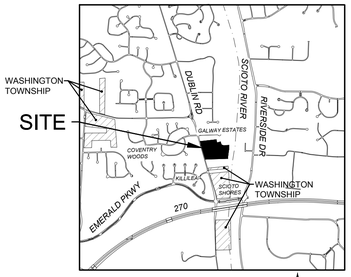
SHEET INDEX

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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
FOR

LIU COURT

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO



VICINITY MAP
NTS

SITE DATA

ZONING:

PROPERTY OWNER:	GEORGE CRIMSON LLC
PARCEL ID:	273-001786-00
SITE ACREAGE:	12.820 (REC) 12.793 (MEASURED)
SITE ZONING	R-1, RESTRICTED SUBURBAN RESIDENTIAL DISTRICT
FEMA FLOODPLAIN:	39049C0151K (6/17/2008) ZONE X

SITE LAYOUT DATA:

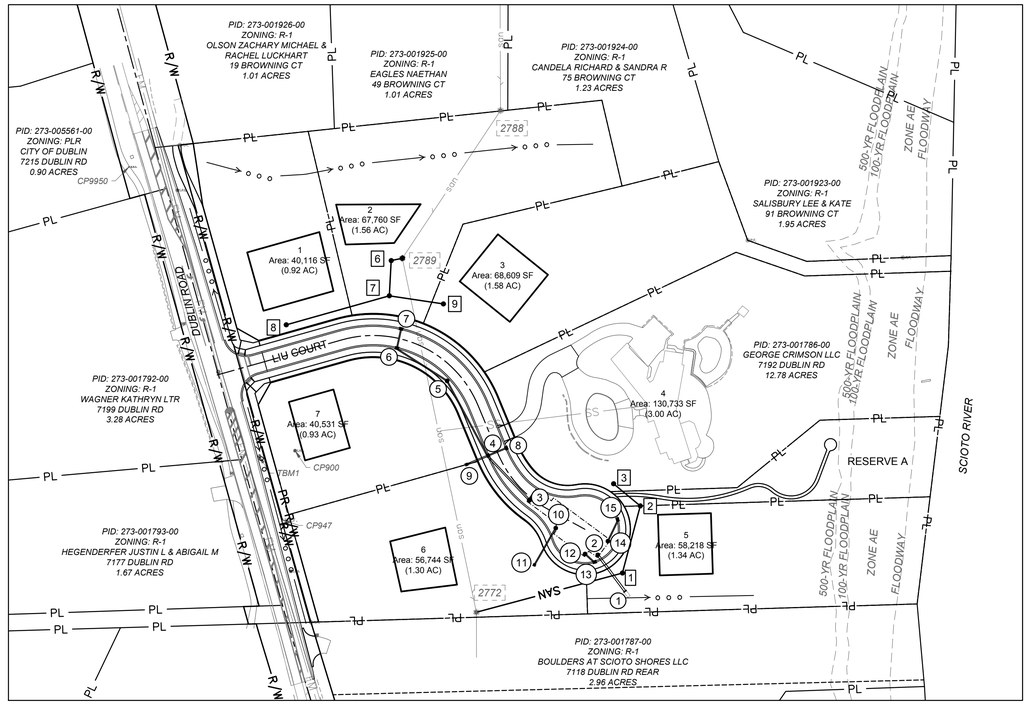
TOTAL LOTS:	7 LOTS
GROSS DENSITY (NET DENSITY):	0.55 LOTS/ACRE
MINIMUM DRIVE AISLE WIDTH:	24'
MINIMUM LOT WIDTH:	150' AT THE FRONT LINE OF THE DWELLING
MINIMUM FRONT YARD SETBACK:	30'
MINIMUM REAR YARD SETBACK:	50'
TOTAL SIDE YARD SETBACK:	25', 8' MINIMUM ON ONE SIDE
REAR YARD MINIMUM:	20% OF THE LOT DEPTH

BUILDING DATA:

BUILDING HEIGHT:	35' MAXIMUM HEIGHT

LANDSCAPE DATA:

EXISTING IMPERVIOUS AREA:	1.04 AC
PROPOSED IMPERVIOUS AREA:	2.01 AC
GREENSPACE:	10.10 AC (79%)



INDEX MAP
HORZ 1"=60' 0 100 200

BASIS OF BEARINGS

BEARINGS SHOWN HEREON ARE BASED ON GRID NORTH, REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION

HORIZONTAL CONTROL

COORDINATES ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION. A PROJECT ADJUSTMENT FACTOR OF 1.0000184927 WAS APPLIED ABOUT C.P. 900 TO OBTAIN GROUND COORDINATES.

C.P.	DESCRIPTION	NORTHING (GROUND)	EASTING (GROUND)	ELEVATION
CP 900	5/8" IRON PIN SET W/ "ASI CONTROL POINT" CAP	770657.227	1796156.545	852.24
CP 947	MAG NAIL FOUND	770565.830	1796139.799	851.58
CP 949	MAG NAIL SET	770019.566	1796217.909	842.37
CP 9950	MAG NAIL SET	771031.845	1795937.341	848.03

VERTICAL CONTROL

ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS DERIVED FROM GNSS OBSERVATIONS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) AND GEOID 18, AND AN NGS OPUS SOLUTION FOR CONTROL POINT 900. THE ELEVATIONS FOR ALL OTHER CONTROL POINTS AND BENCHMARKS LISTED HEREON WERE ESTABLISHED UTILIZING A DIFFERENTIAL LEVEL CIRCUIT ORIGINATING FROM CONTROL POINT 900.

B.M.	DESCRIPTION	NORTHING (GROUND)	EASTING (GROUND)	ELEVATION
CP 900	5/8" IRON PIN SET W/ "ASI CONTROL POINT" CAP	770657.227	1796156.545	852.24
TBM 1	MAG NAIL FOUND IN POWER POLE +/- 72' NORTH OF THE DRIVE FOR 7192 DUBLIN ROAD, +/- 48' WEST OF CP 900, +/- 27' EAST OF THE CENTER LINE OF DUBLIN ROAD	N/A	N/A	853.64

UTILITY CONTACTS

AMERITECH
408 CRITES ROAD
CIRCLEVILLE, OH 43113
PHONE: (740) 477-3658

AMERICAN ELECTRIC POWER
850 TECH CENTER DRIVE
GAHANA, OH 43230
PHONE: (614) 883-6831

CITY OF DUBLIN
DIVISION OF ENGINEERING
5800 SHIER-RINGS ROAD
DUBLIN, OH 43016
PHONE: (614) 410-4600

CITY OF COLUMBUS
DIVISION OF WATER
910 DUBLIN ROAD
COLUMBUS, OH 43215
PHONE: (614) 645-7788

COLUMBIA GAS OF OHIO
200 S CIVIC CENTER DR
COLUMBUS, OH 43215
PHONE: (614) 460-6000

TIME WARNER CABLE
1980 ALUM CREEK DR
COLUMBUS, OH 43207
PHONE: (614) 918-8439

OWNER/ DEVELOPER

MR. JASON LIU
10279 WELLINGTON BLVD.
POWELL, OHIO 43065
CONTACT: JASON LIU
PHONE: (614) 313-1268
EMAIL: JASONLIU1218@YAHOO.COM

ENGINEER

AMERICAN STRUCTUREPOINT
2550 CORPORATE EXCHANGE DRIVE, SUITE 300
COLUMBUS, OHIO 43231
CONTACT: BENJAMIN SCHILLING
PHONE: (614) 901-2235
EMAIL: BSCHILLING@STRUCTUREPOINT.COM

STANDARD CONSTRUCTION DRAWINGS

THE STANDARD CONSTRUCTION DRAWINGS LISTED ON THESE PLANS SHALL BE CONSIDERED A PART THEREOF.

CITY OF DUBLIN (2020 EDITION)

MD-02 RD-02 ST-03
MD-03 RD-03 ST-04
MD-05 RD-05 ST-05
PD-02 RD-08 ST-06
PD-03 RD-10 WA-01
PD-04 RD-15
PD-06 SA-04
RD-01 ST-01

ODOT

BP-3.1

STATE OF OHIO
MATTHEW J. LILIE
E-86125
REGISTERED PROFESSIONAL ENGINEER

07/17/2025
REGISTERED ENGINEER E-86125 DATE

APPROVED:

CITY OF DUBLIN:
SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

DIRECTOR OF ENGINEERING/CITY ENGINEER DATE
CITY OF DUBLIN, OHIO
PAUL A. HAMMERSMITH, P.E.

CITY OF COLUMBUS:

APPROVAL ON THE PART OF THE CITY OF COLUMBUS IS GIVEN PURSUANT TO THE PROVISIONS OF THE WATER SERVICE AGREEMENT BETWEEN THE CITY OF DUBLIN AND THE CITY OF COLUMBUS, OHIO, ON APRIL 13, 1993 AND ALL SUBSEQUENT AMENDMENTS THEREOF.

ADMINISTRATOR, DIVISION OF WATER DATE
CITY OF COLUMBUS, OHIO

DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES DATE
CITY OF COLUMBUS, OHIO

Ohio Utilities Protection Service
Call 811 before you dig

24-005-RES

AMERICAN STRUCTUREPOINT INC.
2550 Corporate Exchange Dr. Ste 300 | Columbus, Ohio 43231
TEL 614.901.2235 | FAX 614.901.2236
www.structurepoint.com

PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

TITLE SHEET

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	7/17/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

1/25

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 2:31 PM EDITED BY: MJLIE DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690 TS&GN.DWG

GENERAL NOTES

1. CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.

2. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.

3. THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.

4. THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.

6. FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS_BUILT" ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE CONSTRUCTIONS DRAWINGS.

7. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT_OF_WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.

8. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.

9. NON_RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.

10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS_SECTIONS THAT EXISTED BEFORE CONSTRUCTION.

11. TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

12. DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.

13. ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

14. ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

15. ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.

16. BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE II ACCORDING TO ITEM 613. ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.

17. THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.

    SEND THE INFORMATION TO THE FOLLOWING ADDRESS:

    CONSTRUCTION INSPECTION DIVISION
    CITY OF COLUMBUS
    1800 EAST 17TH AVENUE
    COLUMBUS, OHIO 43219

    SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:

    DIVISION OF ENGINEERING
    CITY OF DUBLIN
    6555 SHIER RINGS ROAD
    DUBLIN, OHIO 43016

18. ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.

19. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6 - INCHES OR GREATER AT DBH (DIAMETER BREAST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.

20. CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PNEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED, CONTROLLED DENSITY BACKFILL (TYPE II) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 613 OF THE STANDARD SPECIFICATIONS.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.

22. PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 1441 DR. A AND APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS. THE REPLACEMENT OF DRIVEWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAVEMENT, ETC. SHALL BE PROVIDED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.

23. TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.

24. ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.

25. ALL INLETS SHALL BE CHANNELIZED.

26. PARK AREAS SHALL BE FINE_GRADED AND SEEDED WITH THE FOLLOWING MIXTURE:

    IMPROVED KENTUCKY BLUEGRASS: 40% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)
    IMPROVED PERENNIAL RYE: 60% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)
    GERMINATION RATE: 85%
    APPLICATION RATE: 7 LBS PER 1000 SQ FT OR AS DIRECTED BY THE DIVISION OF PARKS AND RECREATION, CITY OF DUBLIN, OHIO.

27. TRAFFIC CONTROL AND OTHER REGULATORY SIGNS SHALL BE TYPE S WITH A SQUARE POST ANCHOR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT TC-41.20 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS.

28. STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN IN COLOR AND CONFORM WITH THE TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-41.20.

UTILITIES

1. THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:

    AEP OHIO - ELECTRIC
    BREEZELINE - TELECOM
    COLUMBIA GAS OF OH-COLUMBUS - GAS
    DUBLIN SEWER - SANITARY SEWER
    DUBLIN WATER - WATER MAIN
    DUBLIN DIVISION OF ENGINEERING - STORMWATER
    AT&T - TELECOM
    CHARTER COMM - TELECOM

2. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800_362_2764), PRODUCER'S UNDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614_587_0486), AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.

3. THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.

4. LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

5. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.

6. PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS PRIOR TO BEGINNING WORK.

TRAFFIC CONTROL

1. TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION.

2. ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM UNLESS AUTHORIZED DIFFERENTLY BY THE CITY ENGINEER. AT ALL OTHER HOURS THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE_LANE TWO_WAY TRAFFIC. UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE OMUTCD, AND SHALL BE PRESENT WHENEVER ONE_LANE, TWO_WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.

3. IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER SHALL ASSIGN UNIFORMED, OFF_DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.

4. STEADY_BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.

5. ACCESS FROM PUBLIC ROADWAYS TO ALL ADJOINING PROPERTIES FOR EXISTING RESIDENTS OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES. THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA. THE NOI MUST BE SUBMITTED TO OEPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITLE COVERAGE UNDER THE OHIO EPA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT LOCATION MAP MUST BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS. THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL NPDES STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE CONSIDERED THE PERMITTEE.
2. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.

3. ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. HAY OR STRAW BALES ARE NOT PERMITTED.

4. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.

5. DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.

BLASTING (*IF PERMITTED*)

1. THE CONTRACTOR MUST OBTAIN A BLASTING PERMIT FROM WASHINGTON TOWNSHIP FIRE DEPARTMENT PRIOR TO BLASTING FOR ROCK EXCAVATION. THE CONTRACTOR SHALL SUBMIT BLASTING REPORTS UPON COMPLETION OF BLASTING TO THE CITY ENGINEER, THE OWNER, AND THE OWNER'S ENGINEER. TOP OF ROCK ELEVATIONS SHALL BE SHOWN ON "AS_BUILT" CONSTRUCTION DRAWINGS.

WATER LINE

1. ALL WATER LINE MATERIALS SHALL BE PROVIDED AND INSTALLED ACCORDING TO CURRENT SPECIFICATIONS OF THE CITY OF COLUMBUS DIVISION OF WATER.

2. ALL PUBLIC WATER PIPE WITH A DIAMETER 3 INCHES TO 8 INCHES SHALL BE DUCTILE IRON, CLASS 53. PUBLIC WATER PIPE 12 INCHES IN DIAMETER OR LARGER SHALL BE DUCTILE IRON, CLASS 54. PUBLIC WATER PIPE 20 INCHES IN DIAMETER OR LARGER MAY BE PRESTRESSED CONCRETE PIPE. PRIVATE WATER PIPE SHALL MEET THE APPROVAL OF THE CITY OF COLUMBUS DIVISION OF WATER PRIOR TO APPROVAL OF THE CONSTRUCTION DRAWINGS.

3. ONLY FIRE HYDRANTS CONFORMING TO CITY OF COLUMBUS STANDARDS WILL BE APPROVED FOR USE.

4. PUBLIC WATER LINES SHALL BE DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER. REQUESTS FOR WATER LINE CHLORINATION SHALL BE MADE THROUGH THE CITY OF DUBLIN DIVISION OF ENGINEERING. THE COST FOR CHLORINATION SHALL BE PAID FOR BY THE CONTRACTOR.

5. ALL WATER LINES SHALL BE DISINFECTED ACCORDING TO ITEM 801.13 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF AMERICAN WATER WORKS ASSOCIATION SPECIFICATION C_651, PARTICULARLY FOR FLUSHING (SECTION 5) AND FOR CHLORINATING VALVES AND FIRE HYDRANTS (SECTION 7). PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHEN WATER LINES ARE READY FOR DISINFECTION, THE CITY OF DUBLIN SHALL SUBMIT TWO (2) SETS OF "AS-BUILT" PLANS, AND A LETTER STATING THAT THE WATER LINES HAVE BEEN PRESSURE TESTED AND NEED TO BE DISINFECTED, TO THE CITY OF COLUMBUS, DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION OF ALL WATER LINES CONSTRUCTION PER THIS PLAN. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS.

6. THE CONTRACTOR SHALL PAINT ALL FIRE HYDRANTS ACCORDING TO CITY OF DUBLIN STANDARDS. THE COST OF PAINTING FIRE HYDRANTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR FIRE HYDRANTS.

7. NO WATER TAPS OR SERVICE CONNECTIONS (E.G., TO CURB STOPS OR METER PITS) MAY BE ISSUED UNTIL ADJACENT PUBLIC WATER LINES SERVING THE CONSTRUCTION SITE HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER AND HAVE BEEN ACCEPTED BY THE CITY ENGINEER. A TAP PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE CITY OF DUBLIN AND THE CITY OF COLUMBUS DIVISION OF WATER BEFORE MAKING ANY TAPS INTO PUBLIC WATER LINES.

8. THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS DIVISION OF WATER AT 645_7788 AND THE CITY OF DUBLIN DIVISION OF ENGINEERING AT LEAST 24 HOURS BEFORE TAPPING INTO EXISTING WATER LINES.

9. ALL WATER MAIN STATIONING SHALL BE BASED ON STREET CENTERLINE STATIONING.

10. ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE PER CITY OF COLUMBUS STANDARDS.

11. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 1 WORKING DAY BUT NOT MORE THAN 3 WORKING DAYS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE MINIMIZED AND MUST BE APPROVED BY THE CITY ENGINEER.

12. WATER METERS SHALL BE INSTALLED INSIDE PROPOSED STRUCTURES UNLESS A METER PIT INSTALLATION IS APPROVED BY THE CITY OF COLUMBUS DIVISION OF WATER. METER PITS MUST CONFORM TO STANDARD DRAWINGS L-7103, A&B FOR 5/8" THROUGH 1" METERS OR L-6317, A, B, C&D FOR 1-1/2" OR LARGER METERS.

13. WATER LINES TO BE INSTALLED IN EMBANKMENT AREAS SHALL BE PLACED AFTER THE EMBANKMENT HAS BEEN PLACED AND COMPACTED ACCORDING TO THE STANDARD SPECIFICATIONS.

14. CURB STOP BOXES SHALL BE LOCATED AT LEAST 1 FOOT INSIDE THE RIGHT_OF_WAY AND SET AT FINISHED GRADE.

15. IF THE TOP OF THE OPERATING NUT OF ANY VALVE IS GREATER THAN 36 INCHES BELOW FINISHED GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO WITHIN 24 INCHES OF FINISHED GRADE ELEVATION.

16. ALL WATER LINES SHALL BE PLACED AT A MINIMUM DEPTH OF 4 FEET MEASURED FROM TOP OF FINISHED GRADE TO TOP OF WATER LINE. WATER LINES SHALL BE SET DEEPER AT ALL POINTS WHERE NECESSARY TO CLEAR EXISTING OR PROPOSED UTILITY LINES OR OTHER UNDERGROUND RESTRICTIONS BY A MINIMUM OF 18 INCHES.

17. TWO ¾ INCH TAPS SHALL BE INSTALLED WITHIN 2 FEET OF THE END OF THE LINE ON ALL DEAD-END WATER LINES.

STORM SEWER

1. ALL STORM WATER DETENTION AND RETENTION AREAS AND MAJOR FLOOD ROUTING SWALES SHALL BE CONSTRUCTED TO FINISH GRADE AND HYDRO_SEEDED AND HYDRO_MULCHED ACCORDING TO ITEMS 203 AND 659 OF THE STANDARD SPECIFICATIONS.

2. WHERE PRIVATE STORM SEWERS CONNECT TO PUBLIC STORM SEWERS, THE LAST RUN OF PRIVATE STORM SEWER CONNECTING TO THE PUBLIC STORM SEWER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. INSPECTION IS REQUIRED BY THE CITY OF DUBLIN'S DIVISION OF ENGINEERING.

3. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 613, TYPE II OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.

4. ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.

5. HEADWALLS SHALL BE REQUIRED AT ALL STORM SEWER INLETS OR OUTLETS TO AND FROM STORMWATER MANAGEMENT FACILITIES. NATURAL STONE AND/OR BRICK APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED ON ALL VISIBLE HEADWALLS SURFACES.

6. STORM INLETS OR CATCH BASINS SHALL BE CHANNELIZED AND HAVE BICYCLE SAFE GRATES. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO AND ALL CURB INLET AND CATCH BASIN GRATES SHALL INDLUCE ENGRAVED LETTERING: "DUMP NO WASTE; DRAINS TO RIVER."

7. STORM SEWER OUTLETS GREATER THAN 18 INCHES IN DIAMETER ACCESSIBLE FROM STORMWATER MANAGEMENT FACILITIES OR WATERCOURSES SHALL BE PROVIDED WITH SAFETY GRATES, AS APPROVED BY THE CITY ENGINEER.

8. HP STORM AND HP SANITITE OR APPROVED EQUAL ARE APPROVED ALTERNATIVES TO REINFORCED CONCRETE PIPE IN PAVED AND NON PAVED AREAS AS APPROVED BY THE CITY ENGINEER. THIS INCLUDES APPLICATIONS INSIDE THE RIGHT-OF-WAY.

9. HP STORM AND HP SANITITE OR APPROVED EQUAL PIPE JOINTS SHALL BE WATERTIGHT ACCORDING TO REQUIREMENTS OF ASTM D3212. PIPES SHALL BE JOINED WITH A GASKETED INTEGRAL BELL & SPIGOT JOINT MEETING THE REQUIREMENTS OF ASTM F2881 (HP STORM) AND ASTM F2764 (HP SANITITE). GASKETS SHALL BE INSTALLED BY PIPE MANUFACTURER AND COVERED WITH REMOVABLE, PROTECTIVE WRAP TO ENSURE THE GASKET IS FREE FROM DEBRIS. A JOINT LUBRICANT AVAILABLE FROM THE MANUFACTURER SHALL BE USED ON THE GASKET AND BELL DURING JOINT ASSEMBLY.

10. ALL BEDDING MATERIAL SHALL BE IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S149.

11. BACKFILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH ITEM 911 OR ITEM 912 OF THE CITY OF COLUMBUS CONSTRUCTION MATERIAL SPECIFICATIONS (CMS).

12. BACKFILL MATERIAL IN AREAS LOCATED OUTSIDE THE PUBLIC RIGHT-OF-WAY SHALL BE PLACED IN ACCORDANCE WITH ITEM 901 OF THE CITY OF COLUMBUS (CMS).

ALL HP STORM AND HP SANITITE PIPE (FOR STORM SEWER) SHALL BE MANDREL TESTED IN ACCORDANCE WITH CITY OF COLUMBUS ITEM 901.21, WITH THE EXCEPTION THAT THE WAITING PERIOD PRIOR TO TESTING SHALL BE 30 DAYS.

MAIL DELIVERY

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT US MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.

2. BEFORE RELOCATING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.

USE OF FIRE HYDRANTS

1. THE CONTRACTOR SHALL MAKE PROPER ARRANGEMENTS WITH THE DUBLIN SERVICE DEPARTMENT AND THE COLUMBUS DIVISION OF WATER FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK PERFORMED UNDER THIS CONTRACT AND PROVIDE THE CITY OF DUBLIN A COPY OF THE HYDRANT USAGE PERMIT OBTAINED FROM THE CITY OF COLUMBUS. THE CONTRACTOR SHALL ALSO SEND A COPIES OF PERMITS OBTAINED FROM DUBLIN AND COLUMBUS TO THE WASHINGTON AND/OR PERRY TOWNSHIP FIRE DEPARTMENT. PERMITS SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.

2. BEFORE THE FINAL ESTIMATE IS PAID, THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE CITY OF COLUMBUS DIVISION OF WATER TO THE CITY ENGINEER STATING THAT THE CONTRACTOR HAS RETURNED THE SIAMESE VALVE TO THE CITY OF COLUMBUS AND HAS PAID ALL COSTS ARISING FROM THE USE OF THE FIRE HYDRANTS.

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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

GENERAL NOTES

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

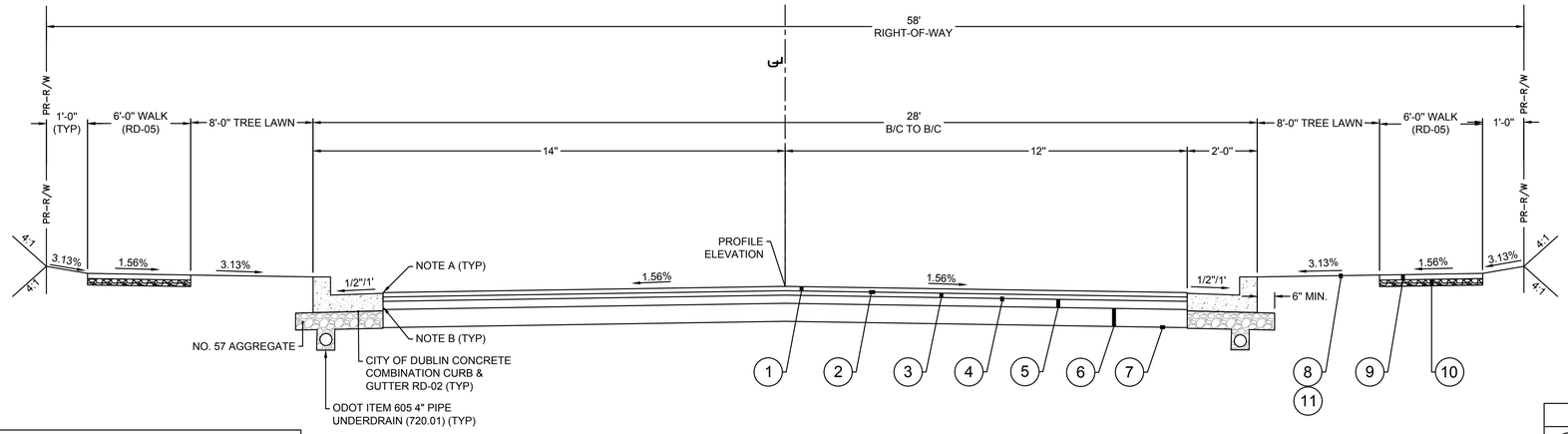
DATE:	7/17/2025

NOTE A

ITEM 441 ASPHALT SURFACE COURSE IS TO BE MAXIMUM 1/4" ABOVE GUTTER PLATE.

NOTE B

TACK COAT (AC) FACE OF CURB (INCIDENTAL TO ITEM 441 ASPHALT CONCRETE.)



A TYPICAL SECTION - LIU COURT
NOT TO SCALE

STA 10+68.60 TO 14+60.99

TYPICAL SECTION LEGEND	
1	ITEM 441 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG. 64-22
2	ITEM 407 - NON-TRACKING TACK COAT @ 0.075 GAL/S.Y.
3	ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG. 64-22
4	ITEM 407 - NON-TRACKING TACK COAT @ 0.10 GAL/S.Y.
5	ITEM 301 - 3" ASPHALT CONCRETE BASE
6	ITEM 304 - 6" AGGREGATE BASE
7	ITEM 204 - SUBGRADE COMPACTION
8	ITEM 659 - SEEDING AND MULCHING, CLASS 1 AS PER PLAN (SEE NOTE 32 ON GENERAL NOTE PAGE)
9	ITEM 608 - 4" CONCRETE SIDEWALK
10	ITEM 304 - 3" AGGREGATE BASE
11	ITEM 653 - 3" TOPSOIL FURNISHED AND PLACED

ESTIMATE OF QUANTITIES			
THESE QUANTITIES HAVE BEEN PROVIDED ONLY AS AN ESTIMATE TO THE SCOPE OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO EVALUATE THE COMPLETE PROJECT AS DETAILED IN THE NOTES, PLANS, AND SPECIFICATIONS AND PROCEDURES NECESSARY FOR THE COMPLETION OF THE PLAN IMPROVEMENTS AND SUBMIT HIS TOTAL PROJECT COST ACCORDINGLY.			
DEMOLITION			
ITEM	QUANTITY	UNIT	DESCRIPTION
201	LUMP	SUM	CLEARING AND GRUBBING
202	55	EA	REMOVE TREE
202	2	EA	REMOVE TREE STUMP
202	1356	SY	DRIVE REMOVED
202	367	LF	FENCE REMOVED
202	37	LF	WALL REMOVED
202	3	EA	BUILDING REMOVED
202	1	EA	TENNIS COURT REMOVED
SITE			
203		CY	EXCAVATION
203		CY	EMBANKMENT
204	2,074	SY	SUBGRADE COMPACTION
207	27	CY	STABILIZED CONSTRUCTION ENTRANCE
207	1	EACH	DESIGNATED CONCRETE WASHOUT AREA
207	8	EACH	INLET PROTECTION
207	497	LF	PERIMETER FILTER FABRIC FENCE
301	173	CY	3" ASPHALT CONCRETE BASE
304	346	CY	6" AGGREGATE BASE
407	156	GAL	TACK COAT (0.075 GAL/SY)
407	207	GAL	TACK COAT (0.10 GAL/SY)
441	72	CY	1.25" ASPHALT CONCRETE SURFACE COURSE
441	101	CY	1.75" ASPHALT CONCRETE INTERMEDIATE COURSE
608	7,751	SF	4" CONCRETE WALK
608		EACH	TYPE "A" CURB RAMP
609	1,257	LF	COMBINATION CURB AND GUTTER
630	4	EACH	STREET SIGN (RD-10)
630	1	EACH	STOP SIGN (RD-10)
659	1,129	SY	SEEDING AND MULCHING
STORM			
601		CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
604	5	EACH	48" TYPE "C" MANHOLE (AA-S102) W/ CITY OF DUBLIN LID (ST-03)
604	1	EACH	48" TYPE "C" MANHOLE (AA-S102) W/ CITY OF DUBLIN LID (ST-03) (OUTLET STRUCTURE)
604	6	EACH	CURB & GUTTER INLET (AA-S125A) W/ GRATE (ST-04)
604	2	EACH	CB (AA-S130)
604	1	EACH	PRECAST HEADWALL (AA-S168)
901	44	LF	12" RCP STORM PIPE, WITH ITEM 911 BACKFILL
901	339	LF	12" RCP STORM PIPE, WITH ITEM 912 BACKFILL
901		LF	18" RCP STORM PIPE, WITH ITEM 911 BACKFILL
901	81	LF	18" RCP STORM PIPE, WITH ITEM 912 BACKFILL
901		LF	24" RCP STORM PIPE, WITH ITEM 912 BACKFILL
901	51	LF	24" RCP STORM PIPE, WITH ITEM 911 BACKFILL
WATER			
801		LF	6 INCH WATER PIPE AND FITTINGS
801	700	LF	8 INCH WATER PIPE AND FITTINGS
802		EACH	8" VALVE AND APPURTENANCES
802	4	EACH	6" VALVE AND APPURTENANCES
805	7	EACH	3/4" WATER TAP
809	3	EACH	FIRE HYDRANT TYPE A
SPEC	LUMP	SUM	SURVEY COORDINATES
CALCULATED BY: DATE: CHECKED BY:			

WATER COORDINATE TABLE						
DESCRIPTION	STATION	OFFSET	CL ELEVATION	AS-BUILT NORTHING	AS-BUILT EASTING	AS-BUILT CL ELEVATION
FIRE HYDRANT	11+89.60	16.00' L	843.81			
6" GATE VALVE	14+16.98	17.21' L	834.74			
FIRE HYDRANT	14+16.98	16.00' L	834.78			
FIRE HYDRANT	16+63.85	13.03' L	829.68			
6" GATE VALVE	16+65.03	13.36' L	829.78			
8" GATE VALVE	16+67.68	11.94' L	829.60			
8" GATE VALVE	94+57.29	16.17' L	848.93			

WATER COORDINATE TABLE						
DESCRIPTION	STATION	OFFSET	CL ELEVATION	AS-BUILT NORTHING	AS-BUILT EASTING	AS-BUILT CL ELEVATION
8"-11.25° BEND	10+38.36	14.30' L	848.49			
8"-11.25° BEND	10+62.02	19.33' L	848.28			
8"-11.25° BEND	11+75.21	19.32' L	844.42			
8"x6" TEE	11+89.66	19.34' L	843.77			
8"x6" TEE	14+16.98	19.31' L	834.59			
8"-11.25° BEND	14+75.32	18.77' L	833.02			
8"-22.5° BEND	15+15.59	17.54' L	832.12			
8"-22.5° BEND	15+51.75	20.86' L	831.32			
8"-22.5° BEND	15+70.41	26.54' L	830.86			
8"-22.5° BEND	15+89.84	42.71' L	830.22			
8"-22.5° BEND	16+12.81	49.85' L	829.60			
8"-22.5° BEND	16+35.24	47.79' L	829.60			
6"-22.5° BEND	16+48.41	40.87' L	829.60			
6"-22.5° BEND	16+64.81	21.17' L	829.60			
8"x6" TEE	16+67.06	13.93' L	829.60			
8" PLUG & THRUST BLOCK	16+67.95	11.07' L	829.60			
24"x8" TAPPING SLEEVE & VALVE	94+57.29	19.57' L	848.96			

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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

TYPICAL SECTIONS & DETAILS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	7/17/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

3/25

24-005-RES

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 2:31 PM EDITED BY: MLLIE DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D_DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690 TS&GN.DWG

CODED NOTES

1. EXISTING WALL TBR
2. EXISTING FENCE TBR
3. EXISTING TENNIS COURT TBR
4. EXISTING BUILDING TBR
5. EXISTING HOUSE TO REMAIN
6. EXISTING OVERHEAD ELECTRIC POLE & GUY WIRE TBRO, COORDINATE WITH UTILITY PROVIDER TO RECONNECT TO EXISTING HOUSE

DEMOLITION LEGEND

TBR	TO BE REMOVED
TBRO	TO BE REMOVED AND RELOCATED BY OTHERS
TBRR	TO BE REMOVED AND REPLACED
	ASPHALT PAVEMENT TO BE REMOVED
	CONCRETE PAVEMENT TO BE REMOVED
	MILLING LIMITS
—X—X—X—	ITEM TO BE REMOVED
	PAVEMENT TO BE SAWCUT
	EXISTING UTILITY TO BE REMOVED
	TREE TO BE REMOVED
	ALL SPRINKLER HEADS TO BE REMOVED

EXISTING LEGEND

- PL — PROPERTY LINE
- R/W — RIGHT-OF-WAY
- PAVEMENT/ SIDEWALK
- PAVEMENT STRIPING
- CURB
- ROAD CENTERLINE
- TREE DRIP LINE
- FENCE
- STREAM
- stm — STORM SEWER
- san — SANITARY SEWER
- w — WATER LINE
- g — GAS LINE
- fo — FIBER OPTIC LINE
- e — ELECTRIC
- ohe — OVERHEAD ELECTRIC
- t — TELECOMMUNICATION
- ctv — CABLE TELEVISION

NOTES

1. REFER TO TREE PRESERVATION SHEETS 19-20 FOR TREE REMOVAL INFORMATION

EXISTING PAVEMENT TO BE SAWCUT PER CITY OF COLUMBUS STANDARD DRAWING 1441 & FULL PAVEMENT REPAIR

SEE ROAD WIDENING PLANS FOR DEMOLITION WITHIN THE R/W

PID: 273-001926-00
OLSON ZACHARY MICHAEL & RACHEL LUCKHART
19 BROWNING CT
1.01 ACRES

PID: 273-001925-00
EAGLES NAETHAN
49 BROWNING CT
1.01 ACRES

GALWAY ESTATES SUBDIVISION
P.B. 89, P.G. 55

PID: 273-001924-00
CANDELA RICHARD & SANDRA R
75 BROWNING CT
1.23 ACRES

PID: 273-001923-00
SALISBURY LEE & KATE
91 BROWNING CT
1.95 ACRES

PID: 273-001792-00
WAGNER KATHRYN LTR
I.N. 201201130006073
3.279 ACRES

PID: 273-001793-00
HEGENDERFER JUSTIN L & ABIGAIL M
I.N. 202106160106000
1.672 ACRES

PID: 273-001786-00
GEORGE CRIMSON LLC
7192 DUBLIN RD
12.820 ACRES

PID: 273-001787-00
BOULDERS AT SCIOTO SHORES LLC
7118 DUBLIN RD REAR
2.96 ACRES

LOT 8
LOT 9
LOT 42
LOT 1
CONVENTRY WOODS, SECTION 2
P.B. 73, P.G. 17
RESERVE "D"
KILLILEA, SECTION 2
P.B. 93, P.G. 91
LUTHER MITCHELL'S SCIOTO SHORES
P.B. 18, P.G. 37

562.54'
116.39'
131.62'
110.70'
82.77'
190.67'
118.79'
343.49'
79.15'
160.3'
800.40'

DUBLIN ROAD
SCIOTO RIVER
EX DRIVE
EX POOL
EX BLDG
PUMP HOUSE
OUTLET
LOW AREA
ICV
w/RISER
EX 36" SAN (77-003-CIP)
20' SANITARY EASEMENT D.B. 3720, PG. 536
TOP=828.93'
INV. 12" SPP=827.38'
(ACCORDING TO GROUNDS CREW: PIPE OUTLETS @ PT. 169)
TOP=836.17'
INV. 36" RCP N/S=819.42'
(77-003-CIP)
TOP=852.90'
INV. 36" NE/S=819.90'
(77-003-CIP)
EXIST DRAINAGE INLET
TR:846.88
INV(S):843.43
INV(W):842.83
INV(E):842.78
EXIST DRAINAGE INLET
TR:847.08
INV(N):844.79
INV(S):844.89
CP950
CP900
CP947
SW6959
TBM1
6 CMP 829.17
6 CMP 819.73
2" SPP TO BLD. 814.98
3" CAST IRON EXPOSED PIPE
6" VERT. SPP POSSIBLE ICV W/NO LID & 9' TANK
12" SPP 768.66
w/ELEC.&COMM. DROPS - VACANT
w/ELEC.&COMM. DROP
FRONTIER 7192
WOWWAY 7177 DUBLIN RD
INTERSECTION ONLY OUTLET
TAKEN FULL FLOW
500-YR FLOODPLAIN
100-YR FLOODPLAIN
ZONE AE
FLOODWAY
MOUNTED

HORZ 1"=40' 0 40 80

24-005-RES

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 11:41 AM, EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690 DXTP.DWG

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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

EXISTING CONDITIONS & DEMOLITION PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	7/17/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

4/25

SITE LEGEND

PL	PROPERTY LINE
R/W	EXISTING RIGHT-OF-WAY
PR-R/W	PROPOSED RIGHT-OF-WAY
	CURB AND GUTTER
	SIGN
o o o	PROPOSED SWALE

HATCH LEGEND

CONCRETE SIDEWALK PER CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING RD-05 TO BE CONSTRUCTED BY DEVELOPER AT THE TIME OF STREET CONSTRUCTION

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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR
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SITE PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	7/17/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

5/25

24-005-RES

HORZ 1"=40' 0 40 80

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 2:15 PM EDITED BY: MLLIE DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690 SP.DWG

UTILITY LEGEND

- G — GAS
- SAN — SANITARY GRAVITY
- SS — SANITARY SERVICE
- W — WATER
- DWS — DOMESTIC WATER SERVICE
- FWS — FIRE WATER SERVICE
- E — ELECTRIC
- T — TELECOMMUNICATION
- FO — FIBER-OPTIC
- STM — STORM SEWER
- CATCH BASIN
- SANITARY MANHOLE
- FIRE HYDRANT
- WV — WATER VALVE
- FDC — FIRE DEPARTMENT CONNECTION
- WM — WATER MAIN
- FIRE HYDRANT
- LIGHT POLE (BY OTHERS)

PID: 273-001926-00
OLSON ZACHARY MICHAEL & RACHEL LUCKHART
19 BROWNING CT
1.01 ACRES

PID: 273-001925-00
EAGLES NAETHAN
49 BROWNING CT
1.01 ACRES

GALWAY ESTATES SUBDIVISION
P.B. 89, P.G. 55

LOT 9
LOT 8
LOT 7

PID: 273-001924-00
CANDELA RICHARD & SANDRA R
75 BROWNING CT
1.23 ACRES

PID: 273-001923-00
SALISBURY LEE & KATE
91 BROWNING CT
1.95 ACRES

PID: 273-001786-00
GEORGE CRIMSON LLC
7192 DUBLIN RD
12.820 ACRES

PID: 273-001792-00
WAGNER KATHRYN LTR
I.N. 201201130006073
3.279 ACRES

PID: 273-001793-00
HEGENDERFER JUSTIN L & ABIGAIL M
I.N. 202106160106000
1.672 ACRES

CONVENTRY WOODS, SECTION 2
P.B. 73, P.G. 17

RESERVE "D"

KILLILEA, SECTION 2
P.B. 93, P.G. 91

LUTHER MITCHELL'S SCIOTO SHORES
P.B. 18, P.G. 37

PID: 273-001787-00
BOULDERS AT SCIOTO SHORES LLC
7118 DUBLIN RD REAR
2.96 ACRES

DUBLIN ROAD

LIU COURT

SCIOTO RIVER

1 AREA: 40,116 SF (0.92 AC) PAD=852.00

2 AREA: 67,760 SF (1.56 AC) PAD=852.00 REAR=842.00 TOP=840.90' INV. 36" NE/S=819.90' (77-003-CIP)

3 AREA: 68,609 SF (1.58 AC) PAD=847.00 REAR=837.00

4 AREA: 130,733 SF (3.00 AC)

5 AREA: 58,218 SF (1.34 AC) PAD=837.00 REAR=827.00

6 AREA: 56,744 SF (1.30 AC) PAD=842.00

7 AREA: 40,531 SF (0.93 AC) PAD=852.00

PROP 83' STORM EASEMENT
PROP 30' SANITARY EASEMENT
EX 20' SANITARY EASEMENT
EX 36" SAN (77-003-CIP)
PROP 3/4" WAT SERVICE
PROP 6" SAN SERVICE @ 2.08% MIN
PROP 20' STORM EASEMENT
PROP 20' SANITARY EASEMENT
AS PER SANITARY PLANS
FIRE HYDRANT STA:11+89.60 CL ELEV:843.81
FIRE HYDRANT STA:14+16.98 CL ELEV:834.78
FIRE HYDRANT STA:16+63.85 CL ELEV:829.68
PROP 6" SAN SERVICE @ 2.08% MIN
PROP 30' STORM EASEMENT
PROPOSED 20' SANITARY SEWER EASEMENT
PROP SANITARY EASEMENT (WIDTH VARIES)
PROP 20'STORM EASEMENT
EX DRIVE
EX POOL
PUMP HOUSE
TOP=828.93' INV. 12" SPP=827.38' (ACCORDING TO GROUNDS CREW: PIPE OUTLETS @ PT. 1695)
TOP=853.62' (3' LID)
TOP=836.17' INV. 36" RCP N/S=819.42' (77-003-CIP)
EXIST DRAINAGE INLET TR:846.88 INV(S):843.43 INV(W):842.83 INV(E):842.78
EXIST DRAINAGE INLET TR:847.08 INV(N):844.79 INV(S):844.89
6" VERT. SPP POSSIBLE ICV W/NO LID & 6' TANK
12" SPP 768.66
2" SPR. TO BLD 814.96
500-YR FLOODPLAIN
100-YR FLOODPLAIN
ZONE AE
FLOODWAY

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	7/17/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

6/25

24-005-RES

HORZ 1"=40' 0 40 80

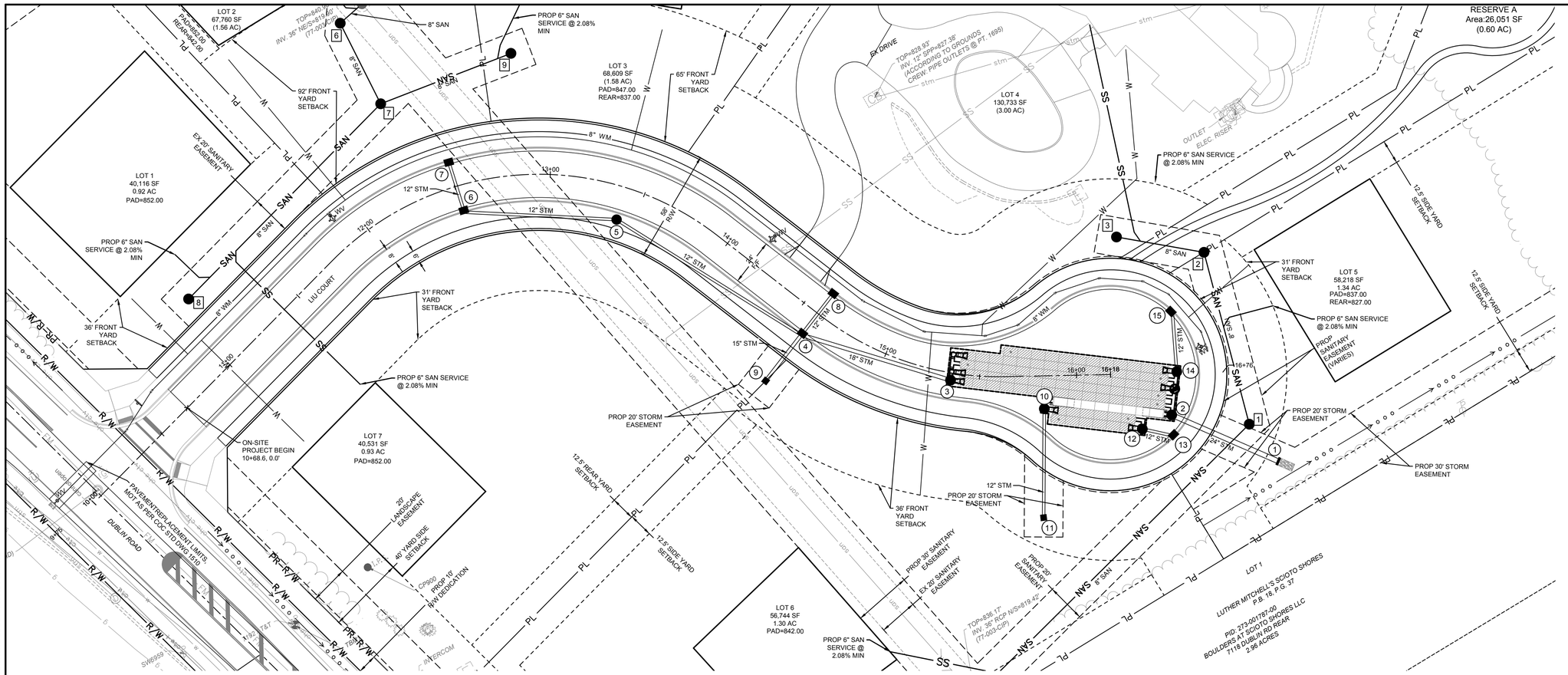
AMERICAN STRUCTUREPOINT INC.
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TEL 614.901.2235 | FAX 614.901.2236
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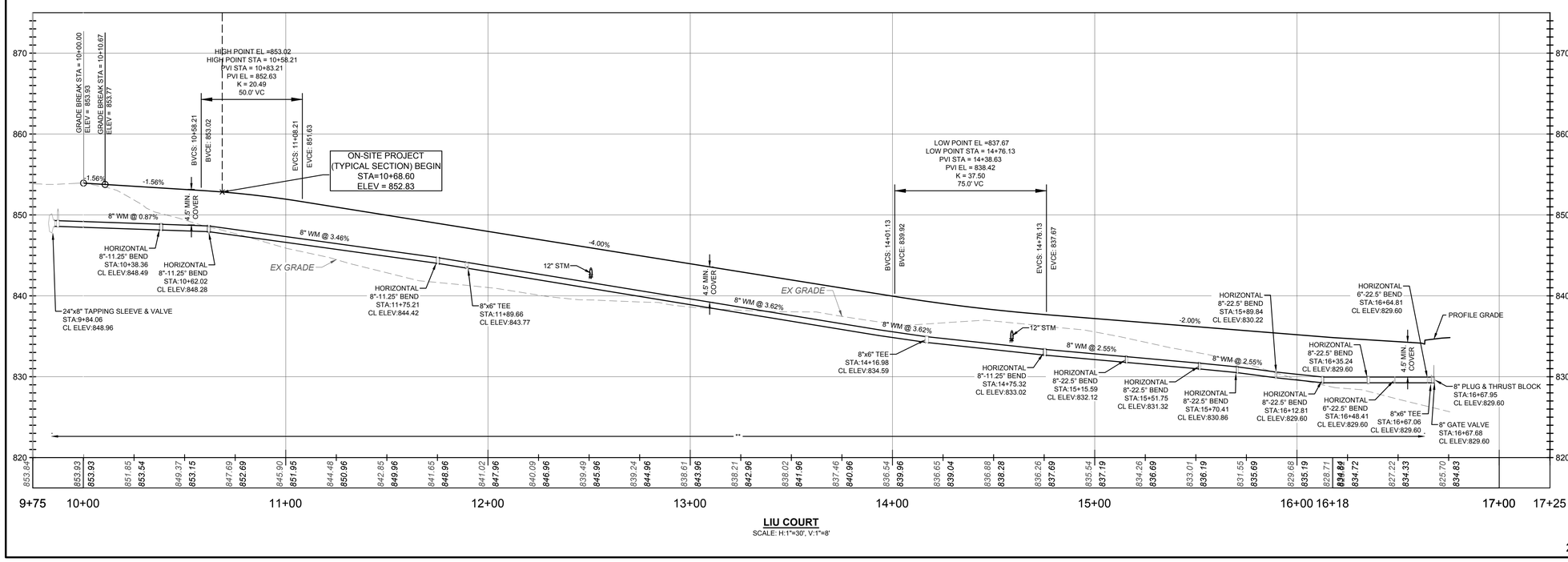
PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

UTILITY PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 2:18 PM EDITED BY: MLLIE DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D_DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690_UP.DWG





LIU COURT
SCALE: H:1"=30', V:1"=8'

NOTES:

1. PROFILE VERTICAL DATUM NAVD '88.
2. THE WATER MAIN ALIGNMENT IS PROJECTED ONTO THE CENTERLINE ALIGNMENT OF THE ROAD. THE UTILITY CROSSINGS SHOWN DO NOT REPRESENT THE CROSSINGS AT THE WATER MAIN, RATHER THE CROSSING AT THE CENTERLINE (#).
3. SEE WATER COORDINATE TABLE ON SHEET 3.

UTILITY LEGEND

- SAN — SANITARY MAIN
- SS — SANITARY SERVICE
- W — WATER
- STM — STORM SEWER MAIN
- CATCH BASIN
- HEADWALL
- STORM MANHOLE
- SANITARY MANHOLE
- FIRE HYDRANT
- WV — WATER VALVE
- WM — WATER MAIN
- WATER TEE
- WATER BEND
- WATER REDUCER

EXISTING LEGEND

- PL — PROPERTY LINE
- R/W — RIGHT-OF-WAY
- PAVEMENT/ SIDEWALK
- CURB
- ROAD CENTERLINE
- stm — STORM SEWER
- san — SANITARY SEWER
- w — WATER LINE
- g — GAS LINE
- fo — FIBER OPTIC LINE
- e — ELECTRIC
- ohe — OVERHEAD ELECTRIC
- t — TELECOMMUNICATION
- ctv — CABLE TELEVISION

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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN & PROFILE

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

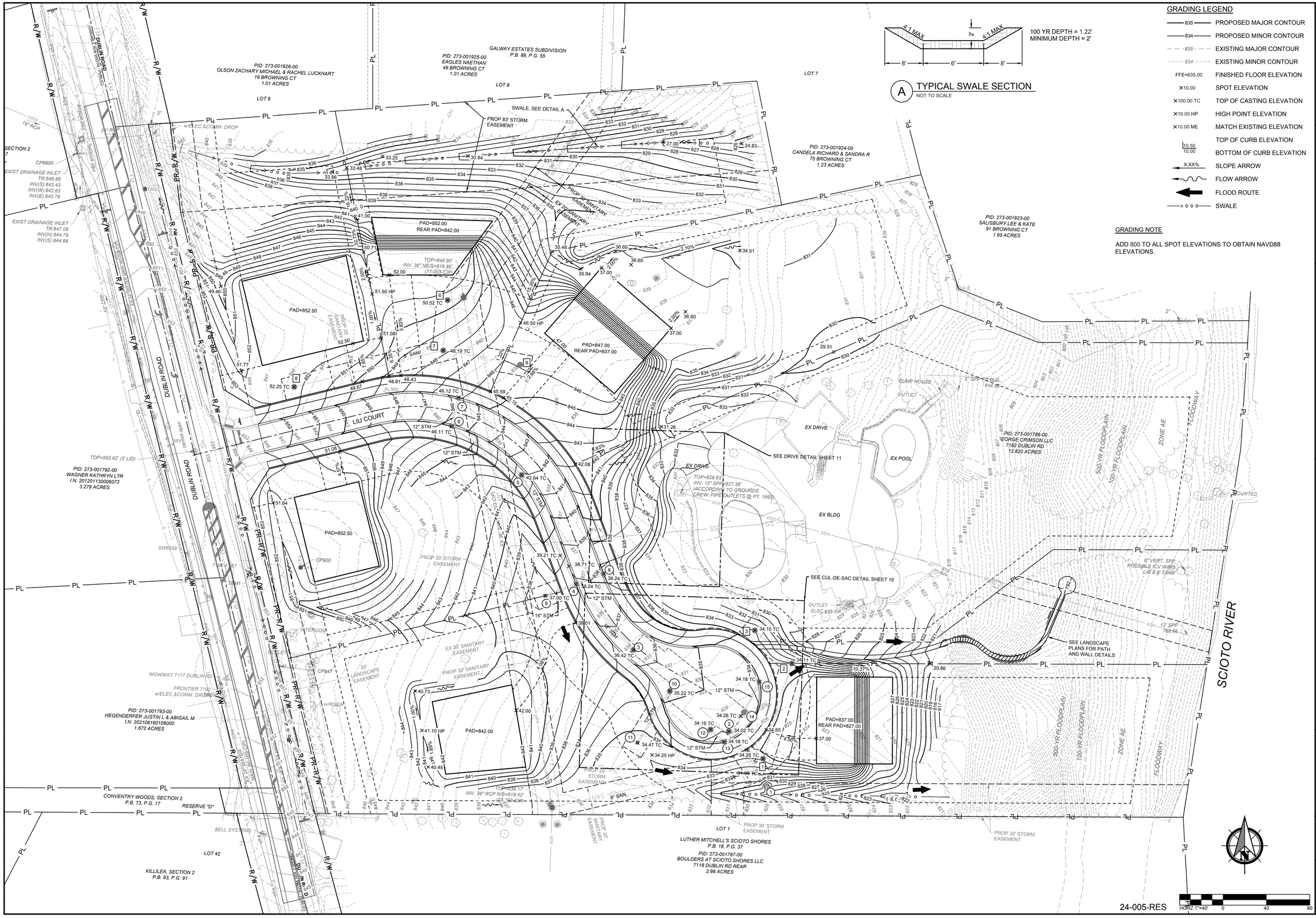
DATE:	7/17/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

7/25

VERT 1"=5' 0 5 10
HORZ 1"=30' 0 30 60

24-005-RES

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 2:17 PM EDITED BY: MLILIE DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690 P&P.DWG



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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

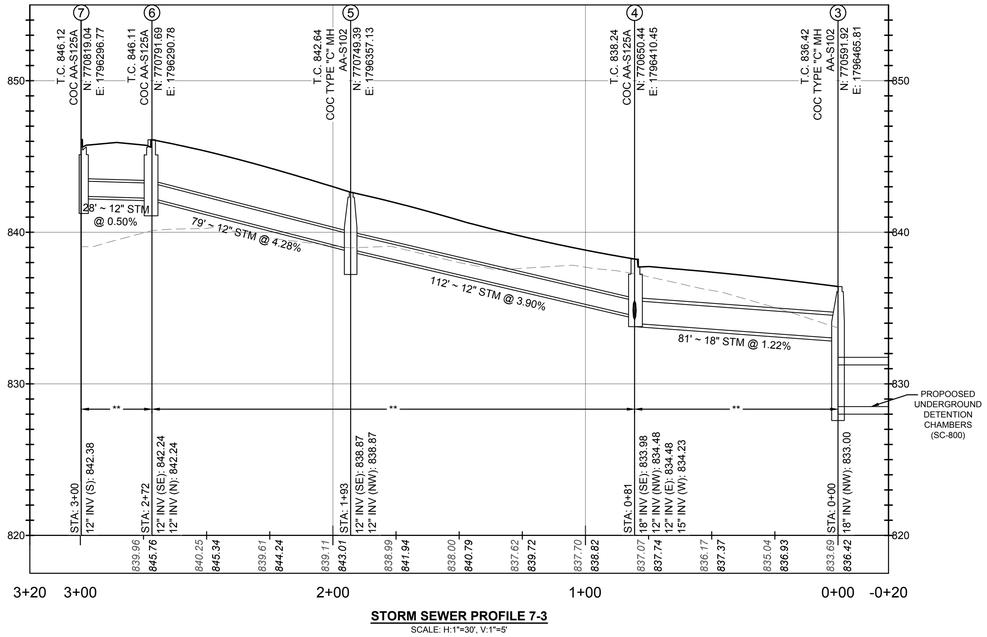
GRADING PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

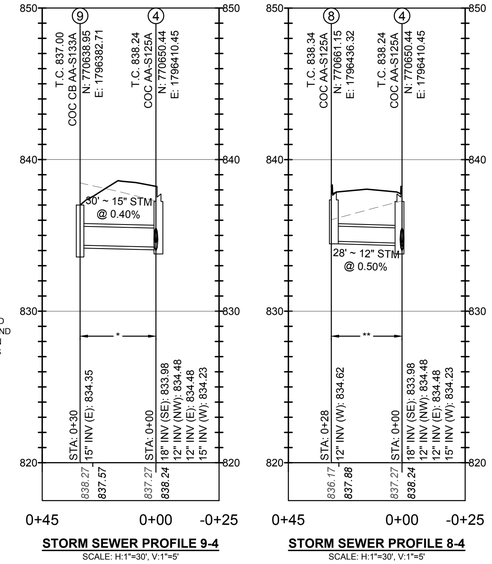
APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	7/17/2025
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9/25

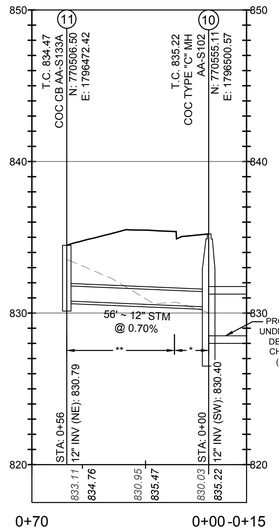


STORM SEWER PROFILE 7-3
SCALE: H:1"=30', V:1"=5'

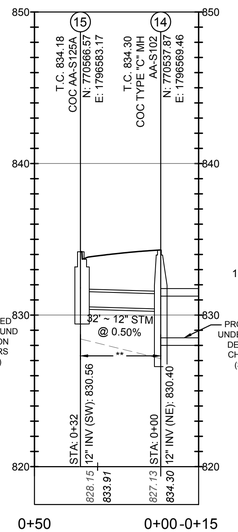


STORM SEWER PROFILE 9-4
SCALE: H:1"=30', V:1"=5'

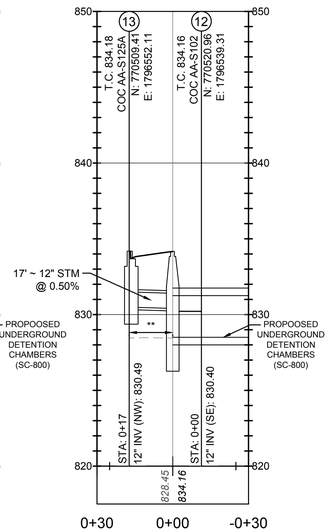
STORM SEWER PROFILE 8-4
SCALE: H:1"=30', V:1"=5'



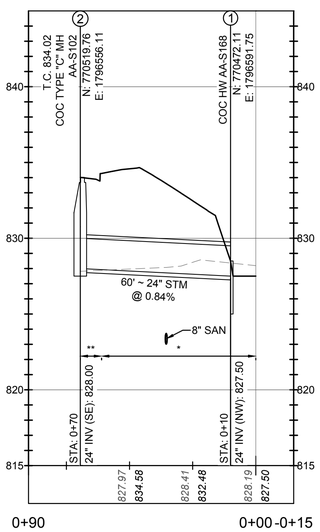
STORM SEWER PROFILE 11-10
SCALE: H:1"=30', V:1"=5'



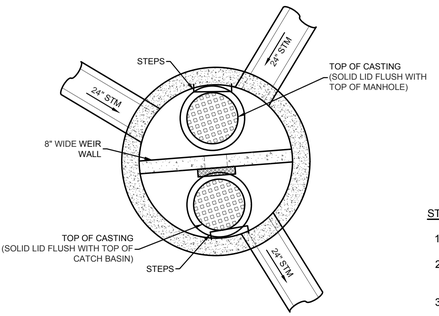
STORM SEWER PROFILE 15-14
SCALE: H:1"=30', V:1"=5'



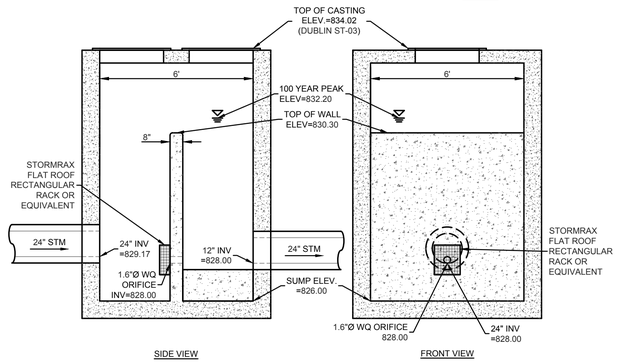
STORM SEWER PROFILE 13-12
SCALE: H:1"=30', V:1"=5'



STORM SEWER PROFILE 2-1
SCALE: H:1"=30', V:1"=5'



TOP VIEW



SIDE VIEW FRONT VIEW

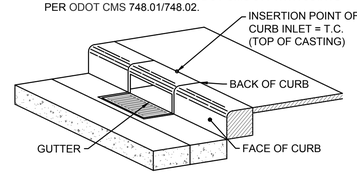
B OUTLET STRUCTURE DETAIL - MODIFIED COC AA-S102 MH - STRUCTURE (2)
NOT TO SCALE

STORM SEWER STRUCTURE TABLE

STRUCTURE NO	STRUCTURE TYPE	LID/ GRATE TYPE	NORTHING	EASTING	AS-BUILT NORTHING	AS-BUILT EASTING
15	COC AA-S125A	AA-S111	770566.5691	1796583.1735		
14	COC TYPE "C" MH AA-S102	AA-S111	770537.8708	1796569.4584		
13	COC AA-S125A	AA-S111	770509.4102	1796552.1115		
12	COC AA-S102	AA-S111	770520.9617	1796539.3101		
11	COC CB AA-S133A	AA-S111	770506.4970	1796472.4152		
10	COC TYPE "C" MH AA-S102	AA-S111	770555.1150	1796500.5652		
9	COC CB AA-S133A	AA-S111	770638.9511	1796382.7100		
8	COC AA-S125A	AA-S111	770661.1492	1796436.3153		
7	COC AA-S125A	AA-S111	770819.0427	1796296.7742		
6	COC AA-S125A	AA-S111	770791.6892	1796290.7781		
5	COC TYPE "C" MH AA-S102	AA-S111	770749.3899	1796357.1279		
4	COC AA-S125A	AA-S111	770650.4365	1796410.4457		
3	COC TYPE "C" MH AA-S102	AA-S111	770591.9197	1796465.8073		
2	COC TYPE "C" MH AA-S102	AA-S111	770519.7601	1796556.1072		
1	COC HW AA-S168	AA-S111	770472.1136	1796591.7461		

STORM SEWER PROFILE NOTES:

1. PROFILE VERTICAL DATUM NAVD '88.
2. ALL STORM STRUCTURES ARE ODOT STANDARD STRUCTURES UNLESS OTHERWISE NOTED.
3. MAINTAIN A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE FROM WATERLINES.
4. ALL BACKFILL SHALL BE COMPACTED TO THE DENSITY OF THE EXISTING GROUND UNLESS OTHERWISE NOTED:
   * COMPACTED BACKFILL PER ODOT CMS ITEM 611
   ** COMPACTED GRANULAR BACKFILL PER ODOT CMS ITEM 611
5. ALL FILLS ARE TO BE PLACED A MINIMUM OF 2.5' ABOVE THE PROPOSED STORM SEWER PER ODOT CMS ITEM 203 PRIOR TO THE START OF STORM SEWER CONSTRUCTION. HATCH BELOW FOR REFERENCE.
6. ALL STORM STRUCTURES WITHIN PAVEMENT LIMITS SHALL HAVE HEAVY DUTY TRAFFIC RATED GRATES.
7. NORTHING AND EASTING OF CURB AND GUTTER INLETS ARE IN REFERENCE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
8. T.C. (TOP OF CASTING) ELEVATION AND LOCATION FOR ALL CURB AND GUTTER INLETS IS IN REFERENCE TO THE BACK OF CURB ELEVATION.
9. PIPE RUNS DENOTED WITH A (++) ARE TO HAVE SANITARY GRADE PIPE PER ODOT CMS 611 WITH JOINTS PER ODOT CMS 748.01/748.02.



VERT 1"=5' 0 5 10
HORZ 1"=20' 0 20 40

24-005-RES

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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

STORM PROFILE

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	7/17/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

8/25

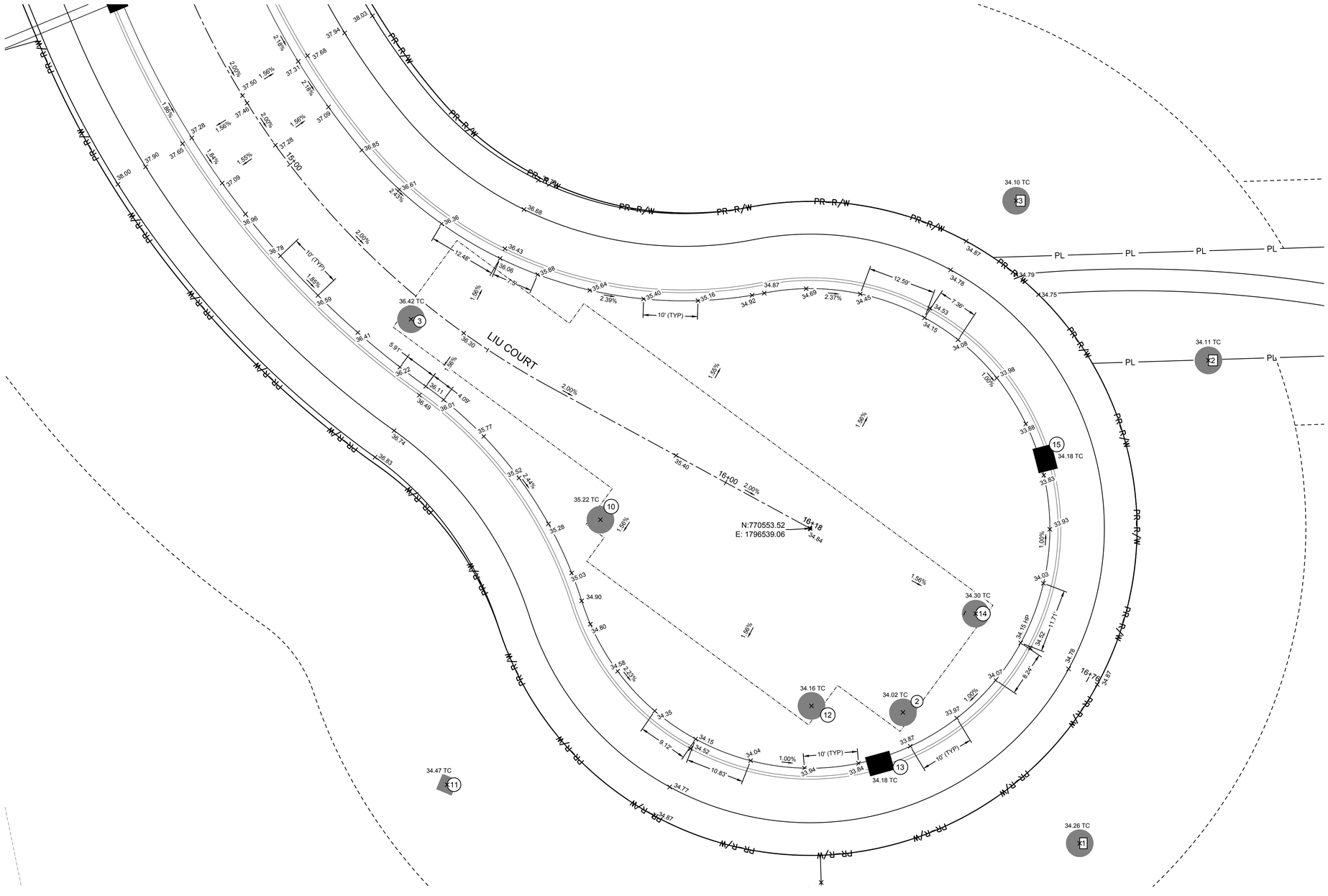
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GRADING LEGEND

FFE=110.00	FINISHED FLOOR ELEVATION
×10.00	SPOT ELEVATION
×100.00 TC	TOP OF CASTING ELEVATION
×10.00 HP	HIGH POINT ELEVATION
X.XX%	SLOPE ARROW
> o o o	SWALE

GRADING NOTE

ADD 800 TO ALL SPOT ELEVATIONS TO OBTAIN NAVD88 ELEVATIONS.



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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

CUL-DE-SAC DETAIL

REVISIONS	DATE	SHEET NO.	DESCRIPTION

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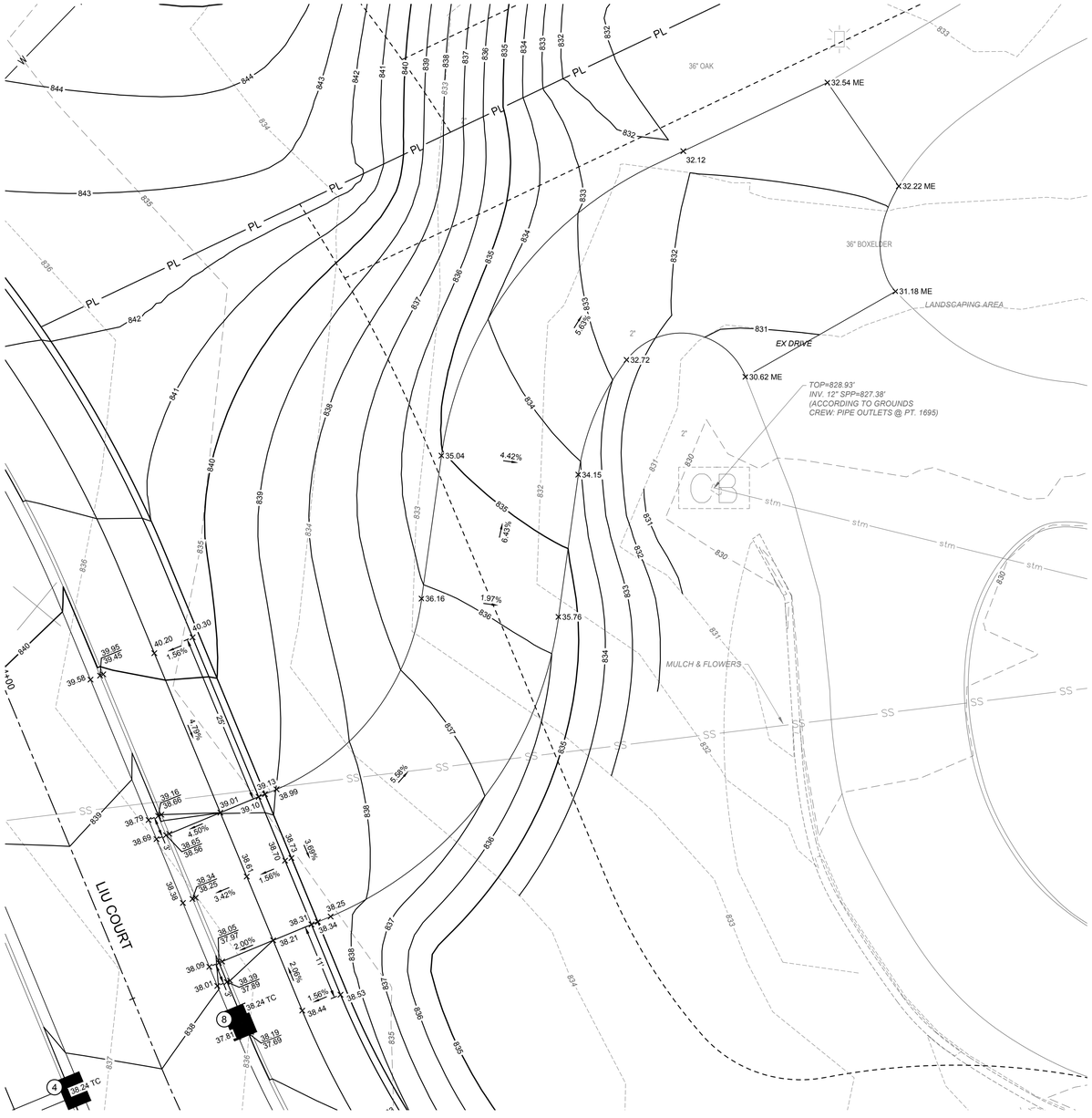
DATE:	7/17/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

10/25

24-005-RES

HORZ 1"=10' 0 10 20

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 11:48 AM EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\C\VIL\CONSTRUCTION DOCUMENTS\CONSITE CDS\24-005-ONSITE CDS\2024.00690 INT.DWG



DRIVEWAY DETAIL

GRADING LEGEND

835	PROPOSED MAJOR CONTOUR
834	PROPOSED MINOR CONTOUR
835	EXISTING MAJOR CONTOUR
834	EXISTING MINOR CONTOUR
FFE=835.00	FINISHED FLOOR ELEVATION
×10.00	SPOT ELEVATION
×100.00 TC	TOP OF CASTING ELEVATION
×10.00 HP	HIGH POINT ELEVATION
×10.00 ME	MATCH EXISTING ELEVATION
	TOP OF CURB ELEVATION
10.50 / 10.00	BOTTOM OF CURB ELEVATION
X.XX%	SLOPE ARROW
	FLOW ARROW
	FLOOD ROUTE
	SWALE

GRADING NOTE

ADD 800 TO ALL SPOT ELEVATIONS TO OBTAIN NAVD88 ELEVATIONS.

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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
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CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

DRIVEWAY DETAIL

REVISIONS	DATE	SHEET NO.	DESCRIPTION

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JOB NUMBER:	2024.00690

11/25

24-005-RES

HORZ 1"=10' 0 10 20

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 11:56 AM EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690 DRIVEWAY DETAIL.DWG

EROSION CONTROL LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- LIMITS OF DISTURBANCE
- SILT FENCE
- SWALE
- CONCRETE WASHOUT AREA
- CHECK DAM
- DANDY BAG INLET PROTECTION
- BEAVER DAM INLET PROTECTION SILT FENCE INLET PROTECTION
- INSTATURF SHEARFORCE 10 OR APPROVED EQUAL
- STABILIZED CONSTRUCTION ENTRANCE

PID: 273-001926-00
OLSON ZACHARY MICHAEL & RACHEL LUCKHART
19 BROWNING CT
1.01 ACRES

PID: 273-001925-00
EAGLES NAETHAN
49 BROWNING CT
1.01 ACRES

GALWAY ESTATES SUBDIVISION
P.B. 89, P.G. 55

LOT 8

LOT 9

LOT 7

PID: 273-001924-00
CANDELA RICHARD & SANDRA R
75 BROWNING CT
1.23 ACRES

PID: 273-001923-00
SALISBURY LEE & KATE
91 BROWNING CT
1.95 ACRES

LOT 2
67,760 SF
(1.56 AC)
PAD=852.00
REAR=842.00

LOT 1
40,116 SF
0.92 AC
PAD=852.50

LOT 3
68,609 SF
1.58 AC
PAD=847.00
REAR=837.00

LOT 7
40,531 SF
0.93 AC
PAD=852.50

LOT 6
56,744 SF
1.30 AC
PAD=842.00

LOT 4
130,733 SF
3.00 AC
EX BLDG

LOT 5
58,218 SF
1.34 AC
PAD=837.00
REAR=827.00

SEDIMENT TRAP

EX DRIVE

EX POOL

PID: 273-001786-00
GEORGE CRIMSON LLC
7192 DUBLIN RD
12.820 ACRES

PID: 273-001792-00
WAGNER KATHRYN LTR
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CONVENTRY WOODS, SECTION 2
P.B. 73, P.G. 17

RESERVE "D"

KILLILEA, SECTION 2
P.B. 93, P.G. 91

LOT 42

LOT 1
LUTHER MITCHELL'S SCIOTO SHORES
P.B. 18, P.G. 37

PID: 273-001787-00
BOULDERS AT SCIOTO SHORES LLC
7118 DUBLIN RD REAR
2.96 ACRES

DUBLIN ROAD

SCIOTO RIVER

500 YR FLOODPLAIN
100 YR FLOODPLAIN
ZONE AE
FLOODWAY

24-005-RES

HORZ 1"=40' 0 40 80

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 2:30 PM EDITED BY: MJLIE DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690 ECP.DWG

AMERICAN STRUCTUREPOINT INC.
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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

EROSION CONTROL PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	7/17/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

12/25

SITE NARRATIVE

PLAN DESIGNER	OWNER & SITE CONTACT
AMERICAN STRUCTUREPOINT, INC.	MR. JASON LIU
2550 CORPORATE EXCHANGE DR., STE 300	10279 WELLINGTON BLVD.
COLUMBUS, OHIO 43231	POWELL, OHIO 43065
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EXISTING SITE CONDITIONS: 1 RESIDENTIAL BUILDING AND DRIVEWAY; GRASS.

PROJECT DESCRIPTION: ACTIVITIES INCLUDE THE CONSTRUCTION OF A SINGLE FAMILY REDEVELOPMENT (7 DWELLING UNITS, 6 NEW HOMES, ASSOCIATED UTILITIES, DRIVES, SIDEWALK AND PAVEMENT IMPROVEMENTS, AND AN UNDERGROUND DETENTION SYSTEM. APPROXIMATELY 6.82 ACRES OF THE SITE WILL BE DISTURBED.

RECEIVING STREAM: SCIOTO RIVER.

DISTURBED AREA: 6.83 ACRES

SITE BMPS: FINAL LOCATIONS OF ALL SITE BMPS, INCLUDING DUMPSTERS, VEHICLE FUELING AREAS, CONCRETE TRUCK WASH, MATERIAL STORAGE, AND TOPSOIL STOCKPILES SHALL BE DETERMINED BY CONTRACTOR. IF FINAL LOCATION OF BMPS DIFFER FROM THE LOCATIONS SHOWN, CONTRACTOR SHALL MODIFY SWPPP AND INFORM OHIO EPA OF NEW LOCATIONS OF BMPS.

ADJACENT AREAS:
EAST: SCIOTO RIVER
NORTH: RESIDENTIAL HOMES
WEST: DUBLIN ROAD
SOUTH: RESIDENTIAL HOMES

GRADING REQUIREMENTS: DISTURBED AREAS WILL BE PROTECTED BY SILT FENCE, ROCK CHECK DAMS, AND TEMPORARY SEDIMENT TRAPS AS SHOWN ON THE PLAN. AREAS WILL BE STABILIZED WHEN GRADED TO PREVENT EROSION ON THE SITE.

EROSION & SEDIMENT CONTROL MEASURES: A COMBINATION OF MEASURES WILL BE USED TO PROVIDE EROSION & SEDIMENT CONTROL, INCLUDING SILT FENCE AND SEEDING.

PROVIDE INLET PROTECTION AT ALL NEW AND EXISTING DRAINAGE STRUCTURES.

ANY OFF SITE BORROW OR SPOIL AREAS SHALL BE SUBJECT TO THE REQUIREMENTS SET FORTH BY THE OHIO EPA. ALL EROSION AND SEDIMENT CONTROL MEASURES FOR OFF-SITE AREAS NOT COVERED BY A SEPARATE NOI OR SWPPP SHALL BE COORDINATED WITH THE OHIO EPA.

ALL TRENCH OR EXCAVATION GROUNDWATER CONTAINING SEDIMENT MUST BE EFFECTIVELY TREATED PRIOR TO DISCHARGE INTO THE STORM SEWER SYSTEM.

USE ALL MEANS NECESSARY TO CONTROL DUST ON THE SITE AND PREVENT TRACKING SOIL OFF SITE.

PERMANENT STABILIZATION: THE SITE WILL BE STABILIZED BY THE USE OF SEEDING OR SODDING IN LAWN AREAS.

MAINTENANCE: ALL EROSION CONTROL DEVICES ARE TO BE INSPECTED BY THE CONSTRUCTION SUPERINTENDENT WEEKLY AND AFTER SIGNIFICANT RAINFALLS. ANY DAMAGED FACILITIES ARE TO BE REPLACED OR REPAIRED IMMEDIATELY AS MAY BE NECESSARY.

GENERAL CONSTRUCTION SEQUENCE: (UNLESS NOTED OTHERWISE, ALL EROSION AND SEDIMENT CONTROL MEASURES FROM THE BEGINNING OF EARTH DISTURBING ACTIVITIES TO FINAL COMPLETION OF THE PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR)

1. ESTABLISH CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT CONSTRUCTION AREA.
2. CONSTRUCT TEMPORARY SEDIMENT CONTROLS AND PERIMETER EROSION CONTROL MEASURES, INCLUDING SEDIMENT BASINS, TEMPORARY OUTLET STRUCTURE, CONSTRUCTION ENTRANCE, AND SILT FENCE. MEASURES SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS OF FIRST GRUBBING.
3. CLEAR AND GRUB
4. STRIP AND STOCKPILE TOPSOIL. SEED STOCKPILES. PROVIDE PERIMETER SILT FENCE AT TOE OF STOCKPILE SLOPE.
5. PERFORM ROUGH GRADING AND EXCAVATION. STABILIZE AREAS AS INDICATED HEREIN.
6. INSTALL STORM SEWERS, OUTLET STRUCTURE, AND INLET FILTERS.
7. COMPLETE ALL PAVEMENT ACTIVITIES.
8. COMPLETE FINE GRADING OF SEEDED AREAS AND STABILIZE DISTURBED AREAS.
9. ONCE FINAL SEED HAS BEEN ESTABLISHED, CONTRACTOR TO REMOVE TEMPORARY EROSION CONTROL MEASURES AND CLEAN ALL SEDIMENT FROM STRUCTURES AND PAVEMENT. SEDIMENT/WATER QUALITY BASIN SHALL BE CLEANED OF ALL ACCUMULATED SEDIMENT AND RESTORED TO THE ORIGINAL DESIGN CONTOURS SHOWN ON THESE PLANS.
10. PRIOR TO FINISHING WORK, ALL AREAS OF THE SITE DISTURBED BY CONSTRUCTION ACTIVITY (INCLUDING, BUT NOT LIMITED TO MATERIAL STORAGE AREAS, TRAILER AREAS, FUELING AREAS, TRUCK WASH AREAS, EQUIPMENT PATHS, HAUL ROADS, ETC.) SHALL BE RESTORED TO THEIR ORIGINAL CONDITIONS, OR IF IN AREAS OF PROPOSED IMPROVEMENTS, TO THEIR PROPOSED CONDITIONS. ALL STONE, TRASH, AND DEBRIS SHALL BE REMOVED FROM THE SOIL. THE UPPER 12" OF SOIL SHALL BE SCARIFIED, AND AREA SHALL BE GRADED TO SUBGRADE WITH SUITABLE MATERIALS. FURNISH 6" MINIMUM OF TOPSOIL AND SEED ALL AREAS.

SCHEDULE: THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE PLACED IN ACCORDANCE WITH THIS SCHEDULE.

JURISDICTION: ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF THE CITY OF DUBLIN AND/OR THE OHIO EPA.

OEPA NOI: SUBMITTED, PENDING APPROVAL

RUNOFF COEFFICIENTS:
PRE-DEVELOPED: C = 0.44
POST-DEVELOPED: C = 0.54
PRE-DEVELOPED IMPERVIOUS AREA: 0.47 ACRES
POST-DEVELOPED IMPERVIOUS AREA: 1.72 ACRES

EROSION CONTROL NOTES:

1. ALL EROSION CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO ANY SITE GRADING OPERATIONS. ALL APPLICABLE GOVERNING AGENCIES MUST BE NOTIFIED UPON COMPLETION OF THE INSTALLATION OF THE REQUIRED EROSION FACILITIES AND PRIOR TO ANY GRADING OPERATION BEING COMMENCED. IF DAMAGED OR REMOVED DURING CONSTRUCTION, ALL EROSION CONTROL FACILITIES SHALL BE RESTORED AND IN PLACE AT THE END OF EACH WORK DAY.
2. ANY EROSION CONTROL FACILITIES DEEMED NECESSARY BY THE GOVERNING AGENCIES; BEFORE, DURING OR AFTER THE GRADING ACTIVITIES, SHALL BE INSTALLED AT THEIR REQUEST.
3. FLOWS FROM DIVERSION CHANNELS OR PIPES (TEMPORARY OR PERMANENT) SHALL BE ROUTED TO SEDIMENTATION BASINS OR APPROPRIATE ENERGY DISSIPATERS TO PREVENT TRANSPORT OF SEDIMENT TO OUTFLOW TO LATERAL CONVEYORS AND TO PREVENT EROSION AND SEDIMENTATION WHEN RUNOFF FLOWS INTO THESE CONVEYORS.
4. SITE ACCESS ROADS SHALL BE GRADED OR OTHERWISE PROTECTED WITH SILT FENCES, DIVERSION CHANNELS, OR DIKES AND PIPES TO PREVENT SEDIMENT FROM EXITING THE SITE VIA THE ACCESS ROADS. SITE-ACCESS ROADS/DRIVEWAYS SHALL BE SURFACED WITH CRUSHED ROCK WHERE THEY ADJOIN EXISTING PAVED ROADWAYS.
5. SOILS TRACKED FROM THE SITE BY MOTOR VEHICLES OR EQUIPMENT SHALL BE CLEANED DAILY FROM PAVED ROADWAY SURFACES, OR MORE FREQUENTLY IF REQUESTED BY GOVERNING AGENCIES, THROUGHOUT THE DURATION OF CONSTRUCTION.
6. DUST CONTROL MEASURES SHALL BE PERFORMED PERIODICALLY WHEN CONDITIONS REQUIRE AND/OR AS DIRECTED BY THE GOVERNING AGENCIES.
7. ALL EROSION CONTROL MEASURES SHALL BE USED AND MAINTAINED FOR THE DURATION OF SITE CONSTRUCTION. IF CONSTRUCTION OPERATIONS OR NATURAL EVENTS DAMAGE OR INTERFERE WITH THESE EROSION CONTROL MEASURES, THEY SHALL BE RESTORED TO SERVE THEIR INTENDED FUNCTION AT THE END OF EACH DAY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
8. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED AS SOON AS POSSIBLE. ANY AREAS WHICH HAVE BEEN FINISHED GRADED SHALL BE SODDED. AREAS THAT HAVE BEEN DISTURBED AND FOR WHICH GRADING OR SITE BUILDING CONSTRUCTION OPERATIONS ARE NOT ACTIVELY UNDERWAY SHALL BE TEMPORARILY SEEDED AND MULCHED AS REQUIRED BY GOVERNING AGENCIES.
9. RUNOFF SHALL BE PREVENTED FROM ENTERING ALL STORM SEWER CATCH BASINS PROVIDING THEY ARE NOT NEEDED DURING CONSTRUCTION. WHERE STORM SEWER CATCH BASINS ARE NECESSARY FOR SITE DRAINAGE DURING CONSTRUCTION, A SILT FENCE OR SEDIMENT PROTECTION DEVICES SHALL BE INSTALLED AND MAINTAINED AROUND ALL CATCH BASINS UNTIL THE TRIBUTARY AREA TO THE CATCH BASIN IS RESTORED.
10. EROSION CONTROL FACILITIES SHALL BE INSTALLED AND MAINTAINED AROUND THE PERIMETER OF ALL LAKES, PONDS, AND WETLANDS, IF ANY WITHIN OR ADJACENT TO THE AREA TO BE GRADED UNTIL THE AREA TRIBUTARY TO THE LAKE, POND, OR WETLAND IS RESTORED.
11. TO MINIMIZE EROSION, ALL 3:1 SLOPES OR GREATER SHALL BE COVERED WITH A TEMPORARY EROSION CONTROL BLANKET OR STAKED SOD.
12. ACCUMULATION OF ALL SEDIMENT OCCURRING IN STORM SEWERS, DITCHES, LAKES, PONDS, WETLANDS SHALL BE REMOVED PRIOR TO, DURING AND AFTER COMPLETION OF GRADING ACTIVITIES, AT NO ADDITIONAL COST TO OWNER.
13. EROSION CONTROL ITEMS AND DEVICES SHALL BE REMOVED ONLY AFTER THE AREA HAS RECEIVED FINAL STABILIZATION.
14. THIS PLAN MUST BE POSTED ON SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON SITE AT ALL TIME.

SEDIMENT AND EROSION CONTROL NOTES:

MAINTENANCE & INSPECTION PROCEDURES:
ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS FOLLOWING ANY STORM EVENT OF 0.5INCHES OR GREATER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SEDIMENTATION AND EROSION CONTROL FEATURES ON THIS PROJECT. ANY SEDIMENT OR DEBRIS WHICH REDUCES THE EFFICIENCY OF A CONTROL FEATURE SHALL BE REMOVED IMMEDIATELY, SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER AND IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.

TEMPORARY SEEDING AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION, AND A WRITTEN LOG MUST BE KEPT. THIS LOG SHALL INDICATE THE DATE OF THE INSPECTION, NAME OF THE INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, ANY CORRECTIVE ACTIONS TAKEN, AND BE SIGNED IN ACCORDANCE WITH THE CONDITIONS OF THE NPDES PERMIT. ANY CONTROL MEASURE MUST BE REPAIRED/REPLACED WITHIN THREE DAYS OF INSPECTION.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL BE TRAINED IN ALL INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER. A WRITTEN DOCUMENT CONTAINING THE SIGNATURES OF ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE IMPLEMENTATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE MAINTAINED AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE PLAN. THE DOCUMENT SHALL BE CREATED BY THE CONTRACTOR SIGNED PRIOR TO THE START OF CONSTRUCTION.

DISPOSAL OF SOLID/SANITARY/TOXIC WASTE:
SOLID, SANITARY, AND TOXIC WASTE MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS

IT IS PROHIBITED TO BURN, BURY, OR POUR OUT ONTO THE GROUND OR INTO A STORM SEWER WATER CONVEYANCE ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS, AND OTHER SUCH SOLID AND HAZARDOUS WASTES.

ANY RINSE WATERS OF SUCH MATERIAL ARE ALSO PROHIBITED FROM BEING PLACED WHERE THEY MAY ENTER DRAINAGEWAYS.

WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN A DIKED, DESIGNATED AREA, AWAY FROM ANY CONVEYANCE CHANNEL.

COORDINATE WASH OUT AREA WITH CONSTRUCTION MANAGER.

CONTRACTORS RESPONSIBILITIES:
THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.

DETAILS HAVE BEEN PROVIDED ON THE PLANS IN AN EFFORT TO HELP THE CONTRACTOR PROVIDE EROSION AND SEDIMENTATION CONTROL. THE DETAILS SHOWN ON THE PLAN SHALL BE CONSIDERED A MINIMUM. ADDITIONAL OR ALTERNATE DETAILS MAY BE FOUND IN THE ODNR MANUAL "RAINWATER AND LAND DEVELOPMENT". THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION AND SEDIMENT RUNOFF FROM THE SITE ALONG WITH PROPER MAINTENANCE AND INSPECTION IN COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORM DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. THE SCHEDULE SHOULD INCLUDE A SEQUENCE OF THE PLACEMENT OF THE SEDIMENTATION AND EROSION CONTROL MEASURES THAT PROVIDES FOR CONTINUAL PROTECTION OF THE SITE THROUGHOUT EARTH MOVING ACTIVITIES.

PRIOR TO CONSTRUCTION OPERATIONS IN A PARTICULAR AREA, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE. FIELD ADJUSTMENTS WITH RESPECT TO LOCATIONS AND DIMENSIONS MAY BE MADE BY THE ENGINEER AND/OR THE OHIO EPA.

THE CONTRACTOR SHALL PLACE INLET PROTECTION FOR THE SEDIMENTATION CONTROL IMMEDIATELY AFTER CONSTRUCTION OF THE CATCH BASINS OR INLETS WHICH ARE NOT TRIBUTARY TO A SEDIMENT BASIN OR DAM.

IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF SEDIMENTATION CONTROLS DURING CONSTRUCTION TO FACILITATE THE GRADING OPERATIONS IN CERTAIN AREAS. HOWEVER, THE CONTROLS SHALL BE REPLACED UPON GRADING OR DURING ANY INCLEMENT WEATHER.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFFSITE TRACKING OF SEDIMENTS BY VEHICLES AND EQUIPMENT IS MINIMIZED. ALL SUCH OFFSITE SEDIMENT SHALL BE CLEANED UP DAILY.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT NO SOLID OR LIQUID WASTE IS DISCHARGED INTO STORM WATER RUNOFF. UNTREATED SEDIMENT-LADEN RUNOFF SHALL NOT FLOW OFFSITE WITHOUT BEING DIRECTED THROUGH A CONTROL PRACTICE.

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE INTO OR ALONG SIDE RIVERS, STREAMS, CREEKS, NATURAL OR MAN-MADE CHANNELS OR SWALES LEADING THERETO. CONCRETE WASH WATER AND SURPLUS CONCRETE SHALL BE CONFINED TO APPROVED AREAS. AFTER SOLIDIFYING THESE WASTED MATERIALS SHALL BE REMOVED FROM THE SITE.

POST FLOOD EVENT SITE MAINTENANCE:

FOLLOWING A FLOOD EVENT, INSPECT ALL MECHANICAL EQUIPMENT THAT ARE LOCATED ON THE SITE FOR ANY DAMAGES. WALLS AND WALL PENETRATIONS SHALL ALSO BE CHECKED FOR CRACKS AND LEAKS AND REPAIRED AS NECESSARY. ALL DEBRIS THAT MAY HAVE ACCUMULATED ALONG THE SITE SHALL BE GATHERED AND DISPOSED OF ACCORDING TO CITY STANDARDS. CHECK AND ENSURE THAT ALL DRAINAGE STRUCTURES ARE IN STANDARD OPERATION AND REPAIR ANY DAMAGES OR CLOGS THAT MAY HAVE OCCURRED DURING FLOODING.

STABILIZATION PROCEDURES

CONTRACTOR SHALL BE RESPONSIBLE TO KEEP A RECORD OF DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN EARTH DISTURBANCE HAS TEMPORARILY OR PERMANENTLY CEASED ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES HAVE BEEN INITIATED. THE LIMITS OF SEEDING AND MULCHING ARE AS SHOWN WITHIN THE PLAN AS INDICATED BY THE LIMITS OF DISTURBANCE. ALL AREAS NOT DESIGNATED TO BE SEEDED SHALL REMAIN UNDER NATURAL GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

TEMPORARY STABILIZATION
TOPSOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY CEASES FOR AT LEAST 14 DAYS WILL BE STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 7 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. DISTURBED AREAS WITHIN 50 FEET OF A STREAM, FIRST ORDER OR LARGER, SHALL BE STABILIZED WITHIN 2 DAYS OF INACTIVITY. TEMPORARY STABILIZATION MUST BE APPLIED TO ANY AREA OF THE SITE WHICH WILL REMAIN IDLE OVER THE WINTER. THE TEMPORARY SEED SHALL BE RYE (GRASS) APPLIED AT A RATE OF 25 LBS PER 1000 SY. PRIOR TO SEEDING, 900 LBS OF GROUND AGRICULTURAL LIMESTONE AND 200 LBS OF 10-20-20 FERTILIZER SHALL BE APPLIED TO EVERY 1000 SY STABILIZED. IMMEDIATELY AFTER ANY GIVEN AREA IS SEEDED, STRAW OR HAY SHALL BE EVENLY PLACED OVER ALL SEEDED AREAS. TWO TONS PER ACRE FOR STRAW, OR 3 TONS PER ACRE FOR HAY SHALL BE PLACED WHEN SEEDING IS PREFORMED BETWEEN THE DATES OF MARCH 15 AND OCTOBER 15. THREE TONS PER ACRE STRAW, OR 4.5 TONS PER ACRE FOR HAY, SHALL BE PLACED WHEN SEEDING IS PREFORMED BETWEEN THE DATES OF OCTOBER 15 AND MARCH 15 OF THE SUCCEEDING YEAR. IF DORMANT SEEDING IS BEING USED FOR STABILIZATION, SEED SHALL BE PLANTED AFTER NOVEMBER 20. AREAS TO BE PAVED SHALL BE TEMPORARILY STABILIZED BY APPLYING STONE BASE UNTIL BITUMINOUS PAVEMENT CAN BE APPLIED.

IN ADDITION TO TEMPORARY SEEDING, THE CONTRACTOR SHALL PLACE A FILTER FABRIC BARRIER AROUND THE BASE OF ALL SOIL STOCKPILES.

PERMANENT STABILIZATION
DISTURBED PORTIONS OF THE SITE WHEN CONSTRUCTION HAS COMPLETED, OR PORTIONS THAT WILL REMAIN DORMANT FOR LONGER THAN ONE YEAR, SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 7 DAYS AFTER FINAL GRADE HAS BEEN ESTABLISHED. THE PERMANENT SEED MIX SHALL CONSIST OF 260 LBS/ACRE OF TURF TYPE TALL FESCUE. PRIOR TO SEEDING, APPLY COMMERCIAL FERTILIZER AT THE RATE OF 1 LB ACTUAL NITROGEN PER 1000 SF. FERTILIZER TO HAVE 20-22-14 ANALYSIS. AFTER SEEDING, EACH AREA SHALL BE MULCHED USING TURFIBER (OR EQUIVALENT) AT A RATE OF 2000 LBS PER ACRE WITH 50 LBS OF TURFIBER ADDED PER 100 GALLONS OF MACHINE CAPACITY. KEEP HYDROMULCH FROM NON-TARGET AREAS INCLUDING PAVEMENT, PLANT MATERIALS, CURBING, AND STRUCTURES. IF THESE SURFACES ARE HIT DURING HYDROMULCHING OPERATIONS, WASH THE SURFACE IMMEDIATELY.

IF SEASONAL CONDITIONS PROHIBIT THE ESTABLISHMENT OF VEGETATIVE COVER, OTHER METHODS OF STABILIZATION, SUCH AS MULCHING WITH A TACKIFIER OR MATTING, MUST BE EMPLOYED AND MAINTAINED UNTIL A MORE PERMANENT METHOD CAN BE IMPLEMENTED.

TEMPORARY STABILIZATION	
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREA WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA. FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

PERMANENT STABILIZATION	
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
AN AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE IN THAT AREA

TEMPORARY SEEDING			
SEEDING DATES	SPECIES	LB/1,000 SF	PER ACRE
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	PERENNIAL RYEGRASS	1	40 LB
	TALL FESCUE	1	40 LB
	ANNUAL RYGRASS	1	40 LB
AUGUST 16 TO NOVEMBER 1	RY	3	2 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	WHEAT	3	2 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYGRASS	1	40 LB
	PERENNIAL RYEGRASS	1	40 LB
	TALL FESCUE	1	40 LB
	ANNUAL RYGRASS	1	40 LB
NOVEMBER 1 TO SPRING SEEDING	USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING.		
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED			

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EROSION CONTROL NOTES

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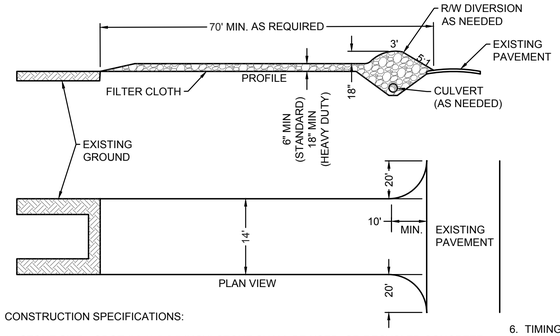
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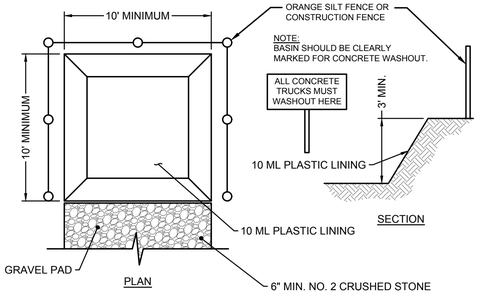
CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE—ODOT # 2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH—THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
3. THICKNESS -THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. WIDTH -THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS
5. GEOTEXTILE -A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 lbs
MINIMUM PUNCTURE STRENGTH	80 psi
MINIMUM TEAR STRENGTH	50 lbs
MINIMUM BURST STRENGTH	320 psi
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS<0.6 mm
PERMITIVITY	$1x10^{-3}$ cm/sec

6. TIMING—THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
7. CULVERT -A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
8. WATER BAR -A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
9. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR PREVENT FLOWING SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
10. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
11. REMOVAL—THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

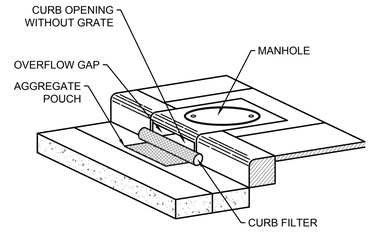
A CONSTRUCTION ENTRANCE
NOT TO SCALE



NOTE:

1. CONCRETE WASHOUT AREA SHALL BE LOCATED A MINIMUM OF 100' FROM STORM SEWER INLETS, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS.
2. IF CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO A CONSTRUCTION ENTRANCE.
3. CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. LARGE SITES MAY REQUIRE MULTIPLE CONCRETE WASHOUT AREAS.
4. PLASTIC LINING SHALL BE DOUBLE-LINED, CONTINUOUS 10-ML POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER DEFECTS INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF LARGE ROCKS AND DEBRIS.
5. CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA.
6. CONCRETE WASHOUT AREA SHALL BE COVERED DURING INCLEMENT WEATHER TO PREVENT OVERFLOW.
7. PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE.
8. CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR PLASTIC LINING SHALL BE REPAIRED IMMEDIATELY. REPLACE THE ENTIRE CONCRETE WASHOUT AREA WHEN IT IS 75% FULL.

B CONCRETE WASHOUT AREA
NOT TO SCALE



INSTALLATION:

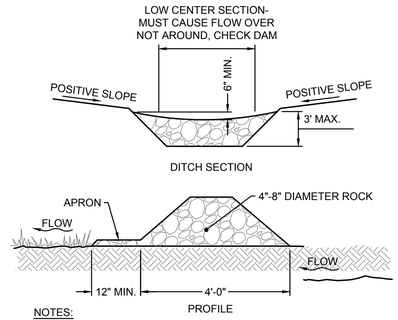
1. STAND GRATE ON END. SLIDE THE BEAVER DAM BAG ON WITH DAM ON TOP OF THE GRATE. PULL ALL EXCESS DOWN.
2. LAY UNIT ON ITS SIDE. CAREFULLY TUCK FLAP IN. PRESS VELCRO STRIPS TOGETHER.
3. INSTALL THE UNIT MAKING SURE FRONT EDGE OF GRATE IS INSERTED IN FRAME FIRST, THEN LOWER BACK INTO PLACE.
4. PRESS VELCRO DOTS TOGETHER WHICH ARE LOCATED UNDER LIFTING STRAPS. THIS ENSURES STRAPS REMAIN FLUSH WITH GUTTER.

MAINTENANCE:

1. WITH A STIFF BRISTLE BROOM, SWEEP SILT AND OTHER DEBRIS OFF SURFACE AFTER EACH STORM EVENT.

C BEAVER DAM INLET PROTECTION
NOT TO SCALE

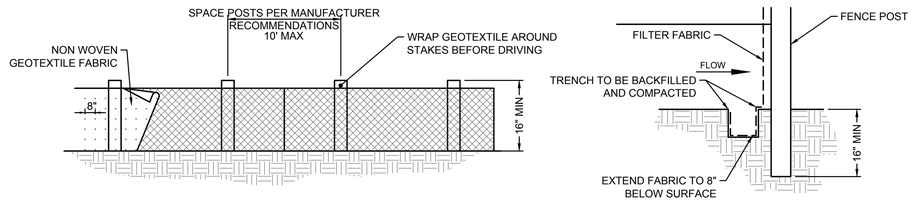
DANDY BAG WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT THAT MEETS OR EXCEEDS THE FOLLOWING SPEFICIACATIONS	
GRAB TENSILE STRENGTH	ASTM D 4632
GRAB TENSILE ELONGATION	ASTM D 4632
PUNCTURE STRENGTH	ASTM D 4833
MULLEN BURST STRENGTH	ASTM D 3786
TRAPEZOID TEAR STRENGTH	ASTM D 4533
UV RESISTANCE	ASTM D 4355
APPARENT OPENING SIZE	ASTM D 4751
FLOW RATE	ASTM D 4491
PERMITIVITY	ASTM D 4491



NOTES:

1. CONSTRUCT CHECK DAM SUCH THAT THE CENTER IS 6" LOWER THAN THE OUTER EDGES.
2. SPACE CHECK DAMS SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
3. SIDE SLOPES SHALL BE A MINIMUM OF 2:1

E ROCK CHECK DAM
NOT TO SCALE

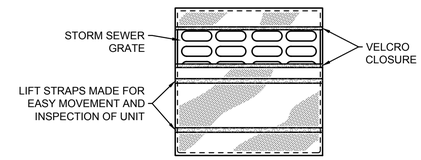


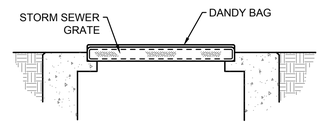
NOTES:

1. FENCE POST SHALL BE A MINIMUM LENGTH OF 32 INCHES LONG PLUS BURIAL DEPTH, COMPOSED OF NOMINAL DIMENSIONED 2x2 INCH HARDWOOD OF SOUND QUALITY. ALTERNATELY POST MATERIAL SHALL BE STEEL OR SYNTHETIC AND SHALL BE OF SUFFICIENT STRENGTH TO RESIST DAMAGE DURING INSTALLATION, TO SUPPORT APPLIED LOADS, AND SO THE GEOTEXTILE CAN BE ADEQUATELY SECURED TO POST
2. FABRIC SHALL BE A NEEDLE PUNCHED NON-WOVEN GEOTEXTILE FABRIC CONSISTING OF STRONG, ROT RESISTANT, MATERIALS RESISTANT TO DETERIORATION FROM ULTRAVIOLET AND HEAT EXPOSURE.
3. MINIMUM 8" FABRIC BURY REQUIRED.
4. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.
5. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
6. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
7. SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY HALF THE HEIGHT OF THE SILT FENCE.

MINIMUM CRITERIA FOR SILT FENCE FABRIC (ODOT, 2002)		
MINIMUM TENSILE STRENGTH	120 lbs (535 N)	ASTM D 4632
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 lbs (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 lbs (180 N)	ASTM D 4533
APPARENT OPENING SIZE	$\leq$ 0.84 mm	ASTM D 4751
MINIMUM PERMITIVITY	$1x10^{-2}$ sec.$^{-1}$	ASTM D 4491
UV EXPOSURE STRENGTH RETENTION	70%	ASTM D 4355

D SILT FENCE
NOT TO SCALE





INSTALLATION:

1. STAND GRATE ON END. PLACE DANDY BAG OVER GRATE.
2. FLIP GRATE OVER SO THAT OPEN END IS UP. PULL UP SLACK. TUCK FLAP IN. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR DANDY BAG WILL NOT FIT PROPERLY.
3. HOLDING HANDLES, CAREFULLY PLACE DANDY BAG WITH THE GRATE INSERTED INTO CATCH BASIN FRAME SO THAT RED DOT ON THE TOP OF THE DANDY BAG IS VISIBLE.

MAINTENANCE:

AFTER EACH STORM EVENT AND SILT HAS DRIED, REMOVE ACCUMULATED DEBRIS FROM THE SURFACE OF DANDY BAG WITH BROOM.

NOTE:

PROVIDE FOR INLETS LOCATED IN PAVEMENT

DANDY BAG WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT THAT MEETS OR EXCEEDS THE FOLLOWING SPEFICIACATIONS	
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GRAB TENSILE ELONGATION	ASTM D 4632
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UV RESISTANCE	ASTM D 4355
APPARENT OPENING SIZE	ASTM D 4751
FLOW RATE	ASTM D 4491
PERMITIVITY	ASTM D 4491

F DANDY BAG INLET PROTECTION
NOT TO SCALE

AMERICAN STRUCTUREPOINT INC.
2550 Corporate Exchange Dr. Ste 300 | Columbus, Ohio 43231
TEL 614.901.2235 | FAX 614.901.2236
www.structurepoint.com

PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

EROSION CONTROL DETAILS

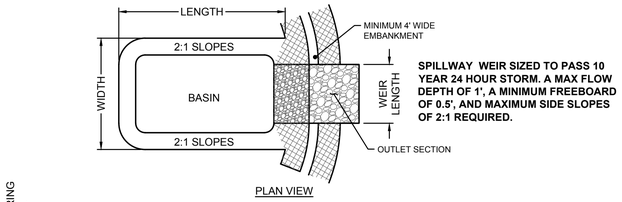
REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	7/17/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

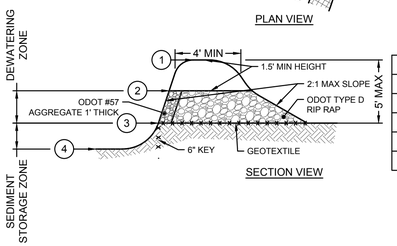
24-005-RES

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 2:30 PM EDITED BY: MLILIE DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690 ECP.DWG



PLAN VIEW

SPILLWAY WEIR SIZED TO PASS 10 YEAR 24 HOUR STORM. A MAX FLOW DEPTH OF 1', A MINIMUM FREEBOARD OF 0.5', AND MAXIMUM SIDE SLOPES OF 2:1 REQUIRED.



SECTION VIEW

DRAINAGE AREA (ACRES)	WEIR LENGTH
1	4.0
2	6.0
3	8.0
4	10.0
5	12.0

TEMPORARY SEDIMENT TRAP - DEWATERING VOLUME

1800 CF PER ACRE OF DRAINAGE AREA

1800 CF/AC * 4.31 AC = 7758 CF

(3) SEDIMENT STORAGE ELEVATION = 820.00

(2) DEWATERING/SPILLWAY ELEVATION = 823.00

(1) TOP OF BASIN ELEVATION = 824.50

VOLUME PROVIDED = 8,133 CF

TEMPORARY SEDIMENT TRAP - SEDIMENT STORAGE VOLUME

1000 CF PER ACRE OF DISTURBED AREA

1000 CF/AC * 3.76 AC = 3760 CF

(3) SEDIMENT STORAGE ELEVATION = 820.00

(4) BOTTOM OF BASIN ELEVATION = 817.00

VOLUME PROVIDED = 4,243 CF

NOTES:

1. FILL USED FOR THE EMBANKMENT SHALL BE EVALUATED TO ASSURE IT IS SUITABLE AND STABLE FOR THE SLOPES OF THE BASIN. IT IS TO BE FREE OF ANY DEBRIS AS A RESULT OF CLEARING AND GRUBBING (E.G. ROOTS, OTHER ORGANICS, ETC)
2. THE MAXIMUM HEIGHT OF THE EMBANKMENT SHALL BE FIVE FEET. ALL CUT AND FILL SLOPES SHALL BE 2:1 (H:V) OR FLATTER.
3. THE OUTLET SHALL BE CONSTRUCTED USING THE MATERIALS SPECIFIED ON THIS DRAWING. GEOTEXTILE SHALL BE KEYED IN AT LEAST 6" ON THE UPSTREAM SIDE OF THE OUTLET.
4. WARNING SIGNS AND SAFETY FENCE SHALL BE PLACED AROUND THE TRAPS AND MAINTAINED OVER THE LIFE OF THE BASIN.
5. AFTER THE BASIN IS NO LONGER NEEDED THE STRUCTURE AND ALL ASSOCIATED SEDIMENT SHALL BE REMOVED. THE BASIN SHALL BE FILLED WITH STABLE EARTH MATERIAL, COMPACTED, GRADED, AND SEEDED TO BLEND IN WITH ADJACENT LAND.

OPERATION AND MAINTENANCE:

1. THE CAPACITY AND FUNCTION OF THE SEDIMENT TRAP SHALL BE MAINTAINED BY INSPECTING ON A WEEKLY BASIS AND AFTER EACH STORM EVENT BY PERFORMING THE ACTIVITIES BEFORE.
2. SHORE UP ANY ERODING SLOPES, REMOVE WOODY VEGETATED GROWTH ON THE EMBANKMENT AND SPILLWAY AREAS, AND REMOVE ANY TRASH OR DEBRIS THAT HAVE ACCUMULATED IN THE BASIN.
3. DEWATERING OUTLETS SHALL BE REGULARLY CHECK THAT THEY ARE PERFORMING AS INTENDED.
4. REMOVE SEDIMENT AND RESTORE BASIN BACK TO ITS INTENDED DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO THE TOP OF THE SEDIMENT STORAGE ZONE. THIS ELEVATION SHALL BE MARKED WITH A STAKE NEAR THE CENTER OF THE BASIN

G SEDIMENT TRAP
NOT TO SCALE

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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

EROSION CONTROL DETAILS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	7/17/2025
DRAWN BY:	HSR
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PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	ANDREA TAGLIONE 614-981-2815 ANDREA.TAGLIONE@ADSPIPE.COM
ADS SALES REP:	JOHN MCGEORGE 614-578-1561 JOHN.MCGEORGE@ADSPIPE.COM
PROJECT NO:	S473106

Advanced Drainage Systems, Inc.

SiteAssist®
FOR STORMTECH
INSTALLATION INSTRUCTIONS
VISIT OUR WEBSITE

LIU TRAIL 7192 DUBLIN RD.

DUBLIN, OH

SC-800 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-800.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 750 LBS/FT/%, THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-800 SYSTEM

1. STORMTECH SC-800 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 3" (75 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-800 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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PROPOSED LAYOUT

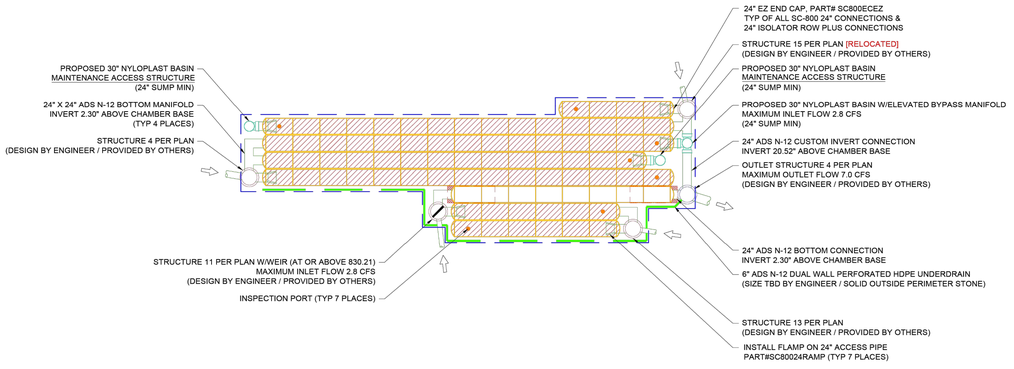
83	STORMTECH SC-800 CHAMBERS
16	STORMTECH SC-800 END CAPS
12	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
8,427	**INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)**
5058	**INSTALLED SYSTEM WATER QUALITY VOLUME (CF) BELOW INVERT 830.21 (PERIMETER STONE INCLUDED)**
4.5	**INSTALLED SYSTEM WATER QUALITY FLOW RATE (CFS)**
3455	SYSTEM AREA (ft²)
306	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS

839.25	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
833.00	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
832.50	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
832.50	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
832.50	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
832.25	TOP OF STONE
831.25	TOP OF SC-800 CHAMBER
830.21	24" CUSTOM INVERT PIPE (WQv INVERT)
828.69	24" BOTTOM MANIFOLD/CONNECTION INVERT
828.69	24" ISOLATOR ROW PLUS CONNECTION INVERT
828.50	BOTTOM OF SC-800 CHAMBER
828.00	UNDERDRAIN INVERT
828.00	BOTTOM OF STONE

NOTES

- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- **NOT FOR CONSTRUCTION**: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.



ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 12.5' OF ADSPLUS625 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

LIU TRAIL
7192 DUBLIN RD.
DUBLIN, OH

DATE: 06-17-25
PROJECT #: S473106
DRAWN: TSG
CHECKED: JPR

DATE	DWN	CHK

StormTech® Chamber System

4640 TRUEMAN BLVD
HILLIARD, OH 43026

0 20' 40'

SHEET 2 OF 7

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS BY OTHERS. IT IS THE DIRECTION OF THE PROJECT OWNER'S ENGINEER OF RECORD TO REVIEW ALL SITE, GRADING, AND UTILITY DRAWINGS TO ENSURE THAT THE PRODUCTS DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS. PRIOR APPROVAL FOR SHALL REVIEW THE DRAWING PRIOR TO BEGINNING AND/OR CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE END USER TO ENSURE THAT THE PRODUCTS DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 2:05 PM EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\CONSITE CDS\2024.00690 STM ADS SPECS.DWG

24-005-RES

AMERICAN STRUCTUREPOINT INC.
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TEL 614.901.2235 | FAX 614.901.2236
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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

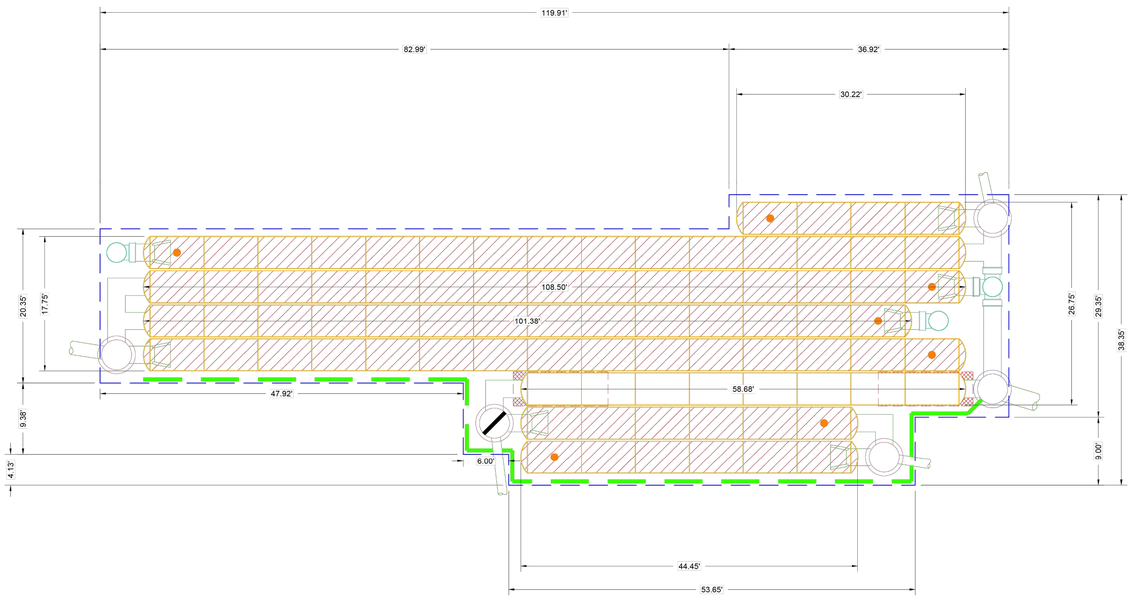
UNDERGROUND DETENTION DETAILS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

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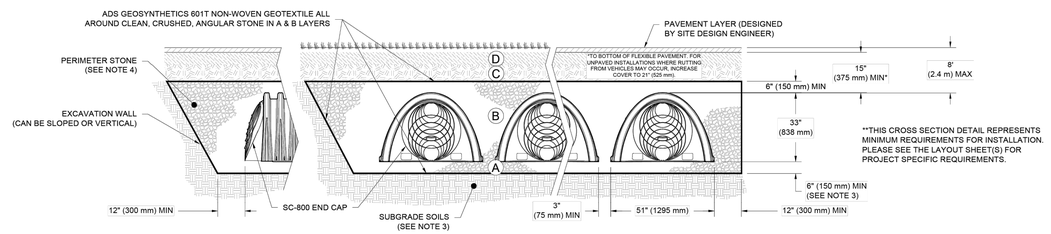
16/25



ACCEPTABLE FILL MATERIALS: STORMTECH SC-800 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 15" (375 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-800 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2" (50 mm).
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 750 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

LIU TRAIL
7192 DUBLIN RD.
DUBLIN, OH

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DATE	DWN	CHK

StormTech® Chamber System

4640 TRUEMAN BLVD
HILLIARD, OH 43026

0 10' 20'

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SHEET 3 OF 7

LIU TRAIL
7192 DUBLIN RD.
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SHEET 4 OF 7

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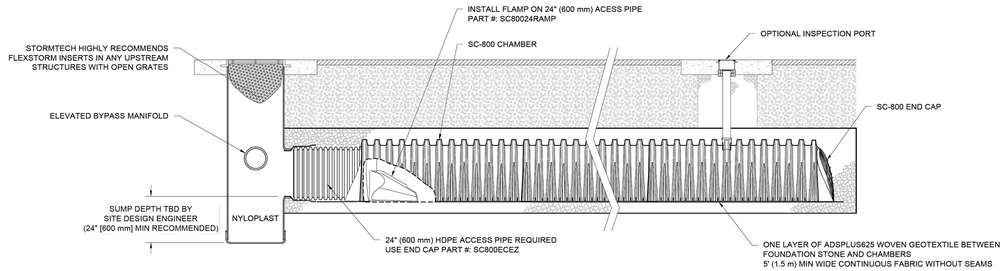
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SC-800 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

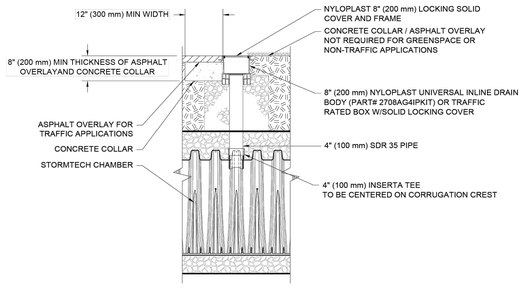
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

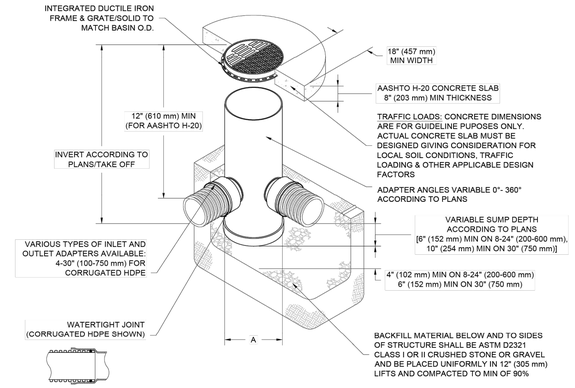
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4" PVC INSPECTION PORT DETAIL
(SC SERIES CHAMBER)
NTS

NYLOPLAST DRAIN BASIN
NTS

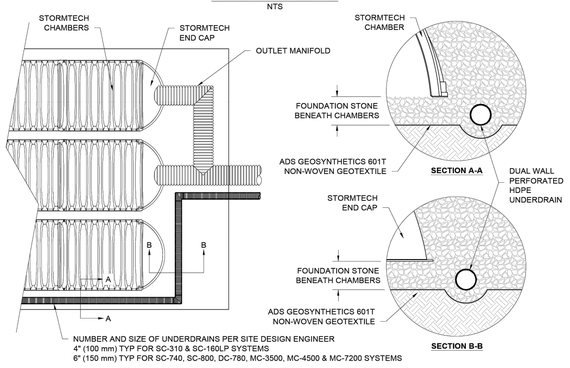


NOTES

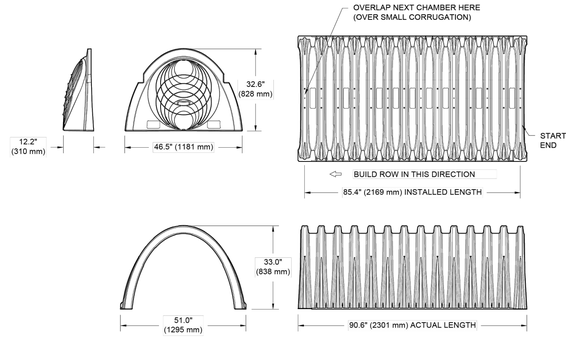
1. 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
2. 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
5. FOR COMPLETE DESIGN AND PRODUCT INFORMATION: **WWW.NYLOPLAST-US.COM**
6. TO ORDER CALL: **800-821-6710**

A	PART #	GRATE/SOLID COVER OPTIONS		
8" (200 mm)	2808AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20	STANDARD AASHTO H-20	SOLID AASHTO H-20

UNDERDRAIN DETAIL
NTS



SC-800 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 33.0" X 85.4"	(1295 mm X 838 mm X 2169 mm)
CHAMBER STORAGE	50.6 CUBIC FEET	(1.43 m³)
MINIMUM INSTALLED STORAGE*	78.4 CUBIC FEET	(2.22 m³)
WEIGHT	81.8 lbs.	(37.1 kg)

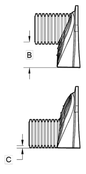
NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	46.5" X 32.6" X 10.5"	(1181 mm X 828 mm X 267 mm)
END CAP STORAGE	3.4 CUBIC FEET	(0.09 m³)
MINIMUM INSTALLED STORAGE**	14.7 CUBIC FEET	(0.42 m³)
WEIGHT	15.7 lbs.	(7.1 kg)

* ASSUMES 6" (150 mm) STONE ABOVE AND BELOW CHAMBER, 3" (75 mm) BETWEEN CHAMBERS
**ASSUMES 6" (150 mm) STONE ABOVE AND BELOW END CAPS, 3" (75 mm) BETWEEN ROWS, 12" (300 mm) BEYOND END CAPS

PRE-CORED HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "BPC"
PRE-CORED HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "TPC"

PART #	STUB	B	C
SC800EPE06TPC	6" (150 mm)	21.4" (544 mm)	---
SC800EPE06BPC		---	0.9" (23 mm)
SC800EPE08TPC	8" (200 mm)	19.2" (488 mm)	---
SC800EPE08BPC		---	1.0" (25 mm)
SC800EPE10TPC	10" (250 mm)	17.0" (432 mm)	---
SC800EPE10BPC		---	1.2" (30 mm)
SC800EPE12TPC	12" (300 mm)	14.4" (366 mm)	---
SC800EPE12BPC		---	1.6" (41 mm)
SC800EPE15TPC	15" (375 mm)	11.3" (287 mm)	---
SC800EPE15BPC		---	1.7" (43 mm)
SC800EPE18TPC	18" (450 mm)	8.0" (203 mm)	---
SC800EPE18BPC		---	2.0" (51 mm)
SC800ECEZ	24" (600 mm)	---	2.3" (58 mm)



NOTE: ALL DIMENSIONS ARE NOMINAL

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StormTech® Chamber System

4640 TRUEMAN BLVD
HILLIARD, OH 43026

ADS

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5 SHEET OF 7

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DUBLIN, OH
DATE: 06-17-25
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Nyloplast®

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7 SHEET OF 7

LIU TRAIL
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6 SHEET OF 7

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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
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CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

UNDERGROUND DETENTION DETAILS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

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24-005-RES

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TREE TO BE PRESERVED
CIRCLE REPRESENTS THE CRITICAL ROOT ZONE. TREE PROTECTION FENCE TO BE PLACED AT CRITICAL ROOT ZONE.

TREE TO BE REMOVED. REFER TO SCHEDULE ON SHEET 12.

GALWAY ESTATES SUBDIVISION
P.B. 89, P.G. 55

LOT 7

LOT 6

LOT 1
LUCIUS R. MITCHELL'S SCIOTO SHORES
P.B. 18, P.G. 37

LOT 42

DUBLIN RD

FM DUBLIN ROAD
(VARIABLE WIDTH PUBLIC)

RESERVE "D"

LOW AREA

3" CAST IRON EXPOSED PIPE

6" CAST IRON EXPOSED PIPE

12" SPP
765-SF

6" CRT. SPP
POSSIBLE DRAWING
LID & 6" RISER

500-YR FLOODPLAIN

100-YR FLOODPLAIN

ZONE AE

FLOODWAY

NORTH

0 40 80 120 feet

SCALE: 1" = 40'

24-005-RES

01.27.25

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TREE PRESERVATION AND REPLACEMENT

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DATE:	10/1/2025
DRAWN BY:	PWJ
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JOB NUMBER:	2024.00690

STATE OF OHIO
KYLE A. ADAMS 1220
REGISTERED LANDSCAPE ARCHITECT

19/25

PLOT SCALE: 1:1 EDIT DATE: 10/1/25 - 10:52 AM EDITED BY: PJONES DRAWING FILE: O:\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690 LP.DWG

EXISTING TREES

7192 Dublin Road - Dublin

TREE NUMBER	SIZE	SPECIES	CONDITION	STATUS	PRIORITY 3		PRIORITY 2		PRIORITY 1		LANDMARK		REMARKS
					PRESERVE	REMOVE	PRESERVE	REMOVE	PRESERVE	REMOVE	PRESERVE	REMOVE	
1	18	DOGWOOD	GOOD	REMOVE						18			
2	20	RED CEDAR	FAIR	REMOVE						20			
3	15	RED CEDAR	POOR	REMOVE									
4	30	SPRUCE	GOOD	REMOVE								30	
5	22	CATALPA	GOOD	REMOVE		22							
6	29	MAPLE	FAIR	REMOVE								29	MULTI-STEM
7	60	MAPLE	FAIR	REMOVE								60	MULTI-STEM
8	15	MAPLE	FAIR	REMOVE				15					
9	8	MAPLE	POOR	REMOVE									
10	17	HACKBERRY	FAIR	REMOVE				17					
11	21	WALNUT	FAIR	REMOVE						21			
12	10	CHERRY	POOR	REMOVE									
13	22	CATALPA	GOOD	REMOVE		22							
14	16	ELM	FAIR	REMOVE				16					
15	102	HACKBERRY	FAIR	REMOVE								102	
16	15	HACKBERRY	FAIR	REMOVE				15					
17	8	CATALPA	FAIR	REMOVE		8							
18	6	CATALPA	FAIR	REMOVE		6						9	
19	24	CATALPA	FAIR	REMOVE								24	
20	11	LOCUST	FAIR	REMOVE				11					
21	6	CATALPA	FAIR	REMOVE		6							
22	7	WALNUT	FAIR	PRESERVE			7						
23	14	CATALPA	FAIR	PRESERVE	14								
24	23	OAK	FAIR	REMOVE						23			
25	24	OAK	FAIR	REMOVE								24	
26	44	MAPLE	GOOD	PRESERVE							44		
27	27	HICKORY	GOOD	PRESERVE							27		
28	35	HICKORY	GOOD	PRESERVE							35		
29	20	OAK	GOOD	PRESERVE					20				
30	80	MAPLE	FAIR	PRESERVE							80		
31	17	MULBERRY	FAIR	PRESERVE	17								
32	17	MAPLE	FAIR	PRESERVE			17						
33	15	HACKBERRY	POOR	PRESERVE									
34	15	MAPLE	POOR	PRESERVE									
35	13	SPRUCE	FAIR	PRESERVE			13						
36	19	PINE	GOOD	PRESERVE					19				
37	15	MULBERRY	FAIR	PRESERVE	15								
38	14	PINE	FAIR	PRESERVE			14						
39	34	WALNUT	FAIR	PRESERVE							34		
40	28	MAPLE	FAIR	PRESERVE							28		
41	17	MAPLE	FAIR	PRESERVE			17						
42	14	WALNUT	FAIR	PRESERVE			14						
43	15	MAPLE	FAIR	PRESERVE			15						
44	15	WALNUT	FAIR	PRESERVE			15						
45	11	PINE	FAIR	PRESERVE			11						
46	10	MAPLE	FAIR	PRESERVE			10						
47	14	PINE	GOOD	PRESERVE			14						
48	19	SPRUCE	POOR	PRESERVE									
49	17	MAPLE	FAIR	PRESERVE			17						
50	25	SPRUCE	FAIR	PRESERVE							25		
51	11	MAPLE	POOR	PRESERVE									
52	12	BOXELDER	POOR	PRESERVE					12				
53	12	SPRUCE	POOR	PRESERVE									
54	16	PINE	POOR	PRESERVE									
55	27	HICKORY	GOOD	PRESERVE					27				
56	13	PINE	FAIR	REMOVE				13					
57	6	HACKBERRY	FAIR	REMOVE				6					
58	7	MAPLE	FAIR	REMOVE				7					
59	16	CHERRY	FAIR	PRESERVE	16								
60	13	MAPLE	FAIR	REMOVE				13					
61	7	MAPLE	FAIR	REMOVE				7					
62	9	MAPLE	FAIR	REMOVE				9					
63	6	MAPLE	FAIR	PRESERVE			6						
64	8	PINE	POOR	REMOVE									
65	7	MAPLE	FAIR	REMOVE				7					
66	9	PINE	POOR	REMOVE									
67	34	WALNUT	FAIR	REMOVE								34	
68	20	MAPLE	FAIR	REMOVE						20			
69	46	MAPLE	FAIR	REMOVE								46	
70	36	MAPLE	FAIR	REMOVE								36	
71	21	LOCUST	GOOD	REMOVE						21			
72	19	LOCUST	GOOD	REMOVE						19			
73	21	LOCUST	GOOD	REMOVE						21			
74	22	LOCUST	GOOD	PRESERVE					22				
75	7	WALNUT	GOOD	PRESERVE			7						
76	26	MAPLE	FAIR	REMOVE								26	
77	16	MAPLE	GOOD	REMOVE				16					
78	27	MAPLE	GOOD	PRESERVE							27		
79	46	CHERRY	FAIR	PRESERVE							46		MULTI-STEM
80	8	CHERRY	POOR	REMOVE									
81	14	PINE	FAIR	REMOVE				14					
82	11	WALNUT	FAIR	REMOVE				11					
83	11	PINE	POOR	REMOVE									
84	19	MAPLE	GOOD	PRESERVE	19								
85	27	WALNUT	FAIR	PRESERVE							27		
86	10	HACKBERRY	FAIR	REMOVE				10					
87	9	HACKBERRY	FAIR	REMOVE				9					
88	17	HACKBERRY	POOR	PRESERVE									
89	6	MAPLE	FAIR	PRESERVE			6						
90	13	MAPLE	FAIR	PRESERVE			13						
91	8	MAPLE	FAIR	PRESERVE			8						
92	7	MAPLE	FAIR	PRESERVE			7						
93	11	MAPLE	GOOD	PRESERVE			11						
94	42	HACKBERRY	POOR	PRESERVE									
95	18	HACKBERRY	POOR	PRESERVE									
96	16	MAPLE	FAIR	REMOVE				16					
97	19	HACKBERRY	FAIR	REMOVE						19			
98	12	MAPLE	FAIR	REMOVE				12					
99	10	MAPLE	POOR	REMOVE									
100	47	HACKBERRY	POOR	REMOVE									
101	21	WALNUT	FAIR	REMOVE						21			
102	10	MAPLE	FAIR	REMOVE				10					
103	10	HACKBERRY	POOR	REMOVE									
104	10	HACKBERRY	FAIR	REMOVE				10					
105	8	MAPLE	POOR	REMOVE									
106	19	MAPLE	FAIR	REMOVE						19			
107	11	MAPLE	FAIR	REMOVE				11					
108	11	HACKBERRY	FAIR	PRESERVE			11						
109	15	MAPLE	FAIR	PRESERVE			15						
110	16	MAPLE	FAIR	PRESERVE			16						
111	16	WALNUT	FAIR	PRESERVE			16						
112	41	HACKBERRY	FAIR	PRESERVE							41		MULTI-STEM
113	26	MAPLE	FAIR	PRESERVE							26		
114	24	HACKBERRY	FAIR	PRESERVE							24		
115	8	MAPLE	FAIR	REMOVE				8					
116	14	MAPLE	FAIR	PRESERVE			14						
117	21	MAPLE	POOR	REMOVE									
118	13	MAPLE	FAIR	PRESERVE			13						
119	8	MAPLE	POOR	PRESERVE	8								
120	12	MAPLE	FAIR	PRESERVE			12						
121	16	MAPLE	FAIR	PRESERVE			16						
122	7	HACKBERRY	FAIR	PRESERVE			7						
123	8	HACKBERRY	FAIR	PRESERVE			8						
124	11	MAPLE	FAIR	REMOVE				11					
125	21	HACKBERRY	FAIR	PRESERVE					21				
126	20	HACKBERRY	FAIR	PRESERVE					20				
127	24	HACKBERRY	FAIR	PRESERVE							24		
128	22	HACKBERRY	FAIR	PRESERVE					22				
129	46	HICKORY	POOR	REMOVE									
130	39	SPRUCE	GOOD	REMOVE								39	
131	27	SPRUCE	FAIR	REMOVE								27	
132	30	SPRUCE	FAIR	REMOVE								30	
133	15	PINE	FAIR	REMOVE				15					
134	17	PINE	FAIR	REMOVE				17					
135	10	PINE	FAIR	REMOVE				10					
136	14	PINE	FAIR	REMOVE				14					
137	15	PINE	DEAD	REMOVE									
138	39	ELM	POOR	REMOVE									
139	26	PEAR	FAIR	REMOVE								26	
140	90	MAPLE	FAIR	REMOVE								90	MULTI-STEM
141	14	CATALPA	FAIR	PRESERVE	14								
142	14	WALNUT	FAIR	PRESERVE			14						
143	8	MULBERRY	POOR	PRESERVE									
144	9	WALNUT	POOR	PRESERVE									
145	9	CATALPA	POOR	PRESERVE									
146	11	WALNUT	FAIR	PRESERVE			11						
147	12	WALNUT	FAIR	PRESERVE			12						
148	11	HACKBERRY	FAIR	PRESERVE			11						
149	21	CATALPA	FAIR	PRESERVE	21								
150	8	HACKBERRY	FAIR	PRESERVE			8						
151	8	HACKBERRY	FAIR	PRESERVE			8						
152	49	COTTONWOOD	FAIR	REMOVE								49	
153	14	COTTONWOOD	FAIR	REMOVE		14							
154	39	ELM	POOR	REMOVE									
155	46	ELM	POOR	REMOVE									
156	8	WALNUT	FAIR	PRESERVE			8						
157	11	WALNUT	FAIR	PRESERVE			11						
158	11	WALNUT	FAIR	PRESERVE			11						
159	11	CHERRY	POOR	PRESERVE									
160	25	MAPLE	POOR	REMOVE									
161	19	MAPLE	FAIR	PRESERVE					19				
162	23	MAPLE	FAIR	PRESERVE					23				
163	23	MAPLE	GOOD	REMOVE						23			
164	30	HICKORY	GOOD	PRESERVE							30		
165	31	MAPLE	GOOD	PRESERVE							31		
166	11	PINE	FAIR	REMOVE				11					
167	24	PINE	FAIR	PRESERVE							24		
168	39	MAPLE	FAIR	PRESERVE							39		
169	21	PINE	GOOD	REMOVE						21			
170	15	MAPLE	FAIR	PRESERVE				15					
171	15	MAPLE	FAIR	PRESERVE				15					
172	8	HACKBERRY	FAIR	PRESERVE				8					
173	22	MAPLE	FAIR	PRESERVE					22				
174	6	MAPLE	GOOD	PRESERVE				6					
175	13	MAPLE	GOOD	PRESERVE				13					
176	17	HACKBERRY	FAIR	PRESERVE				17					
177	12	MAPLE	FAIR	PRESERVE				12					
178	9	MAPLE	FAIR	PRESERVE				9					
179	8	MAPLE	FAIR	PRESERVE				8					
180	22	CHERRY	FAIR	PRESERVE	22								
181	7	HACKBERRY	FAIR	PRESERVE				7					
182	12	MAPLE	FAIR	PRESERVE				12					
183	14	WALNUT	FAIR	PRESERVE				14					
184	10	MAPLE	FAIR	PRESERVE				10					
185	11	MAPLE	FAIR	PRESERVE				11					
186	19	MAPLE	FAIR	PRESERVE					19				
187	16	LOCUST	GOOD	PRESERVE				16					
188	9	HACKBERRY	GOOD	PRESERVE				9					
189	8	MAPLE	GOOD	PRESERVE				8					
190	22	WALNUT	FAIR	PRESERVE					22				
191	18	WALNUT	FAIR	PRESERVE					18				
192	11	HACKBERRY	FAIR	PRESERVE				11					
193	10	MAPLE	GOOD	PRESERVE				10					
194	19	MAPLE	FAIR	PRESERVE					19				
195	18	SPRUCE	FAIR	PRESERVE					18				
196	21	SPRUCE	FAIR	PRESERVE					21				
197	21	SPRUCE	FAIR	PRESERVE					21				
198	15	HACKBERRY	FAIR	PRESERVE				15					
199	11	WALNUT	FAIR	PRESERVE				11					
200	18	WALNUT	GOOD	PRESERVE					18				
201	14	HACKBERRY	FAIR	PRESERVE				14					
202	9	MAPLE	GOOD	PRESERVE				9					
203	18	WALNUT	GOOD	PRESERVE					18				
204	6	REDBUD	GOOD	PRESERVE				6					
205	14	PEAR	FAIR	PRESERVE	14								
206	20	PEAR	GOOD	PRESERVE	20								
207	22	PEAR	FAIR	PRESERVE	22								
208	32	ELM	POOR	PRESERVE									
209	18	COTTONWOOD	FAIR	REMOVE		18							
210	26	HACKBERRY	GOOD	PRESERVE							26		
211	52	OAK	GOOD	PRESERVE							52		
212	24	SYCAMORE	GOOD	PRESERVE							24		
213	32	OAK	GOOD	PRESERVE							32		
214	27	OAK	GOOD	PRESERVE							27		
215	23	OAK	GOOD	PRESERVE					23				
216	18	OAK	GOOD	PRESERVE					18				
TOTALS	4111								442	266	773	672	
						7 TREE		*29 TREES*		13 TREES		672 INCHES	

TREE REPLACEMENT NOTES:
TREE PROTECTION FENCE TO BE LOCATED WHERE THE LIMIT OF CONSTRUCTION IS ADJACENT TO TREES TO BE PRESERVED. THE TREE PROTECTION FENCE IS TO BE LOCATED TO PROTECT THE CRITICAL ROOT ZONE AS DEFINED AS THE AREA INSCRIBED BY AN IMAGINARY LINE ON THE GROUND BENEATH A TREE HAVING ITS CENTER POINT AT THE CENTER OF THE TRUNK OF THE TREE AND HAVING A RADIUS EQUAL TO ONE FOOT FOR EVERY INCH OF DIAMETER BREAST HEIGHT.

PRIORITY 3 TREES REPLACE AT 1 TO 1 BASIS WITH A 2" CAL TREE. (7) TREES REQUIRED (7) 2" CALTREES TO BE TREES PROVIDED

PRIORITY 2 TREES REPLACE AT 2 TO 1 BASIS WITH A 2" CAL. TREE. (58) 2" TREES REQUIRED (58) 2" CAL. TREES TO BE PROVIDED

PRIORITY 1 TREES REPLACE AT 3 TO 1 BASIS WITH A 2" CAL. TREE (39) 2" CAL. TREES REQUIRED. (39) 2" CAL. TREES TO BE PROVIDED

LANDMARK TREES REPLACE INCH FOR INCH WITH 2.5" CAL TREES. 672 / 2.5 = 269 TREES REQUIRED.

(26) TREES PLANTED ON SITE AND REMAINDER TO BE PAID INTO THE DUBLIN TREE FUND.

ZONING NOTES:
153.133 (D)(2)(b)

Use	Requirement
Single-Family	Front yard trees are required on every single family lot at the quantity and size specified in the following table. The trees to be planted shall be an approved front yard tree as listed in Appendix H (Approved Front Yard Trees for Dublin, Ohio) and have a minimum truck caliper of no less than 2 inches. Trees shall be located in front of or along any front-facing facade of the home, no closer than three feet to a side property line. Corner and through lots shall meet these requirements on all street frontages.

Lot Width	Front Building Setback	Tree Size and Quantity
Up to 59.9 feet	Less than 20 feet	1 small tree
	20 feet or more	1 medium tree
60-90.9 feet	Less than 20 feet	1 medium tree plus 1 small tree
	20 feet or more	1 large tree plus 1 medium tree
91 feet or more	Less than 20 feet	1 large tree plus 2 trees of any size
	20 feet or more	2 large tree plus 1 tree of any size

FRONT YARD TREES ARE SHOWN FOR ZONING PURPOSES ONLY AND ARE TO BE LOCATED WITH THE FINAL RESIDENTIAL SITE DESIGN.

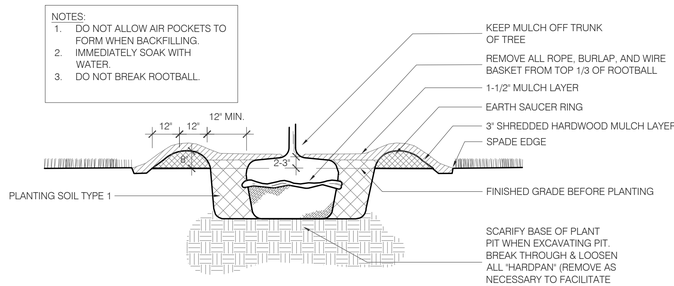
153.133 (C)
Screening For Service Structures. Service structures shall be screened in all zoning districts. For the purposes of this section, service structures shall include but not be limited to loading docks, storage tanks, dumpsters, electrical transformers, utility vaults which extend above the surface, cooling towers, roof top units and other equipment or elements providing service to a building or a site. Structures may be grouped together; however, screening height shall be based upon the tallest of the structures. Roof top mechanical units must be screened to the full height of the unit

SERVICE UNITS ARE NOT SCREENED AS PART OF THIS SUBMISSION BUT NOTED TO BE PROVIDED AS NEEDED.

153.134 STREET TREE AND PUBLIC TREE REQUIREMENTS.
The planting of street trees shall be required at the time a parcel is developed or redeveloped, in all zoning districts, and in accordance with the following regulations.
(Ord. 66-93, passed 9-20-93)
(A) Requirements for trees located on city-owned public property. The following are requirements for the planting, pruning and removal of trees within city-owned property. For the purposes of this section, city-owned property shall include all public ways, streets, alleys, parks or other property owned by the Municipality.
(1) Requirements. It shall be required that all subdividers or developers plant trees along public streets of their developments in such a manner, type, quantity and location as approved by the Planning and Zoning Commission and as defined by the following conditions, and that any undeveloped street or existing street with undeveloped frontage shall conform to these requirements at the time of the development. Final tree locations may be adjusted by the city as unusual conditions may warrant.
(a) The tree to be planted shall be an approved street tree as listed in Appendix E (Approved Street Trees for Dublin, Ohio).
(b) The minimum spacing between this and other trees shall be 40 feet for large trees, 30 feet for medium trees and 20 feet for small trees. See definition below.
(c) The maximum spacing between trees shall be 45 feet for large trees, 35 feet for medium trees, and 25 feet for small trees. Spacing may be adjusted for columnar trees, as approved by City Forestry Division.

GENERAL NOTES:
1. ALL TREES NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY TREE PROTECTION FENCING PLACED AT CRITICAL ROOT ZONE, OR 15' FROM THE TRUNK WHICHEVER IS GREATER.
2. OWNER SHALL BE RESPONSIBLE FOE THE CONSTRUCTION, ERECTION, AND MAINTENANCE OF THE PROTECTION FENCING. FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION.
3. ANY CHANGE IN PLACEMENT OF FENCING MUST BE APPROVED BY CITY STAFF.
4. IT IS UNLAWFUL TO FAIL TO ABIDE BY THE TREE PRESERVATION PLAN OR TREE REMOVAL PERMIT.
5. UTILITY LOCATIONS ARE AS IDENTIFIED. ANY FIELD CHANGES THAT AFFECTS THE LOCATION OF THE TREE PROTECTION FENCING WILL BE REFLECTED ON REVISED PLANS AND COORDINATED WITH THE DIVISION OF PLANNING.
6. CRITICAL ROOT ZONE IS THE AREA INSCRIBED BY AN IMAGINARY LINE ON THE GROUND BENEATH A TREE HAVING ITS CENTER POINT AT THE CENTER OF THE TRUNK AND HAVING A RADIUS EQUAL TO ONE FOOT FOR EVERY INCH OF DIAMETER CHEST HEIGHT.
7. A TREE REMOVAL PERMIT MUST BE OBTAINED FROM THE PLANNING DIVISION PRIOR TO THE REMOVAL OF ANY TREES.
8. ROOT PRUNING WILL BE PERFORMED ON ANY ROOT DAMAGED WITHIN THE CRITICAL ROOT ZONE AS PER THE INTERNATIONAL SOCIETY OF ARBORICULTURE ACCEPTED STANDARDS.
9. NO WORK SHALL BEGIN UNTIL PLAN APPROVAL AND FIELD VERIFICATION BY CITY STAFF.
10. STREET TREES AND FRONT YARD TREES ARE TO BE FIELD COORDINATED WITH CITY ARBORIST.

NOTES:
1. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
2. IMMEDIATELY SOAK WITH WATER.
3. DO NOT BREAK ROOTBALL.



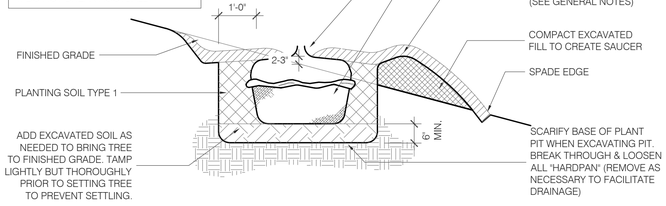
PLANTING PROCEDURE

1. EXCAVATE ROOTBALL PIT
2. SET TREE SUCH THAT TOP OF ROOTBALL IS 2-3" HIGHER THAN FINISH GRADE.
3. REMOVE ALL TWINE, ROPE, WIRE BASKET, AND BURLAP FROM TOP 1/3 OF ROOTBALL & EXPOSE ROOT FLARE.
4. BACKFILL WITH SOIL MIX & "WATER IN"
5. COMPLETE BACKFILLING, CONSTRUCT SAUCER, SPADE-EDGE & ADD MULCH
6. STAKE & GUY SECURELY (AS REQUIRED)
7. INSTALL WATERING DEVICE (AS REQUIRED)

1 TREE PLANTING - LEVEL AREA

NTS

NOTES:
1. SEE NOTES FOR DRAINAGE REQUIREMENTS PROIR TO PLANTING
2. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING
3. IMMEDIATELY SOAK WITH WATER
4. DO NOT BREAK ROOTBALL

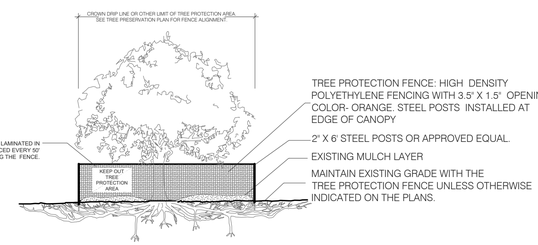


PLANTING PROCEDURE

1. EXCAVATE ROOTBALL PIT
2. SET TREE SUCH THAT TOP OF ROOTBALL IS 2-3" HIGHER THAN FINISH GRADE.
3. REMOVE ALL TWINE, ROPE, WIRE BASKET, AND BURLAP FROM TOP 1/3 OF ROOTBALL & EXPOSE ROOT FLARE.
4. BACKFILL WITH SOIL MIX & "WATER IN"
5. COMPLETE BACKFILLING, CONSTRUCT SAUCER, SPADE-EDGE & ADD MULCH
6. STAKE & GUY SECURELY (AS REQUIRED)
7. INSTALL WATERING DEVICE (AS REQUIRED)

2 TREE PLANTING - ON SLOPE

NTS



3 TREE PROTECTION DETAIL

NTS

AMERICAN STRUCTUREPOINT INC
2550 Corporate Exchange Dr. Ste 300 | Columbus, Ohio 43231
TEL 614.901.2235 | FAX 614.901.2236
www.structurepoint.com

PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

TREE PRESERVATION SCHEDULE & DETAILS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	10/1/2025
DRAWN BY:	PWJ
CHECKED BY:	KAA
JOB NUMBER:	2024.00690

STATE OF OHIO
KYLE A. ADAMS 1220
REGISTERED LANDSCAPE ARCHITECT
01.27.25

24-005-RES

20/25

PLOT SCALE: 1:1 EDIT DATE: 10/1/25 - 10:52 AM EDITED BY: PJONES DRAWING FILE: C:\2024\00690\D_DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690 LP.DWG

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	COND.	SIZE	SPACING
SHADE TREES						
ASG	9	Acer saccharum `Green Mountain` TM	Green Mountain Sugar Maple	B&B	2" Cal.	As shown
NSW	4	Nyssa sylvatica `Wildfire`	Wildfire Tupelo	B&B	2" Cal.	As Shown
QB	15	Quercus bicolor STREET TREES ARE TO BE FIELD ADJUSTED AS NEEDED BY CITY ARBORIST.	Swamp White Oak	B&B	2.5" Cal.	
QC	10	Quercus coccinea	Scarlet Oak	B&B	2" Cal.	
UX	29	Ulmus x 'Urban'	Urban Elm	B&B	2.5" Cal.	

NORTH

0 40 80 120 feet

SCALE: 1" = 40'

DUBLIN RD.

SEE ENLARGMENT 1 PAGE 19

SEE ENLARGMENT 1 PAGE 12

24-005-RES

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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

LANDSCAPE PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

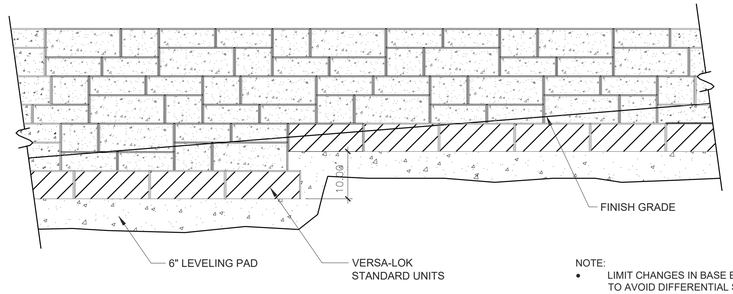
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JOB NUMBER:	2024.00690

STATE OF OHIO
KYLE A. ADAMS 1220
REGISTERED LANDSCAPE ARCHITECT
04.2.25

21/25

PLOT SCALE: 1:1 EDIT DATE: 10/1/25 - 10:52 AM EDITED BY: PJONES DRAWING FILE: O:\2024\00690\D. DRAWINGS\C\VILCONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690 LP.DWG

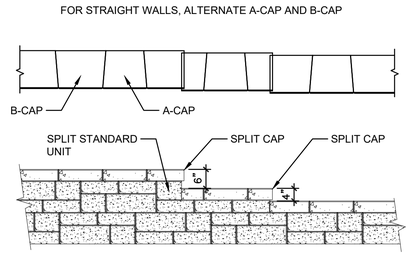
BASE STEPPING DETAIL
MOSAIC-10" STEP



NOTE:
- LIMIT CHANGES IN BASE ELEVATION TO 10" PER STEP TO AVOID DIFFERENTIAL SETTLEMENT
- STEP AS NEEDED TO MINIMIZE BURIED UNITS AND MAINTAIN MINIMUM REQUIRED EMBEDMENT
- FOR EASE OF INSTALLATION, USE VERSA-LOK STANDARD UNITS FOR THE BASE COURSE

8 VERSA-LOK BASE STEPPING
1/16" = 1'-0" P-24-DUB-10

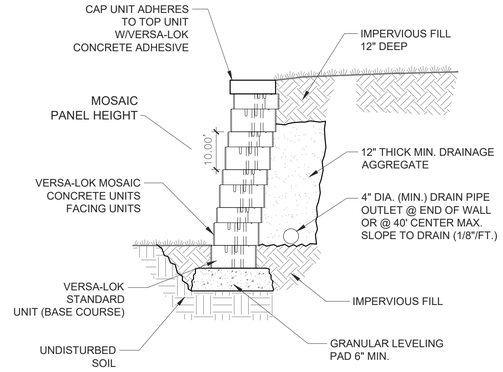
FOR STRAIGHT WALLS, ALTERNATE A-CAP AND B-CAP



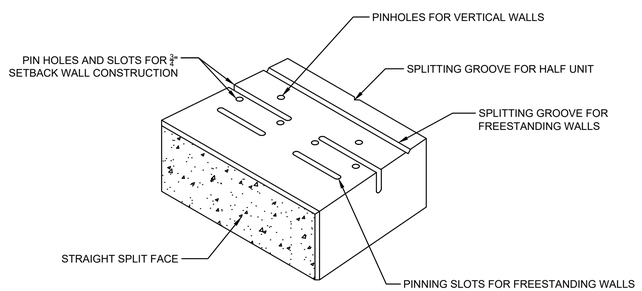
5 VERSA-LOK CAPPING DETAIL
1/2" = 1'-0" P-24-DUB-03

NOTE

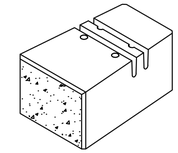
IN SOME REGIONS, ALL UNITS OF THE MOSAIC RETAINING WALL SYSTEM (COBBLE, ACCENT AND STANDARD) HAVE 1/4" SETBACK OPTION, ALLOWING A NEW VERTICAL SETBACK MOSAIC WALL. CONTACT THE LOCAL VERSA-LOK MANUFACTURER NEAREST TO YOU FOR INFORMATION.



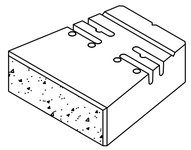
2 VERSA-LOK UNREINFORCED SECTION
1" = 20' P-24-DUB-08



TYPICAL PAVER UNIT

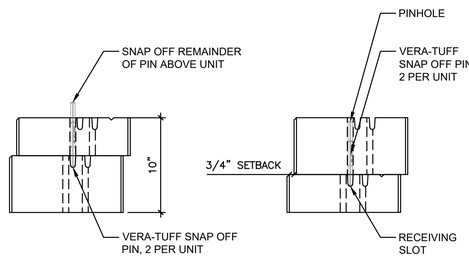


PAVER UNIT ALTERNATE A



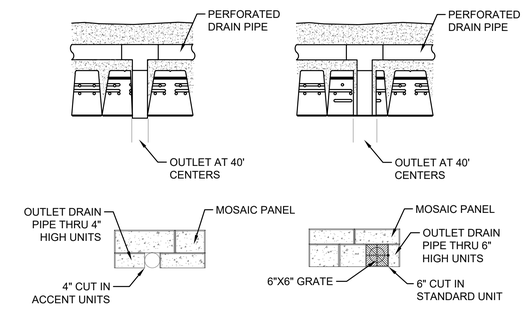
PAVER UNIT ALTERNATE B

7 VERSA-LOK MOSAIC UNITS
1/8" = 1'-0" P-24-DUB-06

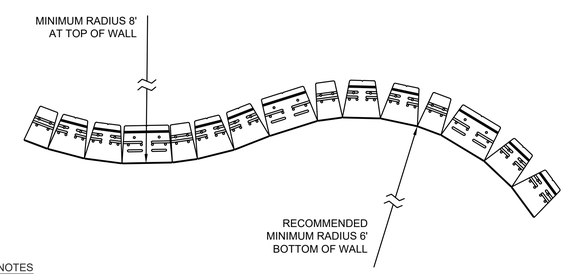


4 VERSA-LOK MOSAIC PINNING DETAIL
1 1/2" = 1'-0" P-24-DUB-04

DRAIN DETAILS
MOSAIC-WALLS OVER 4' TALL
SCALE: NONE



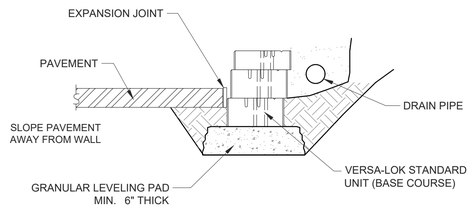
1 VERSA-LOK DRAIN
1" = 20' P-24-DUB-07



NOTES

FOLLOW GEOGRID MANUFACTURER'S INSTRUCTIONS AND REINFORCEMENT PLACEMENT AT CURVES AND CORNERS

6 VERSA-LOK CURVED WALL CAP
1/2" = 1'-0" P-24-DUB-05



3 VERSA-LOK PAVEMENT AT BASE
1/16" = 1'-0" P-24-DUB-09

AMERICAN STRUCTUREPOINT INC.
2550 Corporate Exchange Dr. Ste 300 | Columbus, Ohio 43231
TEL 614.901.2235 | FAX 614.901.2236
www.structurepoint.com

PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

LANDSCAPE DETAILS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

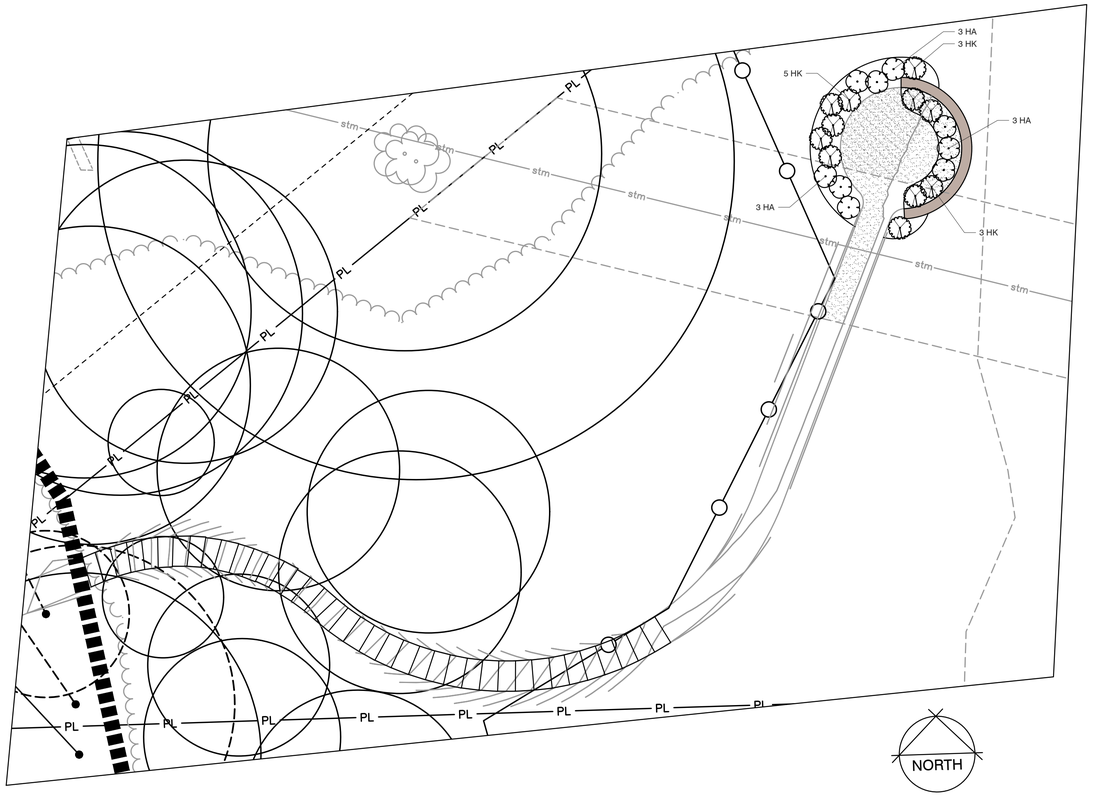
DATE:	10/1/2025
DRAWN BY:	PWJ
CHECKED BY:	KAA
JOB NUMBER:	2024.00690

STATE OF OHIO
KYLE A. ADAMS
1220
REGISTERED LANDSCAPE ARCHITECT
01.27.25

22/25

24-005-RES

PLOT SCALE: 1:1 EDIT DATE: 10/1/25 - 10:52 AM EDITED BY: PJONES DRAWING FILE O:\2024\00690\D. DRAWINGS\SC\CIVIL\CONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690 LP.DWG

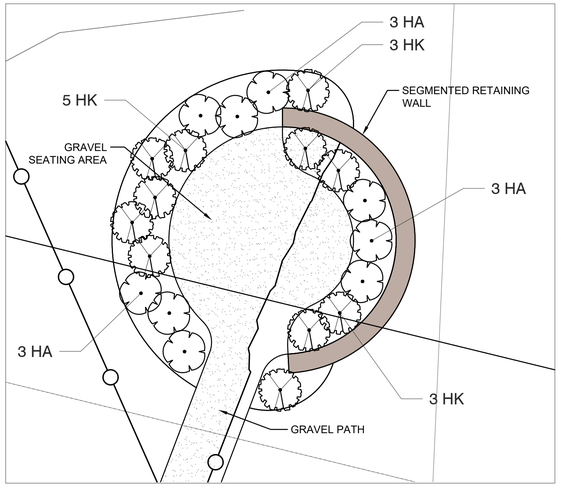


1 LANDSCAPE ENLARGEMENT

0 10 20 30 feet

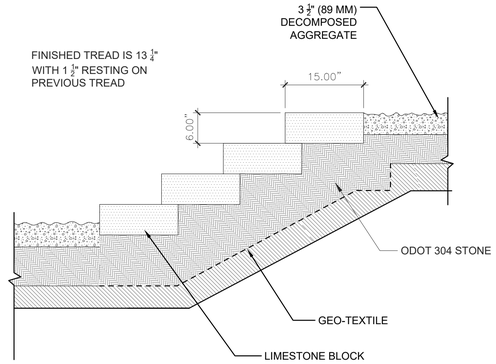
SCALE: 1" = 10'

PLANT SCHEDULE REPLACEMENT TREE					
CODE	QTY	BOTANICAL NAME	COMMON NAME	COND.	SIZE
DECIDUOUS SHRUBS					
HA	9	Hydrangea macrophylla 'All Summer Beauty'	All Summer Beauty Hydrangea	CONT	3 Gal.
PERENNIALS					
HK	11	Hosta x 'Krossa Regal'	Krossa Regal Hosta	CONT	1 GAL



4 LANDSCAPE ENLARGEMENT

3/16" = 1'-0" P-24-DUB-15



3 NATURAL CLEFT SLAB LIMESTONE STAIR

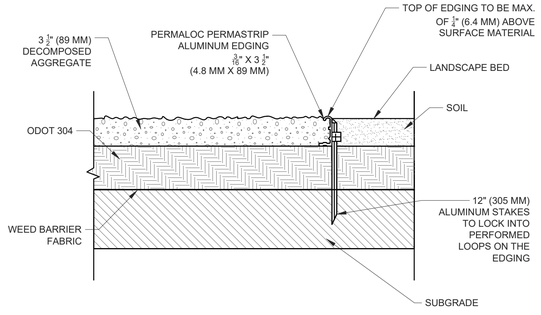
3/8" = 1'-0" P-24-DUB-14



6 DECOMPOSED_AGGREGATE_PATH



5 RETAINING_WALL



2 DECOMPOSED GRANITE MEETS GRASS FRINGE

3/4" = 1'-0" P-24-DUB-11

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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR
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DATE:	10/1/2025
DRAWN BY:	PWJ
CHECKED BY:	KAA
JOB NUMBER:	2024.00690

STATE OF OHIO
KYLE A. ADAMS
1220
REGISTERED LANDSCAPE ARCHITECT
01.27.25

23/25

24-005-RES

PLOT SCALE: 1:1 EDIT DATE: 10/1/25 - 10:52 AM EDITED BY: PJONES DRAWING FILE: O:\2024\00690\D_DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690 LP.DWG

DIVISION 04 - MASONRY

SECTION 04 4000 - STONE ASSEMBLIES, STONE CLADDING, AND LANDSCAPE STONE

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Landscape Stone.

1.2 RELATED SECTIONS

A. Section 32 00 00 - Exterior Improvements.

1.3 REFERENCES

A. ASTM International (ASTM):

1. ASTM C97 - Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone.

1.4 SUBMITTALS

A. Submit under provisions of Section 01 30 00.

B. Product Data:

1. Manufacturer's data sheets on each product to be used.
2. Preparation instructions and recommendations.
3. Storage and handling requirements and recommendations.
4. Typical installation methods.

C. Verification Samples: Two representative units of each type, size, pattern, and color.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum of five years documented experience.

B. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.

C. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

D. Provide samples of each stone type with a veriety to be representative of the entire color range.

E. Samples may be reduced in size as long as they provide enough context.

F. If sample is full size it may be used as long as approved.

1.6 PRE-INSTALLATION CONFERENCE

A. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Store and handle in strict compliance with manufacturer's written instructions and recommendations.

B. Protect from damage due to weather, excessive temperature, and construction operations.

1.8 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.9 WARRANTY

A. Manufacturer's standard limited warranty unless indicated otherwise.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Semco Stone. 6015 Taylor Rd, Columbus, OH 43230, (614) 861-4668, semcooutdoors.com

B. Requests for substitutions will be considered in accordance with the provisions of Section 01 60 00.

2.2 LANDSCAPE STONE

A. Steps:

1. Oklahoma Brown, Random Steps: Weathered edge face; natural top and bottom; brown tones; tan, auburn, and tawny; natural contour with natural and broken ends.
   a. Thickness: 5 to 7 inches
   b. Depth: 18 to 24+ inches
   c. Length: 36 to 60+ inches

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until the substrates have been properly constructed and prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.

3.2 INSTALLATION OF STEPS

A. Excavate the rough shape and dimensions of the steps and grades indicated on the drawings.

B. Construct the stairs progressively from the bottom stair to the top stair.

C. Prepare a trench base that is a minimum of 8 to 10 inches deep by 2 to 3 inches wider than the stone stair.

D. Fill the trench with 4 to 6 inches of crushed stone. Level and compact the crushed stone thoroughly with a plate compactor or hand tamper and add another 2 inches of crushed stone on top of the compacted stone.

E. Level the base course of stone and place the first stone step on the crushed stone base. Check for level front to back and side to side and adjust accordingly.

F. Place each successive stair on a base course of stone and work up to the top of the slope. Check periodically for level and grade of final stair and adjust accordingly.

3.3 CLEANING AND PROTECTION

A. Clean products in accordance with the manufacturer's recommendations.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

DIVISION 32 - EXTERIOR IMPROVEMENTS

SECTION 32 1600 - AGGREGATE SURFACING

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Cinder surfacing.

B. Crushed stone surfacing.

C. Aggregate-turf pavement.

D. Geosynthetic surface reinforcement.

1.2 RELATED REQUIREMENTS

A. Section 31 1000 - Site Clearing.

B. Section 31 2200 - Grading: Preparation of subbase.

C. Section 31 2316 - Excavation.

D. Section 31 2323 - Fill.

E. Section 32 1120 - Subbase and Aggregate Base Courses.

F. Section 32 9219 - Seeding.

1.3 PRICE AND PAYMENT PROCEDURES

A. Allowances: See Section 01 2100 - Allowances for cash, testing, and quantity allowances affecting this section.

B. Unit Prices: See Section 01 2200 - Unit Prices for additional unit price requirements.

1. Provide the work under the unit price method.
2. Measure roadways by the linear foot.

C. Alternates: See Section 01 2300 - Alternates for product alternatives affecting this section.

1.4 REFERENCE STANDARDS

A. ASTM C131/C131M - Standard Method of Test for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine; 2020.

B. ASTM C136/C136M - Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates; 2019.

C. ASTM D638 - Standard Test Method for Tensile Properties of Plastics; 2022.

D. ASTM D1603 - Standard Test Method for Carbon Black Content in Olefin Plastics; 2020.

E. ASTM D1621 - Standard Test Method for Compressive Properties of Rigid Cellular Plastics; 2016 (Reapproved 2023).

F. ASTM D4355/D4355M - Standard Test Method for Deterioration of Geotextiles by Exposure to Light, Moisture, and Heat in a Xenon Arc-Type Apparatus; 2021.

G. ASTM D4873/D4873M - Standard Guide for Identification, Storage, and Handling of Geosynthetic Rolls and Samples; 2017 (Reapproved 2021).

H. ASTM D5397 - Standard Test Method for Evaluation of Stress Crack Resistance of Polyolefin Geomembranes Using Notched Constant Tensile Load Test; 2020.

I. ASTM D6392 - Standard Test Method for Determining the Integrity of Nonreinforced Geomembrane Seams Produced Using Thermo-Fusion Methods; 2012 (Reapproved 2018).

1.5 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.

B. Geosynthetic Product Data: Indicate recycled content, ultraviolet stability, and compressive strength.

C. Manufacturer's Instructions: Include aggregate base course placement, installation procedures, and fill placement.

D. Manufacturer's qualification statement.

E. Installer's qualification statement.

F. Samples: Two full-sized sections of surface reinforcement units, or minimum 1 foot square piece of roll reinforcement, whichever is applicable.

G. Certificates: Certify that products of this section meet or exceed specified requirements.

H. Maintenance Data: Manufacturer's instructions for maintenance of turf and turf reinforcement.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.

B. Installer Qualifications: Company specializing in installing work of the type specified in this section, and with at least three years of documented experience and approved by manufacturer.

1.7 DELIVERY, STORAGE, AND HANDLING

A. See Section 01 6000 - Product Requirements for additional requirements.

B. Identify, store, and handle geosynthetics according to ASTM D4873/D4873M.

C. Protect geosynthetic materials from sunlight and other ultraviolet light sources during storage.

D. Handle geosynthetics with care and prevent dragging, dropping, or imbalanced lifting.

1.8 FIELD CONDITIONS

A. Follow recommendations of geosynthetic manufacturer.

B. Temperature Requirements: Do not place geosynthetic when ambient air or base surface temperature is less than 40 degrees F or above 140 degrees F (60 degrees C).

C. Surface Requirements: Do not place geosynthetic when the receiving surface is saturated or has ponded water.

PART 2 PRODUCTS

2.1 MATERIALS

A. Crushed Stone Surfacing: Angular crushed, washed, 1/4" inch (_____ cm) stone; free of shale, clay, friable material, and debris.

1. Basis of design, Brassfield Fines, Semco Outdoors, Gahanna, OH.
2. Apply liquid binder after compaction per manufactures instructions.

B. Landscape Edging: Permaloc PermaStrip

1. Manufacturer:
   a. Permaloc Corporation: www.permaloc.com
2. Heavy Duty L-Shaped Profile Maintenance Strip Edging: Permaloc PermaStrip, 1/8 inch (3.2mm) x 4 inch (102mm) high, extruded aluminum, 6063 alloy, T-6 hardness, maintenance strip edging for straight-line and gentle curve applications in corrugated L-shaped profile having 1.2 inch (30.5 mm) horizontal base, as manufactured by Permaloc Corporation, Holland MI 49424, telephone (800) 356-9660 or (616) 399-9600. Section shall have loops on side of section to receive stakes spaced approximately 2 feet (610 mm) apart along its length.
3. Thickness: 1/8 inch (3.2mm)
   a. IF 1/8 inch (3.2 mm) gauge section at 0.060 inch (1.52 mm) minimum thick with 0.200 inch (5.1 mm) exposed top lip.
   b. IF 3/16 inch (4.8 mm) gauge section at 0.076 inch 1.93 mm) minimum thick with 0.190 inch (4.8 mm) exposed top lip.

C. Length: 8 foot (2.44m) sections.

D. Stake: 18 inch (457mm) Stakes to interlock into section loops.

E. Finish: Mill Finish. Paint finish shall comply with AAMA 2603 for electrostatically baked on paint.

F. Aggregate Base Course: According to surface reinforcement manufacturer's recommendations.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that subgrade has been prepared correctly, is smooth, and is at proper grade and level.

B. Do not begin work until subgrade is correct.

3.2 INSTALLATION

A. Install aggregate base course according to surface reinforcement manufacturer's recommendations.

B. Spread moisture absorbent crystals evenly over surface of aggregate base course, at rate of 5 lbs/1000 sq ft; prevent wetting crystals prior to placement of aggregate-turf fill.

C. Install surface reinforcement smooth and without overlaps or wrinkles.

1. Cut sections to shape with applicable tools.
2. Interlock sections at adjacent joints.
3. Anchor sections to base course.

D. Place surfacing or aggregate-turf pavement in maximum 4 inch (100 mm) layers.

3.3 CLEANING

A. See Section 01 7419 - Construction Waste Management and Disposal for additional requirements.

B. Remove unused or stockpiled fill, base, and reinforcement.

C. Clean adjacent surfaces of excess sand, gravel, soil, and debris. Sweep broom clean.

3.4 PROTECTION

A. Protect turf from traffic other than emergency vehicles for minimum of 8 weeks, or until the root system has penetrated and established grass well below the turf reinforcement units.

END OF SECTION

SECTION 32 3223 - SEGMENTAL RETAINING WALLS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Segmental retaining walls made of modular concrete units with or without soil reinforcement.

B. Shop drawings.

1.2 REFERENCE STANDARDS

A. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.

B. ASTM D698 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft3 (600 kN-m/m3)); 2012 (Reapproved 2021).

C. FHWA NHI-10-024 - Design of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes – Volume I; 2009.

D. FHWA NHI-10-025 - Design of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes – Volume II; 2009.

E. NCMA TR-127 - Design Manual for Segmental Retaining Walls 3rd Edition; 2010 .

F. NCMA TR-160 - Seismic Design Manual for Segmental Retaining Walls; National Concrete Masonry Association; 1998.

1.3 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Segmental Retaining Wall Units:

1. Manufacturer's product data.
2. Test data on unit strength and shear resistance between units.
3. Test data on soil reinforcement connection.
4. Manufacturer's certification that units meet requirements of specification.
5. Storage and handling requirements and recommendations.
6. Installation methods.

C. Shop Drawings: Engineering drawings for installation, including elevations, large-scale details of elevations, typical sections, details, and connections, soil reinforcement, and drainage provisions.

1. Include marked up contract drawings showing exact dimensions for blocks, required coping, and other minor revisions.
2. Design Data: Submit detailed design calculations showing compliance with specified design criteria and material evaluations performed in accordance with specified design standard, signed and sealed by Design Engineer.

D. Design Engineer's Qualification Statement.

1.4 QUALITY ASSURANCE

A. Design Engineer Qualifications: Provide design by or under direct supervision of Professional Engineer experienced in the work of this section and licensed in the State in which the Project is located and:

1.5 DELIVERY, STORAGE, AND HANDLING

A. Store products above ground on wood pallets or blocking, in manufacturer's unopened packaging, until ready for installation.

B. Prevent excessive soil and mud from coming in contact with face of concrete units.

C. Protect material from damage. Do not use damaged material. Remove damaged material from the site.

D. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.6 FIELD CONDITIONS

1.7 WARRANTY

A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

B. Correct defective Work within a five year period after Date of Substantial Completion.

C. Provide five year manufacturer warranty for Segmental Retaining Wall.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Segmental Retaining Walls:

1. VERSA-LOK Retaining Wall Systems: www.versa-lok.com.
2. Substitutions: See Section 01 6000 - Product Requirements.

2.2 SEGMENTAL RETAINING WALL UNITS

A. **SRW units shall be machine-formed, Portland cement concrete blocks specifically designed for retaining wall applications. SRW units currently approved for this project are:**

1. VERSA-LOK Mosaic® Retaining Wall System that includes three unit types: VERSA-LOK Standard units, VERSA-LOK Cobble® units and VERSA-LOK Accent® units

B. Color of SRW units shall be __TBD_____.

C. Finish of SRW units shall be weathered split-face. A weathered split-face is a straight-face unit that is mechanically finished to create rounded corners and edges similar in appearance to naturally-worn stone or cobbles.

D. SRW unit face shall be of straight geometry

E. SRW unit height shall be both 4 and 6 inches. Follow Mosaic Pattern provided by manufacturer.

F. SRW units shall provide a minimum weight of 120 psf wall face area.

G. SRW units shall have a depth (front face to rear) to height ratio of 2:1, minimum.

H. SRW units shall be capable of being erected with the horizontal gap between adjacent units not exceeding 1/8 inch.

I. SRW units shall be interlocked with connection pins that provide ¾-inch setback from unit below (4- and 6-inch-high units stacked alternately, yielding an overall 8.5-degree cant from vertical).

J. SRW units shall be sound and free of cracks or other defects that would interfere with the proper placing of the unit or significantly impair the strength or permanence of the structure. Any cracks or chips observed during construction shall fall within the guidelines outlined in ASTM C 1372.

K. Concrete SRW units shall conform to the requirements of ASTM C 1372 and have a minimum net average 28 days compressive strength of 3000 psi. Compressive strength test specimens shall conform to the saw-cut coupon provisions of ASTM C 140.

L. SRW units' molded dimensions shall not differ more than ± 1/8 inch from that specified, as measured in accordance with ASTM C 140. This tolerance does not apply to architectural surfaces, such as split-faces.

2.3 SEGMENTAL RETAINING WALL UNIT CONNECTION PINS

A. SRW units shall be interlocked with VERSA-TUFF® Snap-Off connection pins, 6.8 inches in length, with a section that can snap off, yielding a 4.6-inch long pin. The pins shall consist of glass-reinforced nylon made for the expressed use with the SRW units supplied.

2.4 GEOSYNTHETIC REINFORCEMENT

A. Geosynthetic reinforcement shall consist of high-tenacity PET geogrids, HDPE geogrids, or geotextiles manufactured for soil reinforcement applications. The type, strength and placement of the geosynthetic reinforcement shall be determined by procedures outlined in this specifications and the "NCMA Design Manual for Segmental Retaining Walls." (3rd edition, 2009), and materials shall be specified by Wall Design Engineer in their final wall plants specifications. the manufacturers/suppliers of the geosynthetic reinforcement shall have demonstrated construction of similar size and types of segmental retaining walls on previous projects.

1. The geosynthetic type must be approved one week prior to bid opening. Geosynthetic types currently approved for this project are:
   a. VERSA-Grid® Geogrids

B. The type, strength and placement of the reinforcing geosynthetic shall be as determined by the Wall Design Engineer, as shown on the final, P.E.-sealed retaining wall plans.

2.5 LEVELING PAD

A. Material for leveling pad shall consist of compacted sand, gravel, or combination thereof (USCS soil types GP, GW, SP and SW) and shall be a minimum of 6 inches in depth. Lean concrete with a strength of 200-300 psi and 3 inches thick maximum may also be used as a leveling pad material. The leveling pad should extend laterally at least a distance of 6 inches from the toe and heel of the lowermost SRW unit.

2.6

A. Drainage aggregate shall be angular, clean stone or granular fill meeting the following gradation as determined in accordance with ASTM D 422:

B. Sieve Size — Percent Passing

1. 1 inch — 100
2. 3/4 inch — 75-100
3. No. 4 — 0-60
4. No. 40 — 0-50
5. No. 200 — 0-5

2.7 DRAINAGE PIPE

A. The drainage collection pipe shall be a perforated or slotted PVC, or corrugated HDPE pipe. The drainage pipe may be wrapped with a geotextile to function as a filter.

B. Drainage pipe shall be manufactured in accordance with ASTM F 405 or ASTM F 758.

2.8 REINFORCED BACKFILL SOIL

A. The reinforced soil material shall be free of debris. Unless otherwise noted on the final, P.E.-sealed, retaining wall plans prepared by the Wall Design Engineer, the reinforced material shall consist of the inorganic USCS soil types GP, GW, SW, SP and SM, meeting the following gradation, as determined in accordance with ASTM D 422:

B. Sieve Size — Percent Passing

1. 1 inch — 100
2. No. 4 — 20-100
3. No. 40 — 0-60
4. No. 200 — 0-35

C. The maximum particle size of poorly-graded gravels (GP) (no fines) should not exceed 3/4 inch unless expressly approved by the Wall Design Engineer and the long-term design strength (LTDS) of the geosynthetic is reduced to account for additional installation damage from particles larger than this maximum.

D. The plasticity of the fine fraction shall be less than 20.

E. The pH of the backfill material shall be between 3 and 9 when tested in accordance with ASTM G 51.

2.9 GEOTEXTILE FILTER

A. Drainage geotextile shall consist of geosynthetic specifically manufactured for use as a preamble soil filter that retains soil while still allowing water to pass throughout the life of the structure. The type and placement of the geotextile filter material shall be as required by the Wall Design Engineer in their final wall plans and specifications.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify location of existing structures and utilities prior to excavation.

B. Protect adjacent structures from the effects of excavation.

C. Verify that layout dimensions are correct and substrate is in proper condition for installation.

D. Notify Architect of unsatisfactory conditions.

E. Do not proceed with installation until unsatisfactory conditions have been corrected.

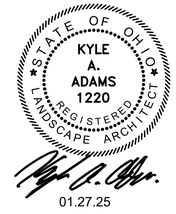
3.2 PREPARATION

A. Sitework:

B. Excavation:

1. Excavate to lines and grades indicated on drawings.
2. Do not disturb embankment or foundation beyond lines. Minimize over-excavation; fill over-excavated areas with compacted reinforced backfill or leveling pad material at Contractor's expense.
3. After excavation, and prior to placement of leveling materials, Geotechnical Engineer will examine bearing soil surface to verify strength meets or exceeds design requirements and assumptions.

24-005-RES



01.27.25

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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS
FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

LANDSCAPE SPECIFICATIONS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	10/1/2025
DRAWN BY:	PWJ
CHECKED BY:	KAA
JOB NUMBER:	2024.00690

24/25

PLOT SCALE: 1:1 EDIT DATE: 10/1/25 - 10:52 AM EDITED BY: PJONES DRAWING FILE: O:\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690 LP.DWG

4. Replace unsuitable bearing soil as directed by Architect.

C. Leveling Pad:

1. Depth: As indicated.
2. Width: 6 inches minimum extension beyond front and back faces of units.
3. In lieu of pad made solely of aggregate or concrete, pad may be 3 inches, minimum, of thick compacted sand or crushed rock, covered with 2 inches to 3 inches of unreinforced concrete.
4. Location: Top of pad at 1 inch below grade for each 8 inches that wall extends above grade.
5. Compact aggregate to lines and grades on drawings, in lifts 6 inches thick, maximum.
6. Use only hand-operated compaction equipment within 36 inches of back of wall.

D. Verify level grade before proceeding.

E. Install drainage collection pipe with a continuous fall in the direction of flow. Cap open ends as necessary to prevent soil and debris from entering.

3.3 INSTALLATION

A. Install in accordance with drawings, manufacturer instructions, and applicable codes and regulations.

B. Segmental Retaining Wall Units:

1. Place first course of units on leveling pad; check alignment and level. Check for full contact with base and for stability.
2. Place units side by side for full length of wall, aligning back face of straight walls using string line or offset from base line and back face of curved walls using flexible pipe or other method recommended by manufacturer.
3. Do not leave gaps between units.
4. Lay cut corners and curves in accordance with manufacturer's instructions. Do not leave gaps to produce wall batter or curvature.
5. Cut blocks with saw; do not split units.
6. Sweep excess material from tops of units before laying succeeding courses.
7. Place a maximum of 2 succeeding courses above level backfill. Check for proper alignment and batter.
8. Where top of wall changes elevation, step units to match grade or turn top course into embankment.
9. Where bottom of wall changes elevation, step base leveling pad and extend lowest course a minimum of two units into slope.
10. Install shear connectors per manufacturer recommendations.

C. Soil Reinforcement: Install each layer on fully compacted fill.

1. Orient soil reinforcement material with highest strength axis perpendicular to wall alignment.
2. Attach to top of wall units and extend horizontally, full length, over compacted backfill slightly sloping downward away from wall.
3. Install in one piece lengths with 100 percent coverage in each layer at each level. Do not splice or leave gaps between panels or ends of pieces.
4. Pull taut and remove slack prior to backfill placement.

D. Drainage Fill: Place drainage fill in, between, and behind units.

1. Compact to lines and grades on drawings, in lifts 6 inches thick, maximum; decrease lift thickness where necessary to achieve required density.
2. Extend drainage fill 6 inches beyond back face of units.
3. Base of drainage fill elevation shall not exceed two courses or 16 inches from base of wall units.

E. Backfill: Place, spread, and compact backfill from behind drainage fill to undisturbed soil while minimizing the development of slack in the soil reinforcement.

1. Use only lightweight hand-operated compaction equipment within 3 feet from back wall face, or one half of wall height, whichever is greater.
2. Place backfill in lifts of maximum 6 inches to 8 inches loose thickness where hand compaction is used and 8 inches to 10 inches where heavy compaction equipment is used.
3. Compact backfill to 95 percent maximum density and upper 2 feet of backfill to 98 percent maximum density, standard Proctor, as determined in accordance with ASTM D698, or as recommended by Geotechnical Engineer.
4. Moisture content of backfill prior to and during compaction to be within plus or minus 2 percentage points dry of optimum and uniform throughout each layer.
5. Do not operate tracked construction equipment directly upon soil reinforcement. Maintain a minimum fill thickness of 6 inches for operation of tracked vehicles over soil reinforcement. Minimize turning of tracked vehicles while over soil reinforcement.
6. Operate wheeled equipment at speeds less than 10 miles per hour over soil reinforcement.
7. Prevent contamination of the filter fabric, unit fill, blanket drains, chimney drains, and/or drainage composite from poor drainage materials such as fine grained silt and clay.

F. Cap Units: Install and top two courses of units with masonry adhesive.

1. Verify in-place top of wall elevation prior to installation of cap units and adjust accordingly.
2. Clear cap units and top course of segmental retaining wall units of debris and standing water before applying adhesive.
3. Apply masonry adhesive to top surface of top unit and place cap into position over projecting pins. Protect wall face from masonry adhesive.

G. Site Drainage:

1. At end of each day:
   a. Grade backfill a minimum of 2 percent away from wall to prevent runoff from adjacent areas from entering wall site and to prevent ponding at the wall.
   b. Construct a berm at the crest of the wall to prevent surface water from overtopping.
2. At completion, if other work adjacent to wall is not to be done immediately (paving, landscaping, etc), grade top of backfill and provide temporary drainage to prevent water runoff toward the wall.
3. Surface water control and groundwater seepage shall be the responsibility of the project Architect.

3.4 TOLERANCES

A. Top of Wall:

1. Plan Location: Maximum of plus/minus 1 inch from plan location.
2. Elevation: Maximum of plus/minus 1-1/2 inch from elevations shown on drawings.

B. Face of Wall Flatness: Measured as deviation from a straight edge.

1. In the Vertical Dimension: Plus/minus 1-1/4 inch per 10 foot section.
2. In the Horizontal Dimension of Straight Walls: Plus/minus 1-1/2 inch per 10 foot section.

C. Overall Wall Batter: Within 2 degrees of design, measured from the vertical.

D. Gap Between Adjacent Units: 1/8 inch, maximum.

3.5 FIELD QUALITY CONTROL

A. Observe and inspect:

1. Concrete units: For correct type, for quality installation with courses that are level and follow the designed batter ratio.
2. Soil backfill: For correct type, for specified compaction with level grading prior to reinforcement installation.
3. Soil reinforcement: For correct type, for solid connection to concrete units, and for smooth and taut installation.
4. Field location in plan and elevation.

B. Soil Tests: For every new soil type and/or for every 2,000 cubic yard per running foot perform Atterberg Limit, Sieve Analysis, and Proctor Compaction tests. Perform additional testing per project Architect.

C. Owner will engage inspection and testing services, including independent laboratories, to provide quality assurance and testing services during construction. Contractor will secure necessary construction control testing during construction.

D. Correct work found deficient and not in accordance with drawings and specifications.

3.6 CLEANING

A. Clean wall face to remove debris and stains.

B. Leave adjacent paved areas broom clean.

3.7 PROTECTION

A. Prevent damage to wall and earthwork by subsequent construction and uncontrolled runoff until substantial completion; repair damage due to failure to protect wall or earthwork.

B. Do not operate equipment with wheel loads in excess of 150 pounds per square foot live load within 10 feet from the wall face.

C. Do not place temporary soil or fill stockpiles adjacent to wall.

END OF SECTION

SECTION 32 9119 - LANDSCAPE GRADING

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Topsoil placement.

B. Finish grading.

1.2 RELATED REQUIREMENTS

A. Section 32 9219 - Seeding.

1.3 REFERENCE STANDARDS

A. 29 CFR 1910.266 - Logging Operations; Current Edition.

B. ASTM D5268 - Standard Specification for Topsoil Used for Landscaping and Construction Purposes; 2023.

1.4 SUBMITTALS

A. See Section 01 3000-Administrative Requirements for submittal procedures.

1. Project Record Documents: Accurately record actual locations of utilities remaining by horizontal dimensions, elevations or inverts, and slope gradients.
2. Field Quality Control Submittals: Topsoil depth measurements.

1.5 QUALITY ASSURANCE

A. Perform work in accordance with State of Ohio, Highway Department standards.

1. Maintain one copy on-site.

1.6 FIELD CONDITIONS

A. Place topsoil during dry weather.

B. Ambient Conditions: Terminate work during hazardous environmental conditions in accordance with 29 CFR 1910.266.

PART 2 PRODUCTS

2.1 MATERIALS

A. Imported Topsoil: Comply with ASTM D5268.

B. Stockpiled Topsoil

1. Remove and store existing topsoil to be respread and fine graded.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify grading and intended elevations are as indicated on drawings.

B. Verify absence of standing or ponding water.

3.2 PREPARATION

A. Protect site features to remain, including bench marks, survey control points, existing structures, fences, sidewalks, paving, and curbs.

B. Protect trees, plants, lawns, rock outcroppings, and other features to remain.

C. Remove debris, roots, branches, stones, in excess of 1/2 inch in size.

D. Scarify surface to depth of 3 inches.

3.3 TOPSOIL PLACEMENT

A. Uniformly distribute and spread topsoil.

B. Place topsoil to the following compacted thicknesses:

1. Areas Indicated Seeded with Grass: Respread stockpiled topsoil to a minimum depth of 1".
2. Planting Beds: 6 inches.

3.4 FINISH GRADING

A. Maintain profiles and contour of subgrade.

B. Remove roots, weeds, rocks, and foreign material while spreading.

C. Maintain uniform topsoil thickness.

D. Lightly compact placed topsoil.

E. Apply seed, see Section 32 9219.

3.5 TOLERANCES

A. Topsoil Thickness: 1/2 inch plus/minus.

3.6 PROTECTION

A. Protect from stormwater runoff and subsequent construction operations.

B. Do not permit traffic until established.

END OF SECTION

SECTION 32 9300 - PLANTS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. New trees, plants, and ground cover.

B. Relocated trees, plants, and ground cover.

1.2 DEFINITIONS

A. Weeds: Include Dandelion, Jimsonweed, Quackgrass, Horsetail, Morning Glory, Rush Grass, Mustard, Lambsquarter, Chickweed, Cress, Crabgrass, Canadian Thistle, Nutgrass, Poison Oak, Blackberry, Tansy Ragwort, Bermuda Grass, Johnson Grass, Poison Ivy, Nut Sedge, Nimble Will, Bindweed, Bent Grass, Wild Garlic, Perennial Sorrel, and Brome Grass.

B. Weeds: Any plant life not specified or scheduled.

C. Plants: Living trees, plants, and ground cover specified in this Section , and described in ANSI Z60.1.

1.3 REFERENCE STANDARDS

A. ANSI A300 Part 1 - American National Standard for Tree Care Operations - Tree, Shrub, and Other Woody Plant Management - Standard Practices (Pruning); 2017.

1.4 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Certificate: Certify fertilizer and herbicide mixture approval by authority having jurisdiction.

C. Certificate: Submit certificate for plants free of disease or hazardous insects; certified by federal department of agriculture; free of disease or hazardous insects.

D. Maintenance Data: Include cutting and trimming method ; types, application frequency, and recommended coverage of fertilizer ; and _____.

1.5 QUALITY ASSURANCE

A. Nursery Qualifications: Company specializing in growing and cultivating the plants with three years documented experience.

B. Tree Pruning: Comply with ANSI A300 Part 1.

C. Maintenance Services: Performed by installer.

D. Non-native, Invasive Plant Species: Do not introduce, grow, or cultivate plant species that are non-native to the ecosystem of the project site, and whose introduction causes or is likely to cause economic or environmental harm or harm to human health.

1. Comply with laws regulating non-native and invasive plant species in the State in which the Project is located.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver fertilizer in waterproof bags showing weight, chemical analysis, and name of manufacturer.

B. Protect and maintain plant life until planted.

C. Deliver plant life materials immediately prior to placement. Keep plants moist.

1.7 FIELD CONDITIONS

A. Do not install plant life when ambient temperatures may drop below 35 degrees F or rise above 90 degrees F.

B. Do not install plant life when wind velocity exceeds 30 mph.

1.8 WARRANTY

A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

B. Provide one year warranty.

C. Warranty: Include coverage for one continuous growing season; replace dead or unhealthy plants.

D. Replacements: Plants of same size and species as specified, planted in the next growing season, with a new warranty commencing on date of replacement.

PART 2 PRODUCTS

2.1 REGULATORY REQUIREMENTS

A. Comply with regulatory agencies for fertilizer and herbicide composition.

B. Provide certificate of compliance from authority having jurisdiction indicating approval of plants, fertilizer and herbicide mixture.

C. Plant Materials: Certified by federal department of agriculture; free of disease or hazardous insects.

2.2 PLANTS

A. Plants: Species and size identified in plant schedule, grown in climatic conditions similar to those in locality of the work.

2.3 SOIL MATERIALS

A. Topsoil: Fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, taken from drained site; free of subsoil, clay or impurities, plants, weeds and roots; minimum pH value of 5.4 and maximum 7.0.

2.4 SOIL AMENDMENT MATERIALS

A. Fertilizer: Containing fifty percent of the elements derived from organic sources; of proportion necessary to eliminate any deficiencies of topsoil, as indicated in analysis.

B. Peat Moss: Shredded, loose, sphagnum moss; free of lumps, roots, inorganic material or acidic materials; minimum of 85 percent organic material measured by oven dry weight, pH range of 4 to 5; moisture content of 30 percent.

C. Bone Meal: Raw, finely ground, commercial grade, minimum of 3 percent nitrogen and 20 percent phosphorous.

D. Lime: Ground limestone, dolomite type, minimum 95 percent carbonates.

E. Water: Clean, fresh, and free of substances or matter that could inhibit vigorous growth of plants.

2.5 MULCH MATERIALS

A. Mulching Material: _____ species wood shavings, free of growth or germination inhibiting ingredients.

2.6 ACCESSORIES

A. Wrapping Materials: Burlap.

B. Stakes: Softwood lumber, pointed end.

C. Cable, Wire, Eye Bolts and Turnbuckles: Non-corrosive, of sufficient strength to withstand wind pressure and resulting movement of plant life.

D. Plant Protectors: Rubber sleeves over cable to protect plant stems, trunks, and branches.

E. Tree Protectors: plastic corrigated drain pipe installed to prevent deer damage.

2.7 SOURCE QUALITY CONTROL

A. Provide testing of imported topsoil.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that prepared subsoil and planters are ready to receive work.

B. Saturate soil with water to test drainage.

C. Verify that required underground utilities are available, in proper location, and ready for use.

3.2 PREPARATION OF SUBSOIL

A. Prepare subsoil to eliminate uneven areas. Maintain profiles and contours. Make changes in grade gradual. Blend slopes into level areas.

B. Remove foreign materials, weeds and undesirable plants and their roots. Remove contaminated subsoil.

C. Scarify subsoil to a depth of 3 inches where plants are to be placed. Repeat cultivation in areas where equipment, used for hauling and spreading topsoil, has compacted subsoil.

D. Dig pits and beds 6 inches larger than plant root system.

3.3 PLACING TOPSOIL

A. Spread topsoil to a minimum depth of 6 inches over area to be planted. Rake smooth.

B. Place topsoil during dry weather and on dry unfrozen subgrade.

C. Remove vegetable matter and foreign non-organic material from topsoil while spreading.

D. Grade topsoil to eliminate rough, low or soft areas, and to ensure positive drainage.

E. Install topsoil into pits and beds intended for plant root balls, to a minimum thickness of 6 inches.

3.4 FERTILIZING

A. Apply fertilizer in accordance with manufacturer's instructions.

B. Apply after initial raking of topsoil.

C. Mix thoroughly into upper 2 inches of topsoil.

D. Lightly water to aid the dissipation of fertilizer.

3.5 PLANTING

A. Set plants vertical.

B. Remove non-biodegradable root containers.

1. For metal Tree baskets remove uppder 1/2 of tree basket.

C. Set plants in pits or beds, partly filled with prepared plant mix, at a minimum depth of 6 inches under each plant. Remove burlap, ropes, and wires, from the root ball.

D. Place bare root plant materials so roots lie in a natural position. Backfill soil mixture in 6 inch layers. Maintain plant life in vertical position.

E. Saturate soil with water when the pit or bed is half full of topsoil and again when full.

3.6 PLANT RELOCATION AND RE-PLANTING

A. Relocate plants as indicated by Architect.

B. Replant plants in pits or beds, partly filled with prepared topsoil mixture, at a minimum depth of 6 inches under each plant. Remove burlap, ropes, and wires, from the root ball.

C. Place bare root plant materials so roots lie in a natural position. Backfill soil mixture in 6 inch layers. Maintain plant materials in vertical position.

D. Saturate soil with water when the pit or bed is half full of topsoil and again when full.

3.7 INSTALLATION OF ACCESSORIES

A. Wrap deciduous shade and flowering tree trunks and place tree protectors.

3.8 PLANT SUPPORT

A. Brace plants vertically with plant protector wrapped guy wires and stakes to the following:

1. Tree Caliper: 1 inch; Tree Support Method: 1 stake with one tie
2. Tree Caliper: 1 to 2 inches; Tree Support Method: 2 stakes with two ties
3. Tree Caliper: 2 to 4 inches; Tree Support Method: 3 guy wires with eye bolts and turn buckles
4. Tree Caliper: Over 4 inches; Tree Support Method: 4 guy wires with eye bolts and turn buckles

3.9 TREE PRUNING

A. Prune trees as recommended in ANSI A300 Part 1.

B. Prune newly planted trees as required to remove dead, broken, and split branches.

3.10 FIELD QUALITY CONTROL

A. Plants will be rejected if a ball of earth surrounding roots has been disturbed or damaged prior to or during planting.

3.11 MAINTENANCE

A. Maintain plant life immediately after placement and until plants are well established and exhibit a vigorous growing condition. Continue maintenance until termination of warranty period.

B. Irrigate sufficiently to saturate root system and prevent soil from drying out.

C. Remove dead or broken branches and treat pruned areas or other wounds.

D. Neatly trim plants where necessary.

E. Immediately remove clippings after trimming.

F. Control growth of weeds. Apply herbicides in accordance with manufacturer's instructions.

G. Control insect damage and disease. Apply pesticides in accordance with manufacturers instructions.

END OF SECTION

24-005-RES

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PUBLIC STREET, STORM, AND WATER IMPROVEMENTS FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

LANDSCAPE SPECIFICATIONS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

STATE OF OHIO
KYLE A. ADAMS
1220
REGISTERED LANDSCAPE ARCHITECT
01.27.25

DATE:	10/1/2025
DRAWN BY:	PWJ
CHECKED BY:	KAA
JOB NUMBER:	2024.00690

25/25

PLOT SCALE: 1:1 EDIT DATE: 10/1/25 - 10:52 AM EDITED BY: PJONES DRAWING FILE: C:\2024\00690\D DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\ONSITE CDS\2024.00690 LP.DWG

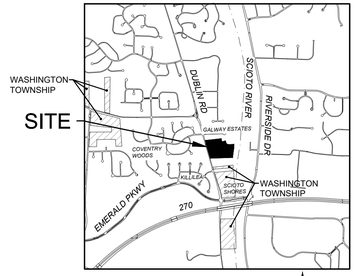
SHEET INDEX

1 - TITLE SHEET
2 - PRELIMINARY PLAT

PRELIMINARY PLAT
FOR

LIU COURT

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO



VICINITY MAP
NTS

SITE DATA

ZONING:

PROPERTY OWNER:	GEORGE CRIMSON LLC
PARCEL ID:	273-001786-00
SITE ACREAGE:	12.820 (REC) 12.793 (MEASURED)
SITE ZONING	R-1, RESTRICTED SUBURBAN RESIDENTIAL DISTRICT
FEMA FLOODPLAIN:	39049C0151K (6/17/2008) ZONE X

SITE LAYOUT DATA:

TOTAL LOTS:	7 LOTS
GROSS DENSITY (NET DENSITY):	0.55 LOTS/ACRE
MINIMUM DRIVE AISLE WIDTH:	24'
MINIMUM LOT WIDTH:	150' AT THE FRONT LINE OF THE DWELLING
MINIMUM FRONT YARD SETBACK:	30'
MINIMUM REAR YARD SETBACK:	50'
TOTAL SIDE YARD SETBACK:	25', 8' MINIMUM ON ONE SIDE
REAR YARD MINIMUM:	20% OF THE LOT DEPTH

BUILDING DATA:

BUILDING HEIGHT:	35' MAXIMUM HEIGHT

LANDSCAPE DATA:

EXISTING IMPERVIOUS AREA:	1.04 AC
PROPOSED IMPERVIOUS AREA:	2.01 AC
GREENSPACE:	10.10 AC (79%)

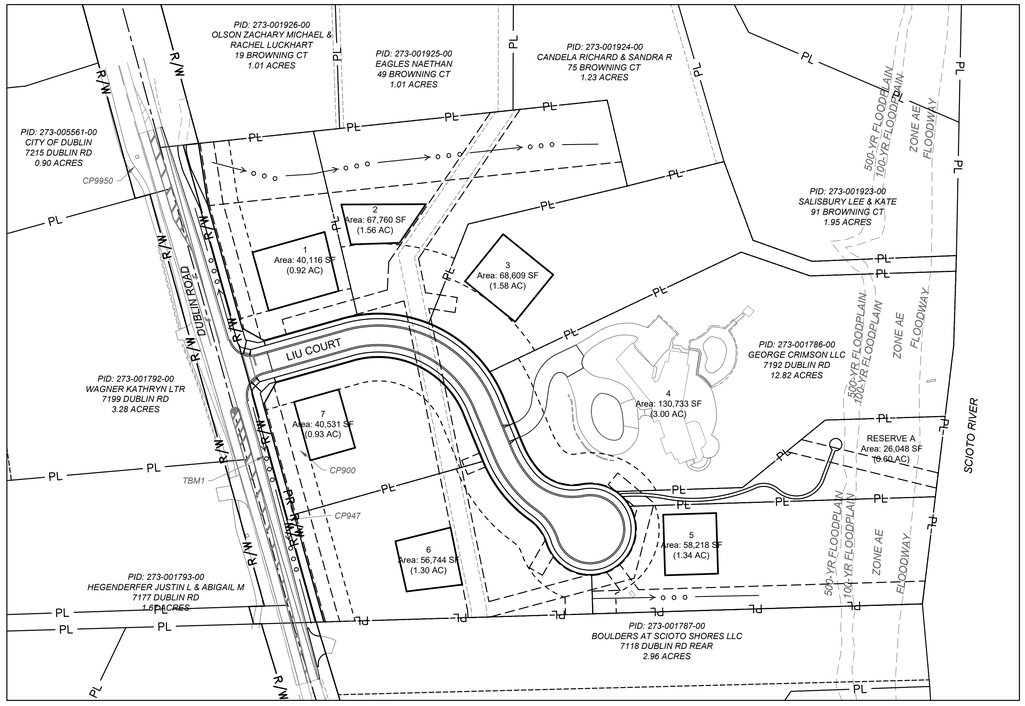
THIS SURVEY IS BASED ON AN ACTUAL SURVEY PERFORMED OF THE PREMISES IN AUGUST, 2024 AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

AMERICAN STRUCTUREPOINT,INC.

BASIS OF BEARINGS
BEARINGS SHOWN HEREON ARE BASED ON GRID NORTH, REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION

HORIZONTAL CONTROL				
COORDINATES ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION. A PROJECT ADJUSTMENT FACTOR OF 1.0000184927 WAS APPLIED ABOUT C.P. 900 TO OBTAIN GROUND COORDINATES.				
C.P.	**DESCRIPTION**	**NORTHING (GROUND)**	**EASTING (GROUND)**	**ELEVATION**
CP 900	5/8" IRON PIN SET W/ "ASI CONTROL POINT" CAP	770657.227	1796156.545	852.24
CP 947	MAG NAIL FOUND	770565.830	1796139.799	851.58
CP 949	MAG NAIL SET	770019.566	1796217.909	842.37
CP 9950	MAG NAIL SET	771031.845	1795937.341	848.03

VERTICAL CONTROL				
ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS DERIVED FROM GNSS OBSERVATIONS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) AND GEOID 18, AND AN NGS OPUS SOLUTION FOR CONTROL POINT 900. THE ELEVATIONS FOR ALL OTHER CONTROL POINTS AND BENCHMARKS LISTED HEREON WERE ESTABLISHED UTILIZING A DIFFERENTIAL LEVEL CIRCUIT ORIGINATING FROM CONTROL POINT 900.				
B.M.	**DESCRIPTION**	**NORTHING (GROUND)**	**EASTING (GROUND)**	**ELEVATION**
CP 900	5/8" IRON PIN SET W/ "ASI CONTROL POINT" CAP	770657.227	1796156.545	852.24
TBM 1	MAG NAIL FOUND IN POWER POLE +/- 72' NORTH OF THE DRIVE FOR 7192 DUBLIN ROAD, +/- 48' WEST OF CP 900, +/- 27' EAST OF THE CENTER LINE OF DUBLIN ROAD	N/A	N/A	853.64



INDEX MAP
HORZ 1"=100' 0 100 200

	OWNER	MAINTENANCE	DESCRIPTION
RESERVE A	HOA	HOA	PRIVATE OPEN SPACE WITH PROPOSED GRAVEL PATH TO PROVIDE ACCESS TO SEATING AREA AND WATERFRONT.
SANITARY EASEMENT	CITY OF DUBLIN	CITY OF DUBLIN	EASEMENT FOR SANITARY SEWER.
STORM EASEMENT	CITY OF DUBLIN	CITY OF DUBLIN	EASEMENT FOR STORM SEWER AND SWALE.
LANDSCAPE EASEMENT	HOA	HOA	EASEMENT FOR LANDSCAPE BUFFER BETWEEN DUBLIN RD AND LOTS 1, 6, AND 7.

UTILITY CONTACTS

AMERITECH
408 CRITES ROAD
CIRCLEVILLE, OH 43113
PHONE: (740) 477-3658

AMERICAN ELECTRIC POWER
850 TECH CENTER DRIVE
GAHANA, OH 43230
PHONE: (614) 883-6831

CITY OF DUBLIN
DIVISION OF ENGINEERING
5800 SHIER-RINGS ROAD
DUBLIN, OH 43016
PHONE: (614) 410-4600

CITY OF COLUMBUS
DIVISION OF WATER
910 DUBLIN ROAD
COLUMBUS, OH 43215
PHONE: (614) 645-7788

COLUMBIA GAS OF OHIO
200 S CIVIC CENTER DR
COLUMBUS, OH 43215
PHONE: (614) 460-6000

TIME WARNER CABLE
1980 ALUM CREEK DR
COLUMBUS, OH 43207
PHONE: (614) 918-8439

OWNER/ DEVELOPER

MR. JASON LIU
10279 WELLINGTON BLVD.
POWELL, OHIO 43065
CONTACT: JASON LIU
PHONE: (614) 313-1268
EMAIL: JASONLIU1218@YAHOO.COM

ARCHITECT

BASS STUDIO ARCHITECTS
36 KING AVENUE
COLUMBUS, OHIO 43201
CONTACT: TIMOTHY A. BASS, AIA, LEED AP
PHONE: (614) 294-4893
EMAIL: WWW.BASSSTUDIOARCHITECTS.COM

ENGINEER

AMERICAN STRUCTUREPOINT
2550 CORPORATE EXCHANGE DRIVE, SUITE 300
COLUMBUS, OHIO 43231
CONTACT: BENJAMIN SCHILLING
PHONE: (614) 901-2235
EMAIL: BSCHILLING@STRUCTUREPOINT.COM

Ohio Utilities Protection Service
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24-005-RES

AMERICAN STRUCTUREPOINT INC.
2550 Corporate Exchange Dr. Ste 300 | Columbus, Ohio 43231
TEL 614.901.2235 | FAX 614.901.2236
www.structurepoint.com

PRELIMINARY PLAT
FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
TITLE SHEET

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	9/29/2025
DRAWN BY:	DA
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

PLOT SCALE: 1:1 EDIT DATE: 9/29/25 - 2:00 PM EDITED BY: DANUGERAH DRAWING FILE: O:\2024\00690\D_DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\PRELIMINARY PLAT\2024.00690_TS.DWG

SITE LEGEND	
—PL—	PROPERTY LINE
—R/W—	EXISTING RIGHT-OF-WAY
—PR—R/W—	PROPOSED RIGHT-OF-WAY
	CURB AND GUTTER
	SIGN

PID: 273-001926-00
OLSON ZACHARY MICHAEL & RACHEL LUCKHART
19 BROWNING CT
1.01 ACRES

PID: 273-001925-00
EAGLES NAETHAN
49 BROWNING CT
1.01 ACRES

GALWAY ESTATES SUBDIVISION
P.B. 89, P.G. 55

LOT 9
LOT 8
LOT 7
LOT 6

PID: 273-001924-00
CANDELA RICHARD & SANDRA R
75 BROWNING CT
1.23 ACRES

PID: 273-001923-00
SALISBURY LEE & KATE
91 BROWNING CT
1.95 ACRES

PID: 273-001786-00
GEORGE CRIMSON LLC
7192 DUBLIN RD
12.820 ACRES

PID: 273-001792-00
WAGNER KATHRYN LTR
I.N. 201201130006073
3.279 ACRES

PID: 273-001793-00
HEGENDERFER JUSTIN L & ABIGAIL M
I.N. 202106160106000
1.672 ACRES

CONVENTRY WOODS, SECTION 2
P.B. 73, P.G. 17
RESERVE "D"

KILLILEA, SECTION 2
P.B. 93, P.G. 91
LOT 42

LUTHER MITCHELL'S SCIOTO SHORES
P.B. 18, P.G. 37
LOT 1

PID: 273-001787-00
BOULDERS AT SCIOTO SHORES LLC
7118 DUBLIN RD REAR
2.96 ACRES

SECTION 2
7

DUBLIN ROAD
(VARIABLE WIDTH PUBLIC)

LIU COURT

PROPOSED DRIVE

EX DRIVE

EX POOL

1 AREA: 40,116 SF (0.92 AC)
2 AREA: 67,760 SF (1.56 AC)
3 AREA: 68,609 SF (1.58 AC)
4 AREA: 130,733 SF (3.00 AC)
5 AREA: 58,218 SF (1.34 AC)
6 AREA: 56,744 SF (1.30 AC)
7 AREA: 40,531 SF (0.93 AC)

RESERVE A
AREA: 26,048 SF
(0.60 AC)

40' DUBLIN RD BUILDING LINE SETBACK
20' LANDSCAPE EASEMENT
36' FRONT YARD SETBACK
92' FRONT YARD SETBACK
65' FRONT YARD SETBACK
41' FRONT YARD SETBACK
31' FRONT YARD SETBACK

2' SHARED USE PATH EASEMENT
PROP 10' R/W DEDICATION
11' SHARED USE PATH

PROP 83' STORM EASEMENT
PROP 20' STORM EASEMENT
PROP 30' SANITARY EASEMENT
EX 20' SANITARY EASEMENT
D.B. 3720, PG. 636
PROP 20' SANITARY EASEMENT
PROP SANITARY EASEMENT (VARIES)

PROP 30' STORM EASEMENT
PROP 20' SANITARY EASEMENT

EX 24" WATER MAIN (ABANDONED)

500-YR FLOODPLAIN
100-YR FLOODPLAIN
ZONE AE
FLOODWAY

SCIOTO RIVER

CP9950
CP900
CP947
TBM1

N83°56'54"E - 152.47'
N83°56'54"E - 389.84'
S13°14'25"E - 116.39'
N75°48'41"E - 131.62'
N76°33'00"E - 215.88'
S20°11'31"E - 110.70'
S70°23'15"E - 82.77'
S70°58'24"E - 95.93'
N87°42'49"E - 190.67'
N88°09'02"E - 192.68'
S01°42'42"W
N64°34'20"E - 367.51'
S01°42'42"W - 98.19'
S06°54'37"W - 94.11'
N88°12'27"E - 158.34'
N50°47'07"E - 140.90'
S06°54'37"W - 106.85'
N88°12'27"E - 167.57'
N88°12'27"E - 404.04'
S06°54'37"W - 142.46'
S88°16'20"W - 435.20'
S88°16'20"W - 355.09'
N01°47'33"W - 51.68'
N01°47'33"W 22.64'
S01°47'33"E 26.12'
N12°25'56"W - 249.38'
N21°46'09"E - 140.77'
L=152.50, R=271.00
L=153.21, R=244.00
L=22.61, R=215.00
L=21.17, R=179.00
L=95.97, R=179.00
L=104.59, R=179.00
L=217.90, R=180.00
L=38.79, R=179.00
L=175.77, R=180.00
L=130.74, R=90.00
L=121.18, R=215.00
L=102.06, R=150.00
L=38.99, R=150.00
L=46.91, R=60.00
L=26.87, R=60.00
L=38.99, R=60.00
L=37.94, R=60.00
L=15.34, R=24.00
L=141.46, R=91.00
L=114.12, R=60.00
L=36.46, R=96.00
S80°43'53"E 33.86'
S74°16'27"W 171.58'
S29°16'27"W 33.00'
N74°16'27"E - 106.58'
N74°16'27"E - 130.22'
N74°16'27"E - 258.78'
S15°52'22"E - 161.79'
S08°41'01"E - 83.09'
S22°29'41"E - 67.87'
N22°29'41"W - 67.87'
S22°29'41"E - 41.04'
N29°29'41"W
S22°29'41"E - 67.87'
24' E.E.
58' R/W
14+00
15+00
16+00
16+18
10+00
11+00
12+00
78+00
30.55'
24.61'
79.15'
76.09'
161.27'
65.67'
37.14'
20.60'
SCALE: 1" = 40'
HORZ 1"=40' 0 40 80
24-005-RES

PRELIMINARY PLAT
FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

PRELIMINARY PLAT

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	9/29/2025
DRAWN BY:	DA
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

2/2

AMERICAN STRUCTUREPOINT INC.
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PLOT SCALE: 1:1 EDIT DATE: 9/29/25 - 1:54 PM EDITED BY: DANUGERAH DRAWING FILE: O:\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\PRELIMINARY PLAT\2024.00690 PRELIM PLAT.DWG

PUBLIC ROADWAY WIDENING PLANS
FOR

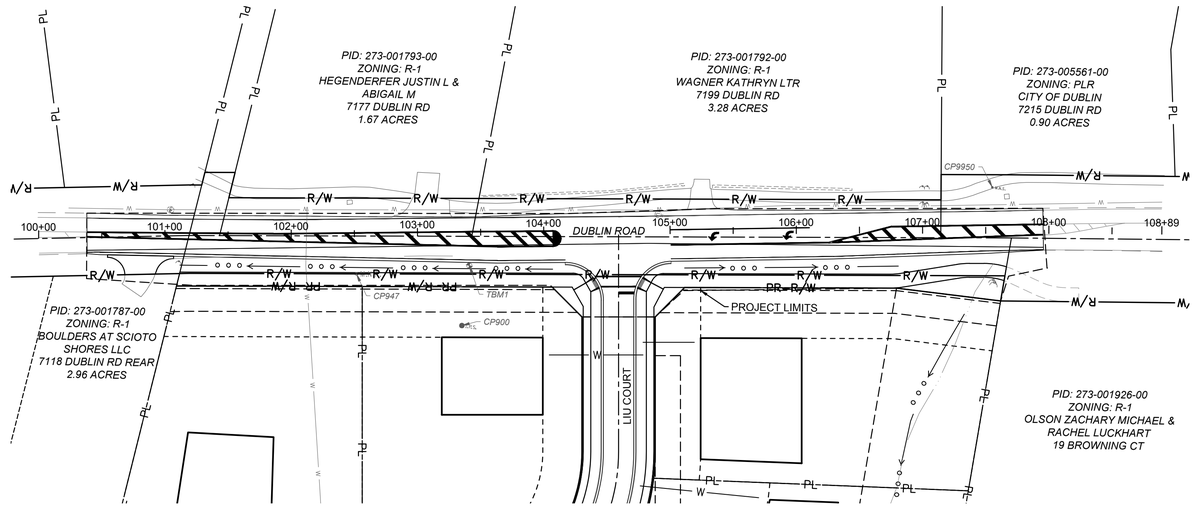
DUBLIN ROAD

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

SHEET INDEX

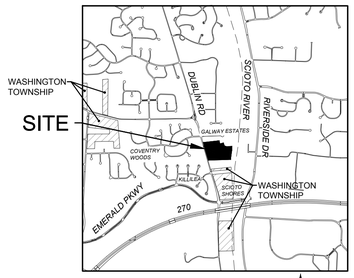
1 - TITLE SHEET
2 - GENERAL NOTES
3 - TYPICAL SECTIONS
4 - DEMOLITION PLAN
5 - MAINTENANCE OF TRAFFIC PLAN PHASE 1
6 - MAINTENANCE OF TRAFFIC PLAN PHASE 2
7 - MAINTENANCE OF TRAFFIC PLAN PHASE 3
8 - SCHEMATIC PLAN
9-10 - PLAN & PROFILE
11 - MULTI-USE PATH PROFILE
12-19 - DUBLIN RD CROSS SECTIONS
20 - SIGNAGE AND STRIPING PLAN
21 - SIGHT DISTANCE PLAN
22 - EROSION CONTROL PLAN
23 - EROSION CONTROL NOTES
24 - INTERSECTION & DRIVEWAY DETAILS

DESIGN CRITERIA	DESIGN SPEED	POSTED SPEED
DUBLIN ROAD	50 MPH	45 MPH



INDEX MAP

HORZ 1"=60' 0 60 120



VICINITY MAP
NTS

STANDARD CONSTRUCTION DRAWINGS

THE STANDARD CONSTRUCTION DRAWINGS LISTED ON THESE PLANS SHALL BE CONSIDERED A PART THEREOF.

CITY OF DUBLIN (2020 EDITION)			ODOT
MD-02	RD-02	ST-04	BP-3.1
MD-03	RD-03	ST-05	
MD-05	RD-05	ST-06	
PD-02	RD-09	WA-01	
PD-03	RD-10		
PD-04	SA-04		
PD-06	ST-01		
RD-01	ST-03		

BASIS OF BEARINGS
BEARINGS SHOWN HEREON ARE BASED ON GRID NORTH, REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION

HORIZONTAL CONTROL				
COORDINATES ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION. A PROJECT ADJUSTMENT FACTOR OF 1.0000184927 WAS APPLIED ABOUT C.P. 900 TO OBTAIN GROUND COORDINATES.				
C.P.	**DESCRIPTION**	**NORTHING (GROUND)**	**EASTING (GROUND)**	**ELEVATION**
CP 900	5/8" IRON PIN SET W/ "ASI CONTROL POINT" CAP	770657.227	1796156.545	852.24
CP 947	MAG NAIL FOUND	770565.830	1796139.799	851.58
CP 949	MAG NAIL SET	770019.566	1796217.909	842.37
CP 9950	MAG NAIL SET	771031.845	1795937.341	848.03

VERTICAL CONTROL				
ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS DERIVED FROM GNSS OBSERVATIONS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) AND GEOID 18, AND AN NGS OPUS SOLUTION FOR CONTROL POINT 900. THE ELEVATIONS FOR ALL OTHER CONTROL POINTS AND BENCHMARKS LISTED HEREON WERE ESTABLISHED UTILIZING A DIFFERENTIAL LEVEL CIRCUIT ORIGINATING FROM CONTROL POINT 900.				
B.M.	**DESCRIPTION**	**NORTHING (GROUND)**	**EASTING (GROUND)**	**ELEVATION**
CP 900	5/8" IRON PIN SET W/ "ASI CONTROL POINT" CAP	770657.227	1796156.545	852.24
TBM 1	MAG NAIL FOUND IN POWER POLE +/- 72' NORTH OF THE DRIVE FOR 7192 DUBLIN ROAD, +/- 48' WEST OF CP 900, +/- 27' EAST OF THE CENTER LINE OF DUBLIN ROAD	N/A	N/A	853.64

UTILITY CONTACTS

AMERITECH
408 CRITES ROAD
CIRCLEVILLE, OH 43113
PHONE: (740) 477-3658

AMERICAN ELECTRIC POWER
850 TECH CENTER DRIVE
GAHANA, OH 43230
PHONE: (614) 883-6831

CITY OF DUBLIN
DIVISION OF ENGINEERING
5800 SHIER-RINGS ROAD
DUBLIN, OH 43016
PHONE: (614) 410-4600

CITY OF COLUMBUS
DIVISION OF WATER
910 DUBLIN ROAD
COLUMBUS, OH 43215
PHONE: (614) 645-7788

COLUMBIA GAS OF OHIO
200 S CIVIC CENTER DR
COLUMBUS, OH 43215
PHONE: (614) 460-6000

TIME WARNER CABLE
1980 ALUM CREEK DR
COLUMBUS, OH 43207
PHONE: (614) 918-8439

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PHONE: (614) 901-2235
EMAIL: BSCHILLING@STRUCTUREPOINT.COM

APPROVED:

CITY OF DUBLIN:
SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

STATE OF OHIO
MATTHEW J. LILIE
E-86125
REGISTERED
PROFESSIONAL ENGINEER

07/17/2025
REGISTERED ENGINEER E-86125 DATE

DIRECTOR OF ENGINEERING/CITY ENGINEER DATE
CITY OF DUBLIN, OHIO
PAUL A. HAMMERSMITH, P.E.

Ohio Utilities Protection Service
Call 811 before you dig

24-005-RES

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2550 Corporate Exchange Dr. Ste 300 | Columbus, Ohio 43231
TEL 614.901.2235 | FAX 614.901.2236
www.structurepoint.com

PUBLIC ROADWAY WIDENING PLANS
FOR
DUBLIN ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
TITLE SHEET

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
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DATE:	04/02/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

1/24

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 3:43 PM EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024.00690 TS.DWG

GENERAL NOTES

1. CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.

2. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.

3. THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.

4. THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.

6. FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS_BUILT" ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE CONSTRUCTIONS DRAWINGS.

7. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT_OF_WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.

8. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.

9. NON_RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.

10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS_SECTIONS THAT EXISTED BEFORE CONSTRUCTION.

11. TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

12. DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.

13. ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

14. ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

15. ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.

16. BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE II ACCORDING TO ITEM 613. ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.

17. THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.

    SEND THE INFORMATION TO THE FOLLOWING ADDRESS:

    CONSTRUCTION INSPECTION DIVISION
    CITY OF COLUMBUS
    1800 EAST 17TH AVENUE
    COLUMBUS, OHIO 43219

    SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:

    DIVISION OF ENGINEERING
    CITY OF DUBLIN
    6555 SHIER RINGS ROAD
    DUBLIN, OHIO 43016

18. ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.

19. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6 - INCHES OR GREATER AT DBH (DIAMETER BREAST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.

20. CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PNEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED, CONTROLLED DENSITY BACKFILL (TYPE II) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 613 OF THE STANDARD SPECIFICATIONS.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.

22. PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 1441 DR A AND APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS. THE REPLACEMENT OF DRIVEWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAVEMENT, ETC. SHALL BE PROVIDED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.

23. TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.

24. ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.

25. ALL INLETS SHALL BE CHANNELIZED.

26. PARK AREAS SHALL BE FINE_GRADED AND SEEDED WITH THE FOLLOWING MIXTURE:

    IMPROVED KENTUCKY BLUEGRASS: 40% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)
    IMPROVED PERENNIAL RYE: 60% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)
    GERMINATION RATE: 85%
    APPLICATION RATE: 7 LBS PER 1000 SQ FT OR AS DIRECTED BY THE DIVISION OF PARKS AND RECREATION, CITY OF DUBLIN, OHIO.

27. TRAFFIC CONTROL AND OTHER REGULATORY SIGNS SHALL BE TYPE S WITH A SQUARE POST ANCHOR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT TC-41.20 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS.

28. STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN IN COLOR AND CONFORM WITH THE TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-41.20.

UTILITIES

1. THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:

    AEP OHIO - ELECTRIC
    BREEZELINE - TELECOM
    COLUMBIA GAS OF OH-COLUMBUS - GAS
    DUBLIN SEWER - SANITARY SEWER
    DUBLIN WATER - WATER MAIN
    DUBLIN DIVISION OF ENGINEERING - STORMWATER
    AT&T - TELECOM
    CHARTER COMM - TELECOM

2. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800_362_2764), PRODUCER'S UNDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614_587_0486), AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.

3. THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.

4. LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

5. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.

6. PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS PRIOR TO BEGINNING WORK.

TRAFFIC CONTROL

1. TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION.

2. ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM UNLESS AUTHORIZED DIFFERENTLY BY THE CITY ENGINEER. AT ALL OTHER HOURS THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE_LANE TWO_WAY TRAFFIC. UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE OMUTCD, AND SHALL BE PRESENT WHENEVER ONE_LANE, TWO_WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.

3. IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER SHALL ASSIGN UNIFORMED, OFF_DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.

4. STEADY_BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.

5. ACCESS FROM PUBLIC ROADWAYS TO ALL ADJOINING PROPERTIES FOR EXISTING RESIDENTS OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES. THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA. THE NOI MUST BE SUBMITTED TO OEPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITLE COVERAGE UNDER THE OHIO EPA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT LOCATION MAP MUST BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS. THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL NPDES STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE CONSIDERED THE PERMITTEE.
2. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.

3. ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. HAY OR STRAW BALES ARE NOT PERMITTED.

4. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.

5. DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.

BLASTING (*IF PERMITTED*)

1. THE CONTRACTOR MUST OBTAIN A BLASTING PERMIT FROM WASHINGTON TOWNSHIP FIRE DEPARTMENT PRIOR TO BLASTING FOR ROCK EXCAVATION. THE CONTRACTOR SHALL SUBMIT BLASTING REPORTS UPON COMPLETION OF BLASTING TO THE CITY ENGINEER, THE OWNER, AND THE OWNER'S ENGINEER. TOP OF ROCK ELEVATIONS SHALL BE SHOWN ON "AS_BUILT" CONSTRUCTION DRAWINGS.

SANITARY SEWERS

1. CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN OEPA PERMIT TO INSTALL (PTI), AND UPON RECEIVING A SATISFACTORY LETTER FROM THE DESIGN ENGINEER STATING THAT THE PROJECT HAS BEEN CONSTRUCTED AS PER THE PLANS, AND ALL OF THE CONDITIONS OF THE PTI HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED OHIO EPA APPROVALS AND PAYING REVIEW FEES.

2. SANITARY SEWAGE COLLECTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS OF THE CITY OF DUBLIN, OHIO EPA, OHIO DEPARTMENT OF HEALTH AND THE CURRENT EDITION OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD (TEN STATES) - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES.

3. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE WITH DIAMETERS 8 INCHES TO 10 INCHES SHALL BE PVC SEWER PIPE ASTM D3034, SDR 35. PIPE FOR 6 INCH DIAMETER HOUSE SERVICE LINES SHALL BE PVC PIPE ASTM D3034, SDR 35. PVC PIPE SHALL NOT BE USED AT DEPTHS GREATER THAN 28 FEET. PIPE MATERIALS AND RELATED STRUCTURES SHALL BE SHOP TESTED IN ACCORDANCE WITH CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION QUALITY CONTROL REQUIREMENTS.

4. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES WITH DIAMETERS 12 INCHES TO 30 INCHES SHALL BE PVC SEWER PIPE, ASTM D3034, SDR 35 OR SANITITE HP PIPE, ASTM F2736. SANITARY SEWER PIPES WITH DIAMETERS 30 INCHES TO 60 INCHES SHALL BE PVC SEWER PIPE, ASTM D3034, SDR 35 OR SANITITE HP PIPE, ASTM F2764.

5. ALL IN_LINE WYE AND TEE CONNECTIONS IN CONCRETE SEWERS, 18-INCH DIAMETER AND LARGER, SHALL BE EITHER KOR_N_TEE OR KOR_N_SEAL CONNECTIONS CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.

6. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 613, TYPE II OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.

7. ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF_SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOLT_DOWN LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE OR AS APPROVED BY THE CITY ENGINEER AND CONFORM TO THE CITY OF DUBLIN SANITARY MANHOLE STANDARD DRAWING. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO.

8. ALL PVC SEWER PIPES SHALL BE DEFLECTION TESTED NO LESS THAN 60 DAYS AFTER COMPLETION OF BACKFILLING OPERATIONS. ALL OTHER REQUIREMENTS SHALL BE ACCORDING TO ITEM 901.21 OF THE STANDARD SPECIFICATIONS.

9. TEMPORARY BULKHEADS SHALL BE PLACED IN PIPES AT LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AND SHALL REMAIN IN PLACE UNTIL THE PERMIT TO INSTALL (PTI) HAS BEEN ISSUED BY THE OEPA AND THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER. THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING BULKHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.

10. ALL SANITARY SEWERS INCLUDING SANITARY SEWER SERVICE LINES SHALL BE SUBJECTED TO AND PASS INFILTRATION OR EXFILTRATION TESTS ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER BEFORE ANY SERVICE CONNECTIONS ARE TAPPED INTO SEWERS.

11. FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.

12. AT THE DETERMINATION OF THE CITY ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO PERFORM A TV INSPECTION OF THE SANITARY SEWER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE CITY. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.

13. VISIBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.

14. ROOF DRAINS, FOUNDATION DRAINS, FIELD TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED ACCORDING TO SECTION 51.23 OF THE DUBLIN CODE OF ORDINANCES.

15. ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY, FROM SANITARY SEWERS AND STORM SEWERS, TO THE GREATEST EXTENT PRACTICABLE. WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER, THE SANITARY SEWER SHALL BE CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATERIAL.

16. SERVICE RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM WYES TO PROPOSED GROUND ELEVATION EXCEEDS 10 FEET. TOPS OF RISERS SHALL BE NO LESS THAN 9 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT SERVICE IS INTENDED.

17. WHERE SERVICE RISERS ARE NOT INSTALLED, A MINIMUM 5_FOOT LENGTH OF SANITARY SEWER SERVICE PIPE OF THE SAME SIZE AS THE WYE OPENING SHALL BE INSTALLED.

18. THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, APPROVED WYE POLES MADE OF 2 INCHES X 2 INCHES LUMBER AT ALL WYE LOCATIONS, ENDS OF EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED. WYE POLES SHALL BE VISIBLE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE POLES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.

19. EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES. COSTS FOR PUMPING AND BYPASSING SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE BID FOR THE RELATED ITEMS.

20. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO MANHOLE CONNECTIONS FOR ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATERTIGHT. ALL HOLES SHALL BE NEATLY CORED. THE SEWER PIPE BARREL AT THE SPRINGLINE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE FACE OF THE MANHOLE. TO MAINTAIN FLEXIBILITY IN THE CONNECTION, A 1_INCH SPACE SHALL BE LEFT BETWEEN THE END OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL; THIS SPACE SHALL BE FILLED WITH A WATERPROOF FLEXIBLE JOINT FILLER. ANY METAL THAT IS USED SHALL BE TYPE 300 SERIES STAINLESS STEEL. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES:

    A. RUBBER SLEEVE WITH STAINLESS STEEL BANDING.
        1) KOR_N_SEAL AS MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.
        2) LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERPACE CORPORATION.
        3) OR EQUAL AS APPROVED BY THE CITY ENGINEER.

    B. RUBBER GASKET COMPRESSION.
        1) PRESS WEDGE II AS MANUFACTURED BY PRESS_SEAL GASKET CORPORATION.
        2) DURA SEAL III AS MANUFACTURED BY DURA TECH, INC.
        3) LINK_SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION.
        4) OR EQUAL AS APPROVED BY THE CITY ENGINEER.

    THE COST FOR THIS WORK ALONG WITH A NEW CHANNELIZED BASE FOR THE MANHOLE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RELATED ITEMS OF WORK.

WATER LINE 1-17 DELETED

STORM SEWER 1-11 DELETED

MAIL DELIVERY

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT US MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.

2. BEFORE RELOCATING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.

USE OF FIRE HYDRANTS

1. THE CONTRACTOR SHALL MAKE PROPER ARRANGEMENTS WITH THE DUBLIN SERVICE DEPARTMENT AND THE COLUMBUS DIVISION OF WATER FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK PERFORMED UNDER THIS CONTRACT AND PROVIDE THE CITY OF DUBLIN A COPY OF THE HYDRANT USAGE PERMIT OBTAINED FROM THE CITY OF COLUMBUS. THE CONTRACTOR SHALL ALSO SEND A COPIES OF PERMITS OBTAINED FROM DUBLIN AND COLUMBUS TO THE WASHINGTON AND/OR PERRY TOWNSHIP FIRE DEPARTMENT. PERMITS SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.

2. BEFORE THE FINAL ESTIMATE IS PAID, THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE CITY OF COLUMBUS DIVISION OF WATER TO THE CITY ENGINEER STATING THAT THE CONTRACTOR HAS RETURNED THE SIAMESE VALVE TO THE CITY OF COLUMBUS AND HAS PAID ALL COSTS ARISING FROM THE USE OF THE FIRE HYDRANTS.

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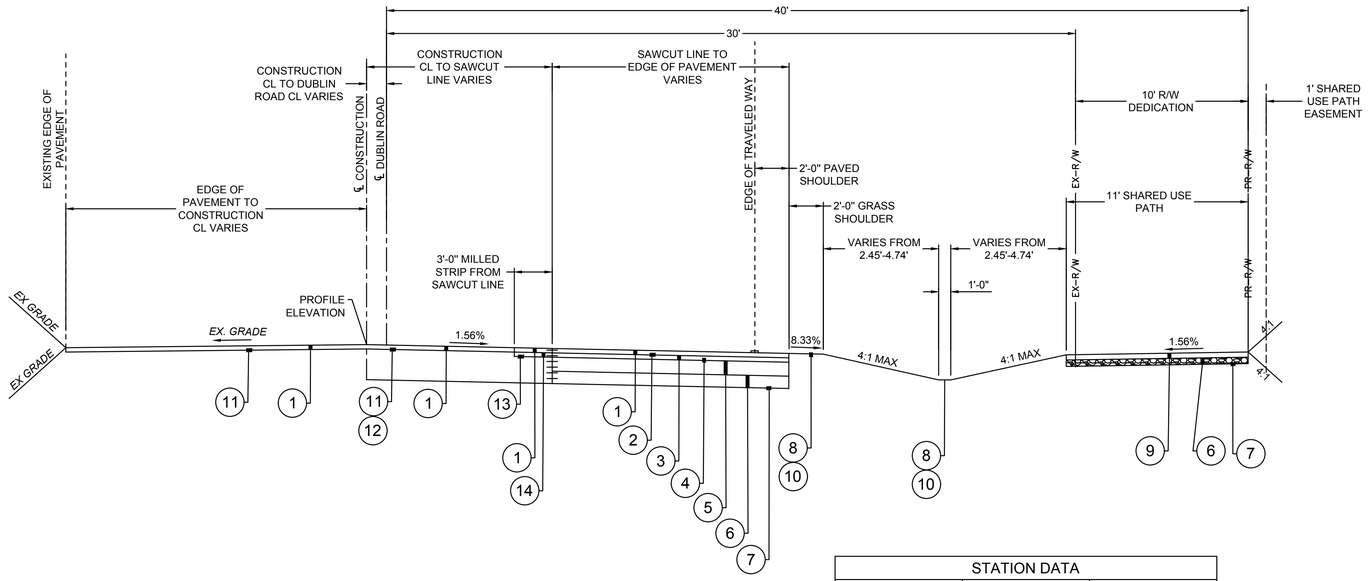
PUBLIC ROADWAY WIDENING PLANS FOR
DUBLIN ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
GENERAL NOTES

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	04/02/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 3:43 PM EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024.00690 TS.DWG



A TYPICAL SECTION - DUBLIN ROAD
NOT TO SCALE

STATION DATA		
NAME	BEGIN STA	END STA
DUBLIN ROAD	100+38.29	104+05.0
DUBLIN ROAD	105+13.2	107+95.49

TYPICAL SECTION LEGEND	
1	ITEM 442 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG. 64-22
2	ITEM 407 - NON-TRACKING TACK COAT @ 0.075 GAL/S.Y.
3	ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG. 64-22
4	ITEM 407 - NON-TRACKING TACK COAT @ 0.10 GAL/S.Y.
5	ITEM 301 - 6" BITUMINOUS AGGREGATE BASE
6	ITEM 304 - 6" AGGREGATE BASE
7	ITEM 204 - SUBGRADE COMPACTION
8	ITEM 659 - SEEDING AND MULCHING, AS PER PLAN (SEE NOTE 32 ON GENERAL NOTE PAGE)
9	ITEM 441 - 2 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), MEDIUM TRAFFIC, PG. 64-22
10	ITEM 653 - 3" TOPSOIL FURNISHED AND PLACED
11	ITEM 254 - PAVEMENT PLANING, 1 1/4" TYP
12	ITEM 442 - THICKNESS VARIES, ASPHALT CONCRETE INTERMEDIATE COURSE (WEDGE COURSE), 12.5MM, TYPE A (449), SEE VARIABLE THICKNESS TABLE BELOW
13	ITEM 254 - PAVEMENT PLANING, 2 1/2" TYP
14	ITEM 441 - 1 1/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG. 64-22

ESTIMATE OF QUANTITIES

THESE QUANTITIES HAVE BEEN PROVIDED ONLY AS AN ESTIMATE TO THE SCOPE OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO EVALUATE THE COMPLETE PROJECT AS DETAILED IN THE NOTES, PLANS, AND SPECIFICATIONS AND PROCEDURES NECESSARY FOR THE COMPLETION OF THE PLAN IMPROVEMENTS AND SUBMIT HIS TOTAL PROJECT COST ACCORDINGLY.

ITEM	QUANTITY	UNIT	DESCRIPTION
			ROADWAY
201	LUMP	SUM	CLEARING AND GRUBBING
202	580	SF	ASPHALT REMOVAL
202	1140	SF	CONCRETE REMOVAL
202	345	LF	GUARDRAIL REMOVAL
202	12	EA	REMOVE TREE
202	1	EA	12" CULVERT REMOVAL
203		CY	EXCAVATION
203		CY	EMBANKMENT
203	17,662	SF	1.25" MILL AND OVERLAY
203	2,272	SF	2.5" MILL AND OVERLAY
204	998	SY	SUBGRADE COMPACTION
207	27	CY	STABILIZED CONSTRUCTION ENTRANCE
301	166	CY	6" BITUMINOUS AGGREGATE BASE
304	166	CY	6' AGGREGATE BASE
407	75	GAL	TACK COAT (0.075 GAL/SY)
407	100	GAL	TACK COAT (0.10 GAL/SY)
448*	35	CY	1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE I, MEDIUM TRAFFIC, PG64-22
448*	35	CY	1 1/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE II, MEDIUM TRAFFIC, PG64-22
448*	48	CY	1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE II, MEDIUM TRAFFIC, PG64-22
659	589	SY	SEEDING & MULCHING
SPEC	1	LUMP	PROOF SURVEY, A.P.P.
			STORM
604	2	EA	PRECAST HEADWALL (AA-S168)
901	59	LF	12" STORM PIPE, WITH ITEM 912 BACKFILL
			EROSION CONTROL
207		SY	TEMPORARY SEEDING AND MULCHING
SPEC	6	EA	NO. 2 STONE CHECK DAM
SPEC	1	EA	CONCRETE WASHOUT AREA
SPEC	x	EA	INLET PROTECTION
			MAINTENANCE OF TRAFFIC*
614	1	LUMP	MAINTAINING TRAFFIC

CALCULATED BY: MTR DATE: 06/21/2022 CHECKED BY: JRP 06/21/2022

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PUBLIC ROADWAY WIDENING PLANS
FOR
DUBLIN ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
TYPICAL SECTIONS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	04/02/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

3/24

24-005-RES

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 3:43 PM EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024.00690 TS.DWG

CODED NOTES

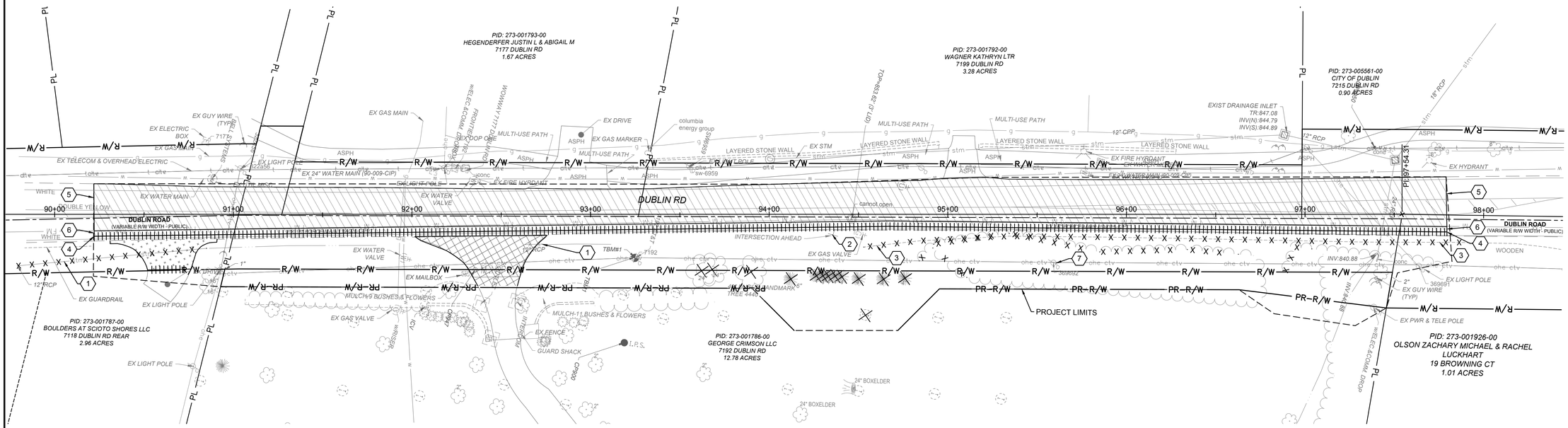
1. EXISTING 12" CULVERT TBR
2. EXISTING INTERSECTION SIGN TO BE RELOCATED
3. EXISTING GUARDRAIL (345' TBR)
4. EXISTING PAVEMENT TO BE SAWCUT (2'-2.5' FROM EOP)
5. EXISTING PAVEMENT TO BE MILLED 1.25"
6. EXISTING PAVEMENT WITHIN 3' OF SAWCUT LINE TO BE MILLED 2.5"
7. EXISTING POLE TO BE RELOCATED, COORDINATE WITH UTILITY PROVIDER

DEMOLITION LEGEND

- TBR — TO BE REMOVED
- TBRO — TO BE REMOVED BY OTHERS
- TBRR — TO BE REMOVED AND REPLACED
- ASPHALT PAVEMENT TO BE REMOVED
- CONCRETE PAVEMENT TO BE REMOVED
- MILLING LIMITS
- —X—X—X— ITEM TO BE REMOVED
- PAVEMENT TO BE SAWCUT
- TREE TO BE REMOVED
- SPRINKLER HEAD TO BE REMOVED

EXISTING LEGEND

- PL — PROPERTY LINE
- R/W — RIGHT-OF-WAY
- PAVEMENT/ SIDEWALK
- PAVEMENT STRIPING
- CURB
- ROAD CENTERLINE
- TREE DRIP LINE
- FENCE
- STREAM
- stm — STORM SEWER
- san — SANITARY SEWER
- w — WATER LINE
- g — GAS LINE
- fo — FIBER OPTIC LINE
- e — ELECTRIC
- ohe — OVERHEAD ELECTRIC
- t — TELECOMMUNICATION
- ctv — CABLE TELEVISION



NOTES:

CONTRACTOR TO PROTECT ALL UTILITY POLES DURING CONSTRUCTION.

24-005-RES

HORZ 1"=30' 0 30 60

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PUBLIC ROADWAY WIDENING PLANS FOR
DUBLIN ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

DEMOLITION PLAN

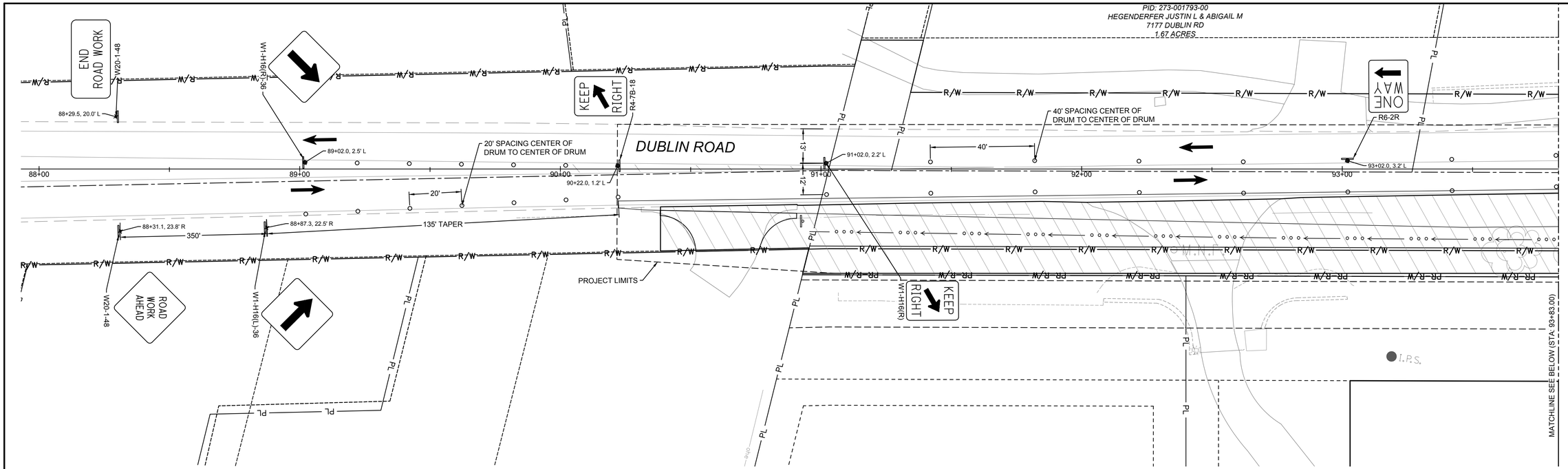
REVISIONS	DATE	SHEET NO.	DESCRIPTION

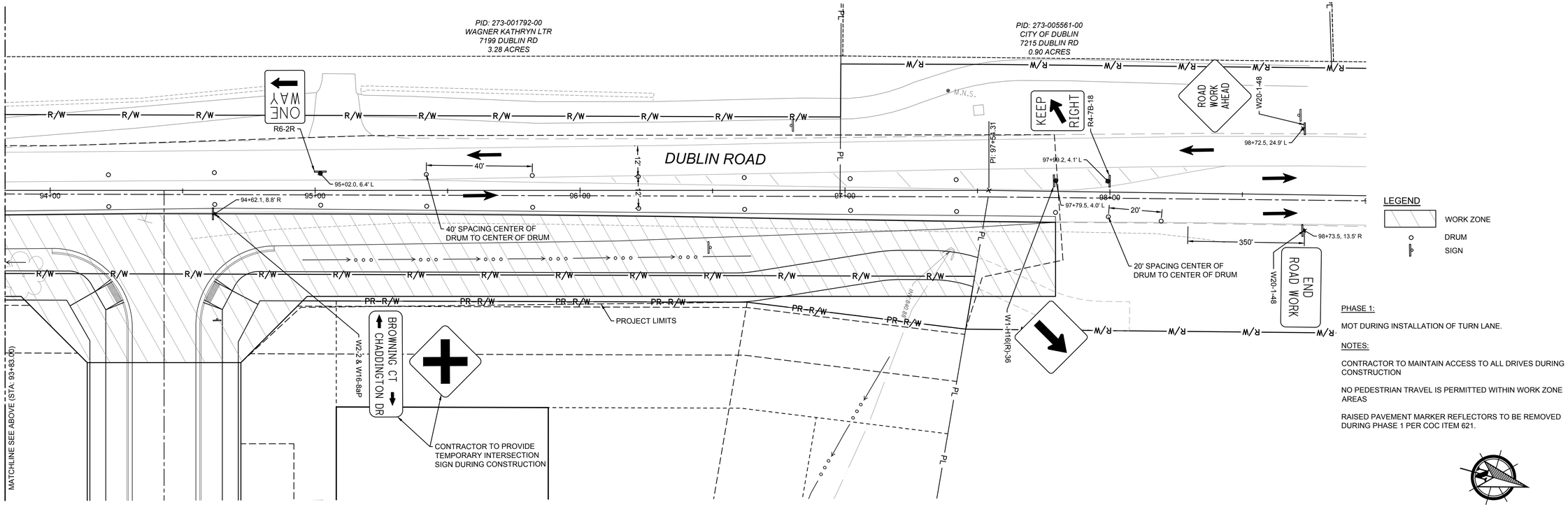
APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	04/02/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

4/24

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 3:57 PM EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024_00690 EC&DP.DWG





LEGEND

- WORK ZONE
- DRUM
- SIGN

PHASE 1:

MOT DURING INSTALLATION OF TURN LANE.

NOTES:

CONTRACTOR TO MAINTAIN ACCESS TO ALL DRIVES DURING CONSTRUCTION

NO PEDESTRIAN TRAVEL IS PERMITTED WITHIN WORK ZONE AREAS

RAISED PAVEMENT MARKER REFLECTORS TO BE REMOVED DURING PHASE 1 PER COC ITEM 621.

24-005-RES

HORZ 1"=20' 0 20 40

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 2:18 PM EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024.00690 MOT.DWG

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PUBLIC ROADWAY WIDENING PLANS
FOR
DUBLIN ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

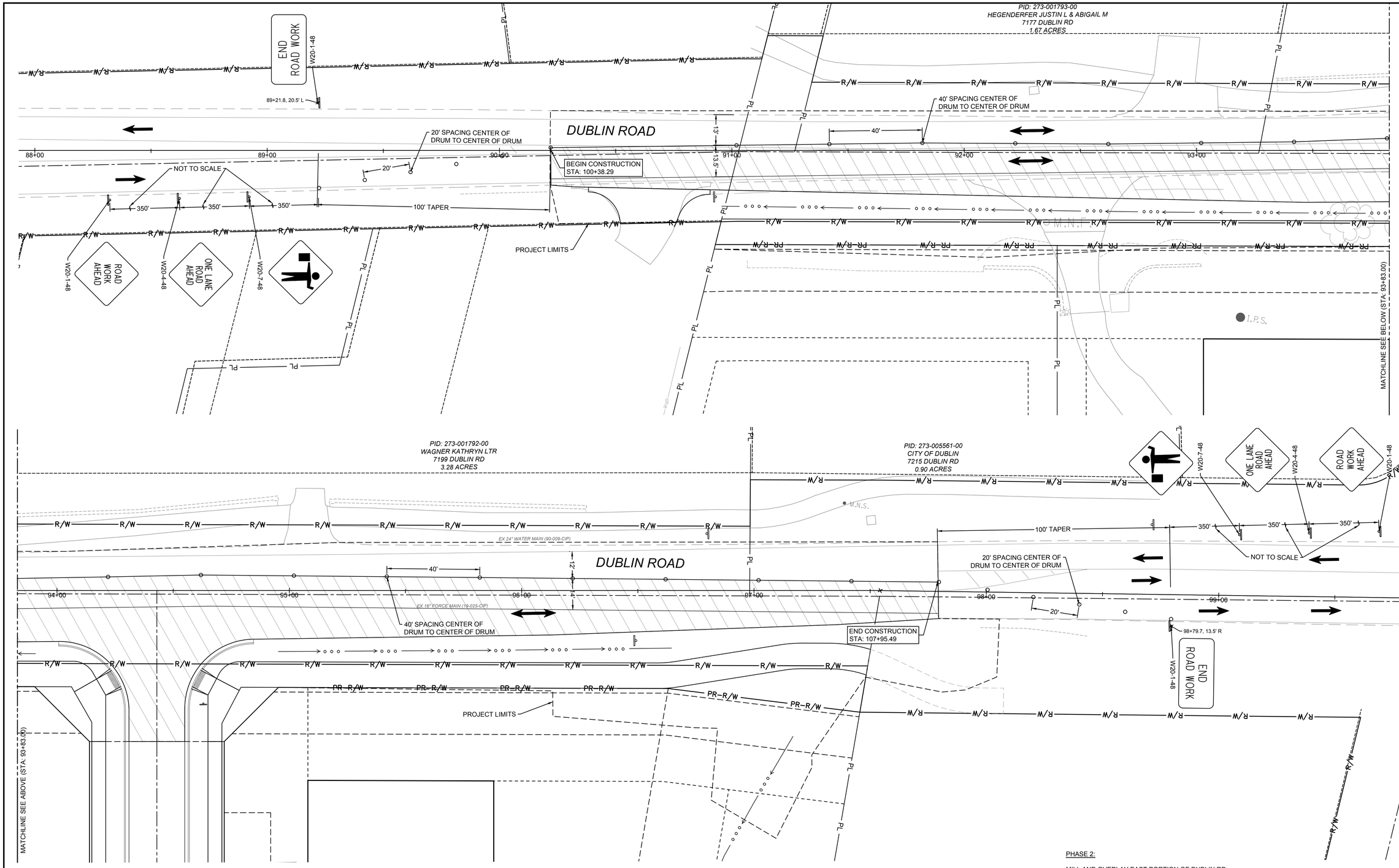
MAINTENANCE OF TRAFFIC PLAN PHASE 1

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	04/02/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

5/24



LEGEND

- WORK ZONE
- DRUM
- SIGN
- TRAFFIC FLOW

PHASE 2:

MILL AND OVERLAY EAST PORTION OF DUBLIN RD.

NOTES:

CONTRACTOR TO MAINTAIN ACCESS TO ALL DRIVES DURING CONSTRUCTION

NO PEDESTRIAN TRAVEL IS PERMITTED WITHIN WORK ZONE AREAS

RAISED PAVEMENT MARKER REFLECTORS TO BE REMOVED DURING PHASE 1 PER COC ITEM 621.

24-005-RES

HORZ 1"=20' 0 20 40

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MAINTENANCE OF TRAFFIC PLAN PHASE 2

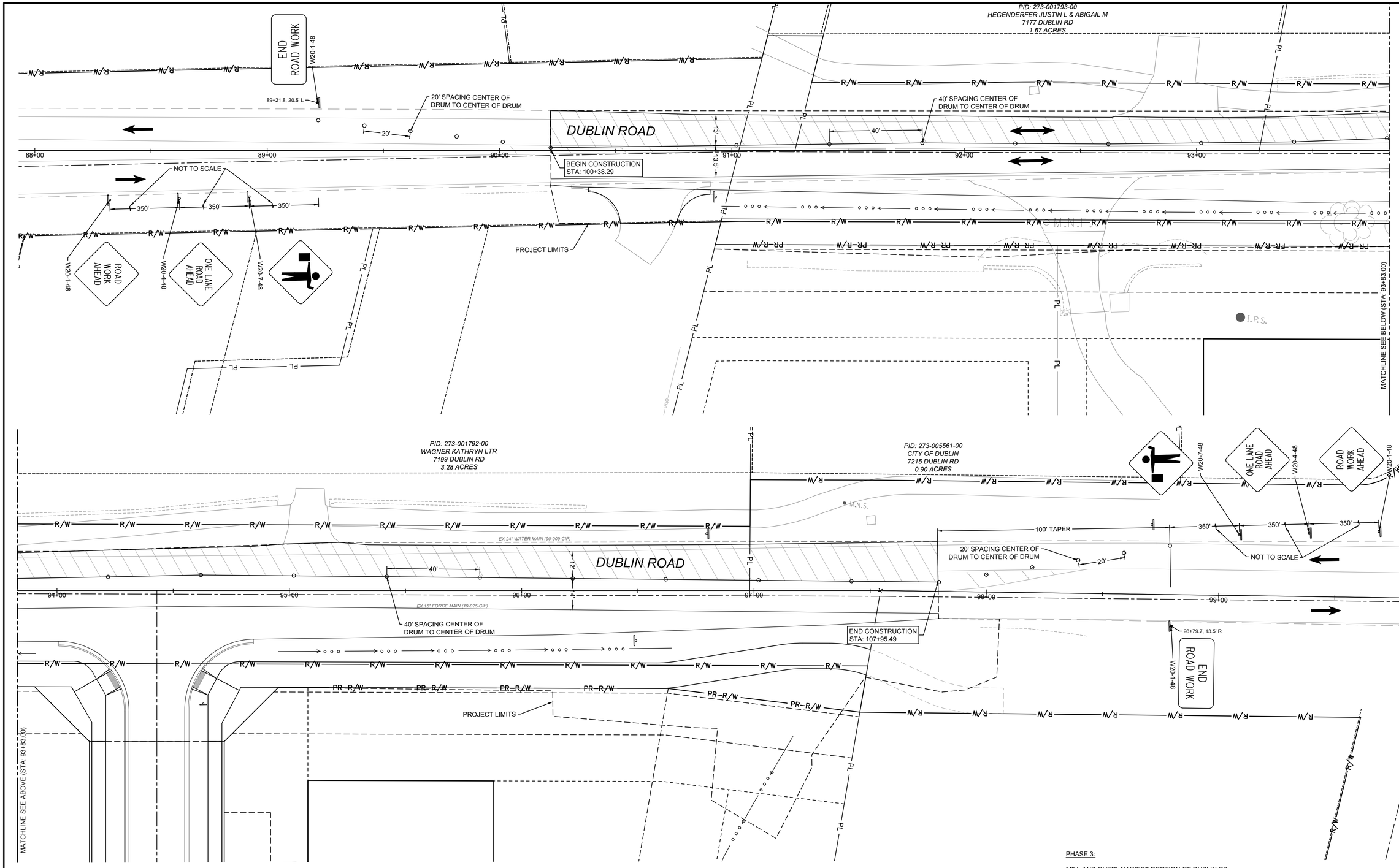
REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	04/02/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

6/24

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 2:18 PM EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\C\VIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024.00690 MOT P2.DWG



LEGEND

- WORK ZONE
- DRUM
- SIGN
- TRAFFIC FLOW

PHASE 3:

MILL AND OVERLAY WEST PORTION OF DUBLIN RD.

NOTES:

CONTRACTOR TO MAINTAIN ACCESS TO ALL DRIVES DURING CONSTRUCTION

NO PEDESTRIAN TRAVEL IS PERMITTED WITHIN WORK ZONE AREAS

RAISED PAVEMENT MARKER REFLECTORS TO BE REMOVED DURING PHASE 1 PER COC ITEM 621.

24-005-RES

HORZ 1"=20' 0 20 40

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MAINTENANCE OF TRAFFIC PLAN PHASE 3

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
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DATE:	04/02/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

7/24

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 2:18 PM EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024.00690 MOT P2.DWG

PID: 273-001793-00
HEGENDERFER JUSTIN L & ABIGAIL M
7177 DUBLIN RD
1.67 ACRES

DUBLIN ROAD

BEGIN CONSTRUCTION
STA: 100+38.29

PID: 273-001787-00
BOULDERS AT SCIOTO SHORES LLC
7118 DUBLIN RD REAR
2.96 ACRES

6
Area: 56,805 SF
(1.30 AC)

MATCHLINE: SEE BELOW

LIU COURT

PID: 273-001792-00
WAGNER KATHRYN LTR
7199 DUBLIN RD
3.28 ACRES

PID: 273-005561-00
CITY OF DUBLIN
7215 DUBLIN RD
0.90 ACRES

END CONSTRUCTION
STA: 107+95.49

1
Area: 40,065 SF
(0.92 AC)

PID: 273-001926-00
OLSON ZACHARY MICHAEL & RACHEL
LUCKHART
19 BROWNING CT
1.01 ACRES

EXISTING LEGEND

- PL — PROPERTY LINE
- R/W — RIGHT-OF-WAY
- PAVEMENT/ SIDEWALK
- PAVEMENT STRIPING
- CURB
- ROAD CENTERLINE
- TREE DRIP LINE
- FENCE
- STREAM
- stm — STORM SEWER
- san — SANITARY SEWER
- w — WATER LINE
- g — GAS LINE
- fo — FIBER OPTIC LINE
- e — ELECTRIC
- ohe — OVERHEAD ELECTRIC
- t — TELECOMMUNICATION
- ctv — CABLE TELEVISION

SITE LEGEND

- PL — PROPERTY LINE
- R/W — RIGHT-OF-WAY
- STRAIGHT CURB
- CURB AND GUTTER
- SIGN
- PAVEMENT MARKINGS

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PUBLIC ROADWAY WIDENING PLANS
FOR
DUBLIN ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

SCHEMATIC PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

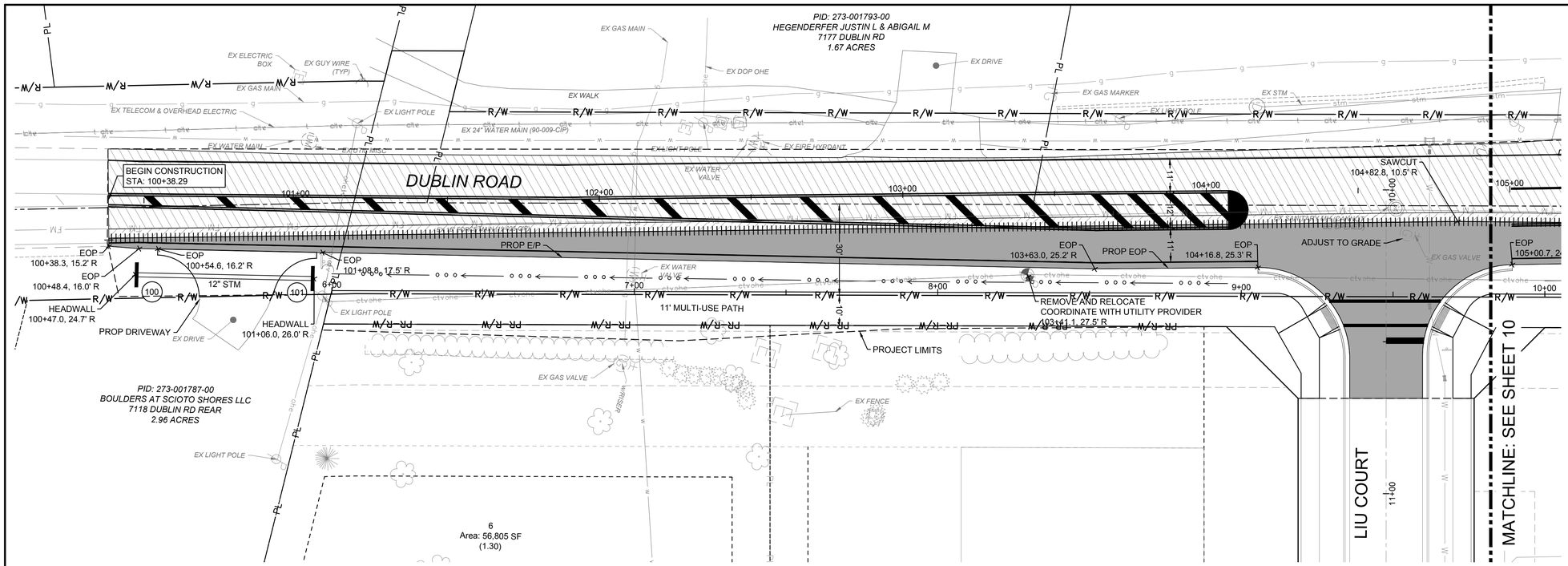
DATE:	04/02/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

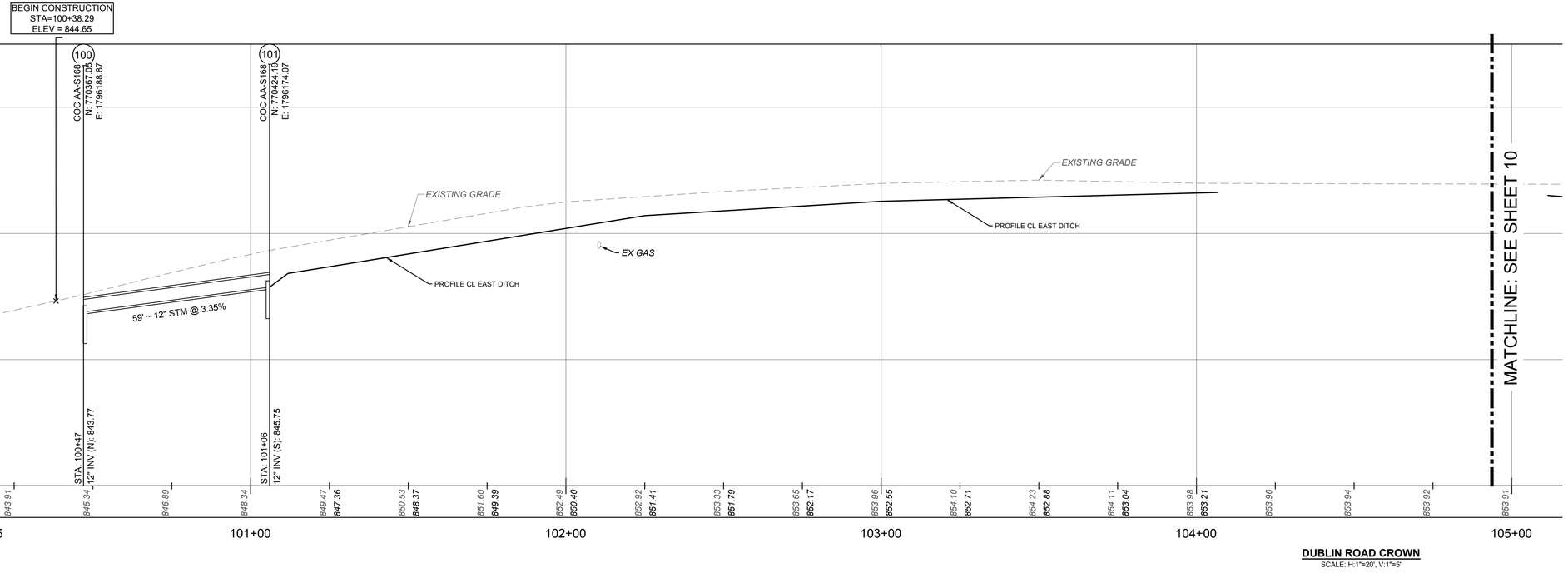
8/24

24-005-RES

HORZ 1"=20' 0 20 40

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 3:59 PM EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024.00690 SP.DWG





DUBLIN ROAD CROWN
SCALE: H:1"=20', V:1"=5'

EXISTING LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY
- PAVEMENT/ SIDEWALK
- PAVEMENT STRIPING
- CURB
- ROAD CENTERLINE
- TREE DRIP LINE
- FENCE
- STREAM
- STORM SEWER
- SANITARY SEWER
- WATER LINE
- GAS LINE
- FIBER OPTIC LINE
- ELECTRIC
- OVERHEAD ELECTRIC
- TELECOMMUNICATION
- CABLE TELEVISION

SITE LEGEND

- STRAIGHT CURB
- CURB AND GUTTER
- SIGN
- PROPOSED MILL & OVERLAY (1.25" DEPTH)
- PROPOSED MILL & OVERLAY (2.5" DEPTH)
- PROPOSED NEW ASPHALT PAVEMENT
- PAVEMENT MARKINGS

UTILITY LEGEND

- SAN — SANITARY MAIN
- W — WATER
- STM — STORM SEWER MAIN
- XX — HEADWALL
- XX — SANITARY MANHOLE
- FIRE HYDRANT
- WV — WATER VALVE
- WM — WATER MAIN
- WATER TEE
- WATER BEND
- WATER REDUCER

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PUBLIC ROADWAY WIDENING PLANS
FOR
DUBLIN ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

PLAN & PROFILE

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
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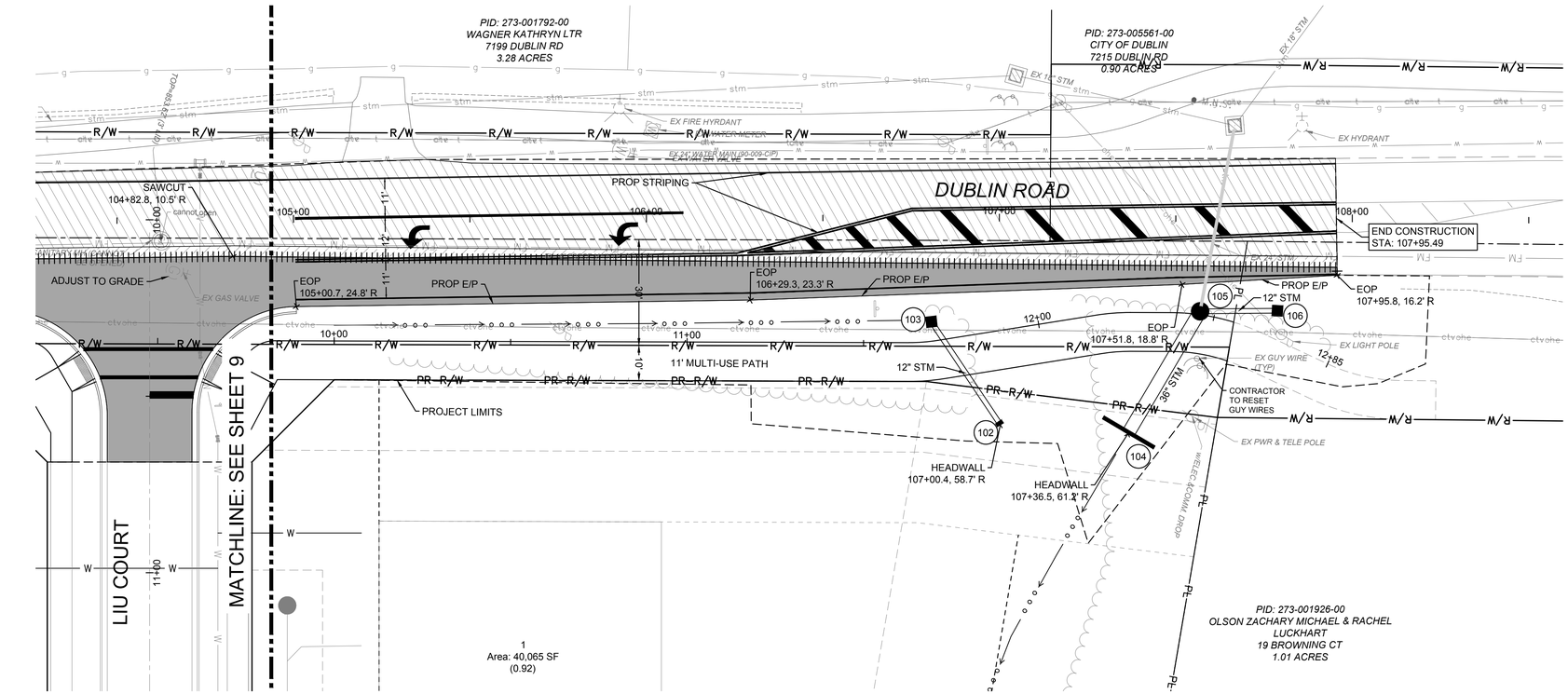
DATE:	04/02/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

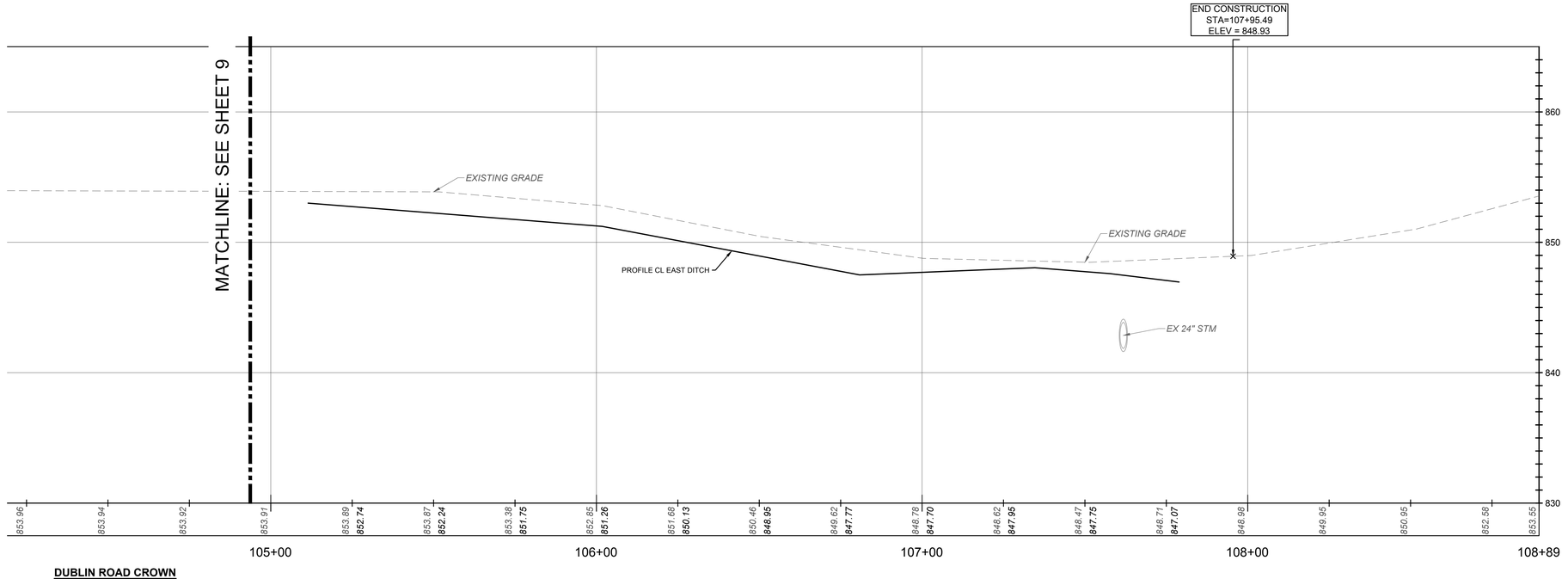
9/24

24-005-RES

HORZ 1"=20' 0 20 40

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 3:58 PM EDITED BY: MJLUE DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024.00690 P&P.DWG





DUBLIN ROAD CROWN
SCALE: H:1"=20', V:1"=5'

EXISTING LEGEND

- PL — PROPERTY LINE
- R/W — RIGHT-OF-WAY
- PAVEMENT/ SIDEWALK
- PAVEMENT STRIPING
- CURB
- ROAD CENTERLINE
- TREE DRIP LINE
- FENCE
- STREAM
- stm — STORM SEWER
- san — SANITARY SEWER
- w — WATER LINE
- g — GAS LINE
- fo — FIBER OPTIC LINE
- e — ELECTRIC
- ohe — OVERHEAD ELECTRIC
- t — TELECOMMUNICATION
- ctv — CABLE TELEVISION

SITE LEGEND

- STRAIGHT CURB
- CURB AND GUTTER
- SIGN
- PROPOSED MILL & OVERLAY (1.5" DEPTH)
- PROPOSED MILL & OVERLAY (2.5" DEPTH)
- PROPOSED NEW ASPHALT PAVEMENT
- PAVEMENT MARKINGS

UTILITY LEGEND

- SAN — SANITARY MAIN
- W — WATER
- STM — STORM SEWER MAIN
- (XX) — HEADWALL
- (XX) — SANITARY MANHOLE
- FIRE HYDRANT
- WV — WATER VALVE
- WM — WATER MAIN
- WATER TEE
- WATER BEND
- WATER REDUCER

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PUBLIC ROADWAY WIDENING PLANS
FOR
DUBLIN ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
PLAN & PROFILE

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
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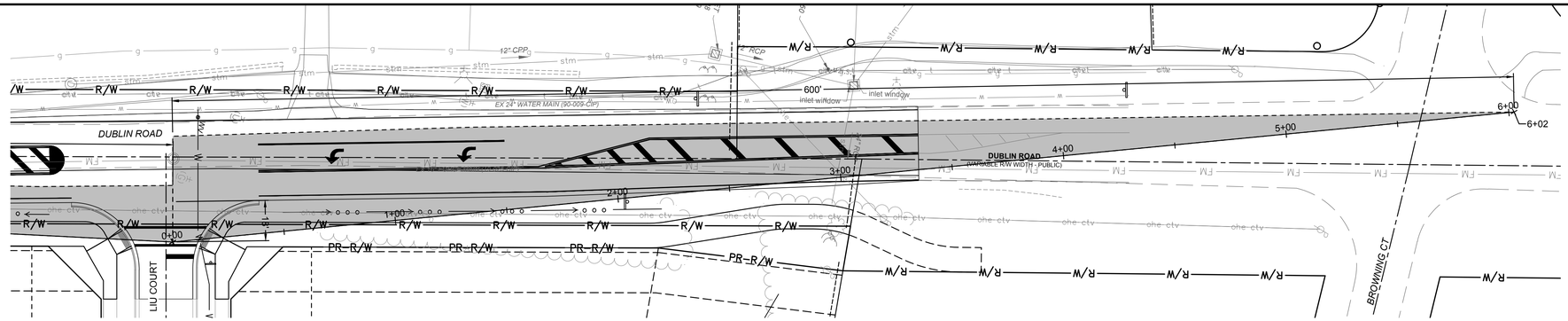
DATE:	04/02/2025
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JOB NUMBER:	2024.00690

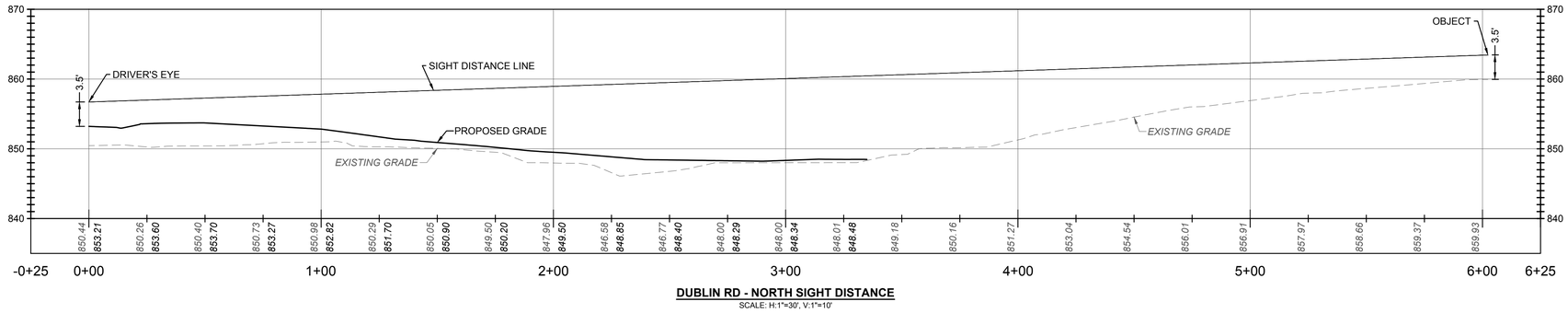
10/24

24-005-RES

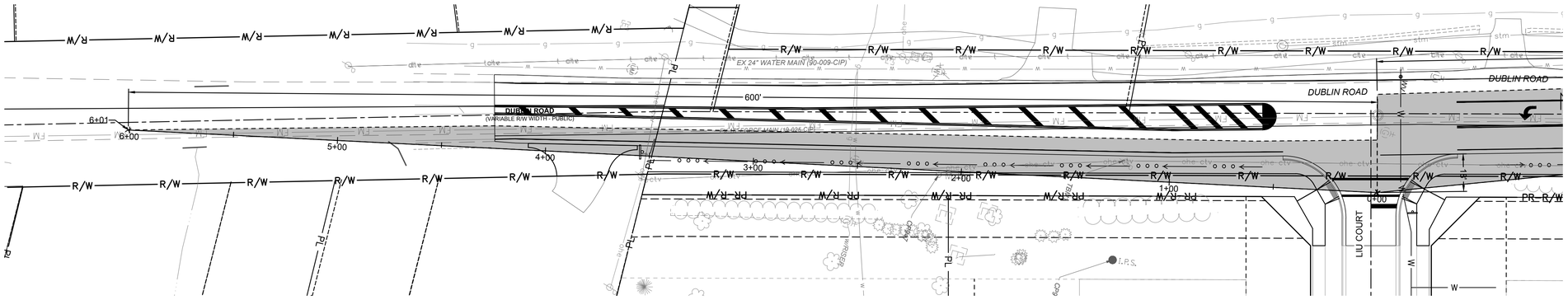
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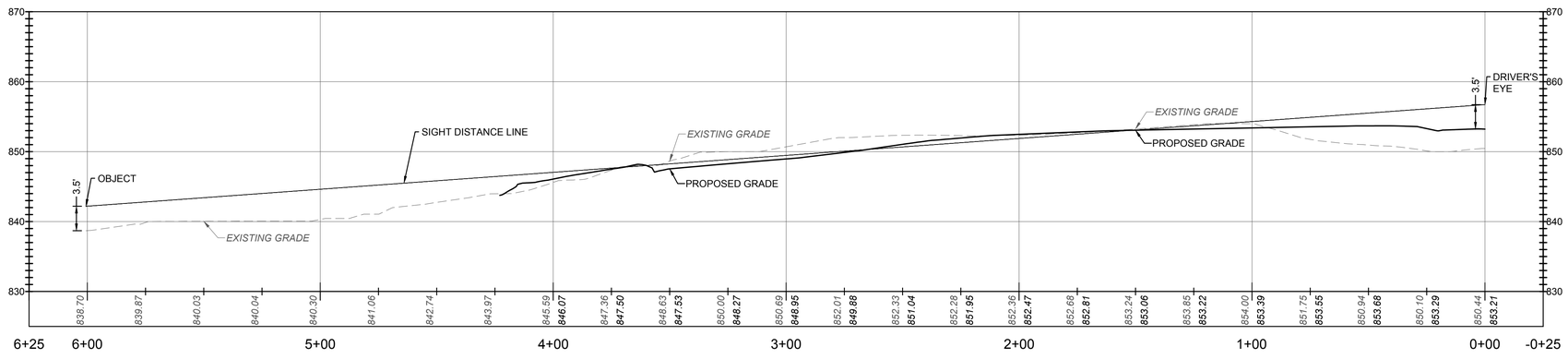
PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 3:58 PM EDITED BY: MJLUE DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024.00690 P&P.DWG





DUBLIN RD - NORTH SIGHT DISTANCE
SCALE: H:1"=30', V:1"=10'





DUBLIN RD SOUTH SIGHT DISTANCE
SCALE: H:1"=30', V:1"=10'

VERT 1"=10' 0 10 20
HORZ 1"=30' 0 30 60

24-005-RES

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CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

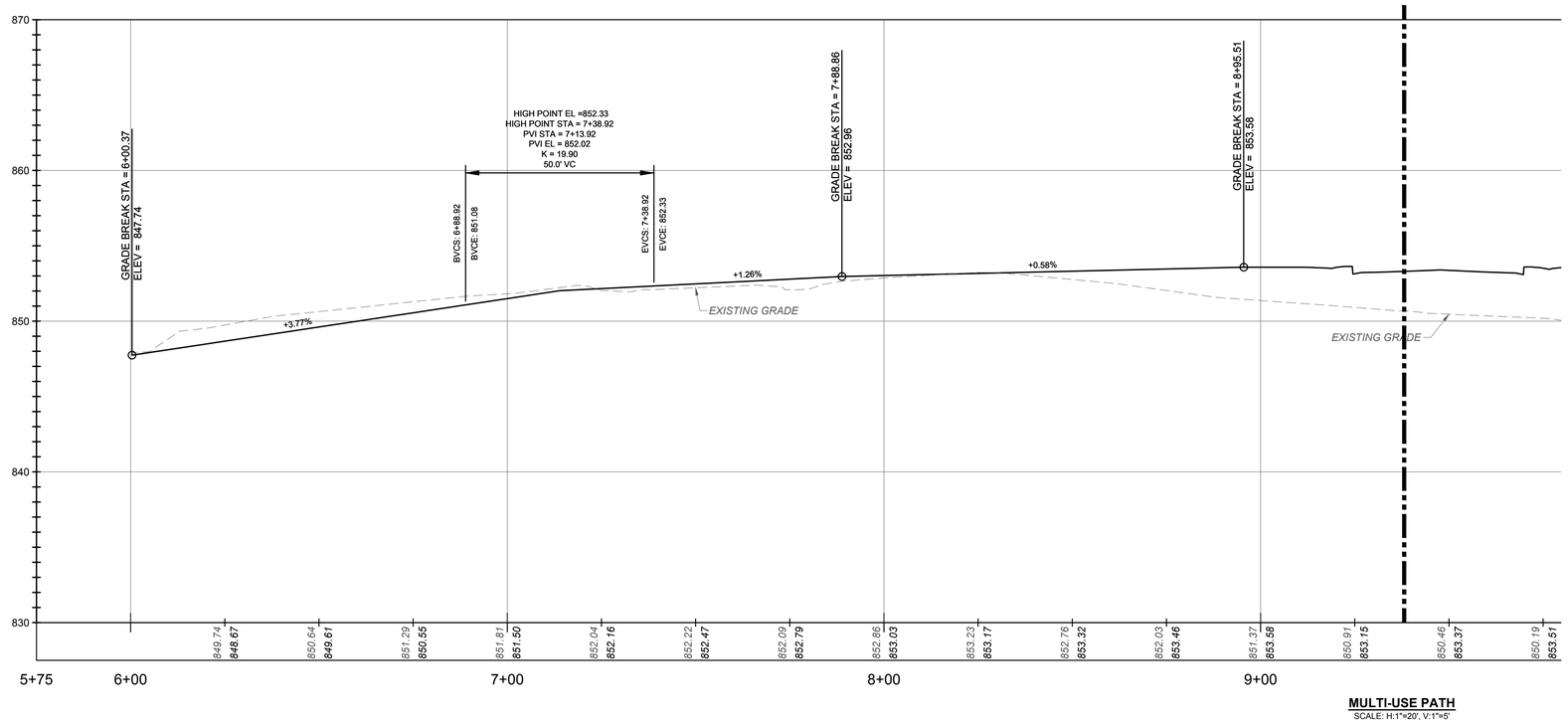
SIGHT DISTANCE PLAN

REVISIONS	SHEET NO.	DATE	DESCRIPTION

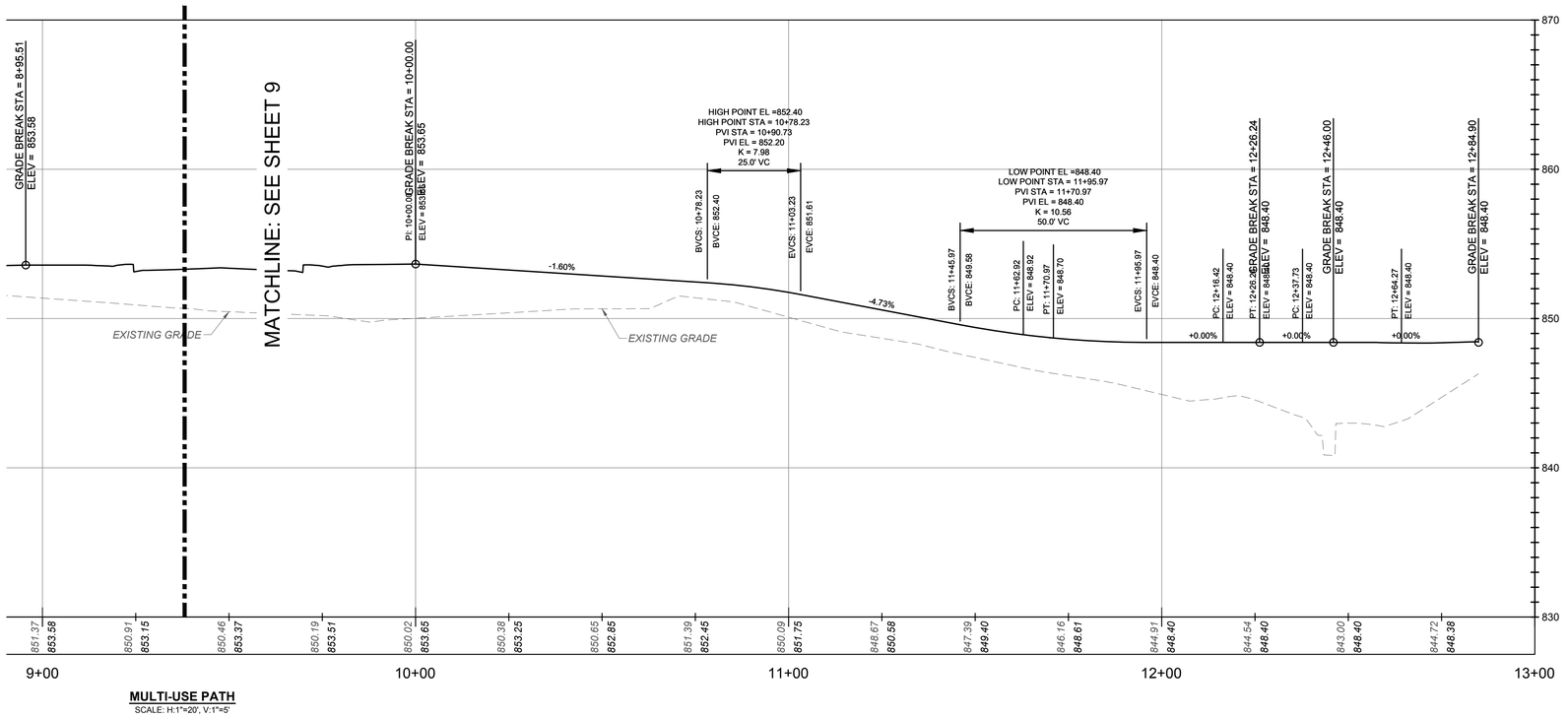
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DATE:	04/02/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

PLOT SCALE: 1:1 EDIT DATE: 7/15/25 - 2:28 PM EDITED BY: MLILIE DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024.00690_SIGHT.DWG



MULTI-USE PATH
SCALE: H:1"=20', V:1"=5'



MULTI-USE PATH
SCALE: H:1"=20', V:1"=5'

EXISTING LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY
- PAVEMENT/ SIDEWALK
- PAVEMENT STRIPING
- CURB
- ROAD CENTERLINE
- TREE DRIP LINE
- FENCE
- STREAM
- STORM SEWER
- SANITARY SEWER
- WATER LINE
- GAS LINE
- FIBER OPTIC LINE
- ELECTRIC
- OVERHEAD ELECTRIC
- TELECOMMUNICATION
- CABLE TELEVISION

SITE LEGEND

- STRAIGHT CURB
- CURB AND GUTTER
- SIGN
- PROPOSED MILL & OVERLAY (1.5" DEPTH)
- PROPOSED MILL & OVERLAY (2.5" DEPTH)
- PROPOSED NEW ASPHALT PAVEMENT
- PAVEMENT MARKINGS

UTILITY LEGEND

- SANITARY MAIN
- WATER
- STORM SEWER MAIN
- HEADWALL
- SANITARY MANHOLE
- FIRE HYDRANT
- WATER VALVE
- WATER MAIN
- WATER TEE
- WATER BEND
- WATER REDUCER

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PUBLIC ROADWAY WIDENING PLANS
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CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

MULTI-USE PATH PROFILE

REVISIONS	DATE	SHEET NO.	DESCRIPTION

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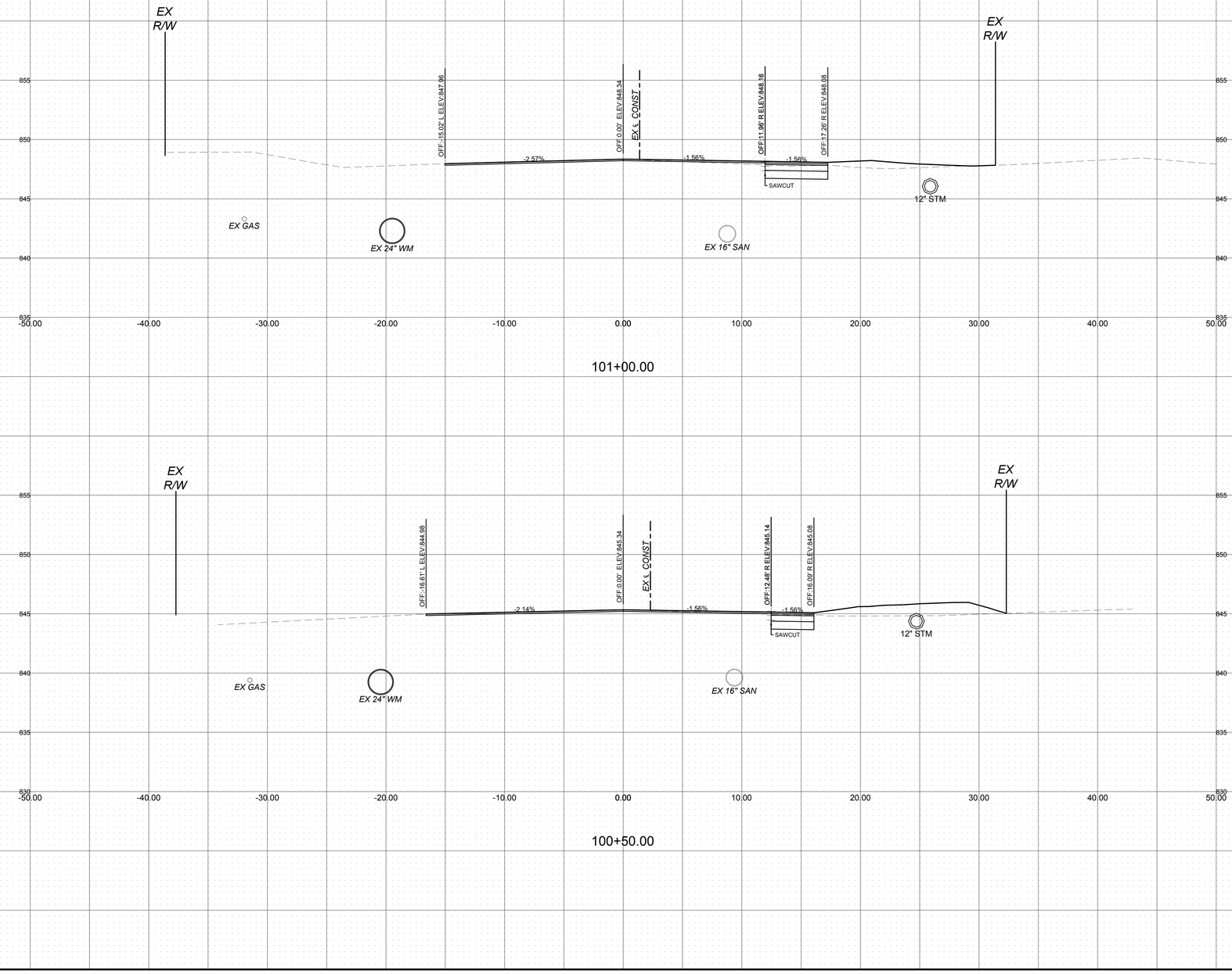
DATE:	04/02/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

11/24

24-005-RES

HORZ 1"=20' 0 20 40

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 3:58 PM EDITED BY: MJLUE DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024.00690 P&P.DWG



PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 2:55 PM EDITED BY: DANIGERAH DRAWING FILE: \COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024.00690 CROSS.DWG

VERT 1"=5' 0 5 10
HORZ 1"=5' 0 5 10

24-005-RES

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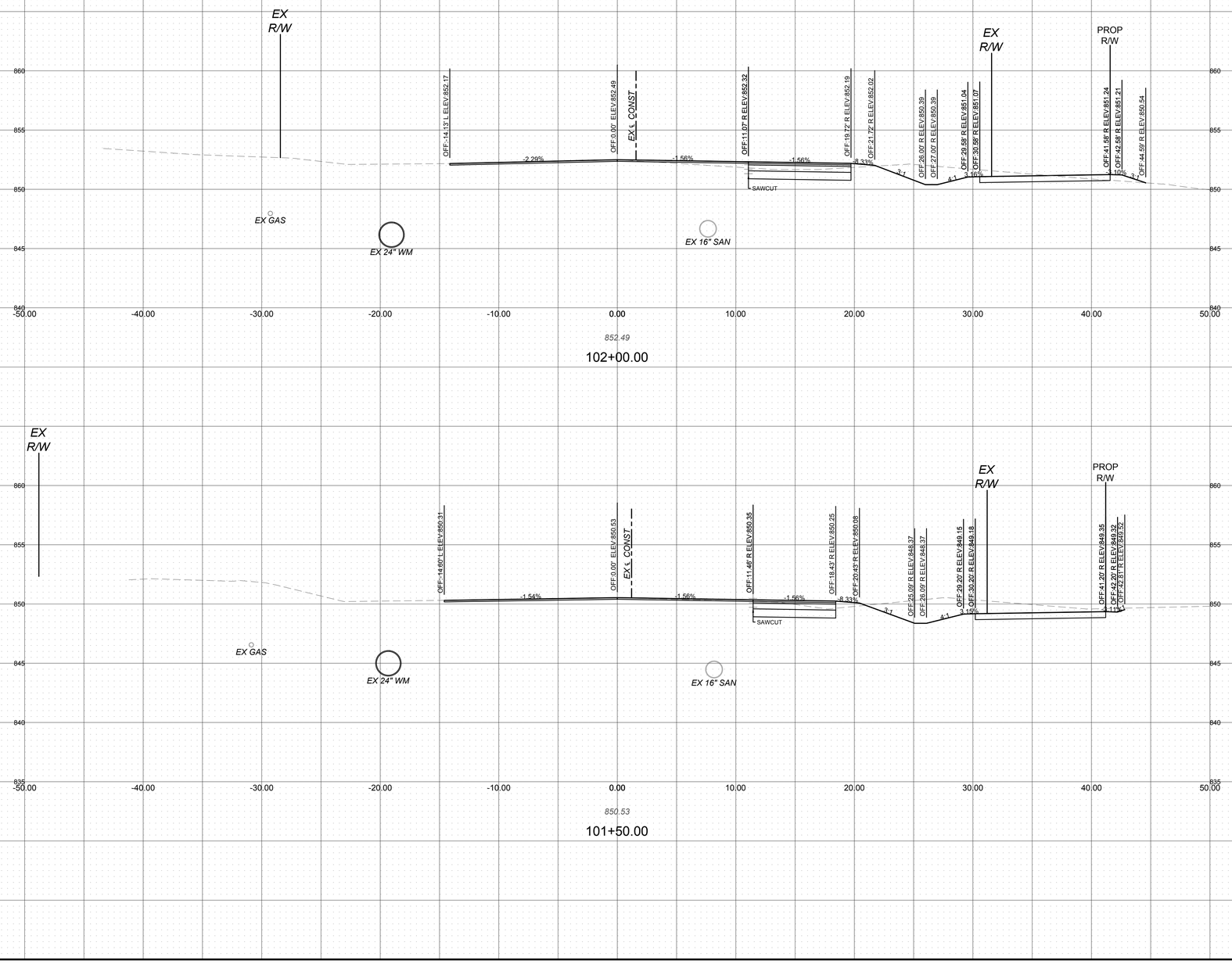
DUBLIN RD CROSS SECTIONS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
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DATE:	04/02/2025
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12/24



24-005-RES

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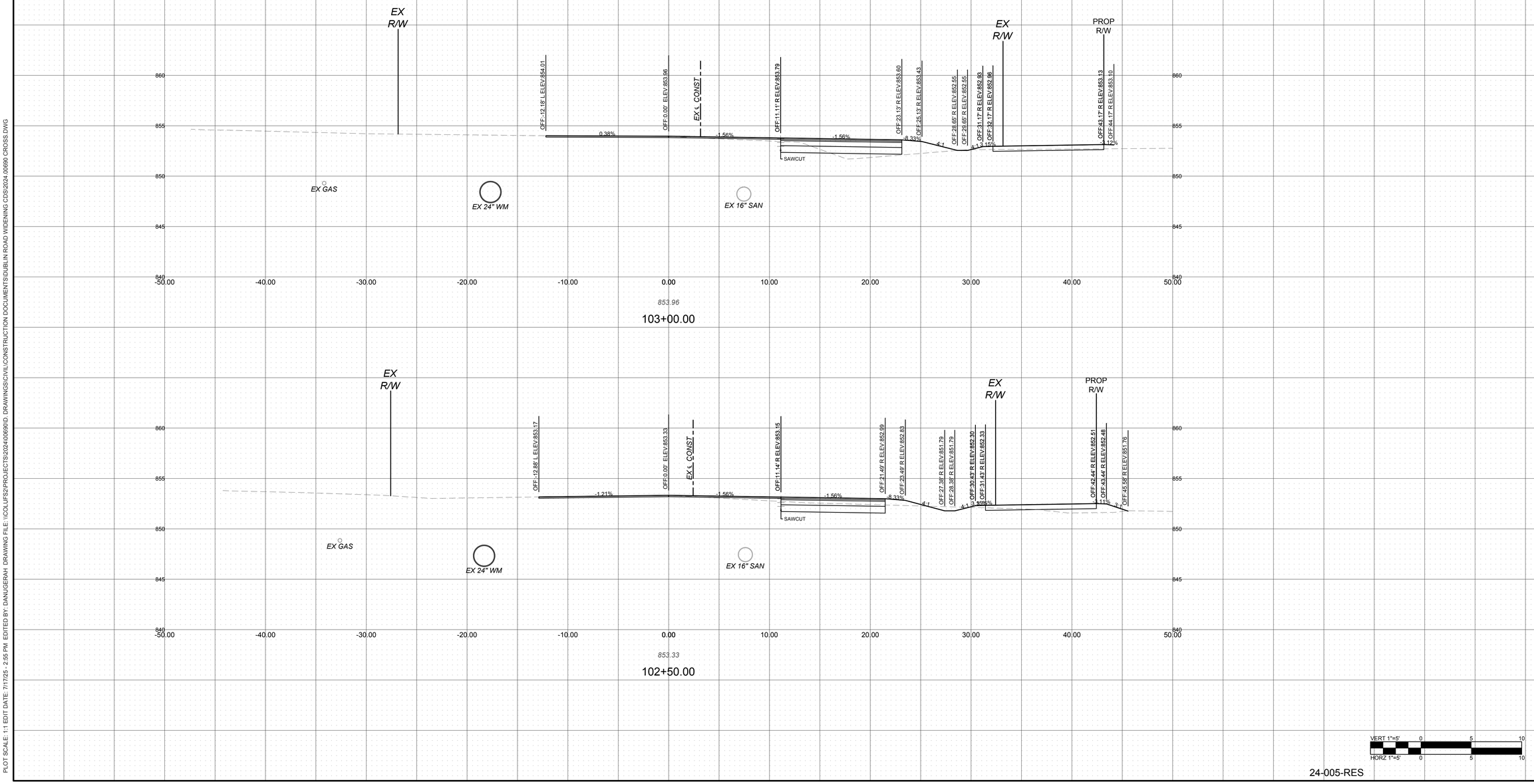
PUBLIC ROADWAY WIDENING PLANS
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CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

DUBLIN RD CROSS SECTIONS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	04/02/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690



24-005-RES

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 2:55 PM EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024.00690 CROSS.DWG

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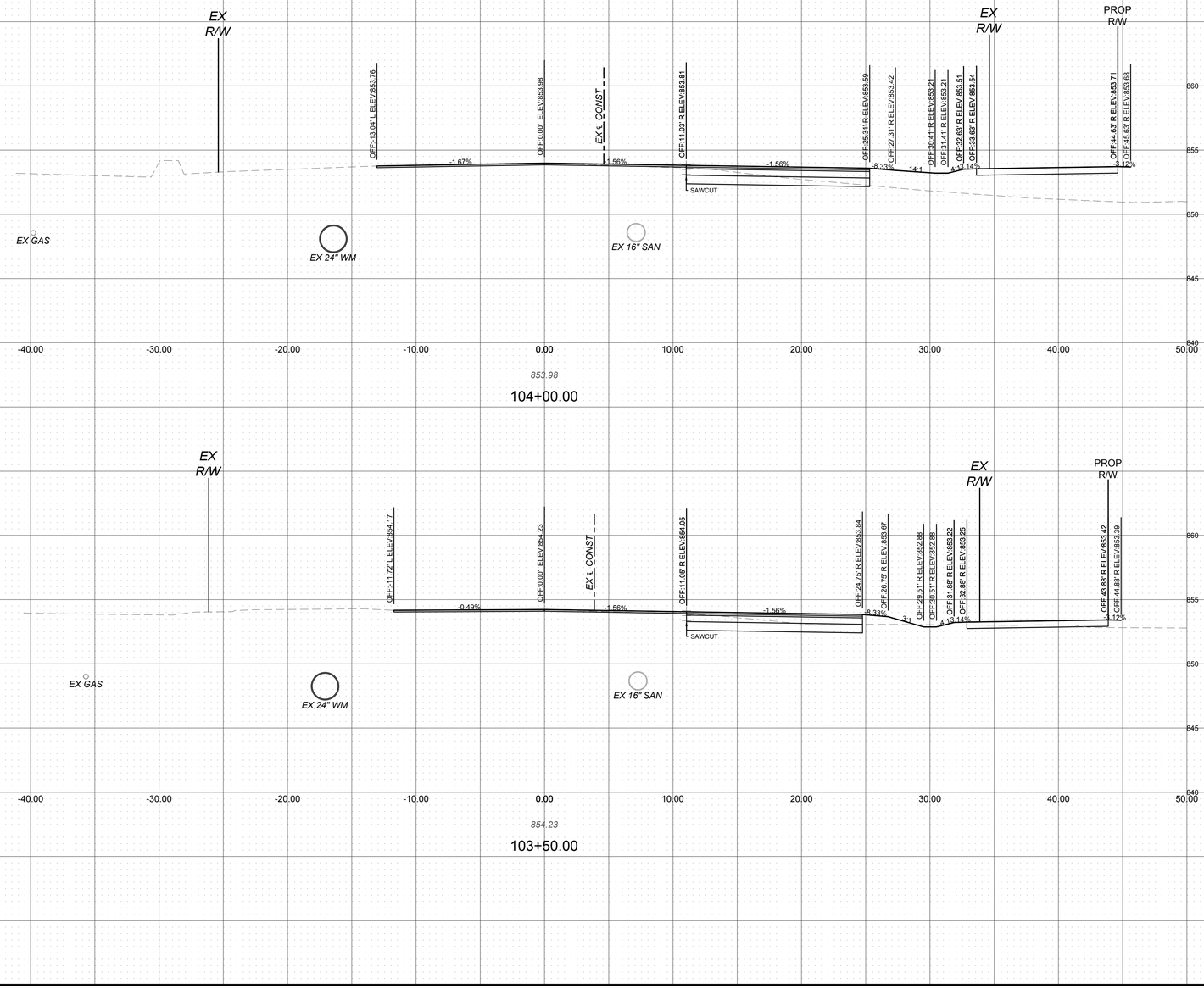
PUBLIC ROADWAY WIDENING PLANS
FOR
DUBLIN ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

DUBLIN RD CROSS SECTIONS

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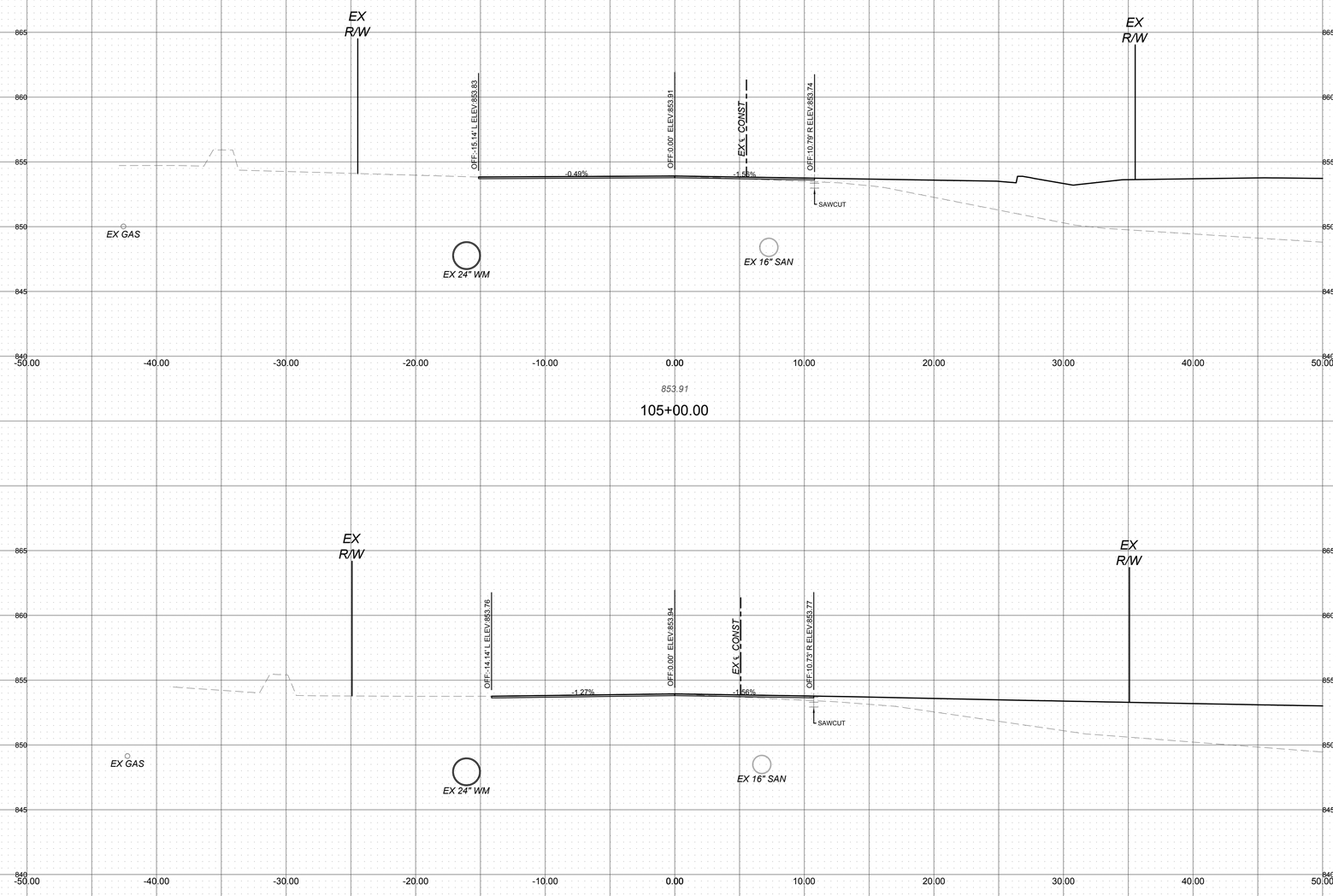
PUBLIC ROADWAY WIDENING PLANS
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VERT 1"=5' 0 5 10
HORZ 1"=5' 0 5 10

24-005-RES

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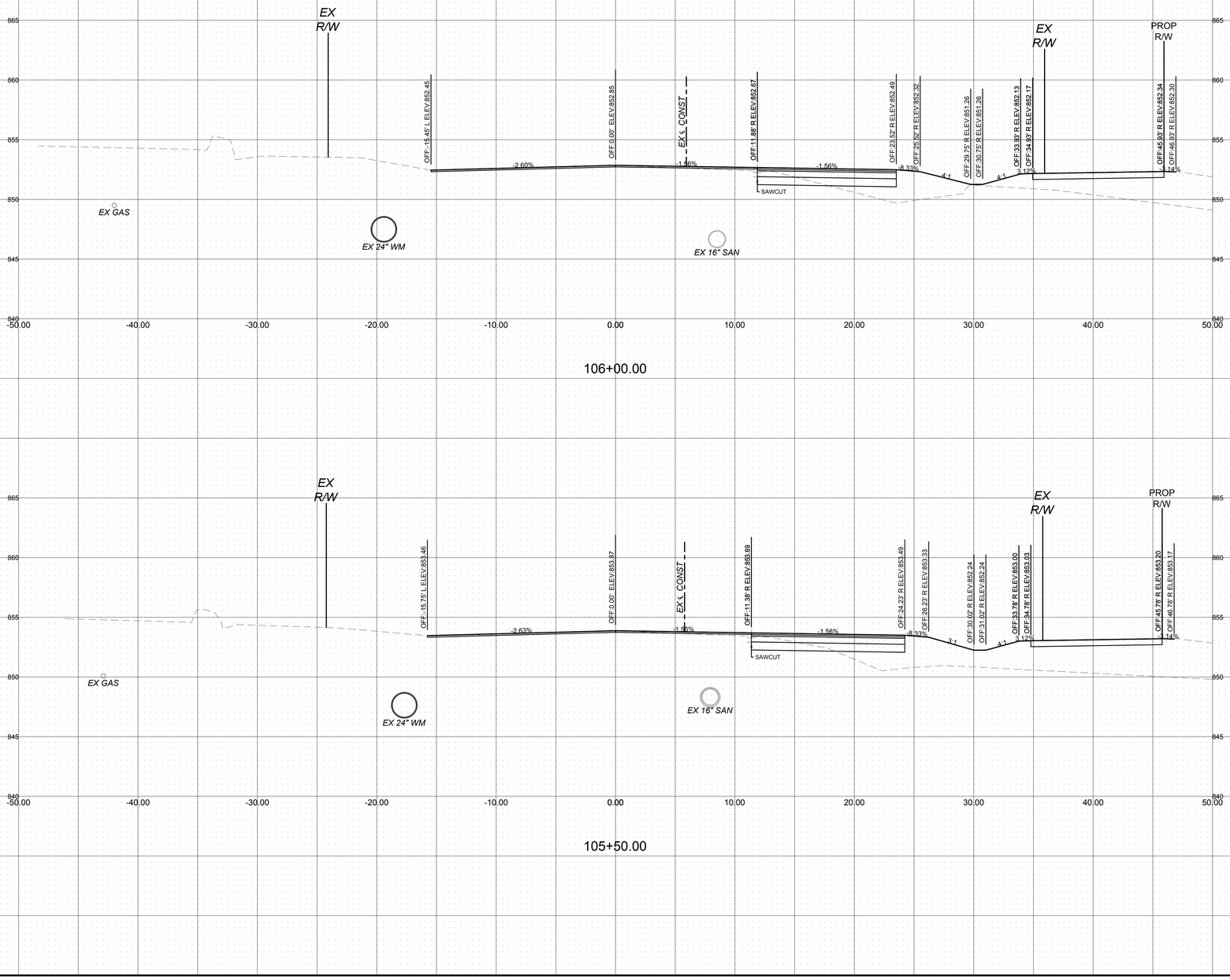
PUBLIC ROADWAY WIDENING PLANS
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CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

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VERT 1"=5' 0 5 10
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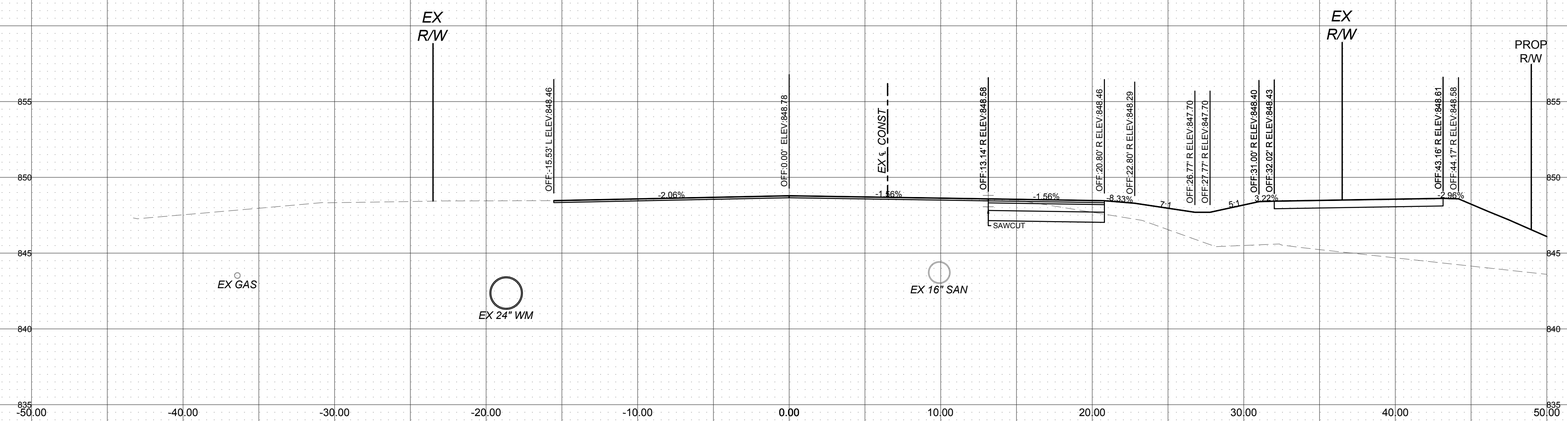
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DUBLIN RD CROSS SECTIONS

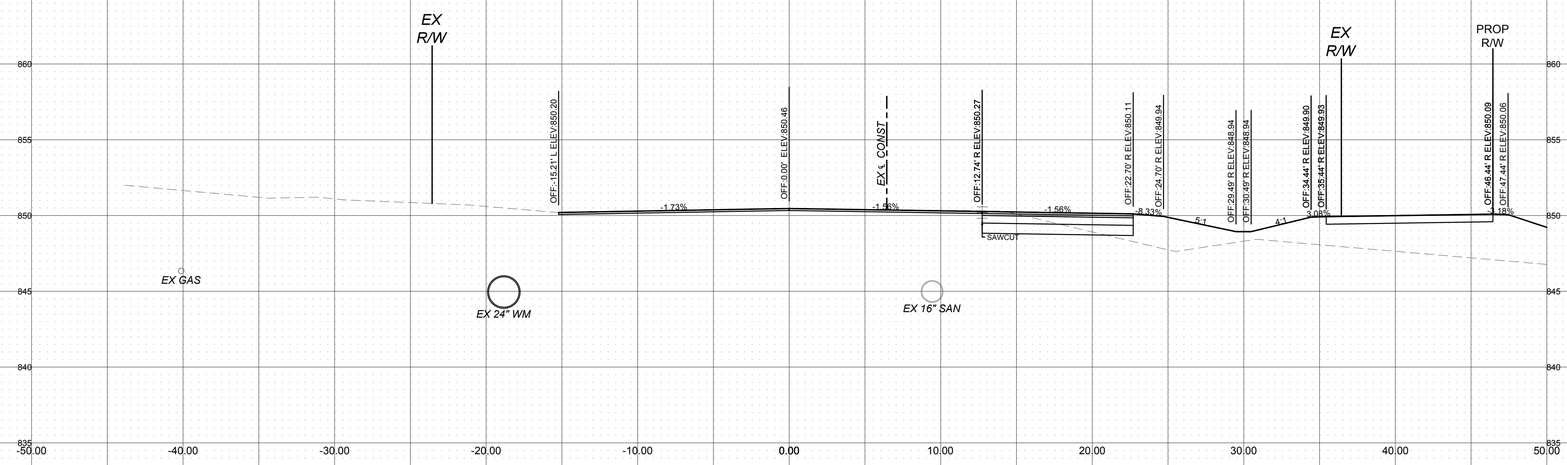
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107+00.00



106+50.00

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HORZ 1"=5' 0 5 10

24-005-RES

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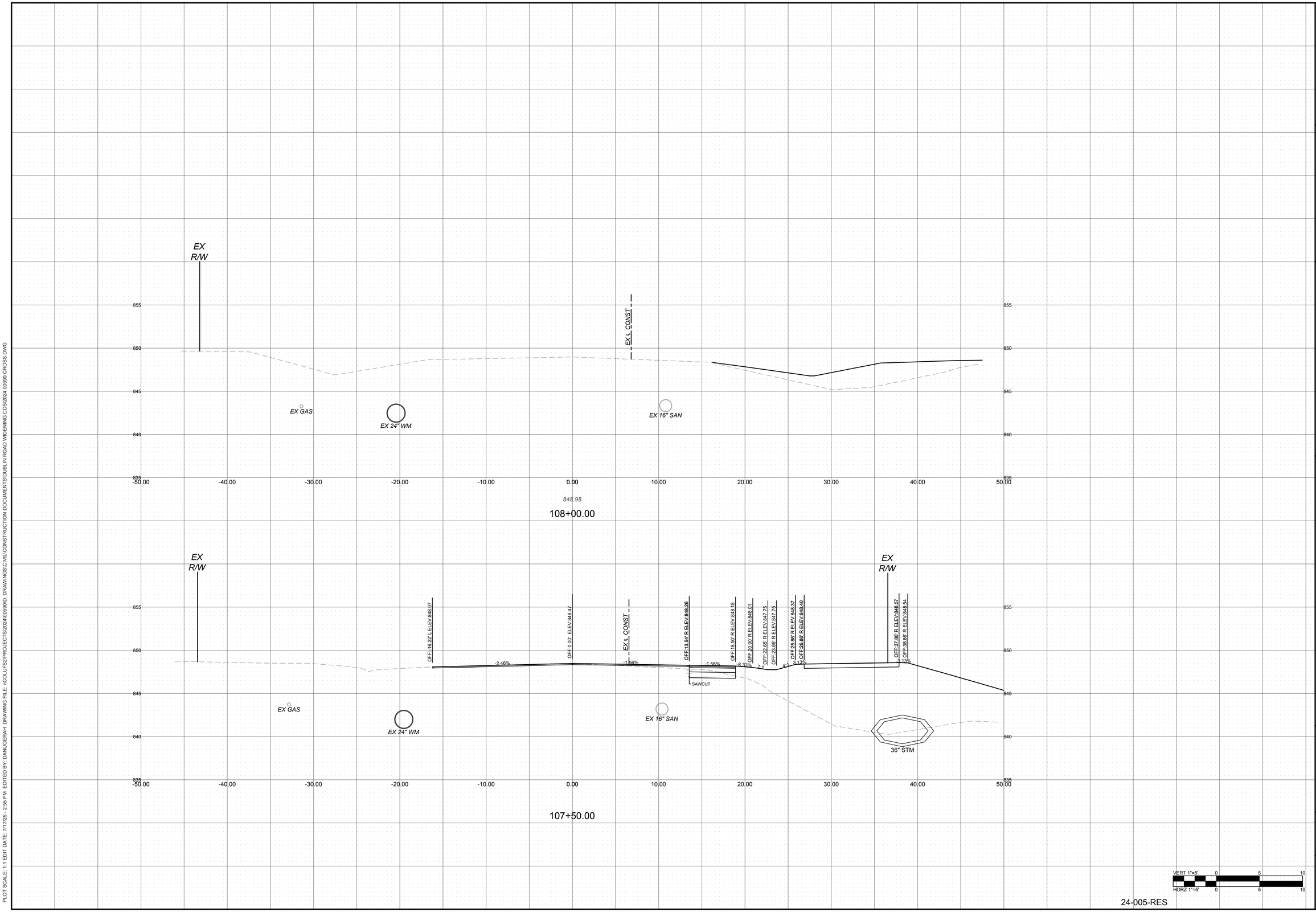
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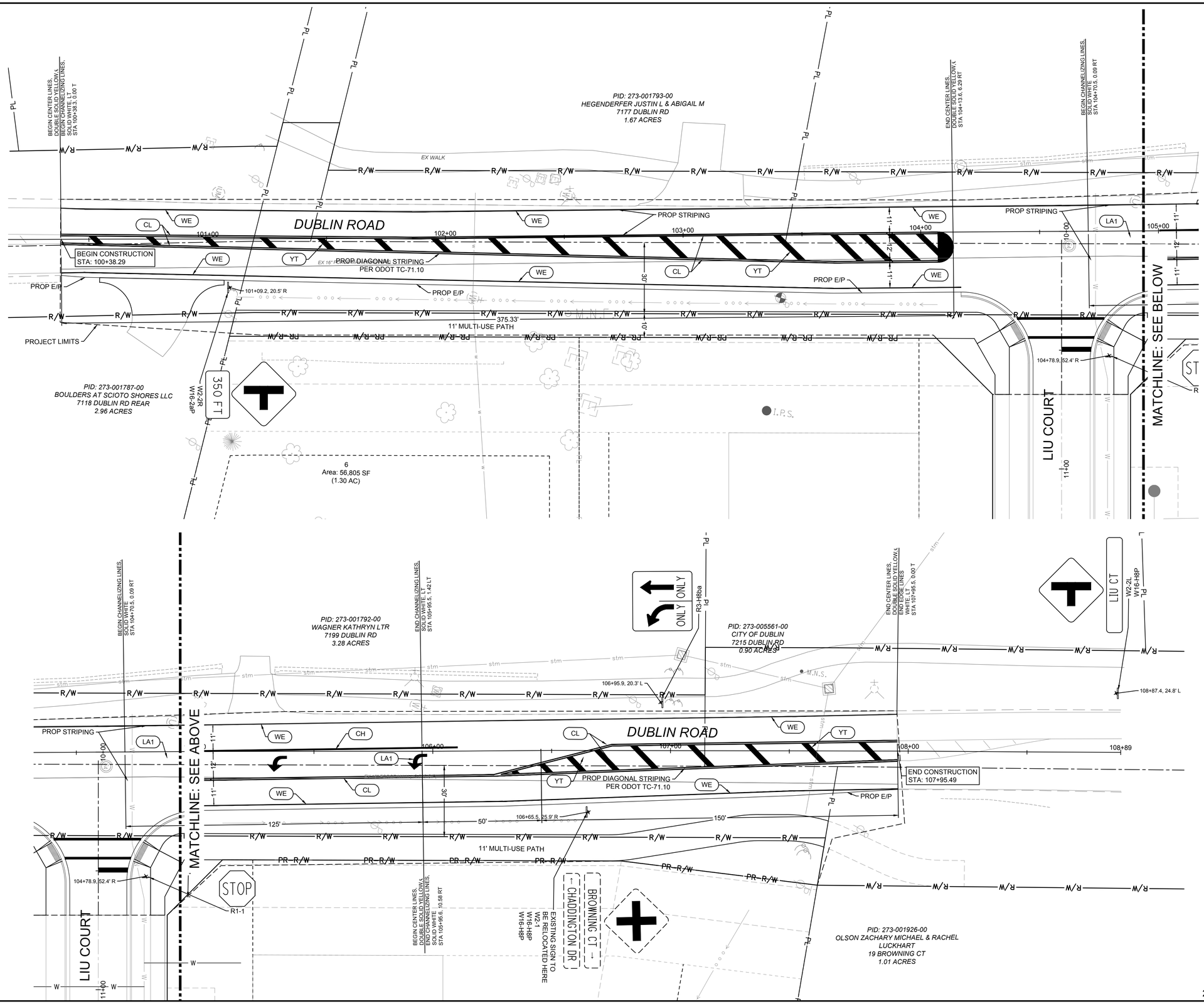
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EXISTING LEGEND

- PL — PROPERTY LINE
- R/W — RIGHT-OF-WAY
- PAVEMENT/ SIDEWALK
- PAVEMENT STRIPING
- CURB
- ROAD CENTERLINE
- TREE DRIP LINE
- FENCE
- STREAM
- stm — STORM SEWER
- san — SANITARY SEWER
- w — WATER LINE
- g — GAS LINE
- fo — FIBER OPTIC LINE
- e — ELECTRIC
- ohe — OVERHEAD ELECTRIC
- t — TELECOMMUNICATION
- ctv — CABLE TELEVISION

SITE LEGEND

- PL — PROPERTY LINE
- R/W — RIGHT-OF-WAY
- STRAIGHT CURB
- CURB AND GUTTER
- SIGN
- CONCRETE BOLLARD
- HEAVY DUTY ASPHALT PAVEMENT
- STANDARD DUTY ASPHALT PAVEMENT
- HEAVY DUTY CONCRETE
- CONCRETE WALK
- GRAVEL PATH
- PAVEMENT MARKINGS

STRIPING LEGEND

CL	ITEM 644 CENTER LINE, DOUBLE YELLOW 4"
YT	ITEM 644 TRANSVERSE/ DIAGONAL LINE, YELLOW 24"
CH	ITEM 644 CHANNELIZING LINE, WHITE 8"
WE	ITEM 644 EDGE LINE, WHITE 4"
LA1	ITEM 644 LANE ARROW, 72"

HORZ 1"=20' 0 20 40

24-005-RES

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PUBLIC ROADWAY WIDENING PLANS FOR
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SIGNAGE AND STRIPING PLAN

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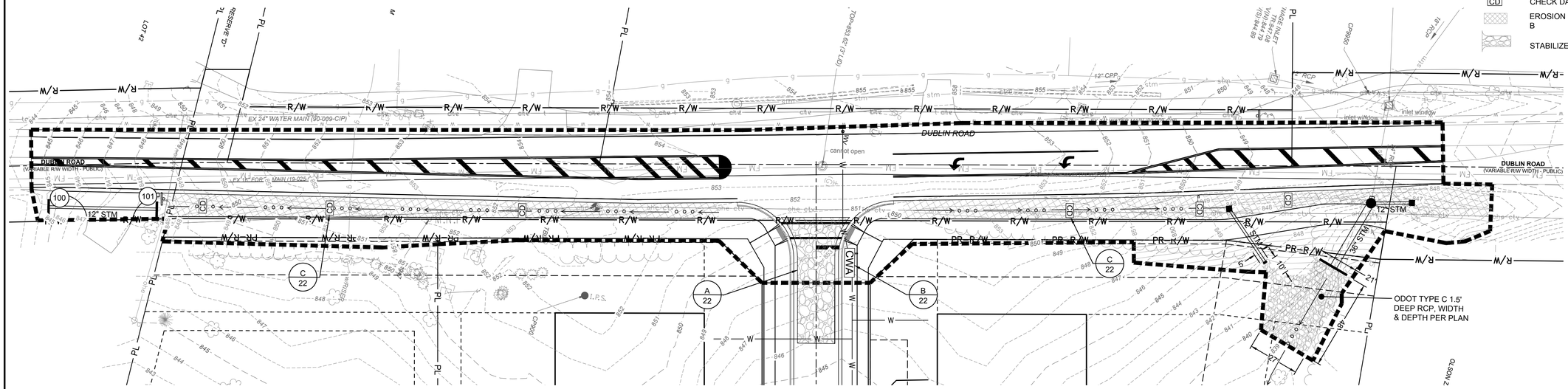
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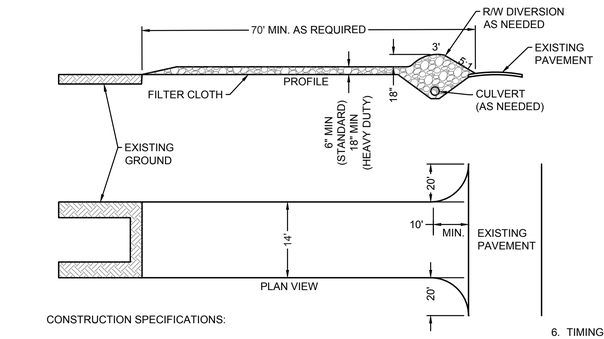
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EROSION CONTROL LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- LIMITS OF DISTURBANCE
- SF — SILT FENCE
- SWALE
- CWA — CONCRETE WASHOUT AREA
- CD — CHECK DAM
- EROSION CONTROL MATTING ODOT TYPE B
- STABILIZED CONSTRUCTION ENTRANCE





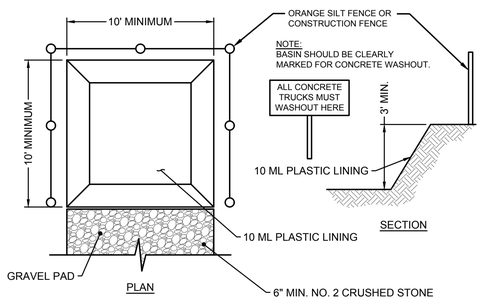
CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE—ODOT # 2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH—THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
3. THICKNESS -THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. WIDTH -THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS
5. GEOTEXTILE -A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 lbs
MINIMUM PUNCTURE STRENGTH	80 psi
MINIMUM TEAR STRENGTH	50 lbs
MINIMUM BURST STRENGTH	320 psi
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS<0.6 mm
PERMITIVITY	$1x10^{-3}$ cm/sec

6. TIMING—THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
7. CULVERT -A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
8. WATER BAR -A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
9. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR PREVENT FLOWING SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
10. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
11. REMOVAL—THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

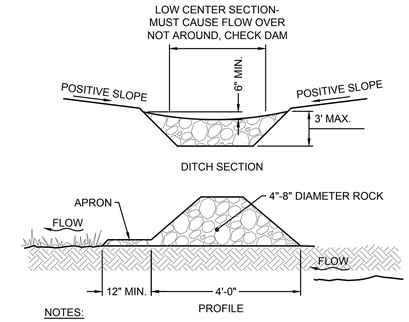
A CONSTRUCTION ENTRANCE
NOT TO SCALE



NOTE:

1. CONCRETE WASHOUT AREA SHALL BE LOCATED A MINIMUM OF 100' FROM STORM SEWER INLETS, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS.
2. IF CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO A CONSTRUCTION ENTRANCE.
3. CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. LARGE SITES MAY REQUIRE MULTIPLE CONCRETE WASHOUT AREAS.
4. PLASTIC LINING SHALL BE DOUBLE-LINED, CONTINUOUS 10-ML POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER DEFECTS INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF LARGE ROCKS AND DEBRIS.
5. CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA.
6. CONCRETE WASHOUT AREA SHALL BE COVERED DURING INCLEMENT WEATHER TO PREVENT OVERFLOW.
7. PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE.
8. CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR PLASTIC LINING SHALL BE REPAIRED IMMEDIATELY. REPLACE THE ENTIRE CONCRETE WASHOUT AREA WHEN IT IS 75% FULL.

B CONCRETE WASHOUT AREA
NOT TO SCALE



NOTES:

1. CONSTRUCT CHECK DAM SUCH THAT THE CENTER IS 6" LOWER THAN THE OUTER EDGES.
2. SPACE CHECK DAMS SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
3. SIDE SLOPES SHALL BE A MINIMUM OF 2:1

C ROCK CHECK DAM
NOT TO SCALE

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PUBLIC ROADWAY WIDENING PLANS
FOR
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CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

EROSION CONTROL PLAN

REVISIONS	DATE	SHEET NO.	DESCRIPTION

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22/24

24-005-RES

HORZ 1"=30' 0 30 60

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 3:00 PM EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024.00690 ECP.DWG

SITE NARRATIVE

PLAN DESIGNER	OWNER	SITE CONTACT
AMERICAN STRUCTUREPOINT, INC.	MR. JASON LIU	NAME
2550 CORPORATE EXCHANGE DR., STE 300	10279 WELLINGTON BLVD.	TITLE
COLUMBUS, OHIO 43231	POWELL, OHIO 43065	PHONE: (XXX) XXX-XXXX
CONTACT: BENJAMIN SCHILLING	CONTACT: JASON LIU	EMAIL: EMAIL ADDRESS
PHONE: (614) 901-2235	PHONE: (614) 313-1268	
EMAIL: bschilling@structurepoint.com	EMAIL: JASONLIU1218@YAHOO.COM	

EXISTING SITE CONDITIONS: PUBLIC ROAD, 2 DRIVE ENTRANCES; GRASS.

PROJECT DESCRIPTION: ACTIVITIES INCLUDE THE WIDENING OF DUBLIN ROAD, ADDING A TURN LANE, AND INTERSECTION TO THE PROPOSED CUL-DE-SAC, CONSTRUCTION OF A SINGLE FAMILY REDEVELOPMENT (7 DWELLING UNITS, 6 NEW HOMES, ASSOCIATED UTILITIES, DRIVES, SIDEWALK AND PAVEMENT IMPROVEMENTS, AND AN UNDERGROUND DETENTION SYSTEM. APPROXIMATELY 1.12 ACRES OF THE SITE WILL BE DISTURBED.

RECEIVING STREAM: SCIOTO RIVER.

DISTURBED AREA: 1.12 ACRES

SITE BMPS: FINAL LOCATIONS OF ALL SITE BMPS, INCLUDING DUMPSTERS, VEHICLE FUELING AREAS, CONCRETE TRUCK WASH, MATERIAL STORAGE, AND TOPSOIL STOCKPILES SHALL BE DETERMINED BY CONTRACTOR. IF FINAL LOCATION OF BMPS DIFFER FROM THE LOCATIONS SHOWN, CONTRACTOR SHALL MODIFY SWPPP AND INFORM OHIO EPA OF NEW LOCATIONS OF BMPS.

ADJACENT AREAS:
EAST: SCIOTO RIVER
NORTH: RESIDENTIAL HOMES
WEST: RESIDENTIAL HOMES
SOUTH: RESIDENTIAL HOMES

GRADING REQUIREMENTS: DISTURBED AREAS WILL BE PROTECTED BY SILT FENCE, AND ROCK CHECK DAMS. AREAS WILL BE STABILIZED WHEN GRADED TO PREVENT EROSION ON THE SITE.

EROSION & SEDIMENT CONTROL MEASURES: A COMBINATION OF MEASURES WILL BE USED TO PROVIDE EROSION & SEDIMENT CONTROL, INCLUDING SILT FENCE AND SEEDING.

PROVIDE INLET PROTECTION AT ALL NEW AND EXISTING DRAINAGE STRUCTURES.

ANY OFF SITE BORROW OR SPOIL AREAS SHALL BE SUBJECT TO THE REQUIREMENTS SET FORTH BY THE OHIO EPA. ALL EROSION AND SEDIMENT CONTROL MEASURES FOR OFF-SITE AREAS NOT COVERED BY A SEPARATE NOI OR SWPPP SHALL BE COORDINATED WITH THE OHIO EPA.

ALL TRENCH OR EXCAVATION GROUNDWATER CONTAINING SEDIMENT MUST BE EFFECTIVELY TREATED PRIOR TO DISCHARGE INTO THE STORM SEWER SYSTEM.

USE ALL MEANS NECESSARY TO CONTROL DUST ON THE SITE AND PREVENT TRACKING SOIL OFF SITE.

PERMANENT STABILIZATION: THE SITE WILL BE STABILIZED BY THE USE OF SEEDING OR SODDING IN LAWN AREAS.

MAINTENANCE: ALL EROSION CONTROL DEVICES ARE TO BE INSPECTED BY THE CONSTRUCTION SUPERINTENDENT WEEKLY AND AFTER SIGNIFICANT RAINFALLS. ANY DAMAGED FACILITIES ARE TO BE REPLACED OR REPAIRED IMMEDIATELY AS MAY BE NECESSARY.

GENERAL CONSTRUCTION SEQUENCE: (UNLESS NOTED OTHERWISE, ALL EROSION AND SEDIMENT CONTROL MEASURES FROM THE BEGINNING OF EARTH DISTURBING ACTIVITIES TO FINAL COMPLETION OF THE PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR)

1. ESTABLISH CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT CONSTRUCTION AREA.
2. CONSTRUCT TEMPORARY SEDIMENT CONTROLS AND PERIMETER EROSION CONTROL MEASURES, INCLUDING SEDIMENT BASINS, TEMPORARY OUTLET STRUCTURE, CONSTRUCTION ENTRANCE, AND SILT FENCE. MEASURES SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS OF FIRST GRUBBING.
3. CLEAR AND GRUB
4. STRIP AND STOCKPILE TOPSOIL. SEED STOCKPILES. PROVIDE PERIMETER SILT FENCE AT TOE OF STOCKPILE SLOPE.
5. PERFORM ROUGH GRADING AND EXCAVATION. STABILIZE AREAS AS INDICATED HEREIN.
6. INSTALL STORM SEWERS, OUTLET STRUCTURE, AND INLET FILTERS.
7. COMPLETE ALL PAVEMENT ACTIVITIES.
8. COMPLETE FINE GRADING OF SEEDED AREAS AND STABILIZE DISTURBED AREAS.
9. ONCE FINAL SEED HAS BEEN ESTABLISHED, CONTRACTOR TO REMOVE TEMPORARY EROSION CONTROL MEASURES AND CLEAN ALL SEDIMENT FROM STRUCTURES AND PAVEMENT. SEDIMENT/WATER QUALITY BASIN SHALL BE CLEANED OF ALL ACCUMULATED SEDIMENT AND RESTORED TO THE ORIGINAL DESIGN CONTOURS SHOWN ON THESE PLANS.
10. PRIOR TO FINISHING WORK, ALL AREAS OF THE SITE DISTURBED BY CONSTRUCTION ACTIVITY (INCLUDING, BUT NOT LIMITED TO MATERIAL STORAGE AREAS, TRAILER AREAS, FUELING AREAS, TRUCK WASH AREAS, EQUIPMENT PATHS, HAUL ROADS, ETC.) SHALL BE RESTORED TO THEIR ORIGINAL CONDITIONS, OR IF IN AREAS OF PROPOSED IMPROVEMENTS, TO THEIR PROPOSED CONDITIONS. ALL STONE, TRASH, AND DEBRIS SHALL BE REMOVED FROM THE SOIL. THE UPPER 12" OF SOIL SHALL BE SCARIFIED, AND AREA SHALL BE GRADED TO SUBGRADE WITH SUITABLE MATERIALS. FURNISH 6" MINIMUM OF TOPSOIL AND SEED ALL AREAS.

SCHEDULE: THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE PLACED IN ACCORDANCE WITH THIS SCHEDULE.

JURISDICTION: ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF THE CITY OF DUBLIN AND/OR THE OHIO EPA.

OEPA NOI: SUBMITTED, PENDING APPROVAL

RUNOFF COEFFICIENTS:
PRE-DEVELOPED: C = 0.43
POST-DEVELOPED: C = 0.56
PRE-DEVELOPED IMPERVIOUS AREA: 0.07 ACRES
POST-DEVELOPED IMPERVIOUS AREA: 0.32 ACRES

EROSION CONTROL NOTES:

1. ALL EROSION CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO ANY SITE GRADING OPERATIONS. ALL APPLICABLE GOVERNING AGENCIES MUST BE NOTIFIED UPON COMPLETION OF THE INSTALLATION OF THE REQUIRED EROSION FACILITIES AND PRIOR TO ANY GRADING OPERATION BEING COMMENCED. IF DAMAGED OR REMOVED DURING CONSTRUCTION, ALL EROSION CONTROL FACILITIES SHALL BE RESTORED AND IN PLACE AT THE END OF EACH WORK DAY.
2. ANY EROSION CONTROL FACILITIES DEEMED NECESSARY BY THE GOVERNING AGENCIES; BEFORE, DURING OR AFTER THE GRADING ACTIVITIES, SHALL BE INSTALLED AT THEIR REQUEST.
3. FLOWS FROM DIVERSION CHANNELS OR PIPES (TEMPORARY OR PERMANENT) SHALL BE ROUTED TO SEDIMENTATION BASINS OR APPROPRIATE ENERGY DISSIPATERS TO PREVENT TRANSPORT OF SEDIMENT TO OUTFLOW TO LATERAL CONVEYORS AND TO PREVENT EROSION AND SEDIMENTATION WHEN RUNOFF FLOWS INTO THESE CONVEYORS.
4. SITE ACCESS ROADS SHALL BE GRADED OR OTHERWISE PROTECTED WITH SILT FENCES, DIVERSION CHANNELS, OR DIKES AND PIPES TO PREVENT SEDIMENT FROM EXITING THE SITE VIA THE ACCESS ROADS. SITE-ACCESS ROADS/DRIVEWAYS SHALL BE SURFACED WITH CRUSHED ROCK WHERE THEY ADJOIN EXISTING PAVED ROADWAYS.
5. SOILS TRACKED FROM THE SITE BY MOTOR VEHICLES OR EQUIPMENT SHALL BE CLEANED DAILY FROM PAVED ROADWAY SURFACES, OR MORE FREQUENTLY IF REQUESTED BY GOVERNING AGENCIES, THROUGHOUT THE DURATION OF CONSTRUCTION.
6. DUST CONTROL MEASURES SHALL BE PERFORMED PERIODICALLY WHEN CONDITIONS REQUIRE AND/OR AS DIRECTED BY THE GOVERNING AGENCIES.
7. ALL EROSION CONTROL MEASURES SHALL BE USED AND MAINTAINED FOR THE DURATION OF SITE CONSTRUCTION. IF CONSTRUCTION OPERATIONS OR NATURAL EVENTS DAMAGE OR INTERFERE WITH THESE EROSION CONTROL MEASURES, THEY SHALL BE RESTORED TO SERVE THEIR INTENDED FUNCTION AT THE END OF EACH DAY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
8. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED AS SOON AS POSSIBLE. ANY AREAS WHICH HAVE BEEN FINISHED GRADED SHALL BE SODDED. AREAS THAT HAVE BEEN DISTURBED AND FOR WHICH GRADING OR SITE BUILDING CONSTRUCTION OPERATIONS ARE NOT ACTIVELY UNDERWAY SHALL BE TEMPORARILY SEEDED AND MULCHED AS REQUIRED BY GOVERNING AGENCIES.
9. RUNOFF SHALL BE PREVENTED FROM ENTERING ALL STORM SEWER CATCH BASINS PROVIDING THEY ARE NOT NEEDED DURING CONSTRUCTION. WHERE STORM SEWER CATCH BASINS ARE NECESSARY FOR SITE DRAINAGE DURING CONSTRUCTION, A SILT FENCE OR SEDIMENT PROTECTION DEVICES SHALL BE INSTALLED AND MAINTAINED AROUND ALL CATCH BASINS UNTIL THE TRIBUTARY AREA TO THE CATCH BASIN IS RESTORED.
10. EROSION CONTROL FACILITIES SHALL BE INSTALLED AND MAINTAINED AROUND THE PERIMETER OF ALL LAKES, PONDS, AND WETLANDS, IF ANY WITHIN OR ADJACENT TO THE AREA TO BE GRADED UNTIL THE AREA TRIBUTARY TO THE LAKE, POND, OR WETLAND IS RESTORED.
11. TO MINIMIZE EROSION, ALL 3:1 SLOPES OR GREATER SHALL BE COVERED WITH A TEMPORARY EROSION CONTROL BLANKET OR STAKED SOD.
12. ACCUMULATION OF ALL SEDIMENT OCCURRING IN STORM SEWERS, DITCHES, LAKES, PONDS, WETLANDS SHALL BE REMOVED PRIOR TO, DURING AND AFTER COMPLETION OF GRADING ACTIVITIES, AT NO ADDITIONAL COST TO OWNER.
13. EROSION CONTROL ITEMS AND DEVICES SHALL BE REMOVED ONLY AFTER THE AREA HAS RECEIVED FINAL STABILIZATION.
14. THIS PLAN MUST BE POSTED ON SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON SITE AT ALL TIME.

SEDIMENT AND EROSION CONTROL NOTES:

MAINTENANCE & INSPECTION PROCEDURES:
ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS FOLLOWING ANY STORM EVENT OF 0.5INCHES OR GREATER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SEDIMENTATION AND EROSION CONTROL FEATURES ON THIS PROJECT. ANY SEDIMENT OR DEBRIS WHICH REDUCES THE EFFICIENCY OF A CONTROL FEATURE SHALL BE REMOVED IMMEDIATELY. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER AND IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.

TEMPORARY SEEDING AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION, AND A WRITTEN LOG MUST BE KEPT. THIS LOG SHALL INDICATE THE DATE OF THE INSPECTION, NAME OF THE INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, ANY CORRECTIVE ACTIONS TAKEN, AND BE SIGNED IN ACCORDANCE WITH THE CONDITIONS OF THE NPDES PERMIT. ANY CONTROL MEASURE MUST BE REPAIRED/REPLACED WITHIN THREE DAYS OF INSPECTION.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL BE TRAINED IN ALL INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER. A WRITTEN DOCUMENT CONTAINING THE SIGNATURES OF ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE IMPLEMENTATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE MAINTAINED AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE PLAN. THE DOCUMENT SHALL BE CREATED BY THE CONTRACTOR SIGNED PRIOR TO THE START OF CONSTRUCTION.

DISPOSAL OF SOLID/SANITARY/TOXIC WASTE:
SOLID, SANITARY, AND TOXIC WASTE MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS

IT IS PROHIBITED TO BURN, BURY, OR POUR OUT ONTO THE GROUND OR INTO A STORM SEWER WATER CONVEYANCE ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS, AND OTHER SUCH SOLID AND HAZARDOUS WASTES.

ANY RINSE WATERS OF SUCH MATERIAL ARE ALSO PROHIBITED FROM BEING PLACED WHERE THEY MAY ENTER DRAINAGEWAYS.

WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN A DIKED, DESIGNATED AREA, AWAY FROM ANY CONVEYANCE CHANNEL.

COORDINATE WASH OUT AREA WITH CONSTRUCTION MANAGER.

CONTRACTORS RESPONSIBILITIES:
THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.

DETAILS HAVE BEEN PROVIDED ON THE PLANS IN AN EFFORT TO HELP THE CONTRACTOR PROVIDE EROSION AND SEDIMENTATION CONTROL. THE DETAILS SHOWN ON THE PLAN SHALL BE CONSIDERED A MINIMUM. ADDITIONAL OR ALTERNATE DETAILS MAY BE FOUND IN THE ODNR MANUAL "RAINWATER AND LAND DEVELOPMENT". THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION AND SEDIMENT RUNOFF FROM THE SITE ALONG WITH PROPER MAINTENANCE AND INSPECTION IN COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORM DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE OWNER. THE SCHEDULE SHOULD INCLUDE A SEQUENCE OF THE PLACEMENT OF THE SEDIMENTATION AND EROSION CONTROL MEASURES THAT PROVIDES FOR CONTINUAL PROTECTION OF THE SITE THROUGHOUT EARTH MOVING ACTIVITIES.

PRIOR TO CONSTRUCTION OPERATIONS IN A PARTICULAR AREA, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE. FIELD ADJUSTMENTS WITH RESPECT TO LOCATIONS AND DIMENSIONS MAY BE MADE BY THE ENGINEER AND/OR THE OHIO EPA.

THE CONTRACTOR SHALL PLACE INLET PROTECTION FOR THE SEDIMENTATION CONTROL IMMEDIATELY AFTER CONSTRUCTION OF THE CATCH BASINS OR INLETS WHICH ARE NOT TRIBUTARY TO A SEDIMENT BASIN OR DAM.

IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF SEDIMENTATION CONTROLS DURING CONSTRUCTION TO FACILITATE THE GRADING OPERATIONS IN CERTAIN AREAS. HOWEVER, THE CONTROLS SHALL BE REPLACED UPON GRADING OR DURING ANY INCLEMENT WEATHER.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFFSITE TRACKING OF SEDIMENTS BY VEHICLES AND EQUIPMENT IS MINIMIZED. ALL SUCH OFFSITE SEDIMENT SHALL BE CLEANED UP DAILY.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT NO SOLID OR LIQUID WASTE IS DISCHARGED INTO STORM WATER RUNOFF. UNTREATED SEDIMENT-LADEN RUNOFF SHALL NOT FLOW OFFSITE WITHOUT BEING DIRECTED THROUGH A CONTROL PRACTICE.

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE INTO OR ALONG SIDE RIVERS, STREAMS, CREEKS, NATURAL OR MAN-MADE CHANNELS OR SWALES LEADING THERETO. CONCRETE WASH WATER AND SURPLUS CONCRETE SHALL BE CONFINED TO APPROVED AREAS. AFTER SOLIDIFYING THESE WASTED MATERIALS SHALL BE REMOVED FROM THE SITE.

POST FLOOD EVENT SITE MAINTENANCE:

FOLLOWING A FLOOD EVENT, INSPECT ALL MECHANICAL EQUIPMENT THAT ARE LOCATED ON THE SITE FOR ANY DAMAGES. WALLS AND WALL PENETRATIONS SHALL ALSO BE CHECKED FOR CRACKS AND LEAKS AND REPAIRED AS NECESSARY. ALL DEBRIS THAT MAY HAVE ACCUMULATED ALONG THE SITE SHALL BE GATHERED AND DISPOSED OF ACCORDING TO CITY STANDARDS. CHECK AND ENSURE THAT ALL DRAINAGE STRUCTURES ARE IN STANDARD OPERATION AND REPAIR ANY DAMAGES OR CLOGS THAT MAY HAVE OCCURRED DURING FLOODING.

STABILIZATION PROCEDURES

CONTRACTOR SHALL BE RESPONSIBLE TO KEEP A RECORD OF DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN EARTH DISTURBANCE HAS TEMPORARILY OR PERMANENTLY CEASED ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES HAVE BEEN INITIATED. THE LIMITS OF SEEDING AND MULCHING ARE AS SHOWN WITHIN THE PLAN AS INDICATED BY THE LIMITS OF DISTURBANCE. ALL AREAS NOT DESIGNATED TO BE SEEDED SHALL REMAIN UNDER NATURAL GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

TEMPORARY STABILIZATION
TOPSOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY CEASES FOR AT LEAST 14 DAYS WILL BE STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 7 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. DISTURBED AREAS WITHIN 50 FEET OF A STREAM, FIRST ORDER OR LARGER, SHALL BE STABILIZED WITHIN 2 DAYS OF INACTIVITY. TEMPORARY STABILIZATION MUST BE APPLIED TO ANY AREA OF THE SITE WHICH WILL REMAIN IDLE OVER THE WINTER. THE TEMPORARY SEED SHALL BE RYE (GRASS) APPLIED AT A RATE OF 25 LBS PER 1000 SY. PRIOR TO SEEDING, 900 LBS OF GROUND AGRICULTURAL LIMESTONE AND 200 LBS OF 10-20-20 FERTILIZER SHALL BE APPLIED TO EVERY 1000 SY STABILIZED. IMMEDIATELY AFTER ANY GIVEN AREA IS SEEDED, STRAW OR HAY SHALL BE EVENLY PLACED OVER ALL SEEDED AREAS. TWO TONS PER ACRE FOR STRAW, OR 3 TONS PER ACRE FOR HAY SHALL BE PLACED WHEN SEEDING IS PREFORMED BETWEEN THE DATES OF MARCH 15 AND OCTOBER 15. THREE TONS PER ACRE STRAW, OR 4.5 TONS PER ACRE FOR HAY, SHALL BE PLACED WHEN SEEDING IS PREFORMED BETWEEN THE DATES OF OCTOBER 15 AND MARCH 15 OF THE SUCCEEDING YEAR. IF DORMANT SEEDING IS BEING USED FOR STABILIZATION, SEED SHALL BE PLANTED AFTER NOVEMBER 20. AREAS TO BE PAVED SHALL BE TEMPORARILY STABILIZED BY APPLYING STONE BASE UNTIL BITUMINOUS PAVEMENT CAN BE APPLIED.

IN ADDITION TO TEMPORARY SEEDING, THE CONTRACTOR SHALL PLACE A FILTER FABRIC BARRIER AROUND THE BASE OF ALL SOIL STOCKPILES.

PERMANENT STABILIZATION
DISTURBED PORTIONS OF THE SITE WHEN CONSTRUCTION HAS COMPLETED, OR PORTIONS THAT WILL REMAIN DORMANT FOR LONGER THAN ONE YEAR, SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 7 DAYS AFTER FINAL GRADE HAS BEEN ESTABLISHED. THE PERMANENT SEED MIX SHALL CONSIST OF 260 LBS/ACRE OF TURF TYPE TALL FESCUE. PRIOR TO SEEDING, APPLY COMMERCIAL FERTILIZER AT THE RATE OF 1 LB ACTUAL NITROGEN PER 1000 SF. FERTILIZER TO HAVE 20-22-14 ANALYSIS. AFTER SEEDING, EACH AREA SHALL BE MULCHED USING TURFIBER (OR EQUIVALENT) AT A RATE OF 2000 LBS PER ACRE WITH 50 LBS OF TURFIBER ADDED PER 100 GALLONS OF MACHINE CAPACITY. KEEP HYDROMULCH FROM NON-TARGET AREAS INCLUDING PAVEMENT, PLANT MATERIALS, CURBING, AND STRUCTURES. IF THESE SURFACES ARE HIT DURING HYDROMULCHING OPERATIONS, WASH THE SURFACE IMMEDIATELY.

IF SEASONAL CONDITIONS PROHIBIT THE ESTABLISHMENT OF VEGETATIVE COVER, OTHER METHODS OF STABILIZATION, SUCH AS MULCHING WITH A TACKIFIER OR MATTING, MUST BE EMPLOYED AND MAINTAINED UNTIL A MORE PERMANENT METHOD CAN BE IMPLEMENTED.

TEMPORARY STABILIZATION	
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREA WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA. FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

PERMANENT STABILIZATION	
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
AN AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE IN THAT AREA

TEMPORARY SEEDING			
SEEDING DATES	SPECIES	LB/1,000 SF	PER ACRE
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	PERENNIAL RYEGRASS	1	40 LB
	TALL FESCUE	1	40 LB
	ANNUAL RYGRASS	1	40 LB
AUGUST 16 TO NOVEMBER 1	RY	3	2 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	WHEAT	3	2 BUSHEL
	TALL FESCUE	1	40 LB
	ANNUAL RYGRASS	1	40 LB
	PERENNIAL RYEGRASS	1	40 LB
	TALL FESCUE	1	40 LB
	ANNUAL RYGRASS	1	40 LB
NOVEMBER 1 TO SPRING SEEDING	USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING.		
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED			

24-005-RES

AMERICAN STRUCTUREPOINT INC.
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PUBLIC ROADWAY WIDENING PLANS FOR
DUBLIN ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO
EROSION CONTROL NOTES

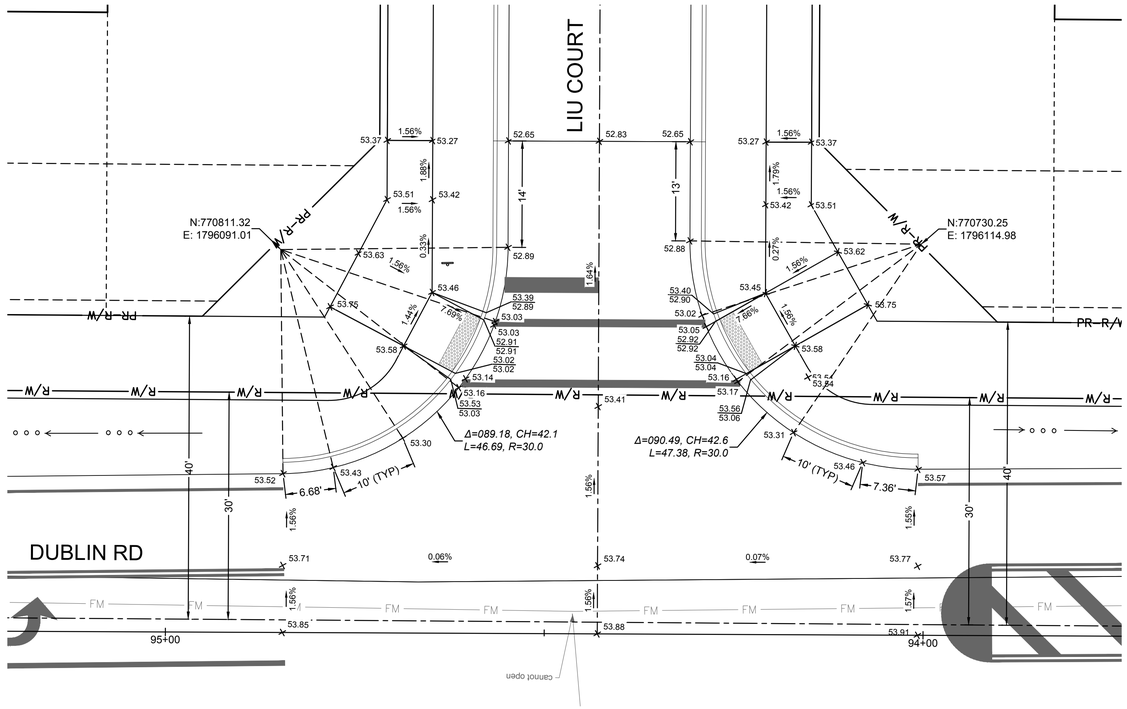
REVISIONS	DATE	SHEET NO.	DESCRIPTION

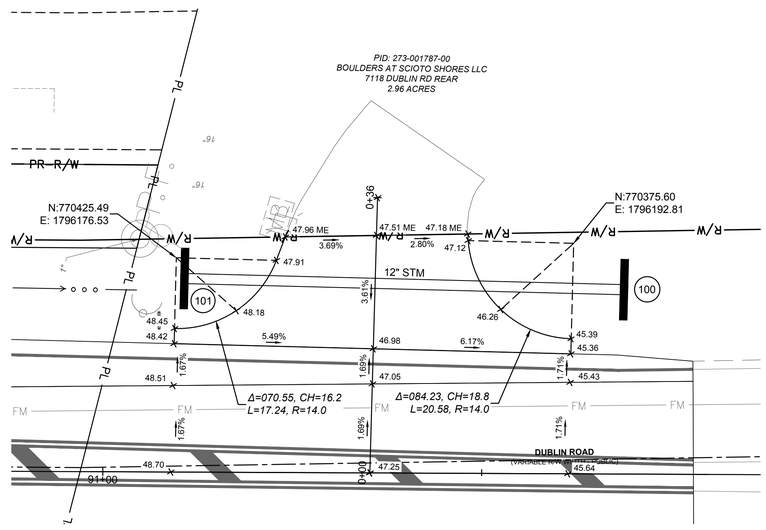
APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	04/02/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

23/24

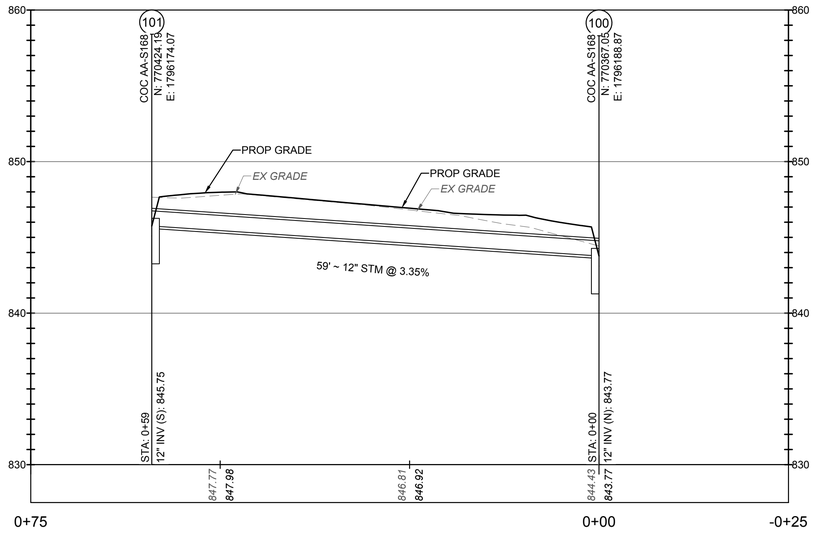
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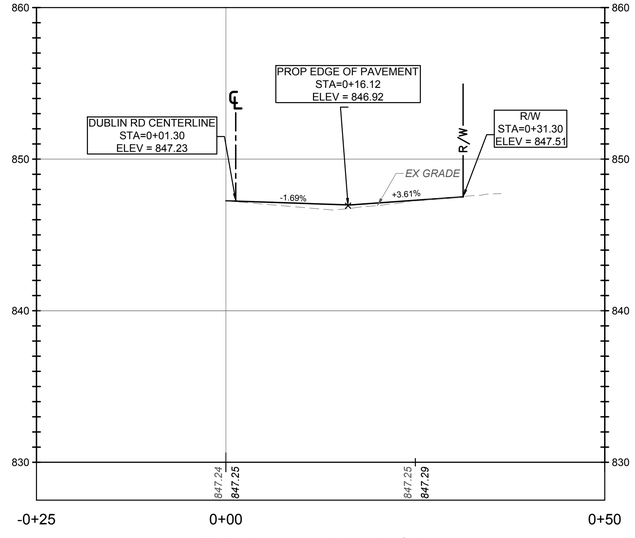


GRADING LEGEND

FFE=110.00	FINISHED FLOOR ELEVATION
×10.00	SPOT ELEVATION
×100.00 TC	TOP OF CASTING ELEVATION
×10.00 HP	HIGH POINT ELEVATION
×10.00 ME	MATCH EXISTING ELEVATION
10.50 / 10.00	TOP OF CURB ELEVATION / BOTTOM OF CURB ELEVATION
X.XX%	SLOPE ARROW



STORM SEWER PROFILE 100-101
SCALE: H:1"=10', V:1"=5'



7118 DUBLIN RD DRIVEWAY PROFILE
SCALE: H:1"=10', V:1"=5'

HORZ 1"=10' 0 10 20

24-005-RES

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PUBLIC ROADWAY WIDENING PLANS
FOR
DUBLIN ROAD
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

INTERSECTION & DRIVEWAY DETAILS

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	04/02/2025
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24/24

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 4:02 PM EDITED BY: DANUGERAH DRAWING FILE: O:\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\DUBLIN ROAD WIDENING CDS\2024.00690 INT DWG

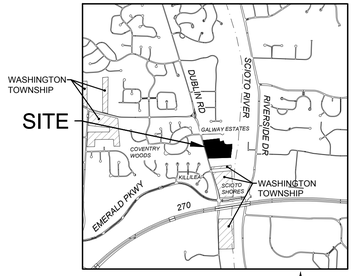
SHEET INDEX

1 - TITLE SHEET
2 - GENERAL NOTES
3 - PLAN & PROFILE
4 - SANITARY DETAILS

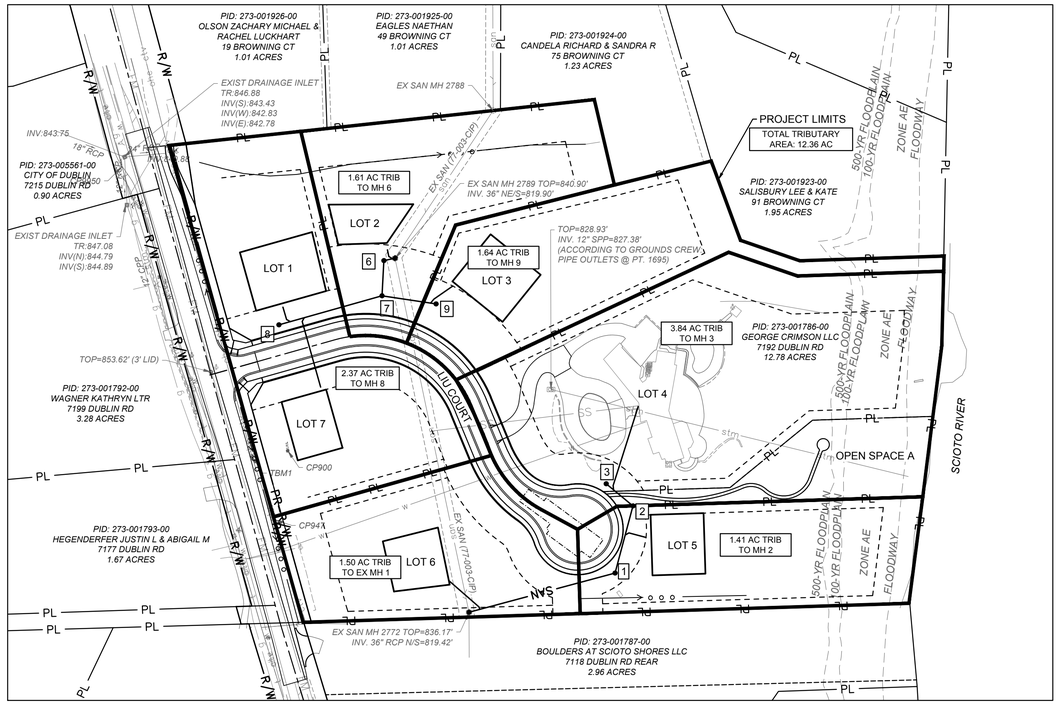
SANITARY SEWER PLANS
FOR

LIU COURT

CITY OF DUBLIN, FRANKLIN COUNTY, OHIO



VICINITY MAP
NTS



INDEX AND TRIBUTARY AREA MAP

HORZ 1"=100' 0 100 200

BASIS OF BEARINGS
BEARINGS SHOWN HEREON ARE BASED ON GRID NORTH, REFERENCED TO THE OHIO STATE PLANE COORDINATE SYSTEM (SOUTH ZONE) AND THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION

HORIZONTAL CONTROL

COORDINATES ARE BASED ON OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), AS ESTABLISHED UTILIZING A GPS SURVEY AND AN NGS OPUS SOLUTION. A PROJECT ADJUSTMENT FACTOR OF 1.0000184927 WAS APPLIED ABOUT C.P. 900 TO OBTAIN GROUND COORDINATES.

C.P.	DESCRIPTION	NORTHING (GROUND)	EASTING (GROUND)	ELEVATION
CP 900	5/8" IRON PIN SET W/ "ASI CONTROL POINT" CAP	770657.227	1796156.545	852.24
CP 947	MAG NAIL FOUND	770565.830	1796139.799	851.58
CP 949	MAG NAIL SET	770019.566	1796217.909	842.37
CP 9950	MAG NAIL SET	771031.845	1795937.341	848.03

VERTICAL CONTROL

ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS DERIVED FROM GNSS OBSERVATIONS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) AND GEOID 18, AND AN NGS OPUS SOLUTION FOR CONTROL POINT 900. THE ELEVATIONS FOR ALL OTHER CONTROL POINTS AND BENCHMARKS LISTED HEREON WERE ESTABLISHED UTILIZING A DIFFERENTIAL LEVEL CIRCUIT ORIGINATING FROM CONTROL POINT 900.

B.M.	DESCRIPTION	NORTHING (GROUND)	EASTING (GROUND)	ELEVATION
CP 900	5/8" IRON PIN SET W/ "ASI CONTROL POINT" CAP	770657.227	1796156.545	852.24
TBM 1	MAG NAIL FOUND IN POWER POLE +/- 72' NORTH OF THE DRIVE FOR 7192 DUBLIN ROAD, +/- 48' WEST OF CP 900, +/- 27' EAST OF THE CENTER LINE OF DUBLIN ROAD	N/A	N/A	853.64

STANDARD CONSTRUCTION DRAWINGS

THE STANDARD CONSTRUCTION DRAWINGS LISTED ON THESE PLANS SHALL BE CONSIDERED A PART THEREOF.

CITY OF DUBLIN (2020 EDITION)
SA-01
SA-02
SA-03
SA-04

CITY OF COLUMBUS
AA-S102
AA-S106
AA-S107
AA-S110
AA-S117
AA-S119
AA-S149
AA-S150
AA-S161
AA-S162

UTILITY CONTACTS

AMERITECH
408 CRITES ROAD
CIRCLEVILLE, OH 43113
PHONE: (740) 477-3658

AMERICAN ELECTRIC POWER
850 TECH CENTER DRIVE
GAHANA, OH 43230
PHONE: (614) 883-6831

CITY OF DUBLIN
DIVISION OF ENGINEERING
5800 SHIER-RINGS ROAD
DUBLIN, OH 43016
PHONE: (614) 410-4600

CITY OF COLUMBUS
DIVISION OF WATER
910 DUBLIN ROAD
COLUMBUS, OH 43215
PHONE: (614) 645-7788

COLUMBIA GAS OF OHIO
200 S CIVIC CENTER DR
COLUMBUS, OH 43215
PHONE: (614) 460-6000

TIME WARNER CABLE
1980 ALUM CREEK DR
COLUMBUS, OH 43207
PHONE: (614) 918-8439

OWNER/ DEVELOPER

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STATE OF OHIO
MATTHEW J. LILIE
E-86125
REGISTERED
PROFESSIONAL ENGINEER

07/17/2025
REGISTERED ENGINEER E-86125 DATE

APPROVED:

CITY OF DUBLIN:
SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

DIRECTOR OF ENGINEERING/CITY ENGINEER DATE
CITY OF DUBLIN, OHIO
PAUL A. HAMMERSMITH, P.E.

CITY OF COLUMBUS:

APPROVAL ON THE PART OF THE CITY OF COLUMBUS IS GIVEN PURSUANT TO THE PROVISIONS OF THE SEWER (AND/OR WATER) SERVICE AGREEMENT BETWEEN THE CITY OF DUBLIN, OHIO, DATED APRIL 13, 1993.

ADMINISTRATOR, DIVISION OF SEWERAGE & DRAINAGE DATE
CITY OF COLUMBUS, OHIO

DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES DATE
CITY OF COLUMBUS, OHIO

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AMERICAN STRUCTUREPOINT INC.
2550 Corporate Exchange Dr. Ste 300 | Columbus, Ohio 43231
TEL 614.901.2235 | FAX 614.901.2236
www.structurepoint.com

SANITARY SEWER PLANS
FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

TITLE SHEET

REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	04/02/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 1:43 PM EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\SANITARY PLAN\2024.00690_TS.DWG

GENERAL NOTES

1. CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.

2. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.

3. THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.

4. THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.

6. FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS_BUILT" ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE CONSTRUCTIONS DRAWINGS.

7. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT_OF_WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.

8. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.

9. NON_RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.

10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS_SECTIONS THAT EXISTED BEFORE CONSTRUCTION.

11. TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

12. DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.

13. ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

14. ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

15. ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.

16. BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE II ACCORDING TO ITEM 613. ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.

17. THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.

    SEND THE INFORMATION TO THE FOLLOWING ADDRESS:

    CONSTRUCTION INSPECTION DIVISION
    CITY OF COLUMBUS
    1800 EAST 17TH AVENUE
    COLUMBUS, OHIO 43219

    SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:

    DIVISION OF ENGINEERING
    CITY OF DUBLIN
    6555 SHIER RINGS ROAD
    DUBLIN, OHIO 43016

18. ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.

19. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6 - INCHES OR GREATER AT DBH (DIAMETER BREAST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.

20. CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PNEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED, CONTROLLED DENSITY BACKFILL (TYPE II) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 613 OF THE STANDARD SPECIFICATIONS.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.

22. PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 1441 DR A AND APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS. THE REPLACEMENT OF DRIVEWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAVEMENT, ETC. SHALL BE PROVIDED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.

23. TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.

24. ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.

25. ALL INLETS SHALL BE CHANNELIZED.

26. PARK AREAS SHALL BE FINE_GRADED AND SEEDED WITH THE FOLLOWING MIXTURE:

    IMPROVED KENTUCKY BLUEGRASS: 40% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)
    IMPROVED PERENNIAL RYE: 60% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)
    GERMINATION RATE: 85%
    APPLICATION RATE: 7 LBS PER 1000 SQ FT OR AS DIRECTED BY THE DIVISION OF PARKS AND RECREATION, CITY OF DUBLIN, OHIO.

27. TRAFFIC CONTROL AND OTHER REGULATORY SIGNS SHALL BE TYPE S WITH A SQUARE POST ANCHOR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT TC-41.20 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS.

28. STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN IN COLOR AND CONFORM WITH THE TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-41.20.

UTILITIES

1. THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:

    AEP OHIO - ELECTRIC
    BREEZELINE - TELECOM
    COLUMBIA GAS OF OH-COLUMBUS - GAS
    DUBLIN SEWER - SANITARY SEWER
    DUBLIN WATER - WATER MAIN
    DUBLIN DIVISION OF ENGINEERING - STORMWATER
    AT&T - TELECOM
    CHARTER COMM - TELECOM

2. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800_362_2764), PRODUCER'S UNDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614_587_0486), AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.

3. THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.

4. LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

5. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.

6. PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS PRIOR TO BEGINNING WORK.

TRAFFIC CONTROL

1. TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION.

2. ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM UNLESS AUTHORIZED DIFFERENTLY BY THE CITY ENGINEER. AT ALL OTHER HOURS THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE_LANE TWO_WAY TRAFFIC. UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE OMUTCD, AND SHALL BE PRESENT WHENEVER ONE_LANE, TWO_WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.

3. IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER SHALL ASSIGN UNIFORMED, OFF_DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.

4. STEADY_BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.

5. ACCESS FROM PUBLIC ROADWAYS TO ALL ADJOINING PROPERTIES FOR EXISTING RESIDENTS OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES. THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA. THE NOI MUST BE SUBMITTED TO OEPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITLE COVERAGE UNDER THE OHIO EPA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT LOCATION MAP MUST BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS. THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL NPDES STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE CONSIDERED THE PERMITTEE.
2. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.

3. ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. HAY OR STRAW BALES ARE NOT PERMITTED.

4. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.

5. DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.

BLASTING (*IF PERMITTED*)

1. THE CONTRACTOR MUST OBTAIN A BLASTING PERMIT FROM WASHINGTON TOWNSHIP FIRE DEPARTMENT PRIOR TO BLASTING FOR ROCK EXCAVATION. THE CONTRACTOR SHALL SUBMIT BLASTING REPORTS UPON COMPLETION OF BLASTING TO THE CITY ENGINEER, THE OWNER, AND THE OWNER'S ENGINEER. TOP OF ROCK ELEVATIONS SHALL BE SHOWN ON "AS_BUILT" CONSTRUCTION DRAWINGS.

SANITARY SEWERS

1. CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN OEPA PERMIT TO INSTALL (PTI), AND UPON RECEIVING A SATISFACTORY LETTER FROM THE DESIGN ENGINEER STATING THAT THE PROJECT HAS BEEN CONSTRUCTED AS PER THE PLANS, AND ALL OF THE CONDITIONS OF THE PTI HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED OHIO EPA APPROVALS AND PAYING REVIEW FEES.

2. SANITARY SEWAGE COLLECTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS OF THE CITY OF DUBLIN, OHIO EPA, OHIO DEPARTMENT OF HEALTH AND THE CURRENT EDITION OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD (TEN STATES) - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES.

3. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE WITH DIAMETERS 8 INCHES TO 10 INCHES SHALL BE PVC SEWER PIPE ASTM D3034, SDR 35. PIPE FOR 6 INCH DIAMETER HOUSE SERVICE LINES SHALL BE PVC PIPE ASTM D3034, SDR 35. PVC PIPE SHALL NOT BE USED AT DEPTHS GREATER THAN 28 FEET. PIPE MATERIALS AND RELATED STRUCTURES SHALL BE SHOP TESTED IN ACCORDANCE WITH CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION QUALITY CONTROL REQUIREMENTS.

4. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES WITH DIAMETERS 12 INCHES TO 30 INCHES SHALL BE PVC SEWER PIPE, ASTM D3034, SDR 35 OR SANITITE HP PIPE, ASTM F2736. SANITARY SEWER PIPES WITH DIAMETERS 30 INCHES TO 60 INCHES SHALL BE PVC SEWER PIPE, ASTM D3034, SDR 35 OR SANITITE HP PIPE, ASTM F2764.

5. ALL IN_LINE WYE AND TEE CONNECTIONS IN CONCRETE SEWERS, 18-INCH DIAMETER AND LARGER, SHALL BE EITHER KOR_N_TEE OR KOR_N_SEAL CONNECTIONS CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.

6. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 613, TYPE II OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.

7. ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF_SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOLT_DOWN LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE OR AS APPROVED BY THE CITY ENGINEER AND CONFORM TO THE CITY OF DUBLIN SANITARY MANHOLE STANDARD DRAWING. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO.

8. ALL PVC SEWER PIPES SHALL BE DEFLECTION TESTED NO LESS THAN 60 DAYS AFTER COMPLETION OF BACKFILLING OPERATIONS. ALL OTHER REQUIREMENTS SHALL BE ACCORDING TO ITEM 901.21 OF THE STANDARD SPECIFICATIONS.

9. TEMPORARY BULKHEADS SHALL BE PLACED IN PIPES AT LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AND SHALL REMAIN IN PLACE UNTIL THE PERMIT TO INSTALL (PTI) HAS BEEN ISSUED BY THE OEPA AND THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER. THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING BULKHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.

10. ALL SANITARY SEWERS INCLUDING SANITARY SEWER SERVICE LINES SHALL BE SUBJECTED TO AND PASS INFILTRATION OR EXFILTRATION TESTS ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER BEFORE ANY SERVICE CONNECTIONS ARE TAPPED INTO SEWERS.

11. FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.

12. AT THE DETERMINATION OF THE CITY ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO PERFORM A TV INSPECTION OF THE SANITARY SEWER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE CITY. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.

13. VISIBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.

14. ROOF DRAINS, FOUNDATION DRAINS, FIELD TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED ACCORDING TO SECTION 51.23 OF THE DUBLIN CODE OF ORDINANCES.

15. ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY, FROM SANITARY SEWERS AND STORM SEWERS, TO THE GREATEST EXTENT PRACTICABLE. WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER, THE SANITARY SEWER SHALL BE CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATERIAL.

16. SERVICE RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM WYES TO PROPOSED GROUND ELEVATION EXCEEDS 10 FEET. TOPS OF RISERS SHALL BE NO LESS THAN 9 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT SERVICE IS INTENDED.

17. WHERE SERVICE RISERS ARE NOT INSTALLED, A MINIMUM 5_FOOT LENGTH OF SANITARY SEWER SERVICE PIPE OF THE SAME SIZE AS THE WYE OPENING SHALL BE INSTALLED.

18. THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, APPROVED WYE POLES MADE OF 2 INCHES X 2 INCHES LUMBER AT ALL WYE LOCATIONS, ENDS OF EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED. WYE POLES SHALL BE VISIBLE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE POLES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.

19. EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES. COSTS FOR PUMPING AND BYPASSING SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE BID FOR THE RELATED ITEMS.

20. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO MANHOLE CONNECTIONS FOR ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATERTIGHT. ALL HOLES SHALL BE NEATLY CORED. THE SEWER PIPE BARREL AT THE SPRINGLINE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE FACE OF THE MANHOLE. TO MAINTAIN FLEXIBILITY IN THE CONNECTION, A 1_INCH SPACE SHALL BE LEFT BETWEEN THE END OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL; THIS SPACE SHALL BE FILLED WITH A WATERPROOF FLEXIBLE JOINT FILLER. ANY METAL THAT IS USED SHALL BE TYPE 300 SERIES STAINLESS STEEL. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES:

    A. RUBBER SLEEVE WITH STAINLESS STEEL BANDING.
        1) KOR_N_SEAL AS MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.
        2) LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERPACE CORPORATION.
        3) OR EQUAL AS APPROVED BY THE CITY ENGINEER.

    B. RUBBER GASKET COMPRESSION.
        1) PRESS WEDGE II AS MANUFACTURED BY PRESS_SEAL GASKET CORPORATION.
        2) DURA SEAL III AS MANUFACTURED BY DURA TECH, INC.
        3) LINK_SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION.
        4) OR EQUAL AS APPROVED BY THE CITY ENGINEER.

    THE COST FOR THIS WORK ALONG WITH A NEW CHANNELIZED BASE FOR THE MANHOLE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RELATED ITEMS OF WORK.

WATER LINE 1-17 DELETED

STORM SEWER 1-11 DELETED

MAIL DELIVERY

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT US MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.

2. BEFORE RELOCATING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.

USE OF FIRE HYDRANTS

1. THE CONTRACTOR SHALL MAKE PROPER ARRANGEMENTS WITH THE DUBLIN SERVICE DEPARTMENT AND THE COLUMBUS DIVISION OF WATER FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK PERFORMED UNDER THIS CONTRACT AND PROVIDE THE CITY OF DUBLIN A COPY OF THE HYDRANT USAGE PERMIT OBTAINED FROM THE CITY OF COLUMBUS. THE CONTRACTOR SHALL ALSO SEND A COPIES OF PERMITS OBTAINED FROM DUBLIN AND COLUMBUS TO THE WASHINGTON AND/OR PERRY TOWNSHIP FIRE DEPARTMENT. PERMITS SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.

2. BEFORE THE FINAL ESTIMATE IS PAID, THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE CITY OF COLUMBUS DIVISION OF WATER TO THE CITY ENGINEER STATING THAT THE CONTRACTOR HAS RETURNED THE SIAMESE VALVE TO THE CITY OF COLUMBUS AND HAS PAID ALL COSTS ARISING FROM THE USE OF THE FIRE HYDRANTS.

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SANITARY SEWER PLANS
FOR
LIU COURT
CITY OF DUBLIN, FRANKLIN COUNTY, OHIO

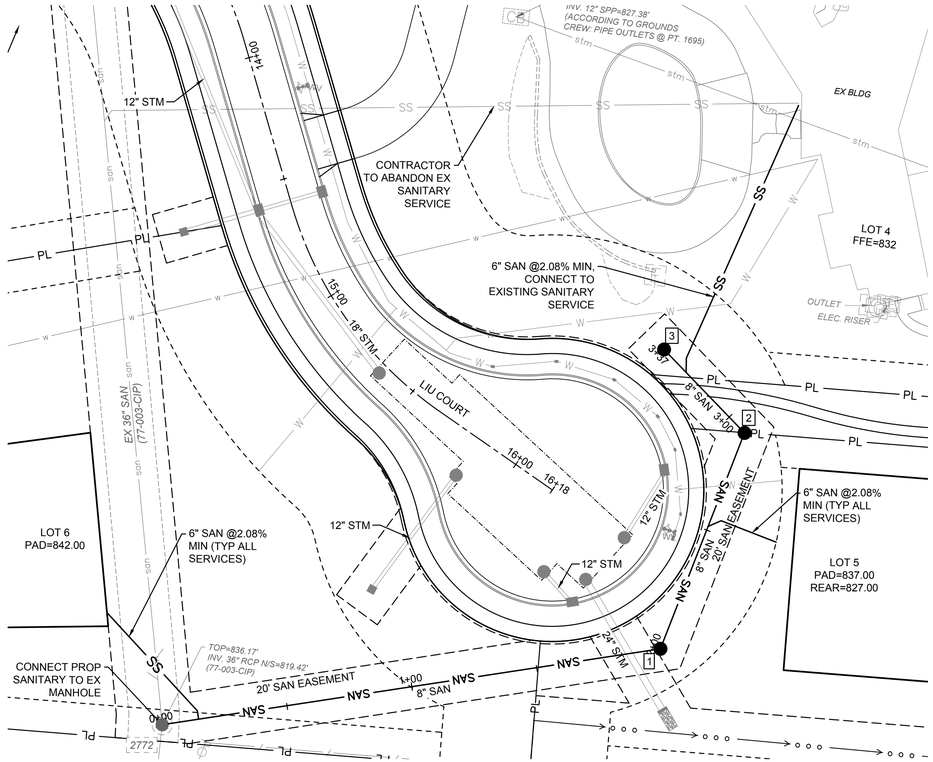
GENERAL NOTES

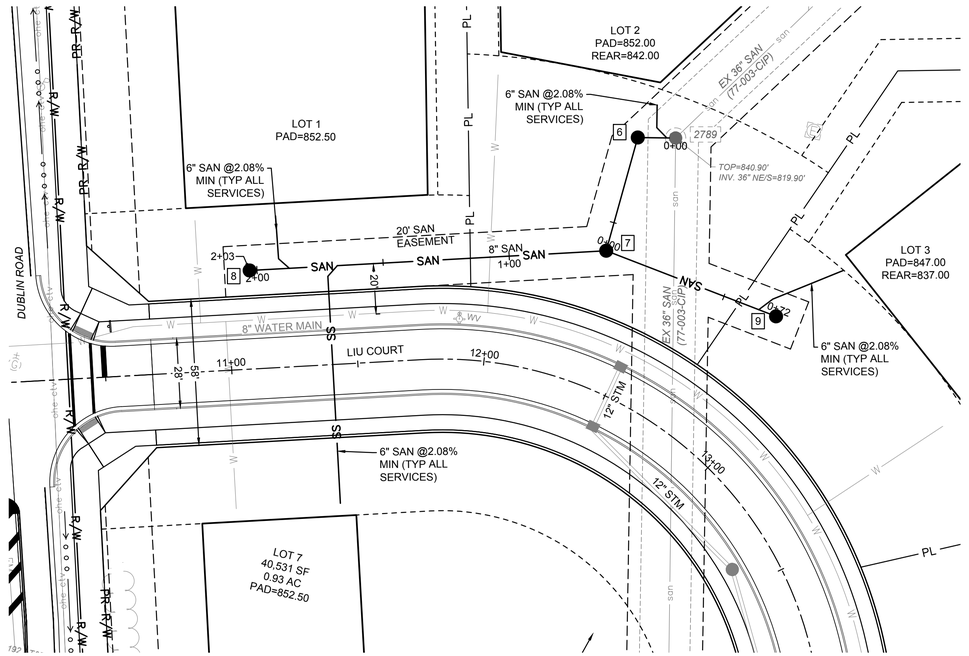
REVISIONS	DATE	SHEET NO.	DESCRIPTION

APPROVAL PENDING NOT FOR CONSTRUCTION
IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

DATE:	04/02/2025
DRAWN BY:	HSR
CHECKED BY:	MJL
JOB NUMBER:	2024.00690

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 1:43 PM EDITED BY: DANUGERAH DRAWING FILE: \\COLUFS2\PROJECTS\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\SANITARY PLAN\2024.00690_TS.DWG





SITE LEGEND

- PL — PROPERTY LINE
- R/W — RIGHT-OF-WAY
- CURB AND GUTTER
- SIGN

UTILITY LEGEND

- SAN — SANITARY GRAVITY
- SS — SANITARY SERVICE
- W — WATER
- STM — STORM SEWER
- CATCH BASIN
- HEADWALL
- SANITARY MANHOLE
- FIRE HYDRANT
- WV — WATER VALVE

NOTE:

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS PRIOR TO START OF CONSTRUCTION.

LONG SERVICES ARE TO HAVE AT LEAST 2' OF RISER ON HOUSE SIDE OF STREET IN ACCORDANCE WITH CITY OF DUBLIN STANDARD CONSTRUCTION DRAWING SA-03. BACKWATER VALVES SHALL BE INSTALLED ON SANITARY SERVICES WITH LESS THAN 2' RISER.

TAPS INTO EXISTING SEWER SYSTEMS ARE TO BE CORE DRILLED AND INSPECTED BY THE CITY OF DUBLIN.

END OF SANITARY STUBS SHALL BE MARKED WITH 4"X4" POST.

(1)

THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A MINIMUM 2.5' CLEARANCE BETWEEN THE 6" SANITARY SEWER SERVICES AND ALL UTILITY CROSSINGS WHILE MAINTAINING A MINIMUM 2.08% GRADE FOR THE SANITARY SERVICES. CONSTRUCT THE TYPICAL ANTI-INFILTRATION & INFLOW BARRIER FOR ALL CROSSINGS OF SANITARY SEWERS AND WATER MAINS AND STORM SEWERS; SEE DETAIL SHOWN ON SHEET 4

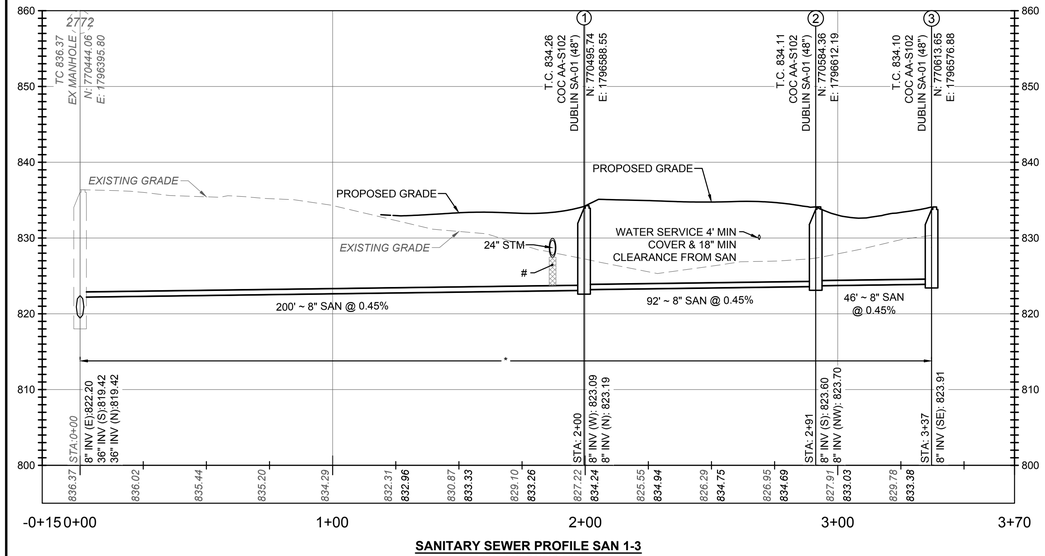
PROPOSED NON-SANITARY SITE IMPROVEMENTS ARE SHOWN FOR REFERENCE ONLY. PLEASE REFER TO THE 7192 DUBLIN RD PRIVATE ON-SITE AND PUBLIC ROAD WIDENING PLANS.

PROFILE NOTES:

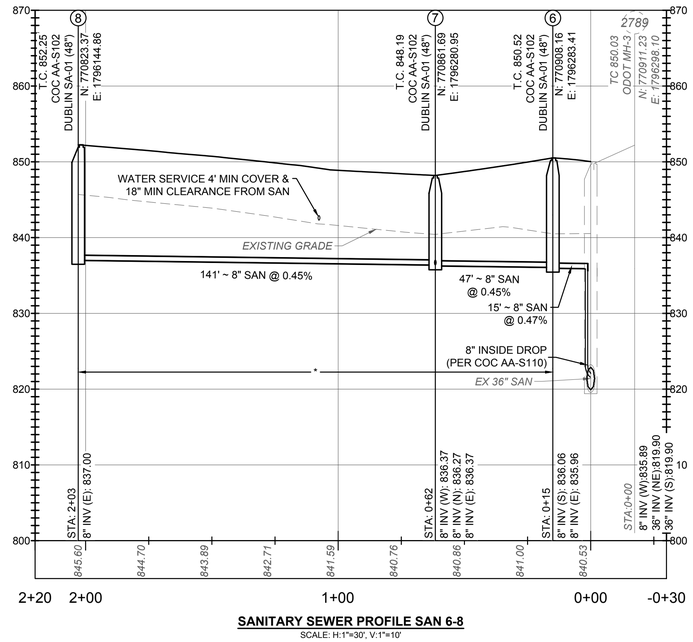
* COMPACTED BACKFILL, ITEM 911

** COMPACTED GRANULAR BACKFILL, ITEM 912

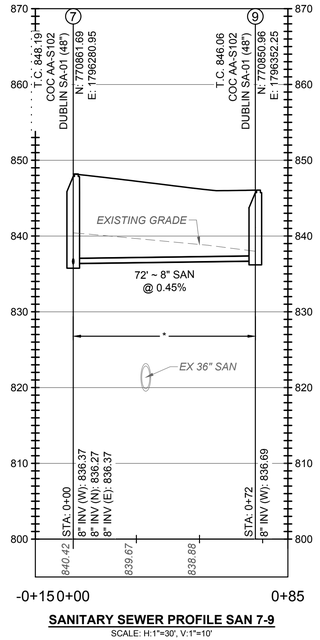
\# SEE ANTI INFILTRATION AND INFLOW BARRIER DETAIL, SHEET 4



SANITARY SEWER PROFILE SAN 1-3
SCALE: H:1"=30', V:1"=10'



SANITARY SEWER PROFILE SAN 6-8
SCALE: H:1"=30', V:1"=10'



SANITARY SEWER PROFILE SAN 7-9
SCALE: H:1"=30', V:1"=10'

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SANITARY SEWER PLANS
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PLAN & PROFILE

REVISIONS	DATE	SHEET NO.	DESCRIPTION

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IN SUBMITTING BIDS IN RELIANCE ON THESE PLANS THE CONTRACTOR ASSUMES ALL RISKS OF ADDITIONAL COSTS OF REVISIONS DUE TO REQUIREMENTS OF THE OWNER OR GOVERNMENTAL AUTHORITIES AND MATERIAL REVISIONS IN THE COURSE OF COMPLETING THE FINAL DESIGN.

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3/4

24-005-RES

VERT 1"=10' 0 10 20
HORZ 1"=30' 0 30 60

PLOT SCALE: 1:1 EDIT DATE: 7/17/25 - 1:56 PM EDITED BY: MJLIUE DRAWING FILE: O:\2024\00690\D. DRAWINGS\CIVIL\CONSTRUCTION DOCUMENTS\SANITARY PLAN\2024.00690 P&P.DWG

FLEXIBLE SEWER PIPE

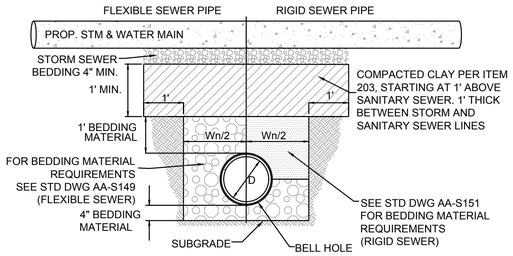
* INCHES

D *	W_n *	D *	W_n *
6	30	24	48
8	30	27	52
10	30	30	56
12	32	36	64
15	36	42	72
18	40	48	80
21	44		

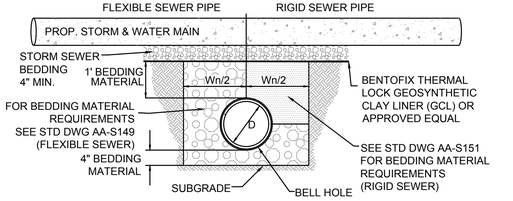
RIGID SEWER PIPE

* INCHES

D *	W_n *	D *	W_n *	D *	W_n *
6	24	27	52	66	105
8	27	30	57	72	116
10	30	33	61	78	123
12	32	36	64	84	130
15	36	42	71	90	136
18	40	48	78	96	143
21	44	54	87	102	151
24	48	60	96	108	160



TYPE "A" - FOR CLEARANCES 28" AND GREATER



TYPE "B" - FOR CLEARANCES LESS THAN 28"

NOTES:

1. THIS DETAIL IS REQUIRED AT ALL SANITARY SEWER AND WATER MAIN CROSSINGS. IF IT IS DISTURBED DURING THE CONSTRUCTION OF THE STORM SEWER OR WATER MAIN IT MUST BE RESTORED TO THE REQUIREMENTS OF THE DETAIL. THIS DETAIL IS NOT BEING USED TO MITIGATE CROSSINGS WHERE THERE IS LESS THAT 18" OF VERTICAL DISTANCE FROM OUTSIDE TO OUTSIDE OF PIPES.

A ANTI-INFILTRATION AND INFLOW BARRIER

NOT TO SCALE

ESTIMATE OF QUANTITIES

THESE QUANTITIES HAVE BEEN PROVIDED ONLY AS AN ESTIMATE TO THE SCOPE OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO EVALUATE THE COMPLETE PROJECT AS DETAILED IN THE NOTES, PLANS, AND SPECIFICATIONS AND PROCEDURES NECESSARY FOR THE COMPLETION OF THE PLAN IMPROVEMENTS AND SUBMIT HIS TOTAL PROJECT COST ACCORDINGLY.

ITEM	QUANTITY	UNIT	DESCRIPTION
			SANITARY
604	7	EACH	PRECAST CONCRETE MANHOLE TYPE "C" (AA-S102) W/ CITY OF DUBLIN LID (ST-02)
901	613	LF	8" PVC SANITARY SEWER PIPE, OR APPROVED EQUAL
914	12	LF	6" PVC DIA. PIPE RISER
915	7	EACH	8" X 6" WYE FITTING
918	289	LF	6" DIAMETER PIPE, SANITARY HOUSE SERVICE CONNECTION

CALCULATED BY: DA DATE: 03/15/2022 CHECKED BY: MJL 07/16/2025

SANITARY PIPE DATA TABLE

START STRUCTURE	END STRUCTURE	LENGTH	BEARING
2789		3	S11° 48' 43.64"E
9	7	72	N81° 26' 27.13"W
8	7	141	N74° 16' 27.44"E
7	6	47	N03° 01' 50.25"E
6	2789	15	N78° 11' 16.36"E
3	2	46	S50° 18' 58.07"E
2	1	92	S14° 56' 00.96"W
1	2772	200	S74° 59' 27.37"W

SANITARY SEWER STRUCTURE TABLE

STR. NO	STRUCTURE TYPE	TOP OF CASTING	NORTHING	EASTING	AS-BUILT NORTHING	AS-BUILT EASTING
1	COC AA-S102 DUBLIN SA-01	834.26	770495.74	1796588.55		
2	COC AA-S102 DUBLIN SA-01	834.11	770584.36	1796612.19		
3	COC AA-S102 DUBLIN SA-01	834.10	770613.65	1796576.88		
6	COC AA-S102 DUBLIN SA-01	850.52	770908.16	1796283.41		
7	COC AA-S102 DUBLIN SA-01	848.19	770861.69	1796280.95		
8	COC AA-S102 DUBLIN SA-01	852.25	770823.37	1796144.86		
9	COC AA-S102 DUBLIN SA-01	846.06	770850.96	1796352.25		
2772	EX MANHOLE	836.37	770444.06	1796395.80		
2789	ODOT MH-3	850.03	770911.23	1796298.10		

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SANITARY DETAILS

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