PRELIMINARY LAND DEVELOPMENT PLAN

FOR

PENNSYLVANIA DIGITAL 1 (PAX-1) - PHASE 2

MIDDLESEX TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

STORMWATER MANAGEMENT & UTILITY ACCESS EASEMENT

THE OWNERS HEREBY GRANT MIDDLESEX TOWNSHIP AN EASEMENT AND RIGHT TO ACCESS TO INSPECT ALL OF THE STORMWATER MANAGEMENT FACILITIES, NATURAL FEATURES, AND CONTROLS AT ANY REASONABLE TIME. MIDDLESEX TOWNSHIP IS FURTHER HEREBY GRANTED AN EASEMENT AND RIGHT OF INGRESS AND EGRESS FOR PERSONNEL, EQUIPMENT AND MATERIALS, TO ANY AND ALL STORMWATER MANAGEMENT FACILITIES AND CONTROLS, OVER, UPON, IN, UNDER, AND THROUGH THE PROPERTY, FOR PURPOSE OF MAINTENANCE AND OR REPAIR OF THE STORMWATER MANAGEMENT FACILITIES SHOWN ON THIS PLAN DUE TO FAILURE OR NEGLECT OF THE OWNER/DEVELOPER TO PERFORM THE SAME WITHIN THE REQUIRED TIME.

CERTIFICATE OF OWNERSHIP AND ACKNOWLEDGMENT OF PLAN

COMMONWEALTH OF _____ **(CORPORATE)**

COUNTY OF _____

ON THIS, THE _____ DAY OF _____, 20_____, BEFORE ME THE UNDERSIGNED OFFICER PERSONALLY APPEARED ___IGAL FEIBUSH___, BEING ___AUTHORIZED SIGNATORY___ OF **CARLISLE DEVELOPMENT PARTNERS LLC** , THE ___AUTHORIZED SIGNATORY___ OF THE PROPERTY SHOWN ON THIS PLAN, THAT HE/SHE IS AUTHORIZED TO EXECUTE SAID PLAN ON BEHALF OF THE CORPORATION, THAT THE PLAN IS THE ACT AND DEED OF THE CORPORATION, AND ON BEHALF OF THE CORPORATION, FURTHER ACKNOWLEDGES THAT ALL STREETS OR PARTS THEREOF AND OTHER LANDS INTENDED TO BE OFFERED FOR PUBLIC USE, IF NOT PREVIOUSLY DEDICATED, ARE HEREBY OFFERED FOR DEDICATION TO PUBLIC USE AND DESIRE THE SAME TO BE RECORDED AS SUCH ACCORDING TO LAW.

_____

SIGNATURE OF IDENTIFYING OWNER

_____

PRINTED NAME OF IDENTIFYING OWNER

WITNESS MY HAND AND NOTARIAL SEAL THE DAY AND THE DATE ABOVE WRITTEN.

_____ _____

NOTARY PUBLIC MY COMMISSION EXPIRES

MIDDLESEX TOWNSHIP MUNICIPAL AUTHORITY CERTIFICATE

REVIEWED BY THE MIDDLESEX TOWNSHIP MUNICIPAL AUTHORITY

REVIEWED THIS _____ DAY OF _____, 20_____.

_____

ENGINEER

MIDDLESEX TOWNSHIP BOARD OF SUPERVISORS CERTIFICATE

THIS PLAN WAS APPROVED OR CONDITIONALLY APPROVED THE _____ DAY OF _____, 20_____ BY THE MIDDLESEX TOWNSHIP BOARD OF SUPERVISORS.

ALL CONDITIONS, IF ANY IMPOSED WITH RESPECT TO SUCH APPROVAL HAVE BEEN MET ON THIS _____ DAY OF _____, 20_____.

_____

CHAIRMAN, MIDDLESEX TOWNSHIP BOARD OF SUPERVISORS

_____

TOWNSHIP SECRETARY

MIDDLESEX TOWNSHIP PLANNING COMMISSION CERTIFICATE

THIS PLAN WAS RECOMMENDED FOR APPROVAL BY THE MIDDLESEX TOWNSHIP PLANNING COMMISSION THIS _____ DAY OF _____, 20_____.

_____

CHAIRMAN, MIDDLESEX TOWNSHIP PLANNING COMMISSION

CUMBERLAND COUNTY PLANNING DEPARTMENT CERTIFICATE

THIS PLAN WAS REVIEWED BY CUMBERLAND COUNTY PLANNING DEPARTMENT

THIS _____ DAY OF _____, 20_____.

_____

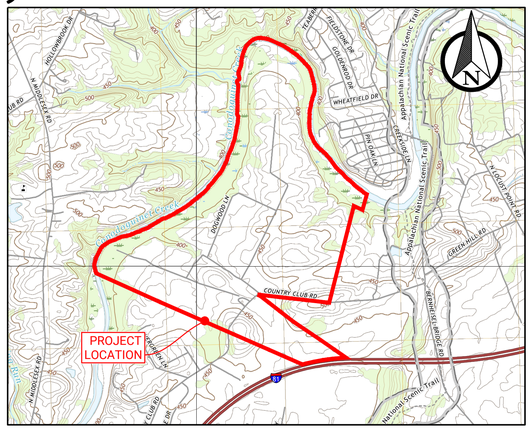
DIRECTOR OF PLANNING

WETLAND CERTIFICATION

I, **ANDREW BROOKENS** , HEREBY CERTIFY THAT I HAVE CONDUCTED A WETLANDS DELINEATION STUDY ON _____ IN ACCORDANCE WITH THE REQUIREMENTS OF THE MIDDLESEX TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE AND HAVE DETERMINED THAT REGULATORY WETLANDS EXIST ON THE SUBJECT SITE, AND THIS PLAN ACCURATELY DEPICTS THE EXTENT OF ALL WETLANDS.

AMBROOK CONSULTING, LLC
3642 PAMPAS CIRCLE
CHAMBERSBURG, PA 17202 ANDREW BROOKENS DATE

UPI CERTIFICATION BY THE CUMBERLAND COUNTY TAX ASSESSMENT OFFICE



PROJECT LOCATION MAP

CARLISLE, MECHANICSBURG, SHERMANS DALE, WERTZVILLE USGS QUAD
SCALE: AS SHOWN

2,000 0 2,000 4,000 FT

HORIZONTAL SCALE: 1 INCH = 2,000 FEET

LANDSCAPE ARCHITECT CERTIFICATE

I HEREBY CERTIFY TO THE BOARD OF SUPERVISORS OF MIDDLESEX TOWNSHIP THAT, TO THE BEST OF MY KNOWLEDGE, BASED ON RECENT ACTUAL OBSERVATION OF THE SITE, THE SPECIFIC DETAILS AND PLAN SHOWN AND DESCRIBED HEREON ARE TRUE AND CORRECT TO THE ACCURACY REQUIRED BY THE MIDDLESEX TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE AND IN ACCORDANCE WITH THE LAWS OF THE COMMONWEALTH OF PENNSYLVANIA

LIVIC CIVIL
1015 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043 DOUGLAS GAMBER, RLA

SEAL

DESIGN ENGINEER CERTIFICATE

I HEREBY CERTIFY TO THE BOARD OF SUPERVISORS OF MIDDLESEX TOWNSHIP THAT, TO THE BEST OF MY KNOWLEDGE, BASED ON RECENT ACTUAL OBSERVATION OF THE SITE, THE ENGINEERING DETAILS AND PLAN SHOWN AND DESCRIBED HEREON ARE TRUE AND CORRECT TO THE ACCURACY REQUIRED BY THE MIDDLESEX TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE AND IN ACCORDANCE WITH THE LAWS OF THE COMMONWEALTH OF PENNSYLVANIA

LIVIC CIVIL
1015 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043 CATHERINE A PRINCE, P.E.

SEAL

SURVEY CERTIFICATE

I HEREBY CERTIFY TO THE BOARD OF SUPERVISORS OF MIDDLESEX TOWNSHIP THAT, TO THE BEST OF MY KNOWLEDGE, BASED ON RECENT ACTUAL OBSERVATION OF THE SITE, THE SURVEY AND PLAN SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY THE MIDDLESEX TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE AND IN ACCORDANCE WITH THE LAWS OF THE COMMONWEALTH OF PENNSYLVANIA

LIVIC CIVIL
635 N. LOYALSOCK AVE
2ND FLOOR
MONTOURSVILLE, PA 17754 TIMOTHY R MILHOLIN, P.L.S. SU-075476

SEAL

GEOLOGIST CERTIFICATE

I HEREBY CERTIFY TO THE BOARD OF SUPERVISORS OF MIDDLESEX TOWNSHIP THAT, TO THE BEST OF MY KNOWLEDGE, BASED ON RECENT ACTUAL OBSERVATION OF THE SITE, THE GEOLOGIC DETAILS AND PLAN SHOWN AND DESCRIBED HEREON ARE TRUE AND CORRECT TO THE ACCURACY REQUIRED BY THE MIDDLESEX TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE AND IN ACCORDANCE WITH THE LAWS OF THE COMMONWEALTH OF PENNSYLVANIA

ECS MID-ATLANTIC, LLC
4909 LOUISE DRIVE
SUITE 207
MECHANICSBURG, PA 17055 KATHERINE E. LINNELL, P.G. PG-004514

SEAL

PHASE 2 PRELIMINARY LAND DEVELOPMENT PLAN

SHEET NUMBER	SHEET TITLE	PAGE NUMBER
C02 001	COVER SHEET	1
C02 002	GENERAL NOTES	2
C02 003-004	GENERAL INFORMATION	3-4
C02 005	PHASING PLAN	5
C02 006	MASTER PLAN KEYMAP	6
C02 007	PHASE 2 KEYMAP	7
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C02 010	PHASE 2 OVERALL GRADING & STORMWATER	10
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C02 101	EXISTING CONDITIONS & DEMO PLAN	13
C02 201-206	SITE LAYOUT PLAN	14-19
C02 301-306	GRADING & STORMWATER PLAN	20-25
C02 401-406	UTILITY PLAN	26-31
C02 501-514	PROFILE PLAN	32-45
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C02 801-809	DETAILS	60-68
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C02 901-904	TURNING MOVEMENTS 1	70-73

PHASE 2 MUNICIPAL UTILITY PLANS BY OTHER CONSULTANT

DESIGN OF WATER AND SEWER SERVICE TO PHASE 2 ARE IN PROCESS. PLANS WILL BE PROVIDED AT A LATER DATE.

CUMBERLAND COUNTY RECORDER OF DEEDS CERTIFICATE

RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS IN AND FOR CUMBERLAND COUNTY, PENNSYLVANIA

THIS _____ DAY OF _____ 20_____.

INSTRUMENT NUMBER _____

EASEMENT CERTIFICATION

ALL UTILITIES SHOWN HERE ON ARE COVERED BY RECORDED AND/OR NON-RECORDED EASEMENTS OR ARE UNDEDICATED AND PROPERTY OF THE LANDOWNER WHERE NO EASEMENT IS REQUIRED. ALL RIGHTS-OF-WAY HAVE BEEN SHOWN ON THE PLAN AND ALL UTILITY COMPANIES HAVE BEEN CONTACTED.

_____

TIMOTHY MILHOLIN, P.L.S. SU-075476 DATE

PHASE 2 EROSION & SEDIMENT CONTOL PLAN

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ES2 001	COVER SHEET	74
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ES2 101	EXISTING CONDITIONS	76
ES2 201	E&S STAGE 1 PLAN	77
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ES2 301-304	E&S DETAILS	79-82
ES2 305-306	E&S NOTES	83-84

REQUEST OF WAIVER/MODIFICATION

§501.A.2 - PLAN SCALE REQUIREMENTS

- WE ARE REQUESTING A MODIFICATION TO BE GRANTED FOR THIS SECTION OF THE MIDDLESEX TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE. THE PLAN SCALE EXCEEDS THE 1"=50' DUE TO THE SIZE OF THE SITE. THE PLANS ARE SET AT A SCALE TO ALLOW COMPREHENSIVE REVIEW AND LEGIBILITY.

§501.A.6 - LOCATION MAP SCALE REQUIREMENTS

- WE ARE REQUESTING A MODIFICATION TO BE GRANTED FOR THIS SECTION OF THE MIDDLESEX TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE. THE LOCATION MAP EXCEEDS 1"=1,000' DUE TO LOCATION SIZE .THE LOCATION MAP IS SET AT A SCALE TO ALLOW COMPREHENSIVE REVIEW AND LEGIBILITY.

§501.C.19 - METES AND BOUNDS

- WE ARE REQUESTING A MODIFICATION TO BE GRANTED FOR THIS SECTION OF THE MIDDLESEX TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE. THIS MODIFICATION WOULD WAIVE THE REQUIREMENT TO PROVIDE METES AND BOUNDS FOR PROPOSED EASEMENTS UNTIL THE FINAL LAND DEVELOPMENT APPLICATION. PROVIDING METES AND BOUNDS PRIOR TO FINAL APPROVAL AND DESIGN OF THE SUBJECT UTILITIES WOULD UNNECESSARILY BURDEN TOWNSHIP STAFF WITH ADDITIONAL REVIEW. INSTEAD, WE PROPOSE SUBMITTING ACCURATE METES AND BOUNDS FOR THE APPROVED EASEMENT DESIGN AT THE TIME OF THE TIME OF FINAL PLAN APPROVAL.

§703.A.10 - CURB & SIDEWALK COUNTRY CLUB ROAD

- WE ARE REQUESTING A MODIFICATION TO BE GRANTED FOR THIS SECTION OF THE MIDDLESEX TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE. MODIFICATION TO PERMIT COUNTRY CLUB ROAD IMPROVEMENTS WITHOUT THE ADDITION OF SIDEWALK, CURB AND PAVEMENT BASE DRAIN SINCE NONE OF THESE ARE CURRENTLY LOCATED WITHIN THE VICINITY OF THE PROJECT AND DO NOT BENEFIT THE COMMUNITY OR PROJECT GIVEN THE RURAL CHARACTER OF THIS ROAD. 708.C ALSO PERMITS TOWNSHIP JUDGEMENT TO WAIVE CURBING REQUIREMENTS.

§703.I.4 - DEPRESSED DRIVEWAY CURB

- WE ARE REQUESTING A MODIFICATION TO BE GRANTED FOR THIS SECTION OF THE MIDDLESEX TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE. THE CAMPUS DOES INCLUDE DRIVEWAYS ACCESS THE STREET HOWEVER, THIS TRAFFIC WILL BE GREATER THAN TYPICAL RESIDENTIAL OR SMALL BUSINESS DRIVEWAY TRAFFIC. THE DEPRESSED CURB WILL FAIL IF PLACED IN AREAS OF ROUTINE TRAFFIC.

§707 - SIDEWALK REQUIREMENTS

- WE ARE REQUESTING A MODIFICATION TO BE GRANTED FOR THIS SECTION OF THE MIDDLESEX TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE. DUE TO THE LEVEL OF SECURITY IN AND AROUND THESE FACILITIES, NO PUBLIC FOOT TRAFFIC IS EXPECTED. AS PART OF THIS WAIVER, THE NOTE "THE OWNERS OF THESE LOTS, UPON NOTIFICATION BY MIDDLESEX TOWNSHIP, SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF SIDEWALKS TO TOWNSHIP SPECIFICATION WITHIN SIX (6) MONTHS OF THE DATE OF SUCH NOTIFICATION." HAS BEEN ADDED TO THE FINAL PLAN.

§718.D.3.A, 718.D.4.A, 718.D.4.B, 718.D.4.C, 718.D.4.D - PLAN SCALE

- WE ARE REQUESTING A MODIFICATION TO BE GRANTED FOR THIS SECTION OF THE MIDDLESEX TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

§718.D.3.B - PLANS AND ELEVATIONS

- WE ARE REQUESTING A MODIFICATION TO BE GRANTED FOR THIS SECTION OF THE MIDDLESEX TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE. THE BUILDING PLANS, WHICH CONTAIN PROPRIETARY, SECURITY-SENSITIVE, AND CONFIDENTIAL INFORMATION, ARE CURRENTLY UNDER DEVELOPMENT AND WILL BE SUBMITTED AS PART OF THE FORTHCOMING BUILDING PERMIT APPLICATION. GRANTING THIS MODIFICATION WOULD PROTECT THE PROPRIETARY AND SECURITY-SENSITIVE NATURE OF THE BUILDING DESIGN DETAILS, AVOID REDUNDANT OR PREMATURE SUBMISSION OF INFORMATION, STREAMLINE THE LAND DEVELOPMENT REVIEW PROCESS FOR BOTH THE APPLICANT AND TOWNSHIP STAFF, AND ENSURE THAT COMPLETE AND FINAL BUILDING INFORMATION IS APPROPRIATELY SUBMITTED AND EVALUATED UNDER THE BUILDING PERMIT PROCEDURES.

§303 J.3 - DETENTION BASIN SLOPES

- WE ARE REQUESTING A MODIFICATION TO BE GRANTED FOR THIS SECTION OF THE MIDDLESEX TOWNSHIP STORMWATER MANAGEMENT ORDINANCE. WE REQUEST THE ABILITY TO SET SIDE SLOPES AT 3H:1V AND FOR BASIN BOTTOMS TO BE FLAT. BASINS WILL BE LANDSCAPED WITH WETLAND VEGETATION AND WILL NOT BE MOWED.

§303 H.17 - DEWATERING

- WE ARE REQUESTING A MODIFICATION TO BE GRANTED FOR THIS SECTION OF THE MIDDLESEX TOWNSHIP STORMWATER MANAGEMENT ORDINANCE. THE APPLICANT HAS DESIGNED THE STORMWATER BMP FACILITIES IN ACCORDANCE WITH DEP REQUIREMENTS AND WORKSHEETS WHICH ALLOW UP TO 72 HOURS FOR DEWATERING TO OCCUR. A MODIFICATION TO ALLOW THE DESIGN TO ADHERE TO DEP REQUIREMENTS IS REQUESTED.

§303 B.2 - INFILTRATION OF STORMWATER

- WE ARE REQUESTING A MODIFICATION TO BE GRANTED FOR THIS SECTION OF THE MIDDLESEX TOWNSHIP STORMWATER MANAGEMENT ORDINANCE. FOLLOWING EXTENSIVE INFILTRATION TEST OF THE SITE, IT HAS BEEN CONCLUDED THAT THE SITE HAS NEARLY NO PERMEABILITY. IN A COUPLE SELECT LOCATIONS INFILTRATION BASINS HAVE BEEN DESIGNED AN INCLUDED TO THE MAXIMUM EXTEND PRACTICAL. OTHERWISE, DEP HAS REQUIRED THAT WE UTILIZE A NEW ALTERNATIVE BMP DESIGN WHICH NEW TO THE STATE. THIS UTILIZES SMALL MRC CELLS FOR WATER QUALITY WITH BYPASS OF HIGHER STORMS FOR DETENTION. WHILE NOT DESIGNED FOR THESE DETENTION AND MRC BASINS WILL NATURALLY INFILTRATE SOME SMALL AMOUNT OF WATER WHILE BUT THE MAJORITY WILL DISCHARGE LATERALLY TO THE ADJACENT FLOODPLAIN OF THE CREEK AND MIMIC EXISTING RUNOFF CHARACTERISTICS OF THE SITE.

REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT JHR
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/6/2026	RJT JHR
1	11/26/2025	INITIAL SUBMISSION	RJT JHR

ISSUE / REVISIONS

LIVIC civil
1015 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987.1993
www.liviccivil.com

ALL CONTENTS OF THIS PLAN ARE PROPRIETARY AND SHALL NOT BE REPRODUCED OR UTILIZED FOR ANY PURPOSE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM LIVIC CIVIL, LLC. ONLY APPROVED, SEALED PLANS SHALL BE IMPLEMENTED FOR CONSTRUCTION PURPOSES.
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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

COVER SHEET

SHEET NO.

C02 001

CONSTRUCTION/BLASTING NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING DEPTHS AND LOCATIONS OF ANY AND ALL UTILITIES WHICH FALL WITHIN OR ADJACENT TO THE LIMITS OF WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATELY REARING ANY DAMAGED UTILITY THAT OCCURS DURING CONSTRUCTION, AT THEIR EXPENSE. THE CONTRACTOR IS REQUIRED TO COMPLETE THEIR UTILITY NOTIFICATIONS PER STATE LAW AND FOLLOW ANY AND ALL REGULATIONS.
2. THE CONTRACTOR IS TO NOTIFY OWNER/ENGINEER, IN WRITING, OF ANY UTILITY CONDITIONS AT THE SITE DIFFERING FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH UTILITY OWNERS FOR THE ADJUSTMENT OR RELOCATION OF UTILITY SURFACE FEATURES, I.E. VALVE BOXES, UTILITY POLES, MANHOLES, ETC. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION OF CONFLICTING UTILITIES WHICH ARE A RESULT OF THESE IMPROVEMENTS.
3. THE CONTRACTOR SHALL CONSTRUCT ALL PROPOSED IMPROVEMENTS AS SHOWN HEREON IN ACCORDANCE WITH THE REQUIREMENTS OF MIDDLESEX TOWNSHIP.
4. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL BENCH MARKS AND CONTROL POINTS DURING CONSTRUCTION. CONTRACTOR SHOULD SET ADDITIONAL CONTROL AS DEEMED APPROPRIATE.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE, REVIEW AND UNDERSTAND THE PLAN AND SPECIFICATIONS AND VERIFY ALL FIELD CONDITIONS, DIMENSIONS, DRAWINGS AND SPECIFICATIONS. ANY INCONSISTENCIES OR AMBIGUITIES IN THE DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE PROJECT'S OWNER IN WRITING. WORK COMPLETED BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES OR AMBIGUITIES, WITHOUT RECEIVING A RESPONSE FROM THE PROJECT'S OWNER, SHALL BE DONE AT THE CONTRACTOR'S RISK.
6. THE CONTRACTOR SHALL COMPLETE THEIR UTILITY NOTIFICATIONS PER STATE LAW. CONTRACTOR IS TO NOTIFY OWNER/ENGINEER, IN WRITING, OF ANY UTILITY CONDITIONS AT THE SITE DIFFERING FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS.
7. THE CONTRACTOR IS REQUIRED TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS, CODES AND REGULATIONS.
8. THE CONTRACTOR AND ANY SUBCONTRACTORS SHALL BE NOTIFIED THAT THEY ARE REQUIRED TO COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), WHICH APPLY TO ALL PHASES OF CONSTRUCTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL, TRENCH SAFETY, COVERING, PLATING, SHEETING, SHORING AND SHORING DESIGN AS NEEDED.
10. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE SAFE FLOW OF TRAFFIC DURING CONSTRUCTION. MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH PennDOT PUBLICATION 213, "TEMPORARY TRAFFIC CONTROL GUIDELINES", AS AMENDED.
11. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL REQUIRED NOTIFICATIONS AS SPECIFIED ON SUPPLIED PERMIT OF PERMIT PLANS. THIS INCLUDES MUNICIPALITIES, CONSERVATION DISTRICTS, PADEP, AND OTHER REGULATORY AGENCIES.
12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH UTILITY OWNERS FOR THE ADJUSTMENT OR RELOCATION OF UTILITY SURFACE FEATURES, I.E. VALVE BOXES, UTILITY POLES, MANHOLES, ETC. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION OF CONFLICTING UTILITIES WHICH ARE A RESULT OF THESE IMPROVEMENTS.
13. CONSTRUCTION IS TO BE BASED ON ACTUAL FIELD STAKING OF IMPROVEMENTS BY A REGISTERED PROFESSIONAL ENGINEER. ANY DEVIATIONS FROM THE STAKEOUT OR PLAN SHALL NOT BE PERMITTED WITHOUT APPROVAL.
14. THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE ACROSS ALL GRADED AREAS IS PROVIDED AND NO LOW SPOTS OR PONDING OCCUR WITHIN THE LIMITS OF WORK UNLESS NATURALLY OCCURRING.
15. ALL EXISTING SIGNS, WHICH ARE DISTURBED DURING CONSTRUCTION, SHALL BE REINSTALLED IMMEDIATELY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
16. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING MEASURES TO PREVENT DAMAGE TO ALL EXISTING FEATURES (TO REMAIN) WITHIN THE PROJECT LIMITS AND ALONG ADJACENT PROPERTIES.
17. ALL AREAS WHICH ARE DISTURBED BY CONSTRUCTION, THAT ARE NOT TO BE PAVED OR HAVE SPECIFIC RESTORATION DETAILS, SHALL BE RESTORED WITH A MINIMUM SIX (6") INCHES OF TOPSOIL AND SEEDED AND MULCHED.
18. PER PennDOT PUBLICATION 408, SECTION 409.3-CONSTRUCTION, NO BITUMINOUS PAVEMENT WILL BE PLACED BETWEEN NOVEMBER 1 AND MARCH 31, UNLESS AN EXTENSION OF THE PAVING SEASON IS GRANTED IN WRITING BY THE MUNICIPAL ENGINEER. ALL ASPHALT TO ASPHALT AND ASPHALT TO CONCRETE JOINTS SHALL BE SEALED IN ACCORDANCE WITH PUB 408, SECTION 409.3(K)3.
19. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT THE WORKMEN AND THE PUBLIC SHALL BE PROTECTED FROM INJURY WHILE PROTECTING THE ADJOINING PROPERTY FROM DAMAGE. THE CONTRACTOR SHALL KEEP THE WORK AREA FREE OF ACCUMULATION OF WASTE MATERIAL. THE CONTRACTOR SHALL REMOVE ALL WASTE MATERIAL FROM THE PROJECT SITE, AS WELL AS ALL TOOLS, EQUIPMENT AND SURPLUS MATERIAL.
20. THE CONTRACTOR SHALL CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREON WITH THE CURRENT EDITION, AS SUPPLEMENTED AND AMENDED, OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION (PENNDOT) PUBLICATION 408, SPECIFICATIONS, AND PENNDOT PUBLICATION 72M, STANDARDS FOR ROADWAY CONSTRUCTION (RC DRAWINGS).
21. THE DESIGNATION OF EXCESS WASTE DISPOSAL AND CONSTRUCTION STAGING AREAS, WHICH MAY BE REQUIRED BUT ARE NOT SHOWN ON THE PLANS, ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL CONSTRUCTION WASTE AND DEBRIS, INCLUDING EXCESS EXCAVATED MATERIAL, ASPHALT, CONCRETE, SCRAP WOOD, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THIS MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
22. ALL TRENCHING SHALL OCCUR AS DESIGNATED BY THE PLANS. THE CONTRACTOR SHALL USE EQUIPMENT APPROPRIATE TO MAINTAIN A MAXIMUM PAVEMENT OPENING. IF A REVISED TRENCHING METHOD OR ALIGNMENT IS PROPOSED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND OWNER IMMEDIATELY.
23. DURING GRADING OPERATIONS, NECESSARY MEASURES SHALL BE TAKEN TO PREVENT EROSION OR SILTATION OF NATURAL DRAINAGEWAYS, AND ALL NECESSARY MEASURES FOR DUST CONTROL WILL BE EXERCISED.
24. ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATER FROM DAMAGING THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACES OF FILLS.
25. ALL FILL SHALL BE PLACED AND COMPACTED SO AS TO MINIMIZE SLIDING OR EROSION OF THE SOIL.
26. ALL FILL PLACED ADJACENT TO NATURAL WATERCOURSES OR CONSTRUCTED CHANNELS SHALL HAVE SUITABLE PROTECTION AGAINST EROSION DURING PERIODS OF FLOODING
27. ALL EXCAVATIONS SHALL BE KEPT DRY TO PROTECT THEIR INTEGRITY. A SEDIMENT FILTER BAG OR EQUAL IMPLEMENTATION OF FILTERING IS REQUIRED BEFORE DISCHARGING.
28. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONTINUOUSLY MAINTAINED, RELOCATED WHEN NECESSARY AND SHALL BE INSPECTED AFTER EVERY RAINFALL EVENT. THE CONTRACTOR SHALL CHECK SEEDED AREAS REGULARLY. THESE AREAS SHALL BE WATERED, FERTILIZED, RESEED AND MULCHED AS NECESSARY, TO OBTAIN STABILIZED COVER.
29. THE CONTRACTOR SHALL COMPLY WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN. RE-GRADING, STRIPPING OF VEGETATION AND ANY OTHER WORK, SHALL BE DONE IN A MANNER TO MINIMIZE EROSION. EROSION AND SEDIMENT CONTROL BMPs REQUIRED BY THE CONSERVATION DISTRICT SHALL BE INSTALLED BY THE CONTRACTOR. SHOULD SEDIMENTATION OCCUR, IT IS THE RESPONSIBILITY OF THE ENTITY CAUSING THE SEDIMENTATION TO REMOVE IT FROM ANY AFFECTED AREAS. ANY DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY. TEMPORARY VEGETATION AND/OR MULCHING MAY BE UTILIZED TO PROTECT EXPOSED CRITICAL AREAS DURING CONSTRUCTION. DUST CONTROL MEASURES SHOULD BE EXERCISED DURING THE ENTIRETY OF CONSTRUCTION.
30. PROTECTION FROM EXCESSIVE COMPACTING AROUND PROPOSED STORMWATER MANAGEMENT FACILITIES WILL BE PROVIDED BY THE CONTRACTOR TO PROMOTE INFILTRATION.
31. TOPSOIL REMOVED SHALL BE REDISTRIBUTED AND STABILIZED AS QUICKLY AS POSSIBLE FOLLOWING THE ESTABLISHMENT OF REQUIRED GRADES FOR A PROJECT OR PROJECT PHASE. ALL EXPOSED EARTH SURFACES SHALL BE STABILIZED BY HYDRO- SEEDING, OR AN APPROVED EQUIVALENT METHOD, ON SLOPES OF LESS THAN TEN PERCENT (10%) AND BY SODDING OR HYDRO-SEEDING ON SLOPES EXCEEDING TEN PERCENT (10%)
32. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH PROVISIONS AND REQUIREMENTS OF ARTICLE 14 OF MIDDLESEX TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE RELATED TO CONTRACTOR PRE-CONSTRUCTION OBLIGATION AS WELL AS CONSTRUCTION REQUIREMENTS, MUNICIPAL NOTIFICATIONS, INSPECTION AND CLOSEOUT REQUIREMENTS.
33. THE TOWNSHIP ENGINEER SHALL BE PRESENT, UNLESS INDICATED OTHERWISE, DURING CONSTRUCTION OF STORMWATER BEST MANAGEMENT PRACTICES (BMPs), TO PERFORM MATERIAL CHECKS AND TO OBSERVE FOR PROPER CONSTRUCTION. PRIOR TO CONSTRUCTION, SPECIFICATIONS AND/OR DETAILS SHALL BE SUBMITTED TO THE TOWNSHIP FOR REVIEW AND APPROVAL.
34. IN THE EVENT THAT CHANGES TO APPROVED PLANS ARE REQUIRED PRIOR TO OR DURING THE CONSTRUCTION PHASE OF THE WORK DUE TO UNFORESEEN FIELD CONDITIONS, FILE UTILITY DESIGN, OR OTHER SIMILAR CHANGES OR CONFLICTS ENCOUNTERED DURING CONSTRUCTION, THE TOWNSHIP SHALL BE NOTIFIED IMMEDIATELY SO THAT THE PROPOSED CHANGES CAN BE REVIEWED PRIOR TO IMPLEMENTATION. ANY DESIGN CHANGES MADE WITHOUT REVIEW AND APPROVAL BY THE TOWNSHIP SHALL BE CONSIDERED DEFECTIVE WORK AND SHALL BE SUBJECT TO REMOVAL AND RECONSTRUCTION.
35. EXISTING WELLS SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH PADEP (TITLE 25, CHAPTER 73). WELLS SHALL BE FILLED, SEALED, AND CAPPED WITH APPROVED MATERIALS TO PREVENT CONTAMINATION PATHWAYS.
36. CONTRACTOR MUST OBTAIN A PERMIT-BY-RULE OR BLASTING ACTIVITY PERMIT AS DIRECTED BY DEP.
37. ALL STORAGE, HANDLING AND USE OF EXPLOSIVES SHALL BE IN STRICT CONFORMANCE TO PA CODE TITLE 25 CHAPTER 211.
38. A PRE-BLAST SURVEY SHALL BE COMPLETED AND CORRESPONDENCE WITH NEARBY PROPERTY OWNERS KEPT ON FILE FOR THE PROJECT.
39. BLASTER SHALL CONTACT PA ONE CALL PRIOR TO ACTIVITIES.
40. AS OUTLINED IN THIS SECTION THE CONTRACTOR SHALL ENSURE BLAST REPORTS ARE MAINTAINED AND INCLUDE THE FOLLOWING IN ACCORDANCE WITH PA CODE.
    a. (A) THE BLASTER-IN-CHARGE SHALL PREPARE A REPORT OF EACH BLAST TO PROVIDE THE DEPARTMENT WITH SUFFICIENT INFORMATION TO RECONSTRUCT THE CONDITIONS AND EVENTS SURROUNDING A BLAST. THE DEPARTMENT MAY DEVELOP AND REQUIRE A BLAST REPORT FORM TO BE USED. THE BLASTING ACTIVITY PERMITTEE SHALL RETAIN THE BLAST REPORT FOR AT LEAST 3 YEARS AND SHALL MAKE THE BLAST REPORT AVAILABLE TO THE DEPARTMENT UPON REQUEST. BLAST REPORTS MUST CONTAIN, AT A MINIMUM, ALL OF THE FOLLOWING:
    b. THE LOCATION OF AT LEAST ONE CORNER OF THE BLAST PATTERN EXPRESSED IN LATITUDE AND LONGITUDE.

CONSTRUCTION/BLASTING NOTES CONT.

    d. THE LATITUDE AND LONGITUDE AND A BRIEF DESCRIPTION OF THE MONITORING LOCATIONS. IF MONITORING IS CONDUCTED AT A HOME OR OTHER BUILDING WITH A 911 ADDRESS, THE ADDRESS OF THE STRUCTURE MUST BE PROVIDED.
    e. THE NAME OF THE BLASTING ACTIVITY PERMITTEE AND BLASTING CONTRACTOR, IF APPLICABLE.
    f. THE BLASTING ACTIVITY PERMIT OR APPROPRIATE MINING PERMIT NUMBER.
    g. THE DATE AND TIME OF THE BLAST.
    h. THE PRINTED NAME, SIGNATURE AND LICENSE NUMBER OF THE BLASTER-IN-CHARGE.
    i. THE TYPE OF MATERIAL BLASTED.
    j. A SKETCH SHOWING THE NUMBER OF BLAST HOLES, BURDEN, SPACING, PATTERN DIMENSIONS, DELAY TIMING SEQUENCE, DESCRIPTION OF THE CONDITIONS OF THE AREA IMMEDIATELY SURROUNDING THE BLAST SITE WHICH INCLUDES IDENTIFYING IF THE AREA IS SOLID ROCK, A MUCK PILE FROM A PREVIOUS BLAST OR AN OPEN FACE, AND POINT OF INITIATION.
    k. THE DIAMETER AND DEPTH OF EACH BLAST HOLE.
    l. THE HEIGHT OR LENGTH OF STEMMING AND DECK SEPARATION FOR EACH HOLE.
    m. THE AMOUNT OF EXPLOSIVES LOADED IN EACH BOREHOLE.
    n. THE TYPES OF EXPLOSIVES USED AND ARRANGEMENT IN BLAST HOLES.
    o. THE TOTAL WEIGHT IN POUNDS OF EXPLOSIVES, PRODUCT DENSITY FOR BULK BLASTING AGENTS, WEIGHT OF PACKAGED BLASTING AGENTS AND PRIMER CARTRIDGES USED.
    p. THE MAXIMUM WEIGHT IN POUNDS OF EXPLOSIVES DETONATED PER DELAY PERIOD OF LESS THAN 8 MILLISECONDS.
    q. THE TYPE OF CIRCUIT, IF ELECTRIC DETONATION WAS USED.
    r. THE DIRECTION IN DEGREES AND DISTANCE IN FEET FROM THE BLAST SITE TO THE NEAREST BUILDING NOT OWNED OR LEASED BY THE BLASTING ACTIVITY PERMITTEE OR ITS CUSTOMER.
    s. A GENERAL DESCRIPTION, INCLUDING THE STREET ADDRESS AND LATITUDE AND LONGITUDE, OF THE NEAREST BUILDING NOT OWNED OR LEASED BY THE BLASTING ACTIVITY PERMITTEE OR ITS CUSTOMER.
    t. THE SQUARE ROOT SCALED DISTANCE TO THE NEAREST BUILDING OR OTHER STRUCTURE NEITHER OWNED NOR LEASED BY THE BLASTING ACTIVITY PERMITTEE OR ITS CUSTOMER EXCEPT FOR DEMOLITION BLASTING OPERATIONS WHERE THE CUBE ROOT SCALED DISTANCE MUST BE USED.
    u. THE WEATHER CONDITIONS.
    v. THE DIRECTION FROM WHICH THE WIND WAS COMING.
    w. THE MEASURES TAKEN TO CONTROL FLYROCK, INCLUDING WHETHER OR NOT MATS WERE USED.
    x. THE TOTAL QUANTITY AND TYPE OF DETONATORS USED AND DELAYS USED.
    y. THE NUMBER OF INDIVIDUALS IN THE BLASTING CREW.
    z. THE MAXIMUM NUMBER OF BLAST HOLES OR PORTIONS OF BLAST HOLES DETONATED PER DELAY PERIOD LESS THAN 8 MILLISECONDS.
    aa. A DRILL LOG SHOWING THE CONDITION OF ALL OF THE BLAST HOLES PRIOR TO LOADING AND ANY OTHER BORE HOLES IN THE BLAST SITE.
    bb. (THE MONITORING RECORDS REQUIRED UNDER § 211.173 (RELATING TO MONITORING RECORDS). MONITORING RECORDS SHALL BE MADE PART OF THE BLAST REPORT WITHIN 30 DAYS OF THE BLAST. BEGINNING JULY 14, 2004, MONITORING RECORDS SHALL BE MADE PART OF THE BLAST REPORT WITHIN 14 DAYS OF THE BLAST. THE DEPARTMENT MAY GRANT A WAIVER TO ALLOW MONITORING RECORDS TO BE MADE PART OF THE BLASTING RECORD WITHIN 30 DAYS OF THE BLAST IF ALL BLASTS, REGARDLESS OF SCALED DISTANCE, ARE MONITORED AND MONTHLY SUMMARIES OF THESE REPORTS, INCLUDING THE INFORMATION REQUIRED UNDER SUBSECTION (B), ARE PROVIDED. MONITORING RECORDS SHALL BE MADE PART OF THE BLAST REPORT WITHIN 7 DAYS, IF REQUESTED BY THE DEPARTMENT.
    cc. IF A MISFIRE OCCURRED, THE ACTIONS TAKEN TO MAKE THE SITE SAFE AS SPECIFIED IN § 211.157 (RELATING TO POSTBLAST MEASURES).
    dd. THE DEPARTMENT OR TOWNSHIP MAY REQUIRE MONTHLY SUMMARIES OF THESE REPORTS. THE SUMMARIES MUST INCLUDE THE DATE AND TIME OF THE BLASTS, SCALED DISTANCE, PEAK PARTICLE VELOCITY, AIRBLAST, MONITORING LOCATION, AMOUNT AND TYPES OF EXPLOSIVES USED, AND OTHER INFORMATION THE DEPARTMENT DEEMS NECESSARY TO ENSURE COMPLIANCE WITH THIS CHAPTER.
40. PRIOR TO DETONATING A BLAST, THE BLASTER-IN-CHARGE SHALL:
    a. ENSURE THAT ALL EXCESS EXPLOSIVES HAVE BEEN REMOVED FROM THE BLAST AREA AND ARE LOCATED IN A SAFE AREA.
    b. INSPECT THE BLAST SITE TO ENSURE THAT CONNECTIONS ARE PROPER AND ADEQUATE.
    c. ENSURE THAT THE BLAST AREA IS CLEARED AND SAFEGUARDED.
    d. IN ADDITION TO THE WARNING SIGNAL, NOTIFY ALL PERSONS WHO MAY BE IN DANGER.
    e. ENSURE THAT THE NECESSARY PRECAUTIONS ARE IN PLACE TO PROTECT THE PUBLIC ON PUBLIC ROADS.
    f. AT LEAST 1 MINUTE BUT NO MORE THAN 2 MINUTES PRIOR TO DETONATION, SOUND A WARNING SIGNAL OF THREE BLASTS, EACH LASTING APPROXIMATELY 5 SECONDS. THE WARNING SIGNAL SHALL BE OF SUFFICIENT POWER TO BE HEARD 1,000 FEET (304.80 METERS) FROM THE BLAST SITE.
41. A BLAST MAY BE DETONATED ONLY BETWEEN SUNRISE AND SUNSET. ONLY THE BLASTER-IN-CHARGE MAY DETONATE A BLAST.
42. POST BLAST MEASURES
    a. AFTER A BLAST HAS BEEN DETONATED, NO ONE MAY RETURN TO THE BLAST AREA UNTIL ALL SMOKE AND FUMES HAVE DISSIPATED.
    b. AFTER THE SMOKE AND FUMES HAVE CLEARED, THE BLASTER-IN-CHARGE SHALL RETURN TO THE BLAST SITE AND CLOSELY INSPECT THE BLAST SITE TO ENSURE THAT IT IS SAFE WITH RESPECT TO THE BLASTING ACTIVITY.
    c. AFTER THE BLASTER-IN-CHARGE HAS DETERMINED THE BLAST AREA IS SAFE, THE BLASTER-IN-CHARGE SHALL SOUND AN ALL-CLEAR SIGNAL, CONSISTING OF ONE LONG BLAST, LASTING APPROXIMATELY 10 SECONDS. THIS ALL-CLEAR SIGNAL SHALL BE OF SUFFICIENT POWER TO BE HEARD 1,000 FEET (304.80 METERS) FROM THE BLAST SITE.
    d. THE BLASTER-IN-CHARGE SHALL DETERMINE IF A MISFIRE OCCURRED AND SHALL TAKE ALL ACTIONS NECESSARY TO RENDER THE BLAST SITE SAFE. THE BLAST SITE SHALL BE MADE SAFE BEFORE DRILLING OR MUCK REMOVAL BEGINS.
    e. IF THE BLASTER-IN-CHARGE SUSPECTS THAT UNDETONATED AMMONIUM NITRATE/FUEL MIXTURE REMAINS IN THE MUCK PILE, THE MUCK PILE SHALL BE THOROUGHLY WETTED DOWN WITH WATER BEFORE ANY DIGGING IS ATTEMPTED. SPECIAL ATTENTION SHALL BE GIVEN TO DETERMINE IF PRIMERS, OTHER EXPLOSIVES OR DETONATORS ARE PRESENT IN THE MUCK PILE.
    f. THE BLASTER-IN-CHARGE SHALL IMMEDIATELY COMPLETE THE BLAST REPORT AS REQUIRED BY § 211.133 (RELATING TO BLAST REPORT).
    g. THE BLASTER-IN-CHARGE SHALL NOTIFY THE DEPARTMENT WITHIN 24 HOURS OF THE OCCURRENCE OF A MISFIRE. A COPY OF THE BLAST REPORT SHALL BE FORWARDED TO THE DEPARTMENT.

PLAN NOTES

1. EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON EXISTING MAPPING RECORDS AND/OR EVIDENCE OF ABOVE GROUND FACILITIES. THE EXACT LOCATION (HORIZONTAL & VERTICAL) OR ACCURACY THERE OF IS NOT GUARANTEED.
2. THE OWNER SHALL PREPARE AND EXECUTE NECESSARY UTILITY EASEMENTS FOR PROPOSED RELOCATED UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS BY THE UTILITY OWNER.
3. EXISTING INFORMATION AND FEATURES SHOWN HEREIN WERE ESTABLISHED FROM AN AMALGAMATION OF LIDAR, A UAV FLIGHT AND A FIELD SURVEY, PERFORMED BY LIVIC CIVIL, BETWEEN DECEMBER 2023, APRIL 2024, AND JULY 2025.
4. A TITLE REPORT HAS BEEN ISSUED BY CHICAGO TITLE INSURANCE COMPANY. LIVIC CIVIL DOES NOT CERTIFY OR HAS MADE ANY ADDITIONAL INVESTIGATION OF CHAIN OF TITLE SEARCH REGARDING ANY SUCCESSORS, ASSIGNING OR HEIRS OF EASEMENTS, ENCUMBRANCES, COVENANTS, OWNERSHIPS OR SUCH THAT A TITLE SEARCH MAY DISCLOSE, OTHER THAN WHAT IS SHOWN ON THIS PLAN.
5. CONODOGUINET CREEK IS LOCATED WITHIN THE PROJECT AREA. IT IS CONSIDERED A NAVIGABLE STREAM AND IS THE ONLY STREAM OR RUN TO BE LOCATED WITHIN THE PROJECT LIMITS.
6. BASED ON A PENNSYLVANIA NATURAL DIVERSITY INDEX SEARCH, NO KNOWN CONFLICTS WERE IDENTIFIED WITHIN THE PROJECT SITE.
    - SURVEYS CONDUCTED IN JULY 2024 AND APRIL 2025 IDENTIFIED:
    - LIMESTONE PETUNIA (RUELLIA STREPENS; PA THREATENED) - EXTENSIVE FLOODPLAIN POPULATION.
    - WHITE TROUT-LILY (ERYTHRONIUM ALBIDUM; PA RARE) - SMALL FLOODPLAIN POPULATION.
    - VIRGINIA MALLOW (RIPARIOSIDA HERMAPHRODITA; PA ENDANGERED) - NOT DETECTED WITHIN THE TRACT.
    - INDIANA BAT (MYOTIS SODALIS) - "MAY AFFECT, NOT LIKELY TO ADVERSELY AFFECT" (NLAA) DETERMINATION.
        - TREE CLEARING IS ALLOWED FROM OCTOBER 1ST THROUGH MARCH 31ST.
    - A BALD EAGLE (HALIAEETUS LEUCOCEPHALUS) NEST HAS BEEN IDENTIFIED ON THE SITE. FIELD RECONNAISSANCE TO DATE SHOWS NO EVIDENCE OF ACTIVE USE DURING RECENT SURVEYS. THE MAJORITY OF PLANNED DEVELOPMENT IS MORE THAN 330 FEET FROM THE NEST, WITH ALL WORK, EXCEPT GRADING OF ONE STORMWATER BASIN, OCCURRING WITHIN THE 660-FOOT BUFFER ZONE. FOR ANY WORK WITHIN 660 FEET, CONSTRUCTION WILL BE SCHEDULED OUTSIDE OF THE BALD EAGLE BREEDING SEASON IF THE NEST IS ACTIVE, PER STATE AND FEDERAL GUIDELINES.

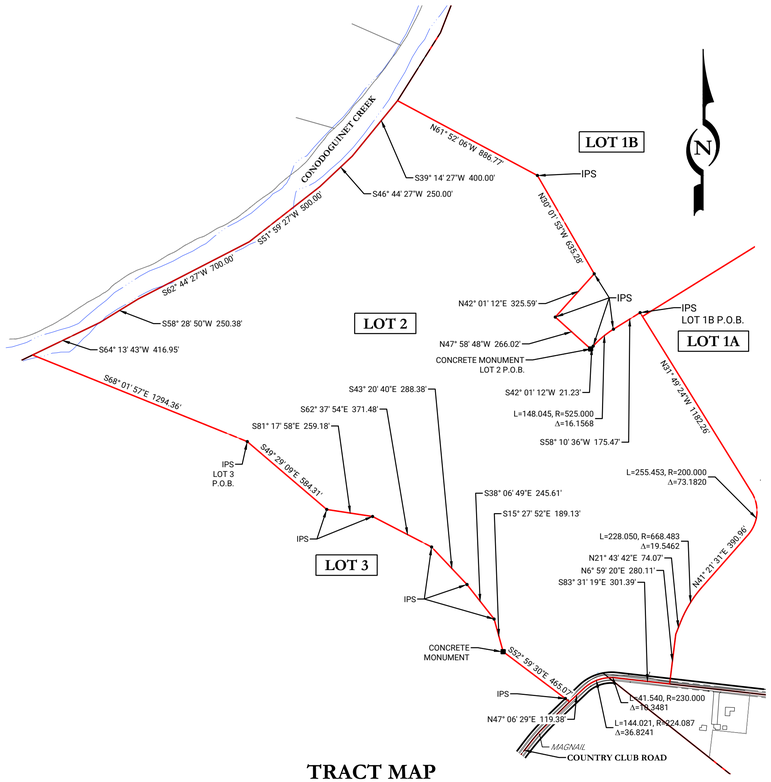
BALD EAGLE AVOIDANCE MEASURES

AM 1 - N/A
AM 2 - MAINTAIN A DISTANCE BUFFER OF AT LEAST 660 FEET (200 METERS) BETWEEN ALL PROJECT ACTIVITIES AND THE NEST. IF THERE IS AN EXISTING HUMAN-MADE FEATURE (E.G., HOUSE, ROAD, DOCK) SIMILAR TO YOUR PROJECT THAT IS CLOSER THAN 660 FEET AND TOLERATE BY NESTING EAGLES, MAINTAIN A DISTANCE BUFFER EQUAL TO OR GREATER THAN THE DISTANCE SEPARATING THAT TOLERATED FEATURE AND NEST.
AM 3 - DO NOT PERFORM DISRUPTIVE PROJECT ACTIVITIES WITHIN 600 FEET (200 METERS) OF THE NEST DURING THE BREEDING SEASON. THIS TIME-OF-YEAR RESTRICTION IS IN ADDITION TO YOUR RECOMMENDED DISTANCE BUFFER. DISRUPTIVE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, EXTERNAL CONSTRUCTION, EXCAVATION, USE OF HEAVY EQUIPMENT, USE OF LOUD EQUIPMENT OR MACHINERY, VEGETATION CLEARING, EARTH DISTURBANCE, PLANTING, AND LANDSCAPING.
AM 4 - N/A
AM 5 - MAINTAIN EXISTING LANDSCAPE BUFFERS THAT VISUALLY SCREEN THE ACTIVITY FROM THE NEST.

PLAN NOTES CONT.

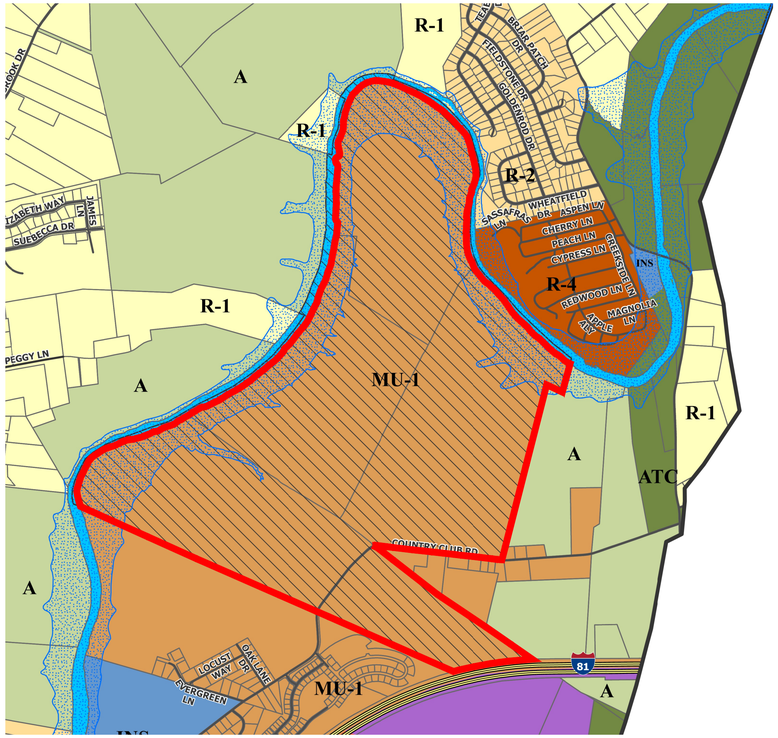
AM 6 - WITHIN 660 FEET (200 METERS) OF THE NEST, PERFORM ALL LOUD AND INTRUSIVE MAINTENANCE AND RESTORATION WORK OUTSIDE THE BREEDING SEASON. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: CONSTRUCTION, EXCAVATION, USE OF HEAVY EQUIPMENT, USE OF LOUD EQUIPMENT OR MACHINERY, VEGETATION CLEARING, EARTH DISTURBANCE, PLANTING, LANDSCAPING, AND HABITAT RESTORATION ACTIVITIES.
AM 7 - MAINTAIN EXISTING LANDSCAPE BUFFERS THAT VISUALLY SCREEN THE ACTIVITY FROM THE NEST.
AM 8 - N/A
AM 9 - N/A
AM 10 - DO NOT PERFORM CLEAR-CUTTING OR OVERSTORY TREE REMOVAL WITHIN 330 FEET (100 METERS) OF THE NEST AT ANY TIME OF THE YEAR.
AM 11 - DURING BREEDING SEASON, DO NOT PERFORM TIMBER HARVESTING, ROAD CONSTRUCTION, CHAIN SAW USE, OR YARDING OPERATIONS WITHIN 660 FEET (200 METERS) OF THE NEST. AROUND ALTERNATE NESTS (INCLUDING NESTS THAT WERE ATTENDED DURING THE CURRENT BREEDING SEASON BUT NOT USED TO RAISE YOUNG), YOU MAY REDUCE THIS DISTANCE TO 330 FEET (100 METERS), PROVIDING THE EGGS LAID IN ANOTHER NEST WITHIN THE NESTING TERRITORY HAVE HATCHED.
AM 12 - N/A
AM 13 - N/A
AM 14 - N/A
AM 15 - DURING THE BREEDING SEASON, DO NOT FLY WITHIN 1000 FEET (305 METERS) OF BALD EAGLE NESTS.
AM 16 - DURING THE BREEDING SEASON, DO NOT PERFORM BLASTING AND OTHER ACTIVITIES THAT PRODUCE EXTREMELY LOUD NOISES WITHIN ¼ MILE (800 METERS) OF IN-USE NESTS. THIS MEASURE ALSO APPLIES TO THE USE OF FIREWORKS CLASSIFIED BY THE FEDERAL DEPARTMENT OF TRANSPORTATION AS CLASS B EXPLOSIVES, WHICH THE LARGER FIREWORKS INTENDED FOR LICENSED PUBLIC DISPLAY.
AM 17 - STAY AT LEAST 330 FEET (100 METERS) FROM THE NEST IF YOU WALK, BIKE, CANOE, CAMP, FISH, OR HUNT NEAR AN EAGLES NEST DURING THE BREEDING SEASON AND YOUR ACTIVITY WILL BE VISIBLE OR CAN BE HEARD FROM THE NEST.
AM 18 - STAY AT LEAST 330 FEET (100 METERS) FROM THE NEST. IN OPEN AREAS, WHERE THERE IS INCREASED VISIBILITY AND EXPOSURE TO NOISE, STAY AT LEAST 660 FEET (200 METERS) FROM THE NEST.
AM 19 - N/A
AM 20 - N/A
AM 21 - N/A

7. THIS PLAN IS NOT INTENDED TO REPRESENT ANY SUBSURFACE CONDITIONS, INCLUDING THE LOCATION OF BEDROCK OR OTHER GEOLOGICAL CONDITIONS.
8. ALL STORMWATER MANAGEMENT FACILITIES AND BMPs SHALL BE PERMANENT FIXTURES AND CANNOT BE MODIFIED WITHOUT PRIOR APPROVAL OF THE MUNICIPALITY AND COUNTY CONSERVATION DISTRICT. MODIFICATION, REMOVAL, FILING, LANDSCAPING, OR ALTERING ANY STORMWATER FACILITY, BMP OR EASEMENT, SHALL BE OTHERWISE PROHIBITED.
9. THE FINAL LAND DEVELOPMENT PLAN, ON ITS OWN, MAY NOT BE SUITABLE FOR CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO VERIFY WITH THE OWNER/PROJECT ENGINEER IF SUPPLEMENTAL INFORMATION IS REQUIRED ON ANY LAND DEVELOPMENT PLANS PRIOR TO ISSUANCE OF BIDDING AND CONSTRUCTION.
10. THE INFORMATION SHOWN ON THIS PLAN MAY HAVE ALSO BEEN RELEASED IN A DIGITAL DRAWING FORMAT. ONCE LIVIC CIVIL HAS RELEASED SUCH INFORMATION, WE TAKE NO RESPONSIBILITY OF ANY CHANGES THAT MAY OCCUR. THE ORIGINAL SEALED PLANS SHOULD BE REFERENCED TO ANY REPRODUCED MATERIAL THAT MAY BE VIEWED. ALSO ANY DIGITAL FILES OR DATA CONTAINED WITHIN, BEING USED WILL COME AT THE RISK OF THE USER.
11. THE APPLICANT SHALL COMPLY WITH ALL TOWNSHIP REGULATIONS IN EFFECT AT THE TIME OF THE FILING OF THE PLAN.
12. THE APPLICANT SHALL BE RESPONSIBLE FOR THE COST AND INSTALLATION OF ALL STREET AND TRAFFIC CONTROL SIGNS REQUIRED FOR THE PROJECT, AS DEEMED NECESSARY BY MIDDLESEX TOWNSHIP.
13. ALL EXISTING OFFSITE IMPERVIOUS AND STRUCTURES SHOWN ARE APPROXIMATE NOT SURVEYED.
14. THERE ARE NO KNOWN DEED RESTRICTIONS FOR THE PROPERTY. NO DEED RESTRICTIONS OR COVENANTS ARE KNOWN TO HAVE BEEN OR TO BE CONDITIONS OF THE SALE OF THE PROPERTY.
15. AT THE TIME OF APPLICATION FOR A BUILDING PERMIT FOR ANY APPROVED LOT CREATED BY A SUBDIVISION AND/OR IMPROVED AS A LAND DEVELOPMENT PROJECT, ISSUANCE OF THE PERMIT SHALL BE CONDITIONED UPON COMPLIANCE WITH THE TERMS OF THIS ORDINANCE. A NOTE INDICATING THE SAME SHALL BE PLACED ON ALL PLANS INVOLVED IN THE PLAN APPROVAL PROCESS.
16. ANY FIELD CHANGES TO THE APPROVED SWMP DESIGNS MUST BE ADDRESSED BY THE PROJECT DESIGN ENGINEER AND THEN SUBMITTED TO THE TOWNSHIP ENGINEER FOR REVIEW AND APPROVAL. THE TOWNSHIP ENGINEER SHALL HAVE THE DISCRETION TO DETERMINE IF SAID CHANGES SHALL GO BEFOR



TRACT MAP

SCALE: 1 INCH = 400 FEET



ZONING MAP

ABBREVIATIONS

BOTTOM OF CURB	BC
BOTTOM OF WALL	BW
HIGH POINT	HP
TO BE REMOVED	TBR
TOP OF CURB	TC
TOP OF WALL	TW
TYPICAL	TYP

LEGEND

	EXISTING	PROPOSED
PLAN TEXT	*PLAN TEXT*	PLAN TEXT
BENCHMARK		
BUILDING LINE		
BUILDING SETBACK		
CENTER LINE OF ROAD		
CONCRETE CURB		
CONCRETE SIDEWALK		
CONTOUR LINE-MAJOR	*100*	100
CONTOUR LINE-MINOR		
EASEMENT LINE		
EDGE OF PAVEMENT		
EDGE OF WATER		
FENCE LINE	*X*	X
FIRE HYDRANT	FH	
GRAVEL		
GUIDE RAIL		
PROPERTY LINE		
RIGHT-OF-WAY LINE		
SIGN		
OVERHEAD UTILITIES & POLE	*OH*	OH
UNDERGROUND ELECTRIC	*UE*	UE
GAS MAIN/VALVE	*G*	G
DATA/COMMUNICATION	*0*	0
WATER MAIN/VALVE	*W*	W
SEWER FORCE MAIN	*FM*	FM
SANITARY SEWER	*S*	S
STORM SEWER/INLET		
MANHOLE		
NPDES PERMIT BOUNDARY		NPDES
LIMIT OF DISTURBANCE		LOD
SOIL BOUNDARY		
SOIL DESIGNATOR		WsB

PENNSYLVANIA ONE CALL

1. LIVIC CIVIL HAS REQUESTED LINE AND UTILITY INFORMATION FROM THE PA ONE CALL SYSTEM (POCS)
2. POCS SERIAL NUMBER: 20251830955-000
   DATE: JULY 2, 2025
3. THE FOLLOWING FACILITY OWNERS HAVE INDICATED THROUGH POCS THAT THEY HAVE FACILITIES IN THE PROJECT AREA:

UTILITY: MIDDLESEX TOWNSHIP MUNICIPAL AUTHORITY ADDRESS: 350 N MIDDLESEX RD STE 2 CARLISLE, PA 17013 CONTACT: RORY MORRISON EMAIL: rmorrison@middlesextwp.com PHONE: 717-243-0674	UTILITY: STAKECENTER ADDRESS: 7025 ALBERT PICK ROAD, SUITE 600 GREENSBORO, NC 27409 CONTACT: STAKECENTER DISPATCH EMAIL: mirasol.garza@brightspeed.com PHONE: 801-364-1063
UTILITY: VERIZON PENNSYLVANIA LLC ADDRESS: 1050 VIRGINIA DR FORT WASHINGTON, PA 19034 CONTACT: DIANE REDILLA EMAIL: diane.c.redilla@verizon.com PHONE: 215-591-6210	UTILITY: GSP MANAGEMENT CO ADDRESS: 2846 MAIN STREET, SUITE 12A MORGANTOWN, PA 19543 CONTACT: DAWN CATTEAU EMAIL: meadowssewer@gmail.com PHONE: 484-202-8239
UTILITY: MIDDLESEX TOWNSHIP CUMBERLAND COUNTY ADDRESS: 350 N MIDDLESEX RD, SUITE 1 CARLISLE, PA 17013 CONTACT: ZACHARY ZOOK EMAIL: zzook@middlesextwp.com PHONE: 717-249-4409	UTILITY: PPL ELECTRIC UTILITIES CORPORATION ADDRESS: 437 BLUE CHURCH RD PAXINOS, PA 17860 CONTACT: DOUG HAUPT EMAIL: dlhaupt@pplweb.com PHONE: 570-490-5684
UTILITY: COMCAST CABLE COMMUNICATIONS INC ADDRESS: C/O USIC LOCATING SERVICES 13085 HAMILTON CROSSING BLVD STE 200 CONTACT: CARMEL, IN 46032 EMAIL: USIC OFFICE PERSONNEL PHONE: 800-811-7981	UTILITY: UGI UTILITIES INC ADDRESS: 1301 AIP DR. MIDDLETOWN, PA 17057-5987 CONTACT: GEOFFREY FERGUSON EMAIL: GFERGUSON@UGI.COM PHONE: 610-807-3118

4. BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA CALL 1-800-242-1776. PA ACT 287 OF 1974, AS AMENDED, REQUIRES THREE (3) WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL OR BLAST.

PROJECT NOTES

1. APPLICANT/RESPONSIBLE PARTY:
   CARLISLE DEVELOPMENT PARTNERS, LLC
   ATTN: PETRI OTTAVAINEN
   1660 INTERNATIONAL DRIVE, SUITE 500
   McLEAN, VA 22102
   PHONE: 804.351.7432
2. LANDOWNERS:
   CARLISLE DEVELOPMENT PARTNERS, LLC
   ATTN: PATRICK PLINE
   1660 INTERNATIONAL DRIVE, SUITE 500
   McLEAN, VA 22102
   PHONE: 703.234.3056
3. PROJECT LOCATION:
   COUNTRY CLUB ROAD
   CARLISLE, PA 17015
   MIDDLESEX TOWNSHIP, CUMBERLAND COUNTY
4. PROJECT NARRATIVE:
   PAX-1 IS A 693-ACRE DATA CENTER DEVELOPMENT IN MIDDLESEX TOWNSHIP, CUMBERLAND COUNTY, PA, ALONG COUNTRY CLUB RD, BORDERED BY THE CONODOGUINET CREEK AND INTERSTATE 81. THE PROJECT IS COMPRISED OF THREE DATA CENTER CAMPUSES, A PPL SUBSTATION, 3 CUSTOMER SUBSTATIONS, AND A NEW PROPOSED PRIVATE STREET WITH PUBLIC ACCESS ROAD "PA DATA DRIVE" IS PROPOSED. PHASE 2 SPECIFICALLY CONSISTS OF A DATA CENTER CAMPUS CONTAINING APPROXIMATELY 6 BUILDING, PRIVATE ACCESS DRIVE, AND A SECURITY BUILDING.
5. SOURCE OF TITLE:
   * CARLISLE DEVELOPMENT PARTNERS, LLC
   LOT #2 OF PAX-1 FINAL MAJOR SUBDIVISION PLAN
   INST # 202514238 INSTR. # 202514239
   PARCEL NO. 21-06-0015-013, 21-06-0015-014, 21-06-0015-001, 21-06-0015-015
6. WETLANDS HAVE BEEN IDENTIFIED BY A FIELD STUDY AND REPORT DONE BY AMBROOK CONSULTING ON MARCH 29, 2024.
7. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP (42041C0088F, 42041C0069F, 42041C0232F, 42041C0251F), THE PROJECT SITE IS LOCATED WITHIN THE 100-YR FLOODPLAIN. ALL PROPOSED WORK WILL BE CONDUCTED OUT OF THE 100 YEAR FLOODPLAIN.
8. THE PROJECT WILL BE SERVED BY PUBLIC SANITARY SEWER AND PUBLIC WATER.

SITE DATA

TOTAL ACREAGE OF PARENT TRACT: 141.13 AC
NUMBER OF EXISTING AND PROPOSED LOTS: 1
WATER SUPPLY:
- ❖ EXISTING: PUBLIC
- ❖ PROPOSED: PUBLIC WATER SUPPLY REQUIRED AS PART OF THIS PLAN

SEWAGE DISPOSAL:
- ❖ EXISTING: PUBLIC
- ❖ PROPOSED: PUBLIC SEWER REQUIRED AS PART OF THIS PLAN

SOURCE OF TITLE:
- ❖ GRANTOR: CLUB ROAD PROPERTIES, LP
- ❖ GRANTEE: CARLISLE DEVELOPMENT PARTNERS, LLC
- ❖ INST # _____
- ❖ PARCEL NO. _____
- ❖ THIS PLAN IS PREPARED IN CONJUNCTION WITH PENNSYLVANIA DIGITAL 1 (PAX-1) MAJOR SUBDIVISION PLAN, WHICH SHALL BE APPROVED PRIOR TO APPROVAL OF THIS PLAN
- ❖ PROPERTY ADDRESS _____

ENTER SUBDIVISION LOT 2 INSTRUMENT, PARCEL NUMBER, & PROPERTY ADDRESS UPON SUBDIVISION RECORDING.

ZONING REGULATIONS

THE FOLLOWING INFORMATION HAS BEEN OBTAINED FROM THE MIDDLESEX TOWNSHIP ZONING ORDINANCE, ENACTED SEPTEMBER 3, 2025 AND EFFECTIVE SEPTEMBER 3, 2025.

SITE LOCATION: COUNTRY CLUB ROAD | CARLISLE, PA 17015

ZONING DISTRICT
- ❖ MIXED USE (MU-1) | DATA CENTER OVERLAY (DCO)
- ❖ FOR THIS PLAN AND PROJECT, THE DATA CENTER OVERLAY DISTRICT SHALL GOVERN

PROPOSED USE: DATA CENTER

	REQUIRED	PROPOSED
LOT REQUIREMENTS		
❖ MIN LOT SIZE	25 AC	141.13 AC
❖ MIN LOT WIDTH	200 FT	± 1,652 FT
❖ MAX LOT COVERAGE	70% (99.09 AC)	11.6% (16.42 AC)
❖ MAX IMPERVIOUS COVERAGE	70% (99.09 AC)	37.0% (52.16 AC)
❖ MAX BUILDING HEIGHT	75 FT	66 FT
YARD SETBACKS		
❖ FRONT*	35 FT	485 FT
❖ SIDE* (EACH)	35 FT	280 FT
❖ REAR*	75 FT	660 FT
❖ * SETBACKS AND BUILDING MASSING ADJACENT TO RESIDENTIAL -	100 FT	1,062 FT
PARKING SETBACKS		
❖ SETBACKS AND BUILDING MASSING ADJACENT TO RESIDENTIAL -	50 FT	970 FT
LINEAR FEET OF NEW STREET	N/A	0 FT
PARKING REQUIREMENTS		
❖ REQUIRED PARKING SPACES PER PARKING ANALYSIS	215	289
❖ ADA SPACES	7	11
❖ LOADING SPACE = 1 PER 100,000 SF	8	10

PRINCIPAL FACADE STANDARDS
- ❖ SHALL APPLY TO ALL BUILDING FACADES THAT ARE ORIENTED AND FACE TOWARD AN ABUTTING:
  1. PUBLIC STREET
  2. LOT WITH RESIDENTIAL USE WITHIN 1,000 FEET OF THE BUILDING FACADE
  3. LOT IN A RESIDENTIAL DISTRICT WITHIN 1,000 FEET OF THE BUILDING FACADE

REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT
1	11/26/2025	INITIAL SUBMISSION	RJT

ISSUE / REVISIONS

LIVIC civil
1015 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987.1993
www.liviccivil.com

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

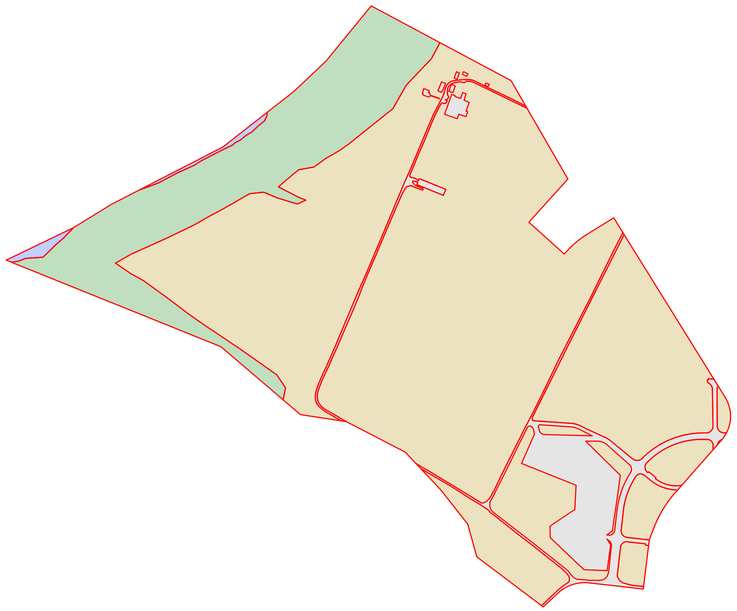
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

GENERAL INFORMATION

SHEET NO.

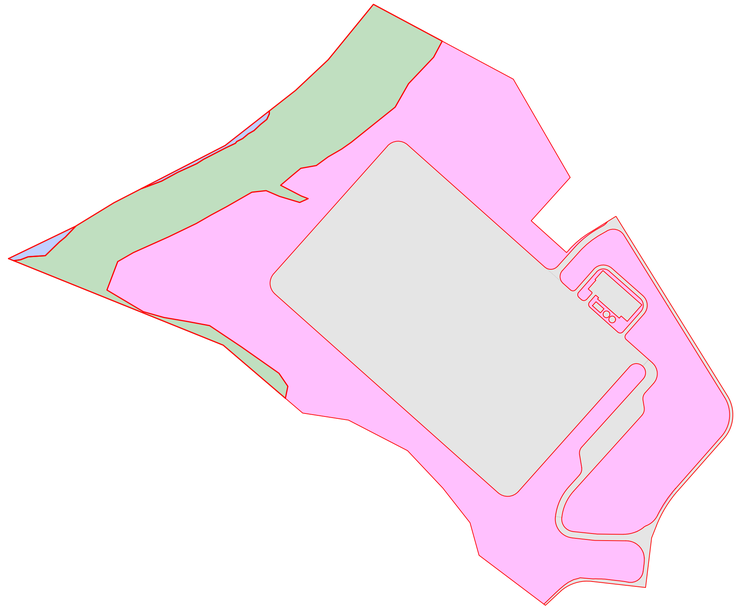
C02 003



TOTAL ACREAGE: 141.13 ACRES
IMPERVIOUS: 9.57 ACRES 6.78%
WOODS: 23.38 ACRES 16.57%
MEADOW: 107.46 ACRES 76.15%
CONODOGUINET CREEK: .72 ACRES 0.50%

EXISTING CONDITIONS GROUND COVER MAP

SCALE: 1 INCH = 400 FEET



TOTAL ACREAGE: 141.13 ACRES
IMPERVIOUS: 52.68 ACRES 37.33%
WOODS: 21.77 ACRES 15.43%
OPEN SPACE: 65.96 ACRES 46.74%
CONODOGUINET CREEK: .72 ACRES 0.50%

PROPOSED CONDITIONS GROUND COVER MAP

SCALE: 1 INCH = 400 FEET

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
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1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY:	RJB
CHECKED BY:	JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

GENERAL INFORMATION

SHEET NO.

C02 004

NOTES:

- REFER TO PAX-1 MASTER PLAN FOR ADDITIONAL INFORMATION SURROUNDING PHASE 2
- ALL EXISTING OFFSITE IMPERVIOUS AND STRUCTURES SHOWN ARE APPROXIMATE NOT SURVEYED.

LEGEND

- PHASE 1A
- PHASE 1B
- PHASE 1C
- PHASE 2
- PHASE 3

1,000' BUILDING FACADE SETBACK

1,000' BUILDING FACADE SETBACK

1,000' BUILDING FACADE SETBACK

1,000' BUILDING FACADE SETBACK

1,000' BUILDING FACADE SETBACK

CONODOGUINET CREEK

N MIDDLESEX ROAD

CLUB RD

COUNTRY

OAK LN DR

LOCUST WAY

EVERGREEN LN

INTERSTATE 81

COUNTRY CLUB RD

BERNHEISEL BRIDGE ROAD

GREEN HILL RD

N LOCUST POINT ROAD

APPALACHIAN TRAIL

N/F LESTER S MILLER JR, REVOCABLE TRUST AGREEMENT PID: 21-06-0015-011

N/F POTTEIGER, KENNETH L & DARLENE E POTTEIGER PID: 21-06-0015-026

N/F LESTER S MILLER JR., REVOCABLE TRUST AGREEMENT PID: 21-06-0015-024

N/F SHEAFFER, DALE L & DIANE K PID: 21-06-0011-030

N/F SHEAFFER, DALE L & DIANE K PID: 21-06-0011-030

N/F 121 WILL FARM LLC PID: 21-07-0455-006

HORIZONTAL SCALE: 1 INCH = 500 FEET

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1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

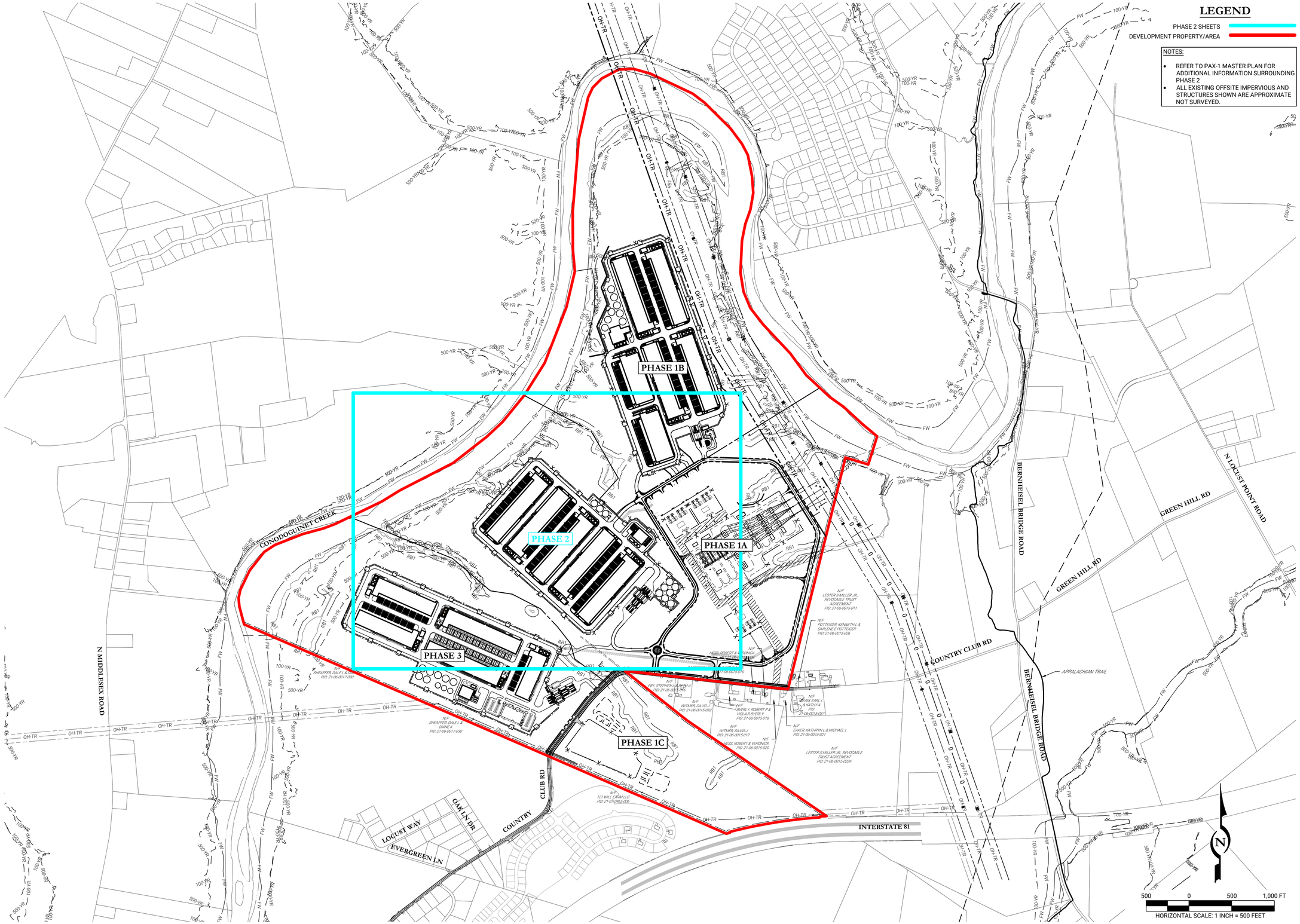
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

PHASING PLAN

SHEET NO.

C02 005



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1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

MASTER PLAN KEYMAP

SHEET NO.

C02 006

LEGEND

PHASE 2 SHEETS

NOTE:

- ALL EXISTING OFFSITE IMPERVIOUS AND STRUCTURES SHOWN ARE APPROXIMATE NOT SURVEYED.

CONODOGUINET CREEK (WWF, MF)

PA DATA DR

COUNTRY CLUB ROAD

1,000' BUILDING FACADE SETBACK

DATA CENTER BUILDING C FFE: 437.75 156,433 SF

DATA CENTER BUILDING D FFE: 437.75 156,433 SF

DATA CENTER BUILDING B FFE: 437.75 156,433 SF

DATA CENTER BUILDING A FFE: 437.75 156,433 SF

SHEET C02-1

SHEET C02-2

SHEET C02-3

SHEET C02-4

SHEET C02-5

SHEET C02-6

150 0 150 300 FT

HORIZONTAL SCALE: 1 INCH = 150 FEET

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

PHASE 2 KEYMAP

SHEET NO.

C02 007

NOTES:

- WETLANDS SHOWN ARE DERIVED FROM WETLAND DELINEATION DONE BY AMBROOK CONSULTING.
- FLOODPLAINS SHOWN ARE DERIVED FROM FEMA MAP #42041C0088F, LAST REVISED 08/07/2023.
- SUBJECT PARCEL PROPERTY LINES AND EASEMENTS ARE SHOWN FROM ALTA SURVEY DATED 07/03/2025 WITH BOUNDARY AND TOPO SURVEY COMPLETED BETWEEN DECEMBER 2023, APRIL 2024, AND JULY 2025.
- ADJACENT PROPERTIES AND APPROXIMATE EASEMENTS DERIVED FROM CUMBERLAND COUNTY GIS AND BEST AVAILABLE INFORMATION.

THE SOILS ON SITE ARE COMPOSED OF THE FOLLOWING :

- ATKINS SILT LOAM (Aw) - HSG: B/D
- BERKS CHANNERY SILT LOAM (BeB), 3 TO 8 PERCENT SLOPES - HSG: B
- BERKS CHANNERY SILT LOAM (BeC), 8 TO 15 PERCENT SLOPES - HSG: B
- BLAIRTON SILT LOAM (BpB), 3 TO 8 PERCENT SLOPES - HSG: C/D
- BRINKERTON SILT LOAM (BrA), 0 TO 3 PERCENT SLOPES - HSG: HSG: D
- MIDDLEBURY SOILS (Mf) - HSG: B/D
- MONONGAHELA SILT LOAM (MnB), 3 TO 8 PERCENT SLOPES - HSG: C/D

STEEP SLOPES TABLE

Number	Minimum Slope	Maximum Slope	Color
1	15.00%	25.00%	
2	25.00%	100.00%	

CONODOGUINET CREEK (WWF, MF)

LEGEND

- DEMO AREA
- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- EXISTING GRAVEL
- EXISTING PAVEMENT
- FENCE LINE
- EXISTING PROPERTY LINE
- EXISTING RIGHT-OF-WAY LINE
- APPROXIMATE TOWNSHIP LINE
- EXISTING OVERHEAD UTILITIES & POLE
- EXISTING OVERHEAD TRANSMISSION LINE
- EXISTING DATA/COMMUNICATION LINE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING GAS LINE
- EXISTING STORMWATER LINE
- 50' TOWNSHIP RIPARIAN BUFFER
- 100 YEAR FEMA FLOODPLAIN
- 500 YEAR FEMA FLOODPLAIN
- CONODOGUINET CREEK (GIS)
- STREAMS
- ACOE JURISDICTIONAL WETLANDS
- EXISTING 2' MINOR CONTOURS
- EXISTING 5' MAJOR CONTOURS
- SOIL BOUNDARY LINE
- EXISTING TREE LINE
- EXISTING BUILDING

SYMBOLS

- TRANSMISSION TOWER
- SANITARY SEWER CLEANOUT
- EXISTING GAS VALVE
- EXISTING MANHOLE
- EXISTING WATER VALVE
- EXISTING HYDRANT
- SOIL TYPE (BrB)

NOTES:

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- PA RARE, ENDANGERED AND THREATENED-SPECIES HAVE BEEN IDENTIFIED AND LOCATED IN THE REGULATED FLOODPLAIN WITHIN THE PROJECT BOUNDARY.

150 0 150 300 FT

HORIZONTAL SCALE: 1 INCH = 150 FEET

REV	DATE	COMMENTS	BY
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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

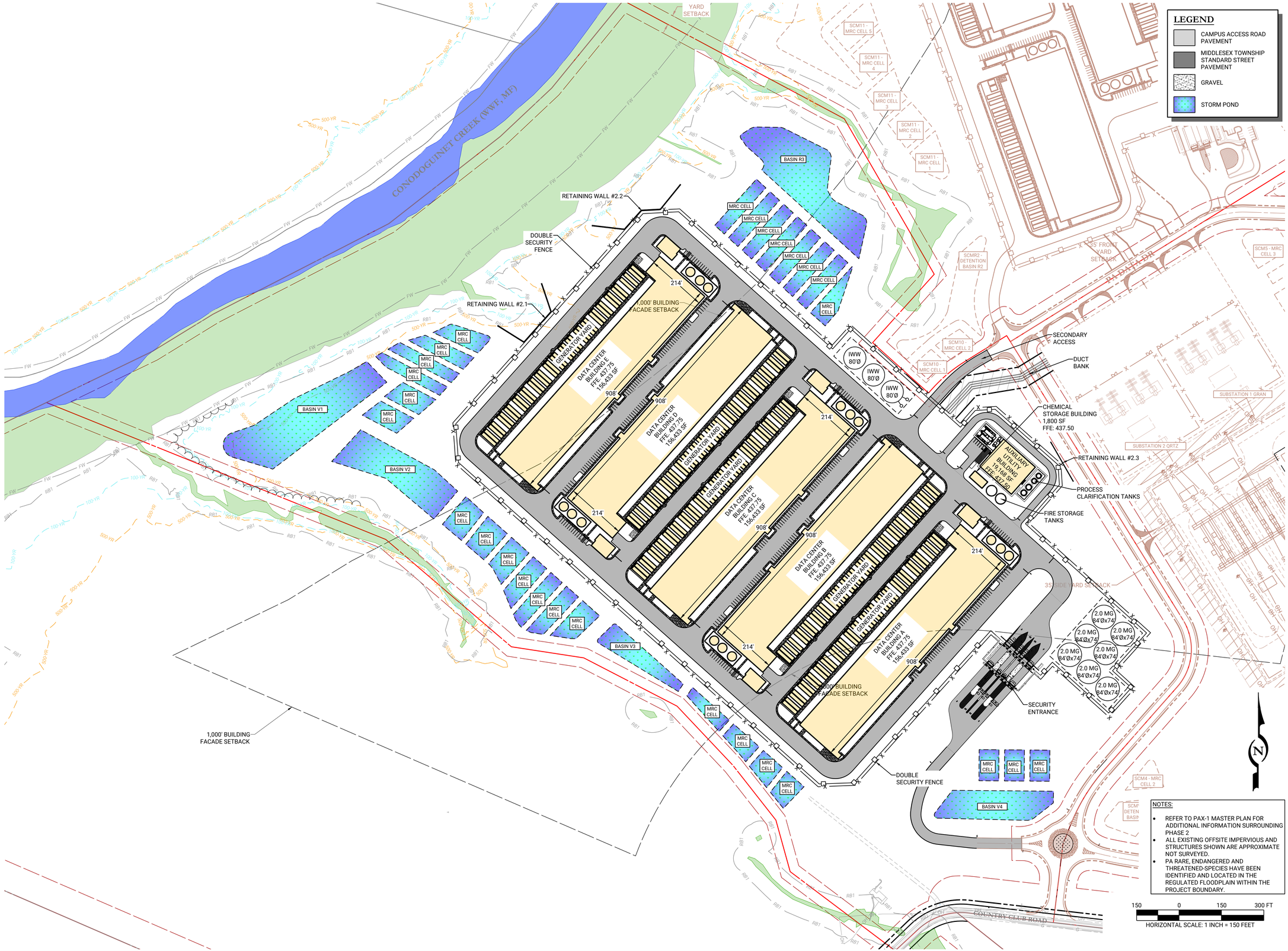
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

PHASE 2 OVERALL EXISTING CONDITIONS

SHEET NO.

C02 008



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PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

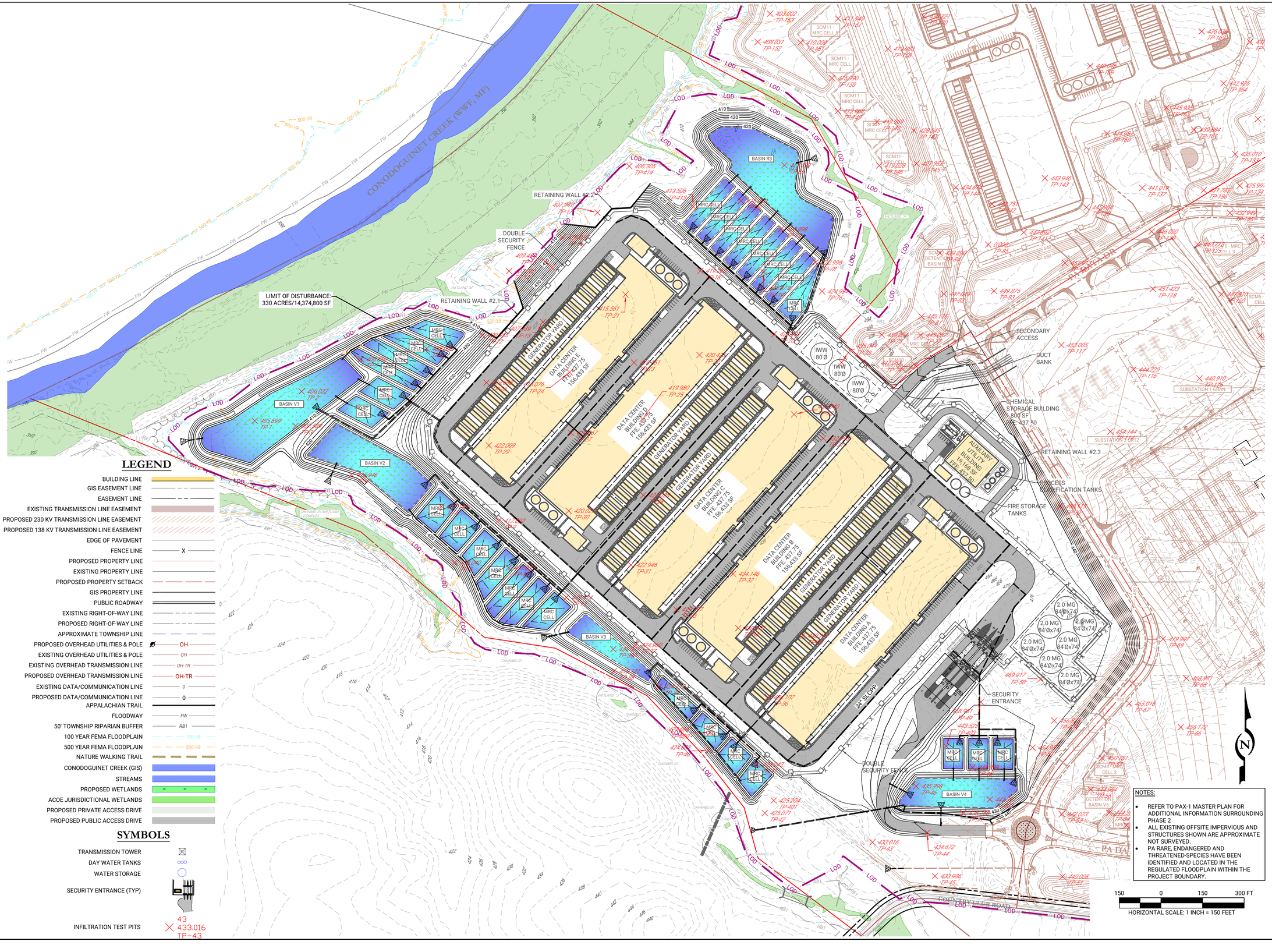
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

PHASE 2 OVERALL SITE PLAN

SHEET NO.

C02 009



LEGEND

- BUILDING LINE
- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
- PROPOSED 230 KV TRANSMISSION LINE EASEMENT
- PROPOSED 138 KV TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- FENCE LINE
- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- GIS PROPERTY LINE
- PUBLIC ROADWAY
- EXISTING RIGHT-OF-WAY LINE
- PROPOSED RIGHT-OF-WAY LINE
- APPROXIMATE TOWNSHIP LINE
- PROPOSED OVERHEAD UTILITIES & POLE
- EXISTING OVERHEAD UTILITIES & POLE
- EXISTING OVERHEAD TRANSMISSION LINE
- PROPOSED OVERHEAD TRANSMISSION LINE
- EXISTING DATA/COMMUNICATION LINE
- PROPOSED DATA/COMMUNICATION LINE
- APPALACHIAN TRAIL
- FLOODWAY
- 50' TOWNSHIP RIPARIAN BUFFER
- 100 YEAR FEMA FLOODPLAIN
- 500 YEAR FEMA FLOODPLAIN
- NATURE WALKING TRAIL
- CONODOGUINET CREEK (GIS)
- STREAMS
- PROPOSED WETLANDS
- ACOE JURISDICTIONAL WETLANDS
- PROPOSED PRIVATE ACCESS DRIVE
- PROPOSED PUBLIC ACCESS DRIVE

SYMBOLS

- TRANSMISSION TOWER
- DAY WATER TANKS
- WATER STORAGE
- SECURITY ENTRANCE (TYP)
- INFILTRATION TEST PITS (e.g. 43 / 433.016 / TP-43)

NOTES:

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150 0 150 300 FT
HORIZONTAL SCALE: 1 INCH = 150 FEET

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PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

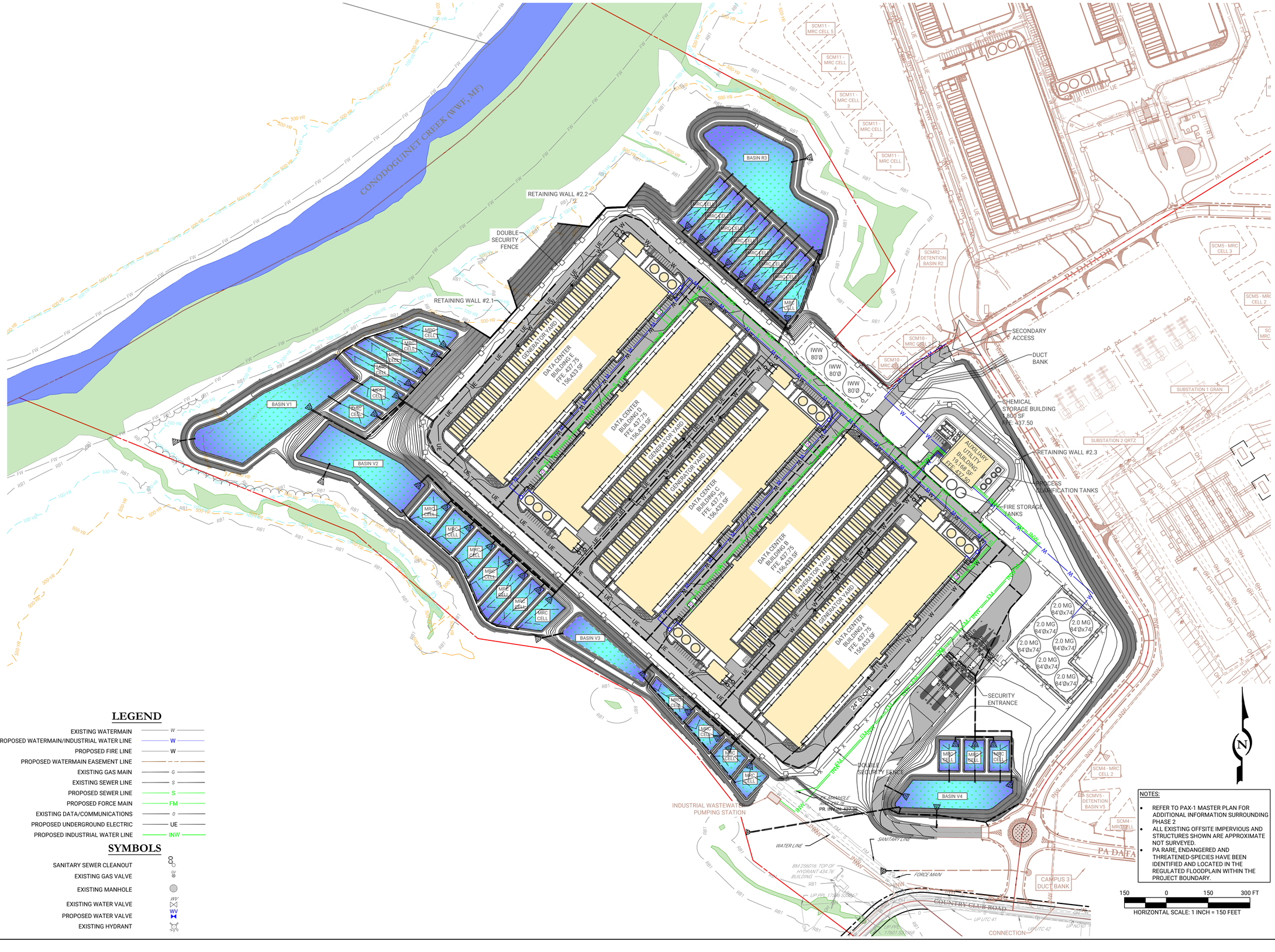
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

PHASE 2 OVERALL GRADING & STORMWATER

SHEET NO.

C02 010



LEGEND

EXISTING WATERMAIN	W
PROPOSED WATERMAIN/INDUSTRIAL WATER LINE	W
PROPOSED FIRE LINE	W
PROPOSED WATERMAIN EASEMENT LINE	
EXISTING GAS MAIN	G
EXISTING SEWER LINE	S
PROPOSED SEWER LINE	S
PROPOSED FORCE MAIN	FM
EXISTING DATA/COMMUNICATIONS	D
PROPOSED UNDERGROUND ELECTRIC	UE
PROPOSED INDUSTRIAL WATER LINE	INW

SYMBOLS

- SANITARY SEWER CLEANOUT
- EXISTING GAS VALVE
- EXISTING MANHOLE
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING HYDRANT

NOTES:

- REFER TO PAX-1 MASTER PLAN FOR ADDITIONAL INFORMATION SURROUNDING PHASE 2
- ALL EXISTING OFFSITE IMPERVIOUS AND STRUCTURES SHOWN ARE APPROXIMATE NOT SURVEYED.
- PA RARE, ENDANGERED AND THREATENED-SPECIES HAVE BEEN IDENTIFIED AND LOCATED IN THE REGULATED FLOODPLAIN WITHIN THE PROJECT BOUNDARY.

150 0 150 300 FT

HORIZONTAL SCALE: 1 INCH = 150 FEET

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT	JHR
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT	JHR
1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

ISSUE / REVISIONS

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1015 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987.1993
www.liviccivil.com

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

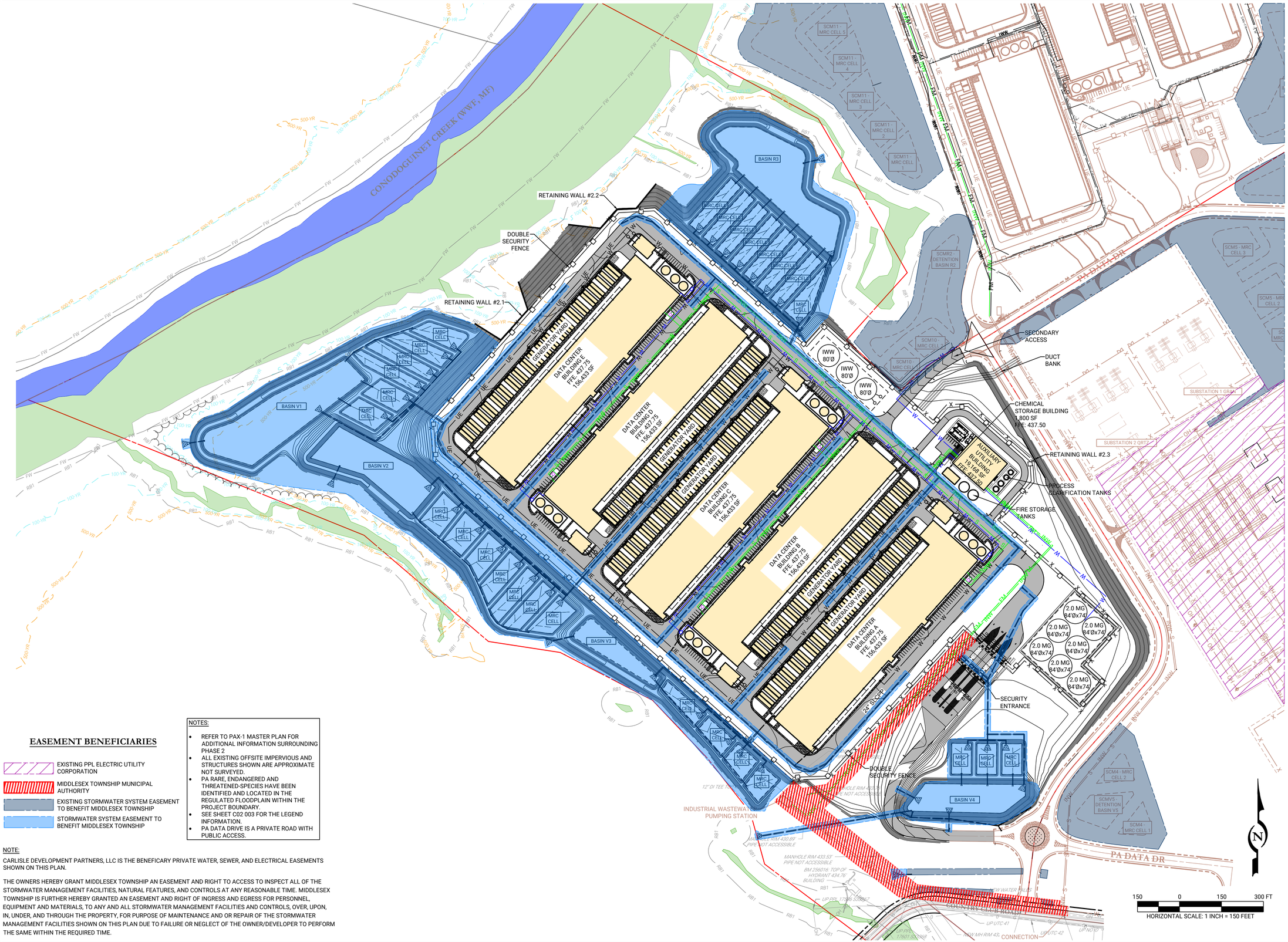
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

PHASE 2 OVERALL UTILITY PLAN

SHEET NO.

C02 011



EASEMENT BENEFICIARIES

- EXISTING PPL ELECTRIC UTILITY CORPORATION
- MIDDLESEX TOWNSHIP MUNICIPAL AUTHORITY
- EXISTING STORMWATER SYSTEM EASEMENT TO BENEFIT MIDDLESEX TOWNSHIP
- STORMWATER SYSTEM EASEMENT TO BENEFIT MIDDLESEX TOWNSHIP

NOTES:

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- SEE SHEET C02 003 FOR THE LEGEND INFORMATION.
- PA DATA DRIVE IS A PRIVATE ROAD WITH PUBLIC ACCESS.

NOTE:

CARLISLE DEVELOPMENT PARTNERS, LLC IS THE BENEFICARY PRIVATE WATER, SEWER, AND ELECTRICAL EASEMENTS SHOWN ON THIS PLAN.

THE OWNERS HEREBY GRANT MIDDLESEX TOWNSHIP AN EASEMENT AND RIGHT TO ACCESS TO INSPECT ALL OF THE STORMWATER MANAGEMENT FACILITIES, NATURAL FEATURES, AND CONTROLS AT ANY REASONABLE TIME. MIDDLESEX TOWNSHIP IS FURTHER HEREBY GRANTED AN EASEMENT AND RIGHT OF INGRESS AND EGRESS FOR PERSONNEL, EQUIPMENT AND MATERIALS, TO ANY AND ALL STORMWATER MANAGEMENT FACILITIES AND CONTROLS, OVER, UPON, IN, UNDER, AND THROUGH THE PROPERTY, FOR PURPOSE OF MAINTENANCE AND OR REPAIR OF THE STORMWATER MANAGEMENT FACILITIES SHOWN ON THIS PLAN DUE TO FAILURE OR NEGLECT OF THE OWNER/DEVELOPER TO PERFORM THE SAME WITHIN THE REQUIRED TIME.

REV	DATE	COMMENTS	BY	CHKD
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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

PHASE 2 OVERALL EASEMENT PLAN

SHEET NO.

C02 012

NOTES:

- WETLANDS SHOWN ARE DERIVED FROM WETLAND DELINEATION DONE BY AMBROOK CONSULTING.
- FLOODPLAINS SHOWN ARE DERIVED FROM FEMA MAP #42041C0088F, LAST REVISED 08/07/2023.
- SUBJECT PARCEL PROPERTY LINES AND EASEMENTS ARE SHOWN FROM ALTA SURVEY DATED 07/03/2025 WITH BOUNDARY AND TOPO SURVEY COMPLETED BETWEEN DECEMBER 2023, APRIL 2024, AND JULY 2025.
- ADJACENT PROPERTIES AND APPROXIMATE EASEMENTS DERIVED FROM CUMBERLAND COUNTY GIS AND BEST AVAILABLE INFORMATION.

THE SOILS ON SITE ARE COMPOSED OF THE FOLLOWING :

- BERKS CHANNERY SILT LOAM (BeB), 3 TO 8 PERCENT SLOPES
- BERKS CHANNERY SILT LOAM (BeC), 8 TO 15 PERCENT SLOPES
- BERKS CHANNERY SILT LOAM (BeD), 15 TO 25 PERCENT SLOPES
- BLAIRTON SILT LOAM (BpB), 3 TO 8 PERCENT SLOPES
- BRINKERTON SILT LOAM (BrA), 0 TO 3 PERCENT SLOPES
- EDOM SILTY CLAY LOAM (EdC), 8 TO 15 PERCENT SLOPES
- WEIKERT VERY CHANNERY SILT LOAM (WeD), 15 TO 25 PERCENT SLOPES

STEEP SLOPES TABLE

Number	Minimum Slope	Maximum Slope	Color
1	15.00%	25.00%	
2	25.00%	100.00%	

LEGEND

- DEMO AREA
- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- EXISTING PAVEMENT
- FENCE LINE
- EXISTING PROPERTY LINE
- GIS PROPERTY LINE
- PUBLIC ROADWAY
- EXISTING RIGHT-OF-WAY LINE
- APPROXIMATE TOWNSHIP LINE
- EXISTING OVERHEAD UTILITIES & POLE
- EXISTING OVERHEAD TRANSMISSION LINE
- EXISTING DATA/COMMUNICATION LINE
- APPALACHIAN TRAIL
- FLOODWAY
- 50' TOWNSHIP RIPARIAN BUFFER
- 100 YEAR FEMA FLOODPLAIN
- 500 YEAR FEMA FLOODPLAIN
- CONODOGUINET CREEK (GIS)
- STREAMS
- ACOE JURISDICTIONAL WETLANDS
- EXISTING 2' MINOR CONTOURS
- EXISTING 5' MAJOR CONTOURS

SYMBOLS

- TRANSMISSION TOWER
- SANITARY SEWER CLEANOUT
- EXISTING GAS VALVE
- EXISTING MANHOLE
- EXISTING WATER VALVE
- EXISTING HYDRANT
- EXISTING WELL

ALL EXISTING FEATURES INSTALLED PRIOR FOR PPL LAYDOWN PAD WITHIN THIS SHADED AREA TO BE REMOVED.

PROTECT PUMP HOUSE, FORCE MAIN, AND SEWER LINES

NOTES:

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150 0 150 300 FT

HORIZONTAL SCALE: 1 INCH = 150 FEET

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PROJECT No: 1258-01
DATE: NOVEMBER 26, 2025
SCALE: AS SHOWN
DRAWN BY: RJB CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

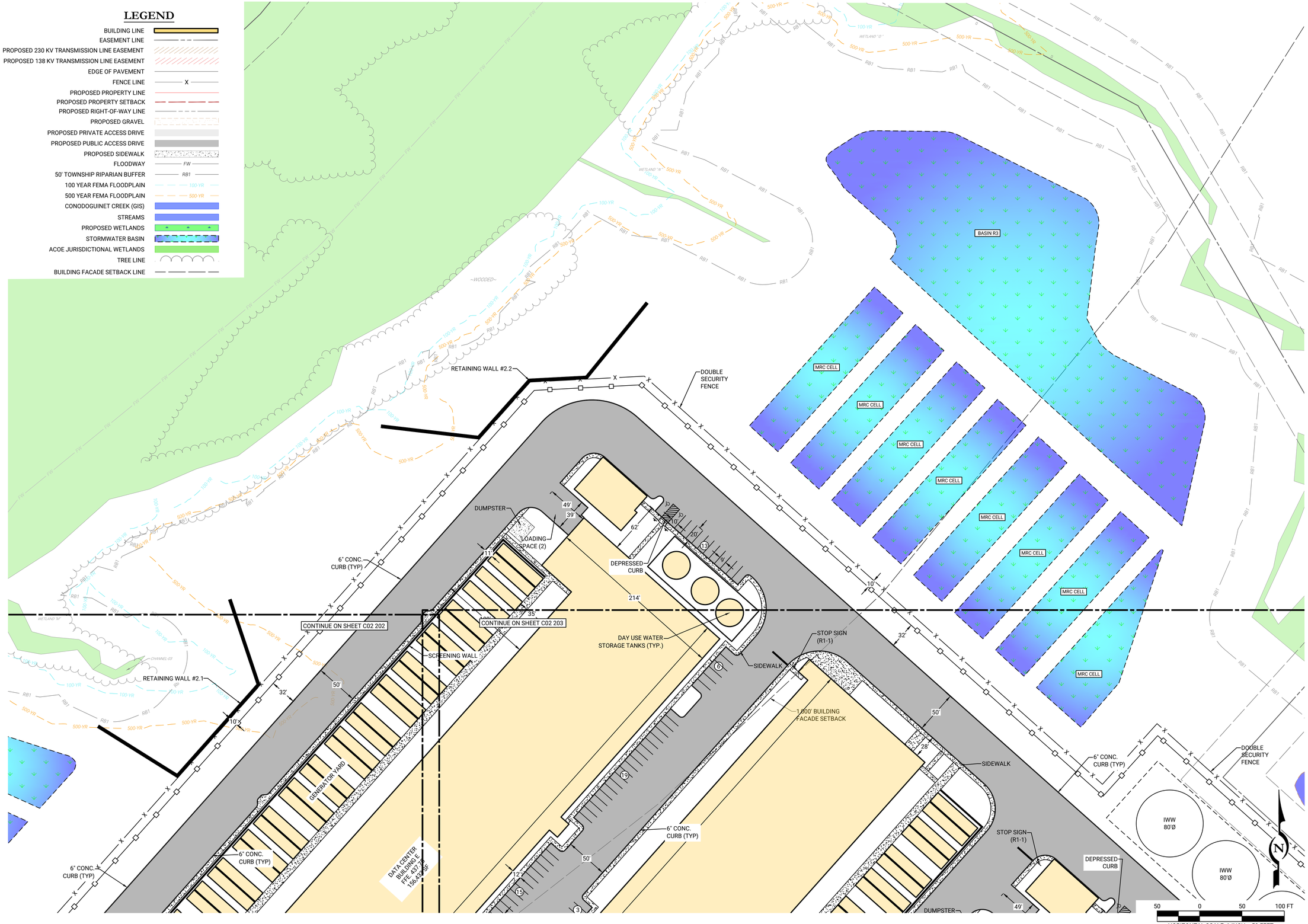
EXISTING CONDITIONS & DEMO PLAN

SHEET NO.

C02 101

LEGEND

- BUILDING LINE
- EASEMENT LINE
- PROPOSED 230 KV TRANSMISSION LINE EASEMENT
- PROPOSED 138 KV TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- FENCE LINE
- PROPOSED PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- PROPOSED RIGHT-OF-WAY LINE
- PROPOSED GRAVEL
- PROPOSED PRIVATE ACCESS DRIVE
- PROPOSED PUBLIC ACCESS DRIVE
- PROPOSED SIDEWALK
- FLOODWAY
- 50' TOWNSHIP RIPARIAN BUFFER
- 100 YEAR FEMA FLOODPLAIN
- 500 YEAR FEMA FLOODPLAIN
- CONODOGUINET CREEK (GIS)
- STREAMS
- PROPOSED WETLANDS
- STORMWATER BASIN
- ACOE JURISDICTIONAL WETLANDS
- TREE LINE
- BUILDING FACADE SETBACK LINE



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1	11/26/2025	INITIAL SUBMISSION	RJT

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DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

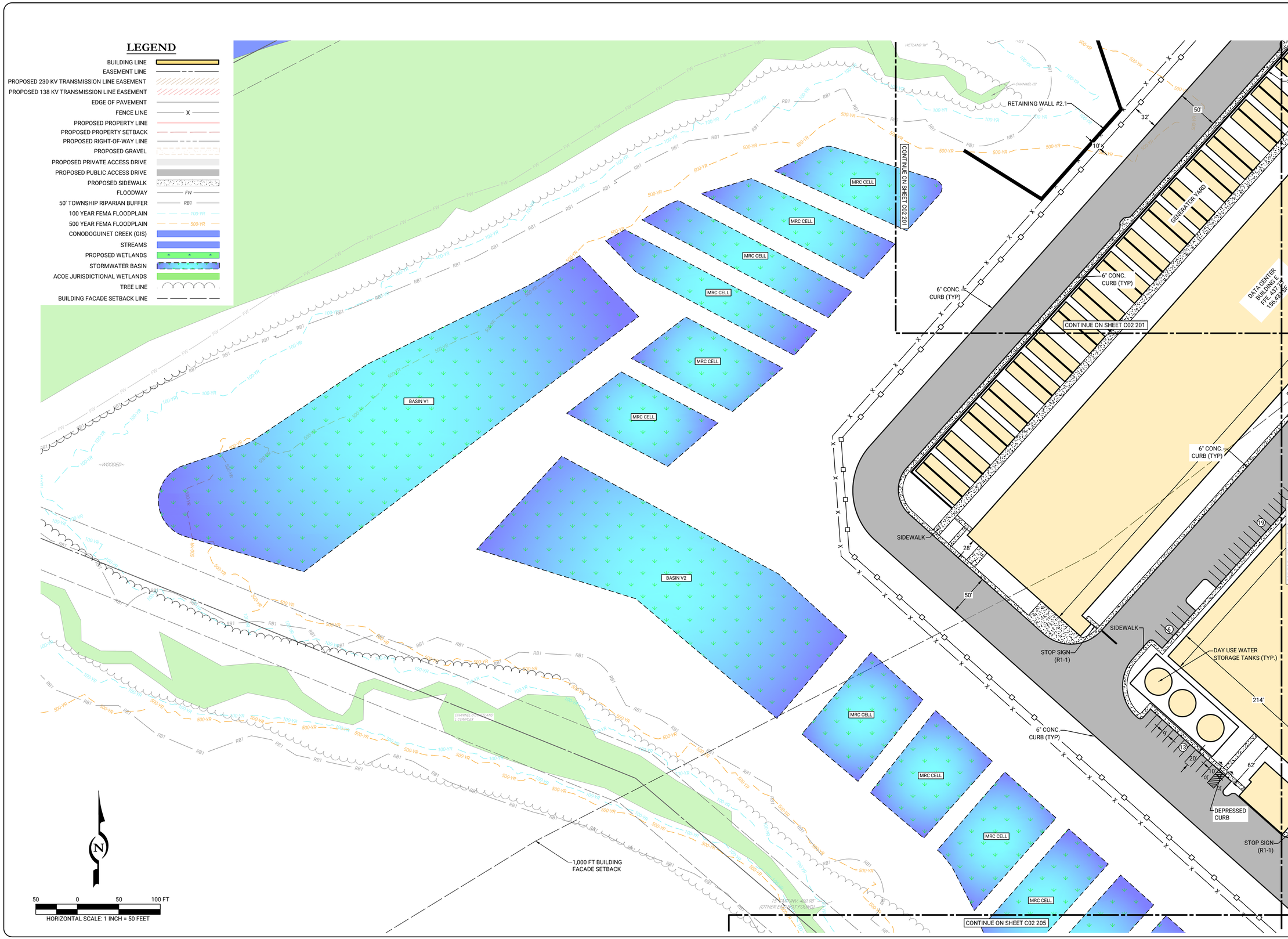
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

SITE LAYOUT PLAN

SHEET NO.

C02 201



REV	DATE	COMMENTS	BY	CHKD
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2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/6/2026	RJT	JHR
1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

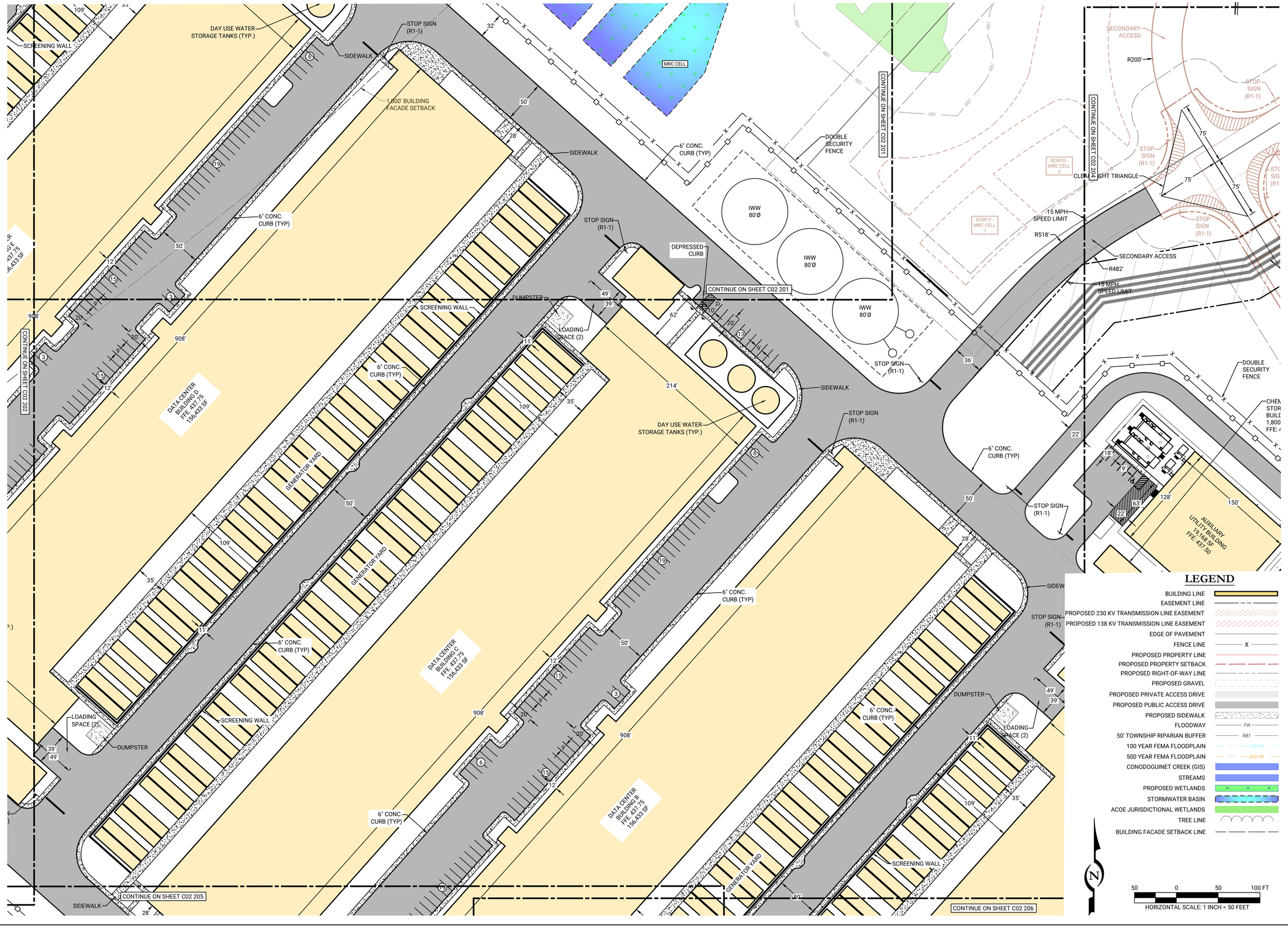
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

SITE LAYOUT PLAN

SHEET NO.

C02 202



LEGEND

- BUILDING LINE
- EASEMENT LINE
- PROPOSED 230 KV TRANSMISSION LINE EASEMENT
- PROPOSED 138 KV TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- FENCE LINE
- PROPOSED PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- PROPOSED RIGHT-OF-WAY LINE
- PROPOSED GRAVEL
- PROPOSED PRIVATE ACCESS DRIVE
- PROPOSED PUBLIC ACCESS DRIVE
- PROPOSED SIDEWALK
- FLOODWAY
- 50' TOWNSHIP RIPARIAN BUFFER
- 100 YEAR FEMA FLOODPLAIN
- 500 YEAR FEMA FLOODPLAIN
- CONODOGUINET CREEK (GIS)
- STREAMS
- PROPOSED WETLANDS
- STORMWATER BASIN
- ACOE JURISDICTIONAL WETLANDS
- TREE LINE
- BUILDING FACADE SETBACK LINE

N

50 0 50 100 FT
HORIZONTAL SCALE: 1 INCH = 50 FEET

REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT
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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

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CLIENT

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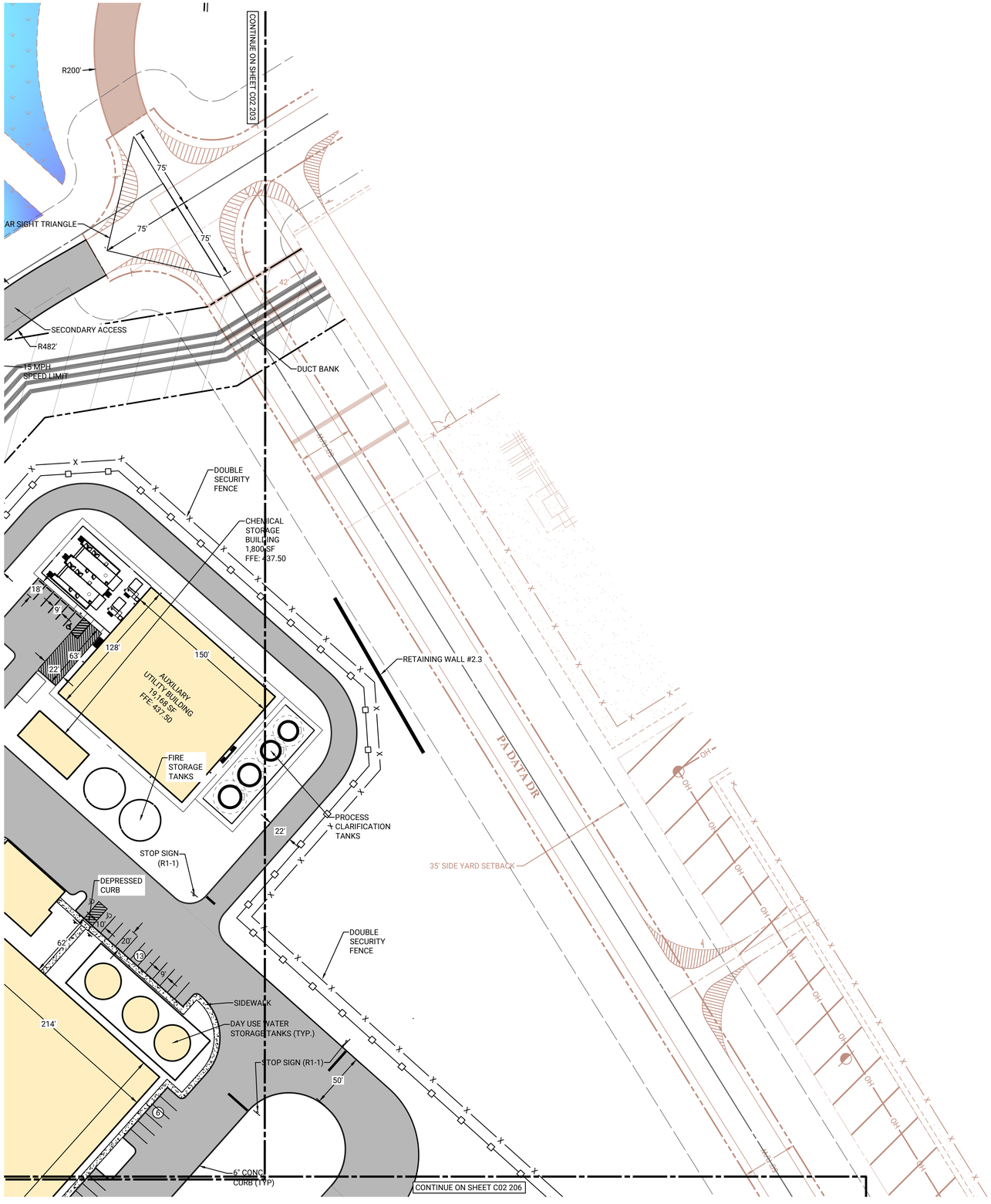
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

SITE LAYOUT PLAN

SHEET NO.

C02 203



LEGEND

- BUILDING LINE
- EASEMENT LINE
- PROPOSED 230 KV TRANSMISSION LINE EASEMENT
- PROPOSED 138 KV TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
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- PROPOSED PROPERTY SETBACK
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- PROPOSED GRAVEL
- PROPOSED PRIVATE ACCESS DRIVE
- PROPOSED PUBLIC ACCESS DRIVE
- PROPOSED SIDEWALK
- FLOODWAY
- 50' TOWNSHIP RIPARIAN BUFFER
- 100 YEAR FEMA FLOODPLAIN
- 500 YEAR FEMA FLOODPLAIN
- CONODOGUINET CREEK (GIS)
- STREAMS
- PROPOSED WETLANDS
- STORMWATER BASIN
- ACOE JURISDICTIONAL WETLANDS
- TREE LINE
- BUILDING FACADE SETBACK LINE

50 0 50 100 FT
HORIZONTAL SCALE: 1 INCH = 50 FEET

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PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

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1660 INTERNATIONAL DRIVE
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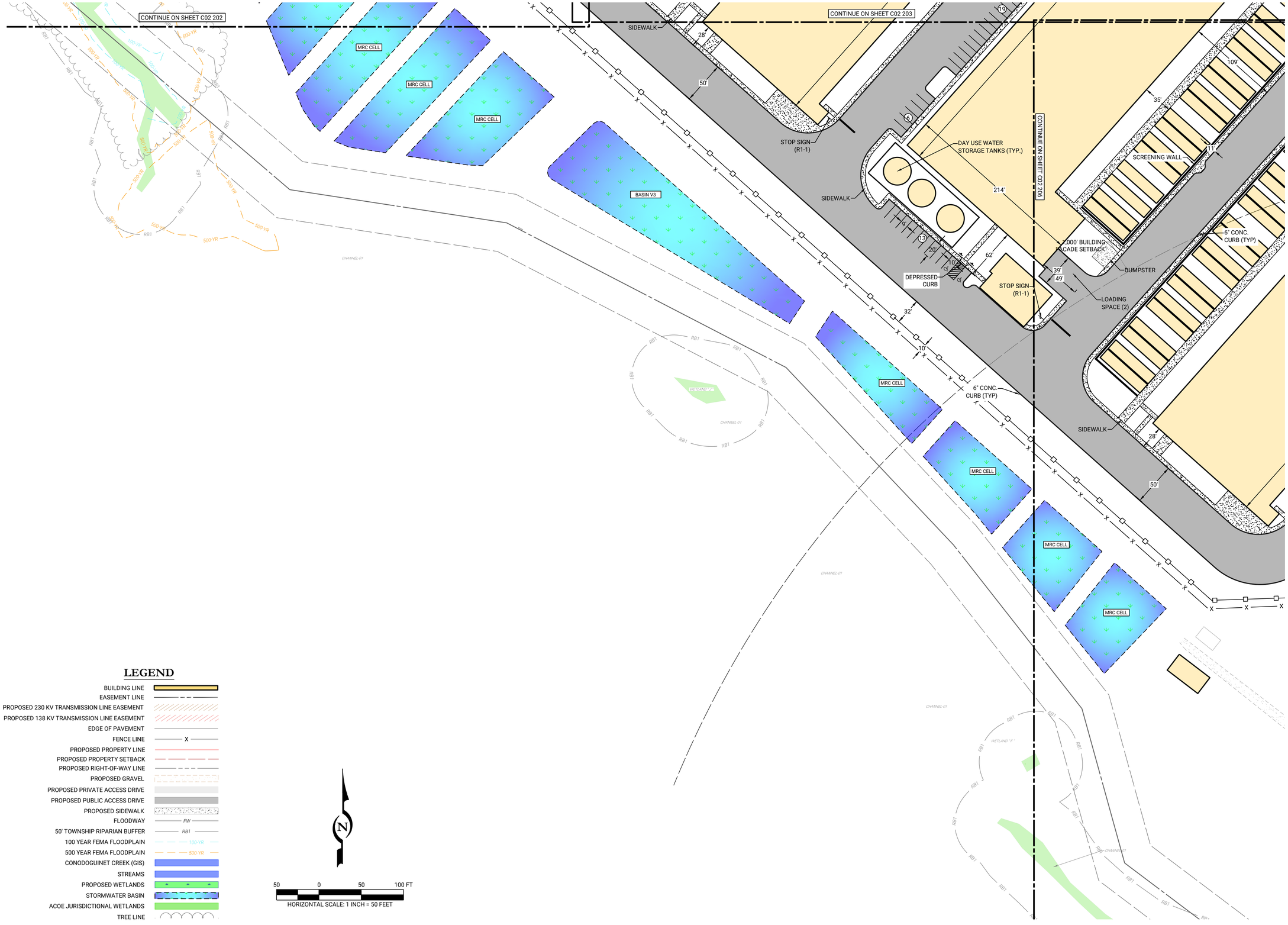
PHONE: (703) 234-3056

SHEET TITLE

SITE LAYOUT PLAN

SHEET NO.

C02 204



LEGEND

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- PROPOSED 230 KV TRANSMISSION LINE EASEMENT
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- EDGE OF PAVEMENT
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- PROPOSED PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- PROPOSED RIGHT-OF-WAY LINE
- PROPOSED GRAVEL
- PROPOSED PRIVATE ACCESS DRIVE
- PROPOSED PUBLIC ACCESS DRIVE
- PROPOSED SIDEWALK
- FLOODWAY (FW)
- 50' TOWNSHIP RIPARIAN BUFFER (RB1)
- 100 YEAR FEMA FLOODPLAIN (100-YR)
- 500 YEAR FEMA FLOODPLAIN (500-YR)
- CONODOGUINET CREEK (GIS)
- STREAMS
- PROPOSED WETLANDS
- STORMWATER BASIN
- ACOE JURISDICTIONAL WETLANDS
- TREE LINE
- BUILDING FACADE SETBACK LINE

N

50 0 50 100 FT

HORIZONTAL SCALE: 1 INCH = 50 FEET

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PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

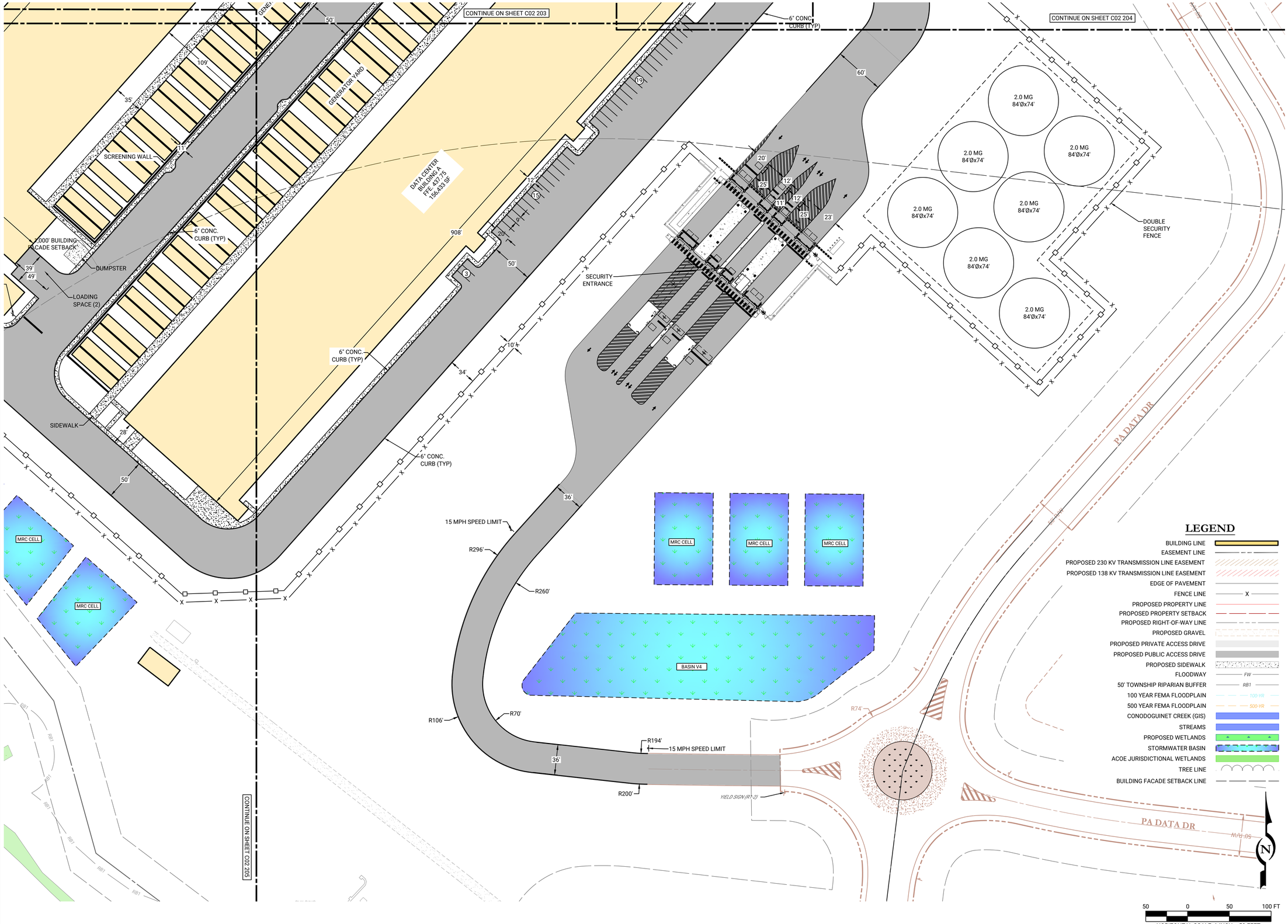
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

SITE LAYOUT PLAN

SHEET NO.

C02 205



LEGEND

- BUILDING LINE
- EASEMENT LINE
- PROPOSED 230 KV TRANSMISSION LINE EASEMENT
- PROPOSED 138 KV TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- FENCE LINE
- PROPOSED PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- PROPOSED RIGHT-OF-WAY LINE
- PROPOSED GRAVEL
- PROPOSED PRIVATE ACCESS DRIVE
- PROPOSED PUBLIC ACCESS DRIVE
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50 0 50 100 FT
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DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

SITE LAYOUT PLAN

SHEET NO.

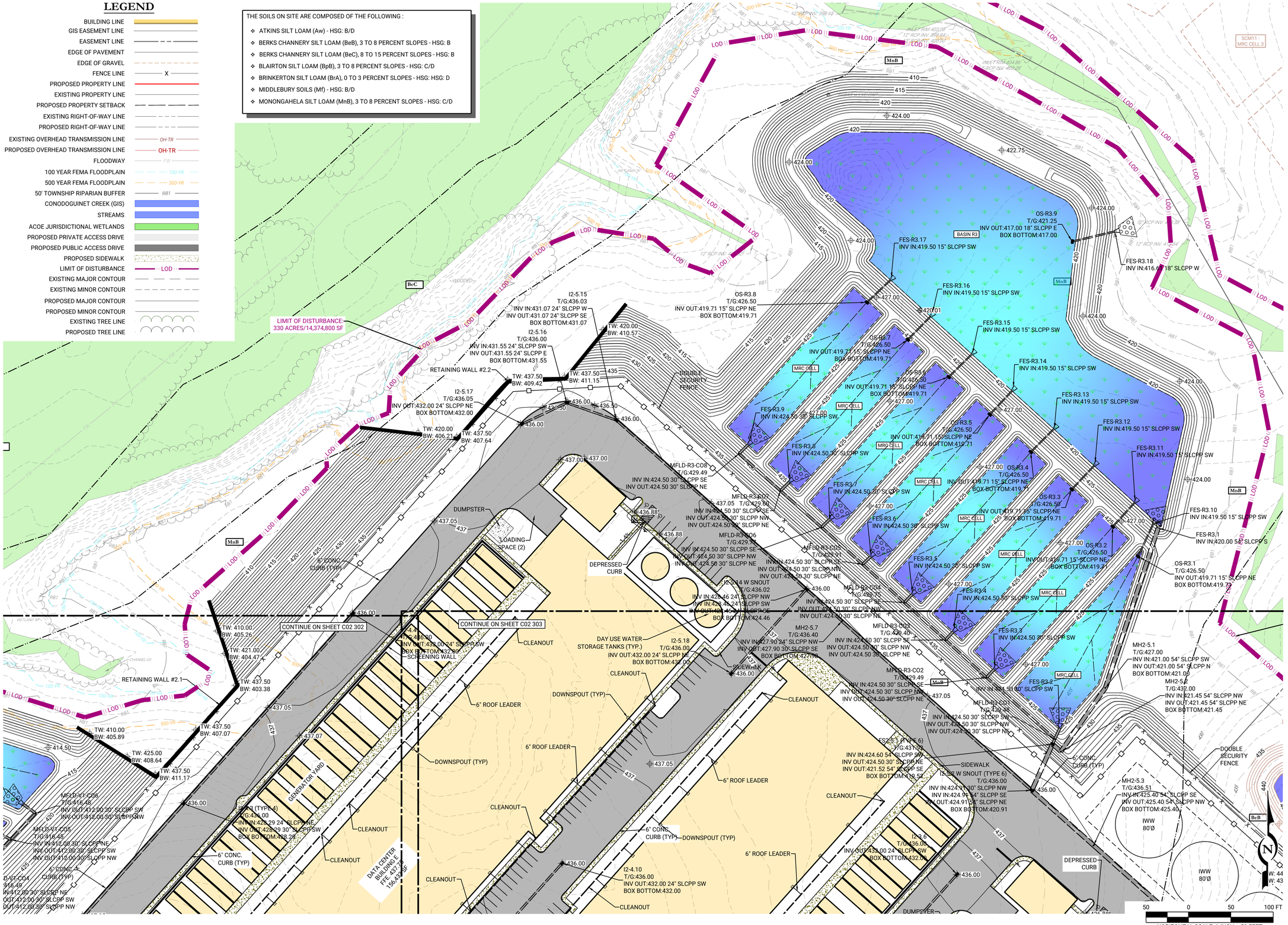
C02 206

LEGEND

- BUILDING LINE
- GIS EASEMENT LINE
- EASEMENT LINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- FENCE LINE — X
- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- EXISTING RIGHT-OF-WAY LINE
- PROPOSED RIGHT-OF-WAY LINE
- EXISTING OVERHEAD TRANSMISSION LINE — OH-TR
- PROPOSED OVERHEAD TRANSMISSION LINE — OH-TR
- FLOODWAY — FW
- 100 YEAR FEMA FLOODPLAIN — 100-YR
- 500 YEAR FEMA FLOODPLAIN — 500-YR
- 50' TOWNSHIP RIPARIAN BUFFER — RB1
- CONODOGUINET CREEK (GIS)
- STREAMS
- ACOE JURISDICTIONAL WETLANDS
- PROPOSED PRIVATE ACCESS DRIVE
- PROPOSED PUBLIC ACCESS DRIVE
- PROPOSED SIDEWALK
- LIMIT OF DISTURBANCE — LOD
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING TREE LINE
- PROPOSED TREE LINE

THE SOILS ON SITE ARE COMPOSED OF THE FOLLOWING :

- ATKINS SILT LOAM (Aw) - HSG: B/D
- BERKS CHANNERY SILT LOAM (BeB), 3 TO 8 PERCENT SLOPES - HSG: B
- BERKS CHANNERY SILT LOAM (BeC), 8 TO 15 PERCENT SLOPES - HSG: B
- BLAIRTON SILT LOAM (BpB), 3 TO 8 PERCENT SLOPES - HSG: C/D
- BRINKERTON SILT LOAM (BrA), 0 TO 3 PERCENT SLOPES - HSG: HSG: D
- MIDDLEBURY SOILS (Mf) - HSG: B/D
- MONONGAHELA SILT LOAM (MnB), 3 TO 8 PERCENT SLOPES - HSG: C/D



REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT / JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT / JHR
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT / JHR
1	11/26/2025	INITIAL SUBMISSION	RJT / JHR

ISSUE / REVISIONS

LIVIC civil
1015 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987.1993
www.liviccivil.com

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

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MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

GRADING & STORMWATER PLAN

SHEET NO.

C02 301

LEGEND

- BUILDING LINE
- GIS EASEMENT LINE
- EASEMENT LINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- FENCE LINE — X
- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- EXISTING RIGHT-OF-WAY LINE
- PROPOSED RIGHT-OF-WAY LINE
- EXISTING OVERHEAD TRANSMISSION LINE — OH-TR
- PROPOSED OVERHEAD TRANSMISSION LINE — OH-TR
- FLOODWAY — FW
- 100 YEAR FEMA FLOODPLAIN — 100-YR
- 500 YEAR FEMA FLOODPLAIN — 500-YR
- 50' TOWNSHIP RIPARIAN BUFFER — RB1
- CONODOGUINET CREEK (GIS)
- STREAMS
- ACOE JURISDICTIONAL WETLANDS
- PROPOSED PRIVATE ACCESS DRIVE
- PROPOSED PUBLIC ACCESS DRIVE
- PROPOSED SIDEWALK
- LIMIT OF DISTURBANCE — LOD
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING TREE LINE
- PROPOSED TREE LINE

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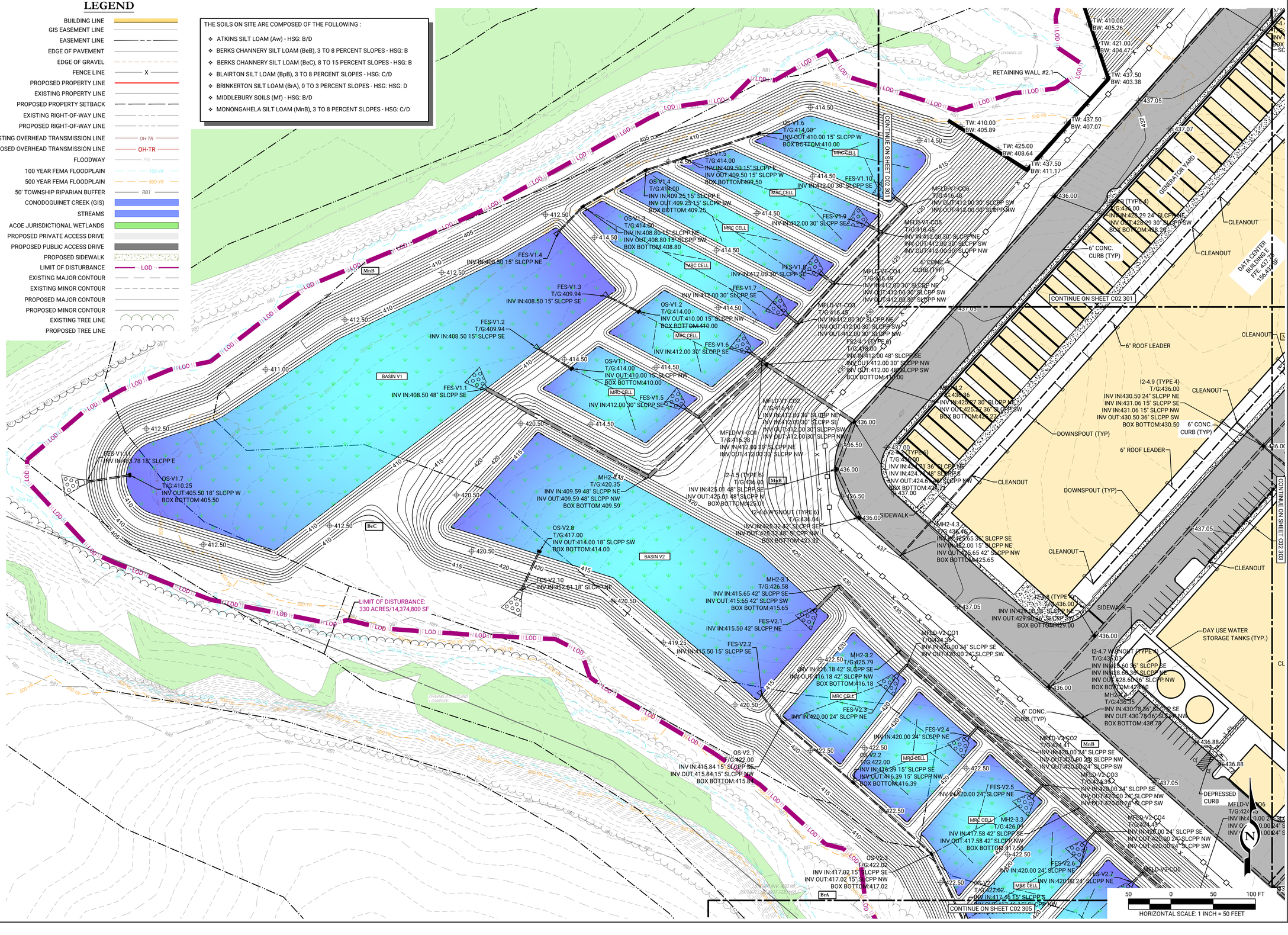
- BERKS CHANNERY SILT LOAM (BeC), 8 TO 15 PERCENT SLOPES - HSG: B
- BLAIRTON SILT LOAM (BpB), 3 TO 8 PERCENT SLOPES - HSG: C/D
- BRINKERTON SILT LOAM (BrA), 0 TO 3 PERCENT SLOPES - HSG: HSG: D
- MIDDLEBURY SOILS (Mf) - HSG: B/D
- MONONGAHELA SILT LOAM (MnB), 3 TO 8 PERCENT SLOPES - HSG: C/D



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CLIENT

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1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

GRADING & STORMWATER PLAN

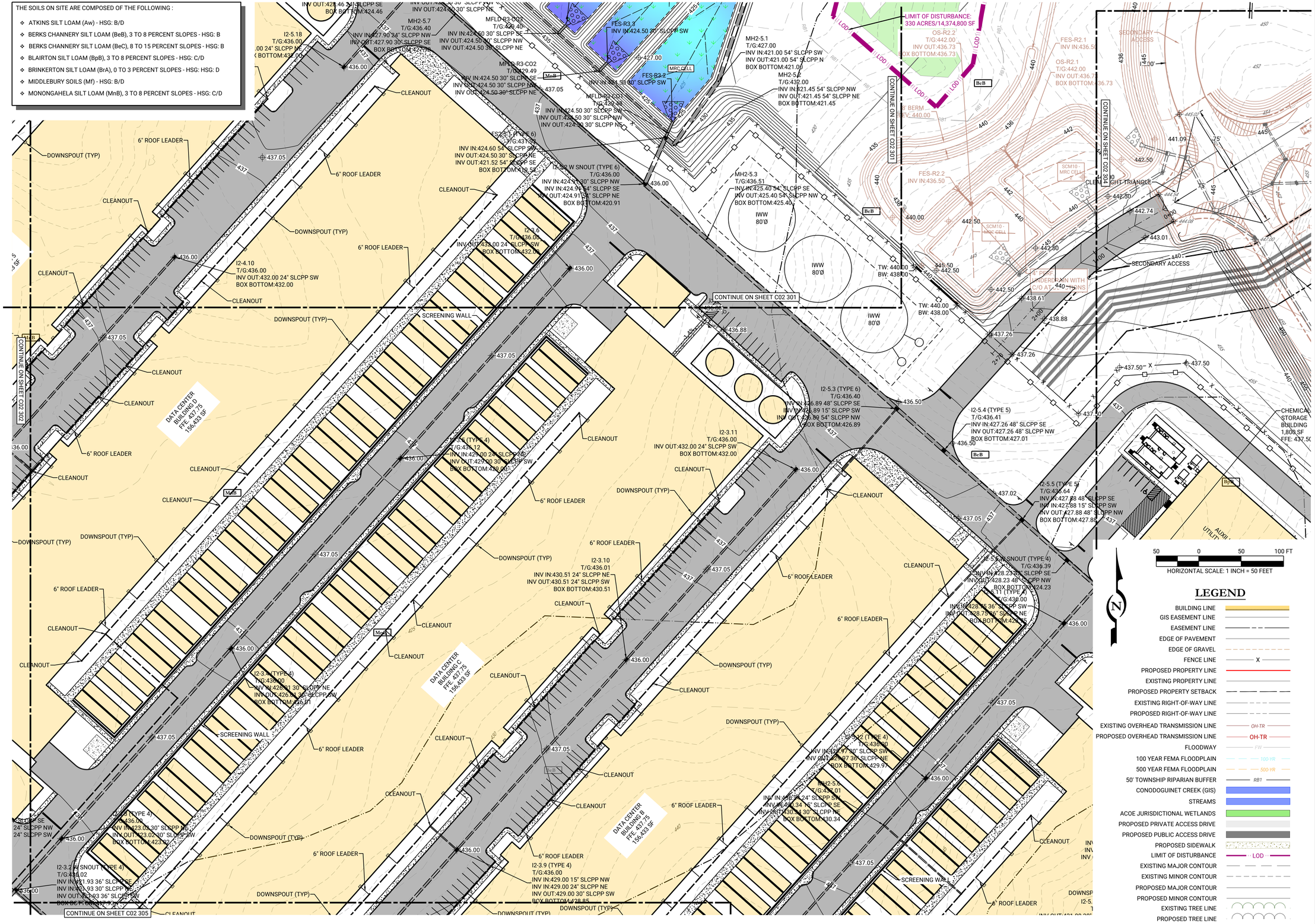
SHEET NO.

C02 302

HORIZONTAL SCALE: 1 INCH = 50 FEET

THE SOILS ON SITE ARE COMPOSED OF THE FOLLOWING :

- ATKINS SILT LOAM (Aw) - HSG: B/D
- BERKS CHANNERY SILT LOAM (BeB), 3 TO 8 PERCENT SLOPES - HSG: B
- BERKS CHANNERY SILT LOAM (BeC), 8 TO 15 PERCENT SLOPES - HSG: B
- BLAIRTON SILT LOAM (BpB), 3 TO 8 PERCENT SLOPES - HSG: C/D
- BRINKERTON SILT LOAM (BrA), 0 TO 3 PERCENT SLOPES - HSG: HSG: D
- MIDDLEBURY SOILS (Mf) - HSG: B/D
- MONONGAHELA SILT LOAM (MnB), 3 TO 8 PERCENT SLOPES - HSG: C/D



50 0 50 100 FT

HORIZONTAL SCALE: 1 INCH = 50 FEET

LEGEND

- BUILDING LINE
- GIS EASEMENT LINE
- EASEMENT LINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- FENCE LINE
- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- EXISTING RIGHT-OF-WAY LINE
- PROPOSED RIGHT-OF-WAY LINE
- EXISTING OVERHEAD TRANSMISSION LINE
- PROPOSED OVERHEAD TRANSMISSION LINE
- FLOODWAY
- 100 YEAR FEMA FLOODPLAIN
- 500 YEAR FEMA FLOODPLAIN
- 50' TOWNSHIP RIPARIAN BUFFER
- CONODOGUINET CREEK (GIS)
- STREAMS
- ACOE JURISDICTIONAL WETLANDS
- PROPOSED PRIVATE ACCESS DRIVE
- PROPOSED PUBLIC ACCESS DRIVE
- PROPOSED SIDEWALK
- LIMIT OF DISTURBANCE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING TREE LINE
- PROPOSED TREE LINE

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MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

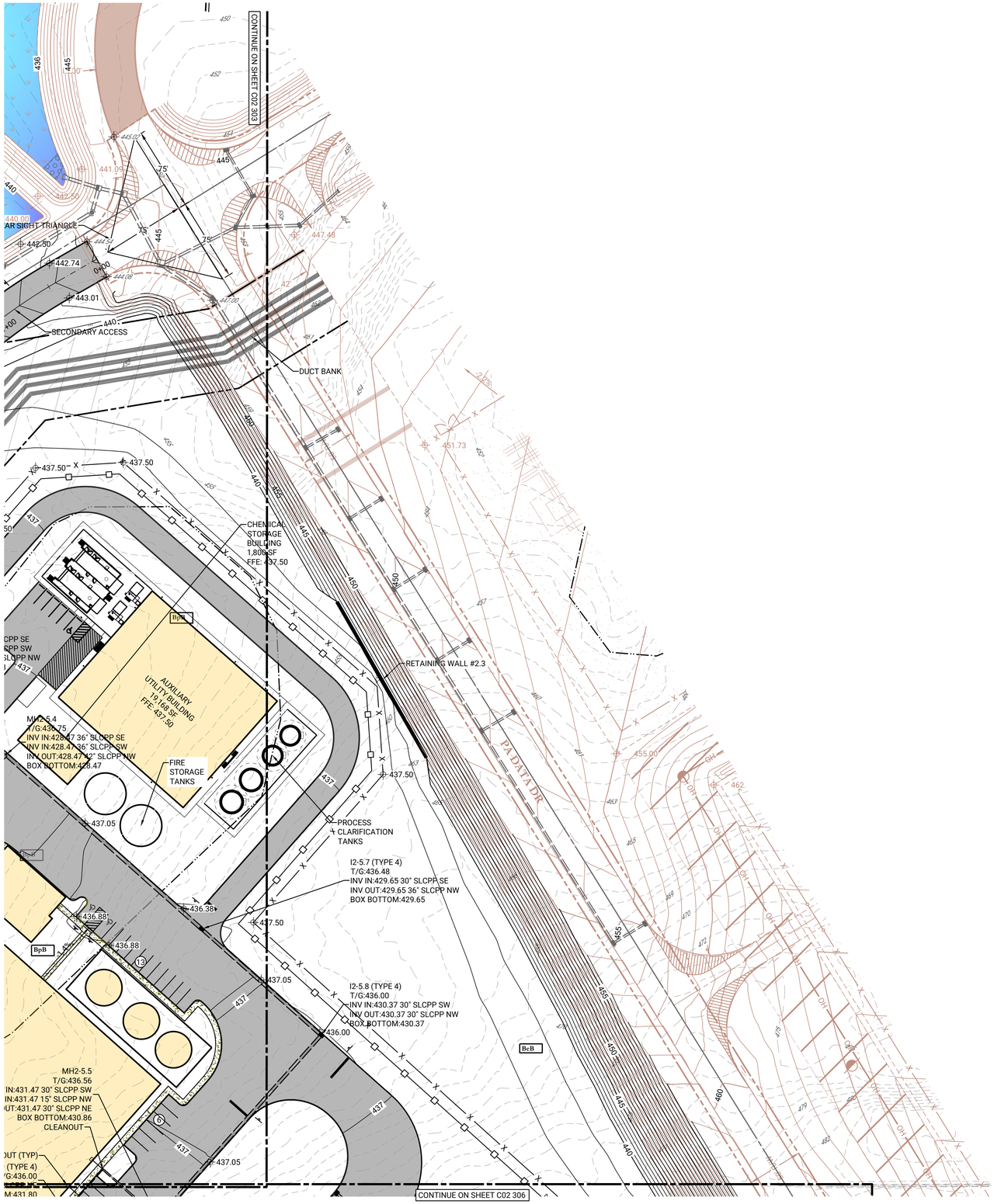
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

GRADING & STORMWATER PLAN

SHEET NO.

C02 303



LEGEND

- BUILDING LINE
- GIS EASEMENT LINE
- EASEMENT LINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- FENCE LINE — X
- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- EXISTING RIGHT-OF-WAY LINE
- PROPOSED RIGHT-OF-WAY LINE
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- 100 YEAR FEMA FLOODPLAIN — 100-YR
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- BERKS CHANNERY SILT LOAM (BeC), 8 TO 15 PERCENT SLOPES - HSG: B
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- BRINKERTON SILT LOAM (BrA), 0 TO 3 PERCENT SLOPES - HSG: HSG: D
- MIDDLEBURY SOILS (Mf) - HSG: B/D
- MONONGAHELA SILT LOAM (MnB), 3 TO 8 PERCENT SLOPES - HSG: C/D

N

50 0 50 100 FT

HORIZONTAL SCALE: 1 INCH = 50 FEET

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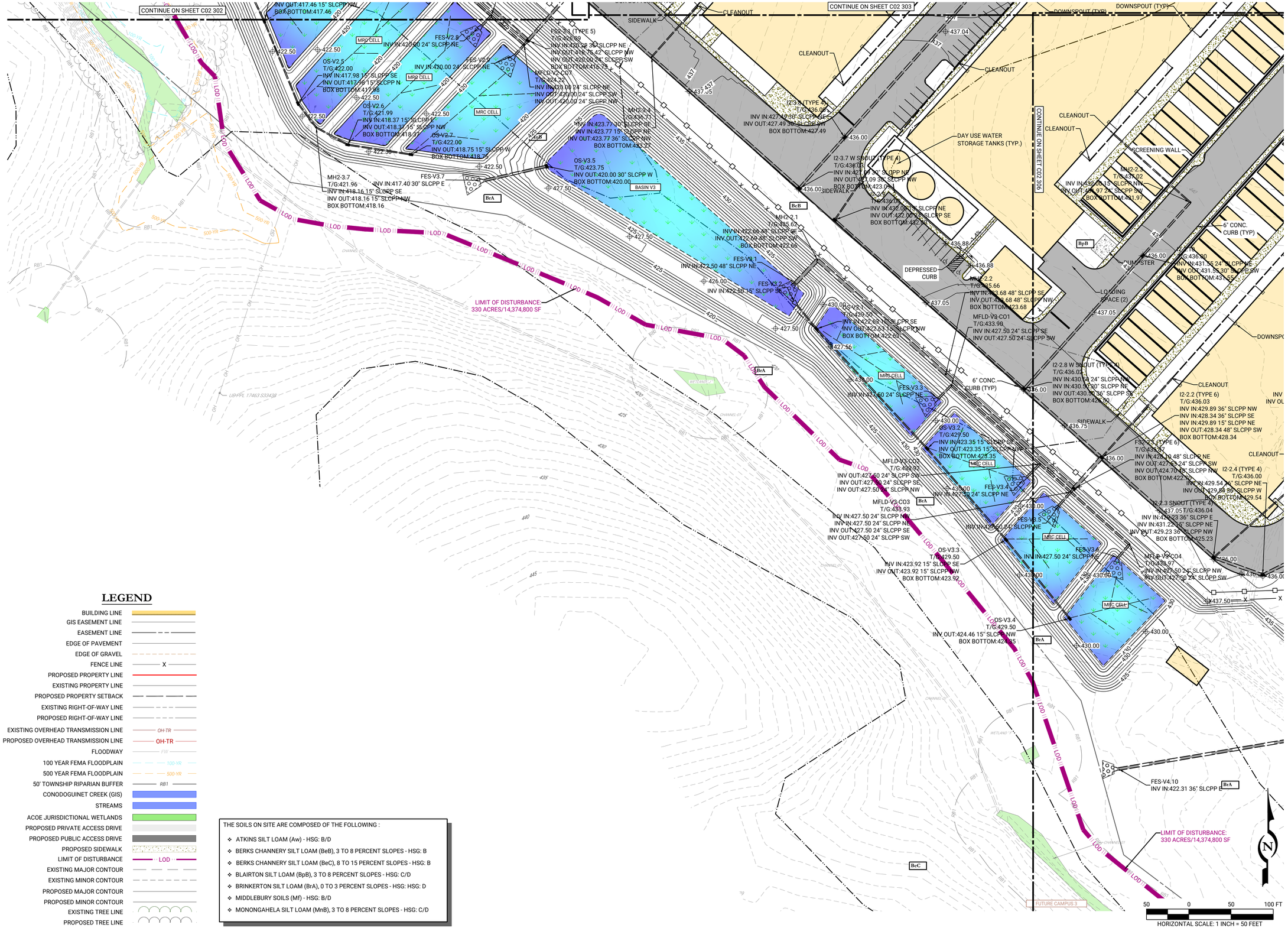
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

GRADING & STORMWATER PLAN

SHEET NO.

C02 304



LEGEND

- BUILDING LINE
- GIS EASEMENT LINE
- EASEMENT LINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- FENCE LINE
- PROPOSED PROPERTY LINE
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CUMBERLAND COUNTY
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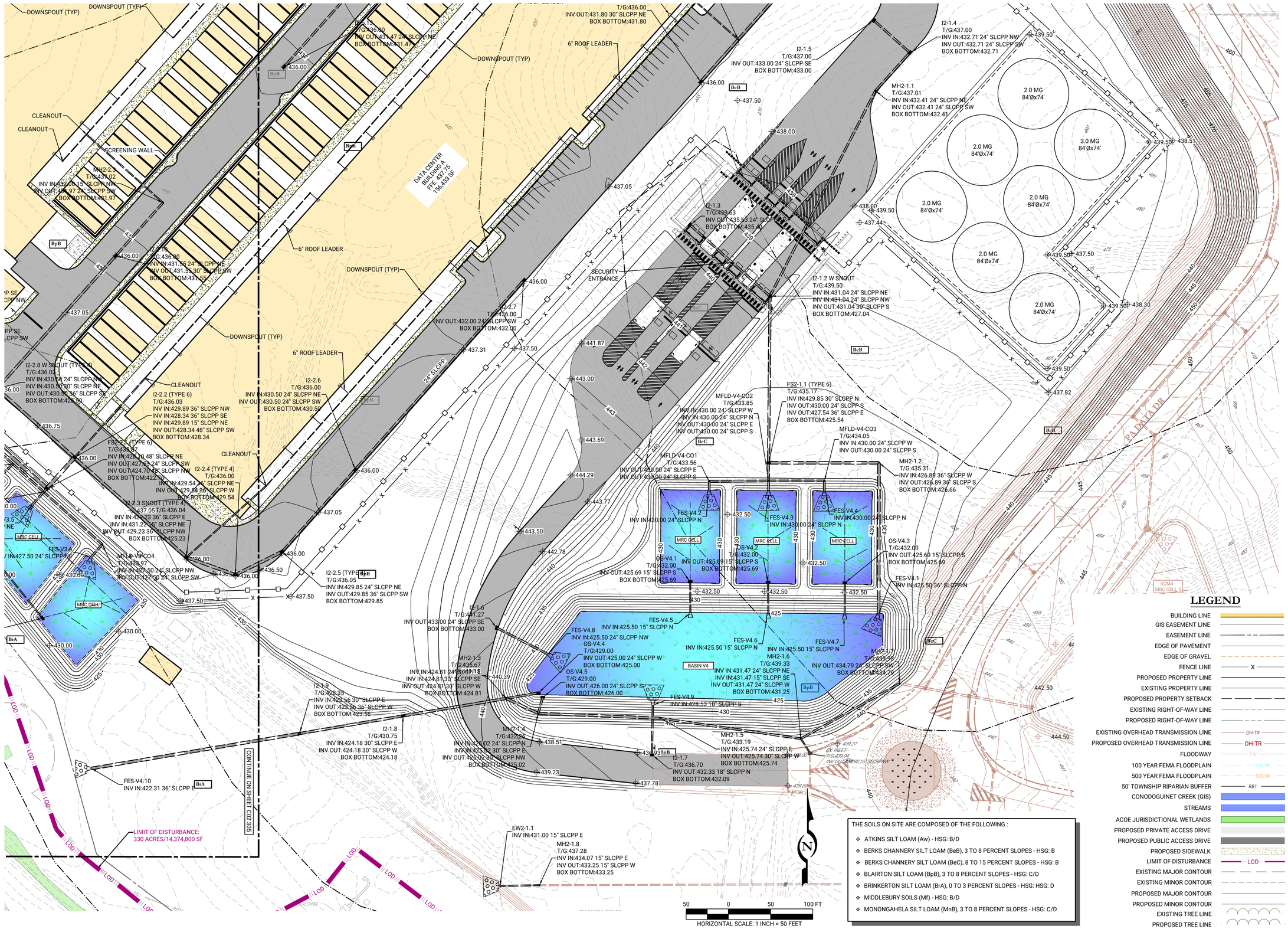
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

GRADING & STORMWATER PLAN

SHEET NO.

C02 305



LEGEND

- BUILDING LINE
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CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

GRADING & STORMWATER PLAN

SHEET NO.

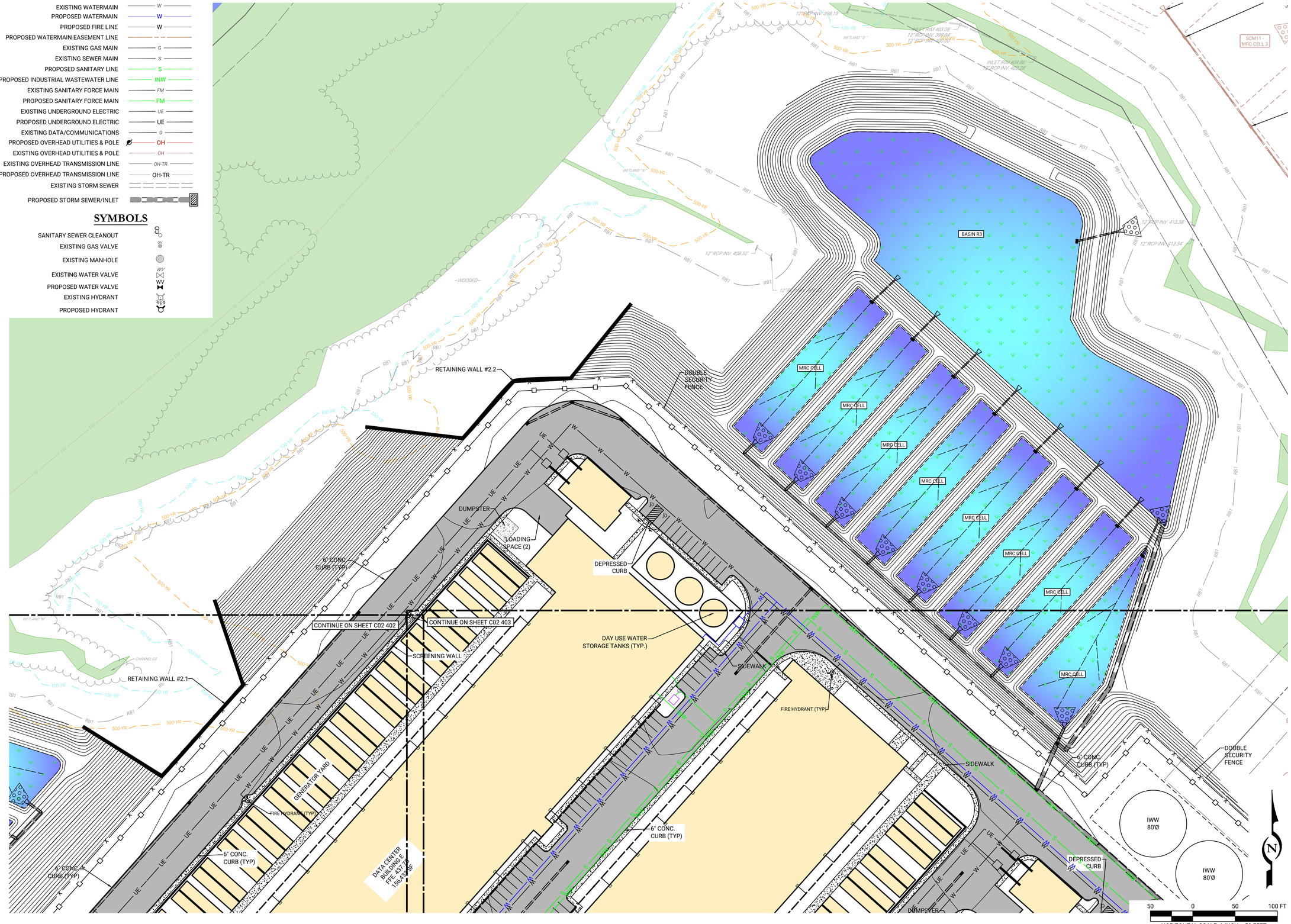
C02 306

LEGEND

EXISTING WATERMAIN	W
PROPOSED WATERMAIN	W
PROPOSED FIRE LINE	W
PROPOSED WATERMAIN EASEMENT LINE	
EXISTING GAS MAIN	G
EXISTING SEWER MAIN	S
PROPOSED SANITARY LINE	S
PROPOSED INDUSTRIAL WASTEWATER LINE	INW
EXISTING SANITARY FORCE MAIN	FM
PROPOSED SANITARY FORCE MAIN	FM
EXISTING UNDERGROUND ELECTRIC	UE
PROPOSED UNDERGROUND ELECTRIC	UE
EXISTING DATA/COMMUNICATIONS	0
PROPOSED OVERHEAD UTILITIES & POLE	OH
EXISTING OVERHEAD UTILITIES & POLE	OH
EXISTING OVERHEAD TRANSMISSION LINE	OH-TR
PROPOSED OVERHEAD TRANSMISSION LINE	OH-TR
EXISTING STORM SEWER	
PROPOSED STORM SEWER/INLET	

SYMBOLS

SANITARY SEWER CLEANOUT	CO
EXISTING GAS VALVE	GV
EXISTING MANHOLE	
EXISTING WATER VALVE	WV
PROPOSED WATER VALVE	WV
EXISTING HYDRANT	
PROPOSED HYDRANT	



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CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

UTILITY PLAN

SHEET NO.

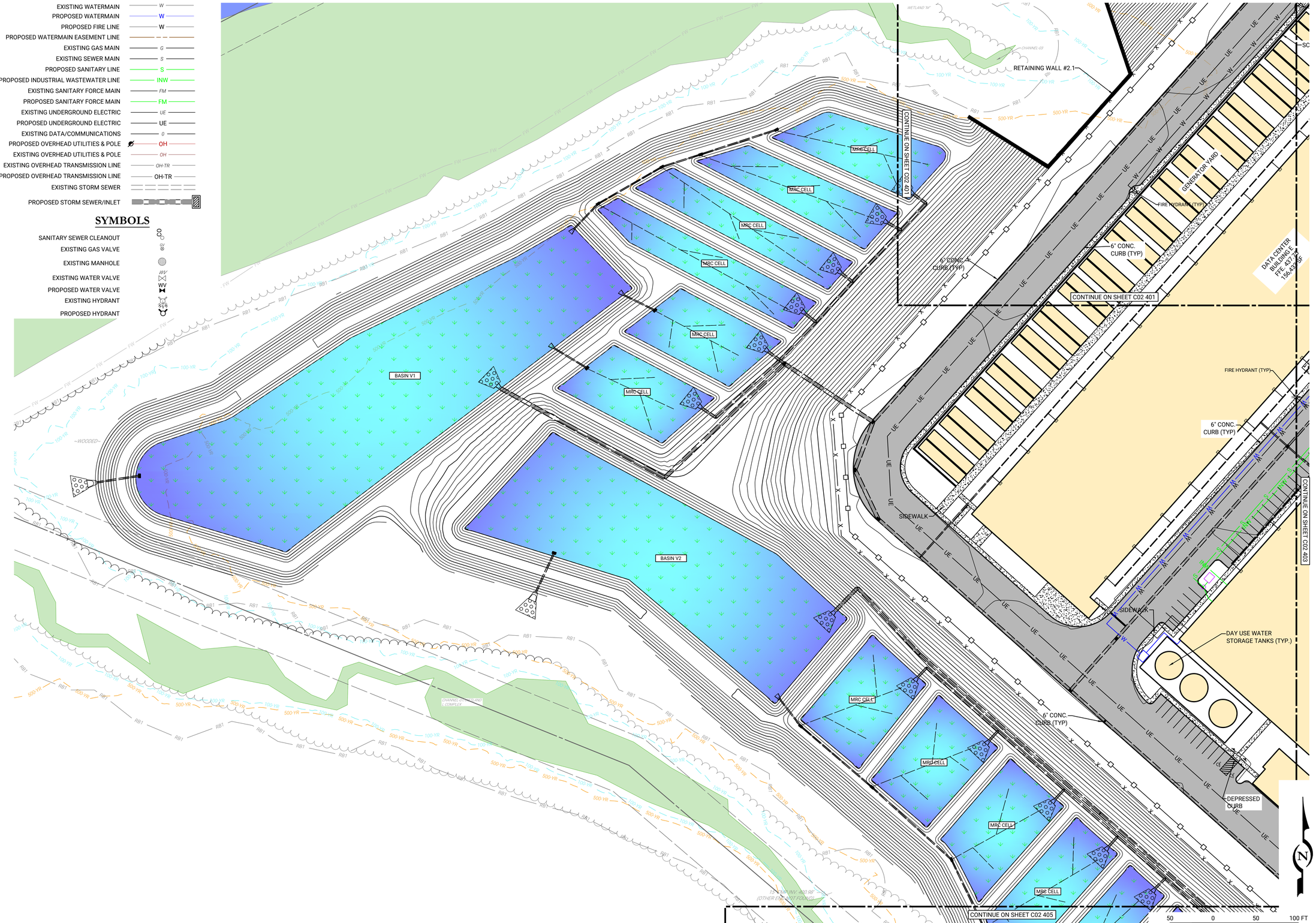
C02 401

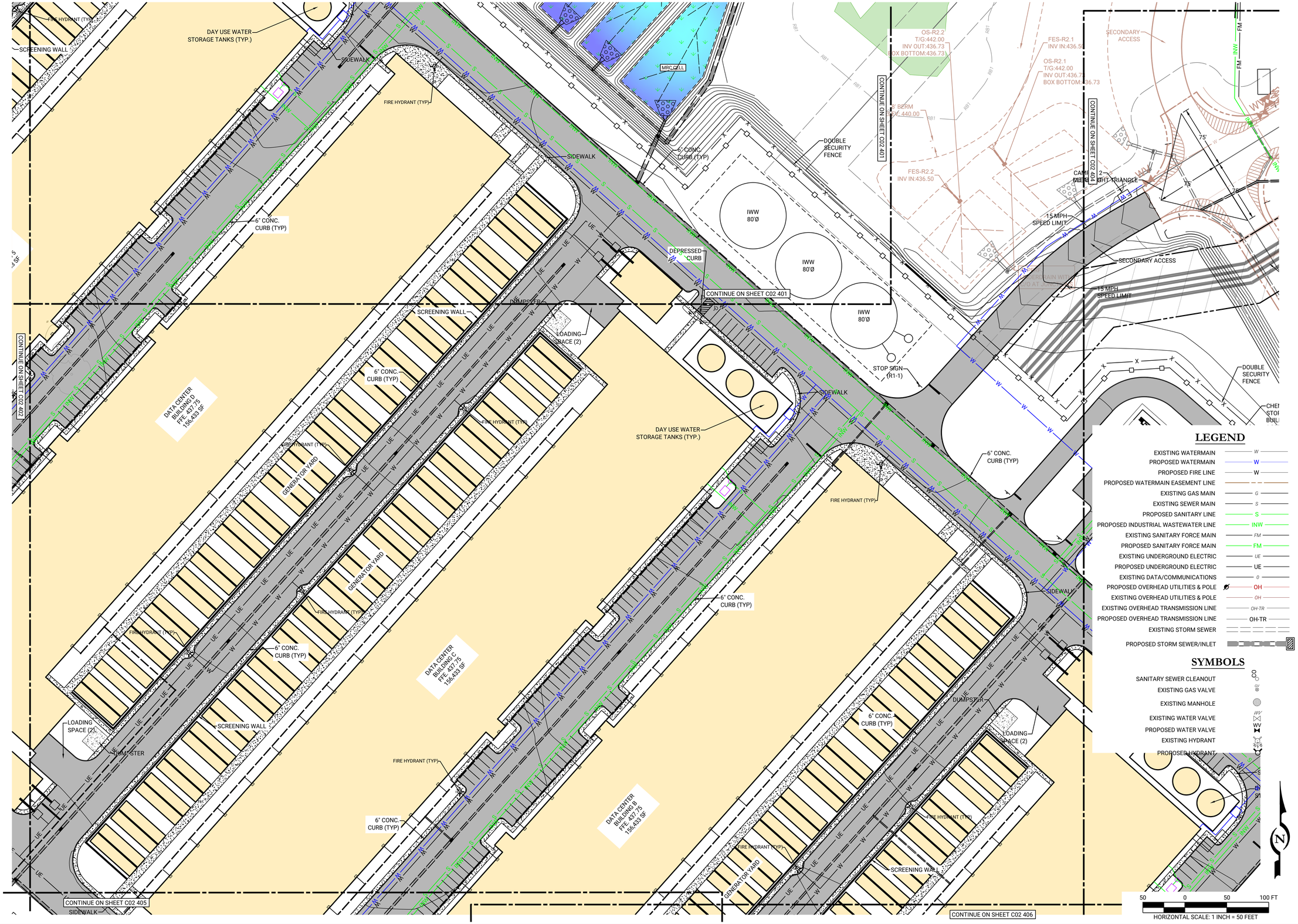
LEGEND

- EXISTING WATERMAIN — W
- PROPOSED WATERMAIN — W
- PROPOSED FIRE LINE — W
- PROPOSED WATERMAIN EASEMENT LINE
- EXISTING GAS MAIN — G
- EXISTING SEWER MAIN — S
- PROPOSED SANITARY LINE — S
- PROPOSED INDUSTRIAL WASTEWATER LINE — INW
- EXISTING SANITARY FORCE MAIN — FM
- PROPOSED SANITARY FORCE MAIN — FM
- EXISTING UNDERGROUND ELECTRIC — UE
- PROPOSED UNDERGROUND ELECTRIC — UE
- EXISTING DATA/COMMUNICATIONS — O
- PROPOSED OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD TRANSMISSION LINE — OH-TR
- PROPOSED OVERHEAD TRANSMISSION LINE — OH-TR
- EXISTING STORM SEWER
- PROPOSED STORM SEWER/INLET

SYMBOLS

- SANITARY SEWER CLEANOUT
- EXISTING GAS VALVE
- EXISTING MANHOLE
- EXISTING WATER VALVE
- PROPOSED WATER VALVE — WV
- EXISTING HYDRANT
- PROPOSED HYDRANT





REV	DATE	ISSUE / REVISIONS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT	JHR
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT	JHR
1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

LIVIC civil
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2ND FLOOR
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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

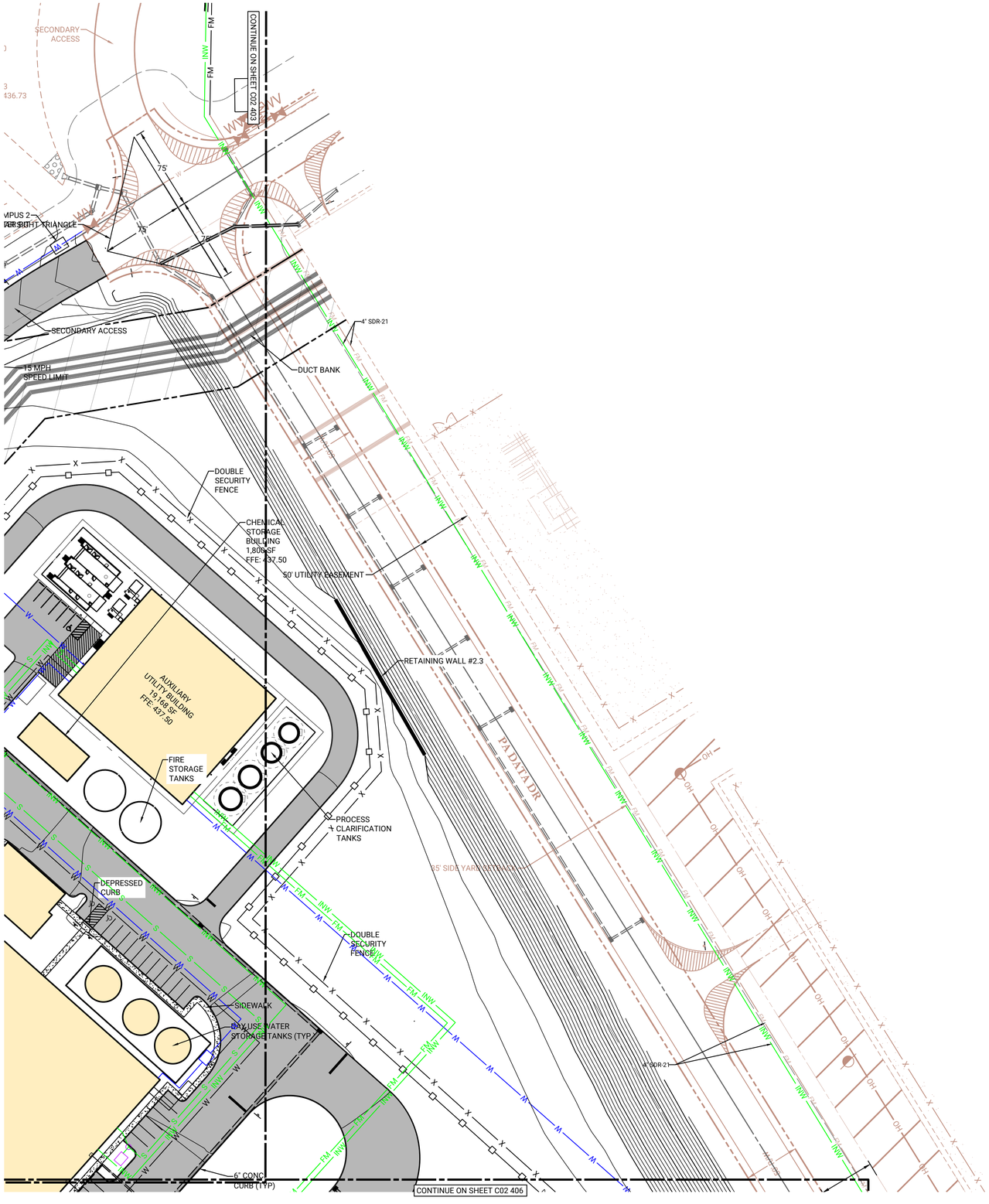
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

UTILITY PLAN

SHEET NO.

C02 403



LEGEND

EXISTING WATERMAIN	W
PROPOSED WATERMAIN	W
PROPOSED FIRE LINE	W
PROPOSED WATERMAIN EASEMENT LINE	
EXISTING GAS MAIN	G
EXISTING SEWER MAIN	S
PROPOSED SANITARY LINE	S
PROPOSED INDUSTRIAL WASTEWATER LINE	INW
EXISTING SANITARY FORCE MAIN	FM
PROPOSED SANITARY FORCE MAIN	FM
EXISTING UNDERGROUND ELECTRIC	UE
PROPOSED UNDERGROUND ELECTRIC	UE
EXISTING DATA/COMMUNICATIONS	D
PROPOSED OVERHEAD UTILITIES & POLE	OH
EXISTING OVERHEAD UTILITIES & POLE	OH
EXISTING OVERHEAD TRANSMISSION LINE	OH-TR
PROPOSED OVERHEAD TRANSMISSION LINE	OH-TR
EXISTING STORM SEWER	
PROPOSED STORM SEWER/INLET	

SYMBOLS

- SANITARY SEWER CLEANOUT
- EXISTING GAS VALVE
- EXISTING MANHOLE
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING HYDRANT
- PROPOSED HYDRANT

50 0 50 100 FT

HORIZONTAL SCALE: 1 INCH = 50 FEET

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT	JHR
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT	JHR
1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

ISSUE / REVISIONS

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DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

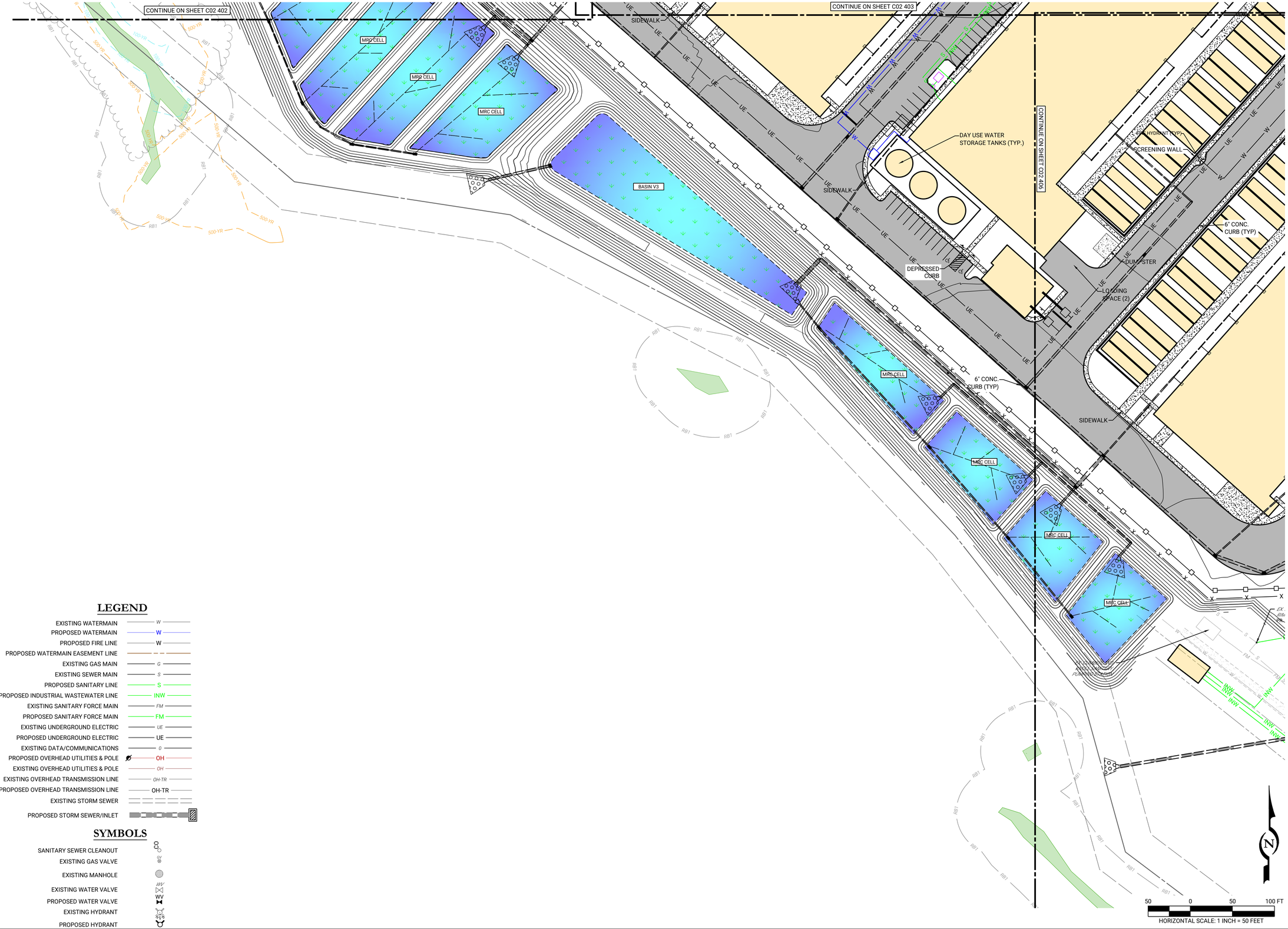
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

UTILITY PLAN

SHEET NO.

C02 404



LEGEND

- EXISTING WATERMAIN — W
- PROPOSED WATERMAIN — W
- PROPOSED FIRE LINE — W
- PROPOSED WATERMAIN EASEMENT LINE
- EXISTING GAS MAIN — G
- EXISTING SEWER MAIN — S
- PROPOSED SANITARY LINE — S
- PROPOSED INDUSTRIAL WASTEWATER LINE — INW
- EXISTING SANITARY FORCE MAIN — FM
- PROPOSED SANITARY FORCE MAIN — FM
- EXISTING UNDERGROUND ELECTRIC — UE
- PROPOSED UNDERGROUND ELECTRIC — UE
- EXISTING DATA/COMMUNICATIONS — O
- PROPOSED OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD TRANSMISSION LINE — OH-TR
- PROPOSED OVERHEAD TRANSMISSION LINE — OH-TR
- EXISTING STORM SEWER
- PROPOSED STORM SEWER/INLET

SYMBOLS

- SANITARY SEWER CLEANOUT
- EXISTING GAS VALVE — GV
- EXISTING MANHOLE
- EXISTING WATER VALVE — WV
- PROPOSED WATER VALVE — WV
- EXISTING HYDRANT
- PROPOSED HYDRANT

REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT JHR
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2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT JHR
1	11/26/2025	INITIAL SUBMISSION	RJT JHR

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PROJECT No:	1258-01
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SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

UTILITY PLAN

SHEET NO.

C02 405

CONTINUE ON SHEET C02 403

CONTINUE ON SHEET C02 404

CONTINUE ON SHEET C02 405

6" CONC. CURB (TYP)

GENERATOR YARD

FIRE HYDRANT (TYP)

SCREENING WALL

DUMPSTER

LOADING SPACE (2)

SIDEWALK

DATA CENTER BUILDING A
FFE: 437.75
156,433 SF

SECURITY ENTRANCE

24" SLOPP

2.0 MG
84'Ø x 74'

DOUBLE SECURITY FENCE

50' UTILITY EASEMENT

MRC CELL

BASIN V4

EX. MANHOLE
RIM 433.76
CH. INV IN: 427.36

EX. MANHOLE
RIM 433.76
PLUMMING 90° (TYP)

WATERLINE

SANITARY LINE

FORCE MAIN

PA DATA DR

RBT

RBT-CHANNEL

LEGEND

EXISTING WATERMAIN	W
PROPOSED WATERMAIN	W
PROPOSED FIRE LINE	W
PROPOSED WATERMAIN EASEMENT LINE	
EXISTING GAS MAIN	G
EXISTING SEWER MAIN	S
PROPOSED SANITARY LINE	S
PROPOSED INDUSTRIAL WASTEWATER LINE	INW
EXISTING SANITARY FORCE MAIN	FM
PROPOSED SANITARY FORCE MAIN	FM
EXISTING UNDERGROUND ELECTRIC	UE
PROPOSED UNDERGROUND ELECTRIC	UE
EXISTING DATA/COMMUNICATIONS	D
PROPOSED OVERHEAD UTILITIES & POLE	OH
EXISTING OVERHEAD UTILITIES & POLE	OH
EXISTING OVERHEAD TRANSMISSION LINE	OH-TR
PROPOSED OVERHEAD TRANSMISSION LINE	OH-TR
EXISTING STORM SEWER	
PROPOSED STORM SEWER/INLET	

SYMBOLS

SANITARY SEWER CLEANOUT	
EXISTING GAS VALVE	GV
EXISTING MANHOLE	
EXISTING WATER VALVE	WV
PROPOSED WATER VALVE	WV
EXISTING HYDRANT	
PROPOSED HYDRANT	

50 0 50 100 FT
HORIZONTAL SCALE: 1 INCH = 50 FEET

REV	DATE	COMMENTS	BY	CHKD
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PROJECT No: 1258-01
DATE: NOVEMBER 26, 2025
SCALE: AS SHOWN
DRAWN BY: RJB | CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

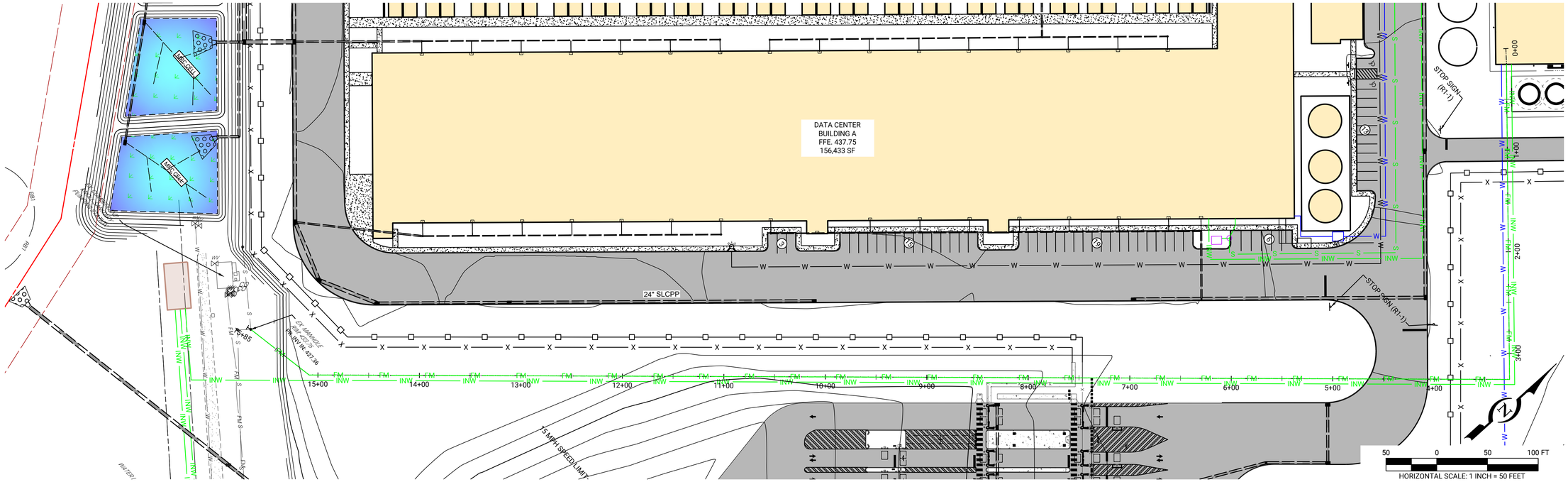
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

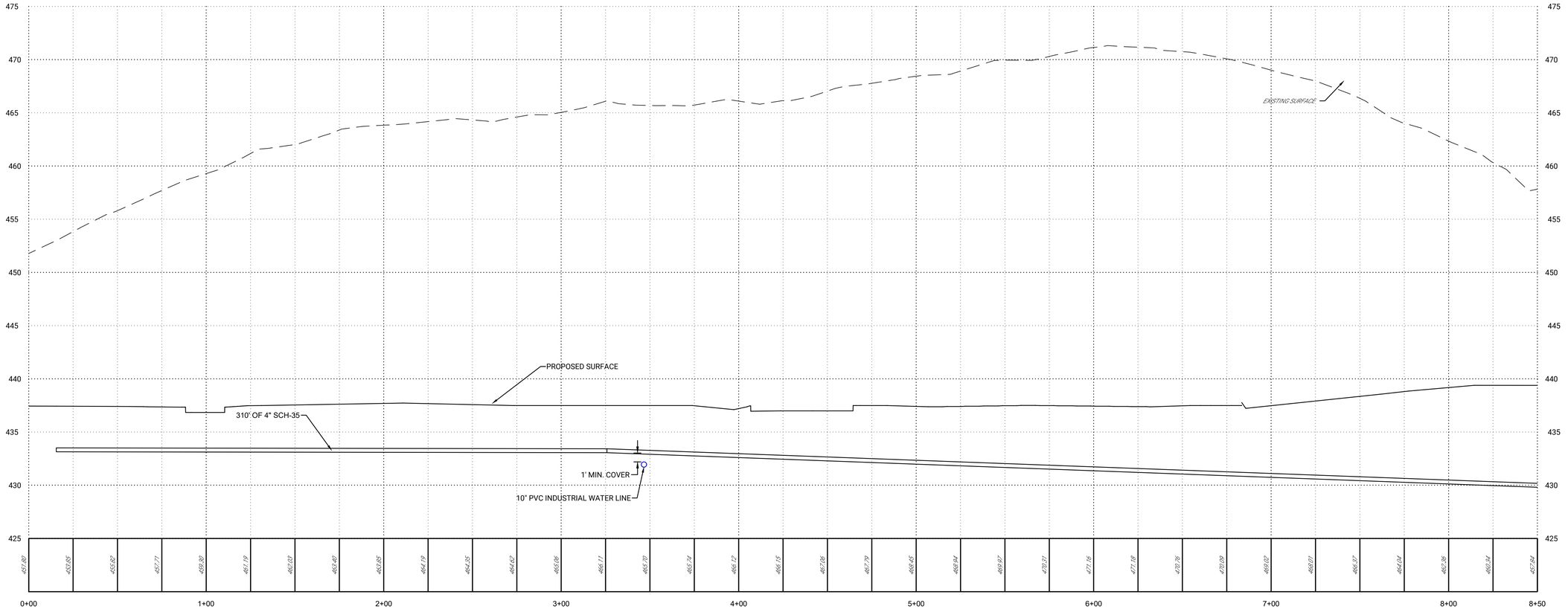
SHEET TITLE

UTILITY PLAN

SHEET NO.

C02 406





4" SANITARY SEWER WASTE WATER FORCEMAIN PROFILE

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT	JHR
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1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

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PROJECT No:	1258-01
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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

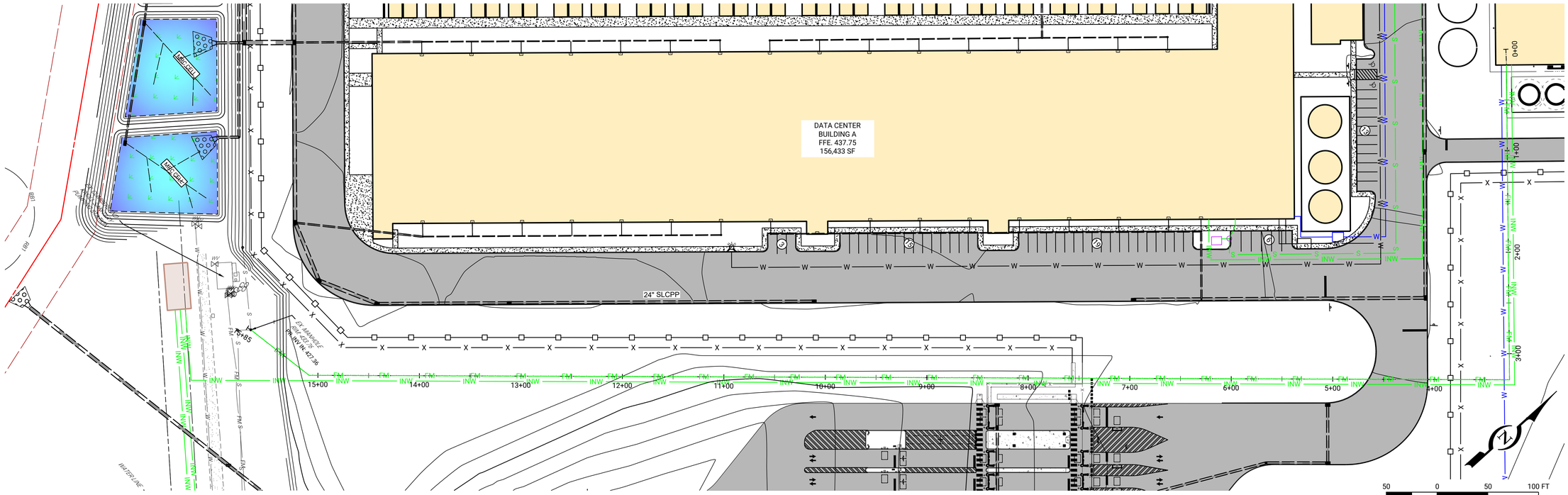
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

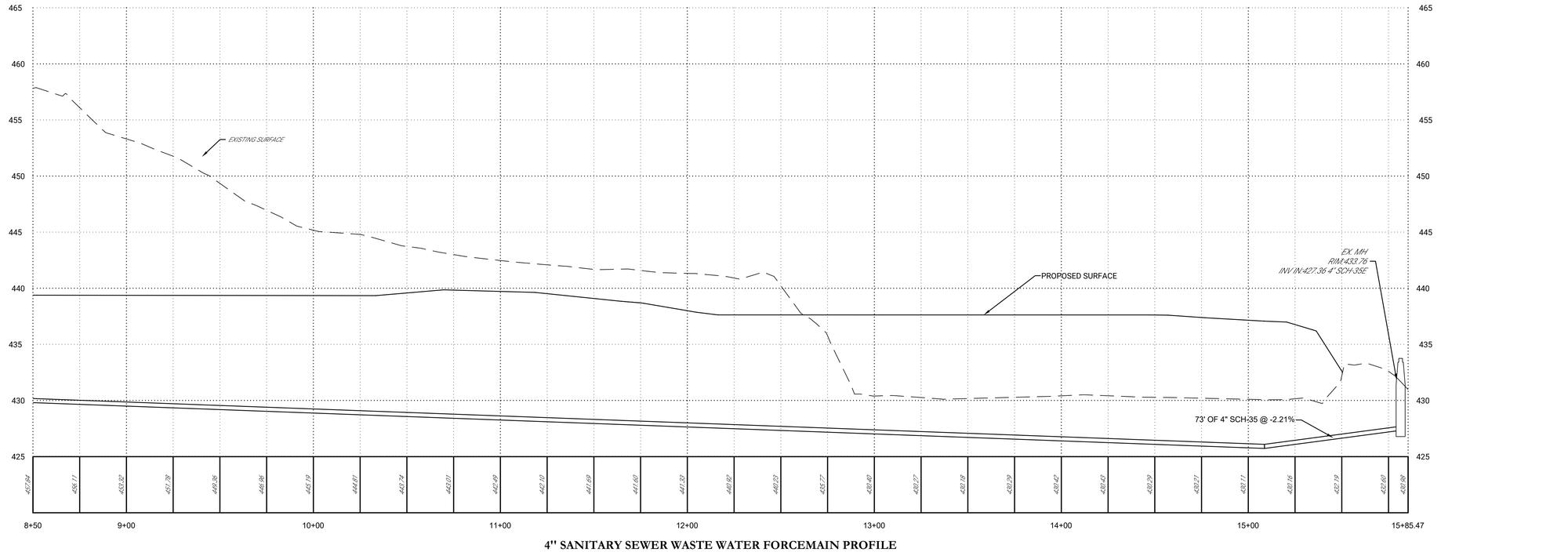
SHEET TITLE

PROFILE PLAN

SHEET NO.

C02 501





4" SANITARY SEWER WASTE WATER FORCEMAIN PROFILE

5 0 5 10 FT
VERTICAL SCALE: 1 INCH = 5 FEET

30 0 30 60 FT
HORIZONTAL SCALE: 1 INCH = 30 FEET

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT	JHR
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT	JHR
1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

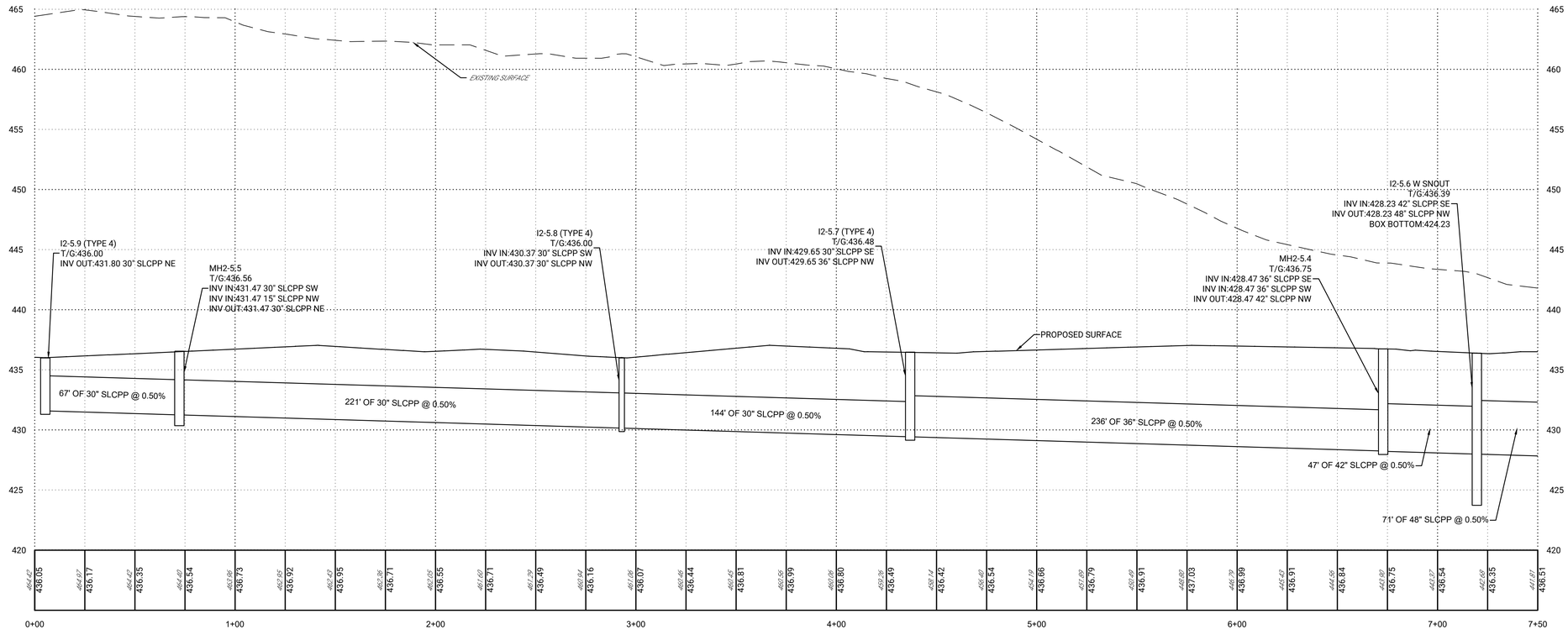
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

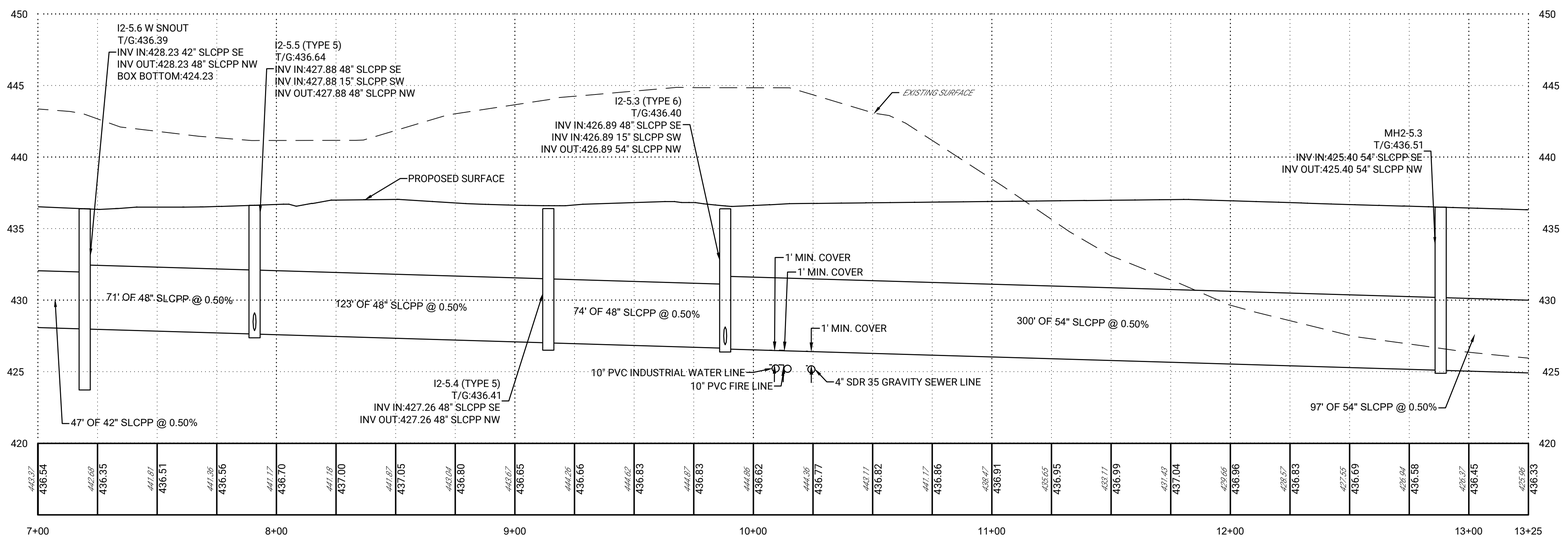
PROFILE PLAN

SHEET NO.

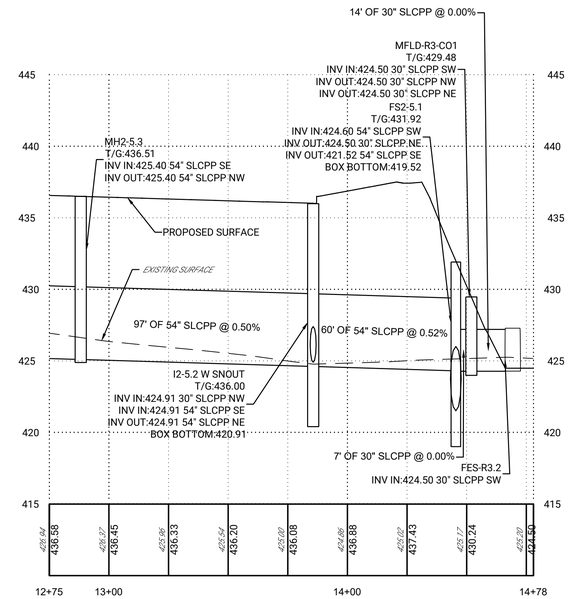
C02 502



I2-5 I2-5.9 TO I2-5.6 PROFILE



I2-5 I2-5.7 TO MH2-5.3 PROFILE



MH2-5.3 TO FES-R3.2 PROFILE

5 0 5 10 FT
VERTICAL SCALE: 1 INCH = 5 FEET

30 0 30 60 FT
HORIZONTAL SCALE: 1 INCH = 30 FEET

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
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DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

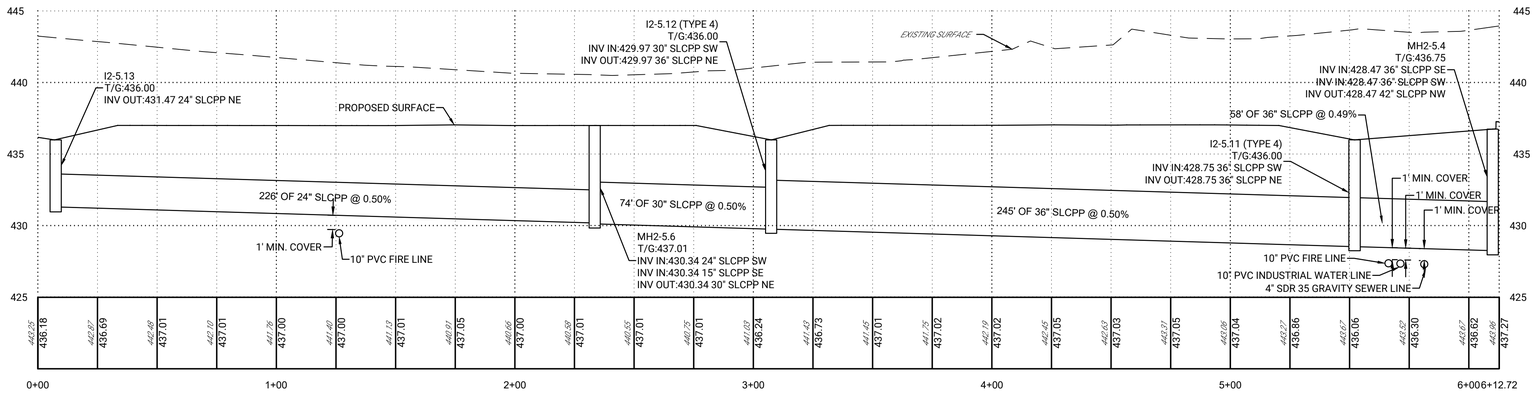
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

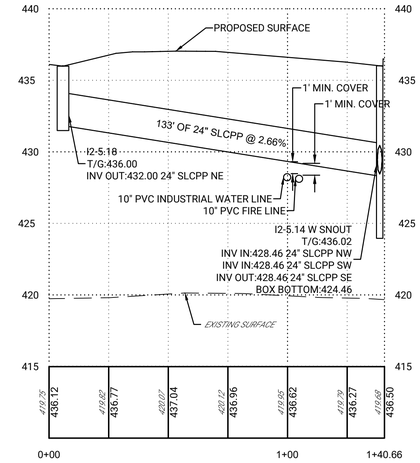
PROFILE PLAN

SHEET NO.

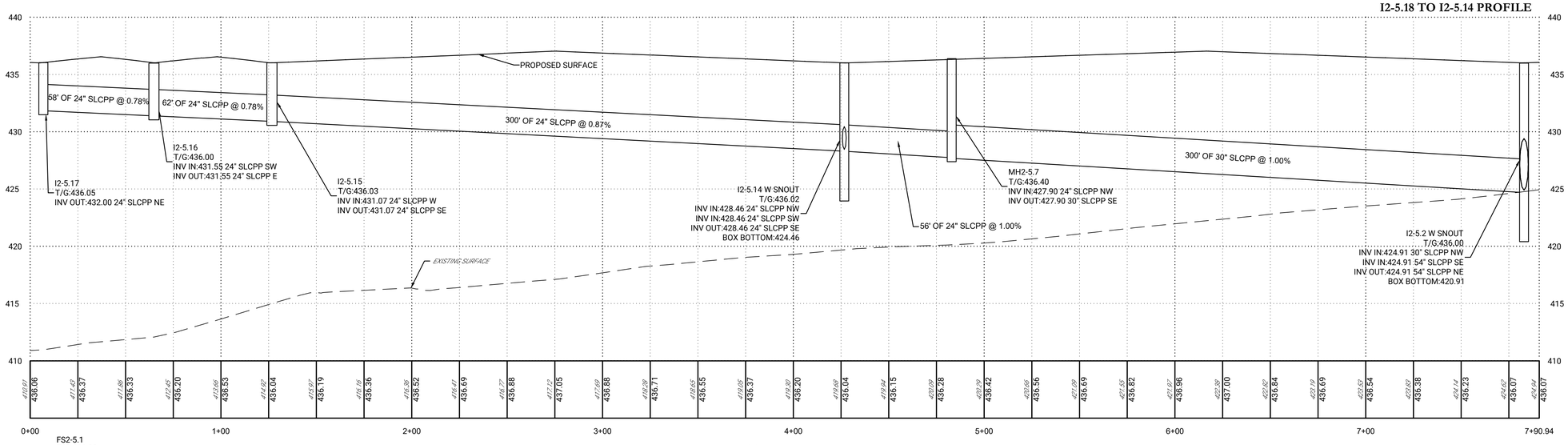
C02 503



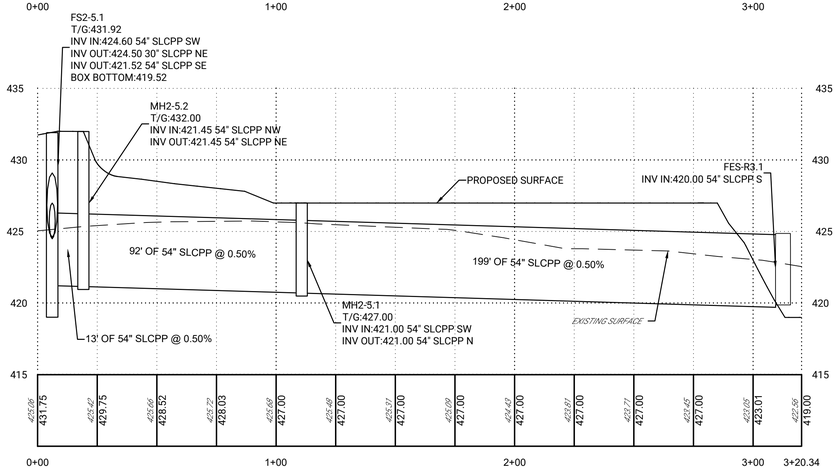
I2-5.13 TO MH2-5.4 PROFILE



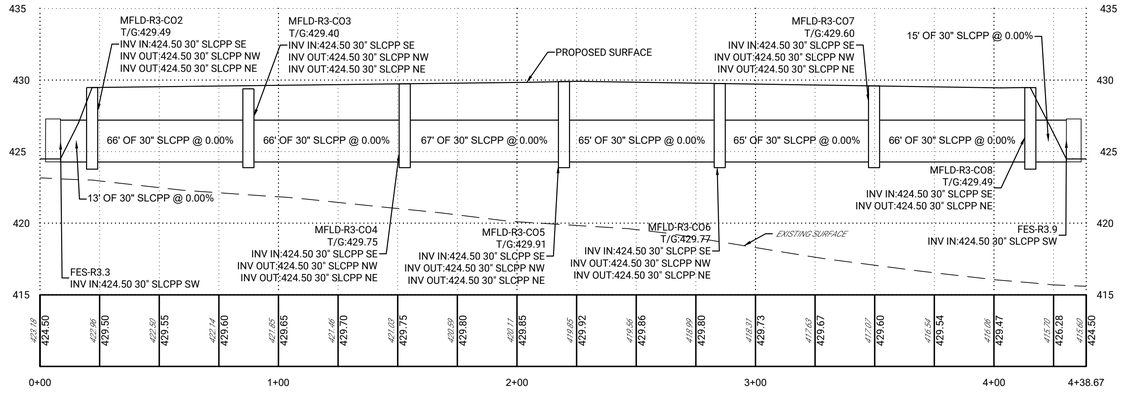
I2-5.18 TO I2-5.14 PROFILE



I2-5.17 TO I2-5.2 PROFILE



FS2-5.1 TO FES-R3.1 PROFILE



BASIN R3 MANIFOLD PROFILE

VERTICAL SCALE: 1 INCH = 5 FEET

HORIZONTAL SCALE: 1 INCH = 30 FEET

REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT
1	11/26/2025	INITIAL SUBMISSION	RJT

ISSUE / REVISIONS

CHKD: JHR

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DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

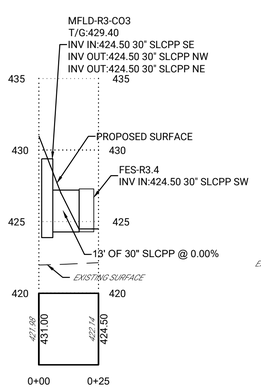
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

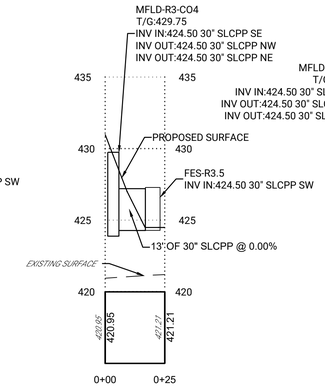
PROFILE PLAN

SHEET NO.

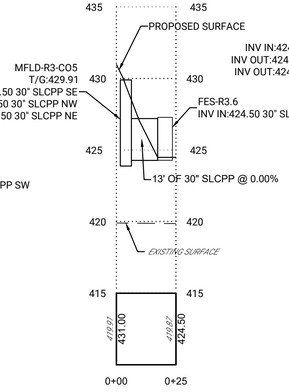
C02 504



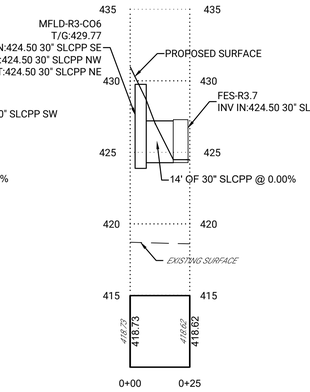
MFLD-R3-CO3 TO FES-R3.4 PROFILE



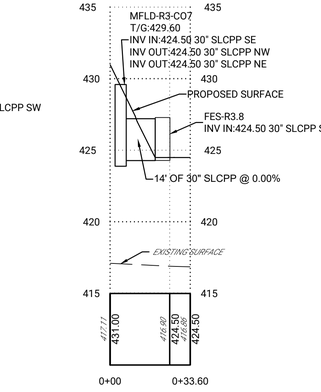
MFLD-R3-CO4 TO FES-R3.5 PROFILE



MFLD-R3-CO5 TO FES-R3.6 PROFILE



MFLD-R3-CO6 TO FES-R3.7 PROFILE



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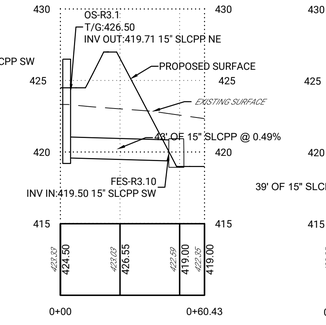

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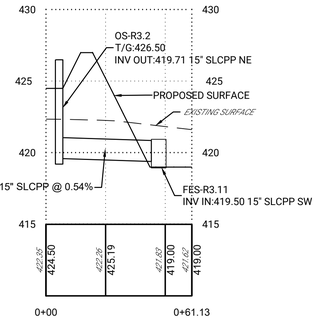
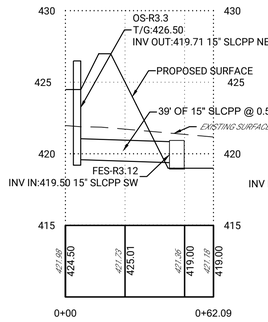


OS-R3.2 TO FES-R3.11 PROFILE



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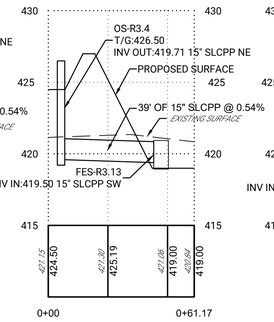
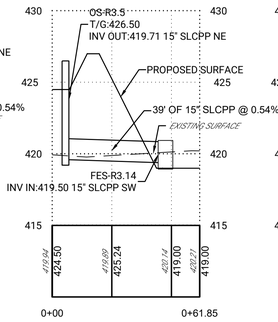
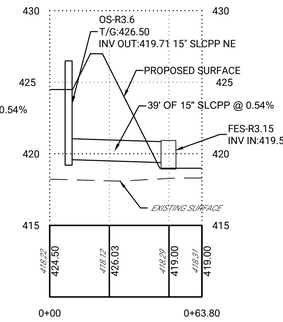


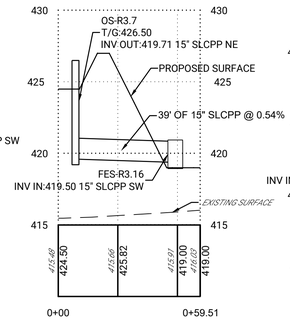
OS-R3.4 TO FES-R3.13 PROFILE



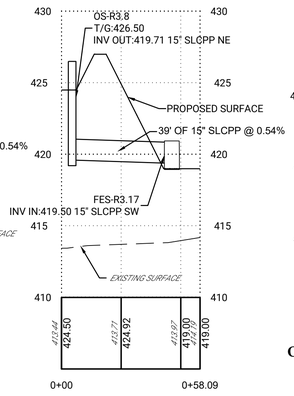
OS-R3.5 TO FES-R3.14 PROFILE



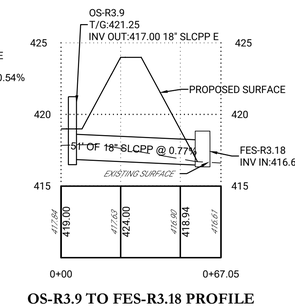
OS-R3.6 TO FES-R3.15 PROFILE



OS-R3.7 TO FES-R3.16 PROFILE



OS-R3.8 TO FES-R3.17 PROFILE



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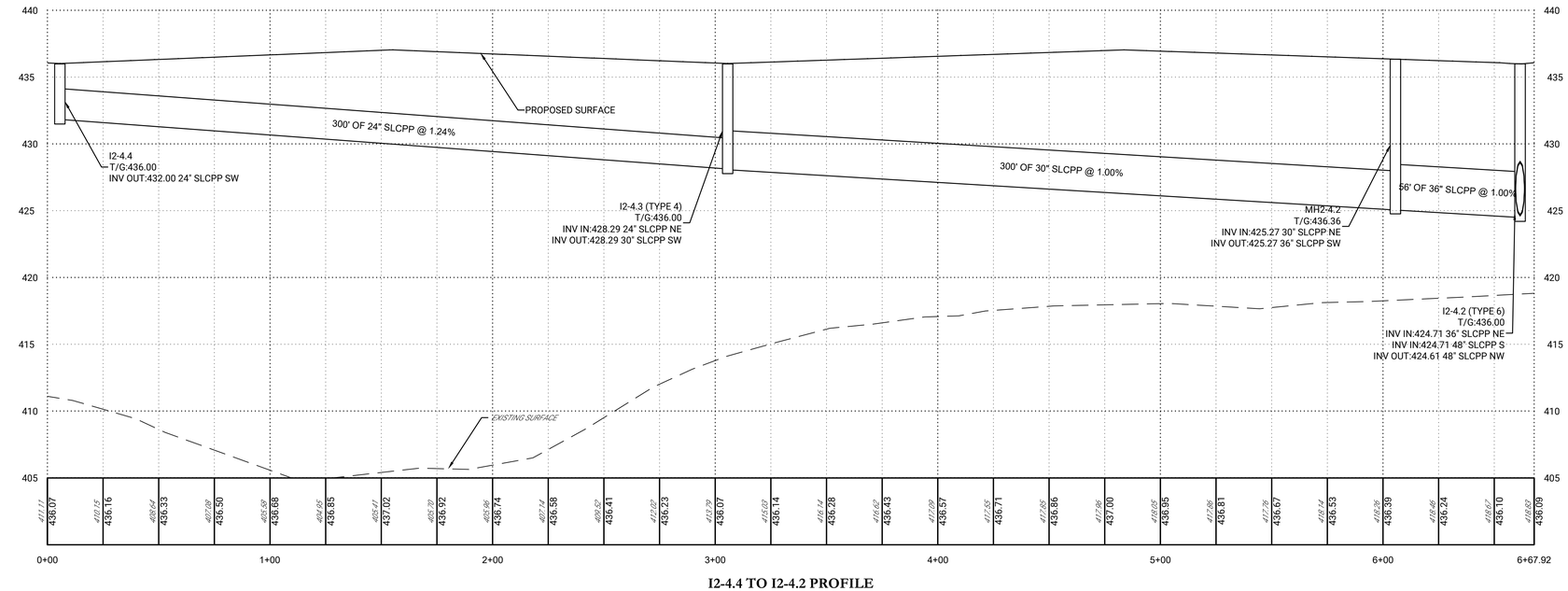
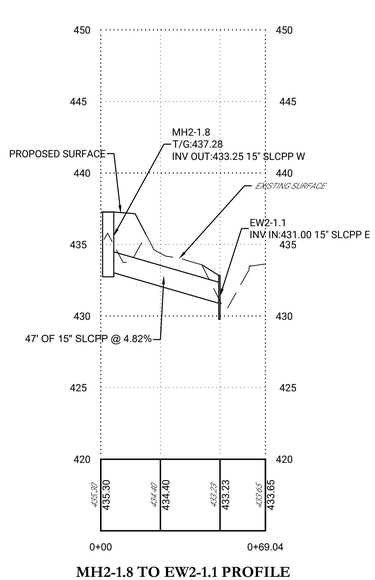


I2-4.4 TO I2-4.2 PROFILE



MH2-1.8 TO EW2-1.1 PROFILE

5 0 5 10 FT
VERTICAL SCALE: 1 INCH = 5 FEET

30 0 30 60 FT
HORIZONTAL SCALE: 1 INCH = 30 FEET

REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT
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2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT
1	11/26/2025	INITIAL SUBMISSION	RJT

ISSUE / REVISIONS

JHR | JHR | JHR | JHR | CHKD

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

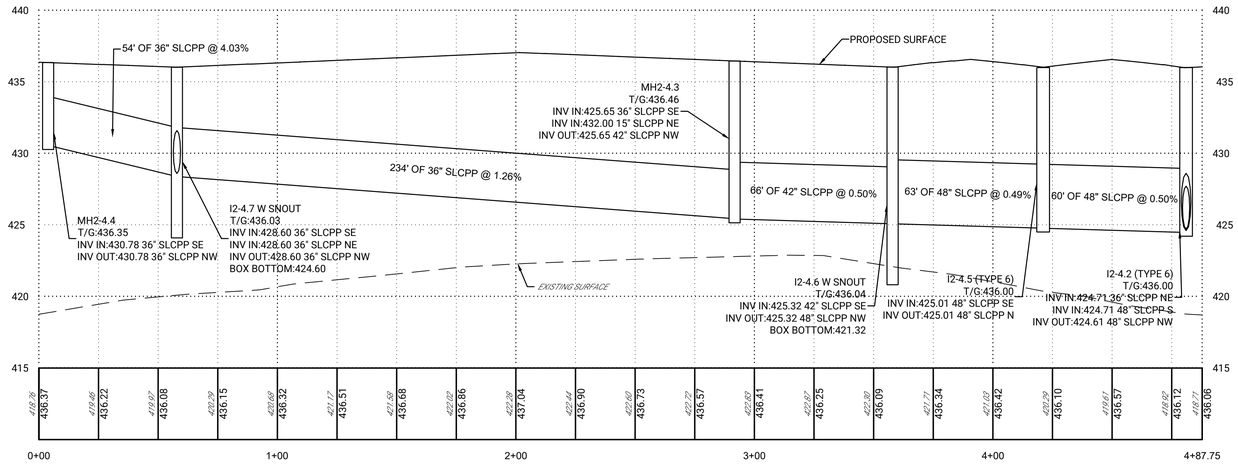
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

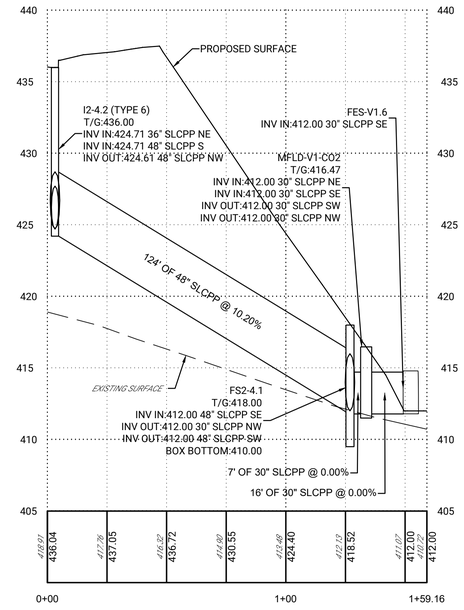
PROFILE PLAN

SHEET NO.

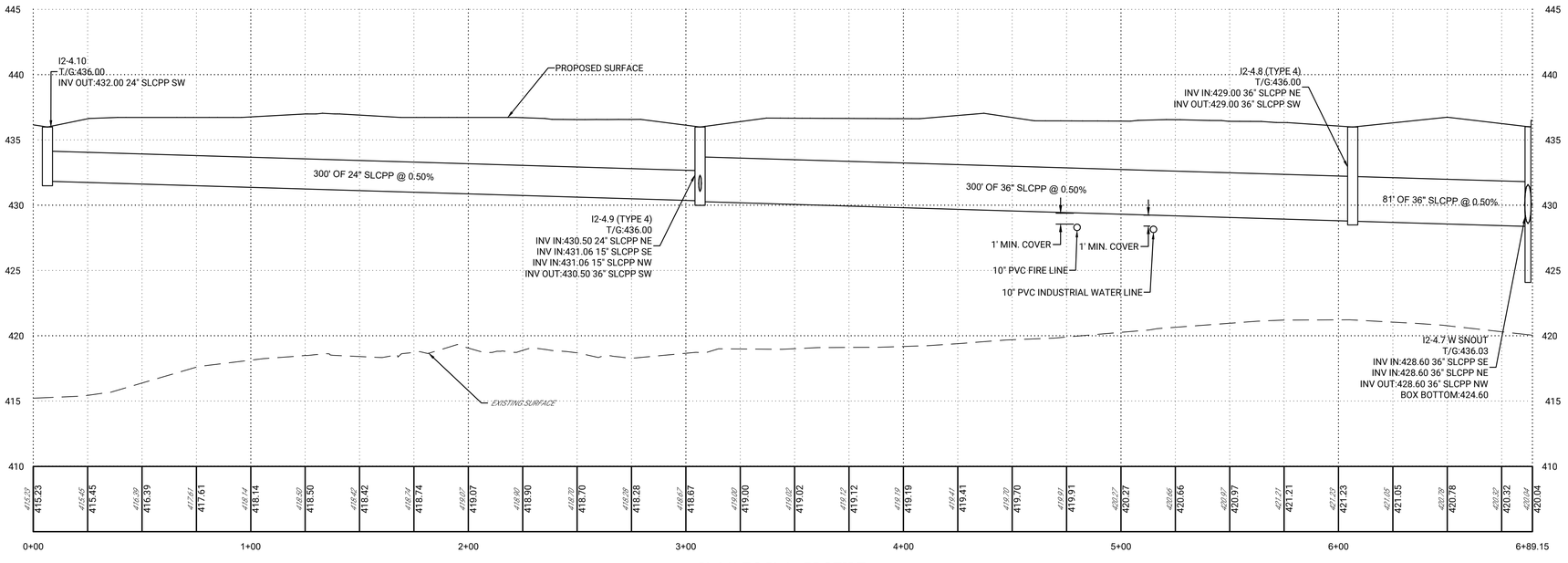
C02 505



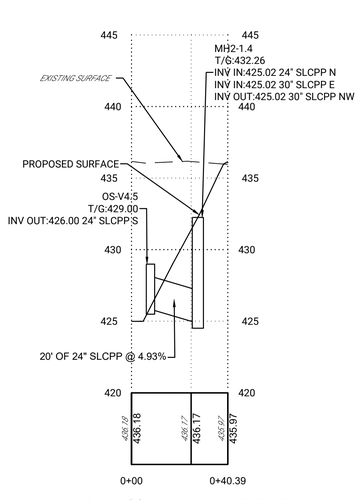
MH2-4.4 TO I2-4.2 PROFILE



I2-4.2 TO FES-V1.6 PROFILE



I2-4.10 TO I2-4.7 PROFILE



OS-V4.5 TO MH2-1.4 PROFILE

5 0 5 10 FT
VERTICAL SCALE: 1 INCH = 5 FEET

30 0 30 60 FT
HORIZONTAL SCALE: 1 INCH = 30 FEET

REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT
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2	3/27/2025	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT
1	11/26/2025	INITIAL SUBMISSION	RJT

ISSUE / REVISIONS

JHR JHR JHR JHR CHKD

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

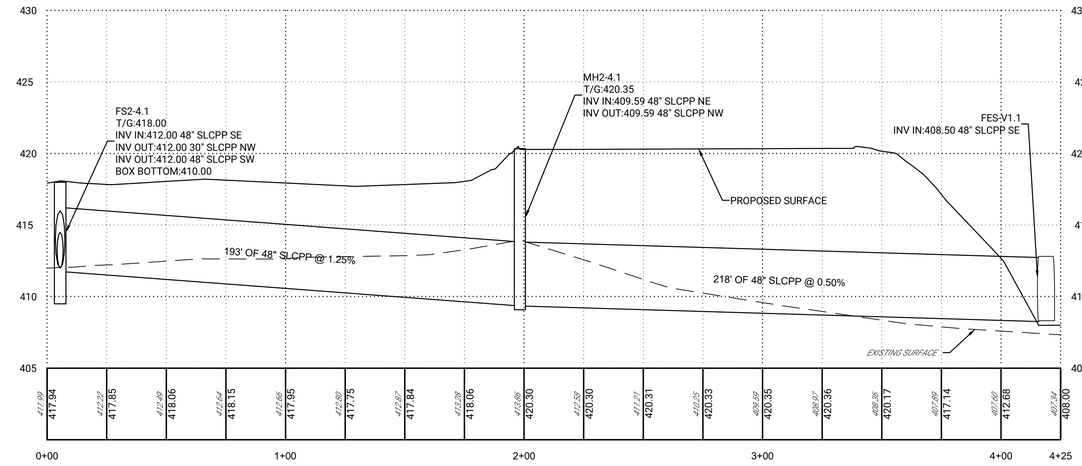
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

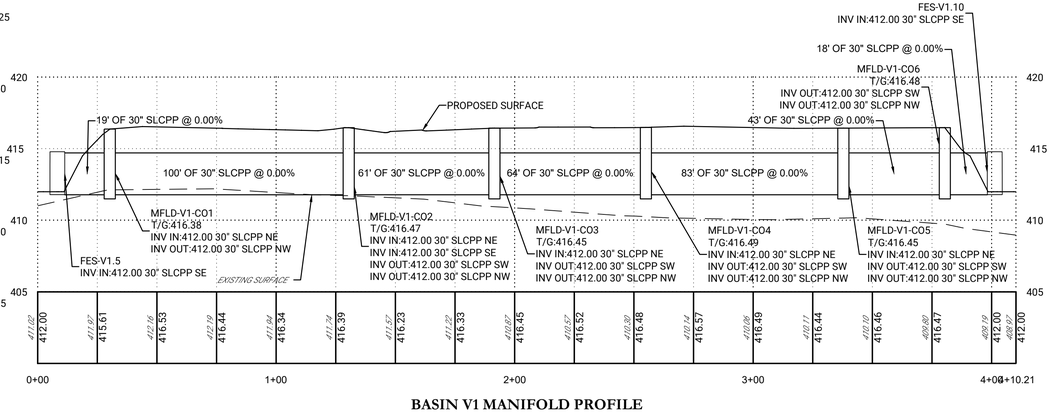
PROFILE PLAN

SHEET NO.

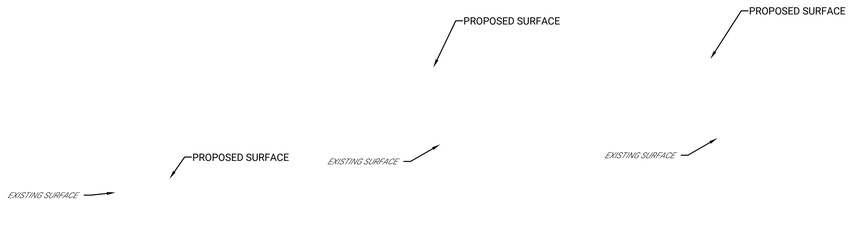
C02 506

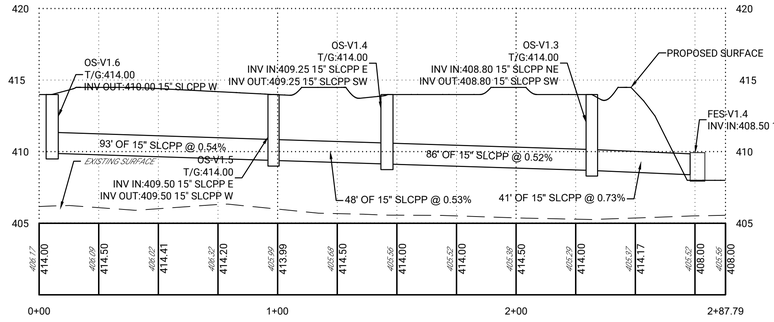


FS2-4.1 TO FES-V1.1 PROFILE

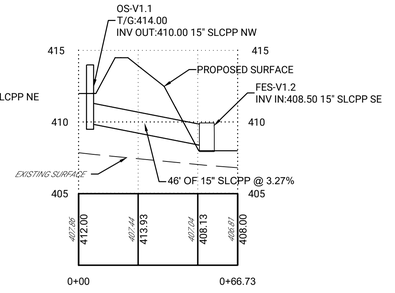


BASIN V1 MANIFOLD PROFILE

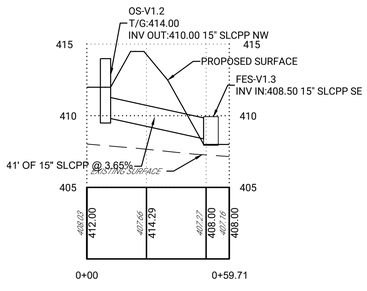




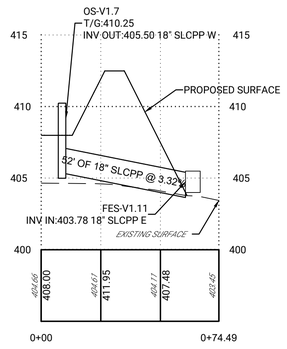
BASIN V1 CELL 3-6 OUTLET PROFILE



OS-V1.1 TO FES-V1.2 PROFILE



OS-V1.2 TO FES-V1.3 PROFILE



OS-V1.7 TO FES-V1.11 PROFILE

5 0 5 10 FT
VERTICAL SCALE: 1 INCH = 5 FEET

30 0 30 60 FT
HORIZONTAL SCALE: 1 INCH = 30 FEET

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT	JHR
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT	JHR
1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

ISSUE / REVISIONS

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

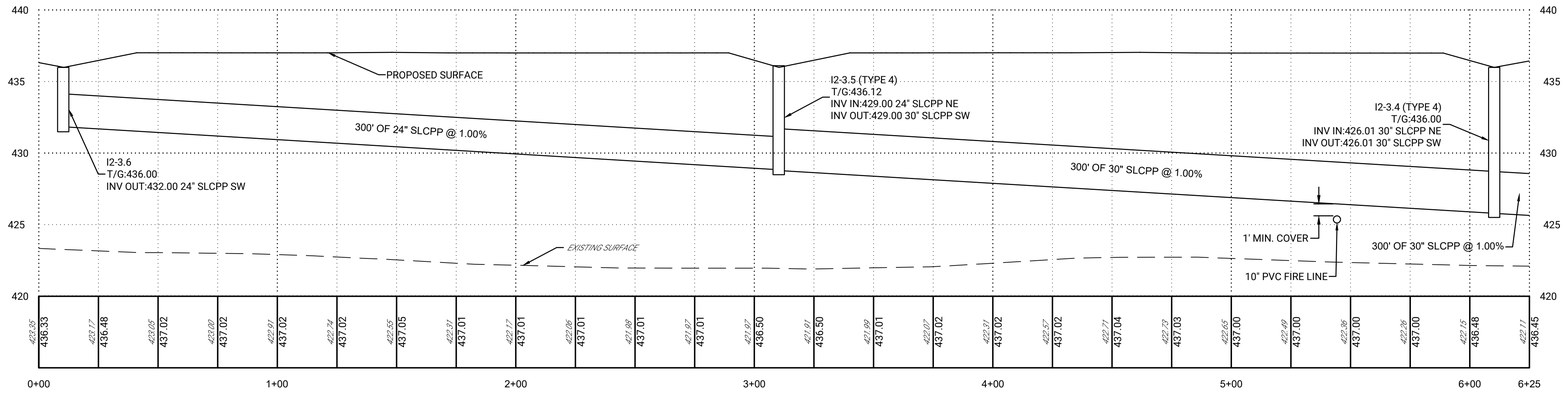
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

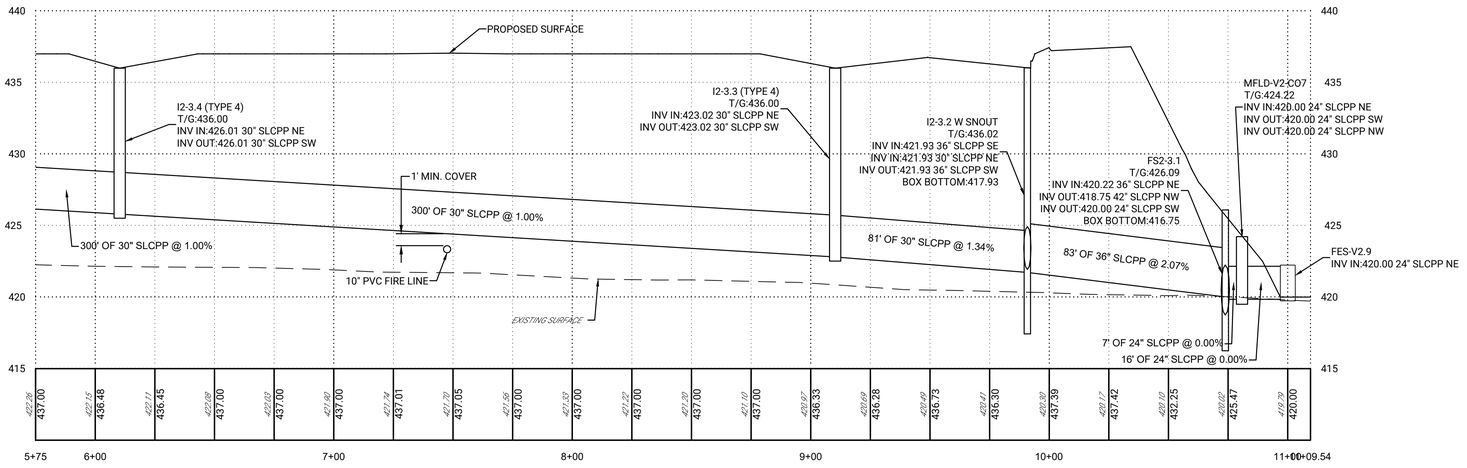
PROFILE PLAN

SHEET NO.

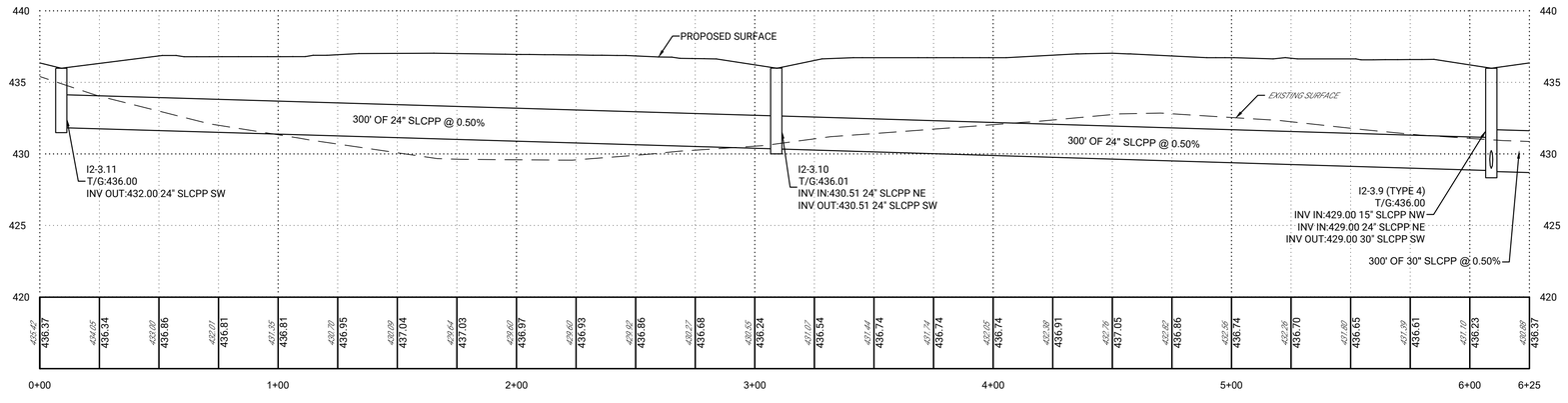
C02 507



I2-3.6 TO I2-3.4 PROFILE



I2-3.4 TO FES-V2.9 PROFILE



I2-3.11 TO I2-3.9 PROFILE

5 0 5 10 FT
VERTICAL SCALE: 1 INCH = 5 FEET

30 0 30 60 FT
HORIZONTAL SCALE: 1 INCH = 30 FEET

REV	DATE	COMMENTS	BY	CHKD
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DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

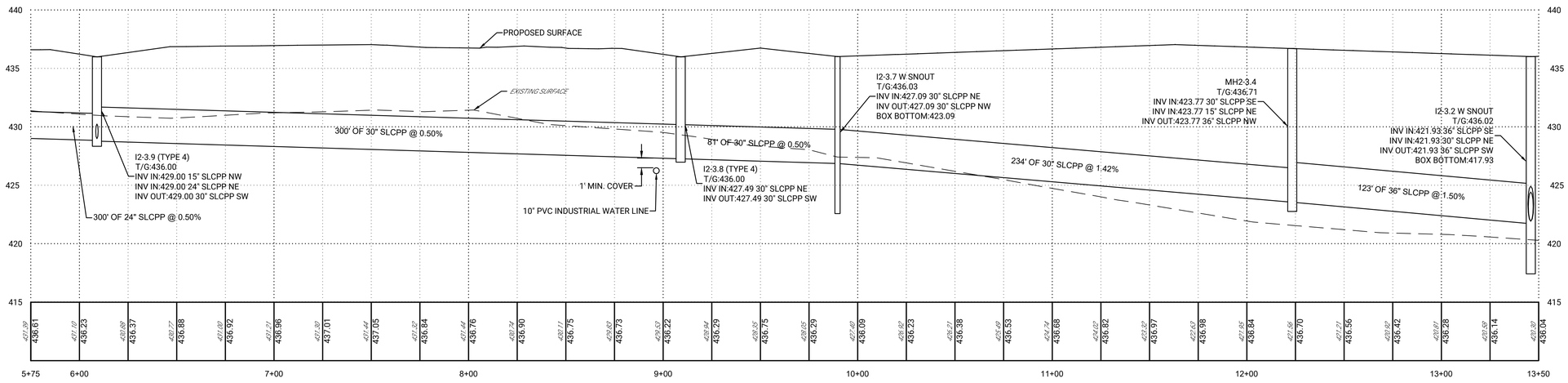
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

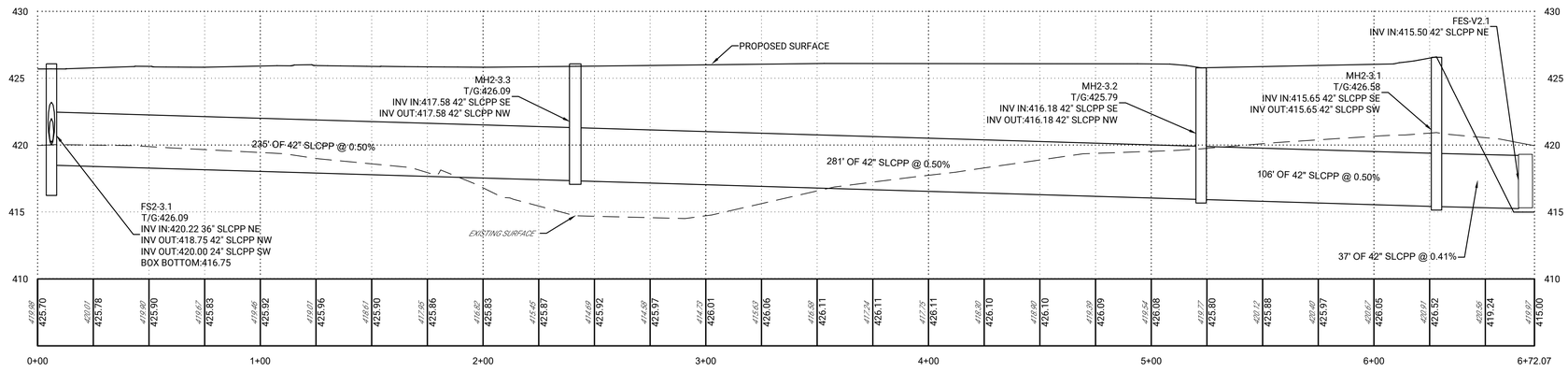
PROFILE PLAN

SHEET NO.

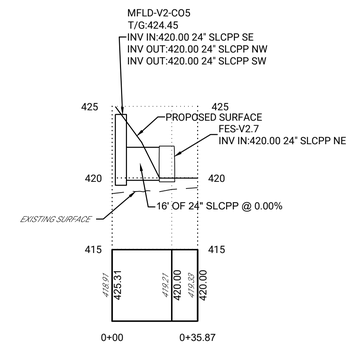
C02 508



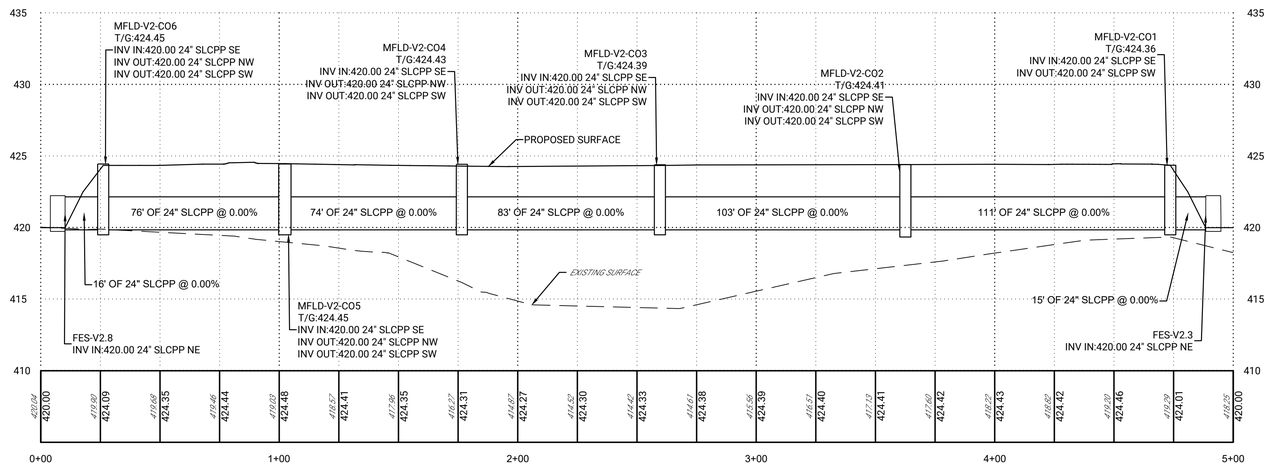
I2-3.9 TO I2-3.2 PROFILE



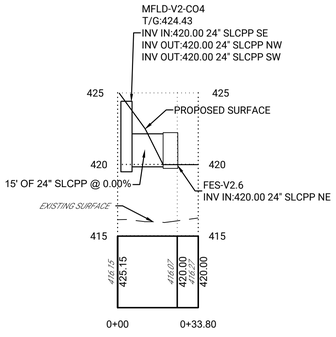
FS2-3.1 TO FES-V2.1 PROFILE



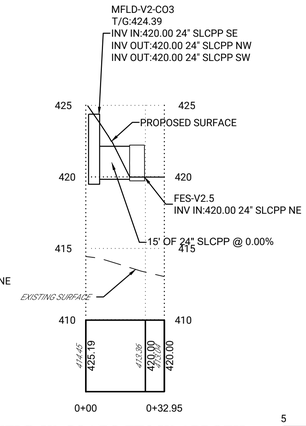
MFLD-V2-CO5 TO FES-V2.7 PROFILE



BASIN V2 MANIFOLD PROFILE



MFLD-V2-CO3 TO FES-V2.5 PROFILE



MFLD-V2-CO4 TO FES-V2.6 PROFIL

5 0 5 10 FT
VERTICAL SCALE: 1 INCH = 5 FEET

30 0 30 60 FT
HORIZONTAL SCALE: 1 INCH = 30 FEET

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4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT
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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

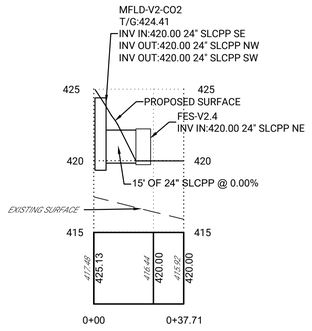
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

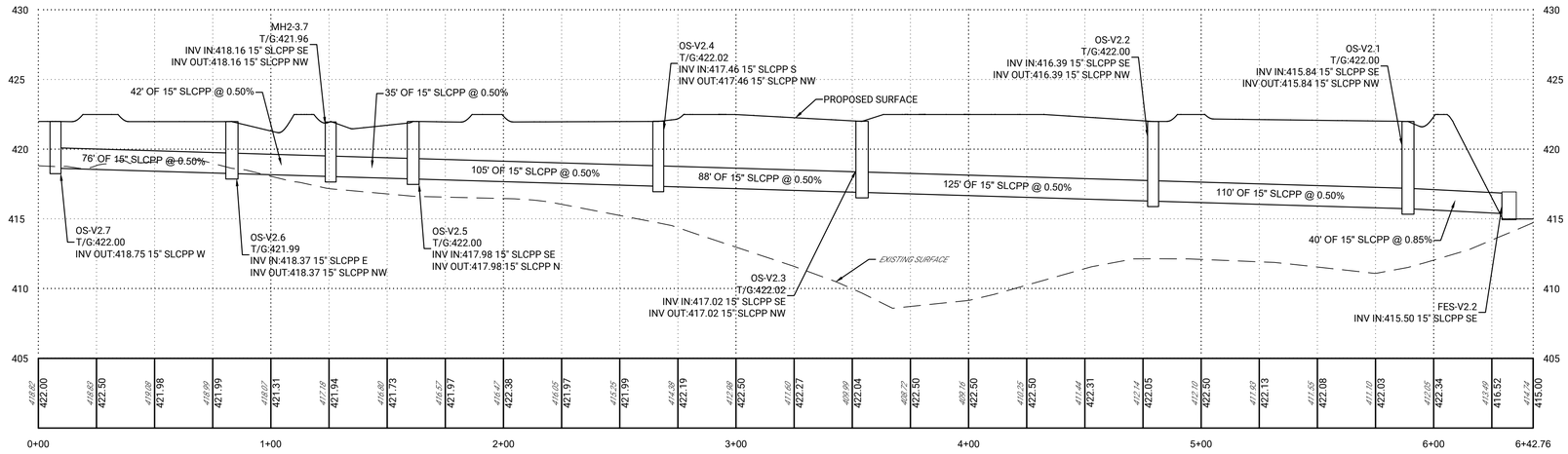
PROFILE PLAN

SHEET NO.

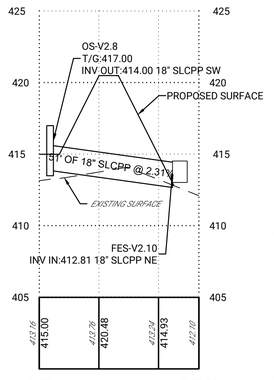
C02 509



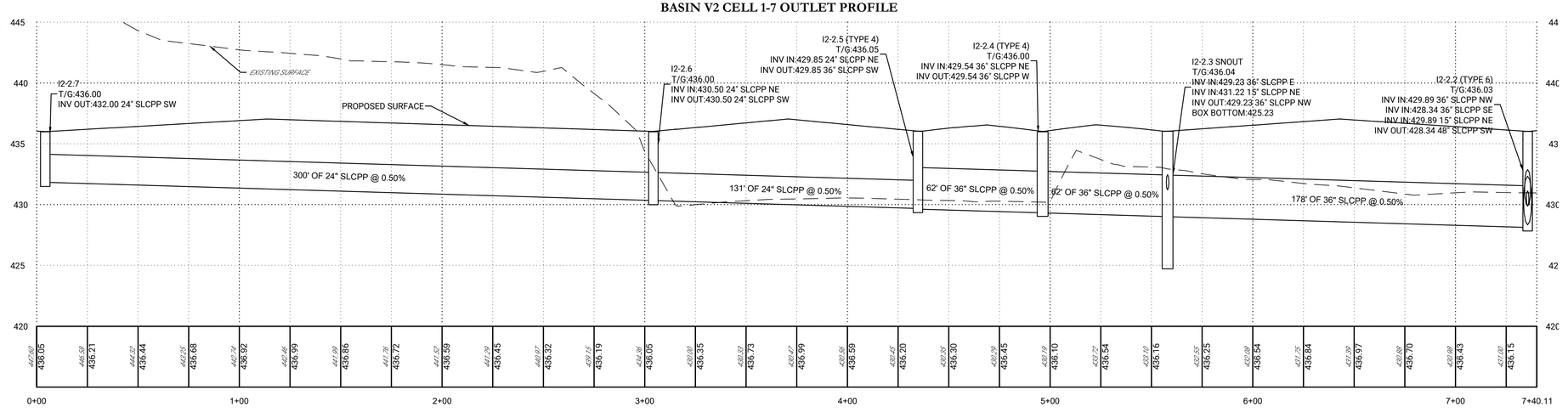
MFLD-V2-CO5 TO FES-V2.4 PROFILE



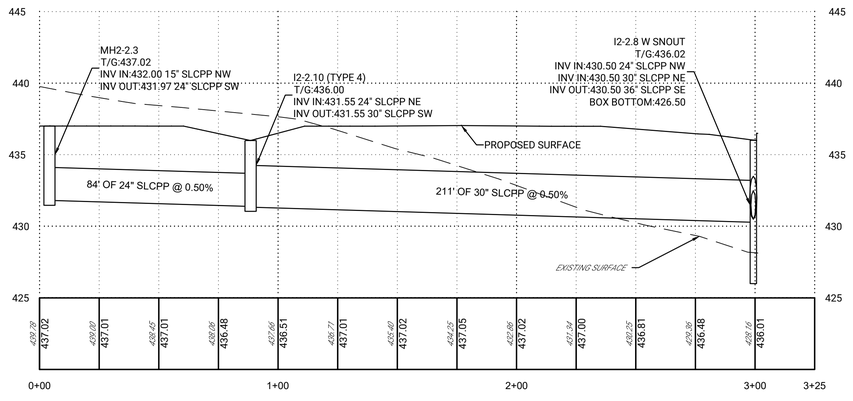
BASIN V2 CELL 1-7 OUTLET PROFILE



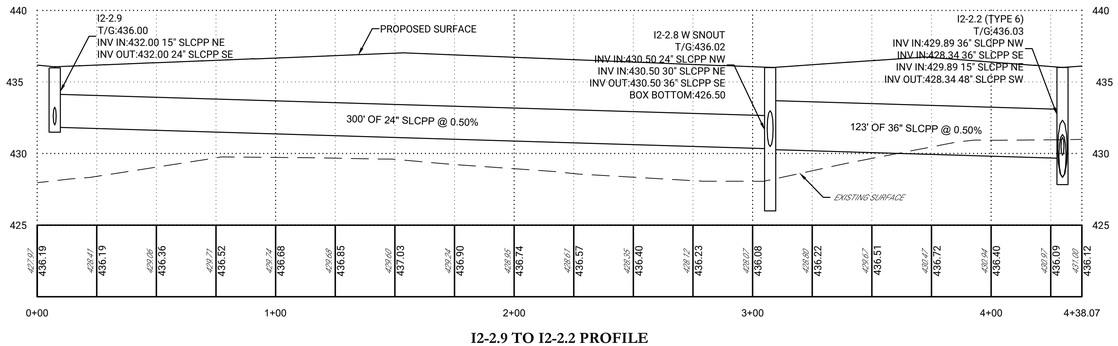
OS-V2-8 TO FES-V2.10 PROFILE



I2-2.7 TO I2-2.2 PROFILE



MH2-2.3 TO I2-2.8 PROFILE



I2-2.9 TO I2-2.2 PROFILE

5 0 5 10 FT
VERTICAL SCALE: 1 INCH = 5 FEET

30 0 30 60 FT
HORIZONTAL SCALE: 1 INCH = 30 FEET

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1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

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DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

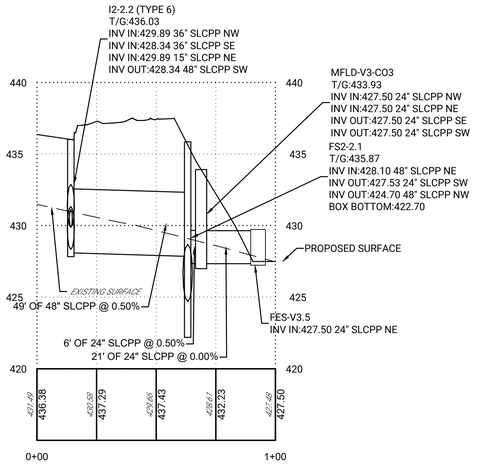
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

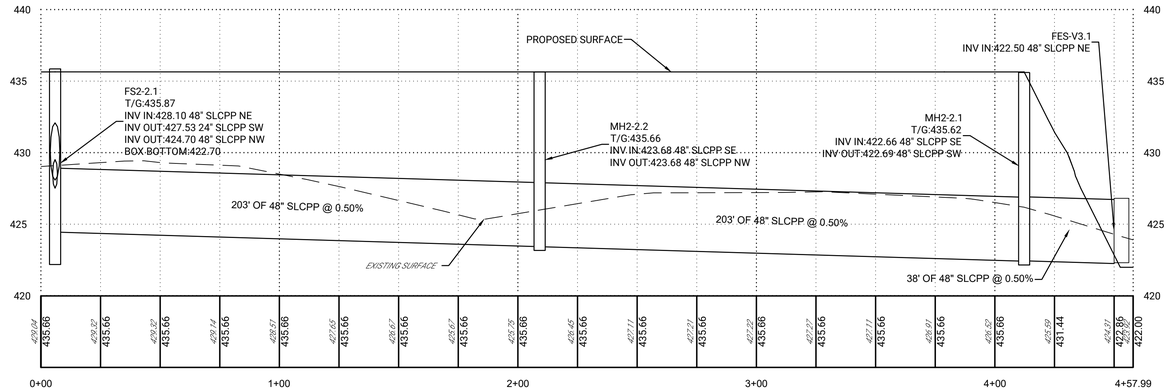
PROFILE PLAN

SHEET NO.

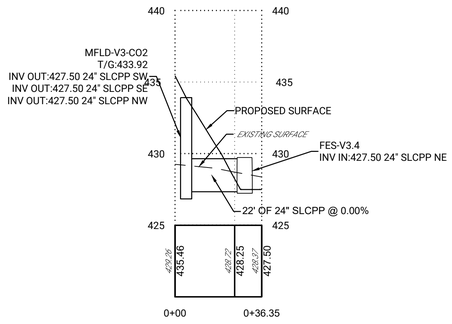
C02 510



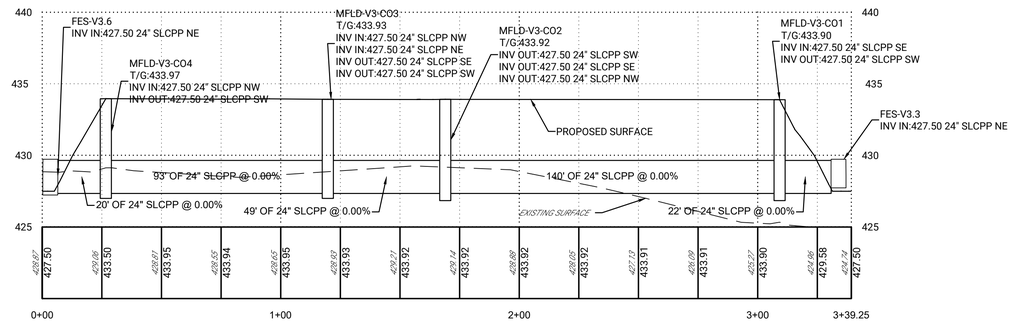
I2-2.2 TO FES-V3.5 PROFILE



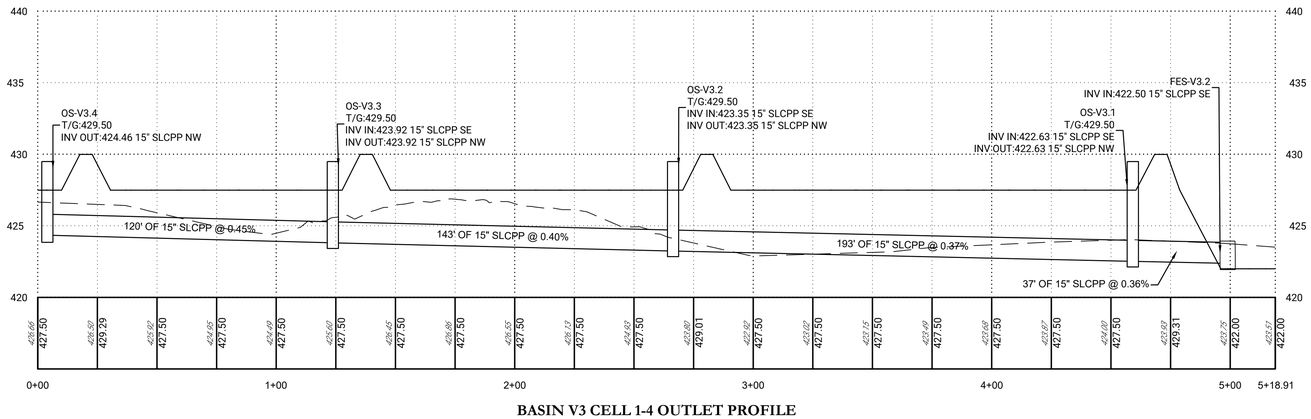
FS2-3.1 TO FES-V3.1 PROFILE



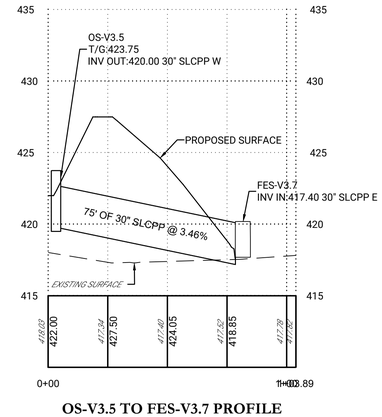
MFLD-V3-CO2 TO FES-V3.4 PROFILE



BASIN V3 MANIFOLD PROFILE



BASIN V3 CELL 1-4 OUTLET PROFILE



OS-V3.5 TO FES-V3.7 PROFILE

5 0 5 10 FT
VERTICAL SCALE: 1 INCH = 5 FEET

30 0 30 60 FT
HORIZONTAL SCALE: 1 INCH = 30 FEET

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

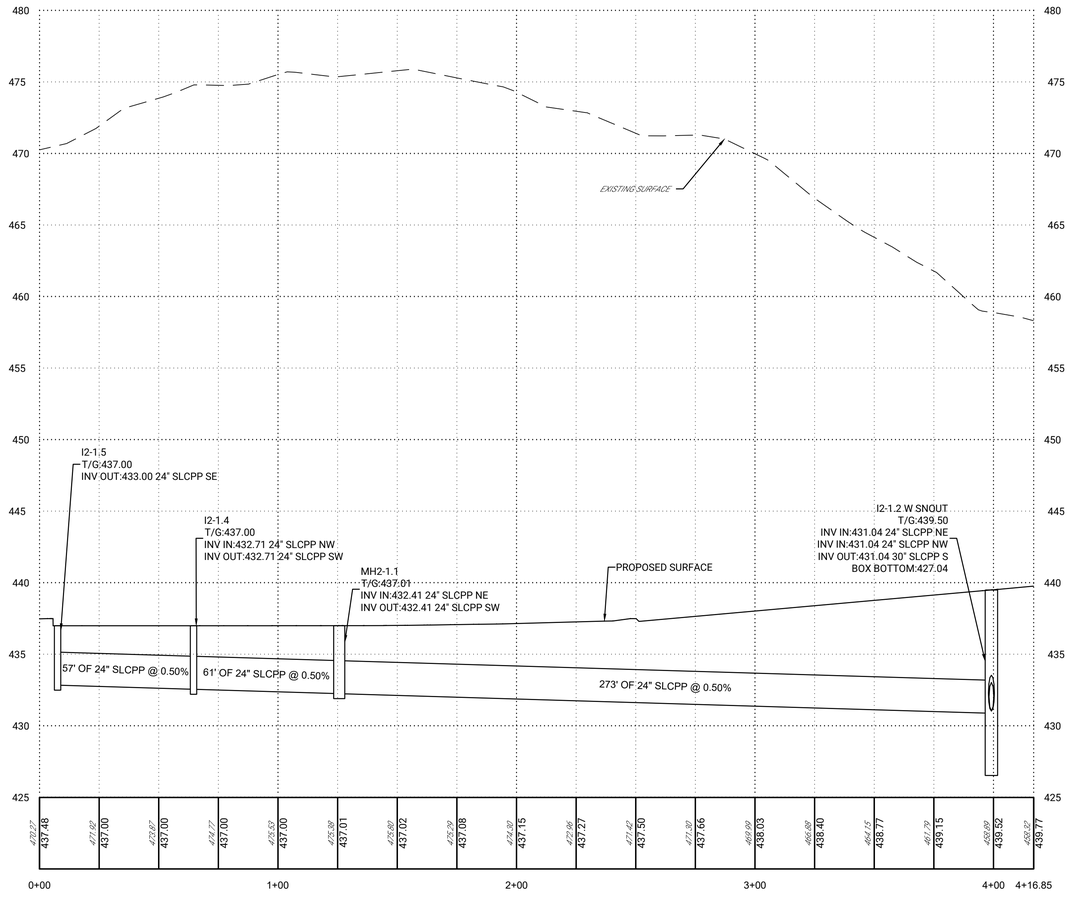
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

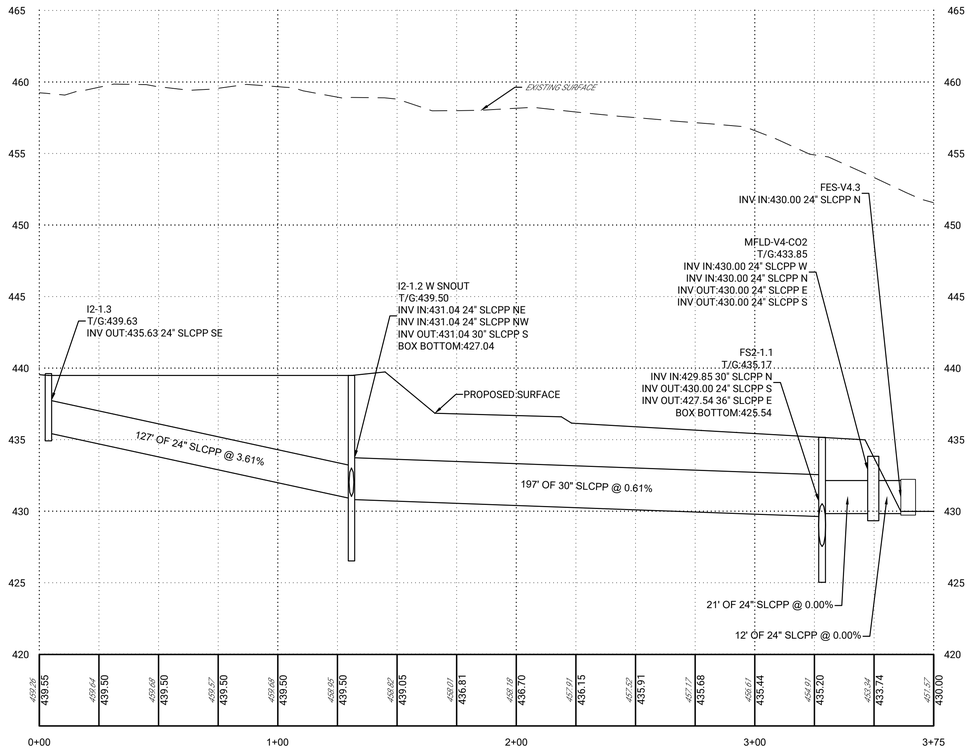
PROFILE PLAN

SHEET NO.

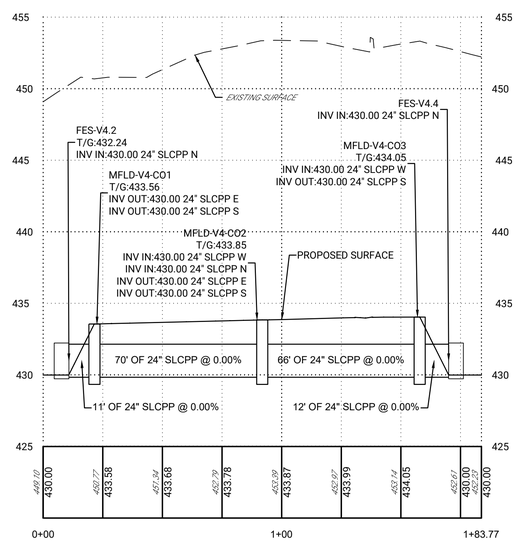
C02 511



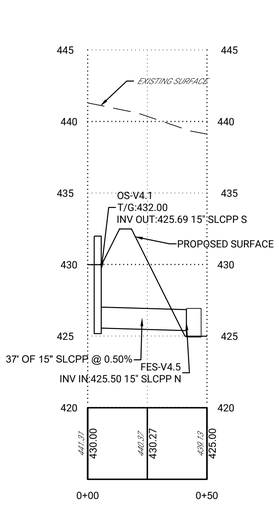
I2-1.5 TO I2-1.2 PROFILE



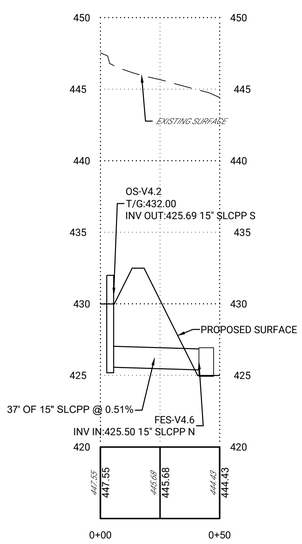
I2-1.3 TO FES-V4.3 PROFILE



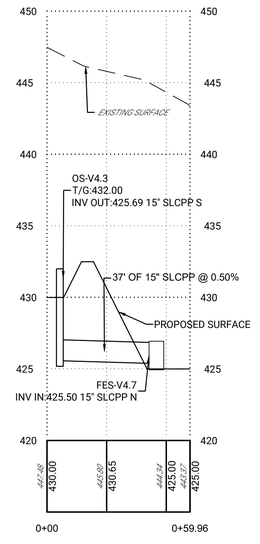
BASIN V4 MANIFOLD PROFILE



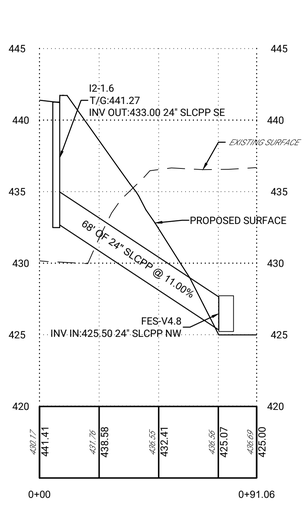
OS-V4.1 TO FES-V4.5 PROFILE



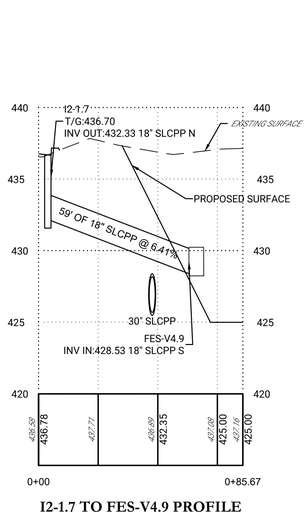
OS-V4.2 TO FES-V4.6 PROFILE



OS-V4.3 TO FES-V4.7 PROFILE



I2-1.6 TO FES-V4.8 PROFILE



I2-1.7 TO FES-V4.9 PROFILE

5 0 5 10 FT
VERTICAL SCALE: 1 INCH = 5 FEET

30 0 30 60 FT
HORIZONTAL SCALE: 1 INCH = 30 FEET

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MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

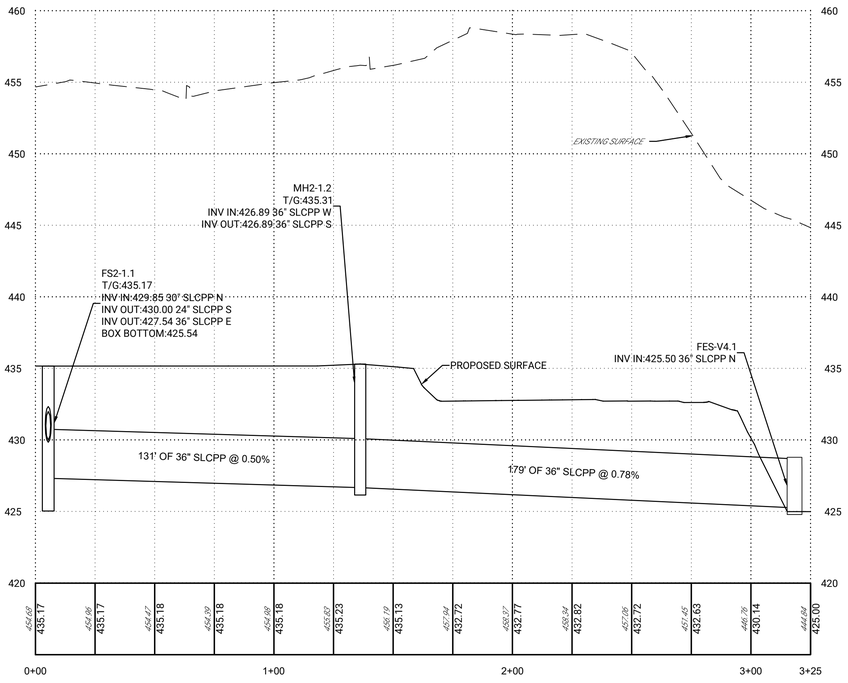
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

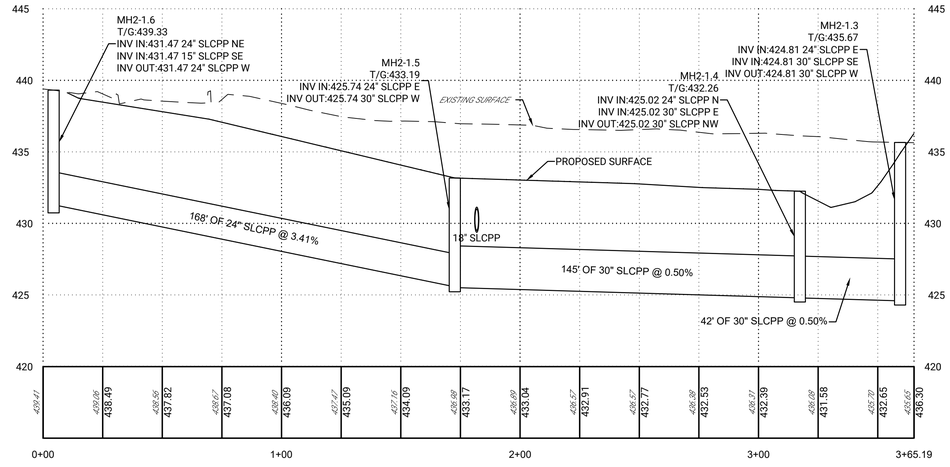
PROFILE PLAN

SHEET NO.

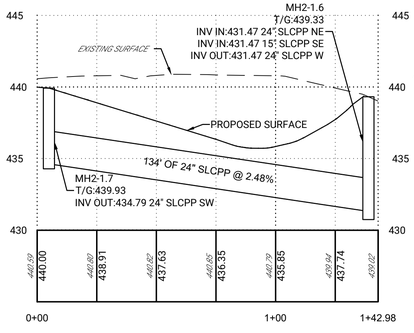
C02 512



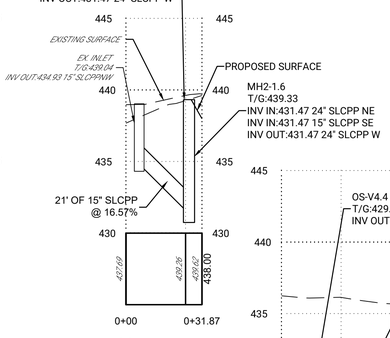
FS2-1.1 TO FES-V4.1 PROFILE



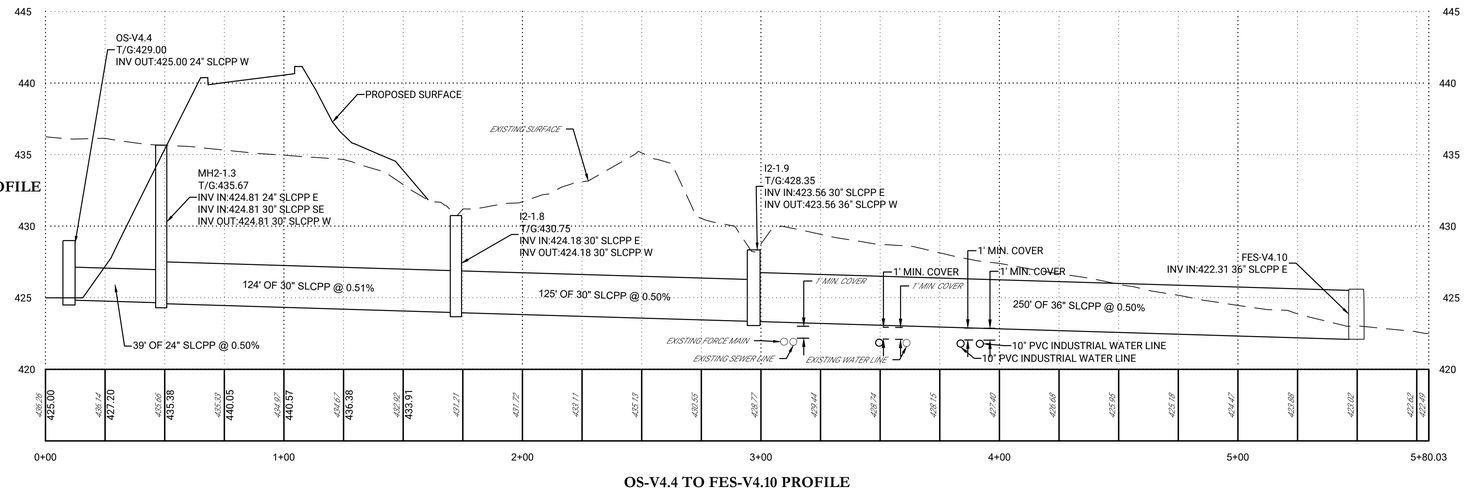
MH2-1.6 TO MH2-1.3 PROFILE



MH2-1.7 TO MH2-1.6 PROFILE



EX. I-25.1 TO MH2-1.6 PROFILE



OS-V4.4 TO FES-V4.10 PROFILE

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VERTICAL SCALE: 1 INCH = 5 FEET

30 0 30 60 FT
HORIZONTAL SCALE: 1 INCH = 30 FEET

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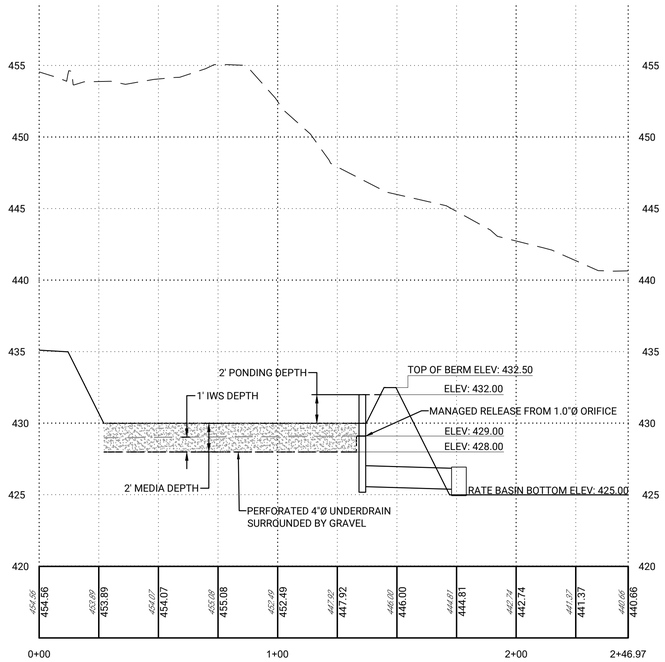
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

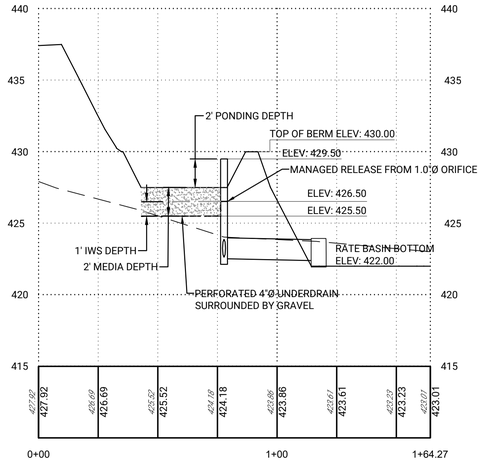
PROFILE PLAN

SHEET NO.

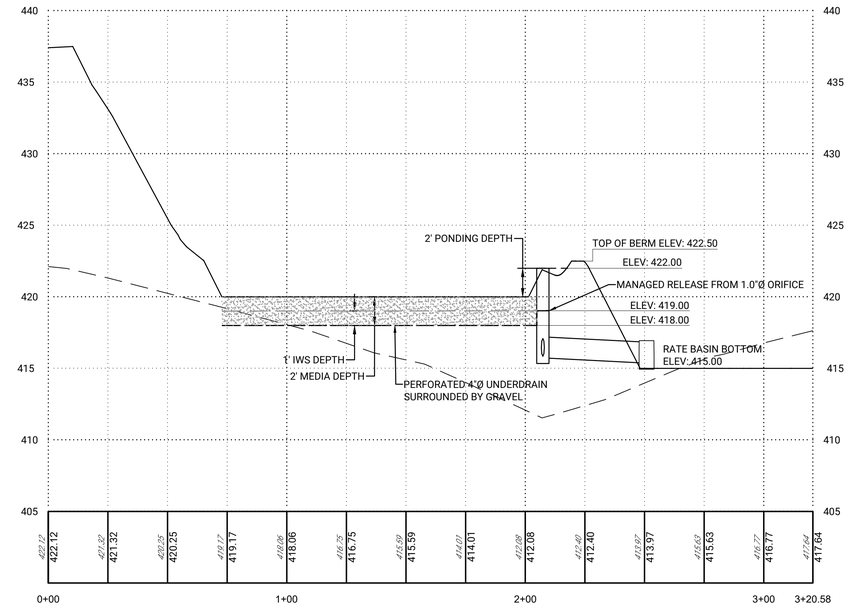
C02 513



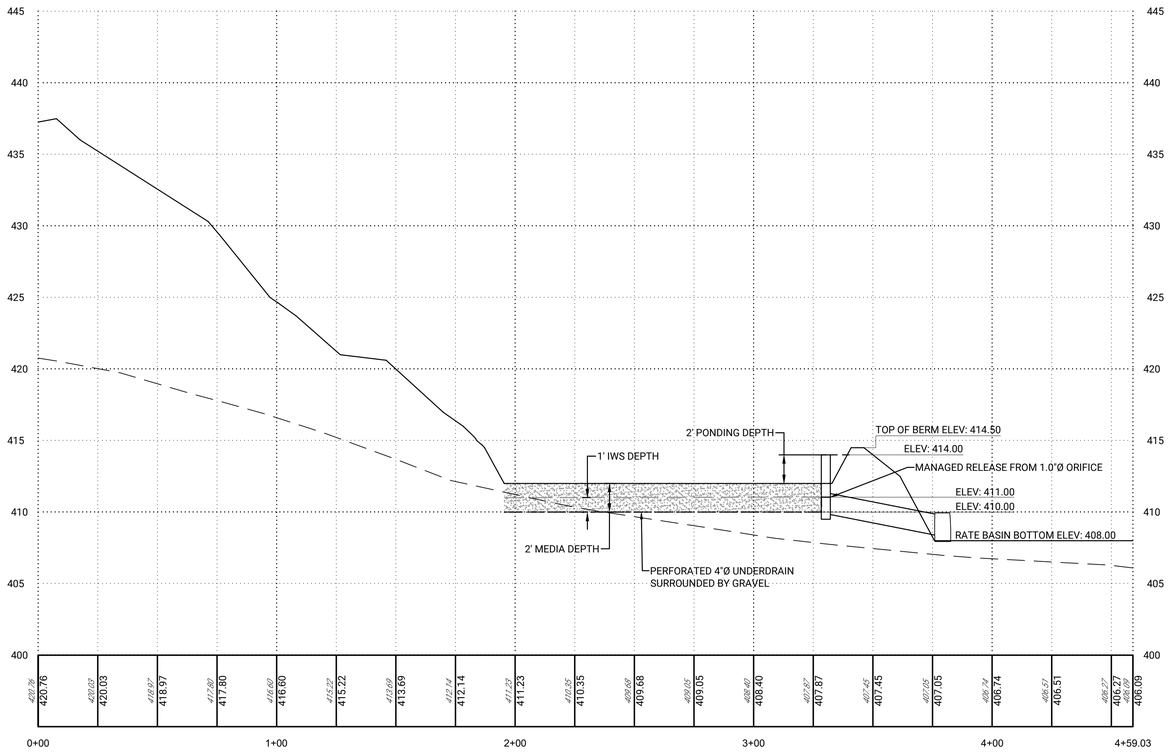
BASIN V4 MRC CELL PROFILE PROFILE



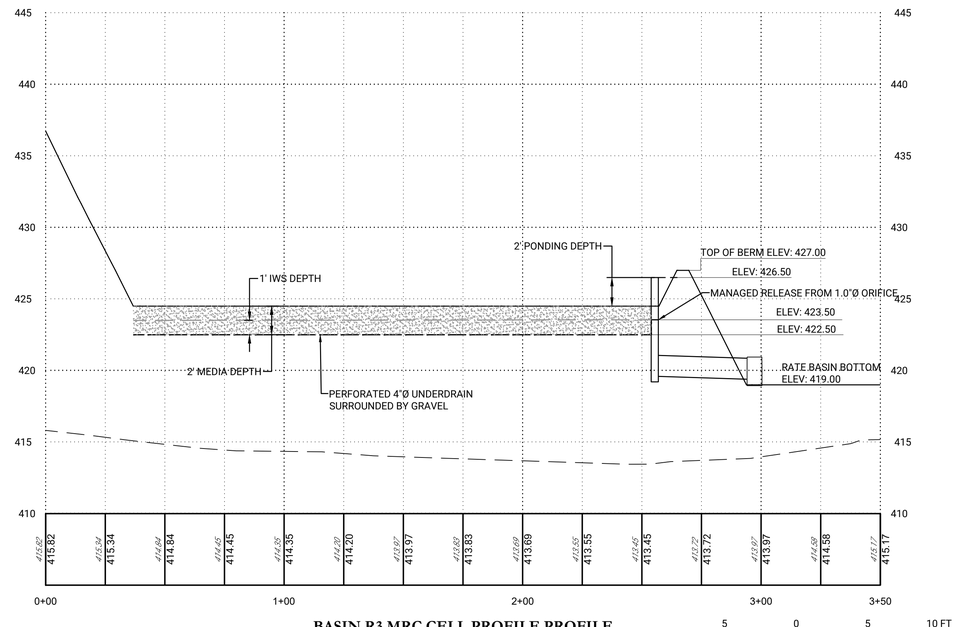
BASIN V3 MRC CELL PROFILE PROFILE



BASIN V2 MRC CELL PROFILE PROFILE



BASIN V1 MRC CELL PROFILE PROFILE



BASIN R3 MRC CELL PROFILE PROFILE

5 0 5 10 FT
VERTICAL SCALE: 1 INCH = 5 FEET

30 0 30 60 FT
HORIZONTAL SCALE: 1 INCH = 30 FEET

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MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

PROFILE PLAN

SHEET NO.

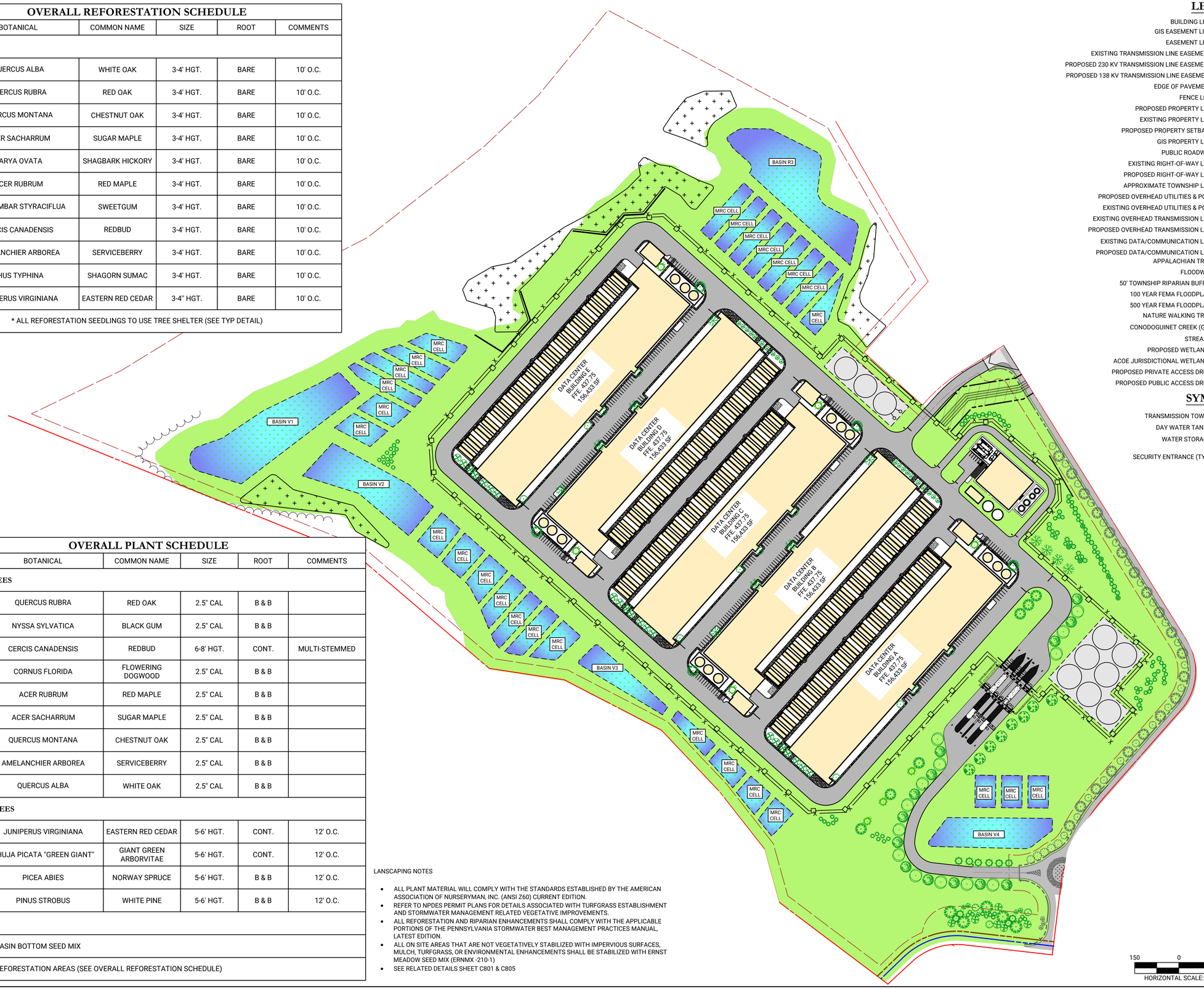
C02 514

OVERALL REFORESTATION SCHEDULE

QTY	BOTANICAL	COMMON NAME	SIZE	ROOT	COMMENTS
210	QUERCUS ALBA	WHITE OAK	3-4' HGT.	BARE	10' O.C.
210	QUERCUS RUBRA	RED OAK	3-4' HGT.	BARE	10' O.C.
210	QUERCUS MONTANA	CHESTNUT OAK	3-4' HGT.	BARE	10' O.C.
210	ACER SACHARRUM	SUGAR MAPLE	3-4' HGT.	BARE	10' O.C.
210	CARYA OVATA	SHAGBARK HICKORY	3-4' HGT.	BARE	10' O.C.
140	ACER RUBRUM	RED MAPLE	3-4' HGT.	BARE	10' O.C.
140	LIQUIDAMBAR STYRACIFLUA	SWEETGUM	3-4' HGT.	BARE	10' O.C.
140	CERCIS CANADENSIS	REDBUD	3-4' HGT.	BARE	10' O.C.
140	AMELANCHIER ARBOREA	SERVICEBERRY	3-4' HGT.	BARE	10' O.C.
140	RHUS TYPHINA	SHAGORN SUMAC	3-4' HGT.	BARE	10' O.C.
175	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	3-4'' HGT.	BARE	10' O.C.
* ALL REFORESTATION SEEDLINGS TO USE TREE SHELTER (SEE TYP DETAIL)					

OVERALL PLANT SCHEDULE

KEY	QTY	BOTANICAL	COMMON NAME	SIZE	ROOT	COMMENTS
DECIDUOUS TREES						
	16	QUERCUS RUBRA	RED OAK	2.5" CAL	B & B	
	15	NYSSA SYLVATICA	BLACK GUM	2.5" CAL	B & B	
	27	CERCIS CANADENSIS	REDBUD	6-8' HGT.	CONT.	MULTI-STEMMED
	8	CORNUS FLORIDA	FLOWERING DOGWOOD	2.5" CAL	B & B	
	13	ACER RUBRUM	RED MAPLE	2.5" CAL	B & B	
	8	ACER SACHARRUM	SUGAR MAPLE	2.5" CAL	B & B	
	12	QUERCUS MONTANA	CHESTNUT OAK	2.5" CAL	B & B	
	25	AMELANCHIER ARBOREA	SERVICEBERRY	2.5" CAL	B & B	
	13	QUERCUS ALBA	WHITE OAK	2.5" CAL	B & B	
EVERGREEN TREES						
	66	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	5-6' HGT.	CONT.	12' O.C.
	148	THUJA PICATA "GREEN GIANT"	GIANT GREEN ARBORVITAE	5-6' HGT.	CONT.	12' O.C.
	53	PICEA ABIES	NORWAY SPRUCE	5-6' HGT.	B & B	12' O.C.
	6	PINUS STROBUS	WHITE PINE	5-6' HGT.	B & B	12' O.C.
BASIN						
		BASIN BOTTOM SEED MIX				
		REFORESTATION AREAS (SEE OVERALL REFORESTATION SCHEDULE)				



LANSCAPING NOTES

- ALL PLANT MATERIAL WILL COMPLY WITH THE STANDARDS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN, INC. (ANSI Z60) CURRENT EDITION.
- REFER TO NPDES PERMIT PLANS FOR DETAILS ASSOCIATED WITH TURFGRASS ESTABLISHMENT AND STORMWATER MANAGEMENT RELATED VEGETATIVE IMPROVEMENTS.
- ALL REFORESTATION AND RIPARIAN ENHANCEMENTS SHALL COMPLY WITH THE APPLICABLE PORTIONS OF THE PENNSYLVANIA STORMWATER BEST MANAGEMENT PRACTICES MANUAL, LATEST EDITION.
- ALL ON SITE AREAS THAT ARE NOT VEGETATIVELY STABILIZED WITH IMPERVIOUS SURFACES, MULCH, TURFGRASS, OR ENVIRONMENTAL ENHANCEMENTS SHALL BE STABILIZED WITH ERNST MEADOW SEED MIX (ERNMX -210-1)
- SEE RELATED DETAILS SHEET C801 & C805

LEGEND

- BUILDING LINE
- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
- PROPOSED 230 KV TRANSMISSION LINE EASEMENT
- PROPOSED 138 KV TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- FENCE LINE — X
- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- GIS PROPERTY LINE
- PUBLIC ROADWAY
- EXISTING RIGHT-OF-WAY LINE
- PROPOSED RIGHT-OF-WAY LINE
- APPROXIMATE TOWNSHIP LINE
- PROPOSED OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD TRANSMISSION LINE — OH-TR
- PROPOSED OVERHEAD TRANSMISSION LINE — OH-TR
- EXISTING DATA/COMMUNICATION LINE — 0
- PROPOSED DATA/COMMUNICATION LINE — 0
- APPALACHIAN TRAIL
- FLOODWAY — FW
- 50' TOWNSHIP RIPARIAN BUFFER — RB1
- 100 YEAR FEMA FLOODPLAIN — 100-YR
- 500 YEAR FEMA FLOODPLAIN — 500-YR
- NATURE WALKING TRAIL
- CONODOGUINET CREEK (GIS)
- STREAMS
- PROPOSED WETLANDS
- ACOE JURISDICTIONAL WETLANDS
- PROPOSED PRIVATE ACCESS DRIVE
- PROPOSED PUBLIC ACCESS DRIVE

SYMBOLS

- TRANSMISSION TOWER
- DAY WATER TANKS
- WATER STORAGE
- SECURITY ENTRANCE (TYP)

REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT JHR
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT JHR
1	11/26/2025	INITIAL SUBMISSION	RJT JHR

ISSUE / REVISIONS

LIVIC civil
1015 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987.1993
www.liviccivil.com

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

OVERALL LANDSCAPING PLAN

SHEET NO.

C02 601

PLANT SCHEDULE

KEY	BOTANICAL	COMMON NAME	SIZE	ROOT
DECIDUOUS TREES				
	QUERCUS RUBRA	RED OAK	2.5" CAL	B & B
	NYSSA SYLVATICA	BLACK GUM	2.5" CAL	B & B
	CORNUS FLORIDA	FLOWERING DOGWOOD	2.5" CAL	B & B
	VIBURNUM RHYTIDOPHYLLUM	LEATHERLEAF VIBURNUM	2.5" CAL	B & B
	QUERCUS MONTANA	CHESTNUT OAK	2.5" CAL	B & B

REFORESTATION AREA SEE SCHEDULE ON COVER SHEET

REFORESTATION AREA SEE SCHEDULE ON COVER SHEET

REFORESTATION AREA SEE SCHEDULE ON COVER SHEET

REFORESTATION AREA SEE SCHEDULE

SCM11 - MRC CELL 3

BASIN R3

MRC CELL

CONTINUE ON SHEET C02 603

CONTINUE ON SHEET C02 604

STOP SIGN (R1-1)

STOP SIGN (R1-1)

DATA CENTER BUILDING E FFE 437.75 156,433 SF

50 0 50 100 FT

HORIZONTAL SCALE: 1 INCH = 50 FEET

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
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2	3/27/2025	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT	JHR
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MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

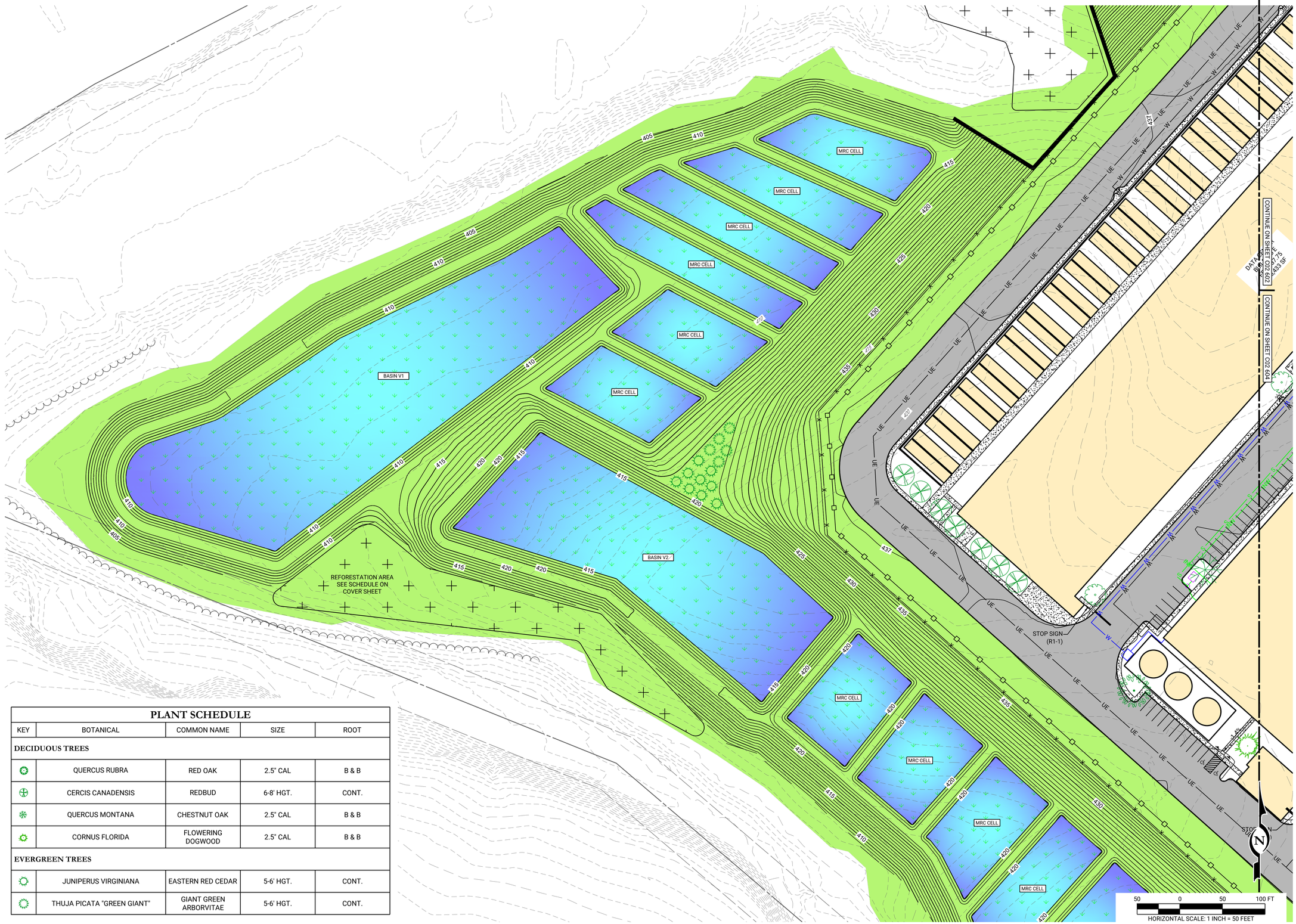
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

LANDSCAPING PLAN

SHEET NO.

C02 602



PLANT SCHEDULE

KEY	BOTANICAL	COMMON NAME	SIZE	ROOT
DECIDUOUS TREES				
	QUERCUS RUBRA	RED OAK	2.5" CAL	B & B
	CERCIS CANADENSIS	REDBUD	6-8' HGT.	CONT.
	QUERCUS MONTANA	CHESTNUT OAK	2.5" CAL	B & B
	CORNUS FLORIDA	FLOWERING DOGWOOD	2.5" CAL	B & B
EVERGREEN TREES				
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	5-6' HGT.	CONT.
	THUJA PICATA "GREEN GIANT"	GIANT GREEN ARBORVITAE	5-6' HGT.	CONT.

REV	DATE	COMMENTS	BY	CHKD
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PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

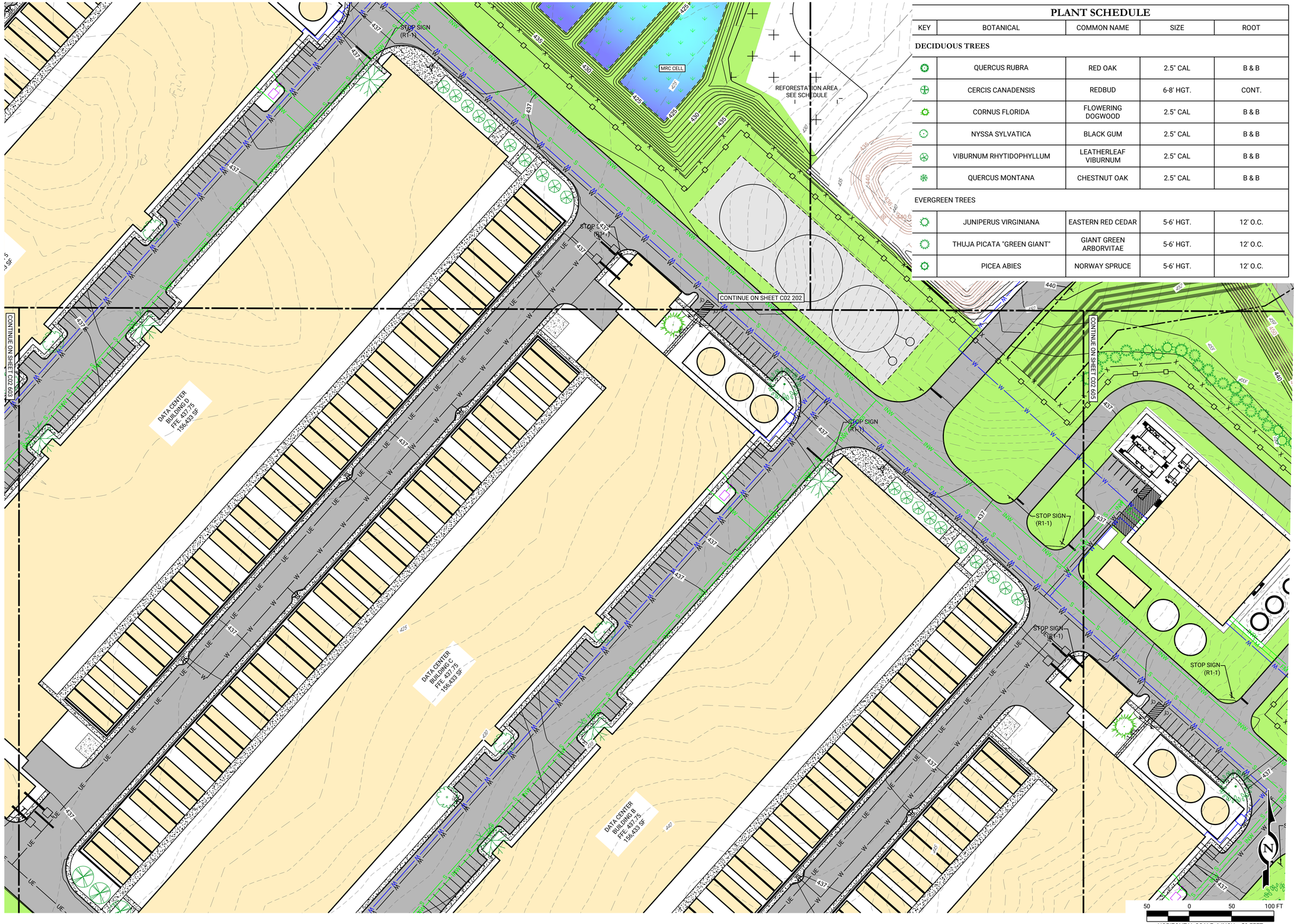
LANDSCAPING PLAN

SHEET NO.

C02 603

PLANT SCHEDULE

KEY	BOTANICAL	COMMON NAME	SIZE	ROOT
DECIDUOUS TREES				
	QUERCUS RUBRA	RED OAK	2.5" CAL	B & B
	CERCIS CANADENSIS	REDBUD	6-8' HGT.	CONT.
	CORNUS FLORIDA	FLOWERING DOGWOOD	2.5" CAL	B & B
	NYSSA SYLVATICA	BLACK GUM	2.5" CAL	B & B
	VIBURNUM RHYTIDOPHYLLUM	LEATHERLEAF VIBURNUM	2.5" CAL	B & B
	QUERCUS MONTANA	CHESTNUT OAK	2.5" CAL	B & B
EVERGREEN TREES				
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	5-6' HGT.	12' O.C.
	THUJA PICATA "GREEN GIANT"	GIANT GREEN ARBORVITAE	5-6' HGT.	12' O.C.
	PICEA ABIES	NORWAY SPRUCE	5-6' HGT.	12' O.C.



REV	DATE	COMMENTS	BY	CHKD
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PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

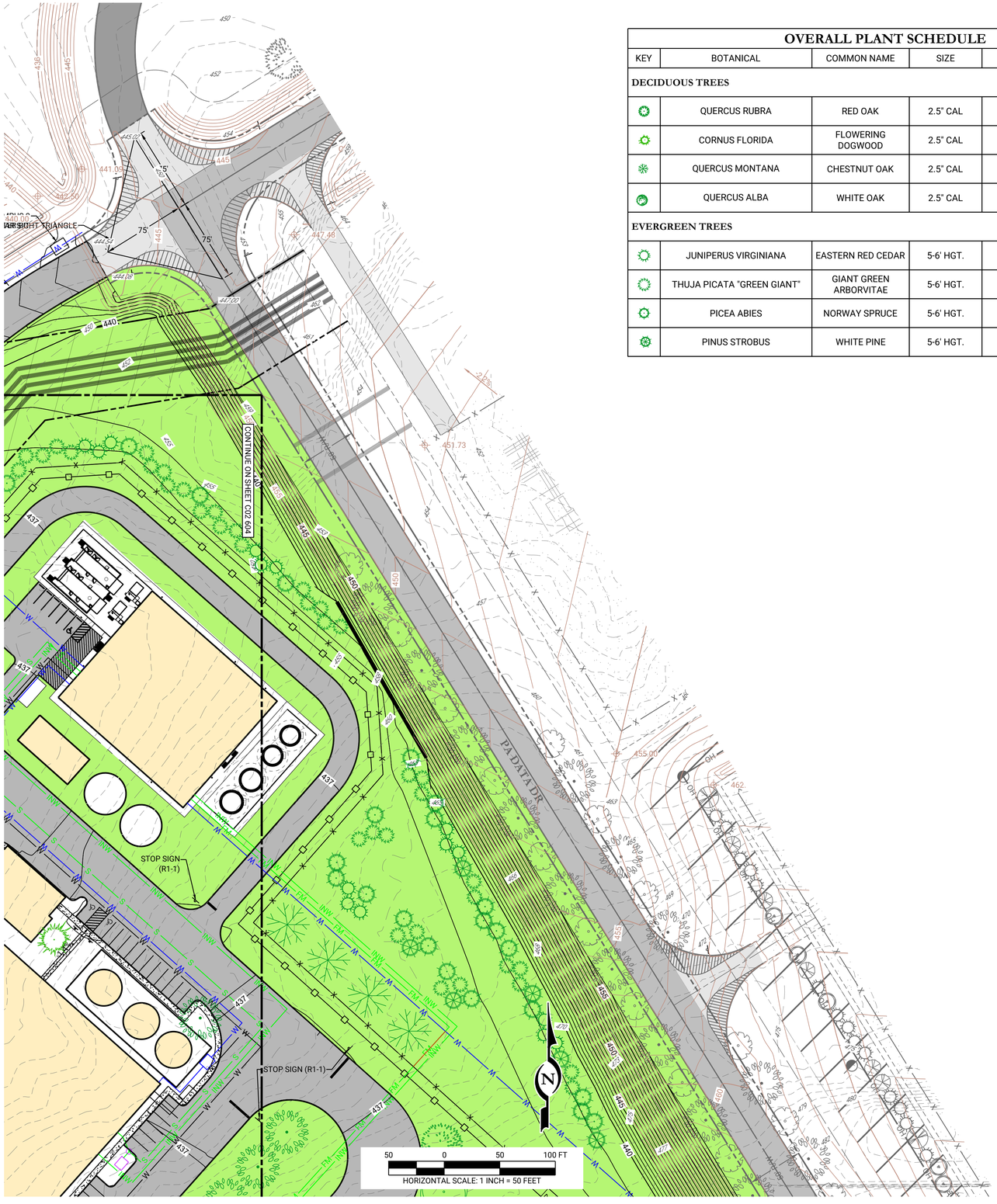
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

LANDSCAPING PLAN

SHEET NO.

C02 604



OVERALL PLANT SCHEDULE

KEY	BOTANICAL	COMMON NAME	SIZE	ROOT	COMMENTS
DECIDUOUS TREES					
	QUERCUS RUBRA	RED OAK	2.5" CAL	B & B	
	CORNUS FLORIDA	FLOWERING DOGWOOD	2.5" CAL	B & B	
	QUERCUS MONTANA	CHESTNUT OAK	2.5" CAL	B & B	
	QUERCUS ALBA	WHITE OAK	2.5" CAL	B & B	
EVERGREEN TREES					
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	5-6' HGT.	CONT.	12' O.C.
	THUJA PICATA "GREEN GIANT"	GIANT GREEN ARBORVITAE	5-6' HGT.	CONT.	12' O.C.
	PICEA ABIES	NORWAY SPRUCE	5-6' HGT.	B & B	12' O.C.
	PINUS STROBUS	WHITE PINE	5-6' HGT.	B & B	12' O.C.

REV	DATE	COMMENTS	BY	CHKD
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PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

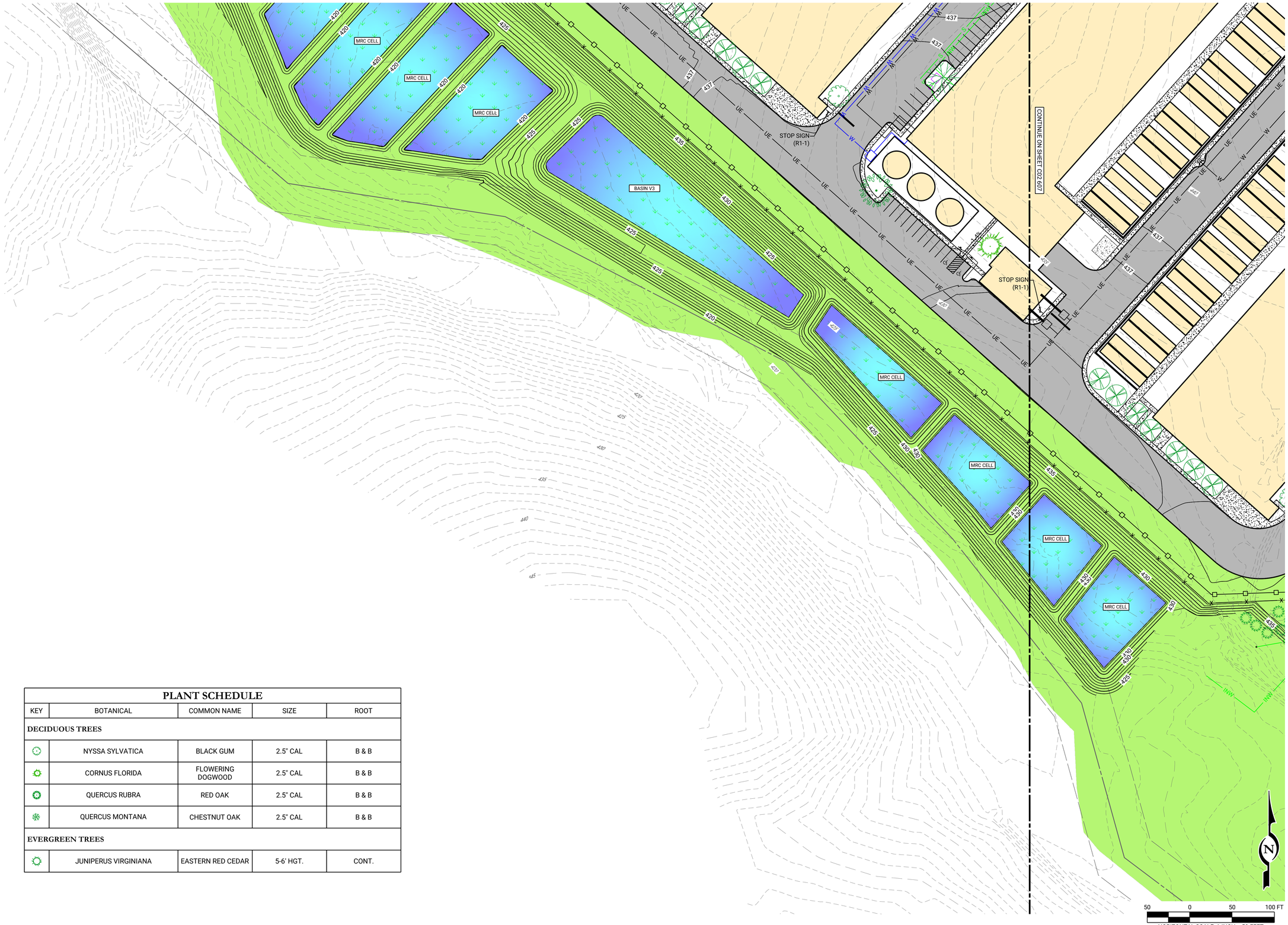
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

LANDSCAPING PLAN

SHEET NO.

C02 605



PLANT SCHEDULE

KEY	BOTANICAL	COMMON NAME	SIZE	ROOT
DECIDUOUS TREES				
	NYSSA SYLVATICA	BLACK GUM	2.5" CAL	B & B
	CORNUS FLORIDA	FLOWERING DOGWOOD	2.5" CAL	B & B
	QUERCUS RUBRA	RED OAK	2.5" CAL	B & B
	QUERCUS MONTANA	CHESTNUT OAK	2.5" CAL	B & B
EVERGREEN TREES				
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	5-6' HGT.	CONT.

REV	DATE	COMMENTS	BY	CHKD
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PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

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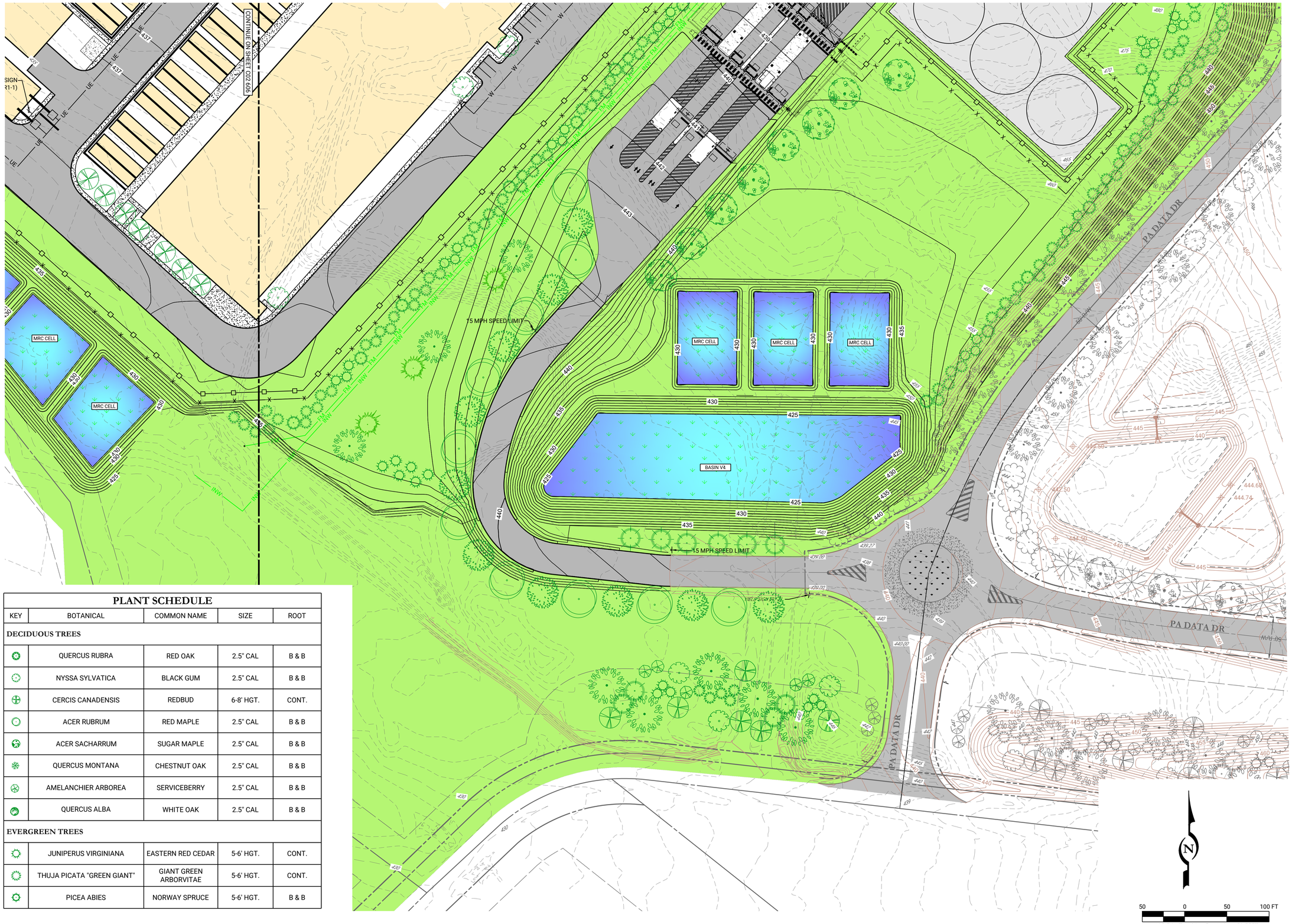
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

LANDSCAPING PLAN

SHEET NO.

C02 606



PLANT SCHEDULE

KEY	BOTANICAL	COMMON NAME	SIZE	ROOT
DECIDUOUS TREES				
	QUERCUS RUBRA	RED OAK	2.5" CAL	B & B
	NYSSA SYLVATICA	BLACK GUM	2.5" CAL	B & B
	CERCIS CANADENSIS	REDBUD	6-8' HGT.	CONT.
	ACER RUBRUM	RED MAPLE	2.5" CAL	B & B
	ACER SACHARRUM	SUGAR MAPLE	2.5" CAL	B & B
	QUERCUS MONTANA	CHESTNUT OAK	2.5" CAL	B & B
	AMELANCHIER ARBOREA	SERVICEBERRY	2.5" CAL	B & B
	QUERCUS ALBA	WHITE OAK	2.5" CAL	B & B
EVERGREEN TREES				
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	5-6' HGT.	CONT.
	THUJA PICATA "GREEN GIANT"	GIANT GREEN ARBORVITAE	5-6' HGT.	CONT.
	PICEA ABIES	NORWAY SPRUCE	5-6' HGT.	B & B

N

50 0 50 100 FT

HORIZONTAL SCALE: 1 INCH = 50 FEET

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
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1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

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LIVIC civil
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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

LANDSCAPING PLAN

SHEET NO.

C02 607



LIGHTING NOTES

- POST-APPROVAL ALTERATIONS TO LIGHTING PLANS OR INTENDED SUBSTITUTIONS FOR APPROVED LIGHTING EQUIPMENT SHALL BE SUBMITTED TO MIDDLESEX TOWNSHIP FOR REVIEW AND APPROVAL. REQUESTS FOR SUBSTITUTIONS SHALL BE ACCOMPANIED BY CATALOG CUTS OF THE PROPOSED EQUIPMENT AND LIGHTING PLANS, INCLUDING A POINT-BY-POINT PLOT, AS REQUIRED ABOVE, THAT DEMONSTRATE FULL COMPLIANCE WITH THE PLAN PREVIOUSLY APPROVED BY MIDDLESEX TOWNSHIP.
- THE TOWNSHIP RESERVES THE RIGHT TO CONDUCT POST-INSTALLATION INSPECTIONS TO VERIFY COMPLIANCE WITH THE ORDINANCE REQUIREMENTS AND APPROVED LIGHTING PLAN COMMITMENTS, AND IFDEEMED APPROPRIATE BY THE BOARD OF SUPERVISORS, TO REQUIRE REMEDIAL ACTION AT NO EXPENSE TO THE TOWNSHIP.
- ALL EXTERIOR LIGHTING SHALL MEET IESNA FULL-CUTOFF CRITERIA UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE BOARD OF SUPERVISORS
- INSTALLER SHALL NOTIFY MIDDLESEX TOWNSHIP TO ARRANGE FOR INSPECTION AND APPROVAL OFALL EXTERIOR LIGHTING, INCLUDING BUILDING-MOUNTED LIGHTING, PRIOR TO ITS INSTALLATION.
- THE ILLUMINATION PROJECTED FROM ANY USE ONTO A RESIDENTIAL USE SHALL AT NO TIME EXCEED ONE-TENTH(0.1) FOOTCANDLE, MEASURED LINE-OF-SIGHT FROM ANY POINT ONTO A RESIDENTIAL USE SHALL HAVE A COLOR TEMPERATURE OF 3,000° K OR LESS.
- THE ILLUMINATION PROJECTED FROM ANY PROPERTY ONTO A NON-RESIDENTIAL USE SHALL AT NO TIME EXCEED ONE (1.0) FOOTCANDLE, MEASURED LINE-OF-SIGHT FROM ANY POINT ON THE RECEIVING PROPERTY.
- DUE TO THE ELEVATED SAFETY AND SECURITY CONSIDERATIONS AND 24-HOUR OPERATION NEEDED FOR THE BULK ENERGY SYSTEMS CONTAINED AND CONNECTED TO DATA CENTER CAMPUS AFTER-HOURS ILLUMINATION LEVELS WILL REMAIN AT LEVELS ILLUSTRATED ON THE LIGHTING PLAN

150 0 150 300 FT

HORIZONTAL SCALE: 1 INCH = 150 FEET



SPECIFICATIONS	
Product Code	Prototype Light Pole
Ref. Spec.	ASTM C857
Concrete Class	5,000 PSI
Weight	2884
Design Load	
Mold Desc.	
Cubic Feet	19.09

Key	Qty	Description
(A)	4	HALFEN 7248 -HTA 6" ANCHOR
(B)	1	4"-6"DIA. Reducer
(C)		
(D)	1	4 TON SWIFT LIFT ANCHOR
(E)	4	HALFEN M20 OR M24 TEE BOLT**

LIGHTING LEGEND
FOOTCANDLES(FC)

8.0 +
7.9 - 5.0
4.9 - 2.0
1.9 - 1.0
0.9 - 0.1

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	VOLTS	QUANTITY	DEFAULT ELEVATION	LAMP DEPRECIATION
STREET		(4)	PREVAIL XL AREA AND ROADWAY LUMINAIRE(4) 70 CRI, 3000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH	ELECTRONIC	POLE	COOPER LIGHTING SOLUTIONS – LUMARK (FORMERLY EATON), PRV-XL-C125-D-UNV-T3-BZ-7030-HSS	120V 1P 2W	38	20'	1

REV	DATE	COMMENTS	BY
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DATE: NOVEMBER 26, 2025
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DRAWN BY: RJB CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

OVERALL PHOTOMETRIC PLAN

SHEET NO.

C02 701

LEGEND

- BUILDING LINE
- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
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- FENCE LINE — X
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- EXISTING PROPERTY LINE
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- PROPOSED RIGHT-OF-WAY LINE
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- PROPOSED OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD TRANSMISSION LINE — OH-TR
- PROPOSED OVERHEAD TRANSMISSION LINE — OH-TR
- EXISTING DATA/COMMUNICATION LINE — 0
- PROPOSED DATA/COMMUNICATION LINE — 0
- APPALACHIAN TRAIL
- FLOODWAY — FW
- 50' TOWNSHIP RIPARIAN BUFFER — RB1
- 100 YEAR FEMA FLOODPLAIN — 100-YR
- 500 YEAR FEMA FLOODPLAIN — 500-YR
- NATURE WALKING TRAIL
- CONODOGUINET CREEK (GIS)
- STREAMS
- PROPOSED WETLANDS
- ACOE JURISDICTIONAL WETLANDS
- PROPOSED PRIVATE ACCESS DRIVE
- PROPOSED PUBLIC ACCESS DRIVE

SYMBOLS

- TRANSMISSION TOWER
- DAY WATER TANKS
- WATER STORAGE
- SECURITY ENTRANCE (TYP)

SCM11 - MRC CELL 3

REBAR w/ LVC CAP

WETLAND "O"

WETLAND "N"

CHANNEL-03

BASIN R3

MRC CELL

CONTINUE ON SHEET C02 703

CONTINUE ON SHEET C02 704

STOP SIGN (R1-1)

DATA CENTER BUILDING E FFE: 457.75 156,483 SF

HORIZONTAL SCALE: 1 INCH = 50 FEET

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT	JHR
2	3/27/2025	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT	JHR
1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

ISSUE / REVISIONS

LIVIC civil
1015 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987.1993
www.liviccivil.com

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

PHOTOMETRIC PLAN

SHEET NO.

C02 702

LEGEND

- BUILDING LINE
- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
- PROPOSED 230 KV TRANSMISSION LINE EASEMENT
- PROPOSED 138 KV TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- FENCE LINE — X
- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- GIS PROPERTY LINE
- PUBLIC ROADWAY
- EXISTING RIGHT-OF-WAY LINE
- PROPOSED RIGHT-OF-WAY LINE
- APPROXIMATE TOWNSHIP LINE
- PROPOSED OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD TRANSMISSION LINE — OH-TR
- PROPOSED OVERHEAD TRANSMISSION LINE — OH-TR
- EXISTING DATA/COMMUNICATION LINE — 0
- PROPOSED DATA/COMMUNICATION LINE — 0
- APPALACHIAN TRAIL
- FLOODWAY — FW
- 50' TOWNSHIP RIPARIAN BUFFER — RB1
- 100 YEAR FEMA FLOODPLAIN — 100-YR
- 500 YEAR FEMA FLOODPLAIN — 500-YR
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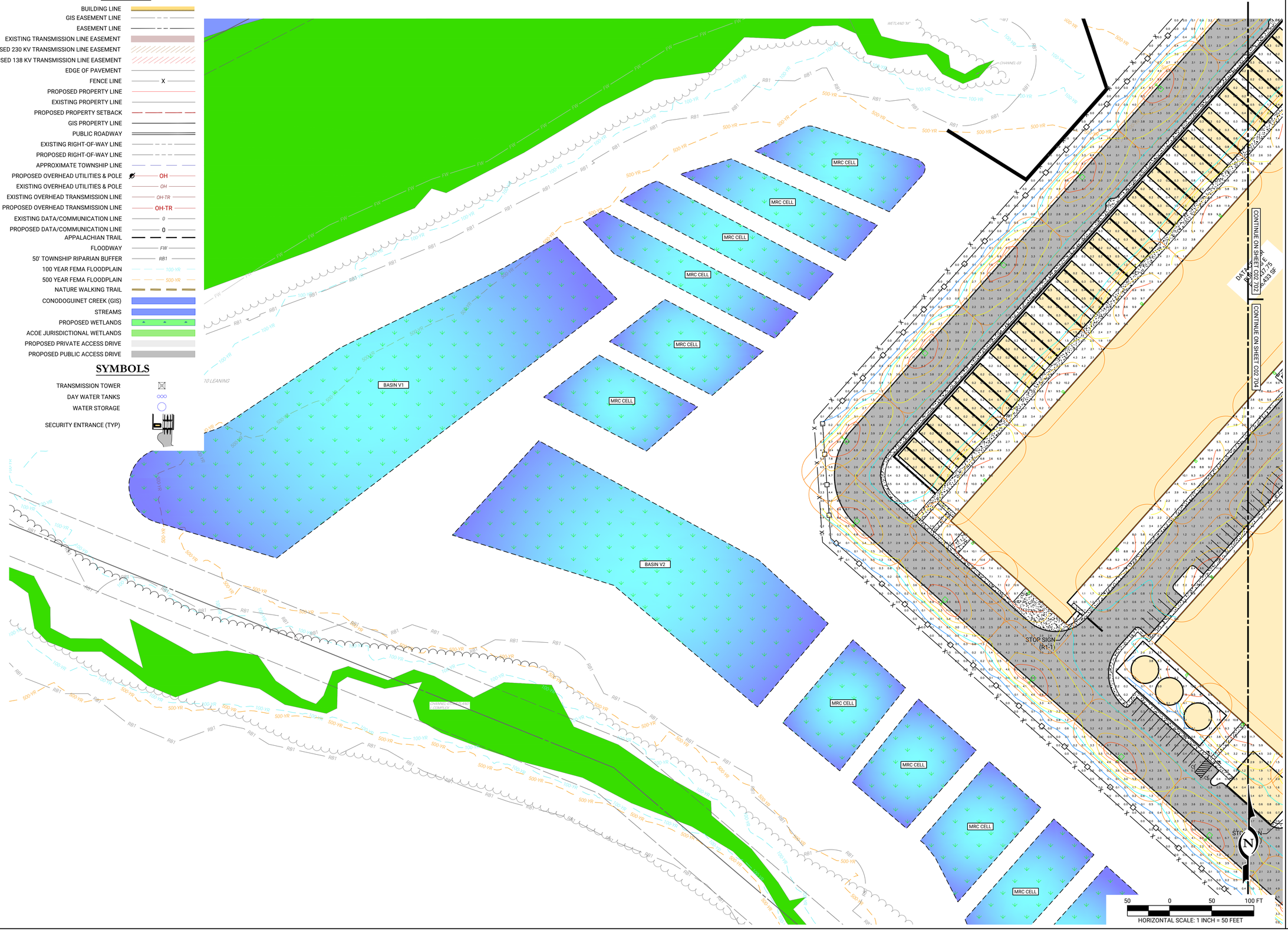
- CONODOGUINET CREEK (GIS)
- STREAMS
- PROPOSED WETLANDS
- ACOE JURISDICTIONAL WETLANDS
- PROPOSED PRIVATE ACCESS DRIVE
- PROPOSED PUBLIC ACCESS DRIVE

SYMBOLS

- TRANSMISSION TOWER
- DAY WATER TANKS
- WATER STORAGE
- SECURITY ENTRANCE (TYP)



REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT / JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT / JHR
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1	11/26/2025	INITIAL SUBMISSION	RJT / JHR

ISSUE / REVISIONS

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

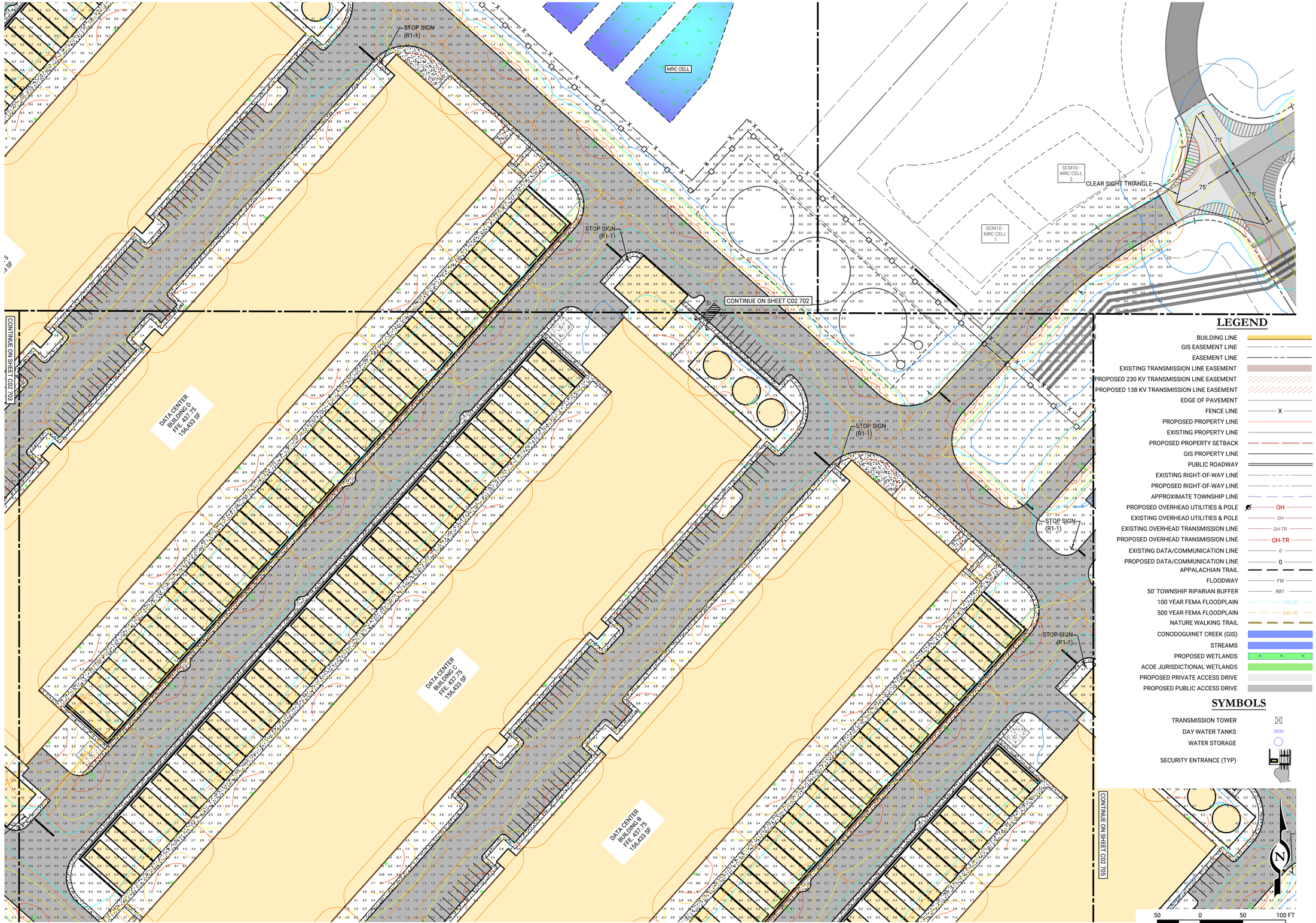
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

PHOTOMETRIC PLAN

SHEET NO.

C02 703



LEGEND

- BUILDING LINE
- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
- PROPOSED 230 KV TRANSMISSION LINE EASEMENT
- PROPOSED 138 KV TRANSMISSION LINE EASEMENT
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- PROPOSED OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD TRANSMISSION LINE — OH-TR
- PROPOSED OVERHEAD TRANSMISSION LINE — OH-TR
- EXISTING DATA/COMMUNICATION LINE — 0
- PROPOSED DATA/COMMUNICATION LINE — 0
- APPALACHIAN TRAIL
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SYMBOLS

- TRANSMISSION TOWER
- DAY WATER TANKS
- WATER STORAGE
- SECURITY ENTRANCE (TYP)

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2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT	JHR
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DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

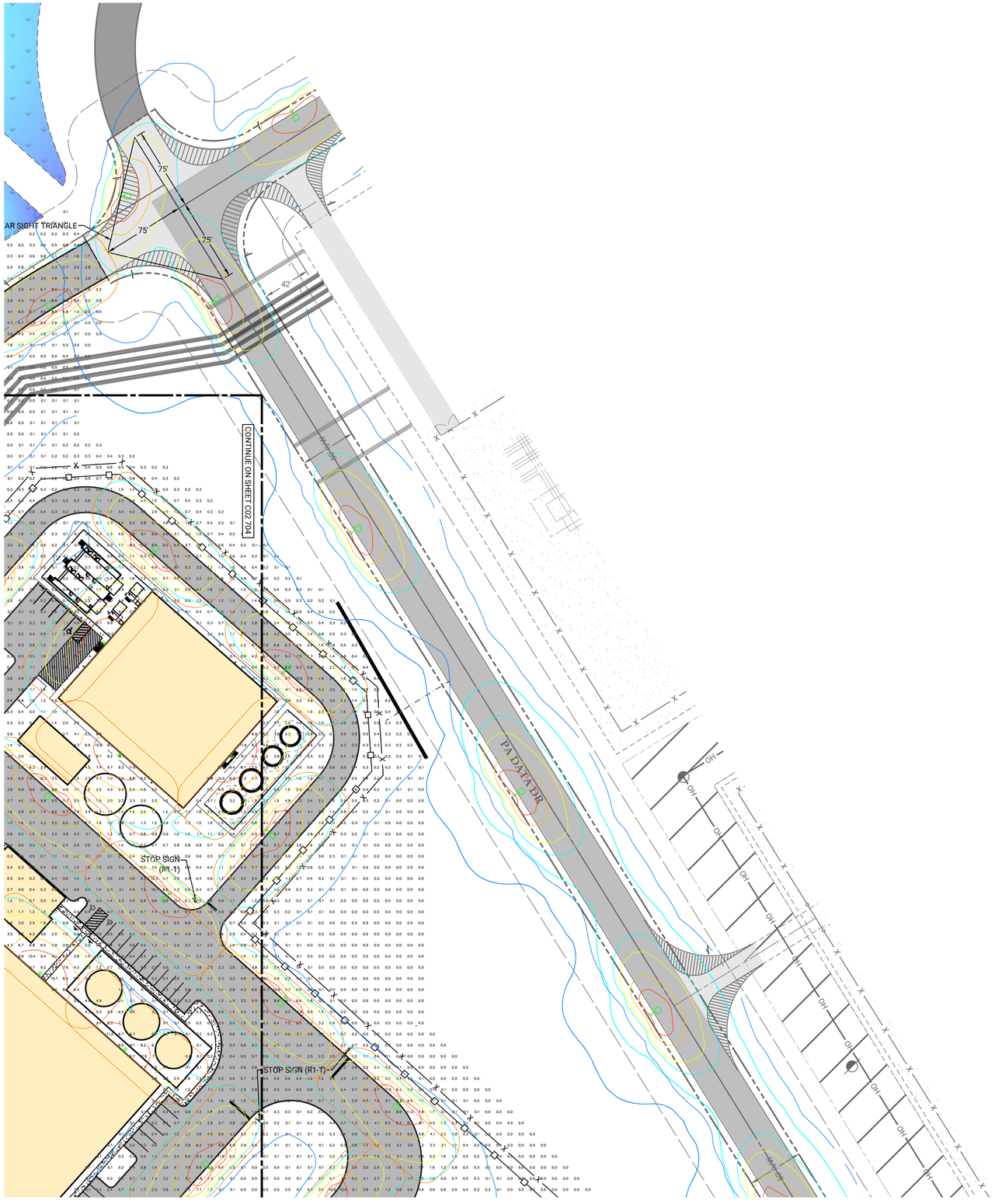
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

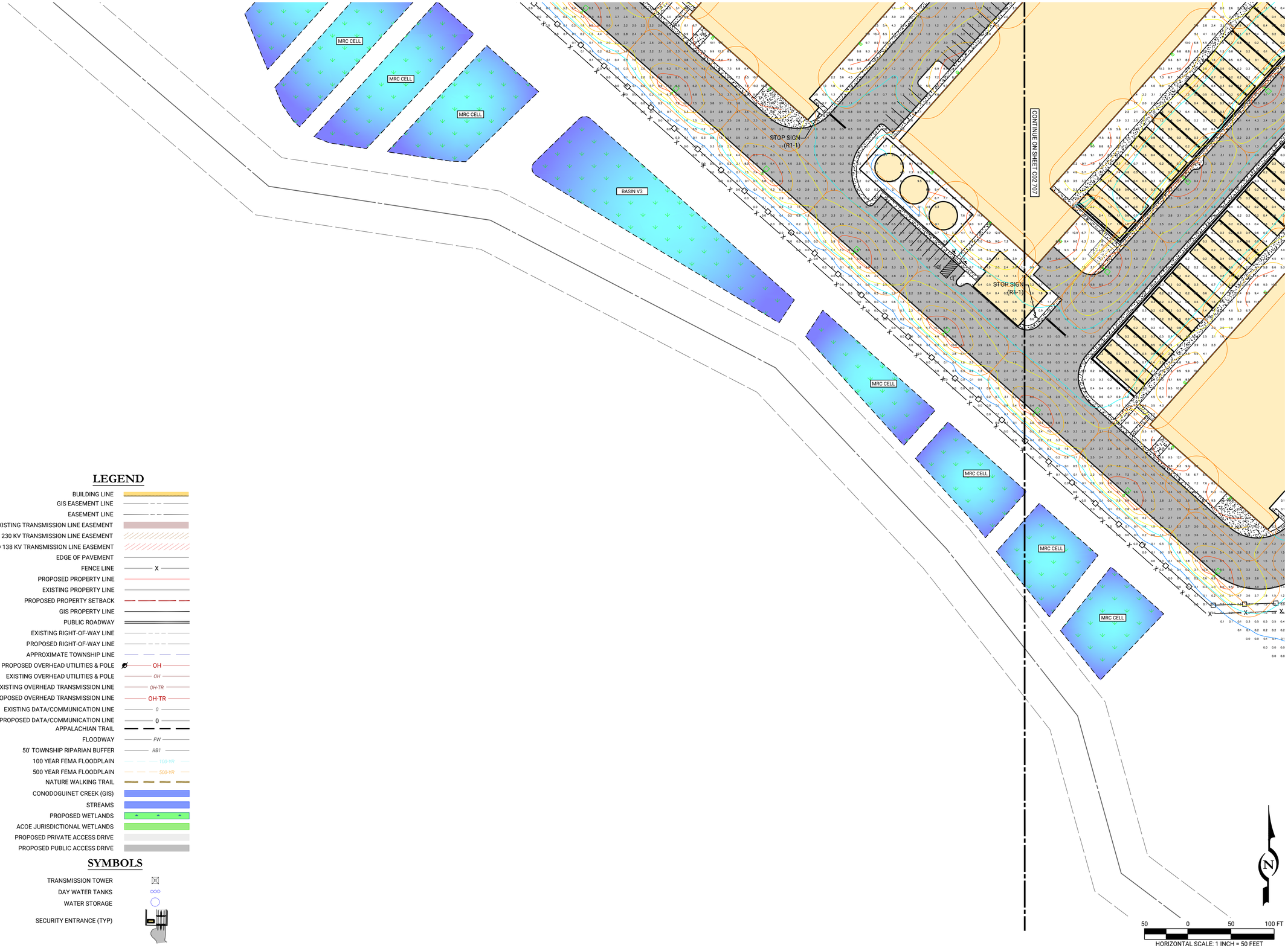
SHEET TITLE

PHOTOMETRIC PLAN

SHEET NO.

C02 704


AR SIGHT TRIANGLE
75'
75'
75'
42'
CONTINUE ON SHEET C02 704
STOP SIGN (R1-1)
STOP SIGN (R1-1)
PA DATA DR
PA DATA DR
OH
OH
OH
OH
OH
OH
OH
OH
OH
OH
OH
X
X
X



LEGEND

- BUILDING LINE
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- EASEMENT LINE
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- PROPOSED OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD UTILITIES & POLE — *OH*
- EXISTING OVERHEAD TRANSMISSION LINE — *OH-TR*
- PROPOSED OVERHEAD TRANSMISSION LINE — OH-TR
- EXISTING DATA/COMMUNICATION LINE — *0*
- PROPOSED DATA/COMMUNICATION LINE — 0
- APPALACHIAN TRAIL
- FLOODWAY — *FW*
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- 100 YEAR FEMA FLOODPLAIN — *100-YR*
- 500 YEAR FEMA FLOODPLAIN — *500-YR*
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SYMBOLS

- TRANSMISSION TOWER
- DAY WATER TANKS
- WATER STORAGE
- SECURITY ENTRANCE (TYP)

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DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

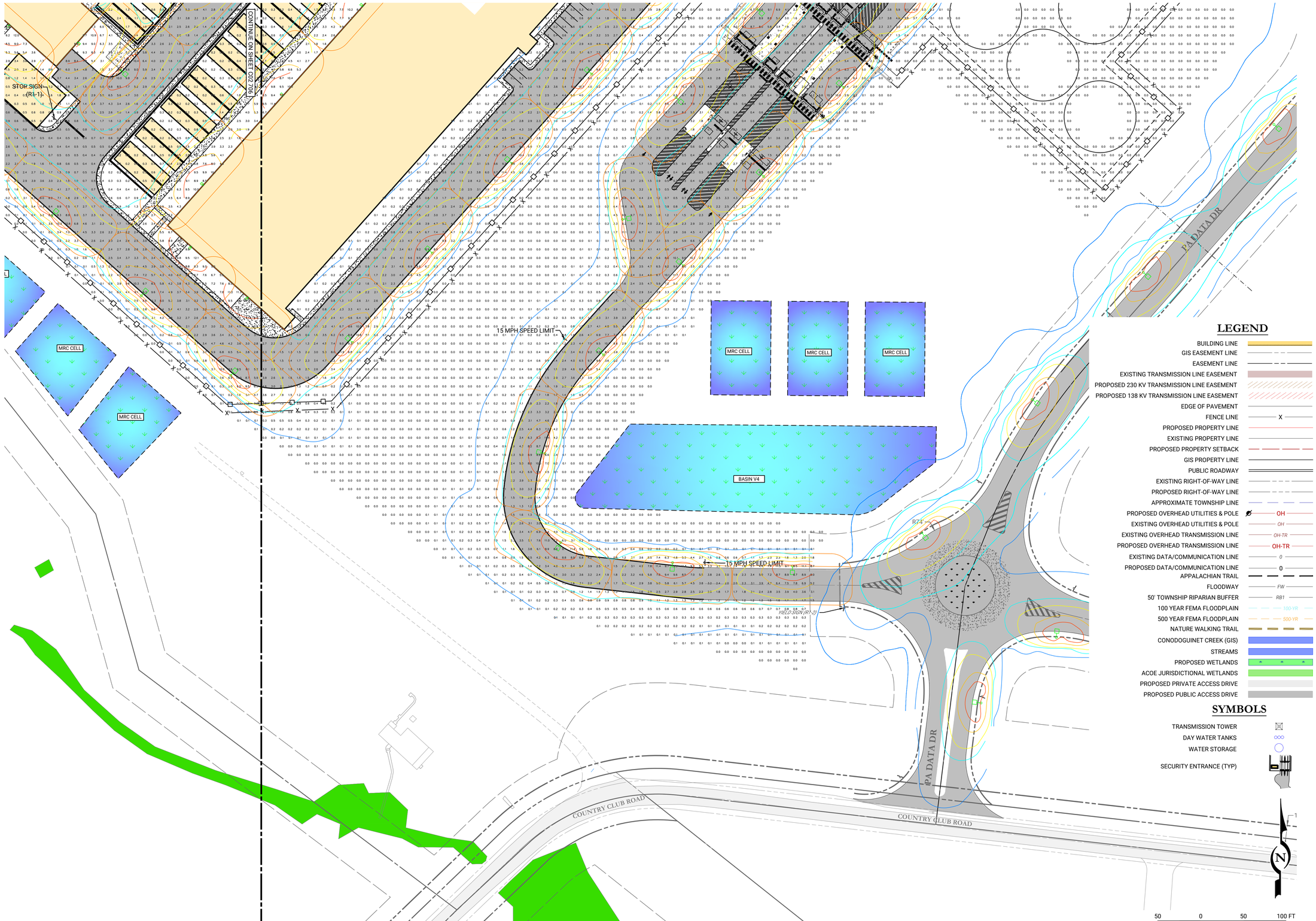
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

PHOTOMETRIC PLAN

SHEET NO.

C02 706



LEGEND

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- PROPOSED OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD TRANSMISSION LINE — OH-TR
- PROPOSED OVERHEAD TRANSMISSION LINE — OH-TR
- EXISTING DATA/COMMUNICATION LINE — 0
- PROPOSED DATA/COMMUNICATION LINE — 0
- APPALACHIAN TRAIL
- FLOODWAY — FW
- 50' TOWNSHIP RIPARIAN BUFFER — RB1
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SYMBOLS

- TRANSMISSION TOWER
- DAY WATER TANKS
- WATER STORAGE
- SECURITY ENTRANCE (TYP)

50 0 50 100 FT

HORIZONTAL SCALE: 1 INCH = 50 FEET

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

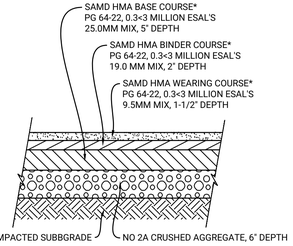
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

PHOTOMETRIC PLAN

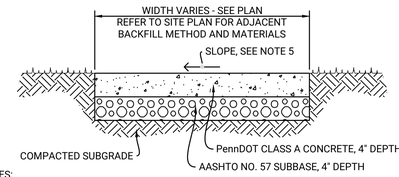
SHEET NO.

C02 707



CAMPUS ACCESS DRIVE PAVEMENT SECTION DETAIL

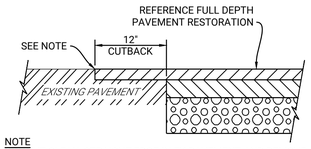
NOT TO SCALE



NOTES:
1. FORM 2" SMOOTH TOOLED BORDER AT ALL JOINTS AND EDGES WITH A ¼" RADIUS EDGING TOOL.
2. PROVIDE SCORED JOINTS EVERY FIVE (5') FEET AND EXPANSION JOINTS AT A MAXIMUM INTERVAL OF TWENTY FIVE (25') FEET.
3. WHERE CONCRETE ABUTS RIGID OBJECTS, INSTALL ½" PRE-MOLDED EXPANSION MATERIAL.
4. PROVIDE LIGHT BROOM FINISH PERPENDICULAR TO FOOT TRAFFIC.
5. MAXIMUM SLOPE
   - CROSS SLOPE - 2.0%
   - LONGITUDINAL SLOPE - 5.0%

CONCRETE WALK

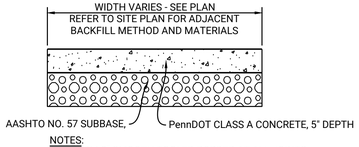
NOT TO SCALE



NOTE
SAWCUT CLEAN, STRAIGHT EDGE IN EX PAVEMENT AND REMOVE EX MATERIAL. INSTALL NEW PAVEMENT AGAINST EDGE, FORMING A SMOOTH, FLUSH JOINT. SEAL WITH CRAFCO ASPAHLT RUBBER TYPE 2 CRAFCO SUPERFLEX, OR EQUIVALENT.

PAVEMENT JOINT

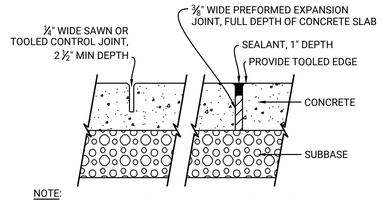
NOT TO SCALE



NOTES:
1. FORM 2" SMOOTH TOOLED BORDER AT ALL JOINTS AND EDGES WITH A ¼" RADIUS EDGING TOOL.
2. MAXIMUM SLOPE
   - CROSS SLOPE - 2.0%
   - LONGITUDINAL SLOPE - 5.0%

CONCRETE PAD

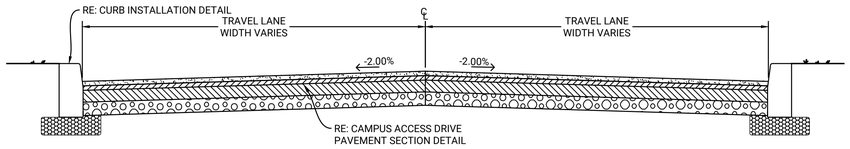
NOT TO SCALE



NOTE:
SEE DRAWINGS AND SPECIFICATION FOR PLACEMENT OF ISOLATION AND CONTROL JOINTS FOR CONCRETE.

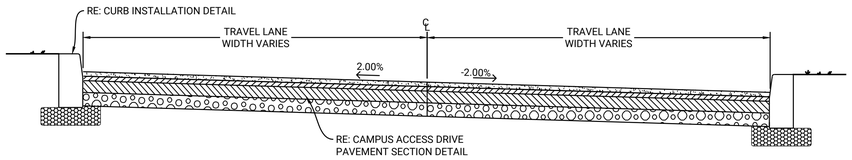
EXPANSION AND CONTROL JOINTS

NOT TO SCALE



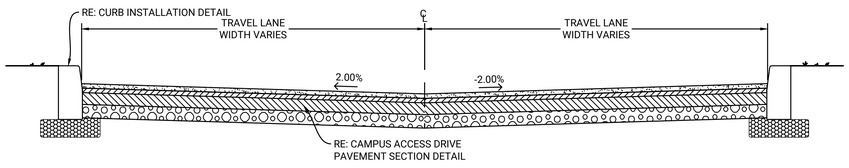
CAMPUS SECONDARY ACCESS TYPICAL CROSS-SECTION

NOT TO SCALE



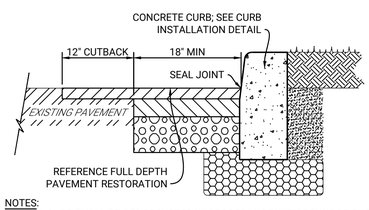
CAMPUS LOOP ROAD AND SECURITY ENTERANCE TYPICAL CROSS-SECTION

NOT TO SCALE



CAMPUS INTERNAL TYPICAL CROSS-SECTION

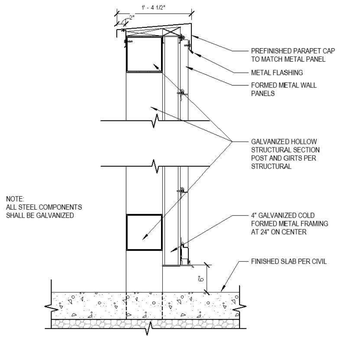
NOT TO SCALE



NOTES:
1. ALL CURB SHALL BE CONSTRUCTED IN ACCORDANCE WITH PENNDOT PUB 408 STANDARDS

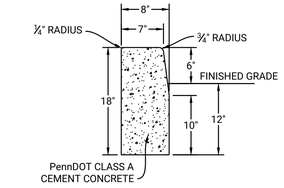
CURB INSTALLATION - EXISTING PAVEMENT

NOT TO SCALE

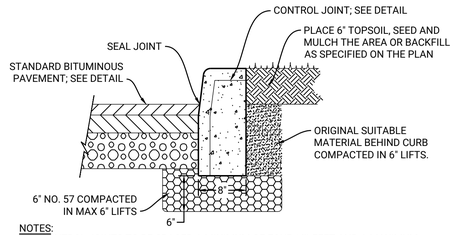


SCREENING WALL

NOT TO SCALE



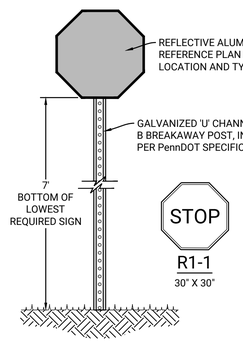
TYPICAL CROSS SECTION



NOTES:
1. CONTROL JOINTS TO BE SPACED A MINIMUM OF FOUR (4') FEET AND A MAXIMUM OF TWENTY (20') FEET.
2. WHEN EXISTING PAVEMENT IS PRESENT, SAW CUT A MINIMUM OF EIGHTEEN (18") INCHES FROM FACE OF CURB OR AS REQUIRED FOR NECESSARY INSTALLATION.
3. SEAL ALL CONCRETE TO CONCRETE, CONCRETE TO PAVEMENT AND PAVEMENT TO PAVEMENT JOINTS.
4. ALL CURB SHALL BE CONSTRUCTED IN ACCORDANCE WITH PENNDOT PUB 408 STANDARDS

CURB INSTALLATION

NOT TO SCALE

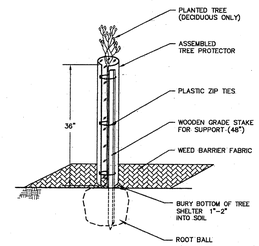


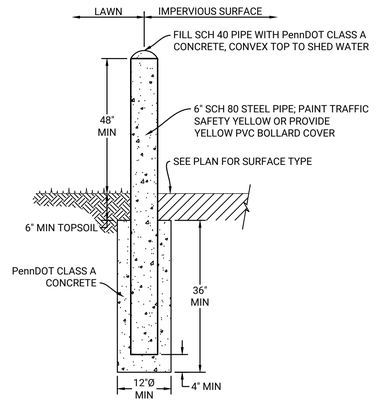
ROAD SIGN

NOT TO SCALE

TREE SHELTER DETAIL (TYP.)

NOT TO SCALE





CONCRETE BOLLARD

NOT TO SCALE

REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT
1	11/26/2025	INITIAL SUBMISSION	RJT

ISSUE / REVISIONS

CHKD: JHR

LIVIC civil
1015 MUMMA ROAD
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PHONE: 888.987.1993
www.livicciviil.com

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

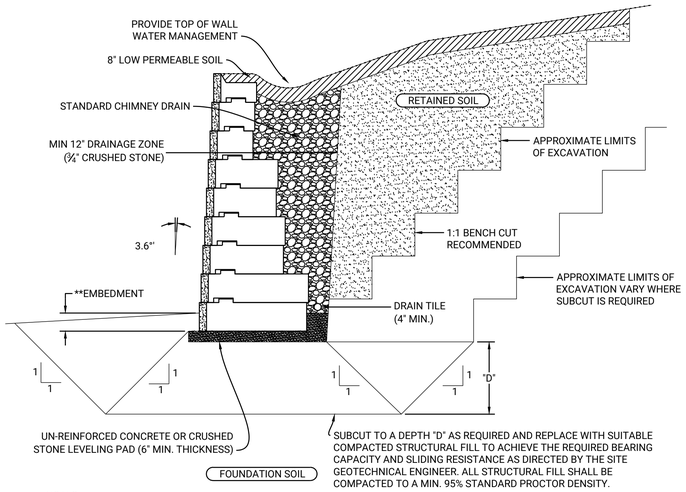
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

DETAILS

SHEET NO.

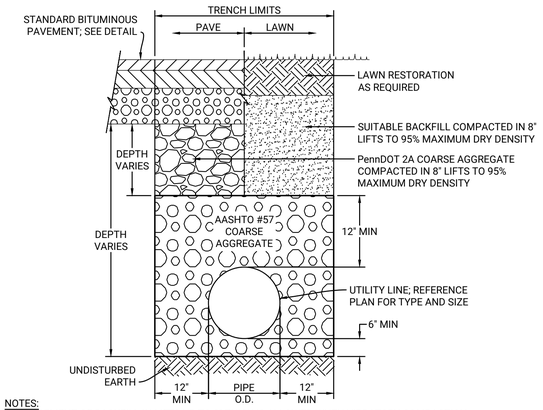
C02 801



NOTES:
1. SITE GRADING AND TOPOGRAPHY SHOULD BE DESIGNED TO MANAGE WATER AT THE TOP OF THE RETAINING WALL.
2. IT IS RECOMMENDED THAT A STANDARD CHIMNEY DRAIN AND DRAINTILE BE INSTALLED FOR ALL WALLS TO FACILITATE DRAINAGE OF INCIDENTAL SURFACE WATER AND POTENTIAL BELOW GRADE WATER.

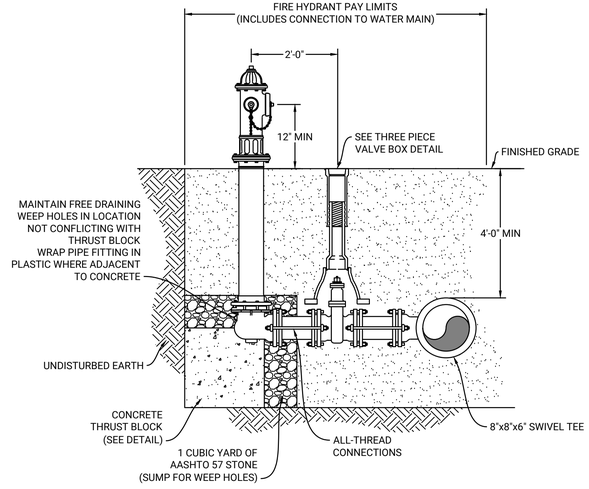
** EMBEDMENT SHOULD BE THE GREATER OF 6" OR H/20 FOR WALLS WITH LEVEL GRADE AT THE TOE.

TYPICAL GRAVITY WALL CROSS SECTION
NOT TO SCALE



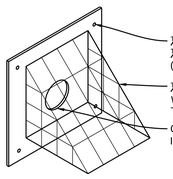
NOTES:
1. PLACEMENT OF BACKFILL IN LIFTS UP TO 8" THICK IS ALLOWED WHEN VIBRATORY COMPACTION EQUIPMENT IS BEING UTILIZED. USE MECHANICAL TAMPERS OR OTHER ACCEPTABLE COMPACTION EQUIPMENT WITH CONSISTENT APPLICATION FORCE SO NO DAMAGE TO THE PIPE OCCURS. BACKFILL WILL BE TESTED FOR 100% COMPACTION WHEN PLACED IN PAVED AREAS.
2. COMPACT THE TOP 3' OF BACKFILL MATERIAL TO 100% STANDARD PROCTOR DENSITY.
3. FOLLOW OSHA SAFETY REQUIREMENTS FOR SLOPE LAYBACKS OR PROVIDE SHORING AS REQUIRED.

FULL DEPTH TRENCH RESTORATION
NOT TO SCALE



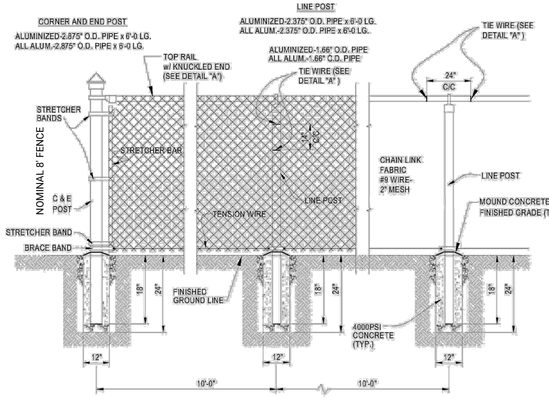
NOTES:
1. HYDRANT TO BE AMERICAN DARLING B-62-B5

TYPICAL HYDRANT INSTALLATION
NOT TO SCALE

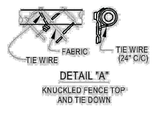


OUTLET STRUCTURE	ORIFICE SIZE	ORIFICE INVERT
BASIN R3	5"X5" 3"X20"	419.00 420.00
BASIN V1	8" Ø	408.00
BASIN V2	8" Ø	415.00
BASIN V3	4"X16" 4"X16"	422.00 422.75
BASIN V4	10"X10"	425.00

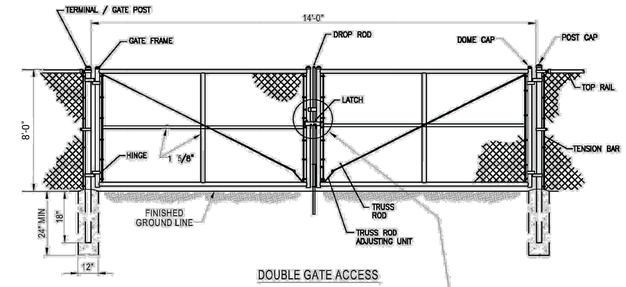
ORIFICE TRASH RACK
NOT TO SCALE



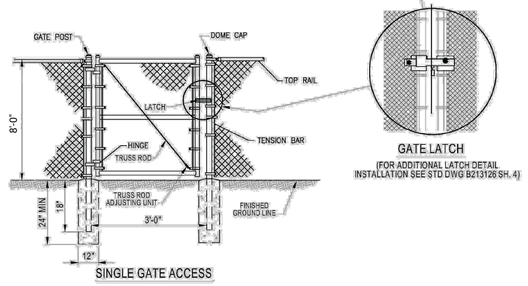
CORNER AND LINE POST SETTING
N.T.S



DETAIL "A"
KNUCKLED FENCE TOP AND TIE-DOWN



DOUBLE GATE ACCESS



SINGLE GATE ACCESS

GATE LATCH
(FOR ADDITIONAL LATCH DETAIL INSTALLATION SEE STD DWG B213126 SH. 4)

NOTES:
1. ADD MESH PRIVACY SCREEN TO CUSTOMER SUBSTATION FENCES.

CHAIN-LINK FENCE AND GATE DETAILS
NOT TO SCALE

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
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PROJECT
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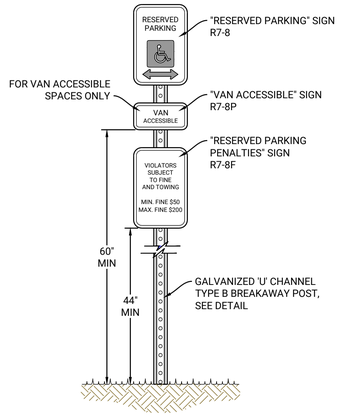
CLIENT
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

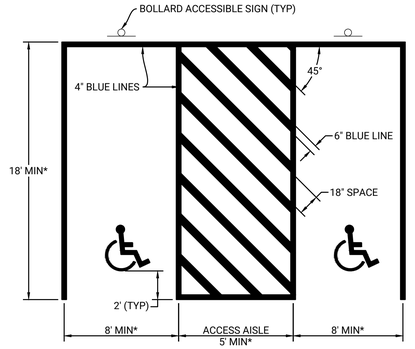
SHEET TITLE
DETAILS

SHEET NO.
C02 802



NOTES:
1. SIGN PANELS ARE TO BE 0.10 ALUMINUM WITH RAISED OR SILKSCREEN COPY. BOLT TO GALVANIZED TYPE B POST WITH ⅜"Ø CADMIUM PLATED NUTS, BOLTS AND WASHERS.
2. SIGN DETAILS AND DESIGNATIONS ARE PER PennDOT PUBLICATION 236, HANDBOOK OF APPROVED SIGNS. REFERENCE PUB 236 FOR ADDITIONAL DETAILS.

ACCESIBLE SIGNAGE - TYPE B BREAKWAY POST
NOT TO SCALE

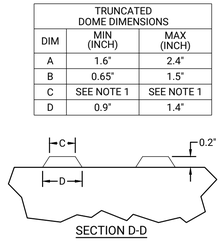


* DIMENSIONS SHOWN ARE MINIMUM. SEE PLAN FOR ACTUAL DIMENSIONS OF ACCESSIBLE PARKING LAYOUT.

NOTES:
1. THE MAXIMUM SLOPE IN ANY DIRECTION CANNOT EXCEED 2.0%.
2. VAN ACCESSIBLE PARKING SPACES SHALL HAVE AN ACCESS AISLE OF EIGHT (8') FEET MINIMUM.

ACCESSIBLE PARKING STALL
NOT TO SCALE

TRUNCATED DOME DIMENSIONS		
DIM	MIN (INCH)	MAX (INCH)
A	1.6"	2.4"
B	0.65"	1.5"
C	SEE NOTE 1	SEE NOTE 1
D	0.9"	1.4"



NOTES:
1. THE 'C' DIMENSION IS 50% TO 65% OF THE 'D' DIMENSION.
2. PROVIDE DETECTABLE WARNING SURFACES (DWS) 24" MINIMUM (IN THE DIRECTION OF PEDESTRIAN TRAVEL) ACROSS FULL WIDTH OF RAMP AT THE GRADE BREAK NEAR STREET EDGE. PROVIDE DWS THAT CONTRAST VISUALLY WITH ADJACENT WALKWAY SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT FOR THE FULL WIDTH OF RAMP.
3. PLACE ADJACENT DWS TILES WITH MANUFACTURED SURFACE TO MANUFACTURED SURFACE. CUT TILES ALONG THE PERIMETER ONLY.
4. LOCATE ONE CORNER OF THE DWS AT THE BACK OF CURB. NO OTHER POINT ON THE LEADING EDGE OF THE DWS MAY BE MORE THAN 60" AWAY FROM THE BACK OF CURB.
5. DWS COLOR SHALL BE BLACK.

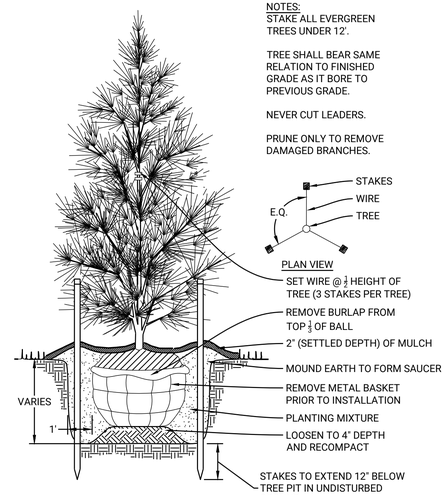
DETECTABLE WARNING SURFACE (DWS)
NOT TO SCALE

NOTES:
STAKE ALL EVERGREEN TREES UNDER 12'.

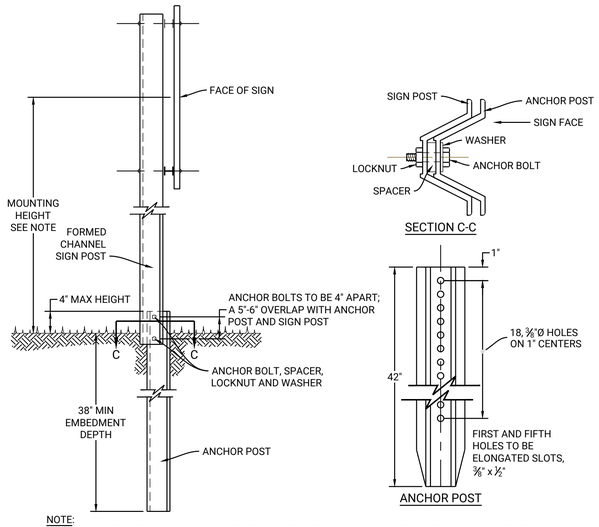
TREE SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE.

NEVER CUT LEADERS.

PRUNE ONLY TO REMOVE DAMAGED BRANCHES.

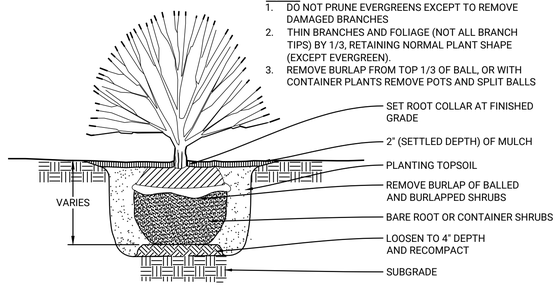


EVERGREEN TREE PLANTING
NOT TO SCALE

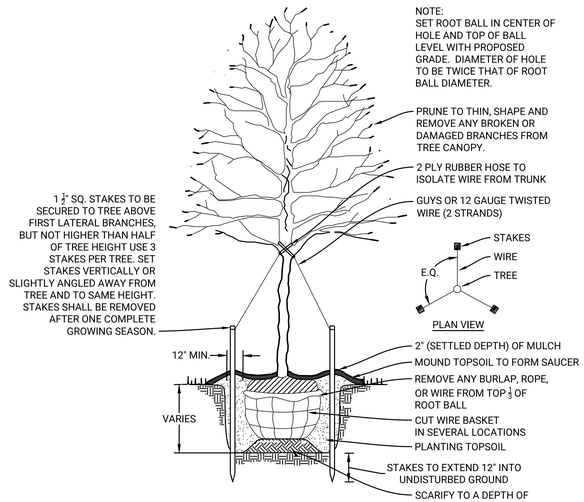


NOTE:
CLEARANCE HEIGHT SHALL BE MEASURED FROM THE BOTTOM OF THE SIGN TO A LEVEL LINE PROJECTED FROM THE NEAR EDGE OF ROADWAY. THIS MAY RESULT IN A SIGN HEIGHT GREATER THAN THE MINIMUM HEIGHT REQUIRED WHEN MEASURED FROM THE GROUND LEVEL TO THE BOTTOM OF THE SIGN. IN BUSINESS AND URBAN AREAS THE CLEARANCE HEIGHT SHALL ALSO BE MEASURED FROM THE BOTTOM OF THE SIGN TO THE GROUND LEVEL OR SIDEWALK AREA TO REDUCE THE POSSIBILITY OF PEDESTRIANS COLLIDING WITH THE SIGN.

BREAK A-WAY SIGN POST
NOT TO SCALE



SHRUB PLANTING
NOT TO SCALE



DECIDUOUS TREE PLANTING
NOT TO SCALE

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ISSUE / REVISIONS

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PROJECT

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CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
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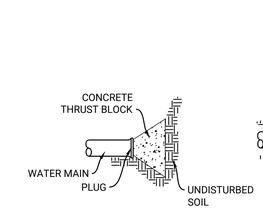
SHEET TITLE

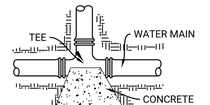
DETAILS

SHEET NO.

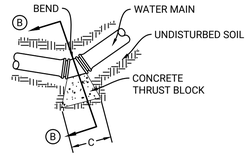
C02 803

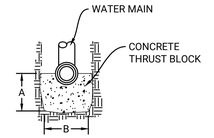


THRUST BLOCK FOR PLUG

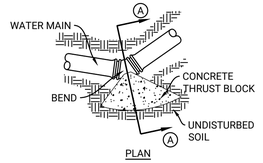


THRUST BLOCK FOR TEE

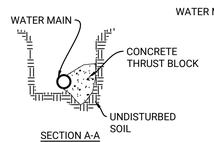




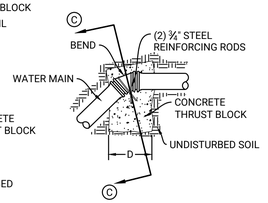
SECTION B-B

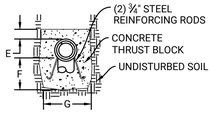


PLAN



SECTION A-A





SECTION C-C

THRUST BLOCK FOR HORIZONTAL BENDS

AREA OF BEARING FACE OF CONCRETE THRUST BLOCK IN SQUARE FEET BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL					
TYPE	A	B	C	D	E
PIPE SIZE	TEE/PLUG	90° BEND	45° BEND	22.5° BEND	11.25° BEND
4"-6"	4/5	6	3	3	3
8"	7/8	10	6	3	3

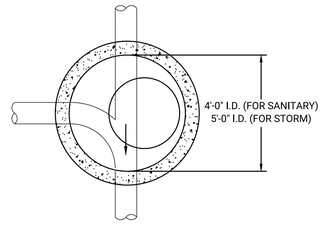
NOTES:
1. THRUST BLOCK DESIGN BASED ON A SOIL BEARING CAPACITY OF 500 PSI, REFLECTING THE STRENGTH OF SOFT CLAY. ANY SPECIAL SOIL CONDITIONS REQUIRE SPECIAL ATTENTION. ALTERNATE THRUST CONTROL ONLY WHEN APPROVED BY ENGINEER.
2. FORM ALL THRUST BLOCKS TO AVOID CONCRETE CONTACT WITH BOLT HEADS OR NUTS.
3. THRUST BLOCKS ARE NOT REQUIRED FOR FUSED CONNECTIONS AS SPECIFIED. DETAIL IS SHOWN FOR REFERENCE IN THE EVENT THAT METALLIC CONNECTIONS ARE PROVIDED AS AN APPROVED SUBSTITUTE.

THRUST BLOCK FOR VERTICAL BENDS

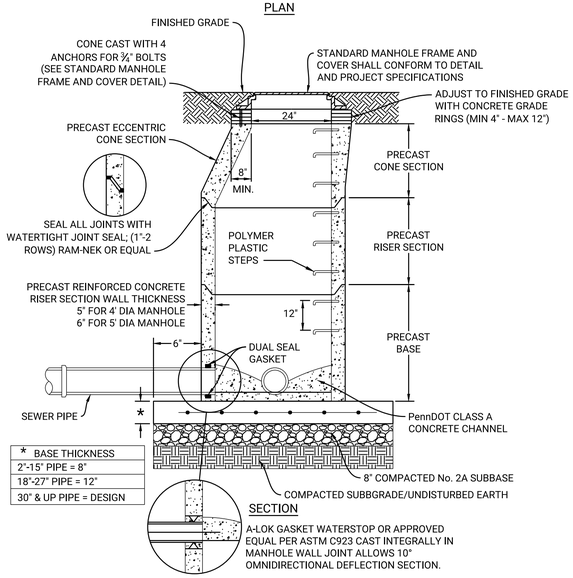
BEND		MIN VOLUME OF CONCRETE FOR BLOCK DIM. D, E, F, G	MINIMUM ALLOWABLE DIMENSIONS FOR VERTICAL THRUST BLOCKS (IN FEET)							
			A	B	C	D	E	F	G	H*
4"	11.25°	0.2 CU.YD	1.0	2.5	1.0	2.0	0.5	1.0	2.0	0.5
4"	22.5°	0.4 CU.YD.	1.0	2.5	1.5	2.0	1.0	2.0	2.0	1.5
4"	45°	0.8 CU.YD	1.5	2.5	1.5	2.5	1.5	2.0	2.5	1.5
4"	90°	1.5 CU.YD.	1.5	2.5	1.5	4.0	1.5	2.0	3.0	1.5
6"	11.25°	0.2 CU.YD	1.0	2.5	1.0	2.0	0.5	1.0	2.0	0.5
6"	22.5°	0.4 CU.YD.	1.0	2.5	1.5	2.0	1.0	2.0	2.0	1.5
6"	45°	0.8 CU.YD	1.5	2.5	1.5	2.5	1.5	2.0	2.5	1.5
6"	90°	1.5 CU.YD.	1.5	2.5	1.5	4.0	1.5	2.0	3.0	1.5
8"	11.25°	0.5 CU.YD	1.0	2.5	1.5	2.0	1.0	1.5	2.0	1.0
8"	22.5°	0.7 CU.YD.	1.5	2.5	1.5	2.5	1.0	2.0	2.5	1.5
8"	45°	1.4 CU.YD	1.5	2.5	2.0	4.0	1.5	2.0	3.0	1.5
8"	90°	2.6 CU.YD.	2.0	2.5	2.0	4.0	2.0	3.0	3.5	2.5

THRUST BLOCKING

NOT TO SCALE



PLAN



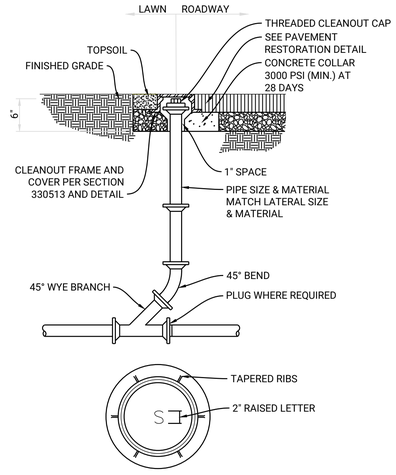
* BASE THICKNESS
2"-15" PIPE = 8"
18"-27" PIPE = 12"
30" & UP PIPE = DESIGN

SECTION

A-LOK GASKET WATERSTOP OR APPROVED EQUAL PER ASTM C923 CAST INTEGRALLY IN MANHOLE WALL JOINT ALLOWS 10° OMNIDIRECTIONAL DEFLECTION SECTION.

SANITARY/STORM PRECAST MANHOLE

NOT TO SCALE



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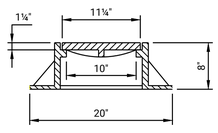
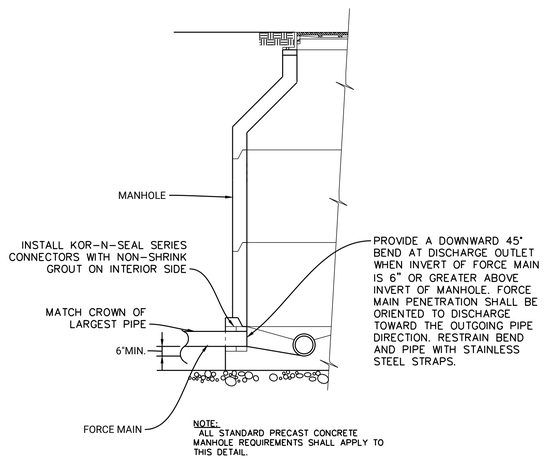


SECTION

NOTES:
1. LABEL COVER "S" OR "SEWER"
2. FRAME AND COVER SHALL BE NEENAH MODEL R-1976, OR EQUAL.
3. FINISH GRADE SHALL SLOPE AWAY FROM CLEANOUT.

STANDARD CLEANOUT FRAME AND COVER

NOT TO SCALE



NOTE:
ALL STANDARD PRECAST CONCRETE MANHOLE REQUIREMENTS SHALL APPLY TO THIS DETAIL.

FORCE MAIN CONNECTION DETAIL

NOT TO SCALE

REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT
1	11/26/2025	INITIAL SUBMISSION	RJT

ISSUE / REVISIONS

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

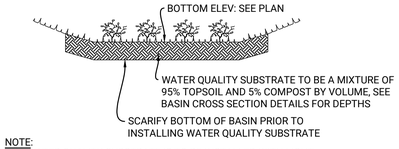
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

DETAILS

SHEET NO.

C02 804



NOTE:
THE WATER QUALITY SUBSTRATE IS TO BE INSTALLED WITH LIGHT MACHINERY TO AVOID COMPACTION. IT IS RECOMMENDED THAT A SOIL SAMPLE ANALYSIS BE PERFORMED PRIOR TO INSTALLATION TO ENSURE THE PROPER MIX IS BEING USED. THE SEEDING SHALL BE INSTALLED DURING A TIME IN WHICH NO RAIN IS PREDICTED TO AIDE IN GERMINATION.

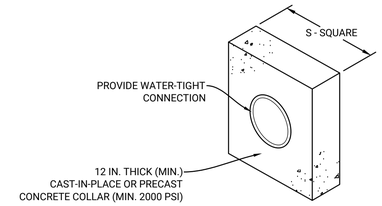
BASIN FLOOR SEEDING: OBL WETLAND MIX - ERNMX-131 OR APPROVED EQUAL

27.4%	Carex lurida, PA Ecotype	LURID SEDGE, PA ECOTYPE
22.5%	Carex scoparia, PA Ecotype	BLUNT BROOM SEDGE, PA ECOTYPE
21.7%	Carex vulpinoidea, PA Ecotype	FOX SEDGE, PA ECOTYPE
6.9%	Sparganium americanum	EASTERN BUR REED
5.0%	Elymus virginicus, Madison-NY Ecotype	VIRGINIA WILDRYE, MADISON-NY ECOTYPE
4.0%	Verbena hastata, PA Ecotype	BLUE VERVAIN, PA ECOTYPE
3.0%	Juncus effusus	SOFT RUSH
2.0%	Asclepias incarnara, PA Ecotype	SWAMP MILKWEED, PA ECOTYPE
1.2%	Glyceria striata, PA Ecotype	FOWL MANNAGRASS, PA ECOTYPE
1.1%	Onoclea sensibilis	SENSITIVE FERN
1.0%	Aster puniceus, PA Ecotype	PURPLESTEM ASTER, PA ECOTYPE
1.0%	Eupatorium perfoliatum, PA Ecotype	BONESET, PA ECOTYPE
1.0%	Scirpus validus, PA Ecotype	SOFTSTEM BULRUSH, PA ECOTYPE
0.5%	Carex crinita, PA Ecotype	FRINGED SEDGE, PA ECOTYPE
0.5%	Scirpus cyperinus, PA Ecotype	WOOLGRASS, PA ECOTYPE
0.5%	Solidago rugosa, PA Ecotype	WRINKLELEAF GOLDENROD, PA ECOTYPE
0.3%	Mimulus ringens, PA Ecotype	SQUARE STEMMED MONKEYFLOWER, PA ECOTYPE
0.20%	Carex stricta, PA Ecotype	TUSSOCK SEDGE, PA ECOTYPE
0.20%	Lycopus americanus, PA Ecotype	AMERICAN WATER HOREHOUND, PA ECOTYPE

SEEDING RATE: 20 lb PER ACRE OR 1/2 lb PER 1,000 SQ FT WITH A COVER CROP

WATER QUALITY BMP-AMENDED SOIL (BASINS R3, V1, V2, V3 & V4)

NOT TO SCALE

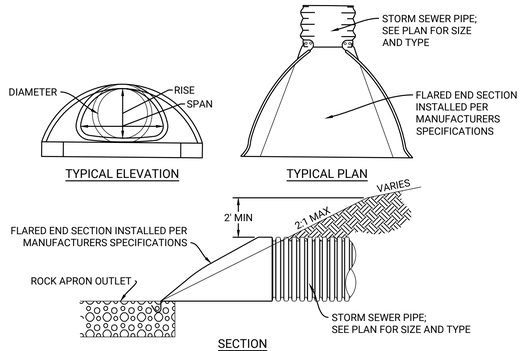


BASIN OR TRAP NO.	PIPE SIZE (IN)	S (IN)	NO. OF COLLARS
R3	18	39	2
V1	18	45	3
V2	18	36	3
V3	30	48	3
V4	24	42	3

NOTES:
1. ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT.
2. COLLAR SIZE SHALL BE AS INDICATED WITHIN TABLE.

CONCRETE ANTI-SEEP COLLAR FOR PERMANENT BASINS OR TRAPS STANDARD CONSTRUCTION DETAIL 7-16

NOT TO SCALE



HDPE FLARED END SECTION

NOT TO SCALE

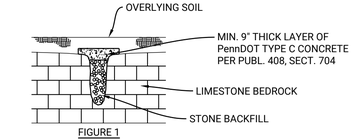


FIGURE 1

FIGURE 1 REPRESENTS A SINKHOLE CREATED BY A SOLUTION CAVITY WHICH PINCHES OUT WITH DEPTH. THIS TYPE OF SINKHOLE IS USUALLY SMALL. THE METHOD USED FOR ITS CORRECTION INCLUDES:

A. EXCAVATING THE OVERLYING SOIL FROM AROUND THE SURFACE TO THE EXTENT NECESSARY TO DETERMINE THE APPROPRIATE CORRECTION METHOD AND TO EXPOSE A COMPETENT LIMESTONE BEDROCK LEDGE AROUND THE SINKHOLE.
B. BACKFILLING WITH STONE.
C. CAPPING THE STONE BACKFILL WITH A LAYER OF CONCRETE WHICH EXTENDS SEVERAL FEET OVER THE COMPETENT LIMESTONE BEDROCK LEDGE WHICH HAS BEEN EXPOSED.
D. COVERING THE LAYER OF CONCRETE WITH SOIL TO MATCH THE SURROUNDING GRADE.

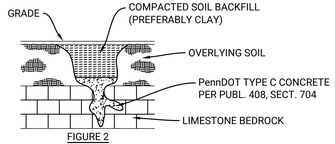


FIGURE 2

FIGURE 2 REPRESENTS AN ACTIVE SINKHOLE NEAR THE GROUND SURFACE. THE METHOD USED FOR ITS CORRECTION INCLUDES:

A. EXCAVATING THE OVERLYING SOIL FROM AROUND THE SURFACE TO THE EXTENT NECESSARY TO DETERMINE THE APPROPRIATE CORRECTION METHOD AND TO EXPOSE A COMPETENT LIMESTONE BEDROCK LEDGE AROUND THE SINKHOLE.
B. PLUGGING THE SHALLOW HOLE WITH CONCRETE.
C. BACKFILLING OVER THE CONCRETE WITH COMPACTED SOIL (PREFERABLY CLAY) TO THE SURROUNDING GROUND SURFACE.

EACH SINKHOLE PRESENTS A SLIGHTLY DIFFERENT SITUATION AND CORRECTIVE METHODS WILL VARY. REGARDLESS OF THE METHOD USED, SURFACE DRAINAGE MUST BE DIRECTED FROM THE CORRECTED SINKHOLE AND EXTREME CARE MUST BE TAKEN TO COMPLETELY SEAL THE SINKHOLE AND THEREBY PREVENT ANY REOCCURANCE.

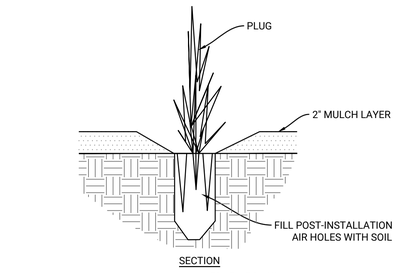
A PROFESSIONAL GEOLOGIST OR SOILS ENGINEER SHALL BE CONSULTED DURING CONSTRUCTION ACTIVITY IN THE VICINITY OF ANY KNOWN CLOSED DEPRESSIONS, SINK HOLES, ROCK OUTCROPS, FRACTURE TRACES, ETC., OR IF ANY ABNORMAL SOIL OR SUBGRADE CONDITIONS ARE ENCOUNTERED ELSEWHERE ON THE SITE. ANY PREVENTATIVE AND/OR CORRECTIVE MEASURES TO BE TAKEN WILL BE DONE AS DIRECTED BY THE PROFESSIONAL GEOLOGIST OR SOILS ENGINEER BASED UPON SITE-SPECIFIC NEEDS DURING THE CONSTRUCTION ACTIVITY.

SINKHOLE REMEDIATION

NOT TO SCALE

GRASSES AND PERENNIALS - MRC CELLS

QTY	BOTANICAL NAME	COMMON NAME	SIZE	NOTE
V1 - 966; V2 - 1,239; V3 - 496; V4 - 372; R3 - 1,288	CAREX LURIDA	SALLOW SEDGE	5" PLUG	PLANT 24"-36" OC
V1 - 966; V2 - 1,239; V3 - 496; V4 - 372; R3 - 1,288	CAREX STRICTA	TUSSOCK SEDGE	5" PLUG	PLANT 24"-36" OC
V1 - 966; V2 - 1,239; V3 - 496; V4 - 372; R3 - 1,288	JUNCUS EFFUSUS	COMMON RUSH	5" PLUG	PLANT 24"-36" OC
V1 - 966; V2 - 1,239; V3 - 496; V4 - 372; R3 - 1,288	ASCLEPIAS INCARNATA	SWAMP MILKWEED	5" PLUG	PLANT 24"-36" OC
V1 - 966; V2 - 1,239; V3 - 496; V4 - 372; R3 - 1,288	EUPATORIUM FISTULASUM	JOE PYE WEED	5" PLUG	PLANT 24"-36" OC
V1 - 966; V2 - 1,239; V3 - 496; V4 - 372; R3 - 1,288	LOBELIA CARDINALIS	CARDINAL FLOWER	5" PLUG	PLANT 24"-36" OC
V1 - 966; V2 - 1,239; V3 - 496; V4 - 372; R3 - 1,288	SOLIDAGO GRAMINIFOLIA	GRASS-LEAVED GOLDENROD	5" PLUG	PLANT 24"-36" OC
V1 - 966; V2 - 1,239; V3 - 496; V4 - 372; R3 - 1,288	VERBENA HASTATA	BLUE VERVAIN	5" PLUG	PLANT 24"-36" OC



PLUG PLANTING

NOT TO SCALE

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
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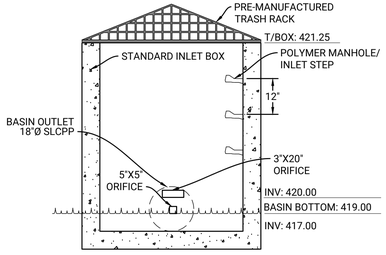
SHEET TITLE

DETAILS

SHEET NO.

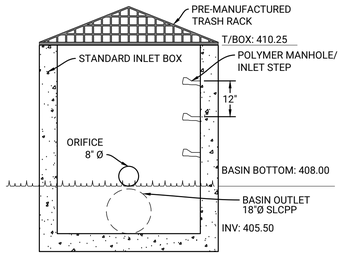
C02 805



LOOKING DOWNSTREAM

BASIN R3 OUTLET STRUCTURE [OS-R3]

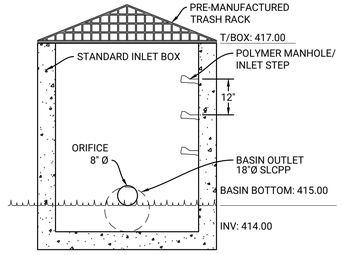
NOT TO SCALE



LOOKING DOWNSTREAM

BASIN V1 OUTLET STRUCTURE [OS-V1]

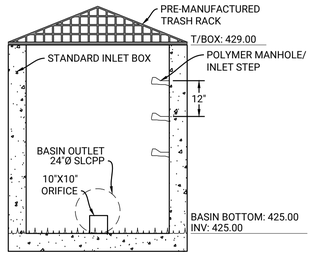
NOT TO SCALE



LOOKING DOWNSTREAM

BASIN V2 OUTLET STRUCTURE [OS-V2]

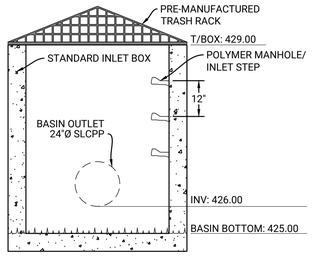
NOT TO SCALE



LOOKING DOWNSTREAM

BASIN V4 OUTLET STRUCTURE [OS-V4]

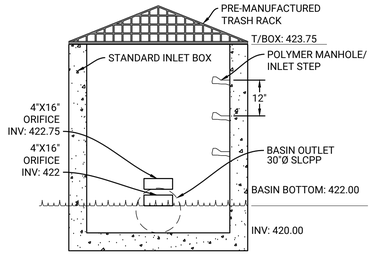
NOT TO SCALE



LOOKING DOWNSTREAM

BASIN V4 EMERGENCY OUTLET STRUCTURE [OS-V5]

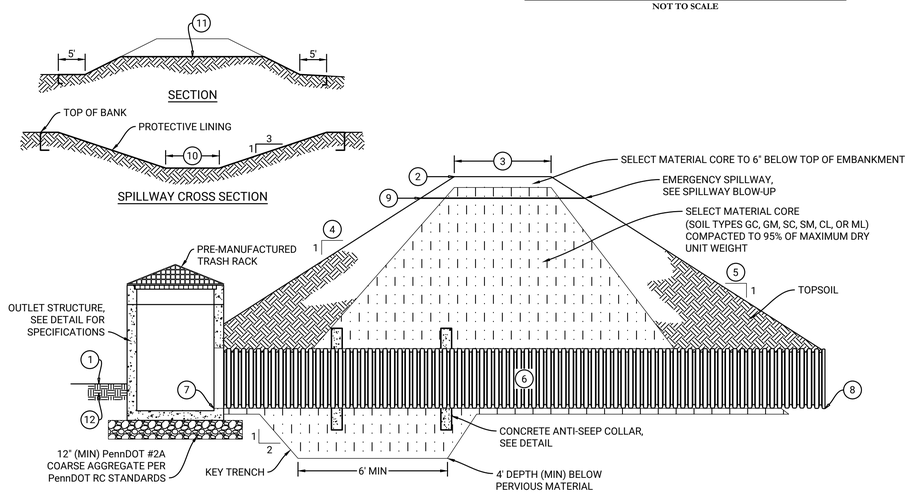
NOT TO SCALE



LOOKING DOWNSTREAM

BASIN V3 OUTLET STRUCTURE [OS-V3]

NOT TO SCALE



BASIN CROSS SECTION

BASIN KEY	BASIN FEATURE	BASIN R3	BASIN V1	BASIN V2	BASIN V3	BASIN V4
1	BASIN BOTTOM ELEVATION	419.00	408.00	415.00	422.00	425.00
2	BERM ELEVATION	424.00	412.50	420.50	427.50	430.50
3	BERM WIDTH	8'	8'	8'	8'	8'
4	BASIN SIDE SLOPE-INSIDE (Z:1)	3	3	3	3	3
5	BASIN SIDE SLOPE-OUTSIDE (Z:1)	3	3	3	3	3
6	OUTLET PIPE	18"	18"	18"	30"	24"
7	INFLOW INVERT ELEVATION	417.00	405.5	414.00	420.00	425.00
8	OUTFLOW INVERT ELEVATION	416.61	403.78	412.81	417.40	423.00
9	SPILLWAY ELEVATION	422.75	411.00	419.25	426.00	429.00
10	SPILLWAY WIDTH	100'	100'	120'	150'	2'X4' STANDARD INLET BOX
11	SPILLWAY LINING	SHOREMAX W/SC250	SHOREMAX W/SC250	SHOREMAX W/SC250	SHOREMAX W/SC250	N/A
12	AMENDED SOIL DEPTH	42"	42"	42"	42"	42"

MRC BASIN

NOT TO SCALE

COMPOST

NOTE: TO ADJUST ORGANIC CONTENT, PLANTING SOIL MAY BE AMENDED, PRIOR TO PLACING AND FINAL GRADING, WITH THE ADDITION OF ORGANIC COMPOST. ORGANIC COMPOST AMENDMENTS ARE PREFERRED, BUT MANURE OR MUSHROOM COMPOST MAY BE USED. LAWN WASTE COMPOST IS NOT RECOMMENDED.

PARAMETER	SPECIFICATION
ORGANIC AMENDMENTS	• ORGANIC COMPOST AMENDMENTS SHOULD MEET THE FOLLOWING CRITERIA: - COMPOST SHOULD BE DERIVED FROM PLANT MATERIAL AND MEET THE GENERAL CRITERIA SET FORTH BY THE U.S. COMPOSTING SEAL OF TESTING ASSURANCE (STA) PROGRAM. - THE MATERIAL SHOULD BE WELL COMPOSTED, FREE OF VIABLE WEED SEEDS, AND STABLE WITH REGARD TO OXYGEN CONSUMPTION AND CARBON DIOXIDE GENERATION. - THE COMPOST SHOULD HAVE A MOISTURE CONTENT THAT HAS NO VISIBLE FREE WATER OR DUST PRODUCED WHEN HANDLING THE MATERIAL.
MANURE	• MANURE SHOULD BE AGED AND MEET THE FOLLOWING CRITERIA: - 98% PASSING THROUGH A 0.5-INCH SCREEN. - PH BETWEEN 6.0 AND 8.0 S.U. - MANUFACTURED INERT MATERIAL (E.G., PLASTIC, CONCRETE, CERAMICS, METAL, ETC.) OF LESS THAN 1.0% BY WEIGHT. - ORGANIC MATTER BETWEEN 30 AND 65% BY WEIGHT. - SOLUBLE SALT CONTENT LESS THAN 5.0 MILLIMHOS PER CENTIMETER. - CARBON TO NITROGEN (C:N) RATIO LESS THAN 25:1. - EPA 40 CFR PART 503 LEVELS FOR HEAVY METALS. - OPTIMUM DRY BULK DENSITY RANGING FROM 40 – 50 LBS/FT3; HOWEVER, CERTAIN FULLY MATURE COARSE TEXTURED COMPOSTS MAY BE LOWER.
MUSHROOM COMPOST	• MUSHROOM COMPOST SHOULD BE AGED AND MEET THE FOLLOWING CRITERIA: - A PH BETWEEN 6.0 AND 7.0 S.U. - SODIUM ADSORPTION RATIO (SAR) OF THE PRODUCE OR MATERIAL SHOULD BE LESS THAN 15 AS CALCULATED BELOW: [ ] = [^{2}]/√([^{2}] + [^{2}])/2 WHERE: [NA^{+}] IS THE CONCENTRATION OF SODIUM IN MILLIEQUIVALENTS PER LITER (MEQ/L) [CA^{2+}] IS THE CONCENTRATION OF CALCIUM IN MEQ/L [MG^{2+}] IS THE CONCENTRATION OF MAGNESIUM IN MEQ/L - MOISTURE CONTENT OF 35 TO 55% (WET WEIGHT) FOR SOLIDS AND 45 TO 65% (WET WEIGHT) FOR MOISTURE. - C:N RATIO SHOULD BE WITHIN THE RANGE OF 10:1 TO 15:1. - NITROGEN CONTENT BETWEEN 1 TO 3%.

WATER QUALITY BMP - COMPOST SPECIFICATION FOR AMENDED SOIL

NOT TO SCALE

SOIL MEDIA

NOTE: ON-SITE SOILS MAY SERVE AS ADEQUATE MEDIA FOR A VEGETATED SCM IF IT MEETS THE FOLLOWING DESIGN RECOMMENDATIONS. OTHERWISE, ON-SITE SOILS MAY BE MODIFIED OR SOILS MAY BE IMPORTED. MIXING OF SOILS FOR THE PURPOSE OF MEETING STORMWATER OBJECTIVES IS CONSIDERED A CRITICAL STAGE OF SCM CONSTRUCTION THAT MUST BE OBSERVED BY A LICENSED PROFESSIONAL OR THEIR DESIGNEE.

PARAMETER	SPECIFICATION
SATURATED HYDRAULIC CONDUCTIVITY	• SATURATED HYDRAULIC CONDUCTIVITY OF MEDIA PLACED IN THE FIELD SHOULD BE BETWEEN 0.5 AND 10 INCHES/HOUR AND TYPICALLY SHOULD NOT BE MORE LIMITING THAN THE UNDERLYING SOIL UNLESS THE UNDERLYING SOIL EXCEEDS 10 INCHES/HOUR. A LICENSED PROFESSIONAL SHOULD CONSIDER THE EFFECTS OF WATER QUALITY TREATMENT AND PLANT SURVIVABILITY FOR MEDIA PLACED WITH A SATURATED HYDRAULIC CONDUCTIVITY BETWEEN FIVE TO 10 INCHES/HOUR. • SATURATED HYDRAULIC CONDUCTIVITY TESTS SHOULD BE PERFORMED AT FIELD PLACED OR ANTICIPATED FIELD PLACED DENSITY.
GRADATION AND PLASTICITY	• SOILS SHOULD BE CLASSIFIED BY THE USCS (ASTM D2487-17) TO CONSIDER BEHAVIOR OF THE FINE FRACTION (I.E., PLASTICITY): - A 50-85% TOTAL SAND CONTENT (INCLUDES FINE, MEDIUM AND COARSE SAND) DEFINED BY PARTICLE SIZES BETWEEN 4.75 TO 0.075 MM WITH A MAXIMUM FINE SAND CONTENT OF 15% (AS DEFINED BY PARTICLE SIZES BETWEEN 0.425 AND 0.075 MM) OR A WELL GRADED-SOIL. - A MAXIMUM GRAVEL CONTENT OF 15% DEFINED BY PARTICLE SIZES BETWEEN 4.75 MM AND 75 MM. - A MAXIMUM NON-PLASTIC FINE CONTENT (SILT AND CLAY) OF 30% DEFINED BY PARTICLE SIZES LESS THAN 0.075 MM OR A MAXIMUM FINE CONTENT OF 20% WITH A PLASTICITY INDEX OF LESS THAN 10.
ORGANIC CONTENT	• SOIL MEDIA SHOULD HAVE UP TO 5% ORGANIC MATERIAL AS DETERMINED BY LOSS ON IGNITION (ASTM D2974). SOIL MEDIA WITH LESS THAN 2% ORGANIC MATTER MAY BE DIFFICULT TO SUPPORT SOME PLANT LIFE. AFTER ESTABLISHMENT, PLANTS WILL PROVIDE THEIR OWN ORGANIC MATERIAL THROUGH DECOMPOSING ROOTS AND FOLIAGE.
PH	• MEDIA SHOULD HAVE A PH BETWEEN 6.0 AND 8.5.
OTHER	• THE RECOMMENDED PHOSPHORUS CONTENT OF THE SOIL MEDIA IS BETWEEN 7 – 23 MG/KG. • SOIL MEDIA (INCLUDING IMPORTED MEDIA) SHOULD NOT CONTAIN POLLUTANT CONCENTRATIONS THAT EXCEED 10% OF THE RESIDENTIAL OR NON-RESIDENTIAL MEDIUM SPECIFIC CONCENTRATIONS (MSCS) IN 25 PA. CODE CHAPTER 250 FOR RESIDENTIAL AND NON-RESIDENTIAL SITES, RESPECTIVELY, TO REDUCE CONCERNS RELATED TO POLLUTANT LEACHING, UNLESS HIGHER CONCENTRATIONS ARE A RESULT OF NATURAL BACKGROUND CONDITIONS.

WATER QUALITY BMP - SOIL MEDIA SPECIFICATION FOR AMENDED SOIL

NOT TO SCALE

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

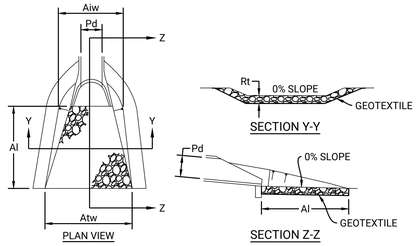
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

DETAILS

SHEET NO.

C02 806

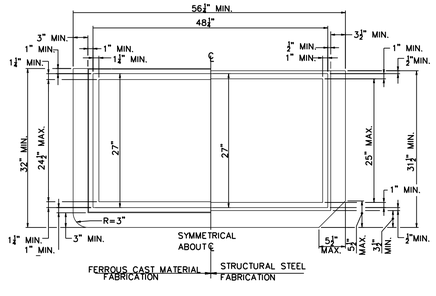


OUTLET No.	PIPE Ø Pd (IN)	RIPRAP		APRON		
		SIZE R-$\frac{2}{+}$	THICK Rt (IN)	LENGTH Al (FT)	INITIAL WIDTH Aiw (FT)	TERMINAL WIDTH Atw (FT)
FES-V1.11	18	R-5	27	16	4.5	20.5
FES-V2.10	18	R-5	27	16	4.5	20.5
FES-V3.7	30	R-6	36	22	7.5	29.5
FES-V4.10	36	R-5	27	20	9.0	29.0
FES-R3.18	18	R-5	27	16	4.5	20.5
FES-V4.1	36	R-5	27	20	9	29
FES-V3.1	48	R-6	36	28	12	40
FES-V2.1	42	R-5	27	22	10.5	32.5
FES-V1.1	48	R-6	36	28	12	40
FES-R3.1	54	R-6	36	32	13.5	45.5
FES-V4.8	24	R-4	18	12	6	18
FES-V4.9	18	R-4	18	8	4.5	12.5
FES-V4.2-4.4	24	R-4	18	12	6	18
FES-V3.3-3.6	24	R-4	18	12	6	18
FES-V2.3-2.9	24	R-4	18	12	6	18
FES-V1.5-1.10	30	R-5	27	16	7.5	23.5
FES-R3.2-3.9	30	R-5	27	18	7.5	25.5

NOTES:
ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.

ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

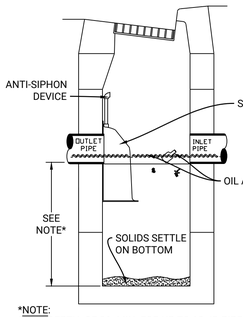
RIPRAP APRON AT PIPE OUTLET W/FLARED END SECTION
STANDARD CONSTRUCTION DETAIL 9-1
NOT TO SCALE



TYPE "C" FRAME
NOT TO SCALE

NOTES:
1. ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY:
   BEST MANAGEMENT PRODUCTS, INC.
   9 MATHEWS DRIVE, UNIT A1-A2.
   EAST HADDAM, CT 06423
   TOLL FREE: (800) 504-8008 OR (888) 434-0277, FAX: (877) 434-3197
   WEB SITE: www.bmpinc.com OR PRE-APPROVED EQUAL
2. ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
3. ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT PIPE AND ELBOW AS DRAWN. (SEE CONFIGURATION DETAIL)
4. THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION (SNOUT SIZE ALWAYS LARGER THAN PIPE SIZE).
5. THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A MINIMUM DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.
6. THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 12" ACCORDING TO STRUCTURE CONFIGURATION.
7. THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL AND PIPE SHALL BE FINISHED FLUSH TO WALL.
8. ALL STRUCTURE JOINTS SHALL BE WATERTIGHT.
9. THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL)
10. INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT. INSTALLATION KIT SHALL INCLUDE:
    A. INSTALLATION INSTRUCTIONS
    B. PVC ANTI-SIPHON VENT PIPE AND ADAPTER
    C. OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
    D. 3/8" STAINLESS STEEL BOLTS
    E. ANCHOR SHIELDS
11. MAINTENANCE:
    THE CATCH BASIN SHOULD BE EMPTIED OF DEBRIS AND THE ACCUMULATED SOLIDS REMOVED AS REQUIRED BY SITE CONDITIONS OR ONCE A YEAR. THE SNOUT® ITSELF REQUIRES NO REAL MAINTENANCE OTHER THAN ROUTINE INSPECTION AND RINSING WITH A HOSE OR PRESSURE WASHER DURING THE CLEANING SEQUENCE OF THE CATCH BASIN AND FLUSHING THE ANTI-SIPHON VENT WITH WATER OR AIR TO VERIFY THAT IT IS CLEAR.

SEE PROFILES FOR LOCATIONS

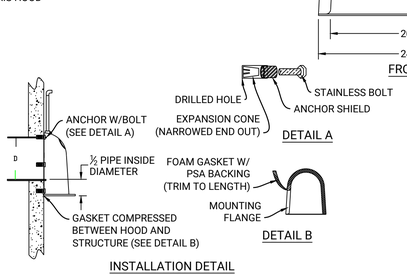


*NOTE:
SUMP DEPTH OF 36" MIN. FOR UP TO 12" ID PIPE. OUTLET. FOR PIPES 15" ID AND ABOVE SUMP DEPTH OF 2.5 TO 3 TIMES PIPE ID RECOMMENDED (E.G. 5' DEEP for 24" PIPE)

TYPICAL INSTALLATION

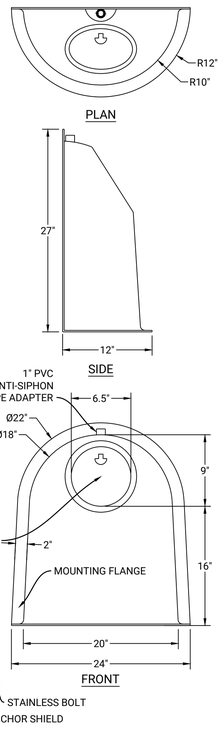
INSTALLATION NOTE:

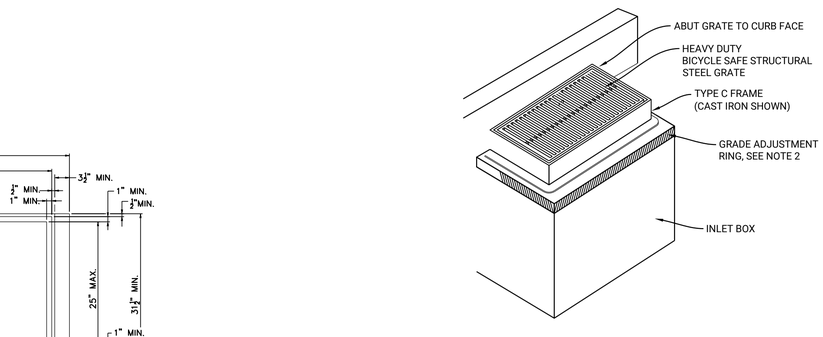
POSITION HOOD SUCH THAT BOTTOM FLANGE IS A DISTANCE OF 1/2 OUTLET PIPE DIAMETER (MIN.) BELOW THE PIPE INVERT. MINIMUM DISTANCE FOR PIPES < 12" I.D. IS 6".



INSTALLATION DETAIL

WATER QUALITY STRUCTURE-SNOUT
NOT TO SCALE



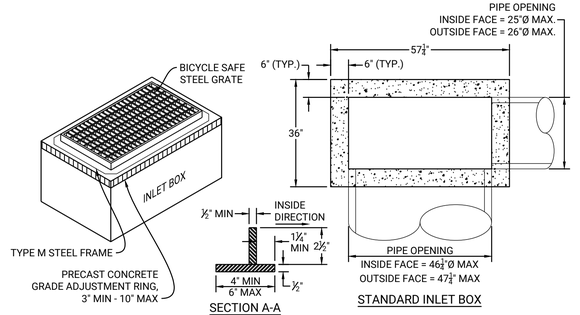


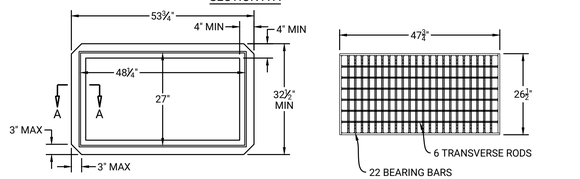
NOTES:
1. CONSTRUCT IN ACCORDANCE WITH REQUIREMENTS OF PUBLICATION 408, SECTION 605, FOR INLET ASSEMBLIES.

2. GRADE ADJUSTMENT RINGS SHALL BE MASONRY OR PRE-CAST CONCRETE CONSTRUCTION.

3. FOR INLETS THAT EXCEED FIVE FEET IN HEIGHT PROVIDE STEPS AT 12" CENTERS MEETING THE REQUIREMENTS OF PUBLICATION 408 SPECIFICATIONS SECTION.

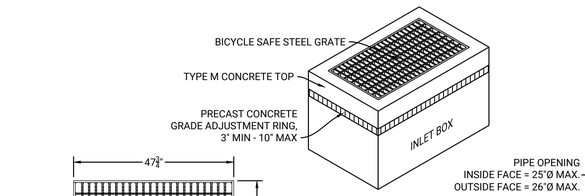
TYPE "C" INLET AND GRATE
NOT TO SCALE

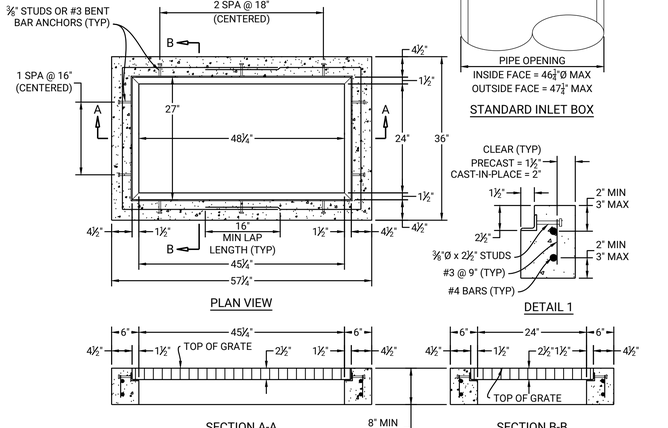




NOTES:
1. PROVIDE MANHOLE STEPS FOR INLETS OVER 4' DEEP IN ACCORDANCE WITH PENNDOT PUBLICATION 72, RC-39M.
2. REFERENCE PENNDOT PUBLICATION 72, RC-45M, FOR ADDITIONAL DETAILS ON THE INLET FRAME AND GRATE AND PRECAST CONCRETE GRADE ADJUSTMENT RINGS.
3. REFERENCE PENNDOT PUBLICATION 72, RC-46M, FOR ADDITIONAL DETAILS ON THE STANDARD INLET BOX.

STANDARD INLET BOX - TYPE M STEEL FRAME
NOT TO SCALE





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3. REFERENCE PENNDOT PUBLICATION 72, RC-46M, FOR ADDITIONAL DETAILS ON THE STANDARD INLET BOX.

STANDARD INLET BOX - TYPE M CONCRETE TOP
NOT TO SCALE

REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT
1	11/26/2025	INITIAL SUBMISSION	RJT

ISSUE / REVISIONS

LIVIC civil
1015 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987.1993
www.liviccivil.com

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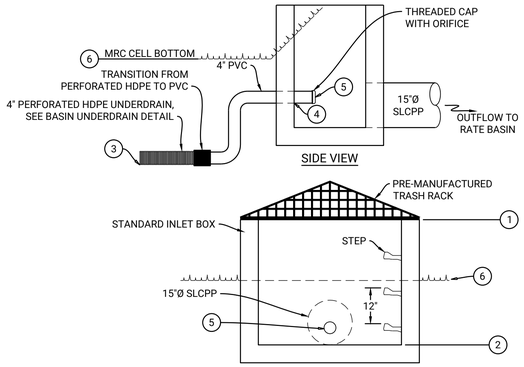
PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT
PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2
MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE
DETAILS

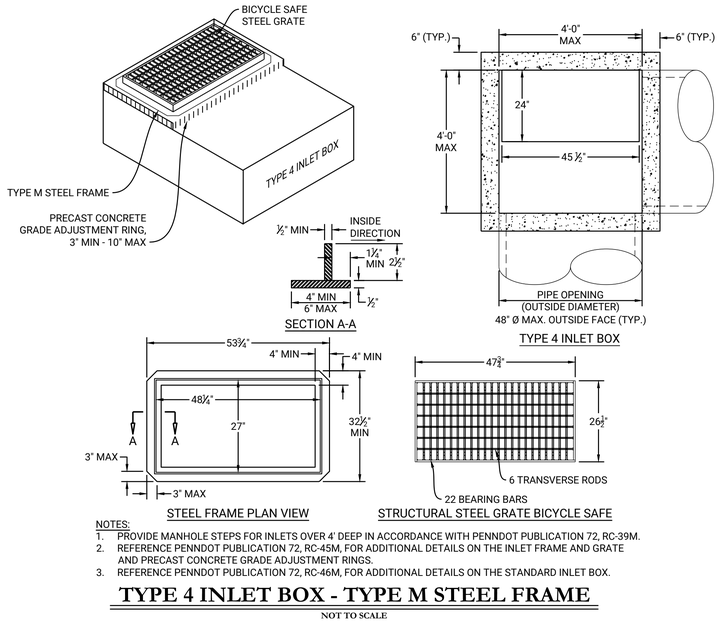
SHEET NO.
C02 807



OS KEY	OUTLET STRUCTURE FEATURE	BASIN R3	BASIN V1	BASIN V2	BASIN V3	BASIN V4
1	TOP OF STRUCTURE	426.50	414.00	422.00	429.50	432.00
2	INVERT OUT	419.71	OS-V1.1: 410.00 OS-V1.2: 410.00 OS-V1.3: 408.80 OS-V1.4: 409.25 OS-V1.5: 409.50 OS-V1.6: 410.00	OS-V2.1: 415.84 OS-V2.2: 416.39 OS-V2.3: 417.02 OS-V2.4: 417.46 OS-V2.5: 417.98 OS-V2.6: 418.37 OS-V2.7: 418.75	OS-V3.1: 422.63 OS-V3.2: 423.35 OS-V3.3: 423.92 OS-V3.4: 424.46	425.69
3	BASIN UNDERDRAIN INVERT	422.50	410.00	418.00	425.50	428.00
4	BASIN UNDERDRAIN INVERT IN	423.50	411.00	419.00	426.50	429.00
5	ORIFICE DIAMETER	1.00"	1.00"	1.00"	1.00"	1.00"
6	MRC CELL BOTTOM	424.50	412.00	420.00	427.50	430.00

MRC CELL OUTLET STRUCTURE

NOT TO SCALE



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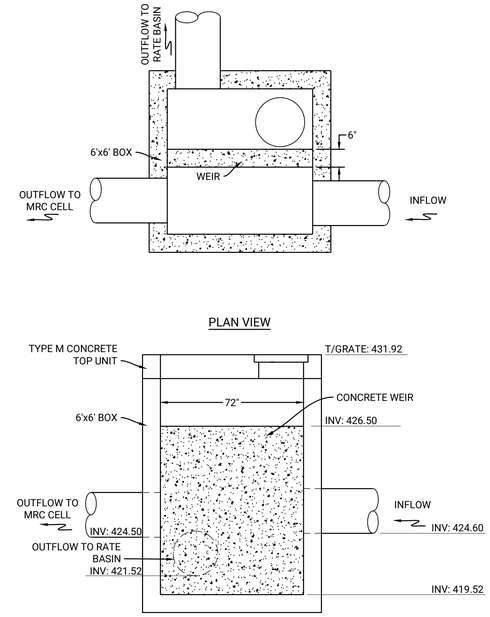
2. REFERENCE PENNDOT PUBLICATION 72, RC-45M, FOR ADDITIONAL DETAILS ON THE INLET FRAME AND GRATE AND PRECAST CONCRETE GRADE ADJUSTMENT RINGS.
3. REFERENCE PENNDOT PUBLICATION 72, RC-46M, FOR ADDITIONAL DETAILS ON THE STANDARD INLET BOX.

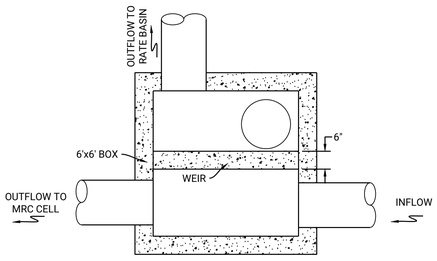
TYPE 4 INLET BOX - TYPE M STEEL FRAME

NOT TO SCALE



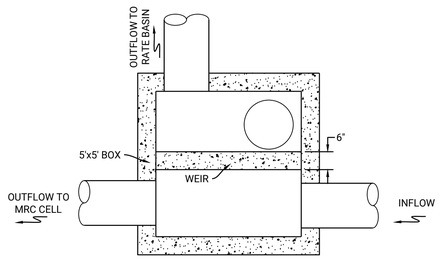
BASIN R3 FLOW SPLITTER STRUCTURE [FS2-5.1]

NOT TO SCALE



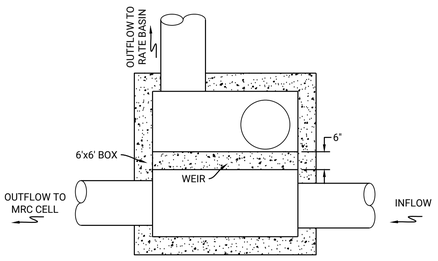
BASIN V1 FLOW SPLITTER STRUCTURE [FS2-4.1]

NOT TO SCALE



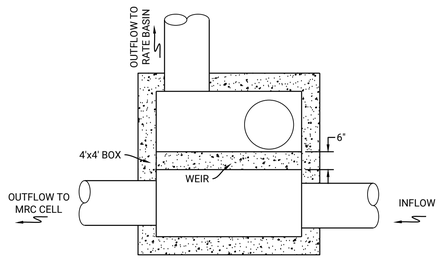
BASIN V2 FLOW SPLITTER STRUCTURE [FS2-3.1]

NOT TO SCALE



BASIN V3 FLOW SPLITTER STRUCTURE [FS2-2.1]

NOT TO SCALE



BASIN V4 FLOW SPLITTER STRUCTURE [FS2-1.1]

NOT TO SCALE

REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT
1	11/26/2025	INITIAL SUBMISSION	RJT

ISSUE / REVISIONS

LIVIC civil
1015 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987.1993
www.liviccivil.com

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

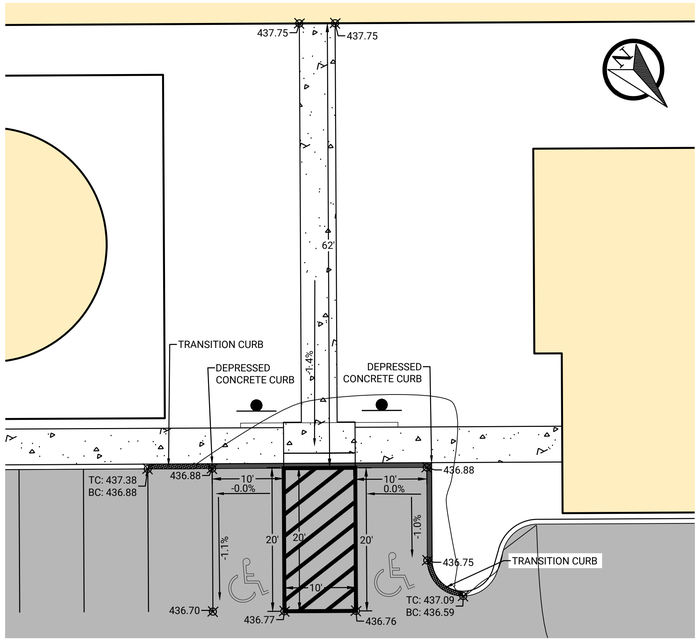
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

DETAILS

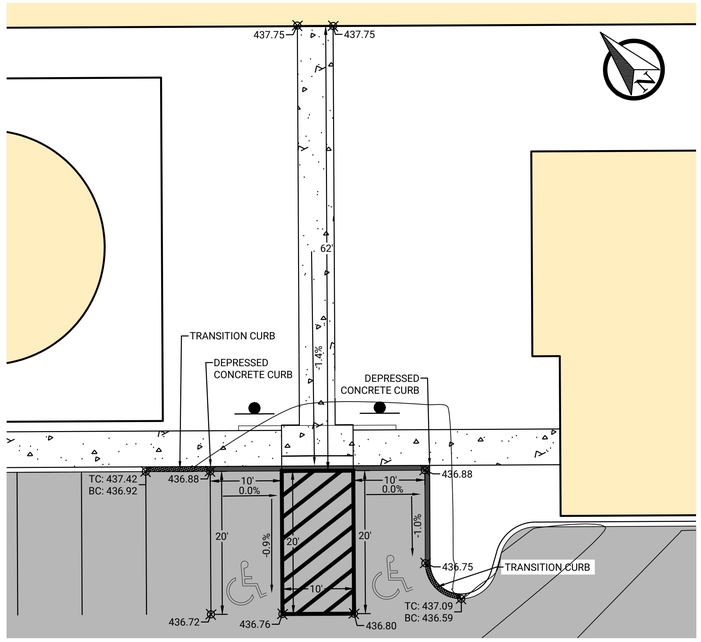
SHEET NO.

C02 808



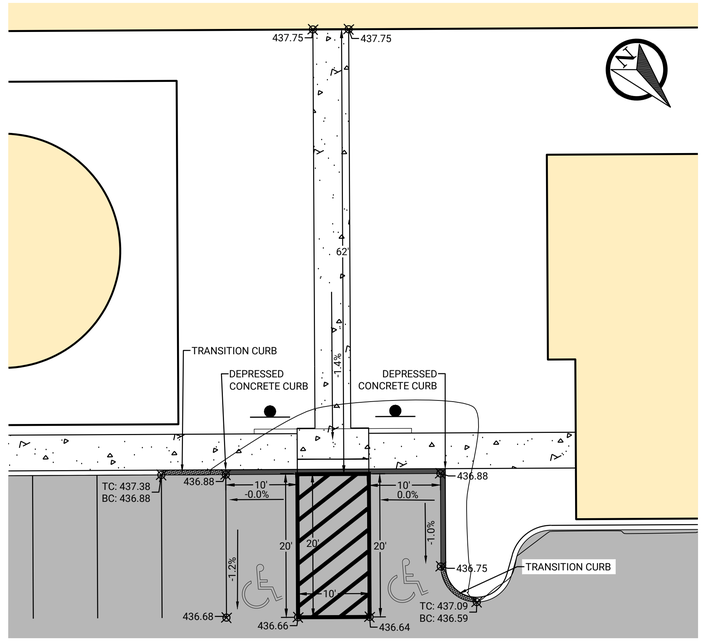
BUILDING A - ADA DETAIL

SCALE: 1" = 10'



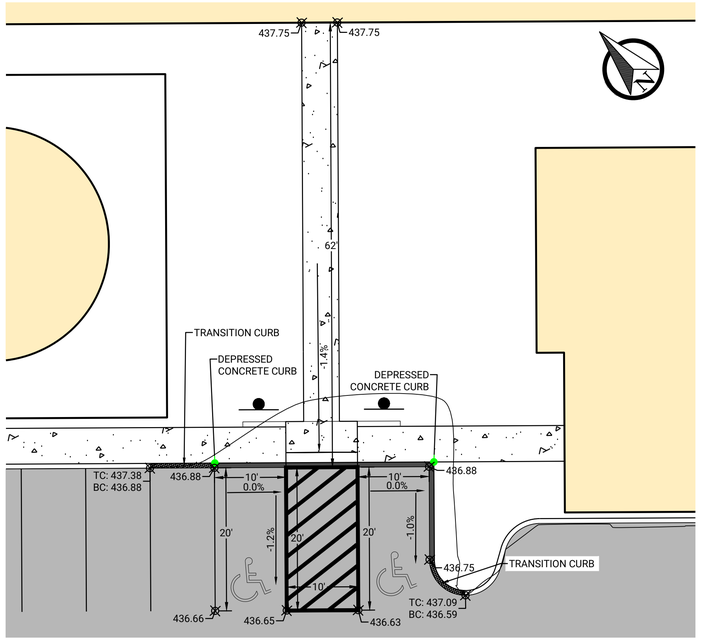
BUILDING B - ADA DETAIL

SCALE: 1" = 10'



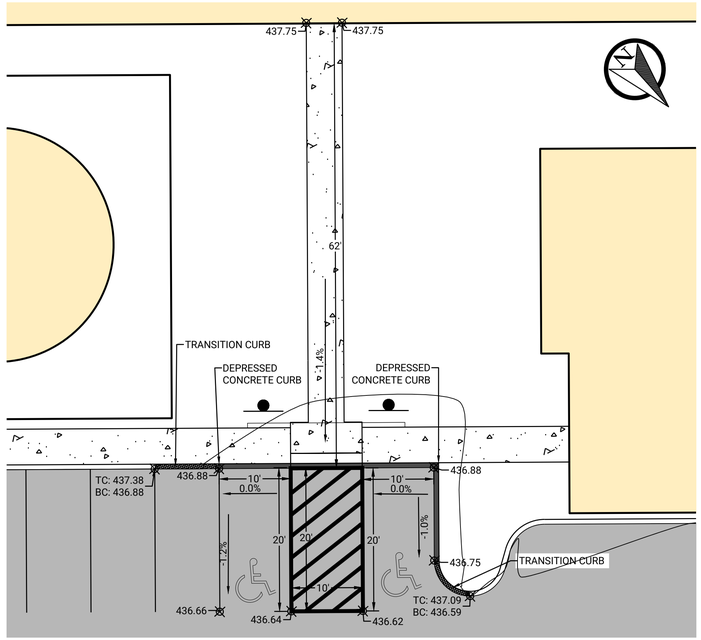
BUILDING C - ADA DETAIL

SCALE: 1" = 10'



BUILDING D - ADA DETAIL

SCALE: 1" = 10'



BUILDING E - ADA DETAIL

SCALE: 1" = 10'

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT	JHR
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT	JHR
1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

ISSUE / REVISIONS

LIVIC civil
1015 MUMMA ROAD
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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

ADA DETAILS

SHEET NO.

C02 809

OPERATION AND MAINTENANCE OF STORMWATER BMPS

RESPONSIBLE PARTY

CARLISLE DEVELOPMENT PARTNERS, LLC

1660 INTERNATIONAL DRIVE

MCLEAN, VA 22102

PHONE: (703)234-3056

BMPS TO BE OPERATED AND MAINTAINED

BMP MRC BASINS R3, V1, V2, V3, AND V4 - SEE PLAN SHEETS C02 301 TO C02 306 AND DETAIL SHEETS C02 806 AND C02 808

A. OPERATION:

- COLLECTS RUNOFF FROM TRIBUTARY DRAINAGE AREAS
- PROVIDES STORAGE CAPACITY FOR RUNOFF
- TREATS PONDING WATER THROUGH AMENDED SOIL WHICH PROVIDES WATER QUALITY AND EVAPOTRANSPIRATION PRIOR TO DISCHARGE INTO GROUNDWATER TABLE AND OUTLET PIPE DISCHARGE
- REDUCE VOLUME OF RUNOFF DISCHARGING ON OR OFF THE PROPERTY
- DETAINS (ATTENUATES, CHOKES OFF) RUNOFF RATE OF DISCHARGE FROM BASIN AND THE PROPERTY

B. REQUIRED MAINTENANCE - MRC CELL AND RATE BASIN

- UPGRADIENT CATCH BASINS, INLETS, AND SNOUTS SHOULD BE INSPECTED AND CLEANED ANNUALLY, OR MORE OFTEN IF HISTORICAL MAINTENANCE RECORDS SUGGEST A MORE FREQUENT CLEANING.
- INSPECT AND CLEAN, AS NECESSARY, MANAGED RELEASE ORIFICES TO PREVENT BLOCKAGES, ON A ROUTINE BASIS (MONTHLY OR QUARTERLY BASED ON OPERATING EXPERIENCE).
- THE VEGETATION (FOR THE MRC SCM AND CONTRIBUTING DRAINAGE AREA) SHOULD BE MAINTAINED IN GOOD CONDITION, AND ANY BARE SPOTS REVEGETATED.
- CARE SHOULD BE TAKEN TO AVOID EXCESSIVE COMPACTION BY MOWERS. MOW ONLY AS APPROPRIATE FOR VEGETATIVE SPECIES. IN GENERAL, WHEN THE OVERALL VEGETATION REACHES 18"-24", USE A STRING TRIMMER TO TRIM THE MEADOW TO 8".
- INSPECT AT LEAST TWO TIMES PER YEAR AFTER RUNOFF EVENTS GREATER THAN 1 INCH AND MAKE SURE THAT RUNOFF DRAINS DOWN WITHIN 72 HOURS AFTER THE RAIN EVENT.
- AT LEAST TWO TIMES PER YEAR, OR MORE IF HISTORICAL MAINTENANCE INDICATE IT IS NECESSARY, INSPECT FOR ACCUMULATION OF SEDIMENT, DAMAGE TO OUTLET CONTROL STRUCTURES, EROSION, SIGNS OF WATER CONTAMINATION/SPILLS, AND INSTABILITY. LEAF LITTER NEEDS TO BE REMOVED ANNUALLY.
- AS NEEDED, REMOVE ACCUMULATED SEDIMENT AS REQUIRED TO MAINTAIN INFILTRATION THROUGH THE MRC SOIL MEDIA AND TO MAINTAIN WATER QUALITY FUNCTIONALITY. RESTORE ORIGINAL CROSS SECTION. PROPERLY DISPOSE OF SEDIMENT.
- ALL MRC SCM COMPONENTS SHOULD BE MAINTAINED AS INDICATED IN THE STORMWATER BMP MANUAL.
- AS NOTED ABOVE, IF THE MRC SCM WILL MANAGE PEAK FLOWS IN EXCESS OF THE 2-YEAR/24-HOUR STORM EVENT, AN INCREASED INSPECTION AND MAINTENANCE FREQUENCY WILL BE NECESSARY.

SNOUTS

A. OPERATION:

- PROVIDES PRE-TREATMENT OF RUNOFF PRIOR TO DISCHARGING INTO THE MRC CELLS

B. REQUIRED MAINTENANCE - SNOUT

- THE CATCH BASIN SHOULD BE EMPTIED OF DEBRIS AND THE ACCUMULATED SOLIDS REMOVED AS REQUIRED BY SITE CONDITIONS OR ONCE A YEAR. THE SNOUT® ITSELF REQUIRES NO REAL MAINTENANCE OTHER THAN ROUTINE INSPECTION AND RINSING WITH A HOSE OR PRESSURE WASHER DURING THE CLEANING SEQUENCE OF THE CATCH BASIN AND FLUSHING THE ANTI-SIPHON VENT WITH WATER OR AIR TO VERIFY THAT IT IS CLEAR.

CONVEYANCE PIPE SYSTEM

A. OPERATION:

- COLLECTS RUNOFF FROM TRIBUTARY DRAINAGE AREAS VIA INLETS AND HEADWALLS
- DIRECT RUNOFF TOWARDS APPROPRIATE STORMWATER FACILITY

B. REQUIRED MAINTENANCE - SEMIANNUAL - INLETS AND PIPES

- REMOVE TRASH, DEBRIS, AND SEDIMENT FROM THE SURFACE THAT IS BLOCKING OR IMPEDING FLOW OF WATER INTO INLET.
- REMOVE SEDIMENT, TRASH, AND DEBRIS BUILDUP FROM AROUND THE SUMP AREA USING A VACUUM TRUCK OR OTHER APPROPRIATE METHOD.
- REMOVED ANY VEGETATION THAT IMPEDING FLOW INTO THE INLET GRATE
- INSPECT PIPE CONVEYANCE LINES FOR BLOCKAGES AND REMOVE ANY DEBRIS AND SEDIMENT BUILDUP FROM THE PIPING SYSTEM.
- INSPECT JOINTS FOR SEPARATION AND REPAIR PER MANUFACTURES SPECIFICATION FOR THE PIPE MATERIAL.

ASSURANCE OF EFFECTIVENESS OF BMPS

MIDDLESEX TOWNSHIP HAS THE ABILITY TO TAKE CORRECTIVE MEASURES IF IT IS DETERMINED AT ANY TIME THAT THE STIPULATED PERMANENT BMP(S) HAVE BEEN ELIMINATED, ALTERED, OR IMPROPERLY MAINTAINED, INCLUDING THE ABILITY OF MIDDLESEX TOWNSHIP TO CAUSE WORK TO BE DONE AND LIEN ALL COST AGAINST THE PROPERTY SHOULD REQUIRED CORRECTIVE MEASURES NOT BE TAKEN BY THE RESPONSIBLE PARTY (LISTED ABOVE), FOLLOWING WRITTEN NOTIFICATION, WITHIN A PERIOD OF TIME SET BY THE MIDDLESEX TOWNSHIP BOARD OF SUPERVISORS.

ACCESS AND/OR DRAINAGE EASEMENTS

BMPS DESCRIBED HEREON ARE PROTECTED FROM DAMAGE, OBSTRUCTION AND REMOVAL BY DRAINAGE EASEMENTS AND PROVIDE FOR ACCESS TO BMPS FOR INSPECTION AND MAINTENANCE PURPOSES. SAID EASEMENTS ARE FOUND AND DESCRIBED ON PLAN SHEETS C02 001 AND C02 012.

RECORD KEEPING

PARTIES RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF BMPS SHALL MAKE RECORDS OF THE INSTALLATION AND OF ALL MAINTENANCE, INSPECTIONS, AND REPAIRS AND SHALL RETAIN THE RECORDS FOR AT LEAST TEN (10) YEARS. THESE RECORDS SHALL BE SUBMITTED TO MIDDLESEX TOWNSHIP AS ESTABLISHED BY THE OPERATION AND MAINTENANCE PLAN OR AS OTHERWISE REQUIRED BY THE MIDDLESEX TOWNSHIP BOARD OF SUPERVISORS.

INSPECTION

BMPS MUST BE INSPECTED BY RESPONSIBLE PARTY (LISTED ABOVE) OR THE DESIGNEE ACCORDING TO THE FOLLOWING LIST OF MINIMUM FREQUENCIES OR AS OTHERWISE SPECIFIED BY MIDDLESEX TOWNSHIP. ALL INSPECTION REPORTS SHALL BE SUBMITTED TO MIDDLESEX TOWNSHIP ACCORDING TO THE SCHEDULE BELOW WITHIN THIRTY (30) DAYS OF THE DATE OF COMPLETION OF INSPECTION WHICH SHALL BE THE ANNIVERSARY OF COMPLETION OF CONSTRUCTION OF THE BMP AS EVIDENCED BY THE DATE MIDDLESEX TOWNSHIP ENGINEER OR AUTHORIZED DESIGNEE APPROVES THE RECORD (AS-BUILT) DRAWINGS OF THE BMPS.

- ANNUALLY FOR THE FIRST FIVE (5) YEARS.
- ONCE EVERY THREE (3) YEARS THEREAFTER.

OPERATION AND MAINTENANCE AGREEMENT

AN OPERATION AND MAINTENANCE AGREEMENT MUST BE EXECUTED BETWEEN THE RESPONSIBLE PARTY (LISTED ABOVE) AND MIDDLESEX TOWNSHIP CONSISTENT WITH THE EXAMPLE AGREEMENT FOUND IN APPENDIX B OF THE MIDDLESEX TOWNSHIP STORMWATER MANAGEMENT ORDINANCE 6-2011 AS AMENDED.

SUSPENSION OR REVOCATION OF APPROVALS

MIDDLESEX TOWNSHIP MAY SUSPEND OR REVOKE ANY APPROVALS GRANTED FOR THE PROJECT SITE UPON DISCOVERY OF THE FAILURE OF THE OWNER TO COMPLY WITH THIS OPERATION AND MAINTENANCE PLAN.

RECORD DRAWINGS AND RECORDING OF OPERATIONS AND MAINTENANCE PLAN AND OPERATION AND MAINTENANCE AGREEMENT

UPON COMPLETION OF CONSTRUCTION OF ALL BMPS, RECORD (AS-BUILT) DRAWINGS SHALL BE PREPARED AS REQUIRED BY SUBDIVISION AND LAND DEVELOPMENT ORDINANCE SECTION 1409 ORDINANCE 8-2017) AND STORMWATER MANAGEMENT ORDINANCE ARTICLE V SECTION 501.C (ORD. 6-2011 AS AMENDED) WHICH MUST INCLUDE BMPS IN THEIR AS-BUILT CONDITION. AT THAT TIME THE OPERATION AND MAINTENANCE REQUIREMENTS SHOWN HEREON SHALL BE REVIEWED AND UPDATED, IF NECESSARY, TO REFLECT AS-BUILT CONDITIONS. UPON APPROVAL OF THE RECORD (AS-BUILT) DRAWINGS, THE UPDATED O&M PLAN, THE O&M AGREEMENT AND THE REFERENCED DRAWING SHEETS (EXHIBITS) BY THE MIDDLESEX TOWNSHIP ENGINEER, ALL SHALL BE RECORDED AS ONE DOCUMENT IN THE OFFICE OF THE CUMBERLAND COUNTY RECORDER OF DEEDS. SAID RECORDING SHALL TAKE PLACE PRIOR TO MIDDLESEX TOWNSHIP RELEASEING OR REDUCING IMPROVEMENT SECURITY BEING HELD BY THE TOWNSHIP.

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT	JHR
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT	JHR
1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

ISSUE / REVISIONS

LIVIC civil
1015 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987.1993
www.liviccivil.com

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

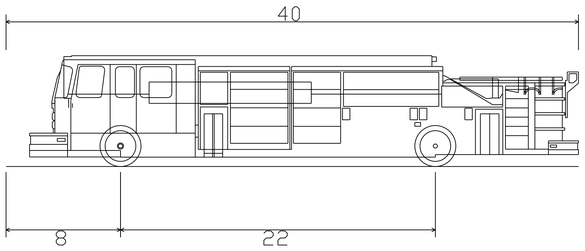
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

OPERATION AND MAINTENANCE PLAN

SHEET NO.

C02 810



Pumper Fire Truck
Overall Length 40.000ft
Overall Width 8.167ft
Overall Body Height 7.745ft
Min Body Ground Clearance 0.656ft
Track Width 8.167ft
Lock-to-lock time 5.00s
Max Wheel Angle 45.00°

MRC CELL
CONTINUE ON SHEET C02 904
CONTINUE ON SHEET C02 902
DATA CENTER BUILDING E FFE 437.75 156,433 SF
DATA CENTER BUILDING D FFE 437.75 156,433 SF
WETLAND 'M'
CHANNEL-03
50 0 50 100 FT
HORIZONTAL SCALE: 1 INCH = 50 FEET

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PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

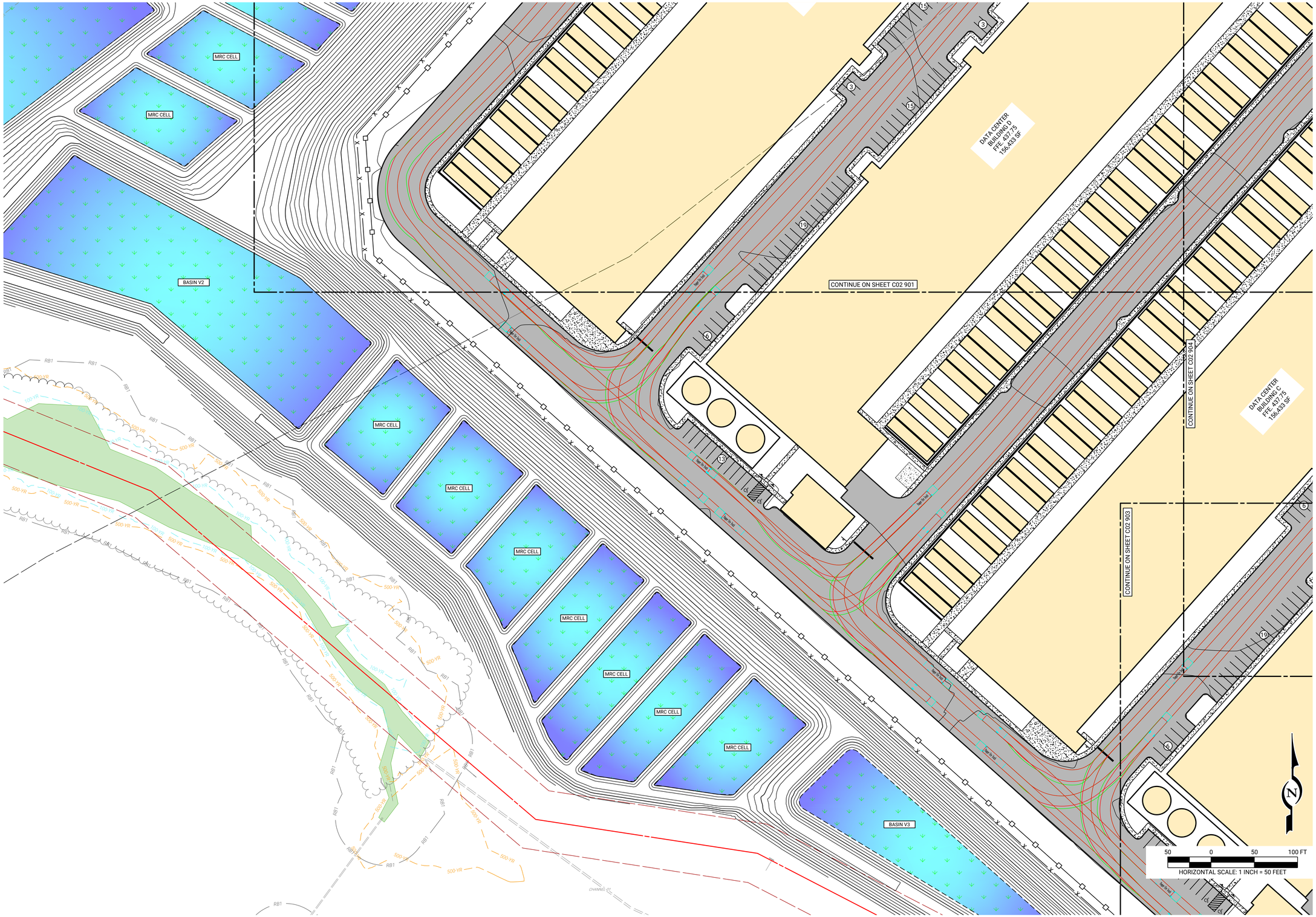
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

TURNING MOVEMENTS 1

SHEET NO.

C02 901



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PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

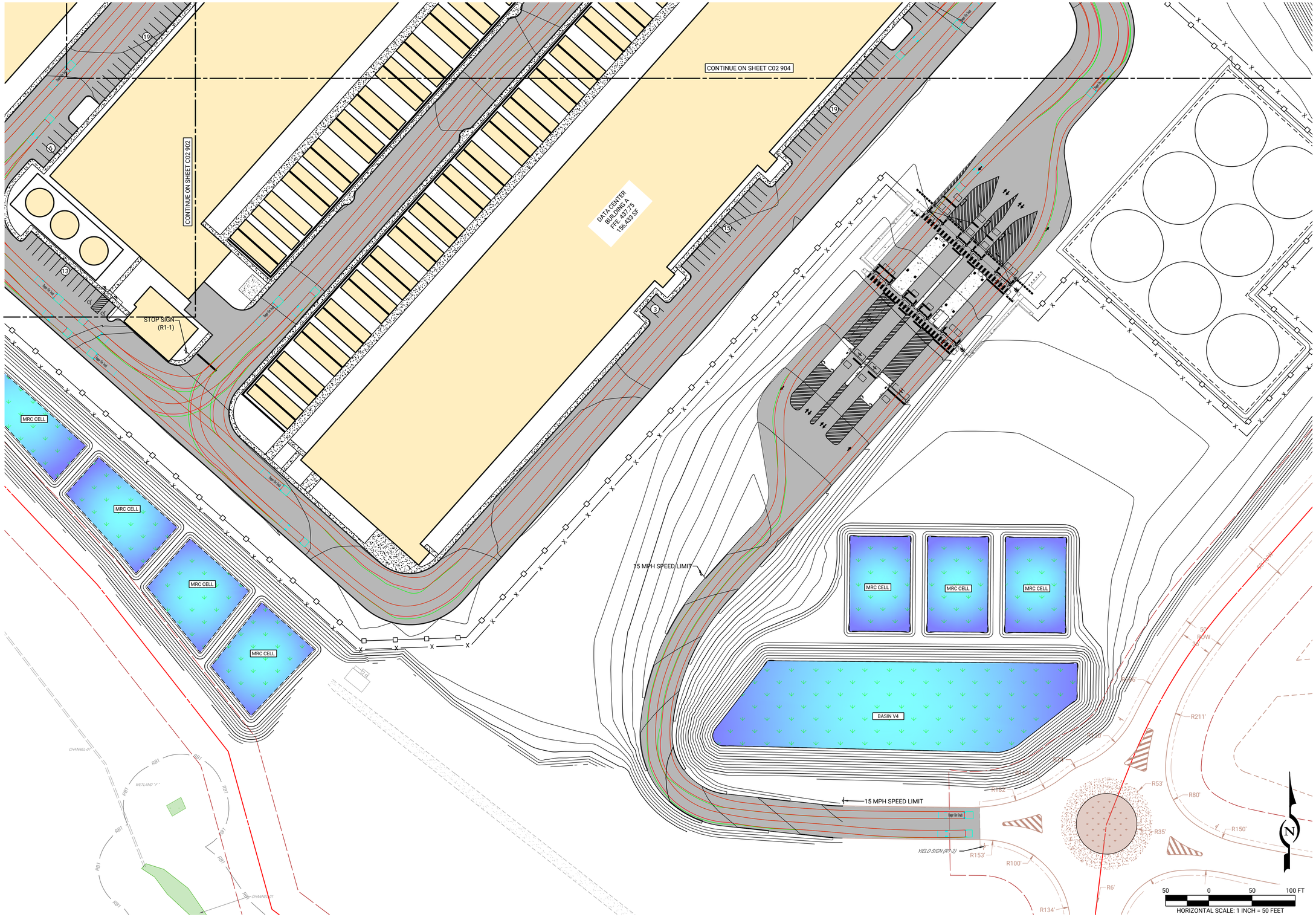
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

TURNING MOVEMENTS 2

SHEET NO.

C02 902



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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

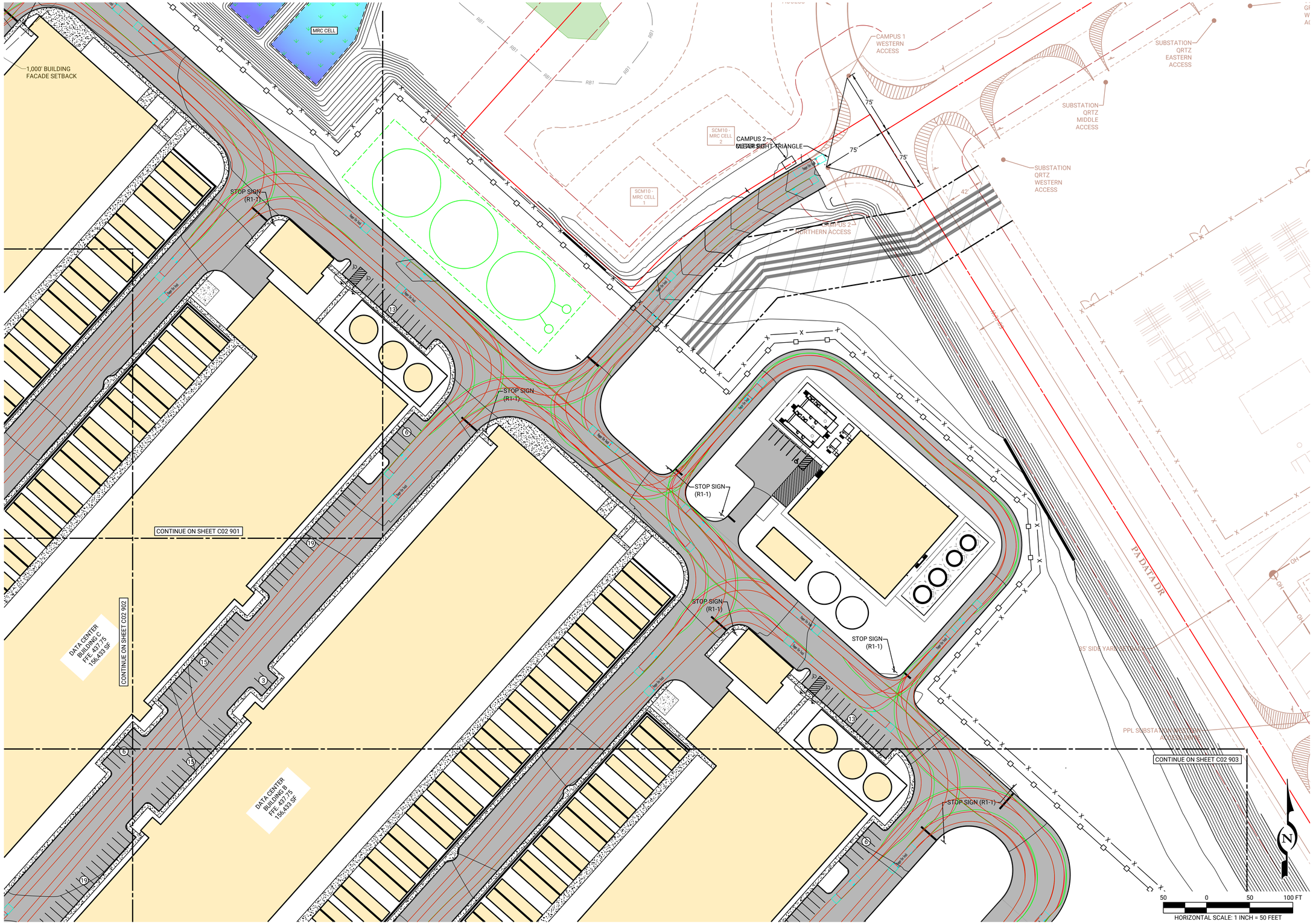
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

TURNING MOVEMENTS 3

SHEET NO.

C02 903



REV	DATE	COMMENTS	BY
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1	11/26/2025	INITIAL SUBMISSION	RJT JHR

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PROJECT No:	1259-01
DATE:	NOVEMBER 25, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

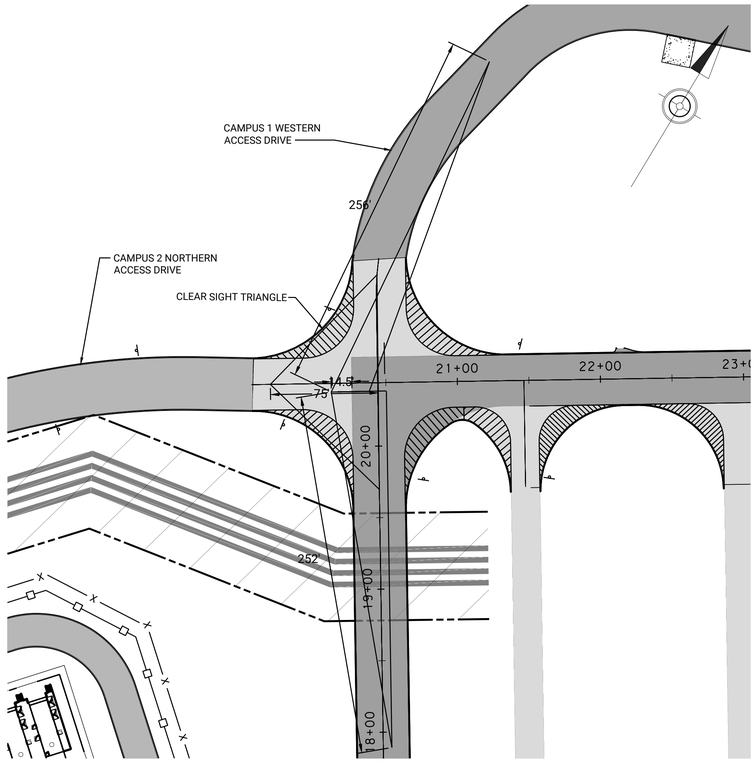
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

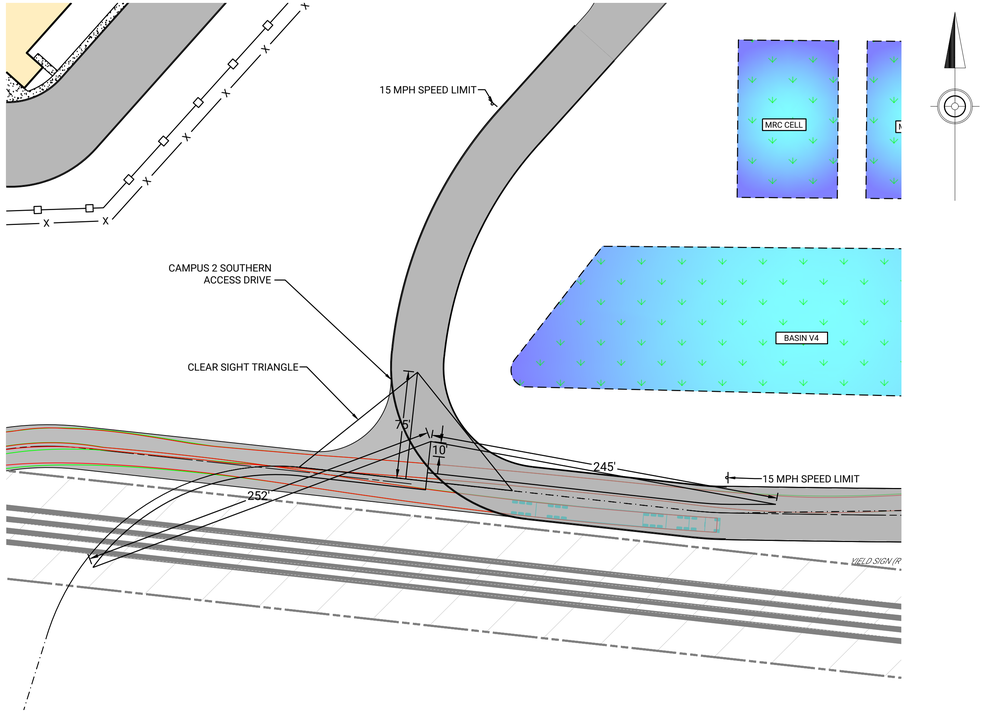
TURNING MOVEMENTS 4

SHEET NO.

C02 904



SIGHT DISTANCE BETWEEN CAMPUS 2
NORTHERN ACCESS DRIVE AND PA DATA DRIVE
1" = 50'



SIGHT DISTANCE BETWEEN CAMPUS 2
SOUTHERN ACCESS DRIVE AND
CAMPUS 3 NORTHERN ACCESS DRIVE
1" = 50'

50 0 50 100 FEET
HORIZONTAL SCALE

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1	11/26/2025	INITIAL SUBMISSION	RJT

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JHR
JHR
JHR
JHR
CHKD

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PROJECT

PENNSYLVANIA
DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP

CUMBERLAND COUNTY

PENNSYLVANIA

CLIENT

CARLISLE
DEVELOPMENT
PARTNERS, LLC

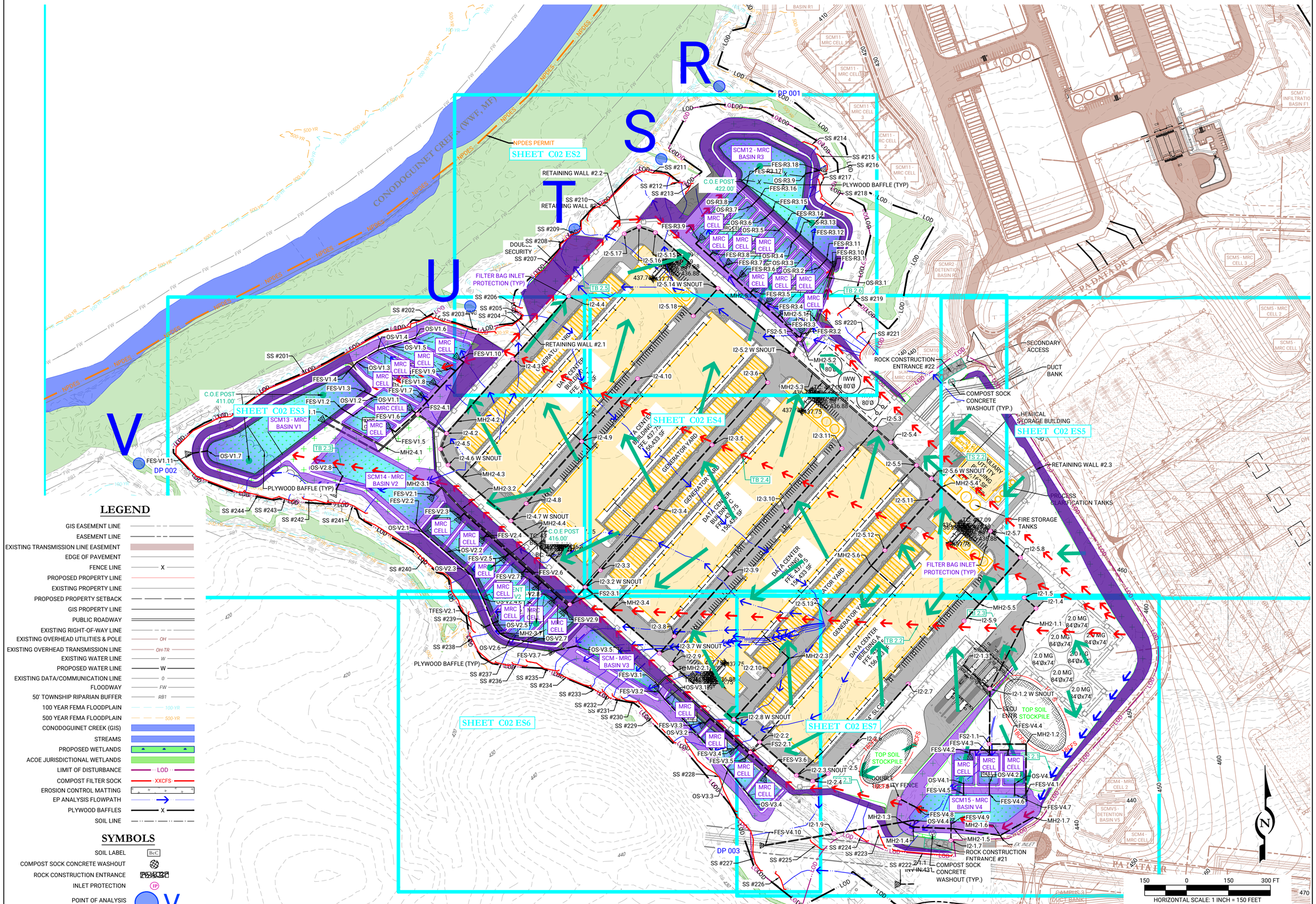
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

SIGHT DISTANCES

SHEET NO.

C02 905



LEGEND

- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- FENCE LINE
- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- GIS PROPERTY LINE
- PUBLIC ROADWAY
- EXISTING RIGHT-OF-WAY LINE
- EXISTING OVERHEAD UTILITIES & POLE
- EXISTING OVERHEAD TRANSMISSION LINE
- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING DATA/COMMUNICATION LINE
- FLOODWAY
- 50' TOWNSHIP RIPARIAN BUFFER
- 100 YEAR FEMA FLOODPLAIN
- 500 YEAR FEMA FLOODPLAIN
- CONODOGUINET CREEK (GIS)
- STREAMS
- PROPOSED WETLANDS
- ACOE JURISDICTIONAL WETLANDS
- LIMIT OF DISTURBANCE
- COMPOST FILTER SOCK
- EROSION CONTROL MATTING
- EP ANALYSIS FLOWPATH
- PLYWOOD BAFFLES
- SOIL LINE

SYMBOLS

- SOIL LABEL
- COMPOST SOCK CONCRETE WASHOUT
- ROCK CONSTRUCTION ENTRANCE
- INLET PROTECTION
- POINT OF ANALYSIS

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PROJECT No:	1258-01
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DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

OVERALL EROSION & SEDIMENT CONTROL PLAN

SHEET NO.

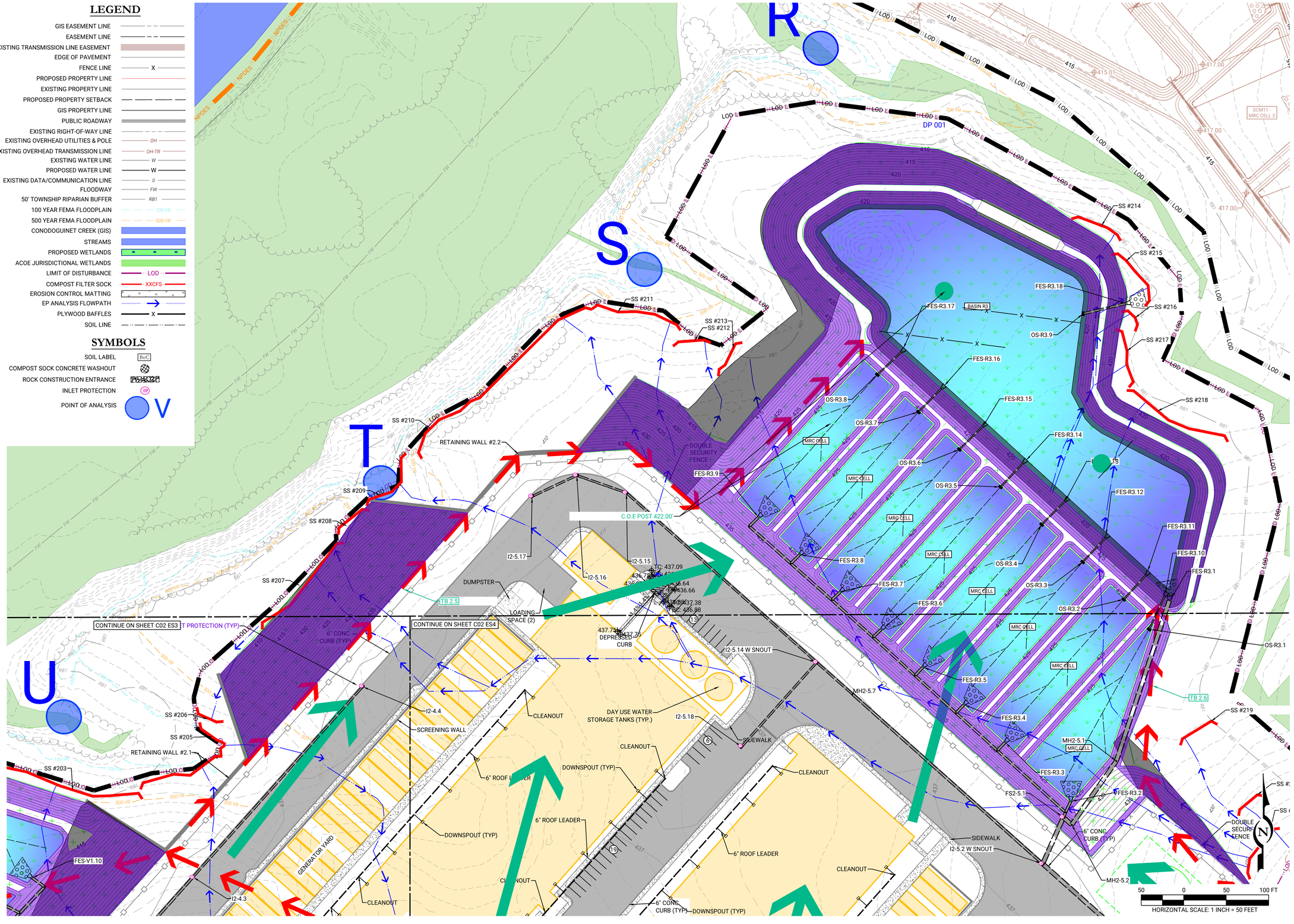
C02 ES1

LEGEND

- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- FENCE LINE
- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- GIS PROPERTY LINE
- PUBLIC ROADWAY
- EXISTING RIGHT-OF-WAY LINE
- EXISTING OVERHEAD UTILITIES & POLE
- EXISTING OVERHEAD TRANSMISSION LINE
- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING DATA/COMMUNICATION LINE
- FLOODWAY
- 50' TOWNSHIP RIPARIAN BUFFER
- 100 YEAR FEMA FLOODPLAIN
- 500 YEAR FEMA FLOODPLAIN
- CONODOGUINET CREEK (GIS)
- STREAMS
- PROPOSED WETLANDS
- ACOE JURISDICTIONAL WETLANDS
- LIMIT OF DISTURBANCE
- COMPOST FILTER SOCK
- EROSION CONTROL MATTING
- EP ANALYSIS FLOWPATH
- PLYWOOD BAFFLES
- SOIL LINE

SYMBOLS

- SOIL LABEL
- COMPOST SOCK CONCRETE WASHOUT
- ROCK CONSTRUCTION ENTRANCE
- INLET PROTECTION
- POINT OF ANALYSIS



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1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

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DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

EROSION & SEDIMENT CONTROL PLAN

SHEET NO.

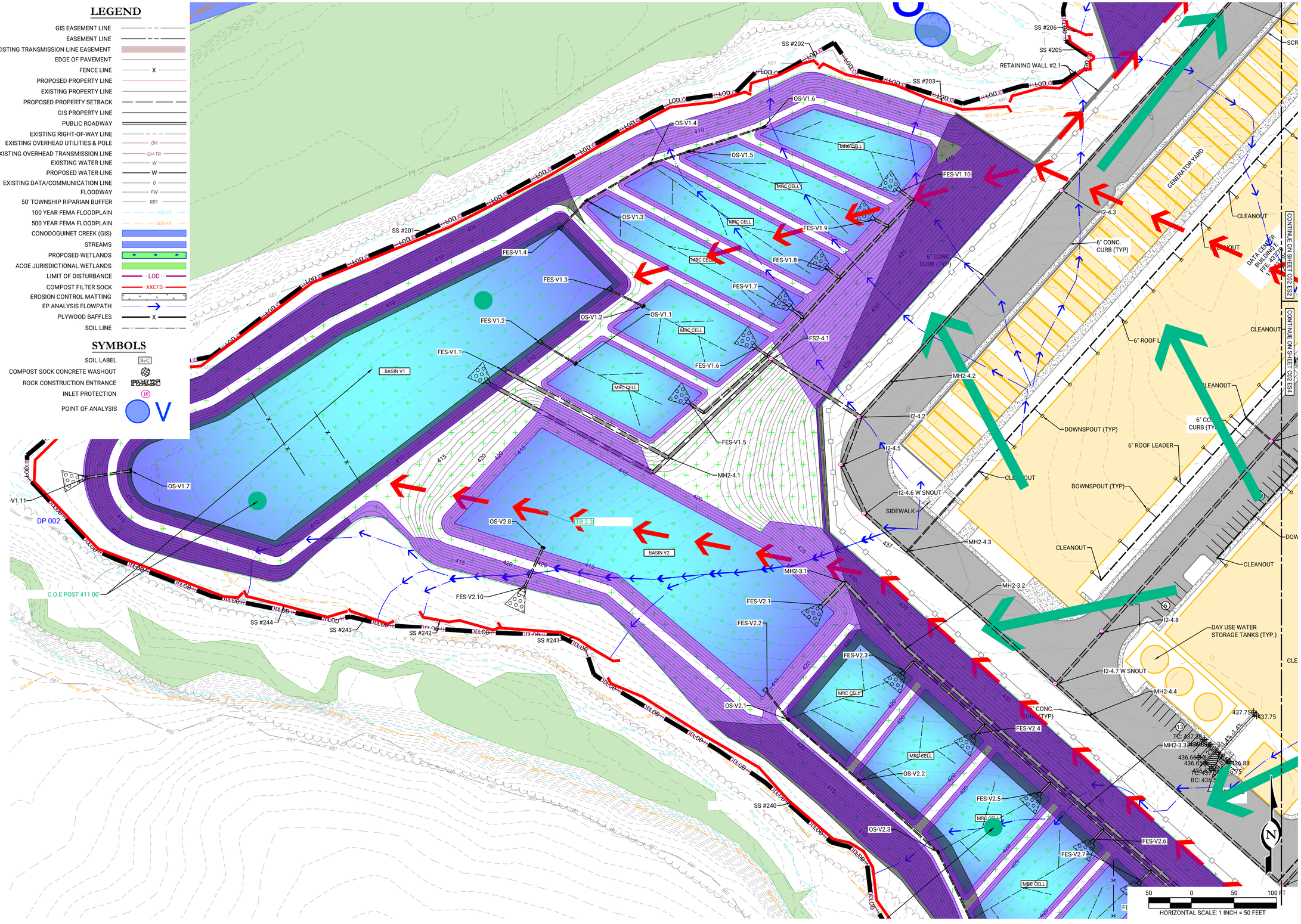
C02 ES2

LEGEND

- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- FENCE LINE — X
- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- GIS PROPERTY LINE
- PUBLIC ROADWAY
- EXISTING RIGHT-OF-WAY LINE
- EXISTING OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD TRANSMISSION LINE — OH-TR
- EXISTING WATER LINE — W
- PROPOSED WATER LINE — W
- EXISTING DATA/COMMUNICATION LINE — 0
- FLOODWAY — FW
- 50' TOWNSHIP RIPARIAN BUFFER — RB1
- 100 YEAR FEMA FLOODPLAIN — 100-YR
- 500 YEAR FEMA FLOODPLAIN — 500-YR
- CONODOGUINET CREEK (GIS)
- STREAMS
- PROPOSED WETLANDS
- ACOE JURISDICTIONAL WETLANDS
- LIMIT OF DISTURBANCE — LOD
- COMPOST FILTER SOCK — XXCFS
- EROSION CONTROL MATTING
- EP ANALYSIS FLOWPATH
- PLYWOOD BAFFLES — X
- SOIL LINE

SYMBOLS

- SOIL LABEL — BcC
- COMPOST SOCK CONCRETE WASHOUT
- ROCK CONSTRUCTION ENTRANCE
- INLET PROTECTION — IP
- POINT OF ANALYSIS — V



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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

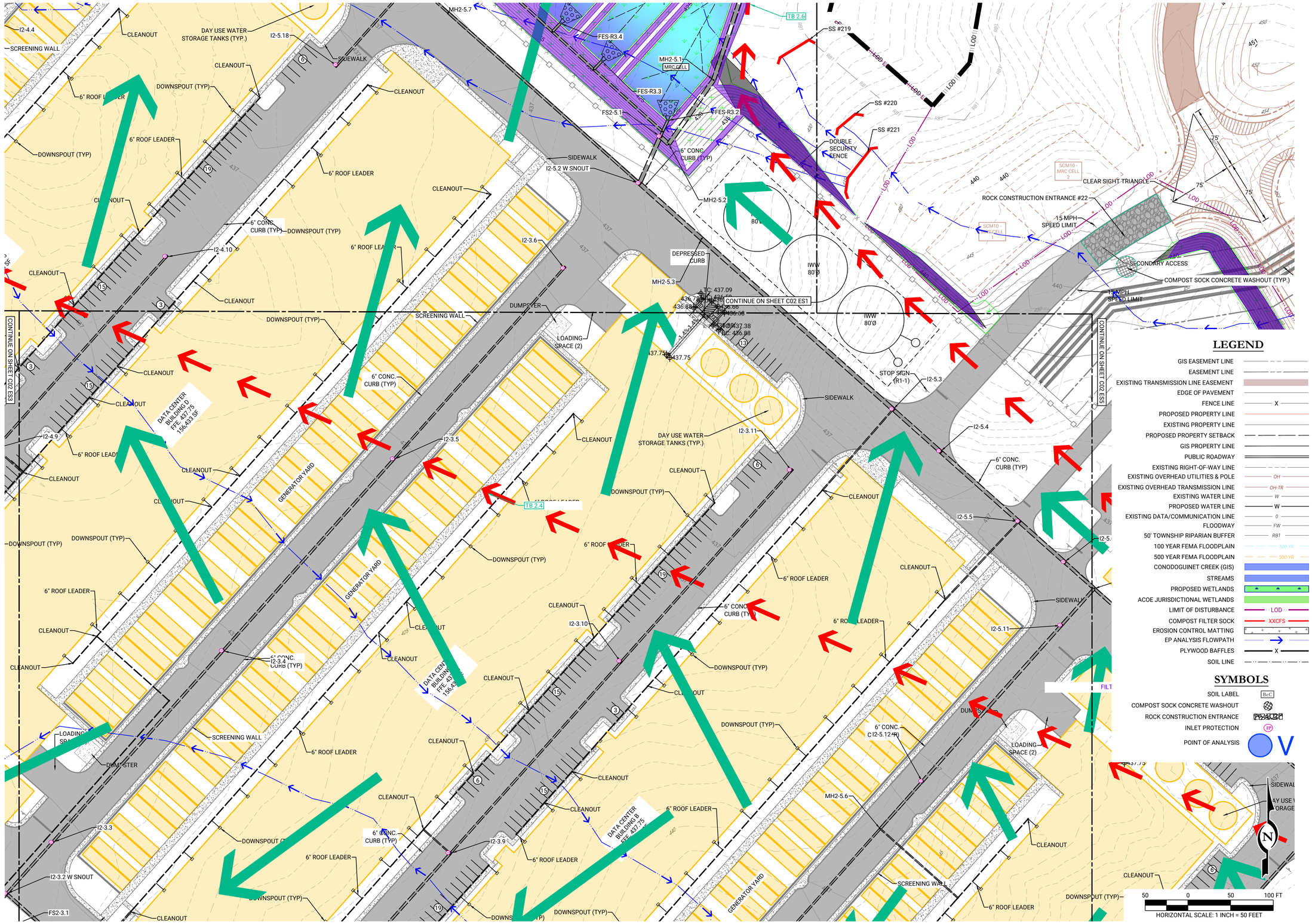
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

EROSION & SEDIMENT CONTROL PLAN

SHEET NO.

C02 ES3



LEGEND

- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- FENCE LINE
- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- GIS PROPERTY LINE
- PUBLIC ROADWAY
- EXISTING RIGHT-OF-WAY LINE
- EXISTING OVERHEAD UTILITIES & POLE
- EXISTING OVERHEAD TRANSMISSION LINE
- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING DATA/COMMUNICATION LINE
- FLOODWAY
- 50' TOWNSHIP RIPARIAN BUFFER
- 100 YEAR FEMA FLOODPLAIN
- 500 YEAR FEMA FLOODPLAIN
- CONODOGUINET CREEK (GIS)
- STREAMS
- PROPOSED WETLANDS
- ACOE JURISDICTIONAL WETLANDS
- LIMIT OF DISTURBANCE
- COMPOST FILTER SOCK
- EROSION CONTROL MATTING
- EP ANALYSIS FLOWPATH
- PLYWOOD BAFFLES
- SOIL LINE

SYMBOLS

- SOIL LABEL
- COMPOST SOCK CONCRETE WASHOUT
- ROCK CONSTRUCTION ENTRANCE
- INLET PROTECTION
- POINT OF ANALYSIS

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT	JHR
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT	JHR
1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

ISSUE / REVISIONS

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PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
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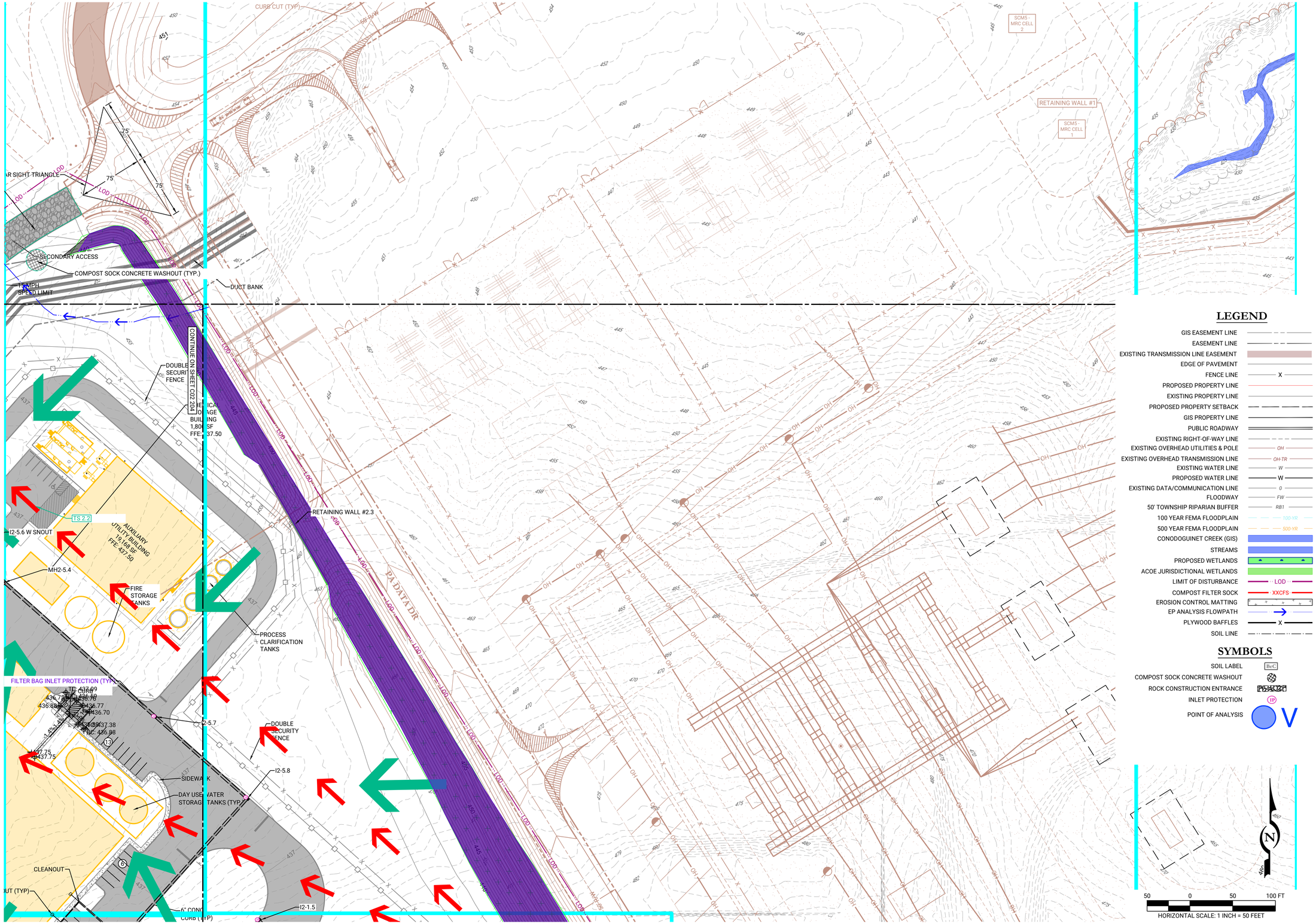
SHEET TITLE

EROSION & SEDIMENT CONTROL PLAN

SHEET NO.

C02 ES4



LEGEND

- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- FENCE LINE
- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- GIS PROPERTY LINE
- PUBLIC ROADWAY
- EXISTING RIGHT-OF-WAY LINE
- EXISTING OVERHEAD UTILITIES & POLE
- EXISTING OVERHEAD TRANSMISSION LINE
- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING DATA/COMMUNICATION LINE
- FLOODWAY
- 50' TOWNSHIP RIPARIAN BUFFER
- 100 YEAR FEMA FLOODPLAIN
- 500 YEAR FEMA FLOODPLAIN
- CONODOGUINET CREEK (GIS)
- STREAMS
- PROPOSED WETLANDS
- ACOE JURISDICTIONAL WETLANDS
- LIMIT OF DISTURBANCE
- COMPOST FILTER SOCK
- EROSION CONTROL MATTING
- EP ANALYSIS FLOWPATH
- PLYWOOD BAFFLES
- SOIL LINE

SYMBOLS

- SOIL LABEL
- COMPOST SOCK CONCRETE WASHOUT
- ROCK CONSTRUCTION ENTRANCE
- INLET PROTECTION
- POINT OF ANALYSIS

50 0 50 100 FT

HORIZONTAL SCALE: 1 INCH = 50 FEET

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2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/6/2026	RJT	JHR
1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
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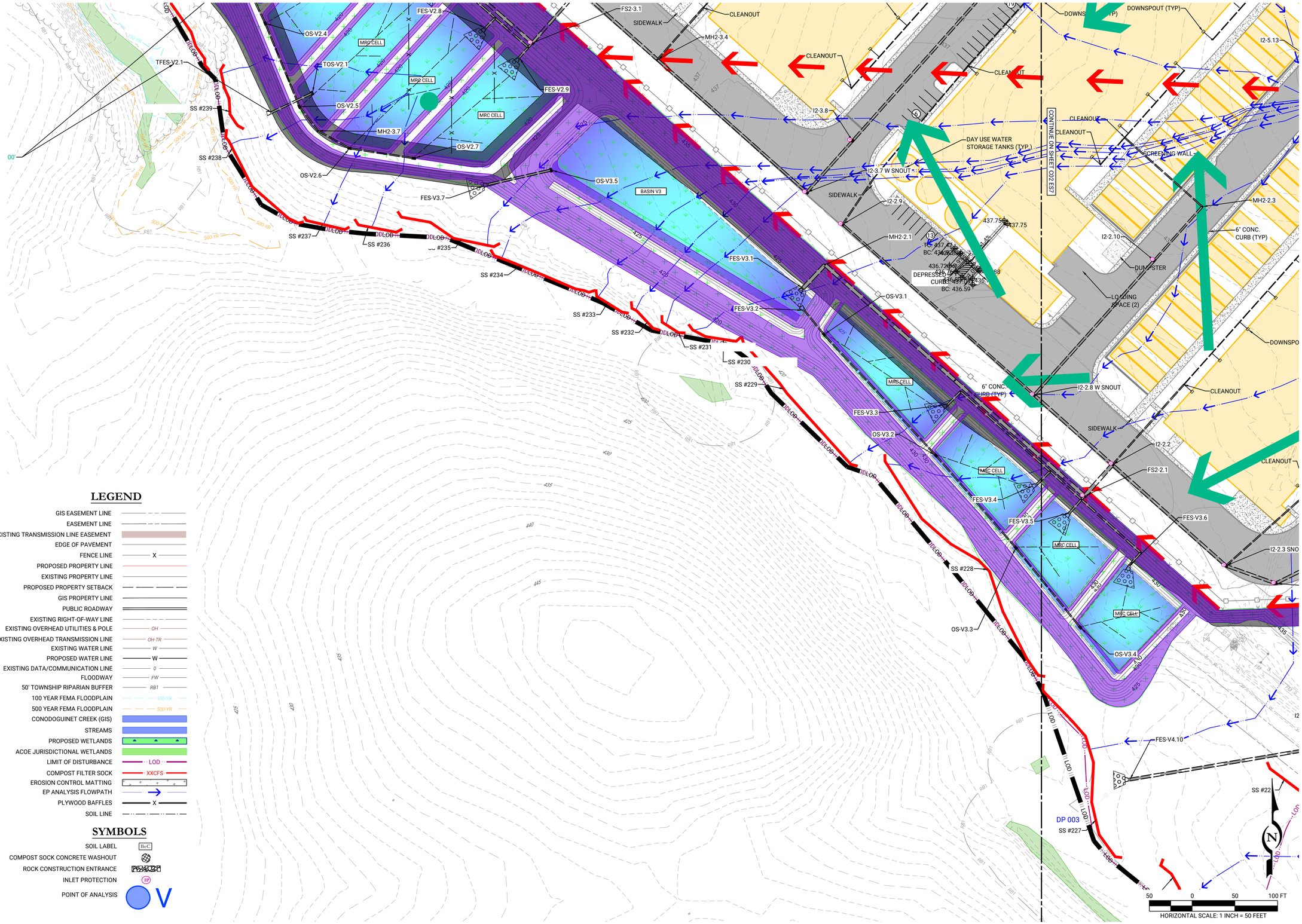
PHONE: (703) 234-3056

SHEET TITLE

EROSION & SEDIMENT CONTROL PLAN

SHEET NO.

C02 ES5



LEGEND

- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- FENCE LINE — X
- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY SETBACK
- GIS PROPERTY LINE
- PUBLIC ROADWAY
- EXISTING RIGHT-OF-WAY LINE
- EXISTING OVERHEAD UTILITIES & POLE — OH
- EXISTING OVERHEAD TRANSMISSION LINE — OH-TR
- EXISTING WATER LINE — W
- PROPOSED WATER LINE — W
- EXISTING DATA/COMMUNICATION LINE — 0
- FLOODWAY — FW
- 50' TOWNSHIP RIPARIAN BUFFER — RB1
- 100 YEAR FEMA FLOODPLAIN — 100-YR
- 500 YEAR FEMA FLOODPLAIN — 500-YR
- CONODOGUINET CREEK (GIS)
- STREAMS
- PROPOSED WETLANDS
- ACOE JURISDICTIONAL WETLANDS
- LIMIT OF DISTURBANCE — LOD
- COMPOST FILTER SOCK — XXCFS
- EROSION CONTROL MATTING
- EP ANALYSIS FLOWPATH
- PLYWOOD BAFFLES — X
- SOIL LINE

SYMBOLS

- SOIL LABEL — BeC
- COMPOST SOCK CONCRETE WASHOUT
- ROCK CONSTRUCTION ENTRANCE
- INLET PROTECTION — IP
- POINT OF ANALYSIS — V

REV	DATE	COMMENTS	BY
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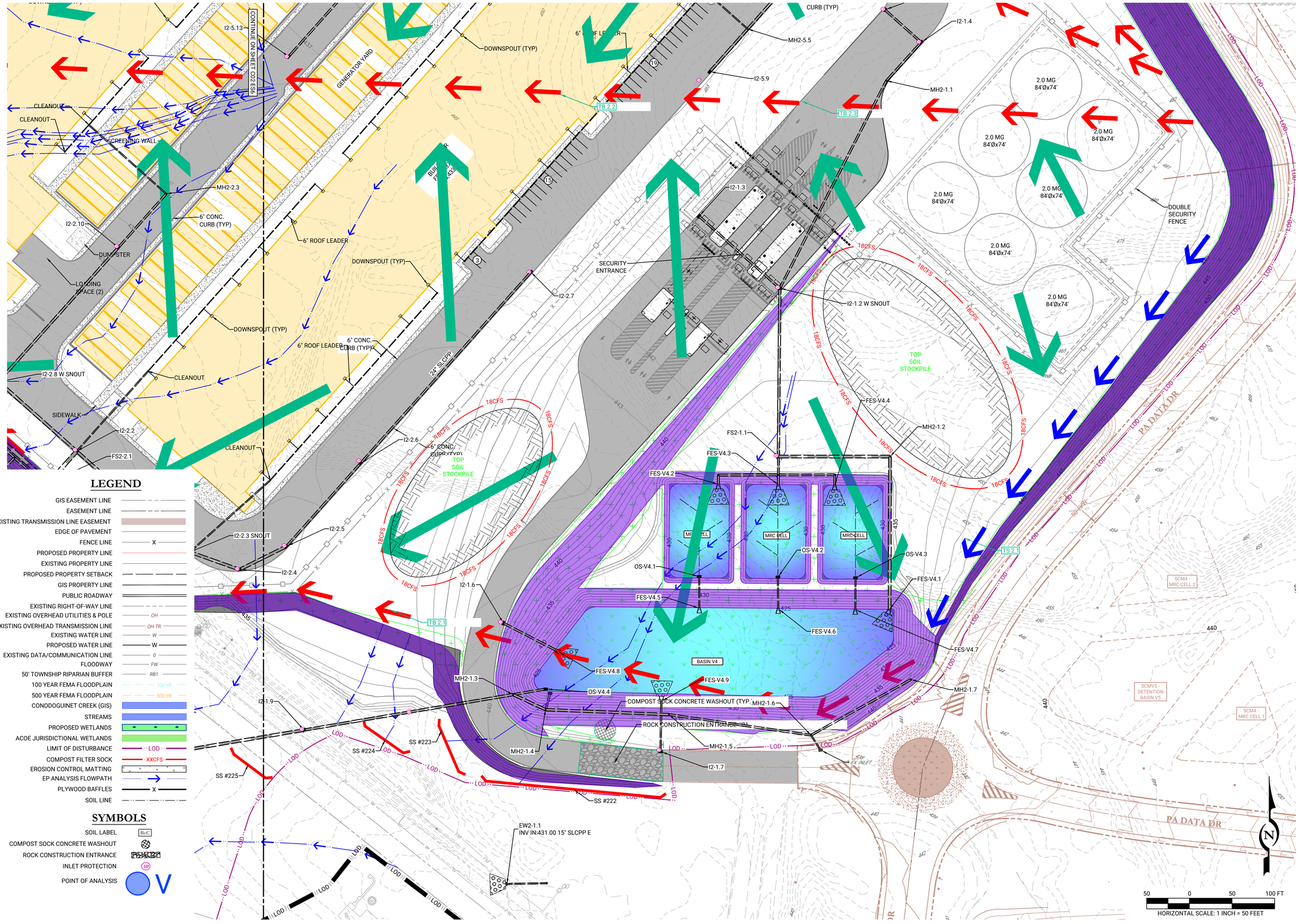
SHEET TITLE

EROSION & SEDIMENT CONTROL PLAN

SHEET NO.

C02 ES6



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SHEET TITLE

EROSION & SEDIMENT CONTROL PLAN

SHEET NO.

C02 ES7

UTILITY LINE TRENCH EXCAVATION

THE MOST IMPORTANT EROSION AND SEDIMENTATION CONTROL CONSIDERATION FOR TRENCH CONSTRUCTION IS THE LIMITING AND SCHEDULING OF WORK ACTIVITIES, AS FOLLOWS:

1. MINIMIZE AREA OF EXPOSURE. DISTURB ONLY THE AREA REQUIRED FOR CONSTRUCTION. AT THE PRESENT NATURAL VEGETATION COVERS THE AREA AND THERE IS LITTLE EROSION. DO NOT DISTURB ANY EXISTING VEGETATION BELOW THE CONSTRUCTION AREA. THIS AREA WILL ACT AS A NATURAL FILTER.
2. MINIMIZE THE TIME OF EXPOSURE. ALL DISTURBED AREAS WILL BE RE-SEEDED AND MULCHED WITHIN FOUR (4) DAYS, OR SOONER IF WORK IS COMPLETED.
3. FOR INSTALLATION IN LAWN AREAS, TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE DISTURBED AND STOCKPILED ADJACENT TO TRENCH FOR REDISTRIBUTION AT FINAL GRADING. EXCAVATED MATERIAL SUITABLE FOR BACKFILLING TRENCH SHALL LIKEWISE BE STOCKPILED ADJACENT TO TRENCH, PREFERABLY UPGRADE OF TRENCH. IF RAIN IS FORECAST PRIOR TO BACKFILLING TRENCH, INSTALL SILT BARRIER FENCE BELOW STOCKPILED MATERIAL AND PROTECT TRENCH FROM ENTRY OF SURFACE WATER.
4. FOR INSTALLATION IN PAVEMENT AND SHOULDER AREAS, EXCAVATED MATERIAL SHALL BE LOADED INTO TRUCKS, HAULED OFF SITE AND PROPERLY DISPOSED OF. BACKFILL WITH SELECT MATERIAL. WHERE EXCAVATED MATERIAL IS PERMITTED AS BACKFILL, DO NOT PLACE EXCAVATED MATERIAL IN OR ADJACENT TO CURBS, GUTTERS, OR DITCHES WHERE IT MAY COME IN CONTACT WITH STORM WATER. WHERE EXCAVATED MATERIAL MUST BE SO PLACED, PROTECT MATERIAL BY SECURELY ANCHORED SHEETING, PLASTIC, ETC.
5. INSTALL CONTROL MEASURES BEFORE DISTURBING THE LAND THAT DRAINS INTO THEM. ALL CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION UNTIL ALL DISTURBED AREAS ARE STABILIZED. CLEAN OR CHANGE AS NEEDED.
6. INSTALL SILT BARRIER FENCE AS SHOWN AND AS REQUIRED IN ACCORDANCE WITH THE DETAIL.
7. WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE REMOVED BY PUMPING. NO DISCHARGE OF SILT, MUD OR OTHER POLLUTANTS DIRECTLY INTO ANY WATERCOURSE WHEN USING PUMPS DURING CONSTRUCTION WILL BE PERMITTED. CONSTRUCT SEDIMENTATION BASINS IF NECESSARY. TRENCH DE-WATERING DISCHARGES MAY BE DIRECTED THROUGH A PUMPED WATER FILTER BAG AND ONTO EXISTING VEGETATION IF ACCEPTABLE.
8. THESE MEASURES REPRESENT THE MINIMUM PRECAUTIONS REQUIRED. CONTRACTOR SHALL EVALUATE THE EFFECTIVENESS OF THE MEASURES CITED AND IMPLEMENT THEM ALONG WITH ADDITIONAL MEASURES AS NEEDED.
9. SCHEDULE OF ACTIVITIES:
   A. INSTALL SILT BARRIER FENCE, AT LIMIT OF GRADING LINE, AND ELSEWHERE AS NEEDED.
   B. CLEAR AND GRUB AREA OF CONSTRUCTION. TREES AND OTHER NATURAL VEGETATION ARE NOT TO BE DISTURBED OUTSIDE THE CONSTRUCTION AREA. LIMIT CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO (2) TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY.
   C. EXCAVATE. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT AND BACKFILLING THAT CAN BE COMPLETED AND TESTED THE SAME DAY.
   D. INSTALL PIPE IN ACCORDANCE WITH RESTORATION DETAILS.
   E. BACKFILL IN ACCORDANCE WITH RESTORATION DETAILS.
   F. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND APPROPRIATE TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL MEASURES/FACILITIES WILL BE INSTALLED. SEEDING AND MULCHING OF ALL DISTURBED AREAS WILL BE DONE AT THE END OF EACH WEEK.
   G. CONTRACTOR SHALL MAINTAIN ALL CONTROL MEASURES UNTIL PERMANENT STABILIZATION HAS OCCURRED. CHECK CONTROL MEASURES WEEKLY OR AFTER EVERY RAINFALL EVENT. CLEAN OR REPLACE AS NEEDED.
10. EXCEPTIONS: IN CERTAIN CASES TRENCHES CANNOT BE BACKFILLED UNTIL THE PIPE IS HYDROSTATICALLY TESTED, OR ANCHORS AND OTHER PERMANENT FEATURES ARE INSTALLED. IN THESE CASES, THE FOLLOWING EXCEPTIONS APPLY:
    A. DAILY BACKFILLING OF THE TRENCH MAY BE DELAYED FOR SIX (6) DAYS. ALL PRESSURE TESTING AND THE COMPLETE BACKFILLING OF THE OPEN TRENCH MUST BE COMPLETED BY THE SEVENTH WORKING DAY.
    B. IF DAILY BACKFILLING IS DELAYED, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS, APPROPRIATE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES/FACILITIES WILL BE INSTALLED, AND THE AREAS SEEDED AND MULCHED WITHIN THE NEXT TWO (2) CALENDAR DAYS.

SEEDING

TEMPORARY SEEDING:

1. IF PERMANENT VEGETATION IS NOT PLACED ON DISTURBED AREA FOR FOUR (4) OR MORE DAYS, THE DISTURBED AREA SHALL BE SEEDED AS FOLLOWS:
   A. IF SOIL TEST RESULTS ARE NOT AVAILABLE, APPLY AGRICULTURAL GRADE LIME AT A RATE OF 1 TONS/ACRE, OR 40 LBS/1,000 SF AND FERTILIZER 10-10-10 AT A RATE OF 500 LBS/ACRE OR 12.5 LB/1,000 SF;
   B. BROADCAST TEMPORARY SEED MIXTURE OF ANNUAL RYEGRASS AT A RATE OF 10 LBS/ACRE; AND
   C. SPREAD MULCH (STRAW OR HAY) AT A RATE OF 3 TONS/ACRE, OR 140 LBS/1,000 SF.

PERMANENT SEEDING:

1. PLACE TOPSOIL TO A MINIMUM DEPTH OF 6 INCHES WHERE THE TEXTURE OF THE EXPOSED SOIL IS NOT SUITABLE FOR VEGETATIVE GROWTH, OR WHERE THE TOPSOIL DEPTH IS INSUFFICIENT FOR THE SUPPORTING ROOT ZONE.
2. LIME AND FERTILIZE ACCORDING TO SOIL TESTS OR AT THE RATES INDICATED BELOW.
3. LOOSEN SURFACE SOIL TO A DEPTH OF 4 TO 6 INCHES WITH SUITABLE EQUIPMENT. APPLY SEEDS UNIFORMLY BY BROADCASTING OR HYDROSEEDING.
4. MULCH ALL AREAS, IF NECESSARY, MULCH SHALL BE ANCHORED WITH WOOD CELLULOSE FIBER (APPLIED AT A RATE OF 750 LBS/ACRES) OR OTHER SUITABLE MULCH ANCHORING MATERIAL.
5. SEED AND SOIL AMENDMENT APPLICATION RATES - SLOPES < 3:1:
   A. APPLY AGRICULTURAL GRADE LIME AT A RATE OF 6 TONS/ACRE, OR 240 LBS/1,000 SF;
   B. APPLY FERTILIZER 10-10-20 AT A RATE OF 1,000 LBS/ACRE OR 25 LB/1,000 SF;
   C. BROADCAST A PERMANENT SEED MIXTURE OF 50% TALL FESCUE (2 VARIETIES), 40% PERENNIAL RYEGRASS (2 VARIETIES), AND 10% BLUEGRASS (2 VARIETIES) AT A RATE OF 100 LBS/ACRE, OR 2.3 LB/1,000 SF (SEE SPECIFICATIONS FOR FURTHER DETAIL); AND
   D. SPREAD MULCH (STRAW) AT A RATE OF 3 TONS/ACRE, OR 140 LBS/1,000 SF.
6. SEED AND TOPSOIL AMENDMENT APPLICATION RATES - SLOPE > 3:1:
   A. APPLY AGRICULTURAL GRADE LIME AT A RATE OF 2 TONS/ACRE, OR 90 LBS/1,000 SF;
   B. APPLY FERTILIZER 10-10-20 AT A RATE OF 1,000 LBS/ACRE OR 25 LB/1,000 SF;
   C. BROADCAST A PERMANENT SEED MIXTURE OF 100% TALL FESCUE 31 AT A RATE OF 100 LBS/ACRE, OR 2.3 LBS/1,000 SF; AND
   D. SPREAD MULCH (STRAW) AT A RATE OF 3 TONS/ACRE, OR 140 LBS/1,000 SF.
7. IF A UNIFORM 70% COVER IS NOT ESTABLISHED ON ALL LAWN AREAS BY OCTOBER 15, THE CONTRACTOR SHALL LOOSEN THE SOIL SURFACE AND APPLY ADDITIONAL TOPSOIL, AND APPLY SOIL AMENDMENTS, SEED, AND MULCH TO THE EXTENT REQUIRED TO ESTABLISH ADEQUATE COVER.
8. IF A UNIFORM 90% COVER IS NOT ESTABLISHED ON ALL SLOPES BY OCTOBER 15, ALL BARREN AREAS SHALL BE REPLANTED IN ACCORDANCE WITH THE DIRECTIONS IN ITEMS 5 AND 6.
9. ALL VEGETATION SHALL BE GUARANTEED TO ACHIEVE 100% COVERAGE WITHIN ONE YEAR, OR PLANTING SHALL CONTINUE UNTIL 100% COVERAGE IS ACHIEVED.

MAINTENANCE PROGRAM

A MAINTENANCE PROGRAM THAT PROVIDES FOR THE OPERATION AND MAINTENANCE OF BMPs AND THE INSPECTION OF BMPs ON A WEEKLY BASIS AND AFTER EACH STORMWATER EVENT, INCLUDING THE REPAIR OR REPLACEMENT OF BMPs TO ENSURE EFFECTIVE AND EFFICIENT OPERATION. THE PROGRAM MUST PROVIDE THE COMPLETION OF A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ALL BMP REPAIR OR REPLACEMENT AND MAINTENANCE ACTIVITIES.

A MAINTENANCE PROGRAM FOR BOTH THE TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPs, INCLUDING DISPOSAL OF MATERIALS REMOVED FROM THE BMPs ON PROJECT AREA, SHOULD BE INCLUDED.

THE FOLLOWING BMPs ARE USED ON THE PROJECT SITE:

- EROSION CONTROL BLANKET
- RIP-RAP APRON
- SEDIMENT BASIN
- COMPOST FILTER SOCK
- FILTER BAG INLET PROTECTION
- COMPOST SOCK CONCRETE WASHOUT
- PUMPED WATER FILTER BAG
- ROCK FILTER
- VEGETATED CHANNEL

GENERAL MAINTENANCE:

- E&S BMPs SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED BMPs SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION. SEE INDIVIDUAL E&S BMP DETAILS FOR ADDITIONAL INFORMATION.
- REPAIR, RESEED AND RE-MULCH ANY AREAS THAT ERODE PRIOR TO FINAL STABILIZATION. FINAL STABILIZATION WILL BE ACHIEVED WHEN THERE IS A UNIFORM VEGETATIVE COVER OR DENSITY OF 70% ACROSS THE DISTURBED AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE MEASURES TO ENSURE THE SEDIMENT IS NOT DEPOSITED ON PUBLIC WALKS OR ROADWAYS. IF ANY SEDIMENT IS DEPOSITED ON THESE AREAS, IT SHALL BE REMOVED AND RETURNED TO THE SITE DAILY. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER OR SURFACE WATER.

RECYCLING OR DISPOSAL OF MATERIALS

PROCEDURES WHICH ENSURE THAT THE PROPER MEASURES FOR THE RECYCLING OR DISPOSAL OF MATERIALS ASSOCIATED WITH OR FROM THE PROJECT SITE WILL BE UNDERTAKEN IN ACCORDANCE WITH DEPARTMENT REGULATIONS.

INDIVIDUALS RESPONSIBLE FOR EARTH DISTURBANCE ACTIVITIES MUST ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY. MEASURES SHOULD BE PLANNED AND IMPLEMENTED FOR HOUSEKEEPING, MATERIALS MANAGEMENT AND LITTER CONTROL. WHENEVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED, RATHER THAN DISPOSAL.

CLEAN FILL

CLEAN FILL IS DESCRIBED AS UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT SOLID MATERIAL. THIS INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT AND BRICK, BLOCK OR CONCENTRATE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. IT DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE SURFACE WATERS UNLESS OTHERWISE AUTHORIZED, MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.

TO DETERMINE WHETHER A FILL IS CLEAN OR REGULATED, A PERSON MUST PERFORM ENVIRONMENTAL DUE DILIGENCE. ANALYTICAL ASSESSMENT, TESTING OR SAMPLING IS ONLY REQUIRED IF VISUAL INSPECTION OR REVIEWS OF HISTORIC PROPERTY USE INDICATES EVIDENCE OF THE RELEASE OF A REGULATED SUBSTANCE.

THE USE OF CLEAN FILL IS REGULATED UNDER ENVIRONMENTAL LAWS AND REGULATIONS. THE USE OF MATERIALS AS CLEAN FILL UNDER DEP'S CLEAN FILL POLICY, MUST COMPLY WITH ALL APPLICABLE REQUIREMENTS GOVERNING PLACEMENT, SUCH AS CHAPTER 102 (EROSION AND SEDIMENT CONTROL) AND CHAPTER 105 (DAM SAFETY AND WATERWAY MANAGEMENT).

ANY PERSON PLACING CLEAN FILL WHICH HAS BEEN AFFECTED BY A RELEASE OF A REGULATED SUBSTANCE ON A PROPERTY MUST CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL ON FORM FP-001. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL.

BEST MANAGEMENT PRACTICES (BMP) MUST BE FOLLOWED PRIOR TO DEMOLITION ACTIVITIES TO REMOVE MATERIALS LIKE LEAD BASED PAINT SURFACE, FRIABLE ASBESTOS AND HAZARDOUS MATERIALS SUCH AS MERCURY SWITCHES, PCB BALLASTS AND FLORESCENT LIGHT BULBS FROM A BUILDING IF THE BRICK, BLOCK OR CONCRETE IS USED AS CLEAN FILL.

CLEAN FILL MAY NOT CONTAIN ANY FREE LIQUIDS BASED ON VISUAL INSPECTION, AND SHALL NOT CREATE NUISANCES (FOR EXAMPLE OBJECTIONABLE ODORS) TO USERS OF RECEIVING PROPERTY OR ADJACENT PROPERTY OWNERS.

GEOLOGICAL FORMATIONS OR SOIL CONDITIONS

SINCE THE SOILS ONSITE ARE EASILY ERODED, MINIMIZE EXPOSURE OF THE SUBGRADE WHEN PERFORMING EARTHWORK OPERATIONS. DUE TO POTENTIAL SINHOLES ON SITE, SINKHOLE REMEDIATION DETAILS HAVE BEEN ADDED TO THE PLAN.

POTENTIAL THERMAL IMPACTS

DURING THE CONSTRUCTION STAGES OF PHASES 1A AND 1B, THERMAL IMPACTSHAVE BEEN REDUCED BY DIRECTING ALL EARTH DISTURBANCE RUNOFF TO THE PROPOSED COMPOST FILTER SOCK, SEDIMENT BASINS, AND COMPOST SOCK SEDIMENT TRAPS. THE SEDIMENT BASINS WILL ALLOW THE RUNOFF TO COOL DUE TO BEING DETAINED WITHIN THE SEDIMENT BASINS BEFORE BEING DISCHARGED OFFSITE. THE COMPOST SOCK SEDIMENT TRAPS & COMPOST FILTER SOCKS WILL SLOW THE WATER AS IT REACHES THE TRAP AND SOCK TO GIVE IT A CHANCE TO COOL AS IT PONDS BEHIND THE TRAP AND IN THESE VEGETATED AREAS.

RIPARIAN FOREST BUFFERS

NO PADEP RIPARIAN BUFFERS ARE LOCATED WITHIN THE PROJECT LOCATION.

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT	JHR
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT	JHR
1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

ISSUE / REVISIONS

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

E&S NOTES

SHEET NO.

C02 ES8

STORMWATER BMP OPERATION AND MAINTENANCE SCHEDULE

OUTLET STRUCTURE, CULVERT AND OUTFALL APRON

- ALL STRUCTURES, CULVERTS AND OUTFALL APRONS SHOULD BE INSPECTED AND CLEANED ANNUALLY OR AFTER EVERY MAJOR STORM EVENT (GREATER THAN 1" OF RAINFALL).

INFILTRATION BASIN

- SHALL BE INSPECTED AT LEAST TWICE YEARLY AND AFTER EVERY MAJOR STORM EVENT (GREATER THAN 1" OF RAINFALL) FOR ACCUMULATION OF SEDIMENT, EROSION, VEGETATION CONDITIONS, DAMAGE TO OUTLET CONTROL STRUCTURES, EROSION CONTROL MEASURES, SIGNS OF WATER CONTAMINATION/SPILLS AND SLOPE STABILITY OF THE BERMS.
- PROTECT WATER QUALITY BASIN AREA FROM COMPACTION PRIOR TO INSTALLATION
- CATCH BASINS AND INLETS (UP-GRADIENT OF INFILTRATION BASIN) SHOULD BE INSPECTED AND CLEANED AT LEAST 2 TIMES PER YEAR AND AFTER RUNOFF EVENTS.
- THE VEGETATION ALONG THE SURFACE SHOULD BE MAINTAINED IN GOOD CONDITION AND ANY BARE SPOTS RE-VEGETATED.
- VEHICLES SHOULD NOT BE PARKED OR DRIVEN ON WATER QUALITY AREAS AND CARE SHOULD BE TAKEN TO AVOID EXCESSIVE COMPACTION.
- MOW ONLY AS APPROPRIATE FOR VEGETATIVE COVER SPECIES.
- BASIN SHALL BE INSPECTED AFTER EVERY MAJOR STORM EVENT TO ASSURE DE-WATERING WITHIN 72 HOURS. THE EMERGENCY DE-WATERING PIPE SHALL ONLY BE UTILIZED FOR MAINTENANCE ACTIVITY PURPOSES OR IN AN EMERGENCY SITUATION, WHICH HAS BEEN APPROVED BY THE PROJECT ENGINEER AND LOCAL CONSERVATION DISTRICT REPRESENTATIVE. AFTER THE BASIN HAS BEEN DRAINED, THE END CAP MUST BE IMMEDIATELY RE-INSTALLED ON THE DE-WATERING PIPE.
- AFTER EACH INSPECTION, A WRITTEN REPORT DOCUMENTING ANY AND ALL SCM REPAIR AND MAINTENANCE ACTIVITIES SHALL BE REQUIRED.

MANAGED RELEASE CONCEPT (MRC) BASIN

A LICENSED PROFESSIONAL ENGINEER SHOULD PROVIDE AN APPROPRIATE LONG-TERM OPERATION AND MAINTENANCE (O&M) SCHEDULE FOR THE MRC SCM. THE LONG-TERM OPERATION AND MAINTENANCE SCHEDULE SHOULD BE PROJECT SPECIFIC. AT A MINIMUM, THE LONG-TERM O&M SCHEDULE MUST MEET 25 PA. CODE § 102.8(F)(10) AND INCLUDE THE FOLLOWING:

1. UPGRADIENT CATCH BASINS AND INLETS SHOULD BE INSPECTED AND CLEANED ANNUALLY, OR MORE OFTEN IF HISTORICAL MAINTENANCE RECORDS SUGGEST A MORE FREQUENT CLEANING.
2. INSPECT AND CLEAN, AS NECESSARY, MANAGED RELEASE ORIFICES TO PREVENT BLOCKAGES, ON A ROUTINE BASIS (MONTHLY OR QUARTERLY BASED ON OPERATING EXPERIENCE).
3. THE VEGETATION (FOR THE MRC SCM AND CONTRIBUTING DRAINAGE AREA) SHOULD BE MAINTAINED IN GOOD CONDITION, AND ANY BARE SPOTS REVEGETATED.
4. CARE SHOULD BE TAKEN TO AVOID EXCESSIVE COMPACTION BY MOWERS. MOW ONLY AS APPROPRIATE FOR VEGETATIVE SPECIES.
5. INSPECT AT LEAST TWO TIMES PER YEAR AFTER RUNOFF EVENTS GREATER THAN 1 INCH AND MAKE SURE THAT RUNOFF DRAINS DOWN WITHIN THE DESIGN PARAMETERS (A LICENSED PROFESSIONAL ENGINEER SHOULD CLEARLY IDENTIFY WHAT THESE PARAMETERS ARE).
6. AT LEAST TWO TIMES PER YEAR, OR MORE IF HISTORICAL MAINTENANCE INDICATE IT IS NECESSARY, INSPECT FOR ACCUMULATION OF SEDIMENT, DAMAGE TO OUTLET CONTROL STRUCTURES, EROSION, SIGNS OF WATER CONTAMINATION/SPILLS, AND INSTABILITY. LEAF LITTER NEEDS TO BE REMOVED ANNUALLY.
7. AS NEEDED, REMOVE ACCUMULATED SEDIMENT AS REQUIRED TO MAINTAIN INFILTRATION THROUGH THE MRC SOIL MEDIA AND TO MAINTAIN WATER QUALITY FUNCTIONALITY. RESTORE ORIGINAL CROSS SECTION. PROPERLY DISPOSE OF SEDIMENT.
8. ALL MRC SCM COMPONENTS SHOULD BE MAINTAINED AS INDICATED IN THE STORMWATER BMP MANUAL.
9. AS NOTED ABOVE, IF THE MRC SCM WILL MANAGE PEAK FLOWS IN EXCESS OF THE 2-YEAR/24-HOUR STORM EVENT, AN INCREASED INSPECTION AND MAINTENANCE FREQUENCY WILL BE NECESSARY.

VEGETATED AND LANDSCAPE AREAS

- INSPECT AREAS ON A QUARTERLY BASIS FOR THE FIRST 2 YEARS FOLLOWING INSTALLATION, THEN ON A BIANNUAL BASIS. INSPECT AFTER EVERY STORM EVENT GREATER THAN 1in. DURING THE ESTABLISHMENT PERIOD
- VEGETATED AREAS THAT RECEIVE OR TRAP SEDIMENT AND DEBRIS SHOULD BE INSPECTED FOR CLOGGING, DENSITY OF VEGETATION, DAMAGE BY FOOT OR VEHICULAR TRAFFIC, EXCESSIVE ACCUMULATIONS AND CHANNELIZATION.
- IF VEGETATED COVER IS NOT FULLY ESTABLISHED WITHIN THE DESIGNATED TIME, IT SHOULD BE REPLACED WITH AN ALTERNATIVE SPECIES.
- UNWANTED OR INVASIVE GROWTH SHOULD BE REMOVED ON AN ANNUAL BASIS. INSPECT BIWEEKLY FOR THE FIRST GROWING SEASON OR UNTIL VEGETATION IS PERMANENTLY ESTABLISHED.
- VEGETATION COVER SHOULD BE SUSTAINED AT 85% AND REESTABLISHED IF DAMAGE GREATER THAN 50% IS OBSERVED.

VEGETATED SWALE

- MAINTENANCE ACTIVITIES TO BE DONE ANNUALLY AND WITHIN 48 HOURS AFTER EVERY MAJOR STORM EVENT MEASURING MORE THAN 1 INCH OF RAINFALL:
  - A. INSPECT THE FOLLOWING:
    1. EROSION PROBLEMS, DAMAGE TO VEGETATION AND SEDIMENT AND DEBRIS ACCUMULATION
    2. VEGETATION ON SIDE SLOPES FOR EROSION AND FORMATION OF RILLS OR GULLIES
    3. POOLS OF STANDING WATER; DE-WATER AND DISCHARGE TO AN APPROVED LOCATION AND RESTORE TO DESIGN GRADE
    4. UNIFORMITY IN CROSS SECTION AND LONGITUDINAL SLOPE
    5. INLET AND OUTLET OF SWALE FOR SIGNS OF EROSION OR BLOCKAGE
  - B. MOW AND TRIM VEGETATION TO ENSURE SAFETY, AESTHETICS, PROPER SWALE OPERATION OR TO SUPPRESS WEEDS AND INVASIVE VEGETATION
- MAINTENANCE ACTIVITIES TO BE DONE AS NEEDED:
  - A. PLANT ALTERNATIVE GRASS SPECIES IN THE EVENT OF UNSUCCESSFUL ESTABLISHMENT
  - B. RE-SEED BARE AREAS
  - C. ROTOTILL AND REPLANT SWALE IF DRAW DOWN TIME IS MORE THAN 48 HOURS

INSPECT AND CORRECT CHECK DAMS WHEN SIGNS OF ALTERED WATER FLOW ARE IDENTIFIED

CRITICAL STAGES & NOTIFICATIONS

1. AT LEAST 3 DAYS PRIOR TO PERFORMING THE OUTLINED ITEMS BELOW, THE ENGINEER OR DESIGNATED REPRESENTATIVE SHOULD BE CONTACTED TO BE ON SITE FOR OBSERVATION AND QUALITY ASSURANCE IN ACCORDANCE WITH THE NPDES PERMIT.
2. CRITICAL STAGE ITEMS:
   - REVIEW OF GENERAL GEOMETRY AND LAYOUT OF THE INFILTRATION AND MRC BASINS WHEN EARTHWORK IS COMPLETED.
   - REVIEW OF SEDIMENT BASIN CONVERSION TO FINAL PCSM SCM GEOMETRY AND LAYOUT.
   - OVERSIGHT OF AMENDED SOIL MIX TO ENSURE QUALITY OF THE TOPSOIL AND MULCH.

PRE-DEVELOPMENT CONDITIONS

THE TOPOGRAPHIC DATA SHOWN ON THE PLAN DRAWINGS IS FROM A TOPOGRAPHIC SURVEY PERFORMED BY LIVIC CIVIL. THE EXISTING PROJECT SITE IS MEADOW AND AGRICULTURAL FIELDS. THE 693-ACRE SITE, WHICH INCLUDES THE ENTIRETY OF THE PROJECT, SLOPES IN ALL DIRECTIONS BUT THE ~275-ACRE PROJECT AREA FOR PHASE 1A AND 1B GENERALLY SLOPES FROM THE WEST TO THE EAST.

THE EXISTING PROJECT SITE IS BOUNDED TO THE NORTHEAST BY THE CONODOGUINET CREEK, TO THE EAST BY LAND NOW OR FORMERLY OWNED BY KENNETH L. POTTEIGER, TO THE SOUTH BY COUNTRY CLUB ROAD AND TO THE WEST AND NORTH BY LAND NOW OR FORMERLY OWNED BY CARLISLE DEVELOPMENT PARTNERS, LLC. EXISTING CONTOURS AND LAND FEATURES, AS WELL AS THE PROPOSED FEATURES, ARE SHOWN ON THE PLAN DRAWINGS.

GENERAL PCSM PLANNING AND DESIGN

THE POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN HAS BEEN DEVELOPED AND IS INTENDED TO MINIMIZE THE EXTENT OF VEGETATION CLEARING AND GRADING FOR THE PROJECT'S INTENDED OUTCOME.

THE PROPOSED IMPROVEMENTS DISPLAYED ON THE DRAWINGS SHOULD BE FOLLOWED TO ENSURE THE EXISTING DRAINAGE FEATURES AND VEGETATION IS MAINTAINED WHERE INTENDED TO ENSURE PROTECTION OF DOWNSTREAM OFF-SITE WATERWAYS. PROPOSED LAND COVERAGE IS INTENDED TO BE STABILIZED WITH VEGETATION OR IMPERVIOUS FEATURES SUCH AS PAVEMENT OR BUILDING AS SHOWN ON THE DRAWINGS.

THE INCREASE IN IMPERVIOUS COVERAGE ON THE SITE HAS BEEN MANAGED BY PROPOSING THE INSTALLATION OF A WATER QUALITY DETENTION/INFILTRATION BASIN ON THE PROJECT SITE. THE WATER QUALITY BASIN WILL SUPPORT THE REQUIRED RATE CONTROL, KEEPING POST DEVELOPMENT FLOWS LESS THAN OR EQUAL TO PRE-DEVELOPMENT. THE THERMAL IMPACTS OF THE PROPOSED SITE SHOULD NOT ADVERSELY INCREASE FROM THE PRE-CONSTRUCTION CONDITIONS SINCE MOST OF THE SITE IS DIRECTED TO THE WATER QUALITY BASIN.

THE PLAN HAS ALSO BEEN DEVELOPED WITH THE BEST INTENTIONS TO UTILIZE EXISTING FLOW PATHS AND FEATURES. THE EXISTING DOWNSTREAM DRAINAGE PATHWAY IS EXISTING OVERLAND FLOW THAT DISCHARGE TO THE LITTLE TOMHICKEN CREEK (CWF-MF). THE RUNOFF PEAK RATES SHOWN HAVE BEEN REDUCED, BENEFITTING THE DOWNSTREAM AREAS.

THE USE OF HEAVY EQUIPMENT SHOULD BE AVOIDED ON AREAS THAT WILL BE UTILIZED FOR DETENTION AND INFILTRATION. IN ADDITION, EXCESSIVE COMPACTION DURING FINAL GRADING OPERATIONS SHOULD BE MINIMIZED. IN THE AREA OF THE STORMWATER BASIN, OVER EXCAVATE A DEPTH OF TWELVE (12) INCHES FROM EXISTING GRADE. SUBSOIL SHALL BE RIPPED TO A DEPTH NO LESS THAN TWELVE (12) INCHES BEFORE THE PLACEMENT OF AMENDED SOIL MIXTURE, SEEDING AND MULCHING OPERATIONS TO PROMOTE TOP LEVEL INFILTRATION THROUGHOUT THE PROJECT SITE.

ALL THE FEATURES LISTED ABOVE CONTRIBUTE TO MAINTAINING AND PROTECTING THE PHYSICAL, BIOLOGICAL AND CHEMICAL PROPERTIES OF THE RECEIVING STREAM.

REV	DATE	COMMENTS	BY	CHKD
1	11/26/2025	INITIAL SUBMISSION	RJT	JHR
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT	JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT	JHR
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

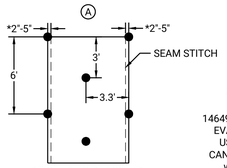
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

E&S NOTES

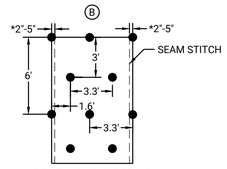
SHEET NO.

C02 ES9

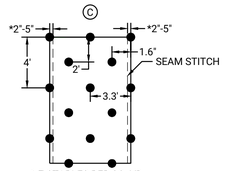


NORTH AMERICAN GREEN
14649 HIGHWAY 41 NORTH
EVANSVILLE, IN 47725
USA 1-800-772-2040
CANADA 1-800-448-2040
www.nagreen.com

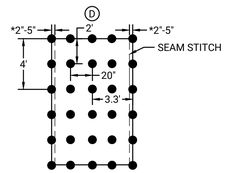
0.7 STAPLES PER SQ. YD.
FOR BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES/STAKES THROUGH EACH OF THE BLUE COLORED DOTS



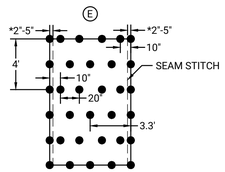
1.15 STAPLES PER SQ. YD.
FOR BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES/STAKES THROUGH EACH OF THE RED COLORED DOTS



1.7 STAPLES PER SQ. YD.
FOR BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES/STAKES THROUGH EACH OF THE GREEN COLORED DOTS

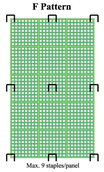


3.4 STAPLES PER SQ. YD.
FOR BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES/STAKES THROUGH EACH OF THE WHITE COLORED DOTS

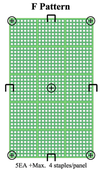


3.75 STAPLES PER SQ. YD.
FOR BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES/STAKES THROUGH EACH OF THE YELLOW COLORED DOTS

*LOCATION OF SEAM STITCH WILL VARY DEPENDING ON NORTH AMERICAN GREEN PRODUCT TYPE:

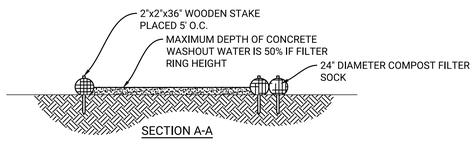


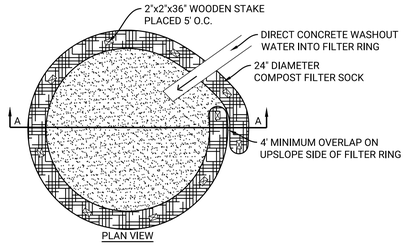
ANCHOR PATTERNS FOR USE WITH WIRE/REBAR STAPLES



ANCHOR PATTERNS FOR USE WITH COMBINATION OF EARTH ANCHORS AND STAPLES

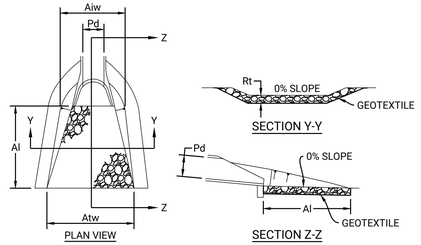
STAPLE PATTERN GUIDE
NOT TO SCALE





NOTES:
1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
3. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS

COMPOST SOCK CONCRETE WASHOUT
NOT TO SCALE

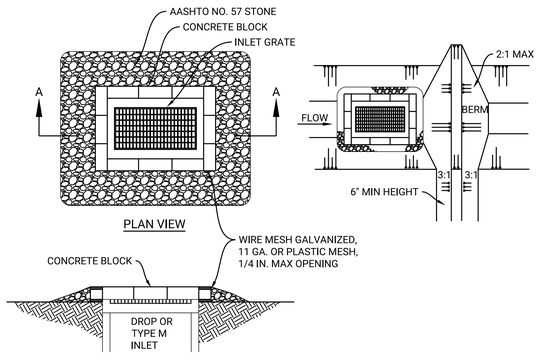


OUTLET No.	PIPE Ø Pd (IN)	RIPRAP		APRON		
		SIZE R-?	THICK Rt (IN)	LENGTH Ai (FT)	INITIAL WIDTH Aiw (FT)	TERMINAL WIDTH Atw (FT)
FES-V1.11	24	R-4	18	14	6	20
FES-V2.10	24	R-4	18	16	6	22
FES-V3.7	18	R-6	36	20	4.5	24.5
FES-V4.10	42	R-5	27	22	10.5	32.5
FES-R3.18	18	R-5	27	16	4.5	20.5
FES-V4.1	36	R-5	27	20	9	29
FES-V3.1	48	R-6	36	28	12	40
FES-V2.1	42	R-5	27	22	10.5	32.5
FES-V1.1	48	R-6	36	28	12	40
FES-R3.1	54	R-6	36	30	13.5	43.5
FES-V4.8	24	R-4	18	12	6	18
FES-V4.9	18	R-4	18	8	4.5	12.5
FES-V4.5-4.7	30	R-5	27	16	7.5	23.5
FES-V3.3-3.6	24	R-4	18	12	6	18
FES-V2.3-2.9	24	R-4	18	12	6	18
FES-V1.5-1.10	24	R-4	18	12	6	18
FES-R3.2-3.9	24	R-4	18	12	6	18

NOTES:
ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.

ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

RIPRAP APRON AT PIPE OUTLET W/FLARED END SECTION STANDARD CONSTRUCTION DETAIL 9-1
NOT TO SCALE



NOTES:
MAXIMUM DRAINAGE AREA =1 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS NOT LOCATED AT A LOW POINT.

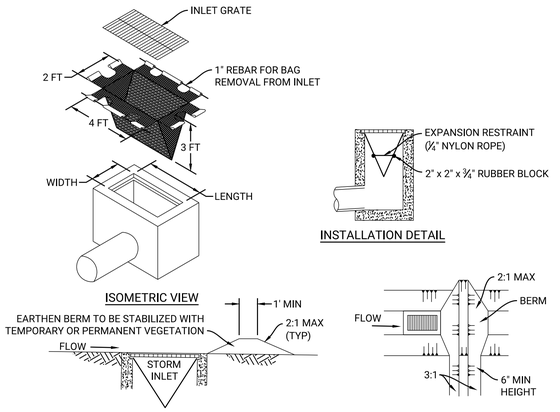
ROLLED EARTHEN BERM IN ROADWAY SHALL BE PROVIDED AND MAINTAINED IMMEDIATELY DOWN GRADIENT OF THE PROTECTED INLET UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR TO REMAIN PERMANENTLY.

TOP OF BLOCK SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.

SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE STONE. DAMAGED OR CLOGGED INSTALLATIONS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

FOR SYSTEMS DISCHARGING TO HQ OR EV SURFACE WATER, A 6 INCH THICK COMPOST LAYER SHALL BE SECURELY ANCHORED ON OUTSIDE AND OVER TOP OF STONE. COMPOST SHALL MEET THE STANDARDS IN TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

STONE & CONCRETE BLOCK INLET PROTECTION-TYPE M INLET STANDARD CONSTRUCTION DETAIL 4-18
NOT TO SCALE



NOTES:
MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

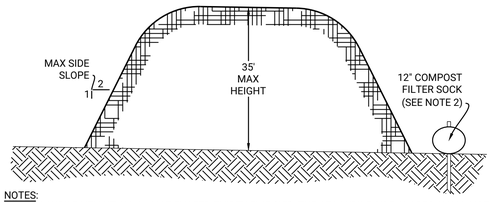
ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.

AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

FILTER BAG INLET PROTECTION-TYPE M INLET STANDARD CONSTRUCTION DETAIL 4-16
NOT TO SCALE



NOTES:
1. STOCKPILE HEIGHT SHALL NOT EXCEED THIRTY FIVE (35'). THE STOCKPILE SIDE SLOPES SHALL NOT EXCEED A TWO (2') FOOT HORIZONTAL TO ONE (1') FOOT VERTICAL SLOPE (2:1).
2. FILTER SOCK SHALL BE INSTALLED DOWN SLOPE OF THE STOCKPILE.
3. THE TOPSOIL STOCKPILE SHALL BE SEEDED AND MULCHED TO BECOME TEMPORARILY STABILIZED.
4. SEE EROSION AND SEDIMENT CONTROL PLAN FOR STOCKPILE LOCATIONS. ALTERNATE LOCATIONS ARE TO BE APPROVED BY OWNER.

TOPSOIL STOCKPILE
NOT TO SCALE

REV	DATE	COMMENTS	BY	CHKD
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT	JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT	JHR
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT	JHR
1	11/26/2025	INITIAL SUBMISSION	RJT	JHR

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT
PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2
MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT
CARLISLE DEVELOPMENT PARTNERS, LLC
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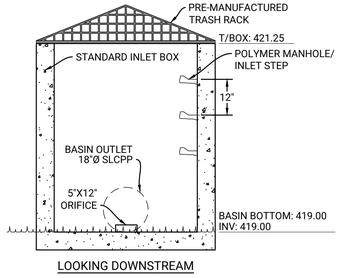
SHEET TITLE
E&S DETAILS

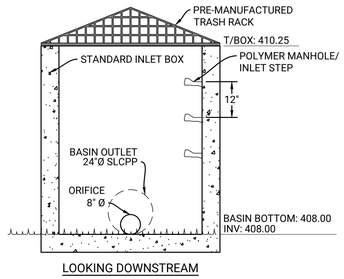
SHEET NO.
C02 ES10



LOOKING DOWNSTREAM

BASIN R3 OUTLET STRUCTURE [OS-R3]

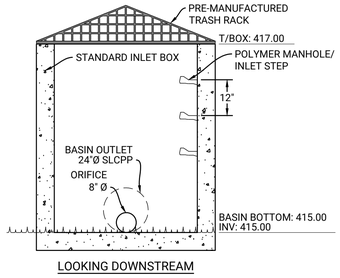
NOT TO SCALE



LOOKING DOWNSTREAM

BASIN V1 OUTLET STRUCTURE [OS-V1]

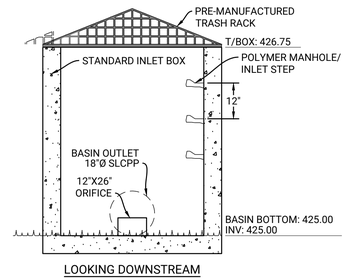
NOT TO SCALE



LOOKING DOWNSTREAM

BASIN V2 OUTLET STRUCTURE [OS-V2]

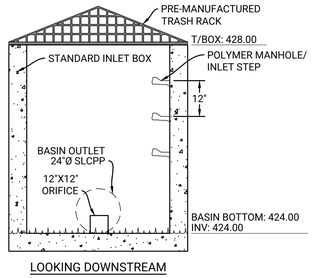
NOT TO SCALE



LOOKING DOWNSTREAM

BASIN V3 OUTLET STRUCTURE [OS-V3]

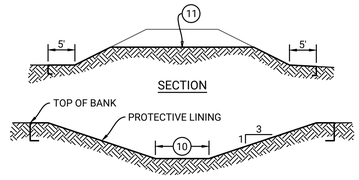
NOT TO SCALE

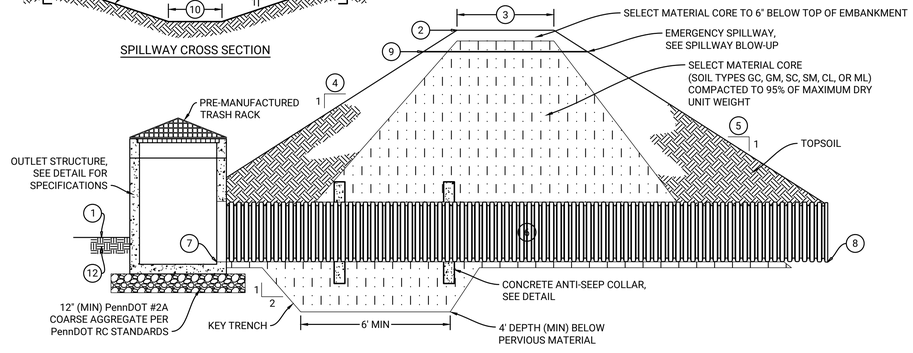


LOOKING DOWNSTREAM

BASIN V4 OUTLET STRUCTURE [OS-V4]

NOT TO SCALE



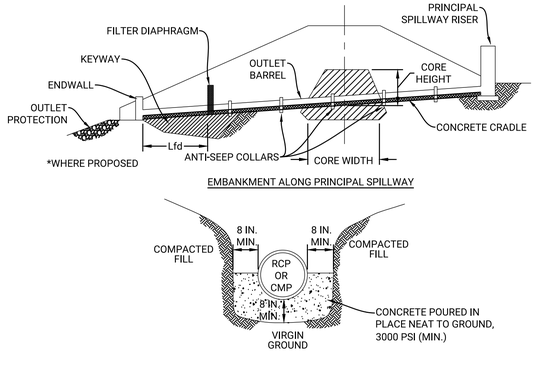


BASIN CROSS SECTION

BASIN KEY	BASIN FEATURE	BASIN R3	BASIN V1	BASIN V2	BASIN V3	BASIN V4
1	BASIN BOTTOM ELEVATION	419.00	408.00	415.00	425.00	424.00
2	BERM ELEVATION	424.00	412.50	420.50	430.50	429.50
3	BERM WIDTH	8'	8'	8'	8'	8'
4	BASIN SIDE SLOPE-INSIDE (Z:1)	3	3	3	3	3
5	BASIN SIDE SLOPE-OUTSIDE (Z:1)	3	3	3	3	3
6	OUTLET PIPE	18"	24"	24"	18"	24"
7	INFLOW INVERT ELEVATION	419.00	408.00	415.00	425.00	424.00
8	OUTFLOW INVERT ELEVATION	416.61	403.78	412.81	417.40	422.85
9	SPILLWAY ELEVATION	422.75	411.00	419.25	429.00	428.00
10	SPILLWAY WIDTH	100'	100'	120'	150'	2'X4' STANDARD INLET BOX
11	SPILLWAY LINING	SHOREMAX W/SC250	SHOREMAX W/SC250	SHOREMAX W/SC250	SHOREMAX W/SC250	N/A
12	AMENDED SOIL DEPTH	42"	42"	42"	42"	42"

MRC BASIN

NOT TO SCALE



EMBANKMENT ALONG PRINCIPAL SPILLWAY

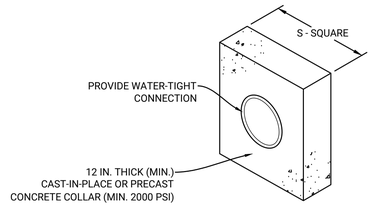
CROSS-SECTION AT OUTLET BARREL

NOTES:

A CONCRETE CRADLE MAY BE USED IN CONJUNCTION WITH ANTI-SEEP COLLARS AND/OR FILTER DIAPHRAGM.
ANTI-SEEP COLLAR NUMBER, SIZE AND SPACING SHALL BE AS SHOWN ELSEWHERE IN PLAN.
FILTER DIAPHRAGM LOCATION (Lfd) SHALL BE AS SHOWN IN FIGURE 7.8 OF THE PA DEP EROSION CONTROL MANUAL.

CONCRETE CRADLE FOR BASIN OR TRAP OUTLET BARREL
STANDARD CONSTRUCTION DETAIL 7-17

NOT TO SCALE

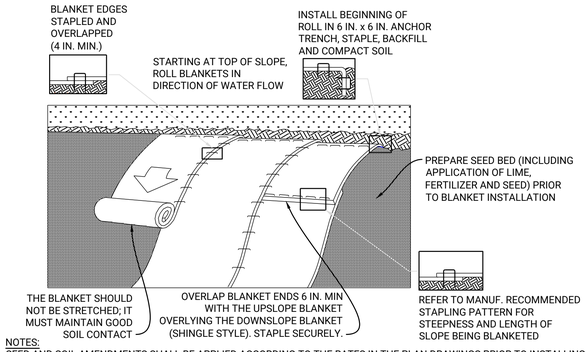


BASIN OR TRAP NO.	PIPE SIZE (IN)	S (IN)	NO. OF COLLARS
R3	18	45	2
V1	24	42	3
V2	24	42	3
V3	18	42	3
V4	24	39	3

NOTES:
1. ALL COLLARS SHALL BE INSTALLED SO AS TO BE WATERTIGHT.
2. COLLAR SIZE SHALL BE AS INDICATED WITHIN TABLE.

CONCRETE ANTI-SEEP COLLAR FOR PERMANENT BASINS OR TRAPS
STANDARD CONSTRUCTION DETAIL 7-16

NOT TO SCALE



NOTES:
SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.

THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

EROSION CONTROL BLANKET INSTALLATION
STANDARD CONSTRUCTION DETAIL 11-1

NOT TO SCALE

REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	RJT
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	RJT
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	RJT
1	11/26/2025	INITIAL SUBMISSION	RJT

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 2

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

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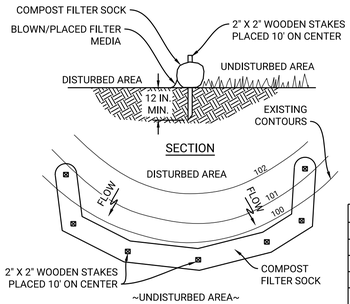
SHEET TITLE

E&S DETAILS

SHEET NO.

C02 ES11



PLAN VIEW

TABLE 4.2 COMPOST STANDARDS	
ORGANIC MATERIAL CONTENT	25%-100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5 - 8.5
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	30% - 50% PASS THROUGH 3/8" SIEVE
SOLUBLE SALT CONCENTRATION	5.0 dS/m (mmhos/cm) MAXIMUM

NOTES:

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

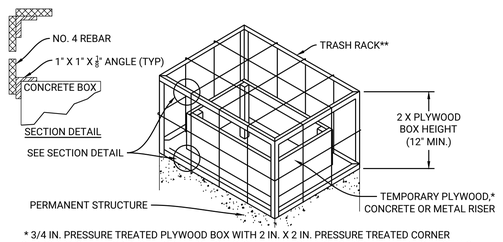
BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

TABLE 4.1 COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS					
MATERIAL TYPE	3 mil HDPE	5 mil HDPE	5 mil HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	BIO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK DIAMETERS	12", 18"	12", 18", 24", 32"	12", 18", 24", 32"	12", 18", 24", 32"	12", 18", 24", 32"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	3/8"
TENSILE STRENGTH		26 psi	26 psi	44 psi	202 psi
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% at 1000 hr.	23% at 1000 hr.		100% at 1000 hr.	100% at 1000 hr.
MINIMUM FUNCTIONAL LONGEVITY	6 months	9 months	6 months	1 year	2 years
TWO-PLY SYSTEMS					
INNER CONTAINMENT NETTING	HDPE BIAXIAL NET				
	CONTINUOUSLY WOUND				
	FUSION-WELDED JUNCTURES				
	3/4" X 3/4" MAX. APERTURE SIZE				
OUTER FILTRATION MESH	COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER AND NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH)				
	3/16" MAX. APERTURE SIZE				
SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS.					

COMPOST FILTER SOCK
STANDARD CONSTRUCTION DETAIL 4-1

NOT TO SCALE



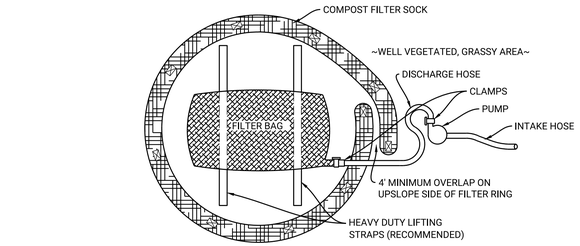
* 3/4 IN. PRESSURE TREATED PLYWOOD BOX WITH 2 IN. X 2 IN. PRESSURE TREATED CORNER SUPPORTS, SET INTO 1-1/2 IN. GRATE OFFSETS, CAULK ALL SEAMS TO FORM WATERTIGHT SEALS.

** TRASH RACK COMPOSED OF 1 IN. X 1 IN. X 1/8 IN. L (TYP.) AND #4 BARS (TYP.) WELDED TO THE ANGLES AND AT EACH INTERSECTION OF THE BARS; #4 BARS SPACED AT HALF THE DIAMETER OF THE BARREL MAX.

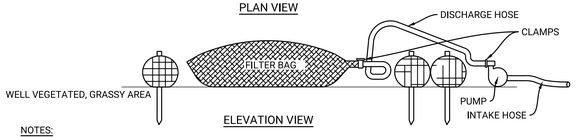
NOTES:
-BOX SHALL BE BOLTED, STRAPPED, OR OTHERWISE SECURED TO THE PERMANENT RISER.
-TOP OF TEMPORARY RISER EXTENSION SHALL BE AT LEAST AS HIGH AS SEDIMENT BASIN TEMPORARY -RISER AND SHALL BE 6 IN. (MINIMUM) BELOW CREST OF EMERGENCY SPILLWAY.
ALL JOINTS SHALL BE WATER TIGHT.
-CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND RISER.

TEMPORARY RISER EXTENSION AND TRASH RACK FOR PERMANENT STRUCTURE FOR SEDIMENT BASIN
STANDARD CONSTRUCTION DETAIL 7-10

NOT TO SCALE



PLAN VIEW



ELEVATION VIEW

NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

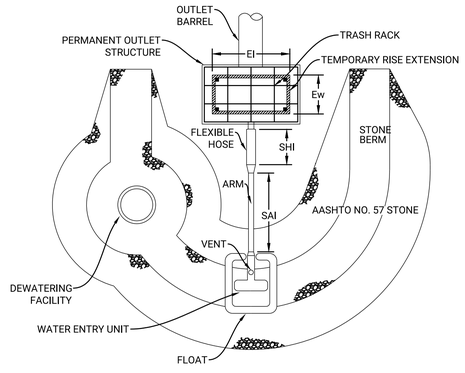
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

PUMPED WATER FILTER BAG (SCD #3-16)

NOT TO SCALE



PLAN VIEW

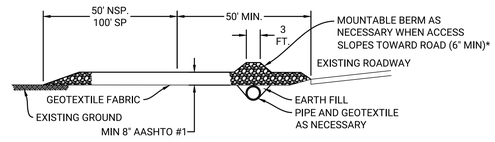
NOTES:

NO GUIDE RAILS SHALL BE REQUIRED FOR THIS INSTALLATION.

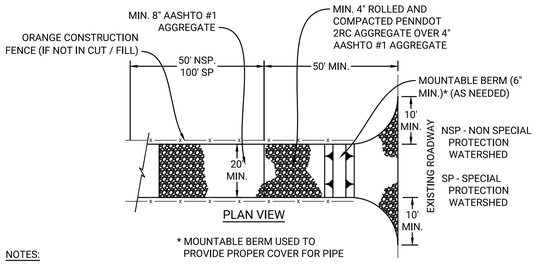
THIS DETAIL SHALL BE USED IN CONJUNCTION WITH STANDARD CONSTRUCTION DETAILS #7-2 AND #7-4.

SKIMMER WITH STONE LANDING BERM
STANDARD CONSTRUCTION DETAIL 7-3

NOT TO SCALE



PROFILE



PLAN VIEW

* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

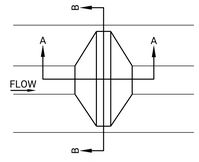
RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

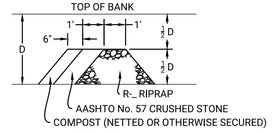
MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STANDARD ROCK CONSTRUCTION ENTRANCE
STANDARD CONSTRUCTION DETAIL 3-1 (ABACT)

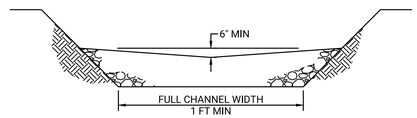
NOT TO SCALE



PLAN



SECTION A-A



SECTION B-B

ROCK FILTER No.	LOCATION	DEPTH D (FT)	RIPRAP GRADATION (R-_)	D ≥ 3 FT = R-4 D ≥ 2 TO D < 3 FT = R-3 NOT APPLICABLE FOR D < 2 FT
RF-1				

NOTES:

SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE HEIGHT OF THE FILTERS. IMMEDIATELY UPON STABILIZATION OF EACH CHANNEL, REMOVE ACCUMULATED SEDIMENT, REMOVE ROCK FILTER, AND STABILIZE DISTURBED AREAS.

ROCK FILTER
STANDARD CONSTRUCTION DETAIL 4-14

NOT TO SCALE

REV	DATE	COMMENTS	BY
4	5/22/2026	REVISIONS PER ENGINEER CMTS DATED 5/8/2026	JHR
3	4/24/2026	REVISIONS PER ENGINEER CMTS DATED 4/13/2026	JHR
2	3/27/2026	REVISIONS PER ENGINEER CMTS DATED 2/4/2026	JHR
1	11/26/2025	INITIAL SUBMISSION	JHR

ISSUE / REVISIONS

LIVIC civil
1015 MUMMA ROAD
2ND FLOOR
WORMLEYSBURG, PA 17043
PHONE: 888.987.1993
www.liviccivil.com

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PROJECT No:	1258-01
DATE:	NOVEMBER 26, 2025
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 2

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

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PHONE: (703) 234-3056

SHEET TITLE

E&S DETAILS

SHEET NO.

C02 ES12