demolition debris inadvertently falls into aquatic resources, it must be removed immediately. The Engineer will immediately in writing of any inadvertent fill discharged into aquatic resources. Also contact ODOT-OES-WPU at 614-466-2159 if any unintentional discharge occurs.

11. Construction Completion Certification:

Upon completion of the work, notify the Engineer. The USACE Construction Completion Certification must be completed and signed by the Engineer then provided via US mail or email to:

Waterway Permits Program Manager
ODOT - Office of Environmental Services
1980 West Broad Street, Mail Stop 4170
Columbus, Ohio 43223
Adrienne.Earley@dot.ohio.gov

A copy of the certification has been attached to these Special Provisions.

TABLE 2. STREAM DISCHARGE AND FILL QUANTITIES

Stream	Station	Description of Impacts	Length (LF)	Width (LF)	Depth (LF)	Permanent Fill Below OHWM			Total Permanent Fill			Total Temporary Fill			Total Impact Length
						Proposed RCP									
						Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)	Area (AC)	Volume (CY)	Length (LF)
Scioto Big Run	STA-113+50	Outfall Installation and RCP	60	11.61	5	15.0	0.004	32.26	15.0	0.004	32.26	0.0	0.0	0.0	15.0
SUM:						15.0	0.004	32.26	15.0	0.004	32.26	0.0	0.0	0.0	15.0

LF = linear feet; AC = acres; CY = cubic yards; RCP = rock channel protection or the like (specify if different, i.e.. concrete block matting); NA = Not Applicable

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

FRA-62-08.91 CITY OF COLUMBUS FRANKLIN TOWNSHIP FRANKLIN COUNTY



LOCATION MAP

LATITUDE: 39°54'42.18" LONGITUDE: -83°4'7.71"



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

DESIGN DESIGNATION

CURRENT ADT (20)	20,000
DESIGN YEAR ADT (20)	22,000
DESIGN HOURLY VOLUME (20)	2,200
DIRECTIONAL DISTRIBUTION	52%
TRUCKS (24 HOUR B&C)	5%
DESIGN SPEED	45 MPH
LEGAL SPEED	40/45 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
03 PRINCIPAL ARTERIAL (URBAN)	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

OHIO811.org
Before You Dig

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

PLAN PREPARED BY:
Dynotec, Inc.
2931 E Dublin Granville Road
Suite 200
Columbus OH 43231

INDEX OF SHEETS:

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STANDARD CONSTRUCTION DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
CB-2-3 7/16/2021		HW-1.1 7/20/2018 HW-2.1 7/20/2018 HW-2.2 7/20/2018	800 7/21/2023 832 7/15/2020
MH-3 7/16/2021	TC-42.20 10/18/2013	CB 2-6 7/16/2021	895 4/8/2014
DM-1.1 7/17/2020 DM-1.2 7/16/2021	TC-52.10 10/18/2013		
DM-4.3 1/15/2016 DM-4.4 1/15/2016	TC-52.20 1/15/2021	CB 2-5 7/16/2021	
BP-4.1 7/19/2013	TC-74.10 1/21/2022	CB 2-4 7/16/2021	
	MT-97.10 4/19/2019		
TC-71.10 7/15/2022	MT-105.10 1/17/2020		
COC-1141 7/1/2022			

FEDERAL PROJECT NUMBER

E210(044)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

REPLACEMENT OF THE EXISTING STORM DRAINAGE ALONG US-62 FROM BLUE ROCK BLVD. TO SCIOTO BIG RUN CREEK. PROJECT INCLUDES GAS LINE RELOCATION AND SHOULDER WIDENING ON WEST SIDE OF 62.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.85 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.1 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	0.95 ACRES
CITY OF COLUMBUS EARTH DISTURBED AREA:	15,000 SF
CITY OF COLUMBUS IMPERVIOUS DISTURBED:	7,200 SF
CITY OF COLUMBUS NEW IMPERVIOUS AREA:	800 SF

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.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

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

DISTRICT DEPUTY DIRECTOR

DIRECTOR, DEPARTMENT OF TRANSPORTATION

CITY OF COLUMBUS

FIRM NUMBER: 390161, ZONE D

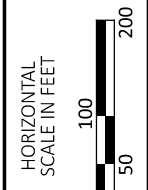
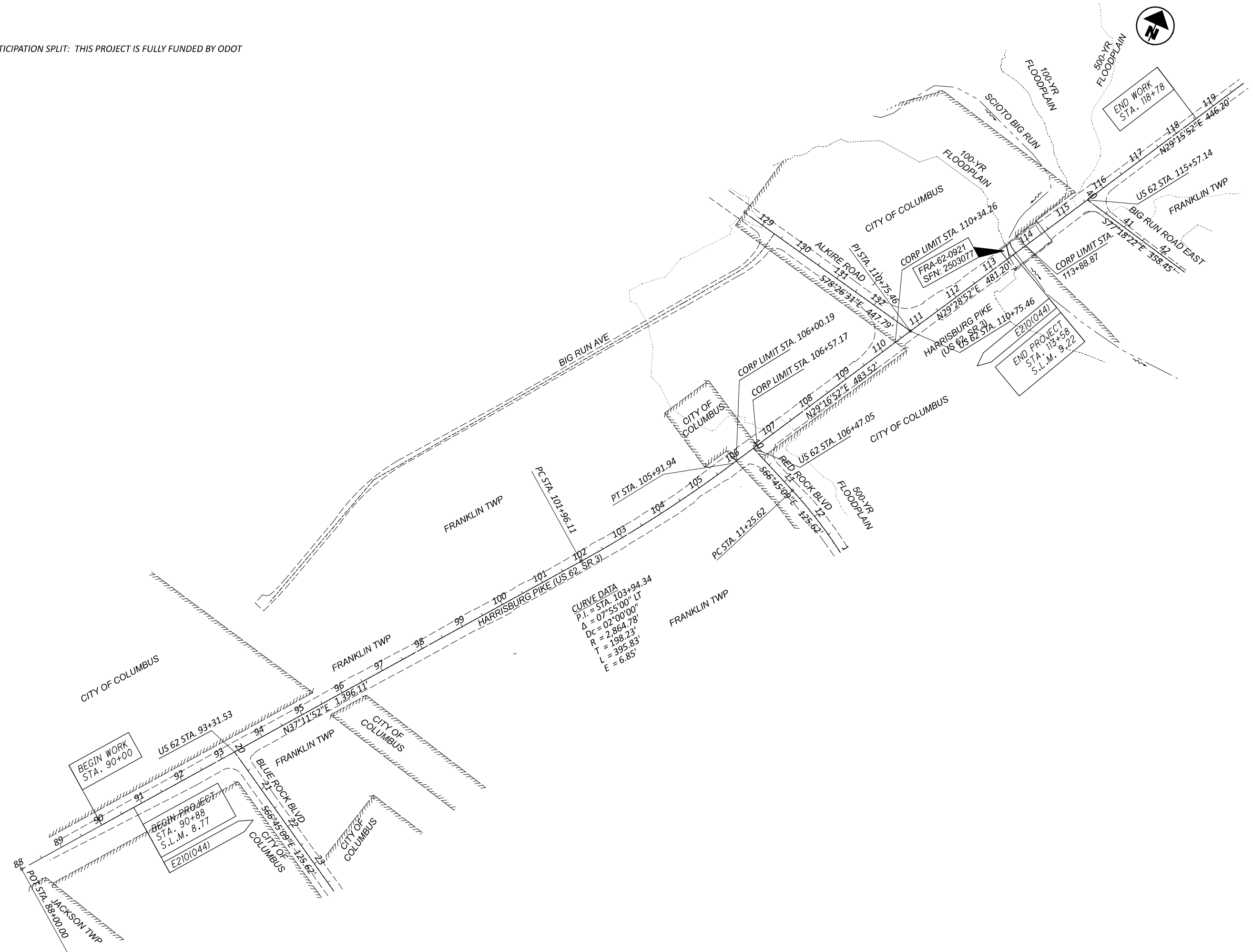
TITLE SHEET

COLUMBUS PID 3808-E
DESIGN AGENCY
DESIGNER JLS
REVIEWER MPB 01/26/24
PROJECT ID 114103
SHEET TOTAL P. 01 48

FRA-62-08.91

MODEL: Title Sheet PAPER SIZE: 17x11 (in.) DATE: 1/26/2024 TIME: 3:32:04 PM USER: jschmike N:\Jobs\2021\10029-01-20-0- ODOT District 6 FRA-62 Storm Repairs\114103\400-Engineering\Roadway\Sheets\114103_GT001.dgn

PARTICIPATION SPLIT: THIS PROJECT IS FULLY FUNDED BY ODOT



SCHEMATIC PLAN
 STA. 88+00 TO 120+00

COLUMBUS PID	3808-E
DESIGN AGENCY	
DESIGNER	JLS
REVIEWER	MPB 01/26/24
PROJECT ID	114103
SHEET	TOTAL
P. 02	48

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:

ELECTRIC:
AMERICAN ELECTRIC POWER
ATTN: PAUL PAXTON
777 HOPEWELL DRIVE
HEATH, OH 43056
OFFICE: 740-348-5322
AEP SOLUTION CENTER:
800-277-2177
ptpaxton@aep.com
ATTN: UNA BLANUSA
ohfiberrelocate@aep.com
ATTN: MICHAEL CARR
8600 SMITHS MILL ROAD
NEW ALBANY, OH 43054
OFFICE: 380-205-5072
TL PublicProjects@aep.com

CATV:
AT&T (FKA SBC)
ATTN: DONALD MARSHALL JR
111 N. 4TH STREET
COLUMBUS, OH 43215
DM619W@ATT.COM
REPAIR SERVICE: 888-611-4466
DAMAGE PREVENTION: 937-296-3929
GO1553@ATT.COM

CATV:
BREEZELINE (FKA WOW)
DL_CMHFR@ATLANTICBB.COM
MFREY@BREEZELINE.COM

SANITATION:
FRANKLIN COUNTY
WATER & SANITARY
ATTN: STEPHEN RENNER
280 E BROAD STREET,
2ND FLOOR
COLUMBUS, OHIO 43215
OFFICE: 614-525-3940

GAS:
COLUMBIA GAS OF OHIO
ATTN: ROB CALDWELL
3550 JOHNNY APPLESEED CT.
COLUMBUS, OH 43231
OFFICE: 614-818-2104
CELL: 614-370-1906
CUSTOMER SERVICE:
800-244-4077
DAMAGE PREVENTION:
866-632-6243
rcaldwell@nisource.com
COLUMBIAGAS_COLUMBUS-
ENG@NISOURCE.COM

WATER:
CITY OF COLUMBUS
WATER DEPARTMENT
910 DUBLIN ROAD
COLUMBUS, OHIO 43215
OFFICE: 614-645-7677

COTA:
33 NORTH HIGH STREET
WILLIAM J. LHOTA BUILDING
8TH FLOOR
COLUMBUS, OHIO 43215
OFFICE: 614-308-4337
COTADESIGNREVIEW@COTA.COM
EVANSPM1@COTA.COM

CATV:
CHARTER/SPECTRUM
3760 INTERCHANGE ROAD
COLUMBUS, OHIO 43204
DL-MOH-CONSTRUCTION-FRELO-
TEAM@CHARTER.COM

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.

SURVEYING PARAMETERS

HORIZONTAL CONTROL: HORIZONTAL
CONTROL IS BASED ON RAPID-STATIC GPS OBSERVATIONS, WITH NGS OPUS RESOLUTIONS, PERFORMED IN JUNE OF 2021 BY DYNOTEC, INC.

VERTICAL CONTROL: VERTICAL
CONTROL IS BASED ON THE NAVD88 (GEOID18) DATUM AS ESTABLISHED AS PART OF STATIC GPS OBSERVATIONS, PERFORMED IN JUNE OF 2021 BY DYNOTEC, INC.

HORIZONTAL POSITIONING
REFERENCE FRAME: NAD83(2011)
COORDINATE SYSTEM: OHIO STATE PLANE, SOUTH ZONE
COMBINED SCALE FACTOR: 0.99994737
ORIGIN OF COORDINATE SYSTEM: NORTHING EASTING, ELEVATION
WORK LIMITS (Y, X, Z): 0, 0, 0

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.

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, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 8 PM AND 6:30 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

PERMITS

WHEN EXCAVATING WITHIN COLUMBUS PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE-PERMIT OFFICE BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY. PHONE (614) 645-7497; FAX: (614) 645-1876; EMAIL COLSPERMIT@COLUMBUS.GOV

PROFILE AND ALIGNMENT

THE PROPOSED PAVEMENT RESURFACING SHALL FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT.

PLANED SURFACES

THE CONTRACTOR SHALL SCHEDULE THEIR OPERATIONS SUCH THAT THE PROPOSED ASPHALT INTERMEDIATE COURSE IS PLACED WITHIN SEVEN (7) CALENDAR DAYS OF PAVEMENT PLANING ON ARTERIAL AND COLLECTOR ROADS AND WITHIN FOURTEEN (14) CALENDAR DAYS ON LOCAL ROADS.

SAWCUTS AND ASPHALT CONCRETE JOINTS

THE COST OF SAWCUTS, BUTT JOINTS AND SEALING THESE JOINTS THAT ARE NOT SEPARATELY ITEMIZED IN THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE PAVING ITEMS. ALL JOINTS BETWEEN EXISTING AND PROPOSED ASPHALT CONCRETE PAVEMENT SHALL BE SEALED WITH HOT APPLIED JOINT SEALER (ODOT 705.04).

PAVEMENT RESTORATION FOR PIPE INSTALLATION AND/OR REMOVALS

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

- ITEM 301 - ASPHALT CONCRETE BASE, PG64-22 45 CU. YDS.
- ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, PG64-22 12 CU. YDS.
- ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, PG64-22 12 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 3" AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH. REFER TO CITY OF COLUMBUS STD DRAWING 1441.

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

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES AND 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.

UNSUITABLE SUBGRADE SOILS

IF UNSUITABLE SOILS ARE ENCOUNTERED IN THE AREAS OF THE PROPOSED ROADBED, REMOVE AND REPLACE WITH SUITABLE MATERIAL MEETING THE REQUIREMENTS OF 203.02.R, OR WHEN REQUIRED BY THE ENGINEER, USE GRANULAR MATERIAL MEETING THE SPECIFICATIONS OF 703.16.C TYPE B GRANULAR MATERIAL (304/411/617 WITH 0 TO 20 PERCENT PASSING THE NO. 200 SIEVE). THE LOCATIONS AND DIMENSIONS SHALL BE AS DETERMINED BY THE ENGINEER.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSUITABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204 - EXCAVATION OF SUBGRADE

ITEM 659 - TOPSOIL, AS PER PLAN

PROVIDE PULVERIZED TOPSOIL THAT IS FERTILE, LOOSE, FRIABLE AND LOAMY AT LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. TOPSOIL SHALL BE FURNISHED FROM COMMERCIAL SOURCES (TOPSOIL SUPPLIERS) OR SHALL BE FURNISHED FROM STOCKPILES THAT ARE APPROVED BY THE DEPARTMENT.

IN ADDITION TO THE REQUIREMENTS OF 650, TOPSOIL SHALL CONTAIN BETWEEN 6 PERCENT AND 20 PERCENT ORGANIC MATERIAL. TOPSOIL SHALL NOT CONTAIN MORE THAN 18% MOISTURE AND SHALL BE FREE OF WEEDS AND OTHER DELETERIOUS MATERIAL. TOPSOIL SHALL NOT CONTAIN MORE THAN 5 PERCENT OF MATERIAL NOT PASSING THE 1/2-INCH SIEVE, OR ANY MATERIAL 1-INCH OR LARGER IN ANY DIMENSION. FOR TOPSOIL TO BE CONSIDERED LOAMY, ENSURE THAT THE FRACTION PASSING THE NO. 10 SIEVE DOES NOT CONTAIN MORE THAN 40 PERCENT CLAY. TEST FOR ACIDITY OR ALKALINITY AND ENSURE THAT THE PH IS BETWEEN 6 AND 7. TEST TOPSOIL ACCORDING TO SUPPLEMENT 1016.

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

WHERE CHEMICAL STABILIZATION IS NOT SHOWN ON THE PLANS, CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

- SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
- EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO 204.05.

IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.
- COMPACT THE SUBGRADE ACCORDING TO 204.03.
- APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO 204.06.
- EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
- PROOF ROLL THE STABILIZED AREAS ACCORDING TO 204.06 TO VERIFY STABILITY.
- FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

SEEDING AND MULCHING

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

- 659, SOIL ANALYSIS TEST 2 EACH
- 659, TOPSOIL, AS PER PLAN 200 CU. YD.
- 659, SEEDING AND MULCHING 1,800 SQ. YD.
- 659, REPAIR SEEDING AND MULCHING 180 SQ. YD.
- 659, INTER-SEEDING 180 SQ. YD.
- 659, COMMERCIAL FERTILIZER 330 LBS
- 659, WATER 10 M GAL.

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 WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

UNPERMITTED DRAINAGE DISCHARGE REMOVAL

AT THE LOCATIONS SHOWN IN THE PLANS, REMOVE THE CONDUIT REGARDLESS OF SIZE TO THE RIGHT OF WAY LINE AND PLUG THE CONDUIT WITH CLASS QC 1 CONCRETE. FOR CONDUIT THAT OUTLETS THROUGH THE CURB, RESTORE THE CURB BY FILLING THE HOLE WITH CLASS QC 1 CONCRETE OR REPLACE THE CURB SECTION. FOR CONDUIT THAT OUTLETS TO A STORM SEWER OR DRAINAGE STRUCTURE, LEAVE 6 INCHES OF THE CONDUIT PROTRUDING. PLUG THE PROTRUDING CONDUIT WITH EITHER A MANUFACTURED CAP OR CLASS QC 1 CONCRETE. FOR CONDUIT THAT OUTLETS TO THE DITCH, REMOVE THE EROSION CONTROL PAD. RESTORE ALL AREAS AS REQUIRED. PLUG THE EXISTING CONDUIT REGARDLESS OF SIZE AT THE RIGHT OF WAY LINE WITH CLASS QC 1 CONCRETE. ALL COSTS ARE INCLUDED IN ITEM 202, REMOVAL MISC. CONDUIT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY:

- ITEM 202, REMOVAL MISC.: CONDUIT 20 FT
- ITEM 202, REMOVAL MISC.: INSPECTION WELL 2 EA
- ITEM 203, EMBANKMENT, AS PER PLAN 10 CY

DRAINAGE DISCHARGE CONTINUANCE

FURNISH A DRAINAGE DISCHARGE CONTINUANCE FOR ANY DRAINAGE DISCHARGE DISTURBED BY THE WORK AND NOT SHOWN IN THE PLANS. THE LOCATION, TYPE (CONDUIT OR SWALE), SIZE AND GRADE OF THE DRAINAGE DISCHARGE CONTINUANCE WILL BE AGREED TO BY THE ENGINEER.

FURNISH AN INSPECTION WELL AT THE RIGHT OF WAY LINE IN PER STANDARD CONSTRUCTION DRAWING DM-3.1 FOR EACH DRAINAGE DISCHARGE THAT OUTLETS THROUGH A CURB OPENING OR INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST IS INCLUDED IN ITEM 611, INSPECTION WELL.

FURNISH A WELL GRADED TRANSITION BETWEEN THE DITCH AND THE SWALE WHEN OUTLETING A SWALE TO A DITCH. THE COST FOR THE GRADED TRANSITION IS INCLUDED IN ITEM 203, EMBANKMENT, AS PER PLAN.

FURNISH AN EROSION CONTROL PAD AS SHOWN IN STANDARD CONSTRUCTION DRAWING DM-1.1 WHEN OUTLETING A CONDUIT TO A DITCH. THE COST FOR THE EROSION CONTROL PAD IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED HOLE OR A CURB SECTION WHEN OUTLETING A CONDUIT THROUGH A CURB OPENING. THE COST OF DRILLING OR FURNISHING THE CURB SECTION WITH HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED CORE HOLE WHEN OUTLETING INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST OF THE DRILLED CORE HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE.

DOCUMENTATION

PROVIDE WRITTEN DOCUMENTATION TO THE ENGINEER AND TO THE DISTRICT R/W PERMIT OFFICE. THE DOCUMENTATION INCLUDES THE CONSTRUCTION PROJECT NUMBER, PID, COUNTY, ROUTE, SECTION, LATITUDE AND LONGITUDE OF THE DRAINAGE DISCHARGE AT THE R/W, THE NAME OF PROPERTY OWNER WITH ADDRESS, THE DATE THE DRAINAGE DISCHARGE WAS LOCATED, THE DATE THE DRAINAGE DISCHARGE CONTINUANCE WAS FURNISHED, A DETAILED DESCRIPTION OF THE WORK AND PICTURES OF THE DRAINAGE DISCHARGE CONTINUANCE (IN PDF OR JPEG FORMAT). THE DOCUMENTATION IS INCLUDED IN ITEM 611, CONDUIT, MISC TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE OR ITEM 203, EMBANKMENT, AS PER PLAN

DRAINAGE DISCHARGE CONTINUANCE REMOVAL

THE ENGINEER MAY REQUIRE THE NEWLY INSTALLED DRAINAGE DISCHARGE CONTINUANCE TO BE REMOVED.

REMOVE THE NEWLY INSTALLED CONDUIT AND ANY EXISTING CONDUIT TO THE RIGHT OF WAY LINE. FOR CONDUIT THAT OUTLETS THROUGH THE CURB, RESTORE THE CURB BY FILLING THE HOLE WITH CLASS QC 1 CONCRETE OR REPLACE THE CURB SECTION. FOR CONDUIT THAT OUTLETS TO A STORM SEWER OR DRAINAGE STRUCTURE LEAVE 6 INCHES PROTRUDING OUTSIDE OF THE CONDUIT. PLUG THE PROTRUDING CONDUIT WITH EITHER A MANUFACTURED CAP OR CLASS QC 1 CONCRETE. FOR CONDUIT THAT OUTLETS TO THE DITCH REMOVE THE EROSION CONTROL PAD. RESTORE ALL AREAS AS REQUIRED. PLUG THE EXISTING CONDUIT REGARDLESS OF SIZE AT THE RIGHT OF WAY LINE WITH CLASS QC 1 CONCRETE AND RESTORE ALL AREAS AS REQUIRED. ALL COSTS ARE INCLUDED IN ITEM 202, REMOVAL MISC.: CONDUIT.

DAM THE SWALE THAT OUTLETS TO THE DITCH AT THE R/W AS DIRECTED BY THE ENGINEER. ALL COSTS ARE INCLUDED IN ITEM 203, EMBANKMENT AS PER PLAN REMOVE THE INSPECTION WELL AND RESTORE ALL AREAS AS REQUIRED. THE COST IS INCLUDED IN ITEM 202, REMOVAL MISC.: INSPECTION WELL.

CONDUIT MATERIAL TYPES

THE FOLLOWING CONDUIT MATERIAL TYPES ARE PERMITTED: 707.33, 707.41 NONPERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47 AND 707.51.

PAY ITEMS


EACH OF THE PAY ITEMS LISTED BELOW FOR CONDUIT MISCELLANEOUS TYPES B, C, E AND F FOR DRAINAGE DISCHARGE CONTINUANCE INCLUDE CONDUIT SIZES 2 INCH TO 10 INCH. THERE IS NO COST DIFFERENTIATION FOR SIZE IN THESE PAY ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER IN MAKING THE ABOVE DRAINAGE DISCHARGE CONTINUANCE:

- ITEM 611, INSPECTION WELL 2 EACH
- ITEM 611, CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE 20 FT
- ITEM 202, REMOVAL MISC.: CONDUIT 20 FT
- ITEM 202, REMOVAL MISC.: INSPECTION WELL 2 EACH
- ITEM 203, EMBANKMENT, AS PER PLAN 10 CY

NOTE

NO NON-RUBBER TIRE VEHICLE SHALL BE MOVED ON STATE OR COUNTY ROADS. EXCEPTIONS MAY BE GRANTED BY AN AUTHORIZED STATE OR COUNTY OFFICIAL WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED FOR THE SATISFACTION OF THE STATE OF COUNTY.

COLUMBUS PID 3808-E
DESIGN AGENCY

DESIGNER JLS
REVIEWER MPB 01/26/24
PROJECT ID 114103
SHEET TOTAL P. 04 48

ASPHALT CONCRETE SURFACE COURSE SEALING REQUIREMENTS

THE CONTRACTOR SHALL SEAL ALL GUTTERS AND LOCATIONS MENTIONED BELOW PER THE GOVERNING REGULATIONS WITH A CERTIFIED PG BINDER PER C&M 702.01. THE SEALANT SHALL BE APPLIED AT A UNIFORM RATE AND UNIFORM WIDTH OF 3 INCHES, WITHOUT EXCESS MATERIAL LEFT ON THE SURFACE. THE SEALANT SHALL BE APPLIED AT A TEMPERATURE BETWEEN 300 AND 350 DEGREES FAHRENHEIT IMMEDIATELY UPON COMPLETION OF THE SURFACE COURSE.

IN ADDITION TO GUTTER SEALING THE CONTRACTOR SHALL SEAL ALL CASTINGS WITHIN PAVEMENT INCLUDING MONUMENTS, MANHOLES, VALVES, CATCH BASINS AND CURB INLETS. THE CONTRACTOR SHALL ALSO SEAL ALL BUTT AND FEATHER JOINTS, AND THE PERIMETER OF ALL PAVEMENT REPAIRS OR OTHER PAVEMENT INLAYS WHEN PAVEMENT REPAIRS /INLAYS ARE NOT OVERLAID WITH AN ASPHALT CONCRETE SURFACE COURSE.

ITEM 608 CURB RAMPS

ALL CURB RAMPS PROVIDED BY THE CONTRACTOR SHALL MEET ALL ADA REQUIREMENTS AND THE FOLLOWING: TRUNCATED DOME TILES TINTED RED AS MANUFACTURED BY ENGINEERED PLASTICS, INC., TRUNCATED DOME TACTILE SYSTEMS AS MANUFACTURED BY ADA SOLUTIONS INC., OR APPROVED EQUAL SHALL BE INSTALLED AT ALL CURB RAMPS.

CURB RAMPS SHALL CONFORM TO O.D.O.T. CURB RAMPS STANDARD DRAWINGS.

THICKNESS OF THE CURB RAMP WALK AND CONCRETE BASE BENEATH THE TRUNCATED DOMES SHALL BE A MINIMUM OF 8 INCHES. IN ADDITION, (A 2 INCH COMPACTED SCREENINGS BED THAT MEETS THE REQUIREMENTS OF C&M 703.10 (LIMITED TO CRUSHED STONE) SHALL BE FURNISHED AND PLACED BENEATH ALL CURB RAMP AREAS).

ITEM 608 CONCRETE SIDEWALK

ALL SIDEWALKS SHALL CONFORM TO THE FOLLOWING: PER 608.03(C), IT IS REQUIRED THAT 1/2 INCH THICK EXPANSION JOINT MATERIAL (C&M 703.05) IS INSTALLED BETWEEN THE WALK AND THE BACK OF CURB AND 1/2 INCH THICK FOR ANY OTHER FIXED OBJECT. IN ADDITION TO THE LOCATIONS SPECIFIED UNDER C&M 608.03(C), TRANSVERSE EXPANSION JOINTS SHALL BE CONSTRUCTED AT INTERVALS OF NOT MORE THAN 25 TO 30 FEET UNLESS OTHERWISE DIRECTED. THE EXPANSION JOINT FILLER C&M 705.03 SHALL BE PLACED AT THE TRANSVERSE EXPANSION JOINTS FOR THE FULL DEPTH/WIDTH OF THE CONCRETE WALK AND SHALL BE TRULY NORMAL TO GRADE. THE TOP 1/2 INCH OF THE EXPANSION JOINT PLACED BETWEEN THE WALK AND BACK OF CURB SHALL BE SEALED WITH C&M 705.04 JOINT SEALER.

FINAL SURFACE FINISH OF WALKS SHALL BE IN ACCORDANCE WITH APPLICABLE MUNICIPAL STANDARDS/ORDINANCES. IN ADDITION, A 2 INCH COMPACTED SCREENINGS BED THAT MEETS THE REQUIREMENTS OF C&M 703.10 (LIMITED TO CRUSHED STONE) SHALL BE FURNISHED AND PLACED BENEATH ALL SIDEWALK AREAS.

PAVEMENT RESTORATION FOR DRAINAGE STRUCTURE INSTALLATIONS

THE FOLLOWING QUANTITY IS PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION OF ITEM 611, DRAINAGE STRUCTURES.

ITEM 301, ASPHALT CONCRETE BASE, PG64-22 20 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 6 INCHES (3 LIFTS) 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.

ITEM SPECIAL - PIPE CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER. CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - PIPE CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE NOTED WORK:

SPECIA, PIPE CLEANOUT, 24" AND UNDER 95 FEET

SUBGRADE STABILIZATION

THE CONTRACTOR SHALL PREPARE SUITABLE SUBGRADE IN CONFORMANCE WITH C&M 204.

BENEATH ALL PROPOSED FULL DEPTH PAVEMENT THE CONTRACTOR SHALL COMPLETE THE FOLLOWING SUBGRADE STABILIZATION METHOD PER C&M 204, AND PER THE O.D.O.T. GEOTECHNICAL BULLETIN GB-1:

PERFORM ITEM 204 - EXCAVATION OF SUBGRADE AND REPLACEMENT WITH ITEM 204 - GRANULAR MATERIAL, TYPE B (UNDERCUT) PER PROPOSED SUBGRADE TREATMENT SHEET. IN AREAS WHERE BEDROCK IS ENCOUNTERED OR WILL BE WITHIN 2 FEET OF THE BOTTOM OF PAVEMENT, THE BEDROCK SHALL BE REMOVED TO THE 2-FOOT LIMIT AND THE CAVITY BACKFILLED WITH GRANULAR MATERIAL TYPE B PER C&M 204. IN AREAS WHERE UNSUITABLE SUBGRADE, AS DEFINED BY OGE GEOTECHNICAL BULLETIN GB-1, ARE ENCOUNTERED WITHIN 3- FEET OF THE BOTTOM OF PAVEMENT THE UNSUITABLE MATERIAL SHALL BE REMOVED TO THE 3-FOOT LIMIT AND THE CAVITY BACKFILLED WITH GRANULAR MATERIAL TYPE B PER C&M 204. ALL SUBGRADE STABILIZATION AREAS SHALL EXTEND 18 INCHES BEYOND THE BACK OF PROPOSED CURBS. THE DBT SHALL PERFORM SUBGRADE COMPACTION AND PROOF ROLLING PER C&M 204 ON ALL STABILIZATIONS. THE DBT SHALL ACCOUNT FOR UNDERDRAIN INSTALLATION WITHIN AND ADJACENT TO THE STABILIZATION WORK AND STAGE THE WORK ACCORDINGLY.

GEOGRID WILL BE USED AT THE DIRECTION OF THE DISTRICT AND SHALL BE PLACED FROM BACK OF CURB TO BACK OF CURB.

THE CONTRACTOR SHALL LOCATE AND VERIFY THE DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AND SEWERS PRESENT IN AREAS OF SUBGRADE STABILIZATION TO ENSURE NO IMPACTS OR DAMAGE DURING CONSTRUCTION. STABILIZATION DEPTHS MAY BE ADJUSTED OR NON-PERFORMED WITH APPROVAL OF THE COUNTY TO ACCOMMODATE UTILITIES. SPECIFIC ATTENTION IS DIRECTED TO ALL EXISTING WATERLINES. AN 18-INCH DEPTH OF UNDISTURBED EARTH SHALL BE KEPT ABOVE ALL WATER LINES DURING SUBGRADE CONSTRUCTION. STATIC ROLLERS SHALL BE USED FOR SUBGRADE AND SUBBASE COMPACTION IN AREAS OF EXISTING WATER LINES. VIBRATORY EQUIPMENT OVER WATER LINES IS STRICTLY PROHIBITED.

CROSSING 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, 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, NOTIFY THE ENGINEER 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, NOTIFY THE ENGINEER 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 IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN EXISTING CONDUITS AND FILLING THE INSIDE AREA TO SEAL THE CONDUITS OFF WITH ITEM 613, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

BULKHEADS SHALL BE LOCATED AT THE LIMITS OF THE AREA TO BE FILLED AS INDICATED ON THE PLANS. THE BULKHEADS SHALL CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

THE FILL MATERIAL SHALL BE PUMPED INTO PLACE, OR PLACED BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT, AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH, SHALL BE FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR SHALL BE THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

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

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE. UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 611, PRECAST REINFORCED CONCRETE OUTLET 1 EACH
ITEM 605, 4" UNCLASSIFIED PIPE UNDERDRAINS 105 FT

ITEM SPECIAL- MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181. ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL. POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS, TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, SINGLE. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE NOTED WORK:

SPECIAL, MAILBOX SUPPORT SYSTEM, SINGLE 11 EACH

CITY OF COLUMBUS WATER NOTES

ALL WATER MAIN MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER. ALL CITY OF COLUMBUS, DIVISION OF WATER STANDARD DRAWINGS SHALL APPLY TO THE PROJECT, UNLESS OTHERWISE NOTED.

CRPD TREE PRESERVATION AND PROTECTION NOTES

ALL PUBLIC TREES AND THE GROUND BELOW THEIR RESPECTIVE DRIP LINES, WHETHER SHOWN OR NOT SHOWN ON THE PLANS, ARE TO BE PRESERVED UNLESS APPROVAL TO REMOVE OR PRUNE IS GIVEN IN WRITING BY COLUMBUS RECREATION & PARKS (CRPD)/CITY FORESTER OR IF THE PUBLIC TREE REMOVAL HAS BEEN DESIGNATED ON THE APPROVED FINAL SITE COMPLIANCE PLAN. TREES APPROVED FOR REMOVAL BY CRPD/CITY FORESTER SHALL BE PAID FOR UNDER CMSC ITEM 201, CLEARING AND GRUBBING, UNLESS OTHERWISE PROVIDED FOR BY UNIT PRICE BID UNDER ITEM 201. THE CONTRACTOR SHALL PROTECT TREES NEAR OR ADJACENT TO THE WORK AREA TO AVOID DAMAGE TO ALL TREES THAT ARE TO REMAIN. ALL TREES REMOVED SHALL INCLUDE STUMP REMOVAL TO EIGHTEEN (18) INCHES BELOW GRADE. ALL CLEARING AND GRUBBING PERFORMED ON CRPD PROPERTY, RIGHT-OF-WAY, OR ANY CITY OF COLUMBUS PROPERTY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. HEAVY EQUIPMENT WILL NOT BE ALLOWED TO COMPACT THE SOIL OVER THE ROOT ZONE OF EXISTING PUBLIC TREES. RESTRICTED EQUIPMENT ACCESS ROUTES SHALL BE COORDINATED WITH CRPD INSPECTOR, KEITH MAY, AT KAMAY@COLUMBUS.GOV BEFORE WORK IS BEGINS. TEMPORARY PAVING MATERIALS, SUCH AS PLYWOOD, LUMBER OR RUBBER MATTING, SPREAD OVER THE ROOT ZONE OF PUBLIC TREES MAY BE REQUIRED TO PREVENT COMPACTION. IF A PUBLIC TREE NEEDS TO BE REMOVED, THE CONTRACTOR SHALL PROVIDE A TREE MITIGATION PLAN TO THE CITY FORESTRY SECTION [(614) 724-1276] AND REFER TO THE CRPD TREE MITIGATION PLAN GUIDANCE, ANSI A300 AND/OR CITY OF COLUMBUS EXECUTIVE ORDER 2015-01 FOR TREE REPLACEMENT STANDARDS.

A TREE PROTECTION PLAN WITH A DRAWING OF ANY WORK LOCATED WITHIN THE DRIP LINE OF A PUBLIC TREE SHALL BE INCLUDED IN THE APPROVED FINAL SITE COMPLIANCE PLAN (FSCP). REFER TO CRPD STANDARD DRAWING FOR TREE PROTECTION. CONSTRUCTION MATERIALS, EXCAVATION DEBRIS, FUEL, EQUIPMENT, OR VEHICLES ARE NOT TO BE STOCKPILED, STORED, DUMPED, OR PARKED WITHIN THE DRIP LINE OF PUBLIC TREES. ALL TREES MUST BE PROTECTED AGAINST INJURY OR DAMAGE TO BRANCHES, TRUNKS, OR ROOTS FROM CONSTRUCTION AND EXCAVATION, AS DESCRIBED IN THE "BEST MANAGEMENT PRACTICES MANAGING TREES DURING CONSTRUCTION" A COMPANION PUBLICATION TO ANSI A300 PART 5. IF THERE IS A QUESTION WHETHER A TREE OR NOT NEEDS TO BE PROTECTED, THE CONTRACTOR MUST CONTACT THE CITY FORESTRY SECTION AT (614) 724-1276. FAILURE TO CONTACT THE CITY FORESTRY REPRESENTATIVE IN ADVANCE OF CONSTRUCTION WILL RESULT IN THE CONTRACTOR REIMBURSING CITY FORESTRY FOR THE COST OF ANY AND ALL DAMAGE AS DETERMINED BY THE CURRENT ANSI A300/CITY OF COLUMBUS EXECUTIVE ORDER 2015-01 FOR TREE PROTECTION AND REPLACEMENT.


EROSION AND SEDIMENT CONTROL MEASURES SPECIFIC TO THIS SITE ARE TO BE PROVIDED BY ODOT SS-832. THE PROPOSED LAND DISTURBING ACTIVITIES WITHIN THE CITY OF COLUMBUS MUST COMPLY WITH ALL FO THE PROVISIONS OF THE DIVISION OF SWEERAGE AND DTAINAGE EROSION AND SEDIMENT CONTROL REGULATION. ALL LAND DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SIRE INVESTIGATION BY THE CITY OF COLUMBUS TO DETERMINE COMPLIANCE WITH CITY STANDARDS AND REGULATIONS. FAILURE TO COMPLY WITH THESE REGULATIONS MAY SUBJECT THE SITE TO ENFORCEMENT ACTION BY THE CITY. QUESTIONS REGARDINF EROSION AND SEDIMENT CONTROL MAY BE REFERRED TO THE STORMWATER MANAGEMENT OFFICE AT 645-6311.

ON SITE CONTACT:
PHONE:
FAX:
E-MAIL:
OEPA NPDES GENERAL PERMIT NOI NUMBER:
SITE TRIBUTART TO: (NEAREST NAMED WATERCOURSE)

GENERAL NOTES

FRA-62-08.91

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COLUMBUS PID 3808-E
DESIGN AGENCY 
DESIGNER JLS
REVIEWER MPB 01/26/24
PROJECT ID 114103
SHEET TOTAL P. 05 48

CITY OF COLUMBUS WATER NOTES

The City of Columbus, Construction and Material Specifications, 2018 edition and all revisions, including all supplements thereto, shall govern all construction items that are a part of this plan, unless otherwise noted.

All water main materials and installations shall be in accordance with the current rules and regulations of the City of Columbus, Division of Water. All City of Columbus, Division of Water Standard Drawings shall apply to the project, unless otherwise noted.

For any emergencies involving the water distribution system, please contact the Division of Water Distribution Maintenance Office at 614-645-7788.

All brass fittings associated with water work, including repairs to the existing system, shall conform to the revised allowable lead extraction limit per the updated NSF/ANSI 61 Standard. The Division of Water's Approved Materials List has been updated to reflect this requirement.

It shall be unlawful for any person to perform any work on City of Columbus water main systems without first securing license to engage in such work, as indicated in Columbus City Code Section 1103.02 and 1103.06. This work includes any attachments, additions to or alterations in any city service pipe or appurtenances (including water service lines and taps). This requirement may be met by utilization of a subcontractor who holds a City of Columbus Water Contractor License or a Combined Water/Sewer Contractor License to perform this work. Utilization of a subcontractor must meet the licensing requirements of City of Columbus Building Code, in particular Section 4114.119 and 4114.529.

No person shall begin construction or installation of a public water main until plans have been approved by the State of Ohio Environmental Protection Agency (OEPA).

The Contractor shall obtain the proper hydrant permit(s), and pay any applicable fees, for any approved hydrant usage deemed necessary for work under this improvement. Permits may be obtained through the Division of Water Permit Office (645-7330). The contractor shall adhere to all rules & regulations governing said permit and must have the original permit on site anytime in which the hydrant is in use. Permits may be obtained by accessing <http://portal.columbus.gov/permits/>. Cost to be included in the various bid items.

These design plans have assumed ductile iron as the baseline pipe material for design. All fittings, deflections, and other design elements are based off of the ductile iron standards. If PVC piping is to be utilized in the permitted locations for construction, a formal plan revision shall be submitted for review and approval regarding any changes to the design plans.

All water mains shall be cleaned and flushed, and any water main 12-inch and larger must be properly pigged, in accordance with section 801.15 of the City of Columbus, Construction and Material Specifications.

All water mains shall be pressure tested in accordance with section 801.16 of the City of Columbus, Construction and Material Specifications. The City may not approve any test lasting less than two hours, regardless of the amount of leakage.

All water mains shall be disinfected in accordance with section 801.17 of the City of Columbus, Construction and Material Specifications. Special attention is directed to applicable sections of A.W.W.A. C-651. When the water mains are ready for disinfection, the Inspector shall submit a written request for chlorination of the mains that need disinfected, three (3) sets of "as-built" plans (full size sheets only), the as-built survey coordinates, water service reports and a pressure test to the City of Columbus, Division of Water. The contractor shall be responsible for all costs associated with the disinfection of all water mains constructed under this plan.

The Contractor shall provide chlorination taps and blowoffs as per the requirements of section 801.17 of the City of Columbus, Construction and Material Specifications. In addition to the blowoff locations noted in 801.17, the contractor shall also install blowoffs at every 1,100 linear feet of the water main installed for sampling.

Any section of water main that is longer than 20 feet in length shall be chlorinated. Hand swabbing methods will only be permitted for sections less than or equal to 20 feet in length. Use unscented household bleach for hand swabbing of pipe and fittings. Please note that cut-in-tees, sleeves, and any other required fittings or piping shall be taken into account and are included in the total length of the section (cut to cut).

Only one connection to an existing water main is permitted before disinfection of a new water main has been completed. All other connections must be made after the main has been disinfected.

All water meters associated with this project shall be installed inside the proposed structure unless a meter pit is approved by the Administrator of the Division of Water. All meter pits must be approved prior to the issuing of any service permits and must conform to Standard Drawing L-7103 for 5/8" through 1" meters, or L-6317 A, B, C, D, & E for 1-1/2" or larger meters.

No water service connection permits shall be issued or connections made to any water taps until water mains have been disinfected by the City of Columbus, Division of Water. When a 3-inch or larger tap is to occur on a 20-inch or larger water main, the Contractor shall notify the Division of Water Operations Control Center at (614)-645-7168 twenty-four (24) hours in advance of performing the tap.

Where long water service line transfers are specified, i.e., water service lines are on the opposite side of the street from the proposed water main, the taps shall be installed by trenchless methods unless otherwise approved by the Engineer. When water taps are installed by trenchless methods and cross an existing storm and/or sanitary sewer, the contractor shall verify the condition of the sewer(s) by video inspection methods following the tap installations. Costs Associated with the video inspection work shall be included in the costs of the bid item for water service line transfer or water tap installation. For water service line transfers specified as short, the taps may be installed by open-cut methods. All work required to install the water taps and perform the water service line transfers shall remain within the right-of-way. The contractor shall flush each water tap prior to making the service line transfer.

Water service boxes shall be placed 1' from the edge of the proposed or existing sidewalk between the sidewalk and the curb, or 2 feet inside the right-of-way or easement line when no sidewalk is present or proposed. Refer to Standard Drawing L-9901 for additional information.

When performing water service line transfers, the Contractor shall flush the water tap prior to connecting to the existing service line

All fire hydrants to be installed in the City of Columbus shall be painted with the color "Safety Orange". The fire hydrants shall be provided with two coats in a gloss enamel of the "Safety Orange" color for the entire hydrant. The tops of the fire hydrants are no longer required to be painted black. After installation of fire hydrants, the Contractor is responsible to apply touch up paint to any damage to the factory applied hydrant paint. Hydrants will not be accepted until any paint damage from shipping or installation has been repaired. Use hydrant touch up paint in accordance with the approved materials list.

All fire hydrants, whether new or relocated, shall be inspected and approved by the Division of Fire prior to being put into service. The contractor shall contact the Division of Fire at 645-7642 ext. 75658 to schedule the inspection of the new or relocated fire hydrants. The City will provide the contractor "OUT OF SERVICE" rings that shall be placed on all new or relocated fire hydrants to clearly identify them as inactive. After written notification of acceptance has been received and final water main connections have occurred, the contractor shall remove the "OUT OF SERVICE" rings from the fire hydrants. All "OUT OF SERVICE" rings shall be returned to the City. All coordination and work required to test and accept the fire hydrants shall be included in the price bid item 809.

Maintain eighteen (18) inches vertical and ten (10) feet horizontal separation between any sanitary or storm sewer piping and all proposed water mains.

When crossing the existing water main, and Low Strength Mortar (Item 613) is to be used as backfill, the Contractor shall provide Size No. 57 Crushed Carbonate Stone (CCS) 1 foot below to 1 foot above the existing water main.

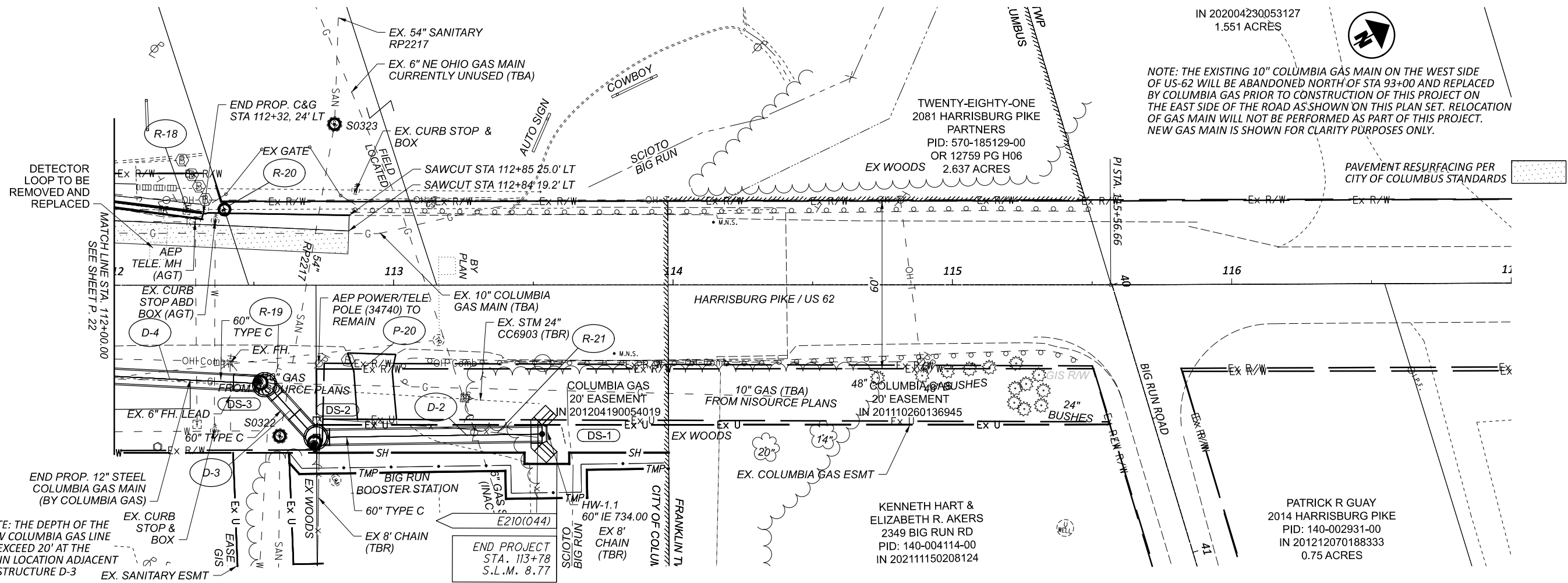
If during excavation, the polyethylene encasement on the existing water main becomes damaged, the contractor shall repair the polyethylene encasement per manufacturer's specifications and DOW Standard Drawings L-1003 and L-1004, at their own expense. Ensure that the entire exposed area is covered with new polyethylene encasement and securely taped, prior to backfilling.

Contractor shall adhere to the requirements of the Ohio Administrative Code Chapter 3745-83-02 Water Disruption of Service Rule. Excavate pits sufficiently below the area to be connected to in order to maintain water levels below the water main. If water from the pit enters the existing main, contact Division of Water immediately. Ensure that sufficiently sized pumps are utilized to remove water from the trench and backup pumps are kept on site for redundancy.

GENERAL NOTES

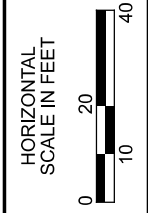


DESIGN AGENCY
DESIGNER
JLS
REVIEWER
MPB 01/26/24
PROJECT ID
114103
SHEET
P. 06
TOTAL
48

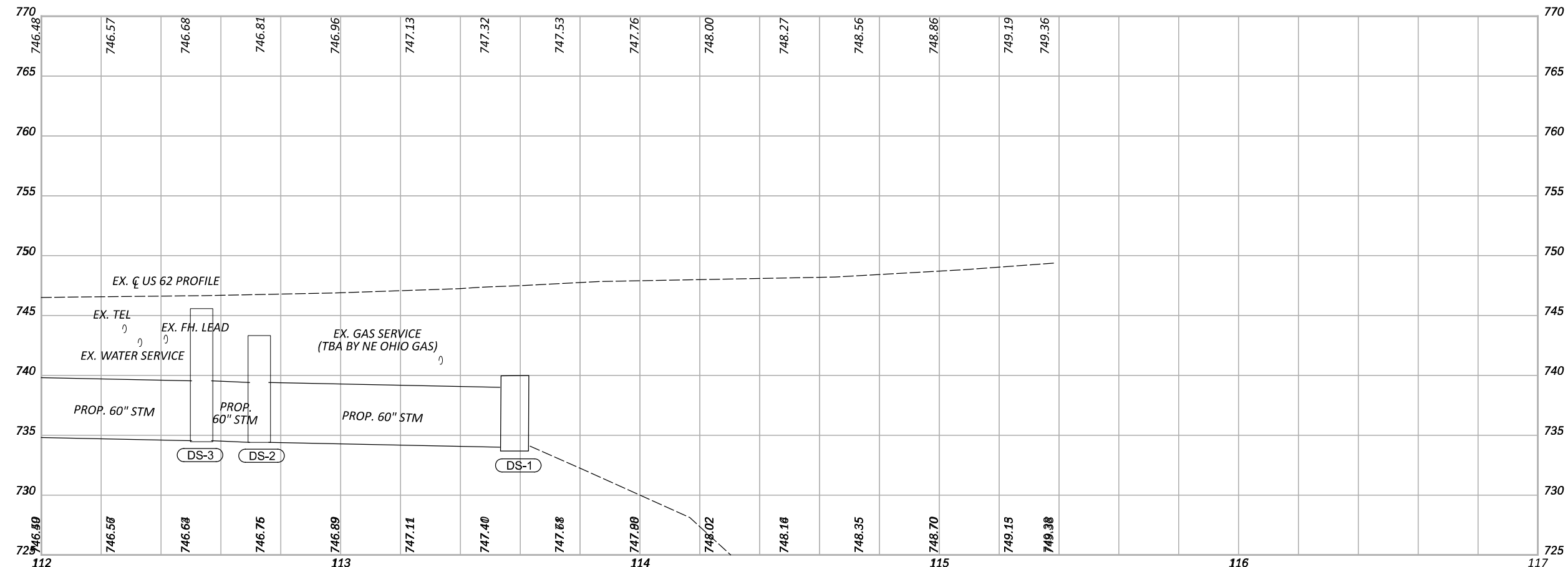


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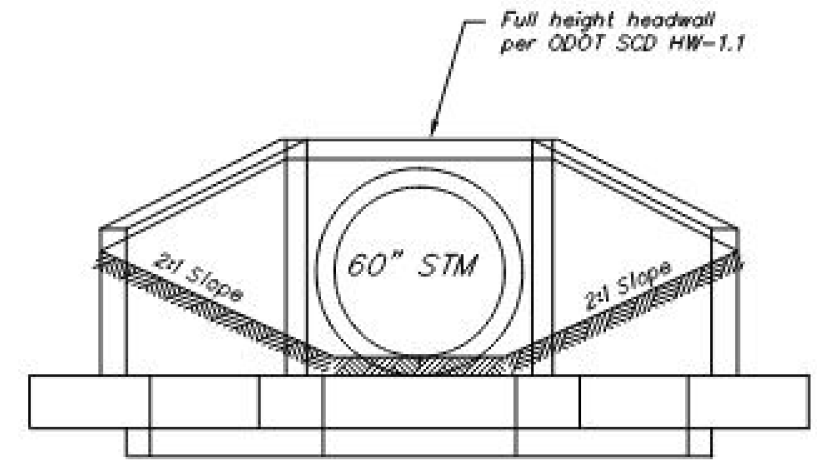
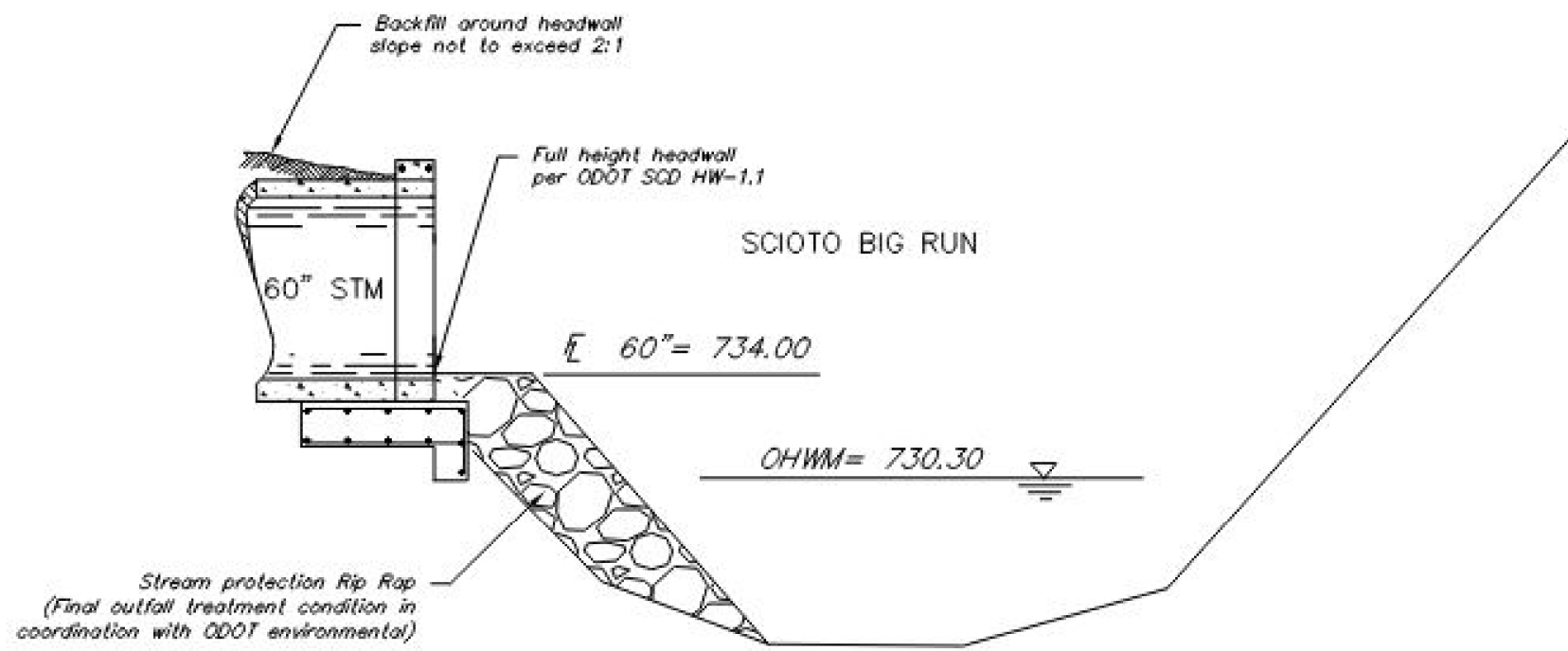
NOTE: THE EXISTING 10" COLUMBIA GAS MAIN ON THE WEST SIDE OF US-62 WILL BE ABANDONED NORTH OF STA 93+00 AND REPLACED BY COLUMBIA GAS PRIOR TO CONSTRUCTION OF THIS PROJECT ON THE EAST SIDE OF THE ROAD AS SHOWN ON THIS PLAN SET. RELOCATION OF GAS MAIN WILL NOT BE PERFORMED AS PART OF THIS PROJECT. NEW GAS MAIN IS SHOWN FOR CLARITY PURPOSES ONLY.



US 62 PLAN AND PROFILE
 STA 112+00 TO END



COLUMBUS PID	3808-E
DESIGN AGENCY	
DESIGNER	JLS
REVIEWER	MPB 01/26/24
PROJECT ID	114103
SHEET	P. 23
TOTAL	48



NOTES

APPLICATION: Provide Full Height Headwalls for skewed and non-skewed culverts having a diameter or rise of 42" to 84" inclusive. Use Type "A" when the skew angle (θ) is ten degrees or less and Type "B" when the skew angle is over ten degrees.

DESIGN DATA: The following design data is assumed:

- Internal Angle of Friction of Backfill Soil, $\phi_w = 30^\circ$
- Total Unit Weight of Backfill Soil = 120 pcf
- Internal Angle of Friction (Drained), Foundation Soil, $\phi_r = 28^\circ$
- Undrained Shear Strength (Cohesive), Foundation Soil, $S_u = 1500$ psf
- Unit Weight of Concrete = 150 pcf
- Slope of Backfill = 2:1

Concrete Class OCl - Compressive Strength = 4000 psi

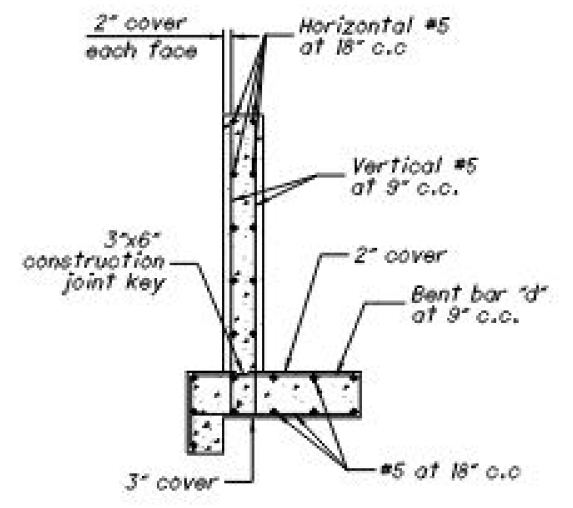
Reinforcing Steel - Grade 60 Minimum Yield Strength
 60,000 psi (All Reinforcing Shall be Epoxy Coated.)

Based on the assumed design data, the headwalls for the standard design achieve factored bearing resistances that are greater than their respective factored bearing pressures. If a backfill material with a higher internal angle of friction or a lighter total unit weight is used; or if a foundation soil with a higher drained internal angle of friction or a higher undrained shear strength is encountered; then the stability of the wall is satisfactory.

DETAILS AND QUANTITIES: Are shown for circular sections only. When used with reinforced elliptical concrete pipe or corrugated metal pipe arches, adjust dimensions and quantities to conform to those listed for the nearest size circular pipe. Apply the dimensions established by vertical diameter to span. Round all calculated dimensions established by horizontal diameter to the nearest 1". Chamfer all exposed corners $\frac{1}{4}$ ".

HEADWALL LOCATION: Determine by intersection of the embankment slope at the back of the headwall at point "K". Provide 2:1 slopes adjacent to the headwall.

PAYMENT: Item 602 Concrete Masonry includes reinforcing.





**US Army Corps of Engineers
Huntington District**

Permit Number: 2024-00685-SCR

Name of Permittee: Ohio Department of Transportation

Date of Issuance: May 1, 2026

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

U.S. Army Corps of Engineers - Huntington District
502 Eighth Street
Huntington, West Virginia 25701-2070

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date