PRELIMINARY LAND DEVELOPMENT PLAN
FOR
PENNSYLVANIA DIGITAL 1 (PAX-1) - PHASE 1C
MIDDLESEX TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

STORMWATER MANAGEMENT ACCESS EASEMENT

THE OWNERS HEREBY GRANT MIDDLESEX TOWNSHIP AN EASEMENT AND RIGHT TO ACCESS TO INSPECT ALL OF THE STORMWATER MANAGEMENT FACILITIES AND CONTROLS AT ANY REASONABLE TIME. THE OWNERS ALSO GRANT MIDDLESEX TOWNSHIP EASEMENTS FOR ALL NATURAL FEATURES AREAS. 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 PLAN APPROVAL CERTIFICATION

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

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

THIS PLAN WAS REVIEWED BY THE CUMBERLAND COUNTY PLANNING DEPARTMENT THIS ____ DAY OF _____, 20_____.

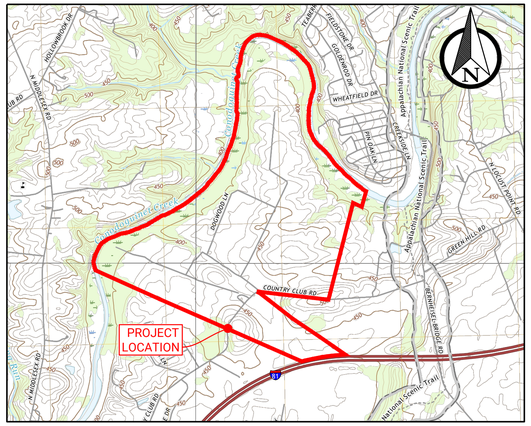
_____
DIRECTOR OF PLANNING

WETLAND CERTIFICATION

I, _____, 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, SHERMAN 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 LA-001068R

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. PE-078393

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

GEOLOGICAL 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 E. LINNELL, P.G. 004514

SEAL

CUMBERLAND COUNTY RECORDER OF DEEDS CERTIFICATE

RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS, IN AND FOR CUMBERLAND COUNTY COUNTY, PENNSYLVANIA, THIS ____ DAY OF _____, 20_____.

INSTRUMENT No. _____

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 TE PLAN AD ALL UTILITY COMPANIES HAVE BEEN CONTACTED.

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

REQUEST OF WAIVER

§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.

§707.A.10 - 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. THIS SECTION OF THE DEVELOPMENT DOES NOT CONTAIN ANY TYPE OF STREET.

§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.

STORMWATER MANAGEMENT ORDINANCE WAIVERS

§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.

PHASE 1C LAND DEVELOPMENT PLAN

SHEET NUMBER	SHEET TITLE	PAGE NUMBER
C1C 001	COVER	1
C1C 002	GENERAL NOTES	2
C1C 003-004	GENERAL INFORMATION	3 - 4
C1C 005	MASTERPLAN KEYMAP	5
C1C 006	PHASE 1C KEYMAP	6
C1C 007	OVERALL EXISTING CONDITIONS & DEMO PLAN	7
C1C 008	OVERALL SITE LAYOUT PLAN	8
C1C 009	OVERALL GRADING & STORMWATER PLAN	9
C1C 010	OVERALL EASEMENT PLAN	10
C1C 011	CLEAR SIGHT PLAN	11
C1C 101	EXISTING CONDITIONS & DEMO PLAN	12
C1C 201-204	SITE LAYOUT PLAN	13 - 16
C1C 301-304	GRADING & STORMWATER PLANS	17 - 20
C1C 501	PROFILE PLAN	21-24
C1C 601-604	LANDSCAPING PLAN	25- 28
C1C 801 -806	CIVIL DETAILS/OPERATIONS & MAINT. PLAN	29 - 34

PHASE 1C EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER	SHEET TITLE	PAGE NUMBER
ES1C 001	COVER SHEET	1
ES1C 002	PHASING PLAN	2
ES1C 003	PERMIT BOUNDARY & KEYMAP	3
ES1C 101	EXISTING CONDITIONS AND DEMO PLAN	4
ES1C 201-204	E&S PLANS	5-8
ES1C 301-302	NOTES	9-10
ES1C 303-304	DETAILS	11-12

PHASE 2 COUNTRY CLUB ROAD PLANS

SHEET NUMBER	SHEET TITLE
1	TITLE SHEET
2	INDEX MAP
3	RIGHT-OF-WAY BASELINE GEOMETRY
4-5	GENERAL NOTES
6	TYPICAL SECTIONS & DETAILS
7-9	ROADWAY PLANS
10-12	PROFILE VIEWS
13	TRUCK TURNING MOVEMENTS
14	SIGHT TRIANGLES
15-21	CROSS SECTION VIEWS
22	DETOUR

SUPPLEMENTAL/ SUPPORTING PLANS

- MASTERPLAN FOR PAX-1
- PAX-1 FINAL SUBDIVISION PLAN
- PAX-1 PRELIMINARY SUBDIVISION PLAN
- PHASE II COUNTRY CLUB ROAD PLANS

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	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:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

COVER

SHEET NO.

C1C 001

CONSTRUCTION

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. NO LIGHTING, TEMPORARY OR OTHERWISE, SHALL BE USED AT NIGHT (DUSK UNTIL DAWN).

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. THIS PLAN IS NOT INTENDED TO REPRESENT ANY SUBSURFACE CONDITIONS, INCLUDING THE LOCATION OF BEDROCK OR OTHER GEOLOGICAL CONDITIONS.
6. 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.
7. 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.
8. 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.
9. THE APPLICANT SHALL COMPLY WITH ALL TOWNSHIP REGULATIONS IN EFFECT AT THE TIME OF THE FILING OF THE PLAN.
10. 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.
11. ALL EXISTING OFFSITE IMPERVIOUS AND STRUCTURES SHOWN ARE APPROXIMATE NOT SURVEYED.
12. 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.
13. 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.
14. 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 BEFORE THE TOWNSHIP BOARD OF SUPERVISORS FOR REVIEW AND COMMENT PRIOR TO ANY DECISIONS AS TO APPROVAL OR DENIAL OF SAID CHANGE.
15. THE OWNERS OF THESE LOTS, UPON NOTIFICATION BY MIDDLESEX TOWNSHIP, SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF SIDEWALKS TO TOWNSHIP SPECIFICATIONS WITHIN SIX (6) MONTHS OF THE DATE OF SUCH NOTIFICATION.
16. THE OWNERS OF THESE LOTS, UPON NOTIFICATION BY MIDDLESEX TOWNSHIP, SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF CONCRETE CURBS TO TOWNSHIP SPECIFICATION WITHIN SIX (6) MONTHS OF THE DATE OF SUCH NOTIFICATION.
17. THE PROPERTY OWNERS SHALL NOT OBSTRUCT OR ALTER THE FLOW, LOCATION, OR CARRYING CAPACITY OF A STREAM, CHANNEL, OR DRAINAGE SWALE TO THE DETRIMENT OF ANY OTHER PROPERTY OWNER, WHETHER UPSTREAM OR DOWNSTREAM.
18. AN AS-BUILT PLAN SHALL BE SUBMITTED TO THE TOWNSHIP IN ACCORDANCE WITH SECTION 406 OF THE MIDDLESEX TOWNSHIP STORMWATER MANAGEMENT ORDINANCE.
19. OUTSIDE PERMIT AND APPROVALS REQUIRED FOR FINAL PLAN APPROVAL AND CONSTRUCTION
    - NPDES MINOR MODIFICATION (PERMIT NO. PAC210079___) ISSUED BY CUMBERLAND COUNTY CONSERVATION DISTRICT AND PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
    - EROSION AND SEDIMENTATION CONTROL PLAN APPROVAL ISSUED BY CUMBERLAND COUNTY CONSERVATION DISTRICT
    - MAJOR SUBDIVISION PLAN APPROVAL PAX-1
    - PRELIMINARY LAND DEVELOPMENT APPROVAL PAX-1 PHASE 1C

REV	DATE	COMMENTS	BY
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB
			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:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

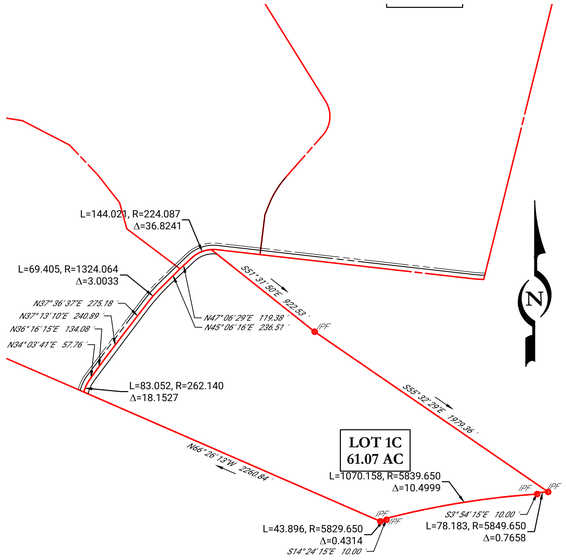
1660 INTERNATIONAL DRIVE MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

GENERAL NOTES

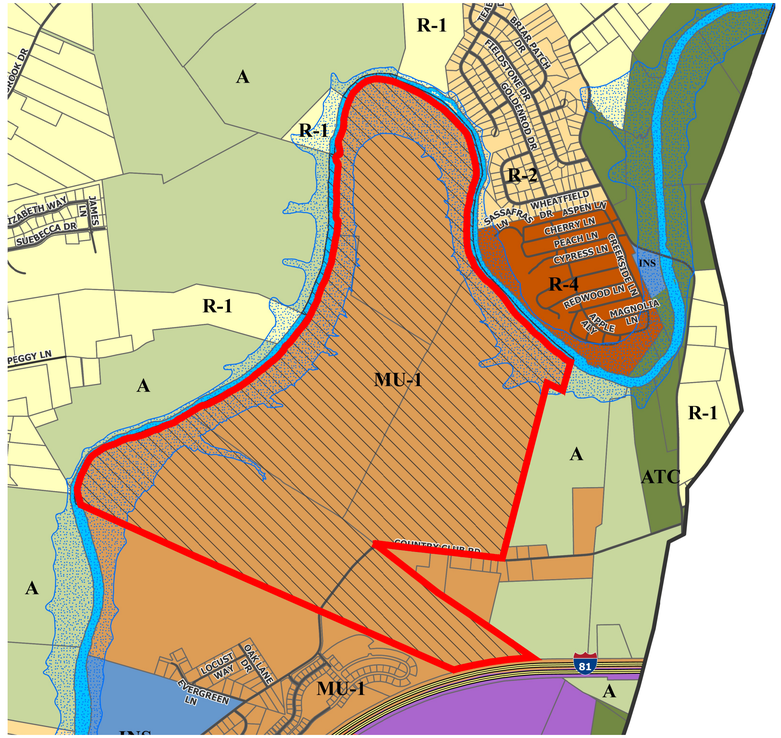
SHEET NO.

C1C 002



TRACT MAP

SCALE: 1 INCH - 500 FEET



ZONING MAP

NOT TO SCALE

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:
   PROJECT BOLT 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 CAMPUSES, A PPL SUBSTATION, 3 CUSTOMER SUBSTATIONS, A NEW PROPOSED PRIVATE STREET WITH PUBLIC ACCESS ROAD "PA DATA DRIVE" IS PROPOSED.
   THE INTENT OF THIS PLAN IS TO SHARE THE BROADER VISION FOR THE FULL BUILD OUT OF THE PROJECT. THIS PLAN PROVIDES CONCEPTUAL DETAIL ON ACCESS ROADS, UTILITY INFRASTRUCTURE, PRELIMINARY STORMWATER LOCATION AND SIZING AS WELL AS OVERALL CAMPUS CONFIGURATIONS, AND PRELIMINARY LOT CONFIGURATIONS. THIS SET ALSO DEMONSTRATES THE PHASES OF PERMITTING AND CONSTRUCTION WHICH ARE ANTICIPATED FOR ADVANCEMENT OF THE DEVELOPMENT.
5. SOURCE OF TITLE:
   * CARLISLE DEVELOPMENT PARTNERS, LLC
   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: 61.07
NUMBER OF EXISTING AND PROPOSED LOTS: 1
WATER SUPPLY: NO NEW USE IS PROPOSED
- ❖ EXISTING: PUBLIC
- ❖ PROPOSED: PUBLIC

SEWAGE DISPOSAL: NO NEW USE IS PROPOSED
- ❖ EXISTING: PUBLIC
- ❖ PROPOSED: PUBLIC

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 1C 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 NEIGHBORHOOD (MU-1) | DATA CENTER OVERLAY (DCO)
- ❖ FOR THIS PLAN AND PROJECT THE DATA CENTER OVERLAY DISTRICT SHALL GOVERN

PROPOSED USE: TEMPORARY CONSTRUCTION TRAILER SITE

	REQUIRED	PROPOSED
LOT REQUIREMENTS		
❖ MIN LOT SIZE	25 AC	61.07 AC
❖ MIN LOT WIDTH	200 FT	± 1,360 FT
❖ MAX LOT COVERAGE	70%	313,759 SF/7.20 AC/11.79%
❖ MAX IMPERVIOUS COVERAGE	70%	313,759 SF/7.20 AC/11.79%
❖ MAX BUILDING HEIGHT	75 FT	N/A
YARD SETBACKS		
❖ FRONT*	35 FT	85 FT
❖ SIDE* (EACH)	35 FT	155 FT
❖ REAR*	35 FT	1,143 FT
❖ * SETBACKS AND BUILDING MASSING ADJACENT TO RESIDENTIAL -	100 FT	N/A
PARKING SETBACKS		
❖ SETBACKS AND BUILDING MASSING ADJACENT TO RESIDENTIAL -	50 FT	N/A
LINEAR FEET OF NEW STREETS	N/A	0 FT

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

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		
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

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	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:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

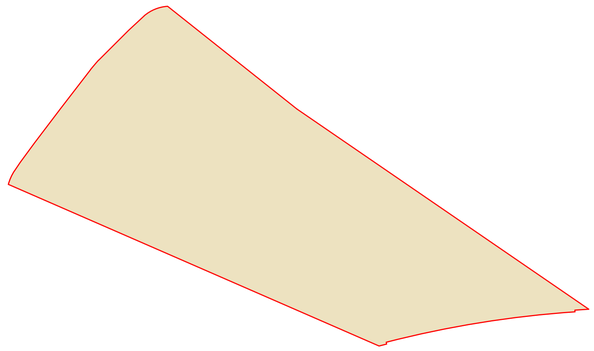
1660 INTERNATIONAL DRIVE MCLEAN, VA 22102 PHONE: (703) 234-3056

SHEET TITLE

GENERAL INFORMATION

SHEET NO.

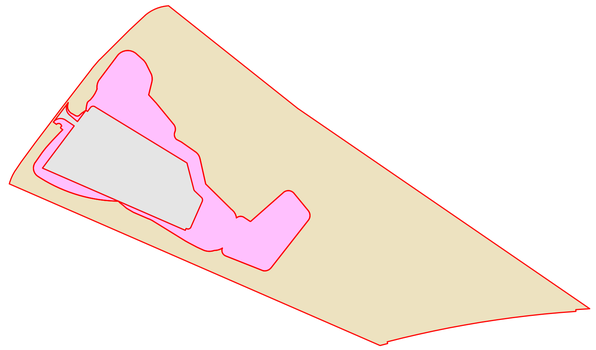
C1C 003



EXISTING CONDITIONS GROUND COVER MAP

SCALE: 1 INCH = 400 FEET

TOTAL ACREAGE: 61.07 ACRES
MEADOW: 61.07 ACRES 100%



PROPOSED CONDITIONS GROUND COVER MAP

SCALE: 1 INCH = 400 FEET

TOTAL ACREAGE: 61.07 ACRES
IMPERVIOUS: 7.20 ACRES 11.79%
MEADOW: 44.68 ACRES 73.16%
OPEN SPACE: 9.19 ACRES 15.05%

REV	DATE	COMMENTS	BY	CHKD
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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

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.

C1C 004

LEGEND

PHASE 1C SHEETS

DEVELOPMENT PROPERTY/AREA

NOTES:

- REFER TO PAX-1 MASTER PLAN FOR ADDITIONAL INFORMATION SURROUNDING PHASE 1C
- 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.

1,000' BUILDING FACADE SETBACK

PHASE 1B

PHASE 2

PHASE 3

PHASE 1A

PHASE 1C

SUBSTATION 1 GRAN

SUBSTATION 2 QRTZ

SUBSTATION 3 SLAT

PPL SUBSTATION BERN

SHEETS C1C 006, C1C 007, C1C 008, C1C 009, C1C 101

500 0 500 1,000 FT

HORIZONTAL SCALE: 1 INCH = 500 FEET

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)

PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

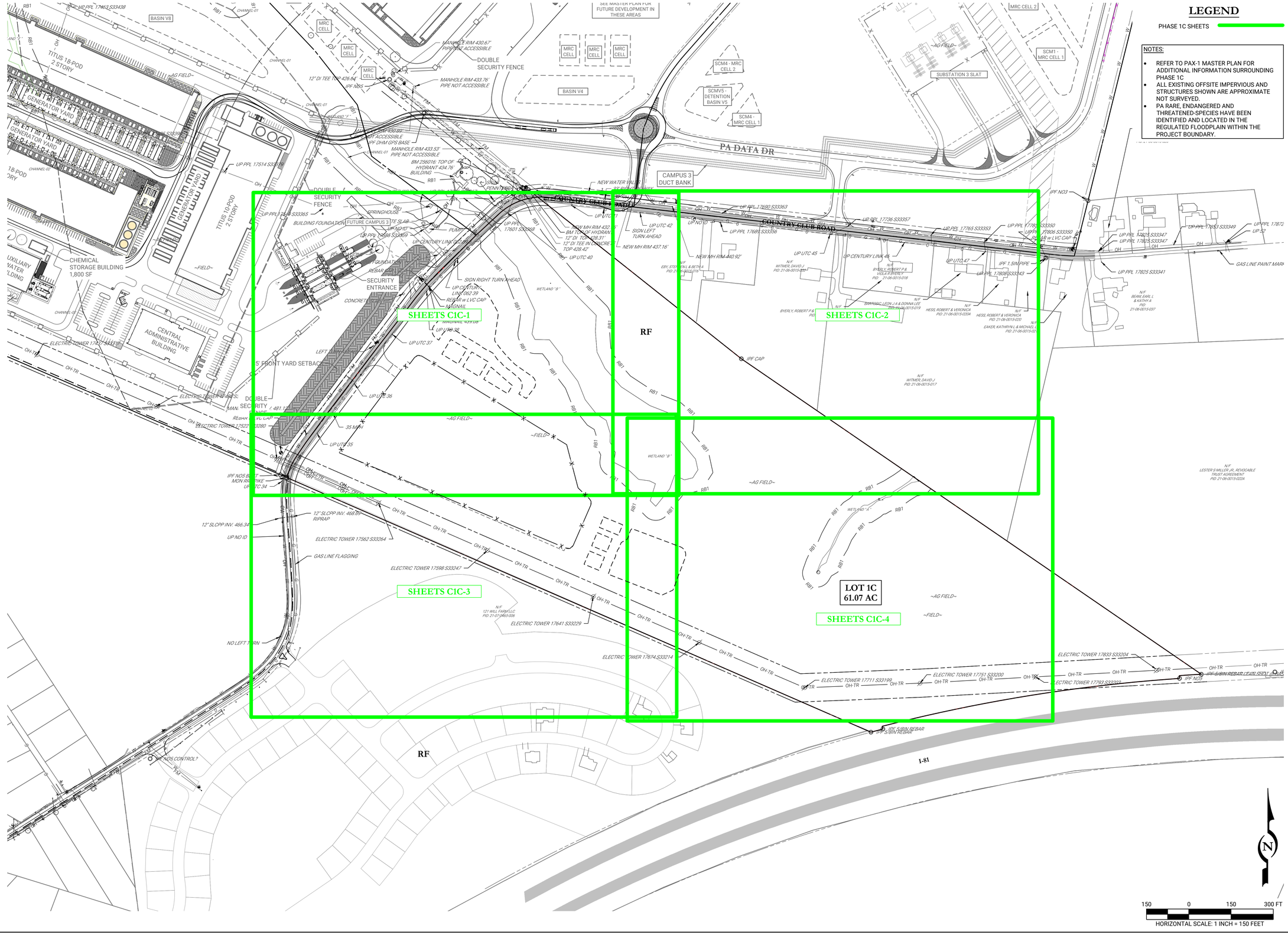
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

MASTERPLAN KEYMAP

SHEET NO.

C1C 005



REV	DATE	COMMENTS	BY	CHKD
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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

PHASE 1C KEYMAP

SHEET NO.

C1C 006

NOTES:

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

HORIZONTAL SCALE: 1 INCH = 150 FEET

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

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PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

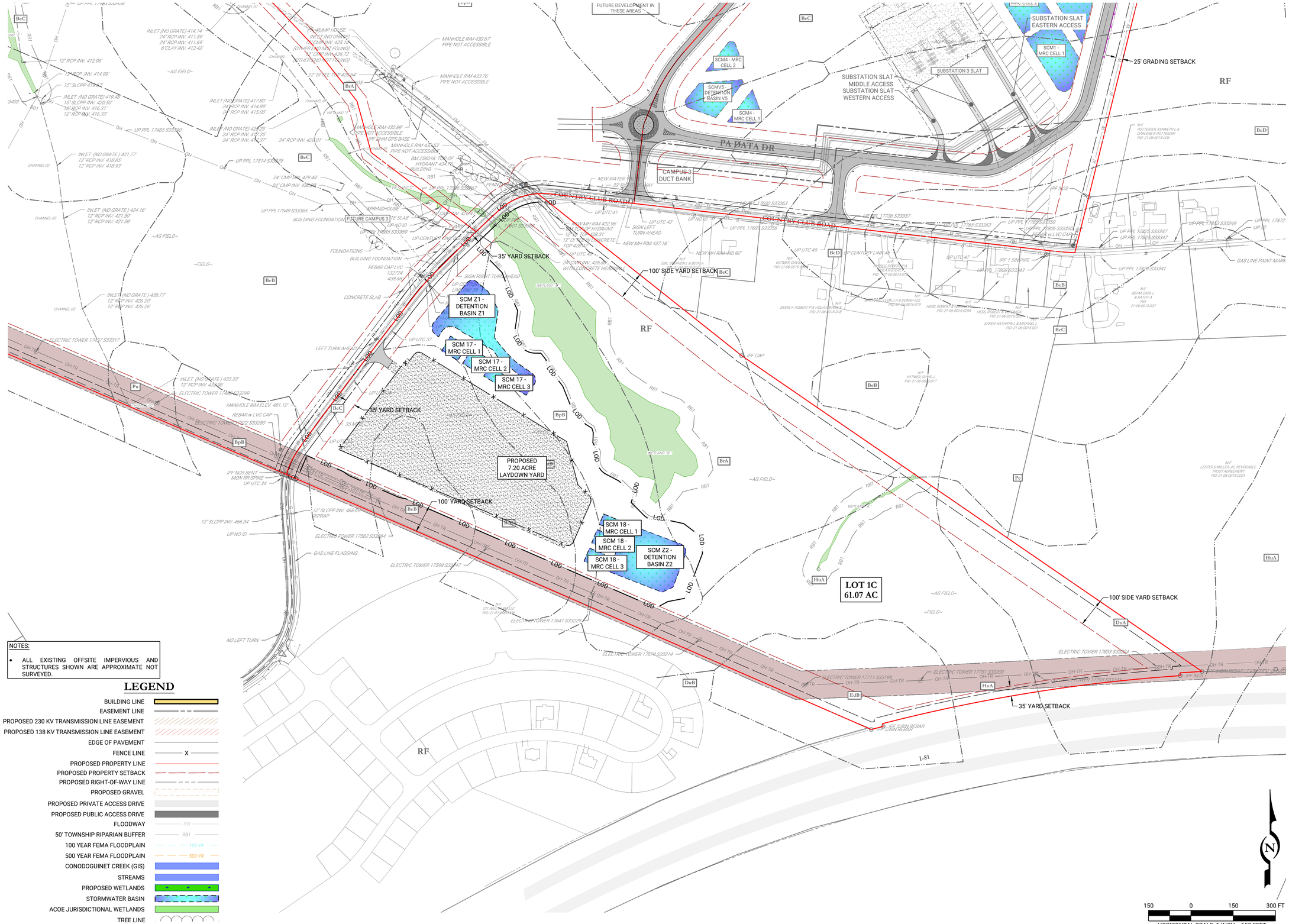
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

OVERALL EXISTING CONDITIONS & DEMO PLAN

SHEET NO.

C1C 007



NOTES:

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

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
- 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

HORIZONTAL SCALE: 1 INCH = 150 FEET

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

ISSUE / REVISIONS

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PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

OVERALL SITE LAYOUT PLAN

SHEET NO.

C1C 008

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
- 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

NOTES:

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SEE MASTER PLAN FOR FUTURE DEVELOPMENT IN THESE AREAS

SUBSTATION SLAT EASTERN ACCESS

SUBSTATION SLAT MIDDLE ACCESS

SUBSTATION SLAT WESTERN ACCESS

SUBSTATION 3 SLAT

SCM1 - MRC CELL 1

SCM4 - MRC CELL 2

SCM4 - MRC CELL 1

SCM5 - DETENTION BASIN V5

25' GRADING SETBACK

35' SIDE YARD SETBACK

35' FRONT YARD SETBACK

PA PATA DR

CAMPUS 3 DUCT BANK

100' RESIDENTIAL YARD SETBACK

COUNTRY CLUB ROAD

FUTURE CAMPUS 3

SEE CCR IMPROVEMENT PLANS FOR PHASE I ROAD WIDENING AND OVERLAY

35' YARD SETBACK

100' SIDE YARD SETBACK

LOD

SCM Z1 - DETENTION BASIN Z1

SCM 17 - MRC CELL 1

SCM 17 - MRC CELL 2

SCM 17 - MRC CELL 3

PROPOSED 7.20 ACRE LAYDOWN YARD

100' YARD SETBACK

SCM 18 - MRC CELL 1

SCM 18 - MRC CELL 2

SCM 18 - MRC CELL 3

SCM Z2 - DETENTION BASIN Z2

LOT 1C
61.07 AC

100' SIDE YARD SETBACK

35' YARD SETBACK

I-81

RF

HORIZONTAL SCALE: 1 INCH = 150 FEET

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

ISSUE / REVISIONS

LIVIC civil
1015 MUMMA ROAD
2ND FLOOR
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PHONE: 888.987.1993
www.liviccivil.com

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PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

OVERALL GRADING & STORMWATER PLAN

SHEET NO.

C1C 009

STORMWATER SYSTEM EASEMENT TO BENEFIT MIDDLESEX TOWNSHIP TOWNSHIP

EXISTING PPL ELECTRIC UTILITY CORPORATION

NOTES:

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PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

OVERALL EASEMENT PLAN

SHEET NO.

C1C 010

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
- 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

NOTES:

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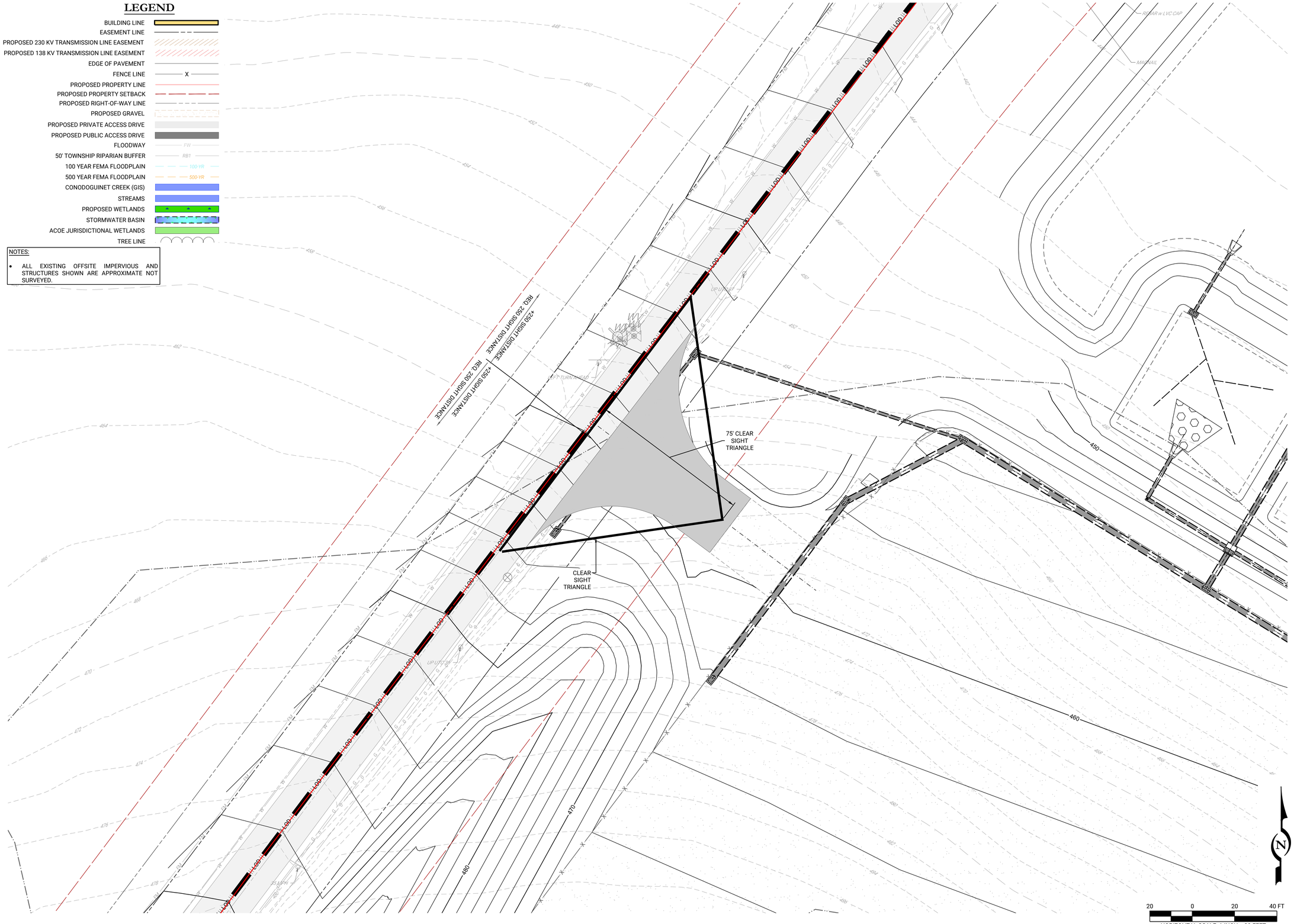

20 0 20 40 FT
HORIZONTAL SCALE: 1 INCH = 20 FEET

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

CLEAR SIGHT PLAN

SHEET NO.

C1C 011



NOTES:

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MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

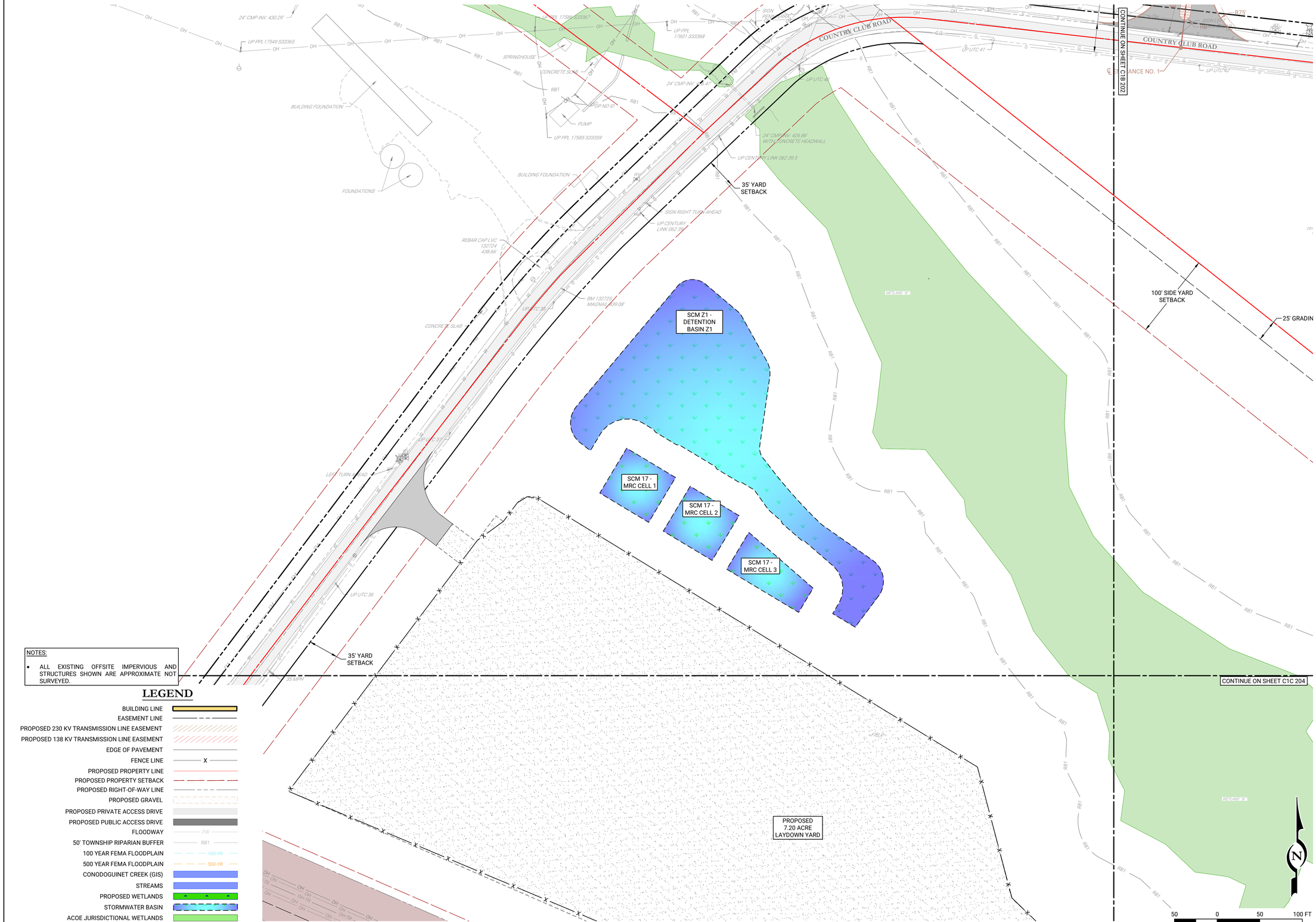
1660 INTERNATIONAL DRIVE MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

EXISTING CONDITIONS & DEMO PLAN

SHEET NO.

C1C 101


COUNTRY CLUB ROAD
CONTINUE ON SHEET C1B 202
CONTINUE ON SHEET C1C 204
35' YARD SETBACK
100' SIDE YARD SETBACK
25' GRADIN
SCM Z1 - DETENTION BASIN Z1
SCM 17 - MRC CELL 1
SCM 17 - MRC CELL 2
SCM 17 - MRC CELL 3
PROPOSED 7.20 ACRE LAYDOWN YARD
BUILDING FOUNDATION
FOUNDATIONS
SPRINGHOUSE
CONCRETE SLAB
PUMP
SIGN RIGHT TURN AHEAD
LEFT TURN HEAD
24" CMP INV. 430.29'
24" CMP INV. 426.86' WITH CONCRETE HEADWALL
REBAR CAP LVC 132724 438.66'
BM 132725 MAGNAIL 439.08'
UP PPL 17549 S33365
UP PPL 17585 S33367
UP PPL 17601 S33368
UP PPL 17585 S33359
UP CENTURY LINK 062 39.5
UP UTC 41
UP UTC 40
UP UTC 37
UP UTC 36
UP UTC 42
UP UTC 43
UP UTC 44
UP UTC 45
UP UTC 46
UP UTC 47
UP UTC 48
UP UTC 49
UP UTC 50
UP UTC 51
UP UTC 52
UP UTC 53
UP UTC 54
UP UTC



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
- 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

NOTES:

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50 0 50 100 FT

HORIZONTAL SCALE: 1 INCH = 50 FEET

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PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

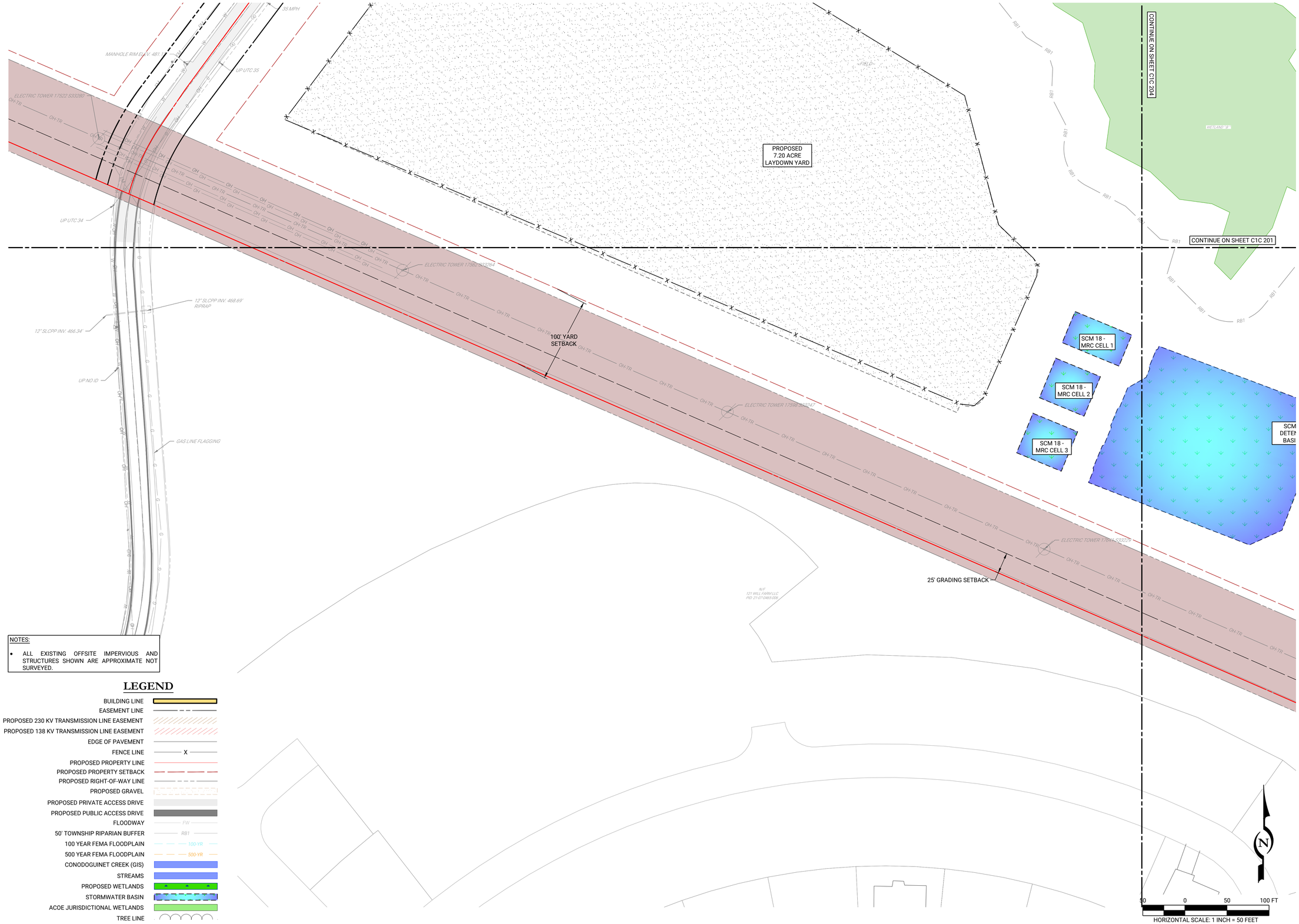
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

SITE LAYOUT PLAN

SHEET NO.

C1C 202



NOTES:

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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
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- TREE LINE

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)

PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

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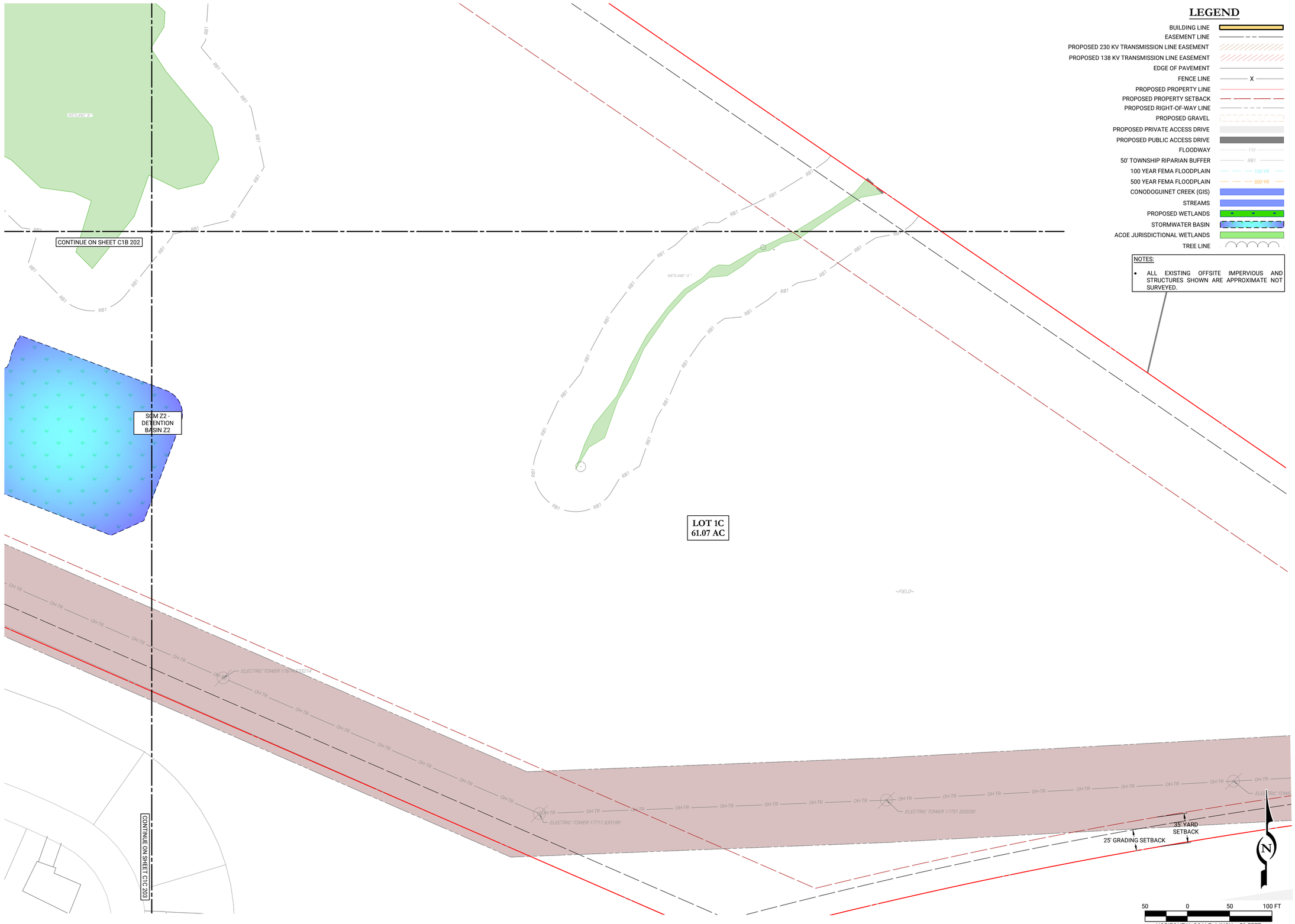
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

SITE LAYOUT PLAN

SHEET NO.

C1C 203



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
- 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

NOTES:

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

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.

C1C 204

LEGEND

- BUILDING LINE
- EASEMENT LINE
- PROPOSED 230 KV TRANSMISSION LINE EASEMENT
- PROPOSED 138 KV TRANSMISSION LINE EASEMENT
- EXISTING 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
- FLOODWAY
- 50' TOWNSHIP RIPARIAN BUFFER
- 100 YEAR FEMA FLOODPLAIN
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- TREE LINE

NOTES:

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THE SOILS ON SITE ARE COMPOSED OF THE FOLLOWING :

- ATKINS SILT LOAM (Aw), HSG: B/D
- BEDINGTON SHALY SILT LOAM (BdB), 3 TO 8 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeB), 3 TO 8 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeC), 8 TO 15 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeD), 15 TO 25 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: D
- BRINKERTON SILT LOAM (BrB), 3 TO 8 PERCENT SLOPES, HSG: D
- DUFFIELD SILT LOAM (DuA), 0 TO 3 PERCENT SLOPES, HSG: B
- DUFFIELD SILT LOAM (DuB), 3 TO 8 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdB), 3 TO 8 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdC), 8 TO 15 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdD), 15 TO 25 PERCENT SLOPES, HSG: B
- HAGERSTOWN SILT LOAM (HaB), 3 TO 8 PERCENT SLOPES, HSG: B
- HUNTINGTON SILT LOAM (HuA), 0 TO 5 PERCENT SLOPES, HSG: B
- MELVIN SILT LOAM (Me), HSG: B/D
- MIDDLEBURY SOILS (Mf), HSG: B/D
- MONONGAHELA SILT LOAM (MnB), 3 TO 8 PERCENT SLOPES, HSG: C/D
- MONONGAHELA SILT LOAM (MnC), 8 TO 15 PERCENT SLOPES, HSG: C/D
- NESHAMINY GRAVELLY SILT LOAM (NeB), 3 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY GRAVELLY SILT LOAM (NeC), 8 TO 15 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhB), 0 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhD), 8 TO 25 PERCENT SLOPES, HSG: C
- PENLAW SILT LOAM (Pe): HSG: C/D
- PURDY SILT LOAM (Pu), HSG: D
- WATER (W)
- WEIKERT VERY CHANNERY SILT LOAM (WeD), 15 TO 25 PERCENT SLOPES, HSG: D
- WEIKERT AND KLINESVILLE VERY SHALY SILT LOAMS (WkF), 25 TO 75 PERCENT SLOPES, HSG: D

SCM Z1 - DETENTION BASIN Z1

OS-Z1-1.1
T/G:447.00
INV OUT:440.84 15" SLCPP NE
BOX BOTTOM: 440.84

FES-Z1-1.1
INV IN:445.00 18" SLCPP SW

FES-Z1-1.2
INV IN:440.50 15" SLCPP SW

4' BASIN UNDERDRAIN WITH C/O AT JUNCTIONS (TYP)

FES-Z1-1.3
INV IN:440.50 30" SLCPP SW

FES-Z1-1.5
INV IN:440.50 15" SLCPP SW

OS-Z1-1.2
T/G:447.00
INV OUT:440.83 15" SLCPP NE
BOX BOTTOM: 440.83

85' SPILLWAY
ELEV: 443.50' SPILLWAY LINING: NAG SHOREMAX W/C350 REINFORCE

FES-Z1-1.7
INV IN:440.50 15" SLCPP SW

OS-Z1-1.3
T/G:447.00
INV OUT:440.83 15" SLCPP NE
BOX BOTTOM: 440.83

FES-Z1-1.8
INV IN:439.67 24" SLCPP SW

OS-Z1-1.4
T/G:443.50
INV OUT:440.00 24" SLCPP NE
BOX BOTTOM: 440.00

FES-Z1-1.4
INV IN:445.00 18" SLCPP SW

FES-Z1-1.6
INV IN:445.00 18" SLCPP SW

SCM 17 - MRC CELL 1

SCM 17 - MRC CELL 2

SCM 17 - MRC CELL 3

RFLD-Z1-1.1

RFLD-Z1-1.2

IC-1.5
T/G:464.36
INV OUT:459.36 15" SLCPP NE
BOX BOTTOM: 459.36

IC-1.4
T/G:454.98
INV IN:450.78 15" SLCPP SW
INV OUT:450.78 15" SLCPP E
BOX BOTTOM: 450.78

IC-1.3 (4X4 BOX)(SNOUT)
T/G:455.31
INV IN:450.11 15" SLCPP W
INV IN:450.32 30" SLCPP SW
INV OUT:450.11 30" SLCPP SE
BOX BOTTOM: 444.11

IC-3.2
T/G:457.81
INV IN:453.18 30" SLCPP SW
INV OUT:453.18 30" SLCPP NE
BOX BOTTOM: 453.18

IC-3.1
T/G:462.13
INV OUT:457.62 30" SLCPP NE
BOX BOTTOM: 457.62

MH-Z1-1.1
T/G:453.51
INV IN:445.00 18" SLCPP NW
INV OUT:445.00 18" SLCPP SE
INV OUT:445.00 18" SLCPP NE
BOX BOTTOM: 445.00

FS-Z1-1.1
T/G:453.08
INV IN:448.58 30" SLCPP SW
INV OUT:445.00 18" SLCPP SE
INV OUT:445.00 18" SLCPP NW
INV OUT:441.10 30" SLCPP NE
BOX BOTTOM: 441.10

IC-1.1 (4X4 BOX)
T/G:458.50
INV OUT:454.00 30" SLCPP NW
BOX BOTTOM: 454.00

IC-1.2 (4X4 BOX)(SNOUT)
T/G:456.76
INV IN:452.55 30" SLCPP SE
INV IN:449.44 30" SLCPP NW
INV OUT:449.45 30" SLCPP NE
BOX BOTTOM: 443.45

IC-2.1
T/G:459.38
INV OUT:455.88 18" SLCPP S
BOX BOTTOM: 455.88

IC-2.2
T/G:461.37
INV IN:454.32 18" SLCPP N
INV OUT:454.32 18" SLCPP SE
BOX BOTTOM: 454.32

IC-2.3
T/G:461.03
INV IN:453.69 18" SLCPP NW
INV OUT:453.69 24" SLCPP S
BOX BOTTOM: 453.69

FES-Z2-1.1
INV IN:447.00 15" SLCPP NW

PROPOSED 7.20 ACRE LAYDOWN YARD

11' BERM

LIMIT OF DISTURBANCE
18.31 AC/797,584 SF

CONTINUE ON SHEET C1C 302

CONTINUE ON SHEET C1C 303

HORIZONTAL SCALE: 1 INCH = 50 FEET

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

ISSUE / REVISIONS

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SCALE:	AS SHOWN
DRAWN BY:	RJB
CHECKED BY:	JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

GRADING & STORMWATER PLANS

SHEET NO.

C1C 301



LEGEND

- BUILDING LINE
- EASEMENT LINE
- PROPOSED 230 KV TRANSMISSION LINE EASEMENT
- PROPOSED 138 KV TRANSMISSION LINE EASEMENT
- EXISTING 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
- 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

THE SOILS ON SITE ARE COMPOSED OF THE FOLLOWING :

- ATKINS SILT LOAM (Aw), HSG: B/D
- BEDINGTON SHALY SILT LOAM (BdB), 3 TO 8 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeB), 3 TO 8 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeC), 8 TO 15 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeD), 15 TO 25 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: D
- BRINKERTON SILT LOAM (BrB), 3 TO 8 PERCENT SLOPES, HSG: D
- DUFFIELD SILT LOAM (DuA), 0 TO 3 PERCENT SLOPES, HSG: B
- DUFFIELD SILT LOAM (DuB), 3 TO 8 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdB), 3 TO 8 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdC), 8 TO 15 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdD), 15 TO 25 PERCENT SLOPES, HSG: B
- HAGERSTOWN SILT LOAM (HaB), 3 TO 8 PERCENT SLOPES, HSG: B
- HUNTINGTON SILT LOAM (HuA), 0 TO 5 PERCENT SLOPES, HSG: B
- MELVIN SILT LOAM (Me), HSG: B/D
- MIDDLEBURY SOILS (Mf), HSG: B/D
- MONONGAHELA SILT LOAM (MnB), 3 TO 8 PERCENT SLOPES, HSG: C/D
- MONONGAHELA SILT LOAM (MnC), 8 TO 15 PERCENT SLOPES, HSG: C/D
- NESHAMINY GRAVELLY SILT LOAM (NeB), 3 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY GRAVELLY SILT LOAM (NeC), 8 TO 15 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhB), 0 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhD), 8 TO 25 PERCENT SLOPES, HSG: C
- PENLAW SILT LOAM (Pe): HSG: C/D
- PURDY SILT LOAM (Pu), HSG: D
- WATER (W)
- WEIKERT VERY CHANNERY SILT LOAM (WeD), 15 TO 25 PERCENT SLOPES, HSG: D
- WEIKERT AND KLINESVILLE VERY SHALY SILT LOAMS (WkF), 25 TO 75 PERCENT SLOPES, HSG: D

NOTES:

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

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

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	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:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

GRADING & STORMWATER PLANS

SHEET NO.

C1C 302

THE SOILS ON SITE ARE COMPOSED OF THE FOLLOWING :

- ATKINS SILT LOAM (Aw), HSG: B/D
- BEDINGTON SHALY SILT LOAM (BdB), 3 TO 8 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeB), 3 TO 8 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeC), 8 TO 15 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeD), 15 TO 25 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: D
- BRINKERTON SILT LOAM (BrB), 3 TO 8 PERCENT SLOPES, HSG: D
- DUFFIELD SILT LOAM (DuA), 0 TO 3 PERCENT SLOPES, HSG: B
- DUFFIELD SILT LOAM (DuB), 3 TO 8 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdB), 3 TO 8 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdC), 8 TO 15 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdD), 15 TO 25 PERCENT SLOPES, HSG: B
- HAGERSTOWN SILT LOAM (HaB), 3 TO 8 PERCENT SLOPES, HSG: B
- HUNTINGTON SILT LOAM (HuA), O TO 5 PERCENT SLOPES, HSG: B
- MELVIN SILT LOAM (Me), HSG: B/D
- MIDDLEBURY SOILS (Mf), HSG: B/D
- MONONGAHELA SILT LOAM (MnB), 3 TO 8 PERCENT SLOPES, HSG: C/D
- MONONGAHELA SILT LOAM (MnC), 8 TO 15 PERCENT SLOPES, HSG: C/D
- NESHAMINY GRAVELLY SILT LOAM (NeB), 3 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY GRAVELLY SILT LOAM (NeC), 8 TO 15 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhB), 0 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhD), 8 TO 25 PERCENT SLOPES, HSG: C
- PENLAW SILT LOAM (Pe): HSG: C/D
- PURDY SILT LOAM (Pu), HSG: D
- WATER (W)
- WEIKERT VERY CHANNERY SILT LOAM (WeD), 15 TO 25 PERCENT SLOPES, HSG: D
- WEIKERT AND KLINESVILLE VERY SHALY SILT LOAMS (WkF), 25 TO 75 PERCENT SLOPES, HSG: D

LEGEND

- BUILDING LINE
- EASEMENT LINE
- PROPOSED 230 KV TRANSMISSION LINE EASEMENT
- PROPOSED 138 KV TRANSMISSION LINE EASEMENT
- EXISTING 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
- 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

NOTES:

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HORIZONTAL SCALE: 1 INCH = 50 FEET

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

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PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

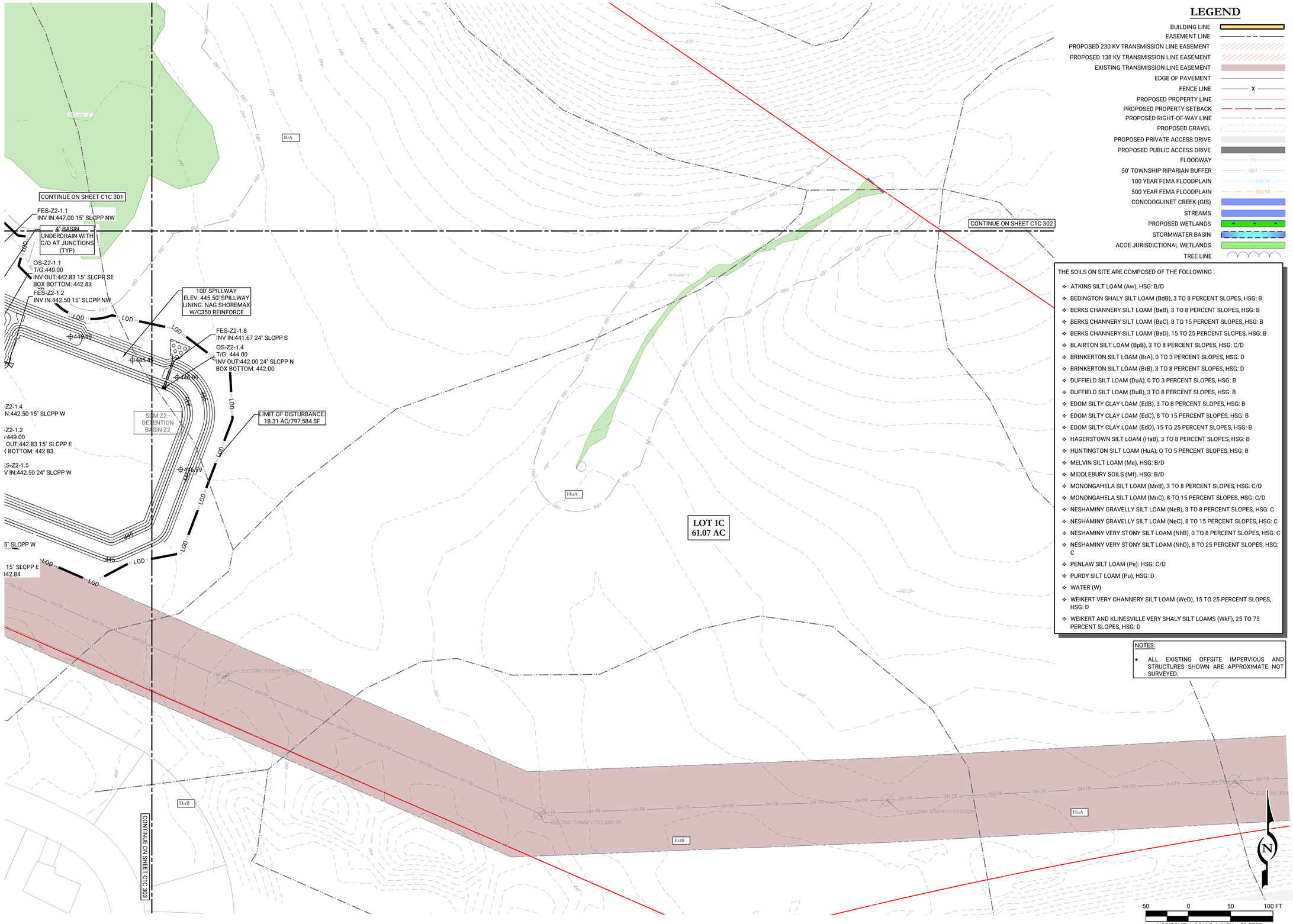
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

GRADING & STORMWATER PLANS

SHEET NO.

C1C 303



LEGEND

- BUILDING LINE
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- PROPOSED PUBLIC ACCESS DRIVE
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- BERKS CHANNERY SILT LOAM (BeC), 8 TO 15 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeD), 15 TO 25 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: D
- BRINKERTON SILT LOAM (BrB), 3 TO 8 PERCENT SLOPES, HSG: D
- DUFFIELD SILT LOAM (DuA), 0 TO 3 PERCENT SLOPES, HSG: B
- DUFFIELD SILT LOAM (DuB), 3 TO 8 PERCENT SLOPES, HSG: B
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- EDOM SILTY CLAY LOAM (EdC), 8 TO 15 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdD), 15 TO 25 PERCENT SLOPES, HSG: B
- HAGERSTOWN SILT LOAM (HaB), 3 TO 8 PERCENT SLOPES, HSG: B
- HUNTINGTON SILT LOAM (HuA), 0 TO 5 PERCENT SLOPES, HSG: B
- MELVIN SILT LOAM (Me), HSG: B/D
- MIDDLEBURY SOILS (Mf), HSG: B/D
- MONONGAHELA SILT LOAM (MnB), 3 TO 8 PERCENT SLOPES, HSG: C/D
- MONONGAHELA SILT LOAM (MnC), 8 TO 15 PERCENT SLOPES, HSG: C/D
- NESHAMINY GRAVELLY SILT LOAM (NeB), 3 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY GRAVELLY SILT LOAM (NeC), 8 TO 15 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhB), 0 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhD), 8 TO 25 PERCENT SLOPES, HSG: C
- PENLAW SILT LOAM (Pe): HSG: C/D
- PURDY SILT LOAM (Pu), HSG: D
- WATER (W)
- WEIKERT VERY CHANNERY SILT LOAM (WeD), 15 TO 25 PERCENT SLOPES, HSG: D
- WEIKERT AND KLINESVILLE VERY SHALY SILT LOAMS (WkF), 25 TO 75 PERCENT SLOPES, HSG: D

NOTES:

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HORIZONTAL SCALE: 1 INCH = 50 FEET

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

ISSUE / REVISIONS

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PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

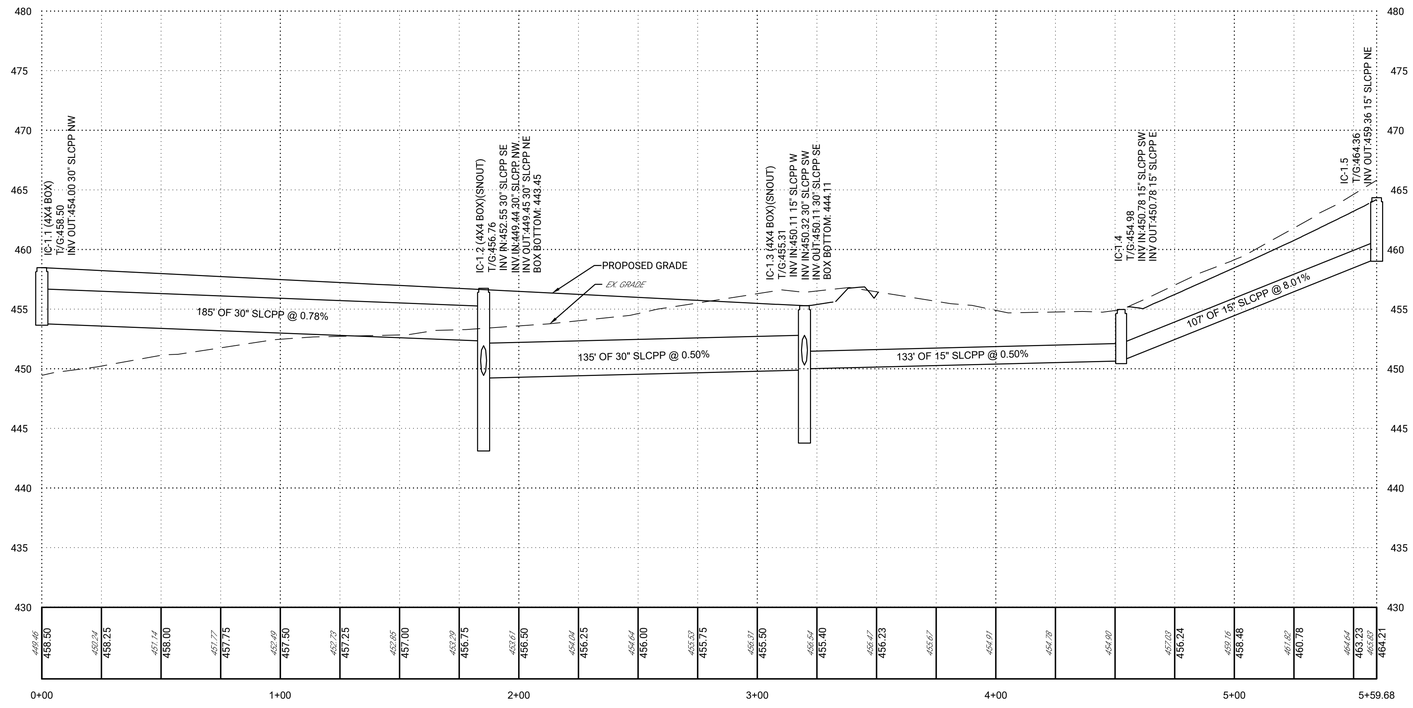
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

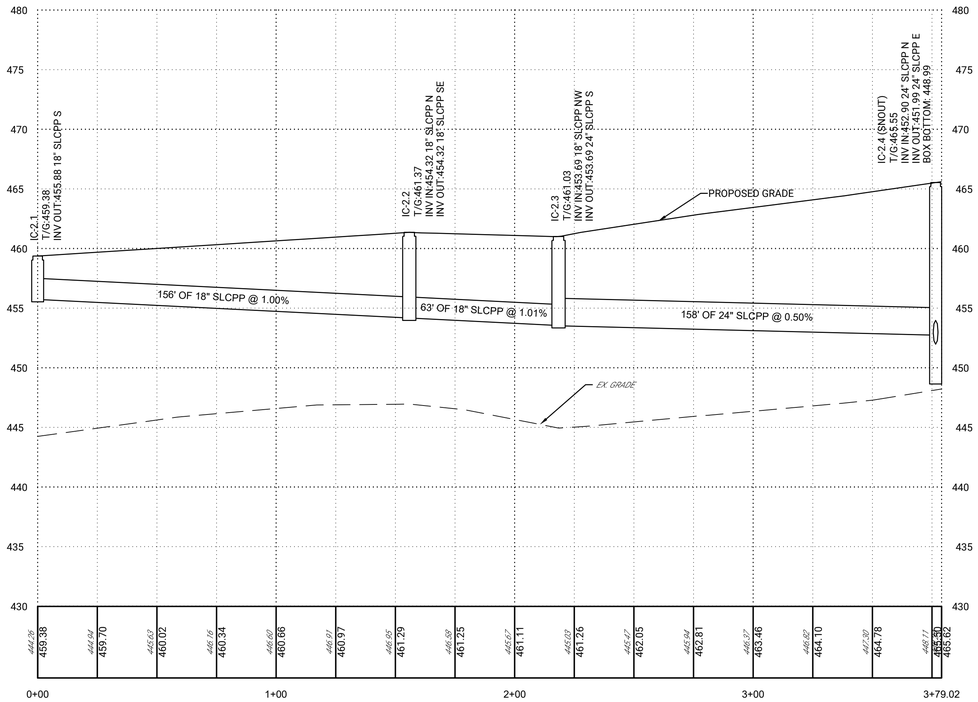
GRADING & STORMWATER PLANS

SHEET NO.

C1C 304



ALGN - IC-1.1 - IC-1.5 PROFILE



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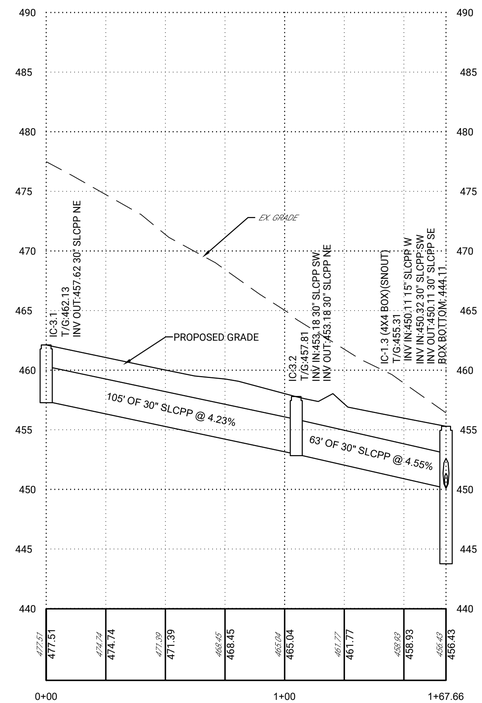

IC-3.1 - IC-1.3 PROFILE

6 0 6 12 FT
HORIZONTAL SCALE: 1 INCH = 6 FEET

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

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

ISSUE / REVISIONS

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PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

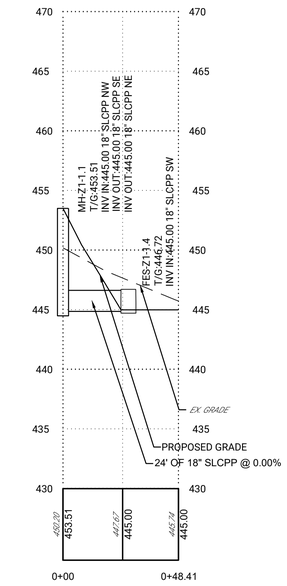
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

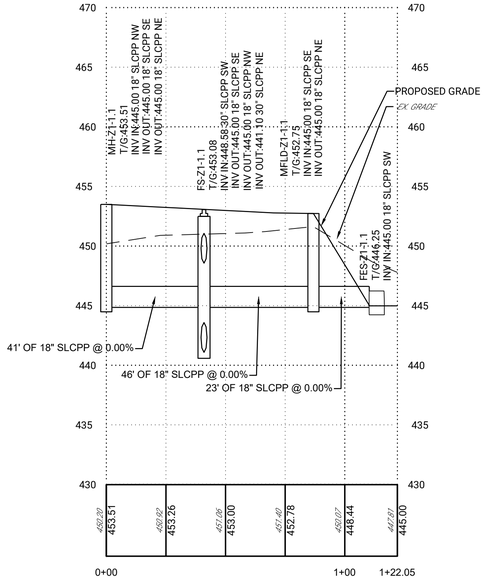
PROFILE PLAN

SHEET NO.

C1C 501



MH-Z1-1.1 - FES-Z1-1.4 PROFILE



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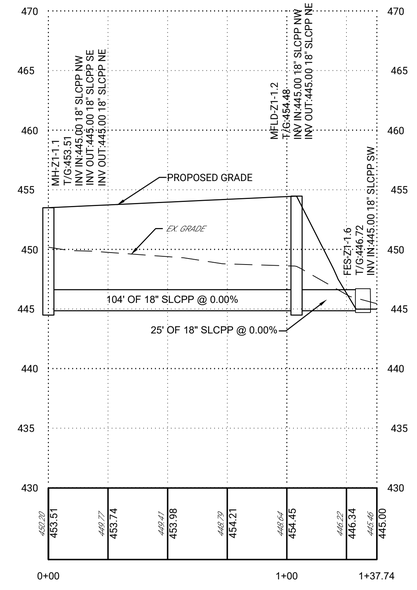
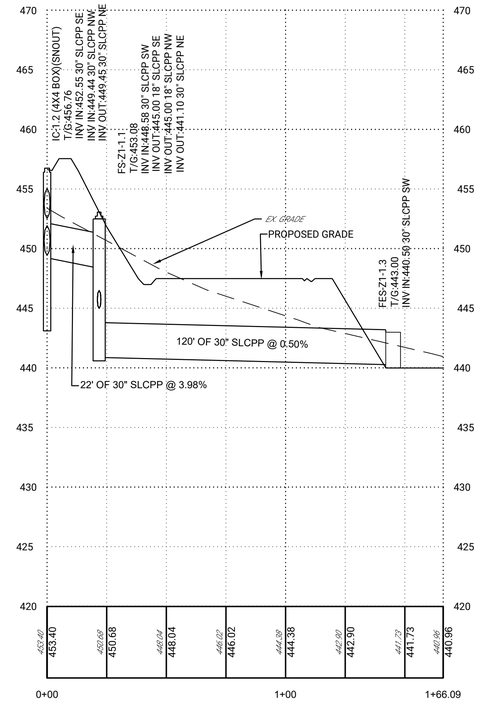
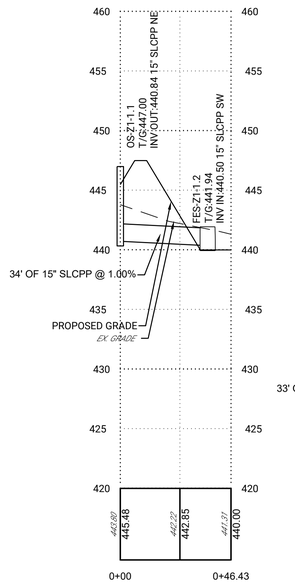


FS-Z1-1.1 - FES-Z1-1.6 PROFILE



IC-1.2 - FES-Z1-1.3 PROFILE



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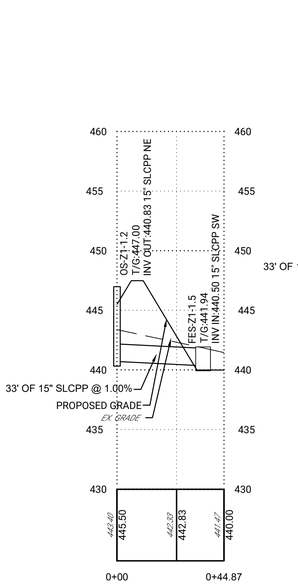
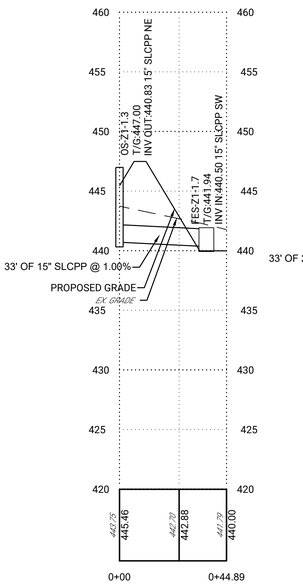
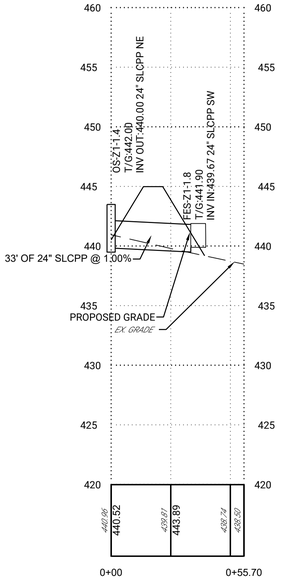


OS-Z1-1.2 - FES-Z1-1.5 PROFILE



OS-Z1-1.3 - FES-Z1-1.7 PROFILE



OS-Z1-1.4 - FES-Z1-1.8 PROFILE

6 0 6 12 FT
HORIZONTAL SCALE: 1 INCH = 6 FEET

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

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

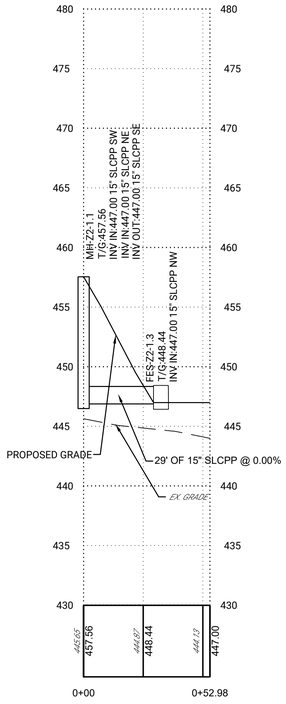
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

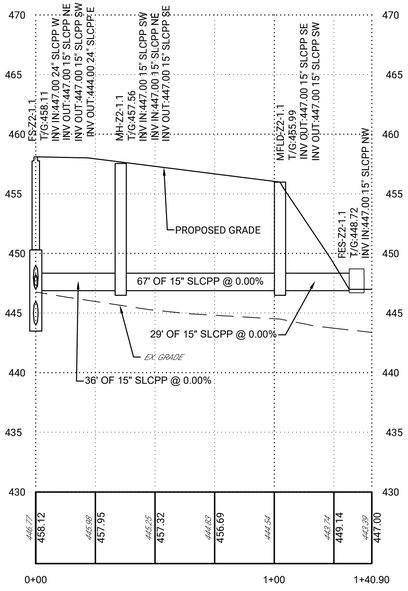
PROFILE PLAN

SHEET NO.

C1C 502

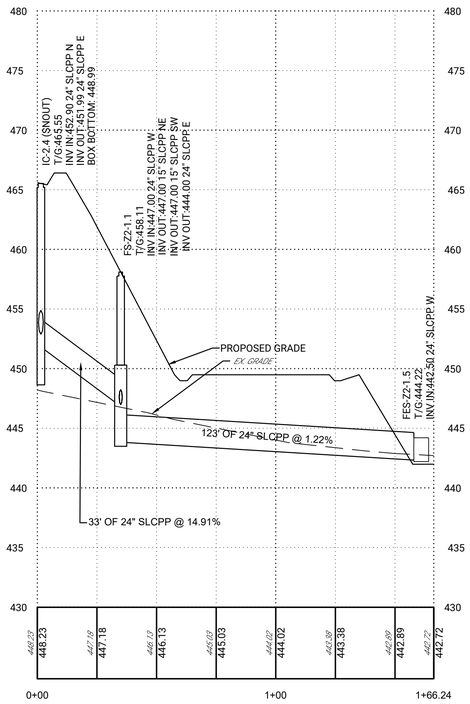


MH-Z2-1.1 - FES-Z2-1.3 PROFILE

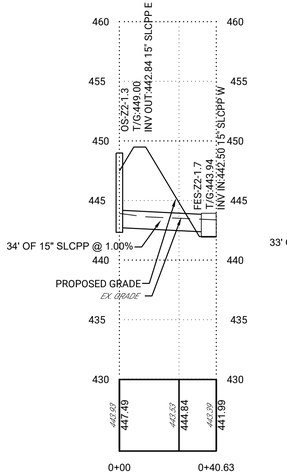


FS-Z2-1.1 - FES-Z2-1.1 PROFILE

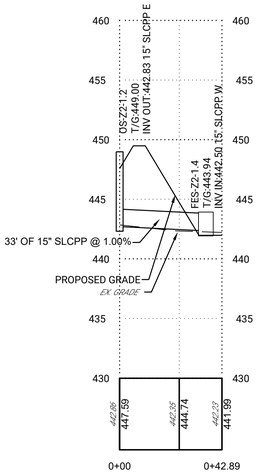
FS-Z2-1.1 - FES-Z2-1.6 PROFILE



IC-2.4 - FES-Z2-1.5 PROFILE



OS-Z2-1.3 - FES-Z2-1.7 PROFILE



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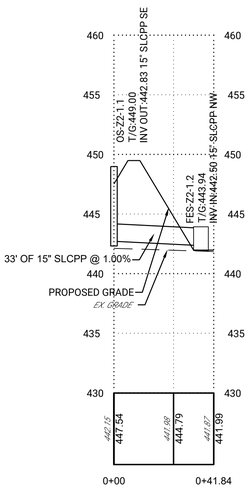
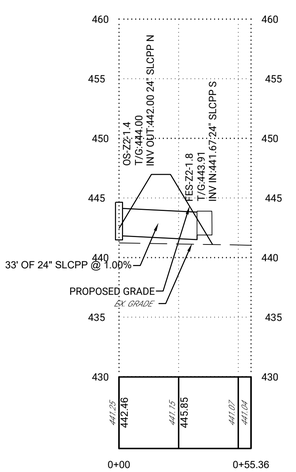


OS-Z2-1.1 - FES-Z2-1.2 PROFILE



OS-Z2-1.4 - FES-Z2-1.8 PROFILE

6 0 6 12 FT
HORIZONTAL SCALE: 1 INCH = 6 FEET

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

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

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CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

1660 INTERNATIONAL DRIVE
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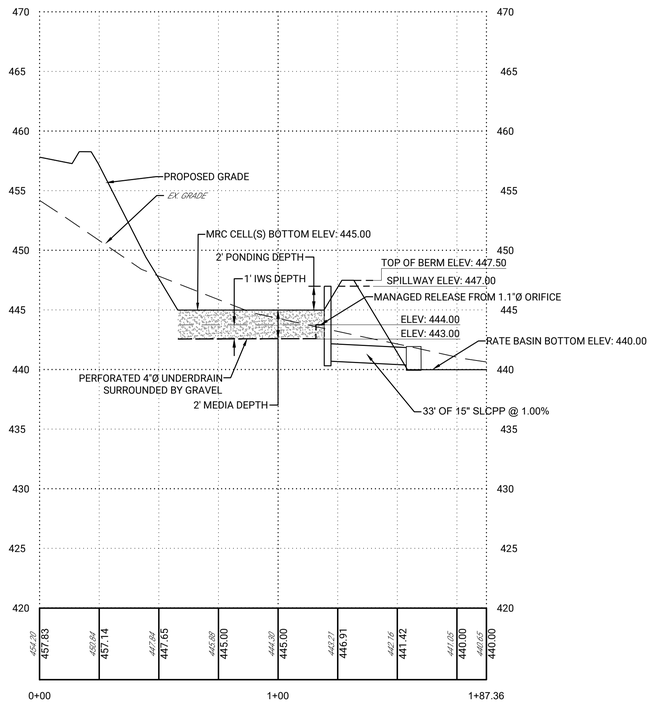
SHEET TITLE

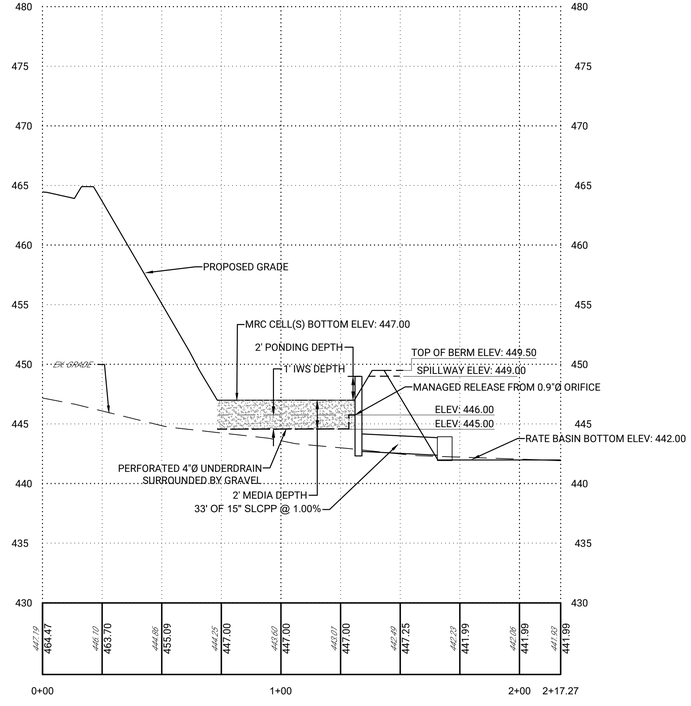
PROFILE PLAN

SHEET NO.

C1C 503



Z1 MRC CELLS PROFILE



Z2 MRC CELLS PROFILE

6 0 6 12 FT
HORIZONTAL SCALE: 1 INCH = 6 FEET

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

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SHEET TITLE

PROFILE PLAN

SHEET NO.

C1C 504

PHASE 1C OVERALL PLANT SCHEDULE

KEY	QTY	BOTANICAL	COMMON NAME	SIZE	ROOT	COMMENTS
EVERGREEN TREES						
	24	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6-8' HGT.	CONT.	12' O.C.
	14	PINUS STROBUS	WHITE PINE	6-8' HGT.	B & B	12' O.C.
	35	THUJA PICATA "GREEN GIANT"	GIANT GREEN ARBORVITAE	6-8' HGT.	CONT.	12' O.C.
	35	PICEA ABIES	NORWAY SPRUCE	6-8' HGT.	CONT.	12' O.C.

PHASE 1C C1C 601 PLANT SCHEDULE

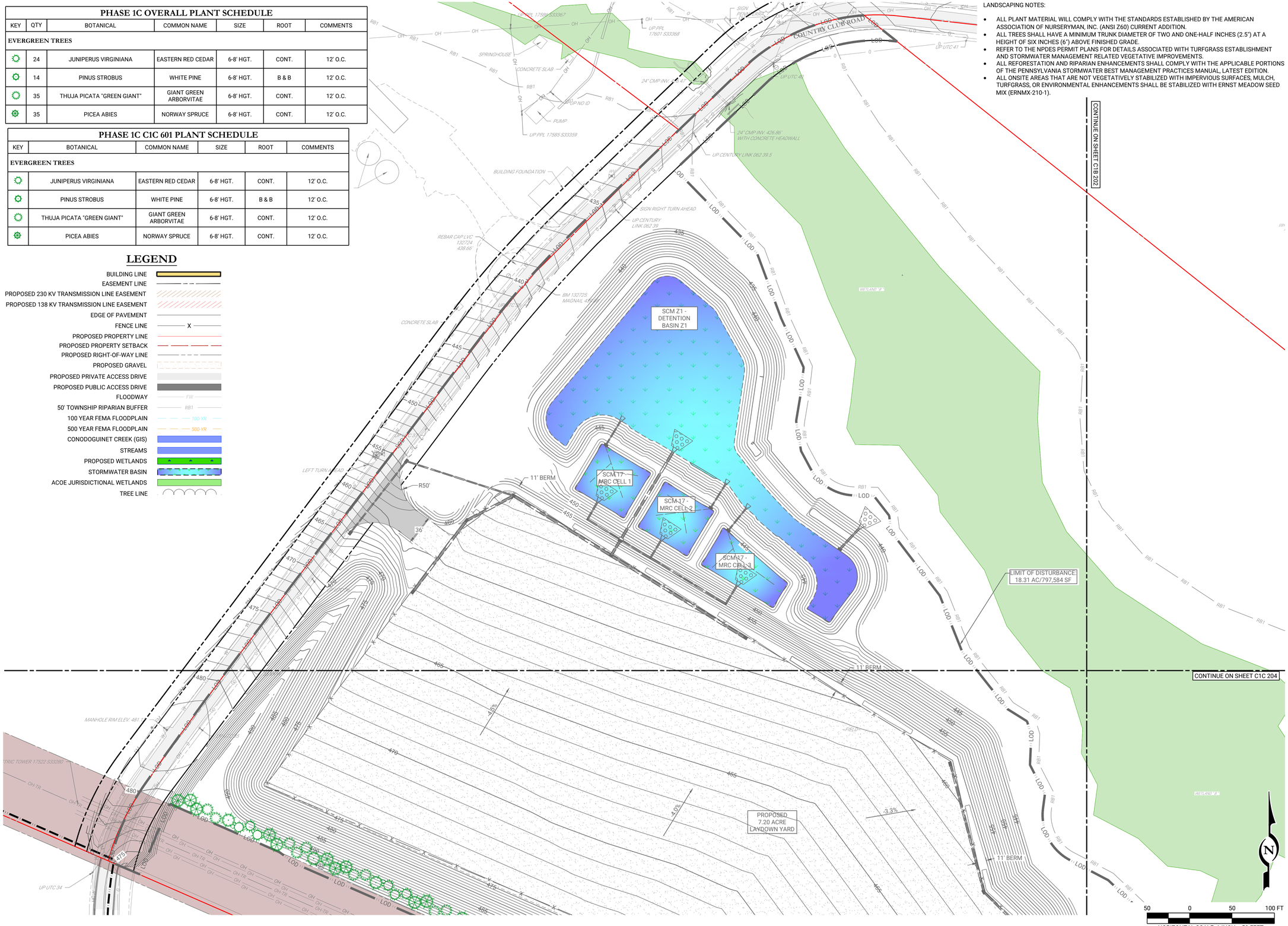
KEY	BOTANICAL	COMMON NAME	SIZE	ROOT	COMMENTS
EVERGREEN TREES					
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6-8' HGT.	CONT.	12' O.C.
	PINUS STROBUS	WHITE PINE	6-8' HGT.	B & B	12' O.C.
	THUJA PICATA "GREEN GIANT"	GIANT GREEN ARBORVITAE	6-8' HGT.	CONT.	12' O.C.
	PICEA ABIES	NORWAY SPRUCE	6-8' HGT.	CONT.	12' O.C.

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
- 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

LANDSCAPING NOTES:

- ALL PLANT MATERIAL WILL COMPLY WITH THE STANDARDS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN, INC. (ANSI Z60) CURRENT ADDITION.
- ALL TREES SHALL HAVE A MINIMUM TRUNK DIAMETER OF TWO AND ONE-HALF INCHES (2.5") AT A HEIGHT OF SIX INCHES (6") ABOVE FINISHED GRADE.
- REFER TO THE 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 ONSITE 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).



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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

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.

C1C 601



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
- 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

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CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

LANDSCAPING PLAN

SHEET NO.

C1C 602



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
- 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

PHASE 1C C1C 603 PLANT SCHEDULE

KEY	BOTANICAL	COMMON NAME	SIZE	ROOT	COMMENTS
EVERGREEN TREES					
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6-8' HGT.	CONT.	12' O.C.
	PINUS STROBUS	WHITE PINE	6-8' HGT.	B & B	12' O.C.
	THUJA PICATA "GREEN GIANT"	GIANT GREEN ARBORVITAE	6-8' HGT.	CONT.	12' O.C.
	PICEA ABIES	NORWAY SPRUCE	6-8' HGT.	CONT.	12' O.C.

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

REV	DATE	COMMENTS	BY	CHKD
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MCLEAN, VA 22102
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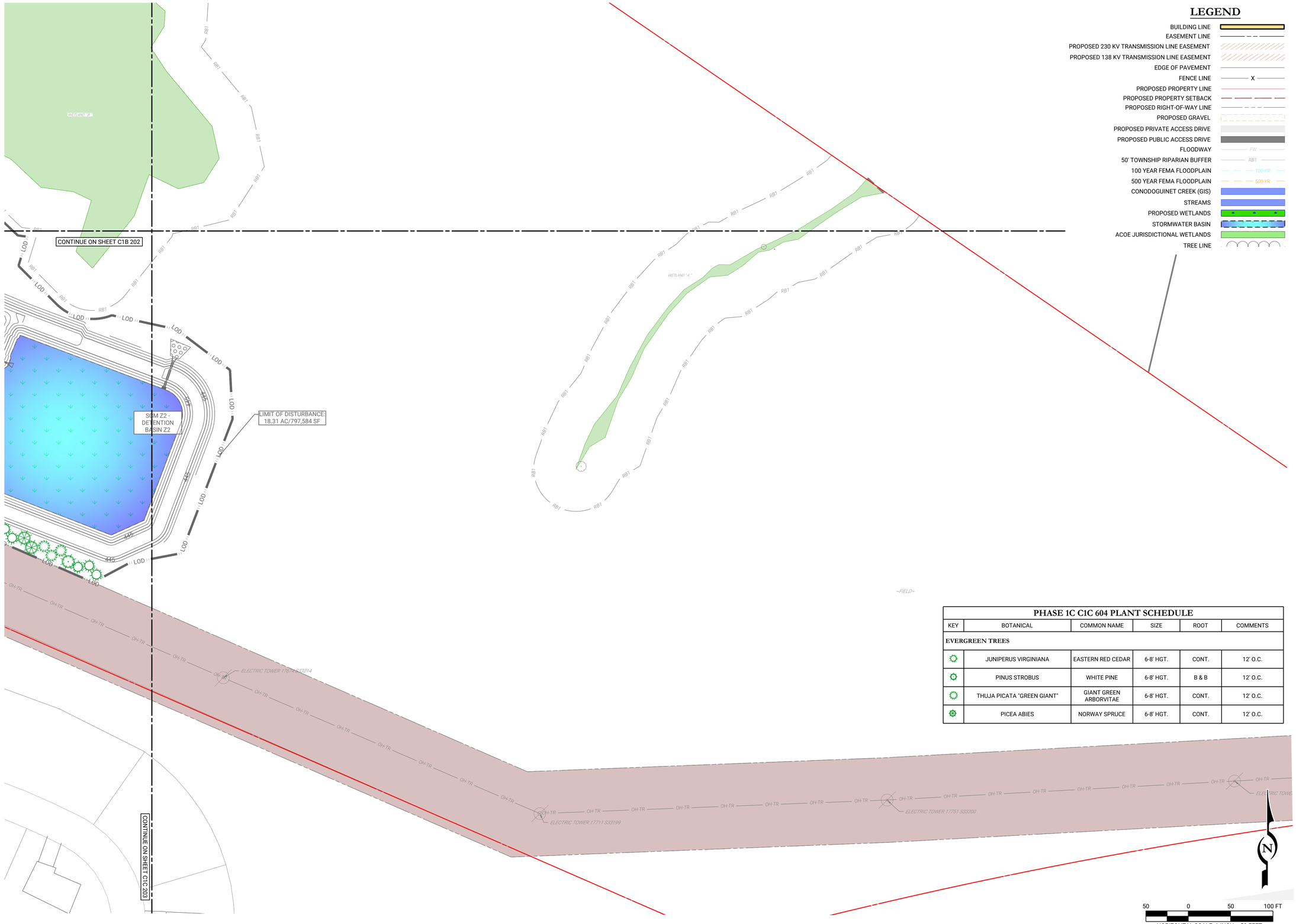
SHEET TITLE

LANDSCAPING PLAN

SHEET NO.

C1C 603



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
- 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

PHASE 1C C1C 604 PLANT SCHEDULE

KEY	BOTANICAL	COMMON NAME	SIZE	ROOT	COMMENTS
EVERGREEN TREES					
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6-8' HGT.	CONT.	12' O.C.
	PINUS STROBUS	WHITE PINE	6-8' HGT.	B & B	12' O.C.
	THUJA PICATA "GREEN GIANT"	GIANT GREEN ARBORVITAE	6-8' HGT.	CONT.	12' O.C.
	PICEA ABIES	NORWAY SPRUCE	6-8' HGT.	CONT.	12' O.C.

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

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PENNSYLVANIA

CLIENT

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1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
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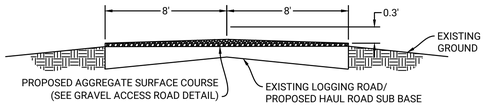
SHEET TITLE

LANDSCAPING PLAN

SHEET NO.

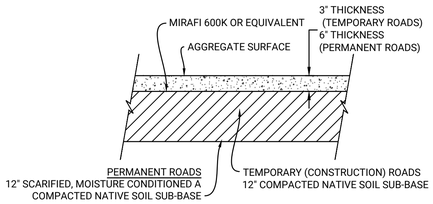
C1C 604



*SEE PLANS FOR SLOPE
ALL GRAVEL ACCESS ROADS TO BE CONSTRUCTED FLUSH WITH FINISHED GRADE
ALTERNATES PROPOSED TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION

TYPICAL SECTION GRAVEL ACCESS ROAD

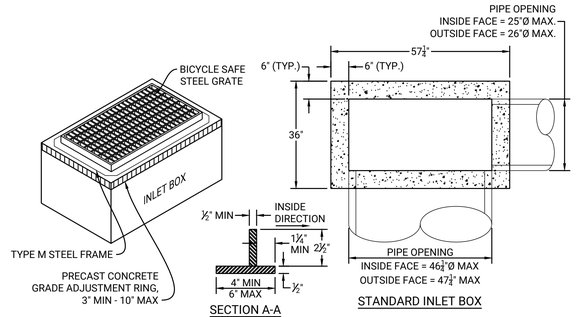
NOT TO SCALE



* ALTERNATES PROPOSED TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

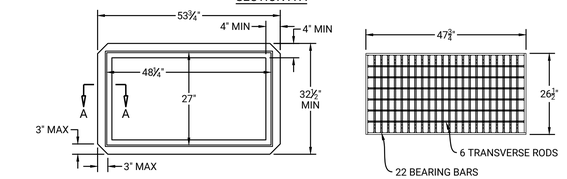
TYPICAL GRAVEL ACCESS ROAD DETAIL

NOT TO SCALE



SECTION A-A

STANDARD INLET BOX



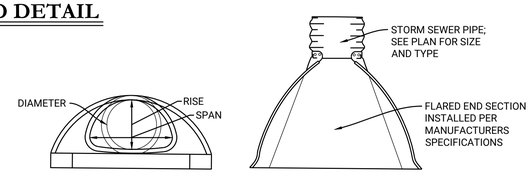
STEEL FRAME PLAN VIEW

STRUCTURAL STEEL GRATE BICYCLE SAFE

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.

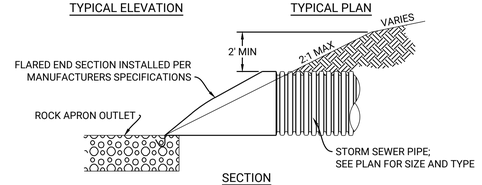
STANDARD INLET BOX - TYPE M STEEL FRAME

NOT TO SCALE



TYPICAL ELEVATION

TYPICAL PLAN



SECTION

HDPE FLARED END SECTION

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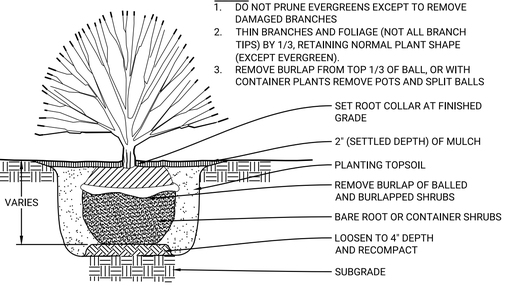
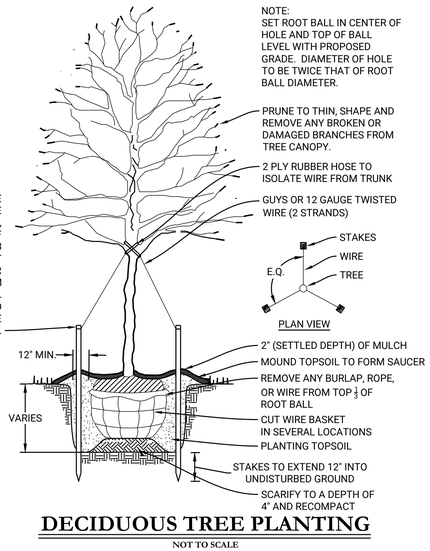


SHRUB PLANTING

NOT TO SCALE



DECIDUOUS TREE PLANTING

NOT TO SCALE

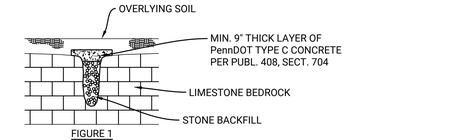


FIGURE 1

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.

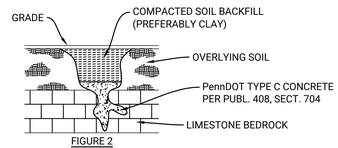


FIGURE 2

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.

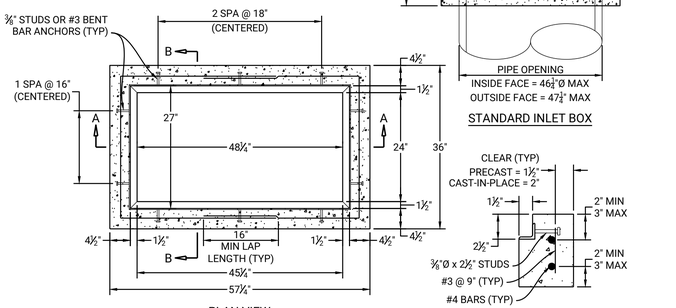
A PROFESSIONAL GEOLOGIST OR SOILS ENGINEER SHALL BE CONSULTED DURING CONSTRUCTION ACTIVITY IN THE VICINITY OF ANY KNOWN CLOSED DEPRESSIONS, SINK HOLES, ROCK OUTCROPS, FRACTURE TRACES, ETC., OR IF ANY ABNORMAL SOIL OR SUBGRADE CONDITIONS ARE ENCOUNTERED ELSEWHERE ON THE SITE. ANY PREVENTATIVE AND/OR CORRECTIVE 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

STRUCTURAL STEEL GRATE BICYCLE SAFE

STANDARD INLET BOX



PLAN VIEW

DETAIL 1

SECTION A-A

SECTION B-B

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 CONCRETE TOP

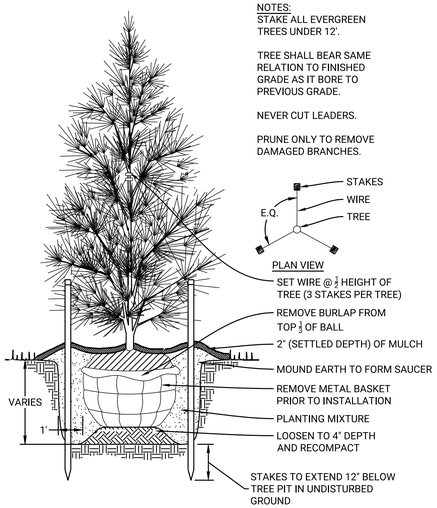
NOT TO SCALE

NOTES:
STAKE ALL EVERGREEN TREES UNDER 12'.

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

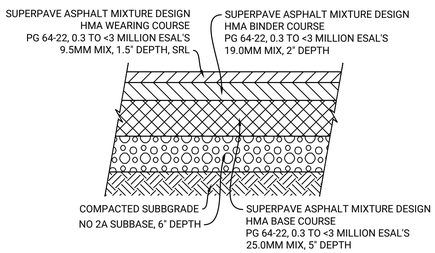
NEVER CUT LEADERS.

PRUNE ONLY TO REMOVE DAMAGED BRANCHES.



EVERGREEN TREE PLANTING

NOT TO SCALE



STANDARD ASPHALT PAVEMENT

NOT TO SCALE

REV	DATE	ISSUE / REVISIONS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR
		COMMENTS		

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:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

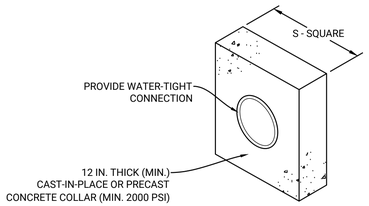
1660 INTERNATIONAL DRIVE MCLEAN, VA 22102 PHONE: (703) 234-3056

SHEET TITLE

CIVIL DETAILS

SHEET NO.

C1C 801



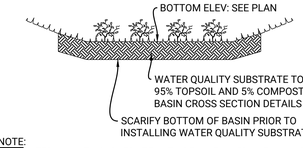
BASIN OR TRAP NO.	PIPE SIZE (IN)	S (IN)	NO. OF COLLARS
Z1	24	39	2
Z2	24	42	1

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

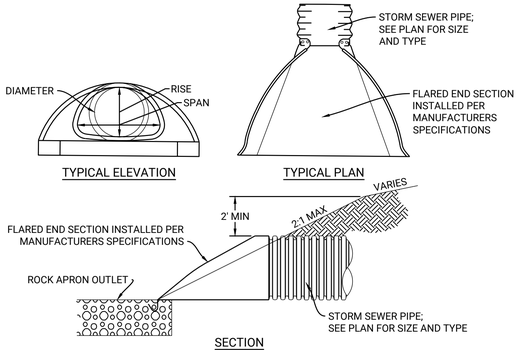


NOTE:
THE WATER QUALITY SUBSTRATE IS TO BE INSTALLED WITH LIGHT MACHINERY TO AVOID COMPACTION. IT IS RECOMMENDED THAT A SOIL SAMPLE ANALYSIS BE PERFORMED PRIOR TO INSTALLATION TO ENSURE THE PROPER MIX IS BEING USED. THE SEEDING SHALL BE INSTALLED DURING A TIME IN WHICH NO RAIN IS PREDICTED TO AIDE IN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



HDPE FLARED END SECTION

NOT TO SCALE

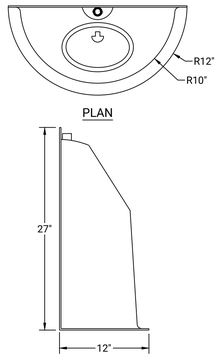
WATER QUALITY BMP-AMENDED SOIL (BASINS Z1 & Z2)

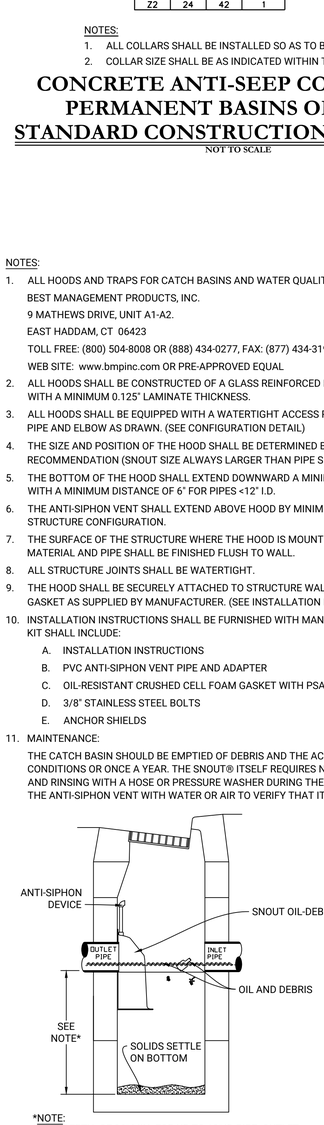
NOT TO SCALE

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



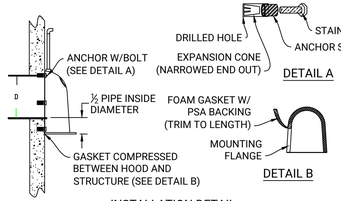


*NOTE:
SUMP DEPTH OF 36" MIN. FOR UP TO 12" ID PIPE. OUTLET. FOR PIPES 15" ID AND ABOVE SUMP DEPTH OF 2.5 TO 3 TIMES PIPE ID RECOMMENDED (E.G. 5' DEEP for 24" PIPE)

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".



WATER QUALITY STRUCTURE-SNOUT

NOT TO SCALE

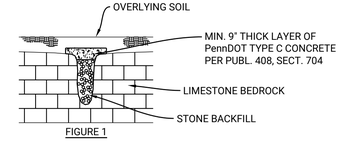


FIGURE 1

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.

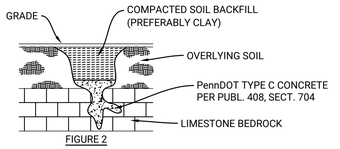


FIGURE 2

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

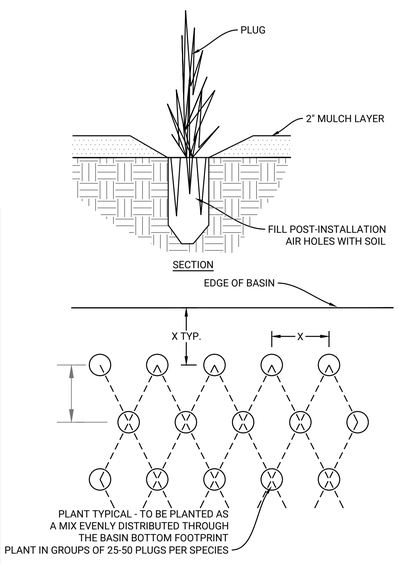
NOT TO SCALE

GRASSES AND PERENNIALS - MRC CELLS

QTY.	BOTANICAL NAME	COMMON NAME	SIZE	NOTE
Z1 - 198 Z2 - 140	CAREX LURIDA	SALLOW SEDGE	5" PLUG	PLANT 36" OC
Z1 - 198 Z2 - 140	CAREX STRICTA	TUSSOCK SEDGE	5" PLUG	PLANT 36" OC
Z1 - 198 Z2 - 140	JUNCUS EFFUSUS	COMMON RUSH	5" PLUG	PLANT 36" OC
Z1 - 198 Z2 - 140	ASCLEPIAS INCARNATA	SWAMP MILKWEED	5" PLUG	PLANT 36" OC
Z1 - 198 Z2 - 140	EUPATORIUM FISTULASUM	JOE PYE WEED	5" PLUG	PLANT 36" OC
Z1 - 198 Z2 - 140	LOBELIA CARDINALIS	CARDINAL FLOWER	5" PLUG	PLANT 36" OC
Z1 - 198 Z2 - 140	SOLIDAGO GRAMINIFOLIA	GRASS-LEAVED GOLDENROD	5" PLUG	PLANT 36" OC
Z1 - 198 Z2 - 140	VERBENA HASTATA	BLUE VERVAIN	5" PLUG	PLANT 36" OC

NOTES:

1. QUANTITY FOR MRC BASINS IS THE TOTAL FOR ALL MRC CELLS



PLUG PLANTING

NOT TO SCALE

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

ISSUE / REVISIONS

LIVIC civil
1015 MUMMA ROAD
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PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

CIVIL DETAILS

SHEET NO.

C1C 802

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: $SAR = [Na^{+}]/\sqrt{([Ca^{2+}] + [Mg^{2+}])/2}$ 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

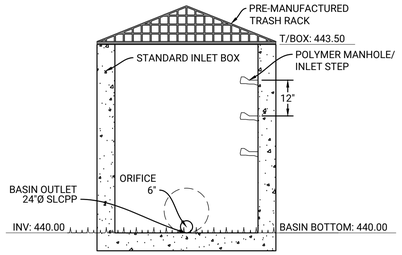
SOIL MEDIA

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

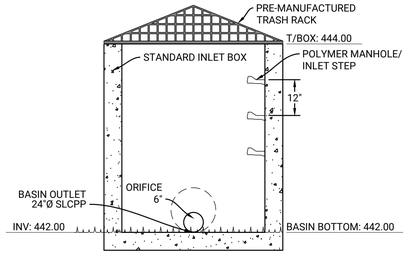
NOT TO SCALE



LOOKING DOWNSTREAM

BASIN Z1 OUTLET STRUCTURE

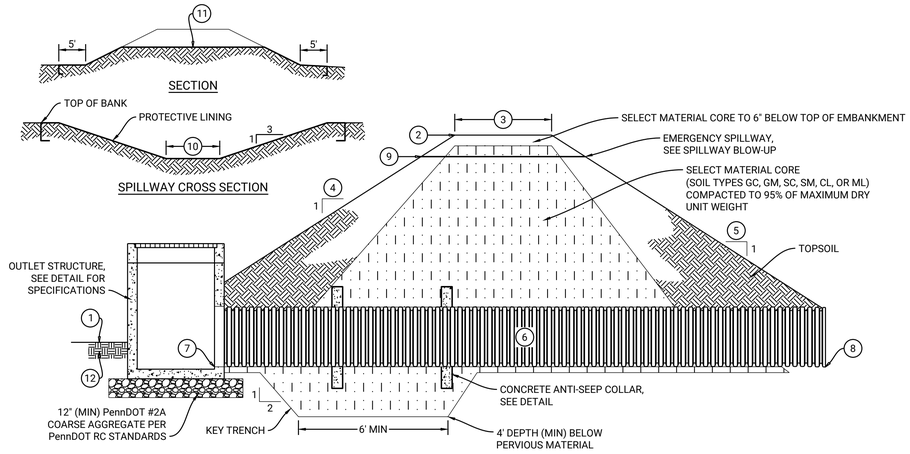
NOT TO SCALE



LOOKING DOWNSTREAM

BASIN Z2 OUTLET STRUCTURE

NOT TO SCALE

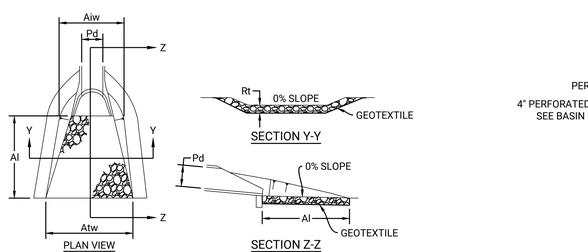


BASIN CROSS SECTION

BASIN KEY	BASIN FEATURE	BASIN SUMMARY	
		BASIN Z1	BASIN Z2
1	BASIN BOTTOM ELEVATION	440.00	442.00
2	BERM ELEVATION	445.00	447.00
3	BERM WIDTH	8'	8'
4	BASIN SIDE SLOPE-INSIDE (Z:1)	3	3
5	BASIN SIDE SLOPE-OUTSIDE (Z:1)	3	3
6	OUTLET PIPE (ADS HP STORM PIPE)	24"	24"
7	INFLOW INVERT ELEVATION	440.00	442.00
8	OUTFLOW INVERT ELEVATION	SEE PROFILE	SEE PROFILE
9	SPILLWAY ELEVATION	443.50	445.5
10	SPILLWAY WIDTH	85'	100'
11	SPILLWAY LINING	SHOREMAX W/C350	SHOREMAX W/C350
12	AMENDED SOIL DEPTH (BASINS & CELLS)	24"	24"

MRC BASIN

NOT TO SCALE



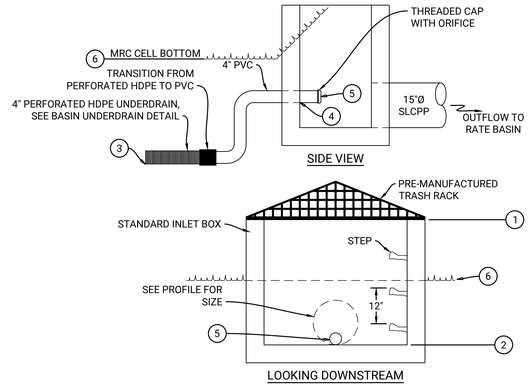
OUTLET No.	PIPE Ø Pd (IN)	RIPRAP		APRON		
		SIZE R-#	THICK Rt (IN)	LENGTH Al (FT)	INITIAL WIDTH Aiw (FT)	TERMINAL WIDTH Atw (FT)
FES Z1-1.1	18	R-3	9	8	4.5	12.5
FES Z1-1.3	30	R-4	18	16	7.5	23.5
FES Z1-1.4	18	R-3	9	8	4.5	12.5
FES Z1-1.6	18	R-3	9	8	4.5	12.5
FES Z1-1.8	24	R-4	18	12	6	18
FES Z2-1.1	18	R-3	9	8	4.5	12.5
FES Z2-1.3	18	R-3	9	8	4.5	12.5
FES Z2-1.5	24	R-4	18	12	6	18
FES Z2-1.6	18	R-3	9	8	4.5	12.5
FES Z2-1.8	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



OS KEY	OUTLET STRUCTURE FEATURE		
		BASIN Z1	BASIN Z2
1	TOP OF STRUCTURE	447.00	449.00
2	INVERT OUT	440.83	442.83
3	BASIN UNDERDRAIN INVERT	443.00	445.00
4	BASIN UNDERDRAIN INVERT IN	444.00	446.00
5	ORIFICE DIAMETER	1.1"	0.8"
6	MRC CELL BOTTOM	445.00	447.00

MRC CELL OUTLET STRUCTURE

NOT TO SCALE

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	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:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

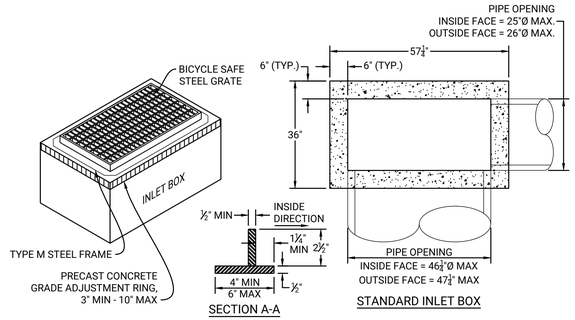
1660 INTERNATIONAL DRIVE MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

CIVIL DETAILS

SHEET NO.

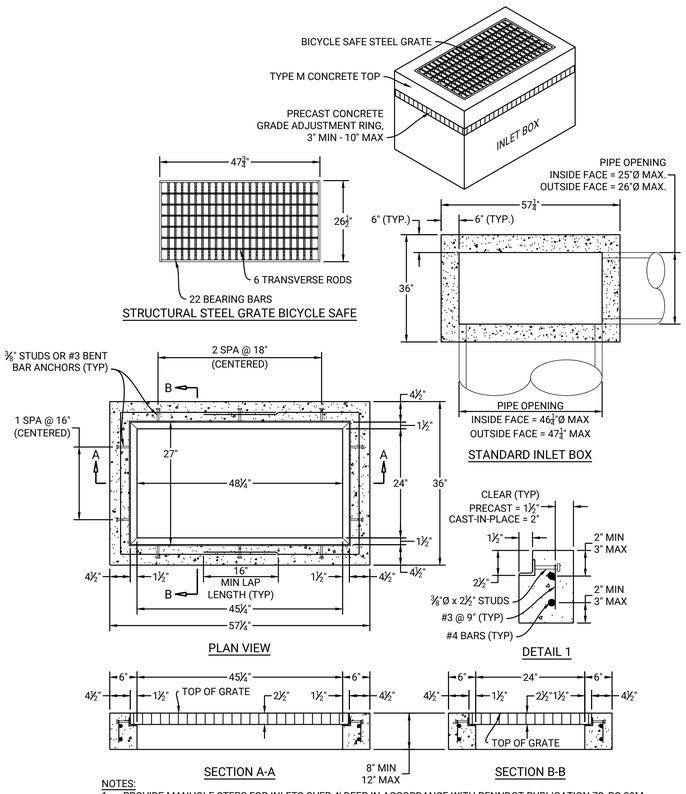
C1C 803



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



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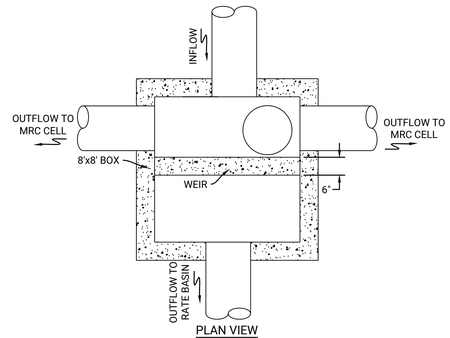
2. REFERENCE PENNDOT PUBLICATION 72, RC-45M, FOR ADDITIONAL DETAILS ON THE INLET FRAME AND GRATE AND PRECAST CONCRETE GRADE ADJUSTMENT RINGS.
3. REFERENCE PENNDOT PUBLICATION 72, RC-46M, FOR ADDITIONAL DETAILS ON THE STANDARD INLET BOX.

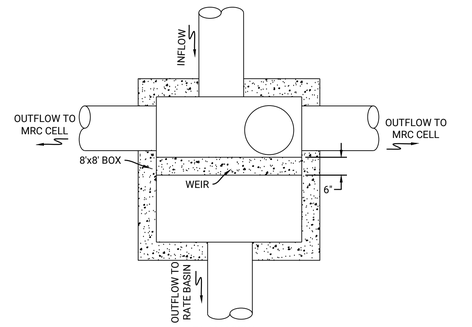
STANDARD INLET BOX - TYPE M CONCRETE TOP

NOT TO SCALE



BASIN Z1 FLOW SPLITTER STRUCTURE [FS-Z1-1.1]

NOT TO SCALE



BASIN Z2 FLOW SPLITTER STRUCTURE [FS-Z2-1.1]

NOT TO SCALE

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

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PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

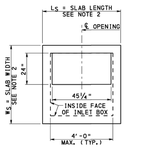
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

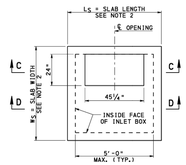
CIVIL DETAILS

SHEET NO.

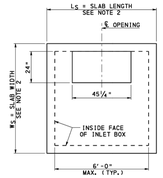
C1C 804



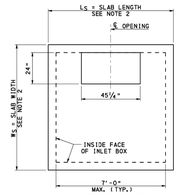
FOR TYPE 4 INLET BOX



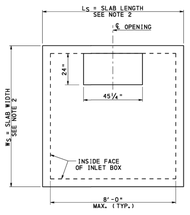
FOR TYPE 5 INLET BOX



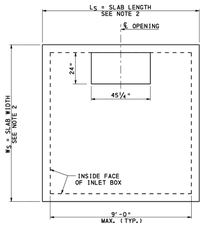
FOR TYPE 6 INLET BOX



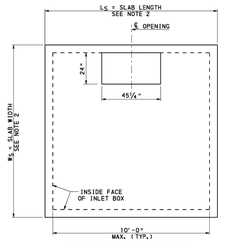
FOR TYPE 7 INLET BOX



FOR TYPE 8 INLET BOX



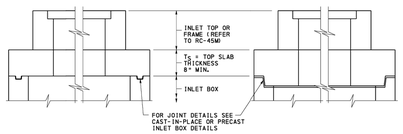
FOR TYPE 9 INLET BOX



FOR TYPE 10 INLET BOX

PLAN - TOP SLABS

(WITH STANDARD OPENING)



TOP SLAB WITH KEYED JOINT

TOP SLAB WITH SHIPLAP JOINT (PRECAST ONLY)

SECTION C-C

(TYPICAL)

NOTE: GRADE ADJUSTMENT RINGS NOT SHOWN

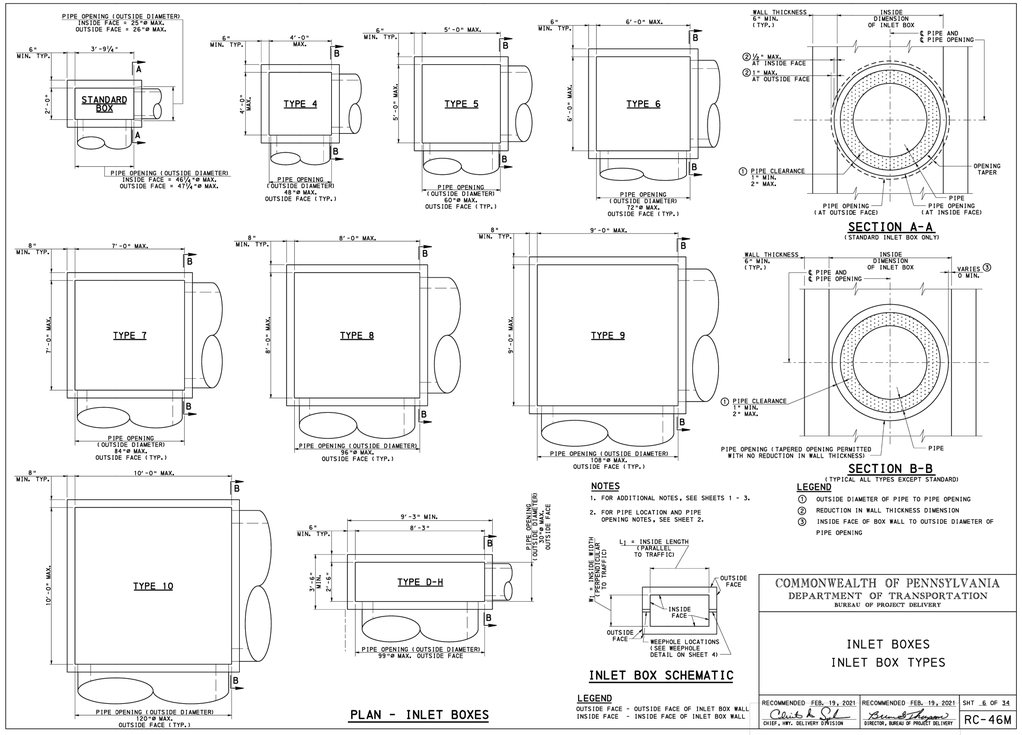
NOTES:

1. FOR ADDITIONAL NOTES, SEE SHEETS 1 - 3.
2. OUT TO OUT DIMENSIONS OF TOP SLABS TO MATCH SIZE OF INLET BOX.
3. SET EDGE OF OPENING AT INSIDE FACE OF INLET BOX FOR ACCESS, IF POSSIBLE.
4. FOR SECTION D-D AND REINFORCEMENT REQUIREMENTS, SEE SHEET 8.
5. FOR ADDITIONAL REINFORCEMENT AROUND OPENINGS, SEE SHEETS 9 & 10.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

INLET BOXES
TOP SLABS - 1

RECOMMENDED FEB. 19, 2021	RECOMMENDED FEB. 19, 2021	SHT 7 OF 34
CHIEF, HWY. DELIVERY DIVISION	DIRECTOR, BUREAU OF PROJECT DELIVERY	RC-46M



PLAN - INLET BOXES

NOTES

1. FOR ADDITIONAL NOTES, SEE SHEETS 1 - 3.
2. FOR PIPE LOCATION AND PIPE OPENING NOTES, SEE SHEET 2.

INLET BOX SCHEMATIC

LEGEND

OUTSIDE FACE - OUTSIDE FACE OF INLET BOX WALL
INSIDE FACE - INSIDE FACE OF INLET BOX WALL

SECTION A-A

(STANDARD INLET BOX ONLY)

SECTION B-B

(TYPICAL ALL TYPES EXCEPT STANDARD)

LEGEND

① OUTSIDE DIAMETER OF PIPE TO PIPE OPENING
② REDUCTION IN WALL THICKNESS DIMENSION
③ INSIDE FACE OF BOX WALL TO OUTSIDE DIAMETER OF PIPE OPENING

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

INLET BOXES
INLET BOX TYPES

RECOMMENDED FEB. 19, 2021	RECOMMENDED FEB. 19, 2021	SHT 8 OF 34
CHIEF, HWY. DELIVERY DIVISION	DIRECTOR, BUREAU OF PROJECT DELIVERY	RC-46M

REV	DATE	COMMENTS	BY	CHKD
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ISSUE / REVISIONS

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DATE:	APRIL 17, 2026
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DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

CIVIL DETAILS

SHEET NO.

C1C 805

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 BASINS Z1 AND Z2 - SEE PLAN SHEET C1C 301 TO C1C 304 AND DETAIL SHEET C1C 801 TO C1C 805

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 C001 AND C002.

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

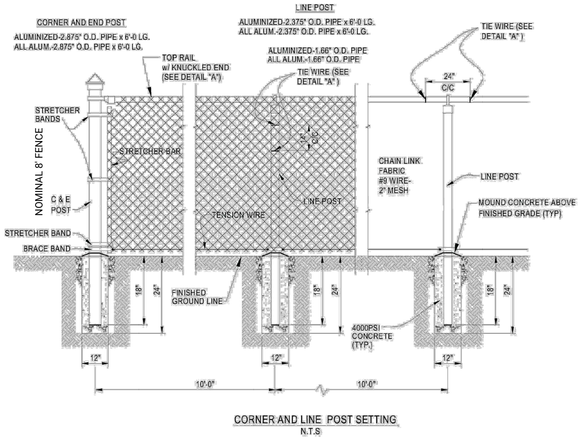
AN OPERATION AND MAINTENANCE AGREEMENT MUST BE EXECUTED BETWEEN THE RESPONSIBLE PARTY (LISTED ABOVE) AND MIDDLESEX TOWNSHIP CONSISTENT WITH THE EXAMPLE AGREEMENT FOUND IN APPENDIX B OF THE MIDDLESEX TOWNSHIP STORMWATER MANAGEMENT ORDINANCE 6-2011 AS AMENDED.

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

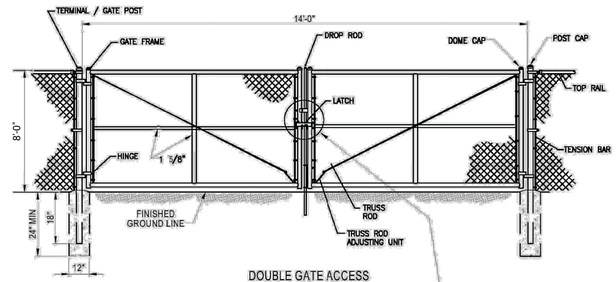
UPON COMPLETION OF CONSTRUCTION OF ALL BMPS, RECORD (AS-BUILT) DRAWINGS SHALL BE PREPARED AS REQUIRED BY SUBDIVISION AND LAND DEVELOPMENT ORDINANCE SECTION 1409 ORDINANCE 8-2017) AND STORMWATER MANAGEMENT ORDINANCE ARTICLE V SECTION 501.C (ORD. 6-2011 AS AMENDED) WHICH MUST INCLUDE BMPS IN THEIR AS-BUILT 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.



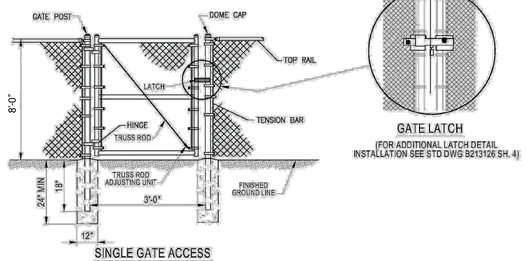
CORNER AND LINE POST SETTING
N.T.S



DETAIL "A"
KNUCKLED FENCE TOP AND TIE DOWN



DOUBLE GATE ACCESS



GATE LATCH
(FOR ADDITIONAL LATCH DETAIL INSTALLATION SEE STD DWG 9213126 SH. 4)

SINGLE GATE ACCESS

NOTES:
1. ADD MESH PRIVACY SCREEN TO FENCES.

CHAIN-LINK FENCE AND GATE DETAILS

NOT TO SCALE

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1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

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DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

OPERATIONS & MAINTENANCE PLAN

SHEET NO.

C1C 806

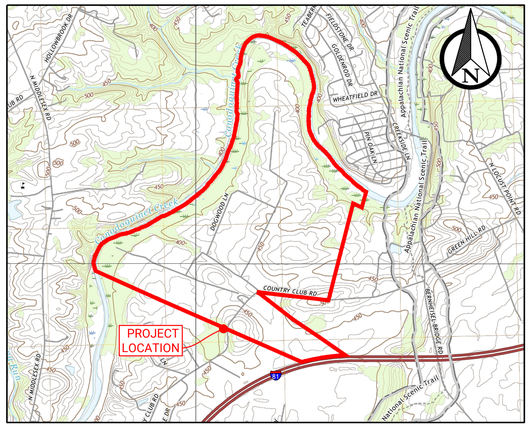
EROSION AND SEDIMENTATION CONTROL PLAN
FOR
PENNSYLVANIA DIGITAL 1 (PAX-1) - PHASE 1C
MIDDLESEX TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

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 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

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:
   PROJECT BOLT 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 CAMPUSES, A PPL SUBSTATION, 3 CUSTOMER SUBSTATIONS, A NEW PROPOSED PRIVATE STREET WITH PUBLIC ACCESS ROAD "PA DATA DRIVE" IS PROPOSED.
   THE INTENT OF THIS PLAN IS TO SHARE THE BROADER VISION FOR THE FULL BUILD OUT OF THE PROJECT. THIS PLAN PROVIDES CONCEPTUAL DETAIL ON ACCESS ROADS, UTILITY INFRASTRUCTURE, PRELIMINARY STORMWATER LOCATION AND SIZING AS WELL AS OVERALL CAMPUS CONFIGURATIONS, AND PRELIMINARY LOT CONFIGURATIONS. THIS SET ALSO DEMONSTRATES THE PHASES OF PERMITTING AND CONSTRUCTION WHICH ARE ANTICIPATED FOR ADVANCEMENT OF THE DEVELOPMENT.
5. SOURCE OF TITLE:
   * CARLISLE DEVELOPMENT PARTNERS, LLC
   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.
9. NO PERMANENT LIGHTING IS PROPOSED AS PART OF THIS PLAN.

PAGE NUMBER

1
2
3
4
5-8
9-10
11-12

REV	DATE	COMMENTS	BY	CHKD
2	05/22/2026	PHASE 1C E&S PLANS	CDB	DAH
1	04/16/2026	PHASE 1C E&S PLANS	CDB	DAH

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1015 MUMMA ROAD
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PHONE: 888.987.1993
www.liviccivil.com

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PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

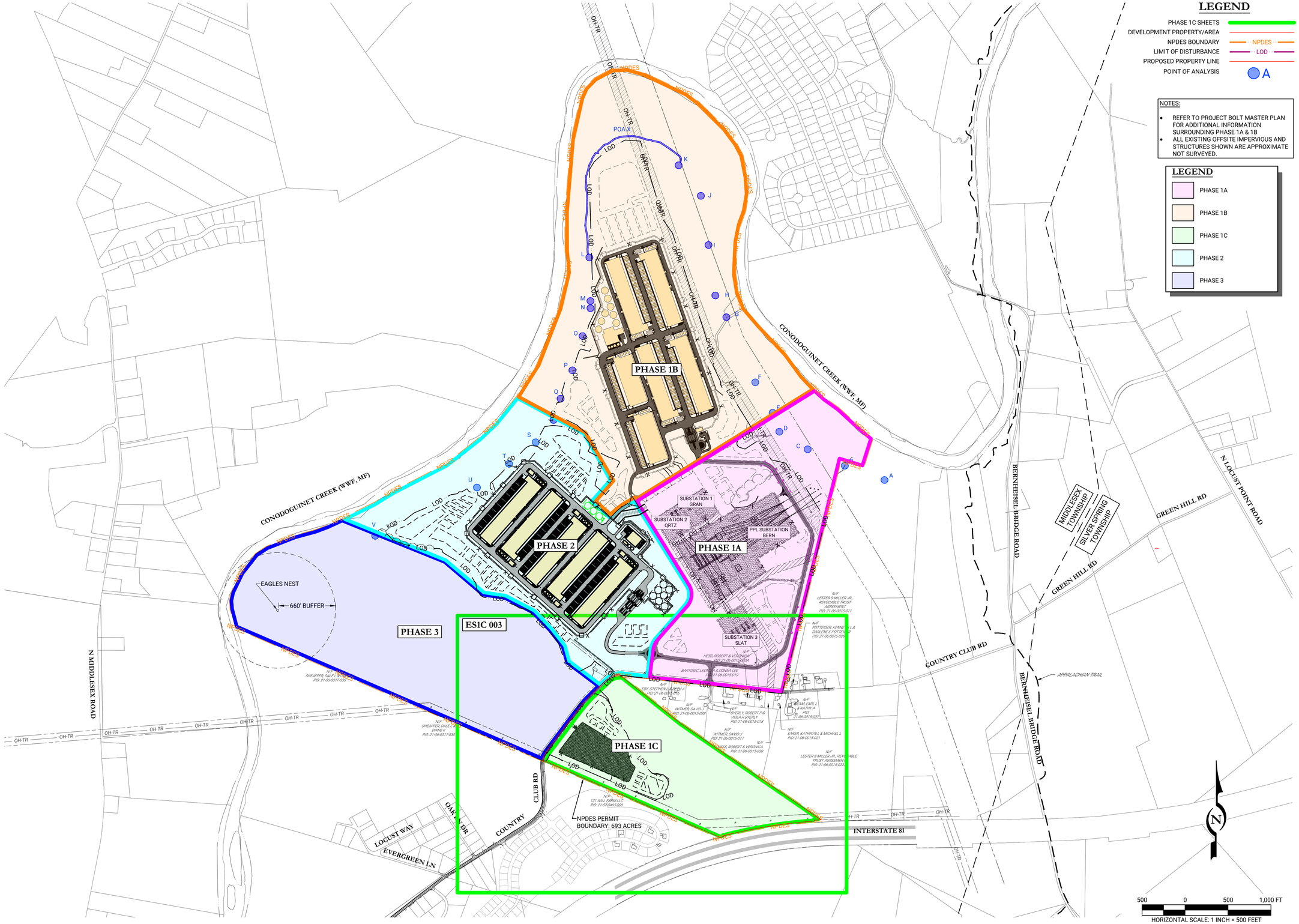
PROJECT
PENNSYLVANIA DIGITAL 1 (PAX-1)

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.
ES1C 001



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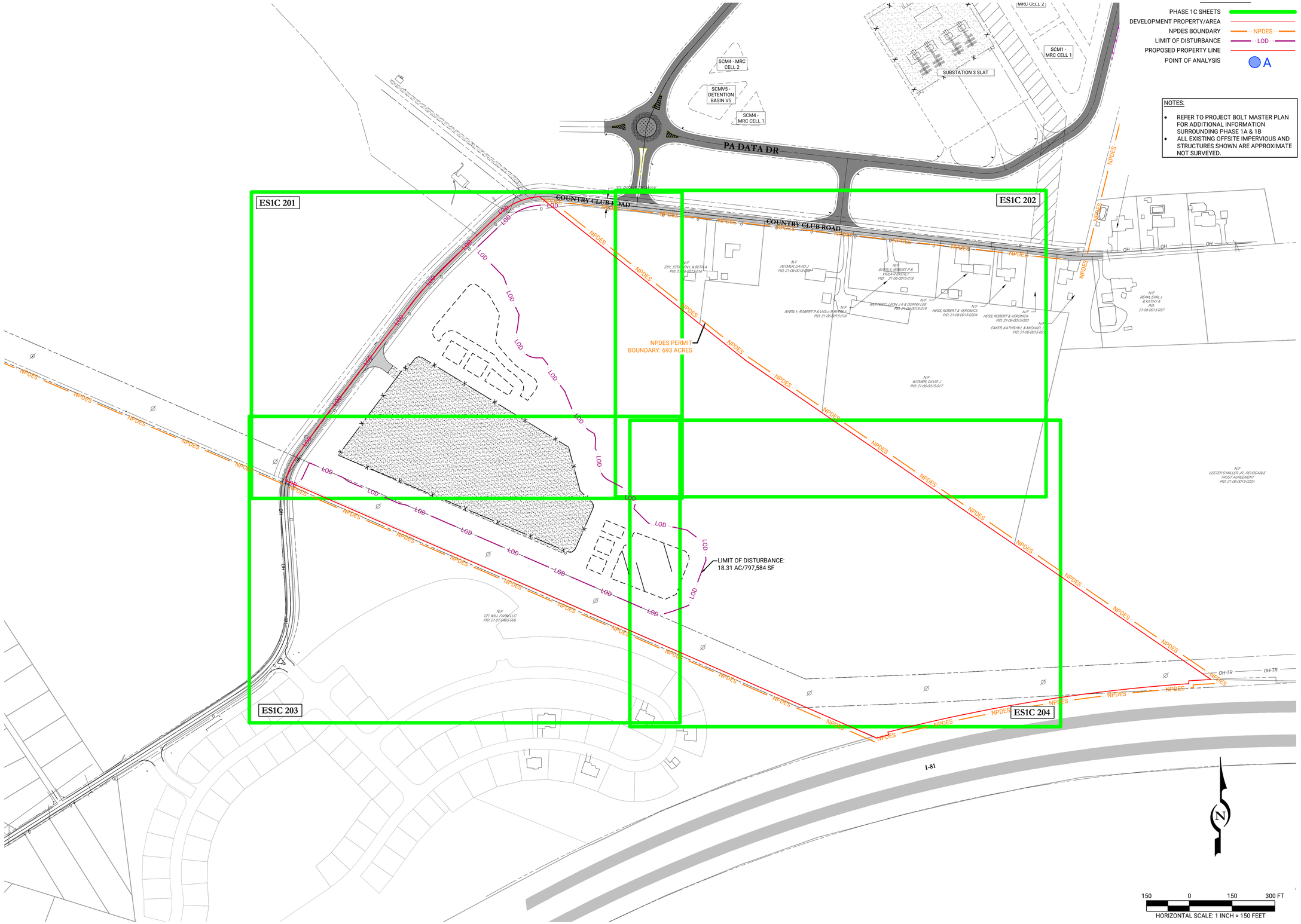
SHEET TITLE

PHASING PLAN

SHEET NO.

ES1C 002



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SHEET TITLE

PERMIT BOUNDARY & KEYMAP

SHEET NO.

ES1C 003



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SHEET TITLE

EXISTING CONDITIONS AND DEMO PLAN

SHEET NO.

ES1C 101

LEGEND

- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- GRAVEL
- FENCE LINE
- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY SETBACK
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- ACOE JURISDICTIONAL WETLANDS
- LIMIT OF DISTURBANCE
- NPDES BOUNDARY
- COMPOST FILTER SOCK
- EROSION CONTROL MATTING
- EP ANALYSIS FLOWPATH
- SOIL LINE

SYMBOLS

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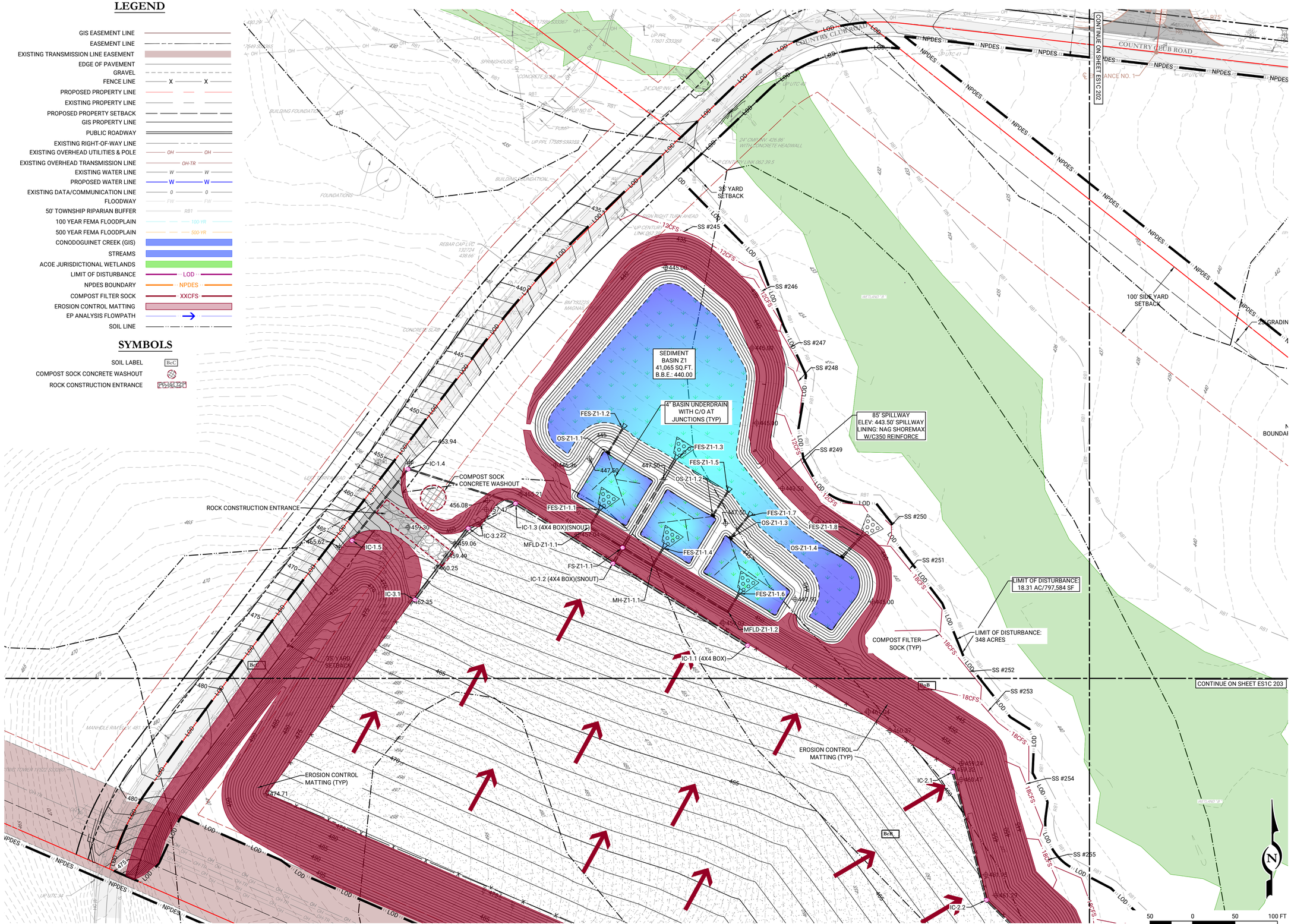
- COMPOST SOCK CONCRETE WASHOUT
- ROCK CONSTRUCTION ENTRANCE



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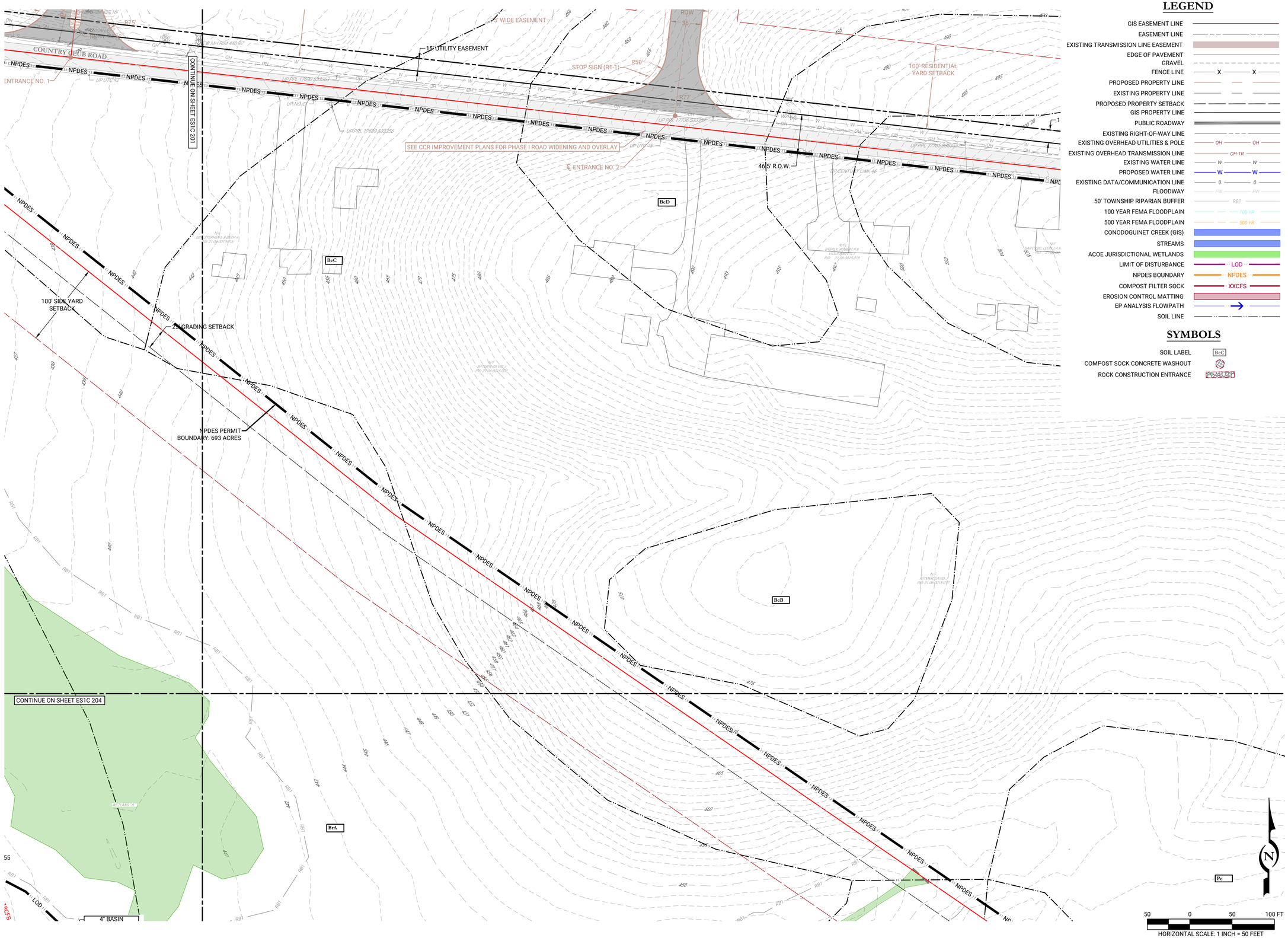

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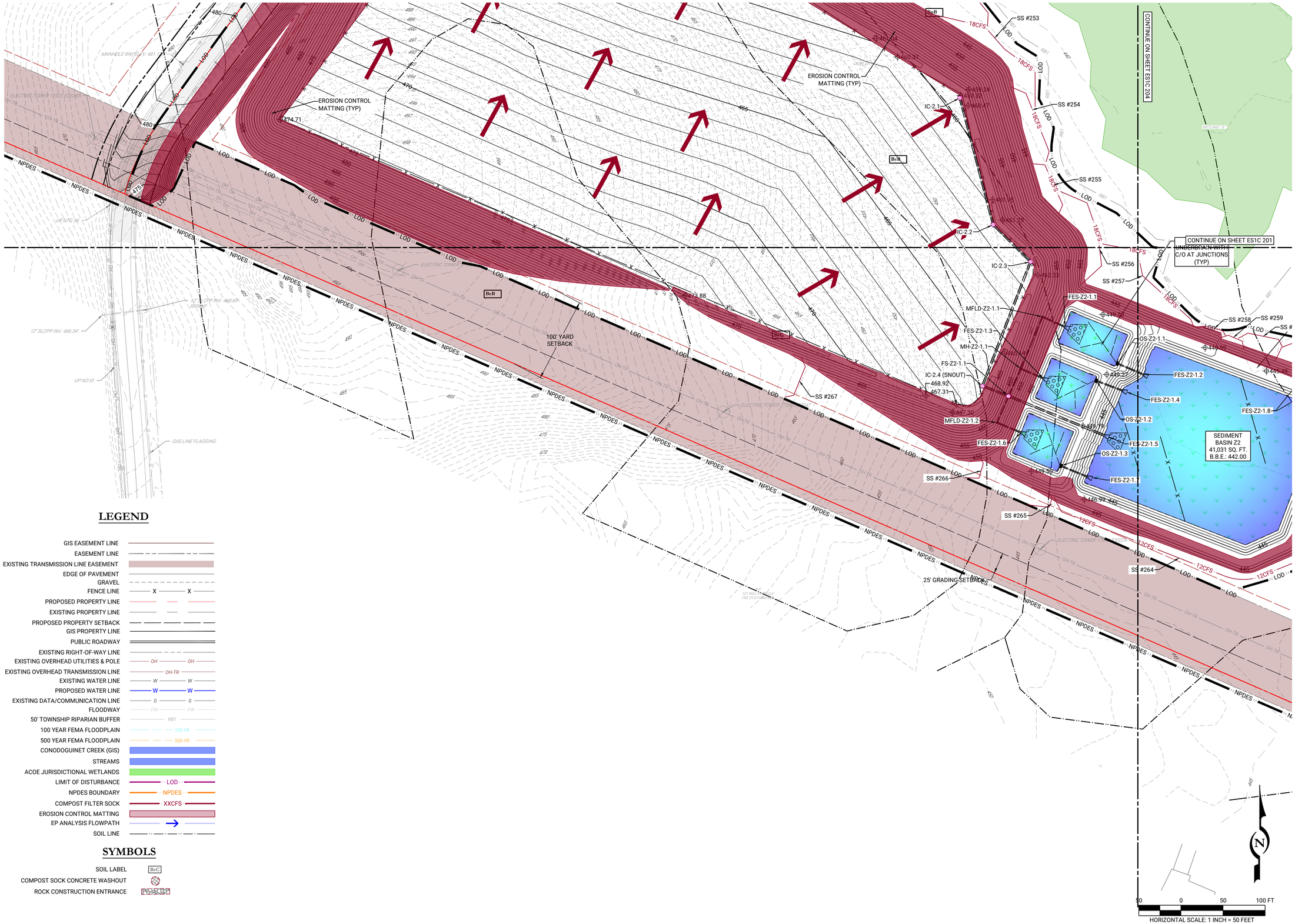

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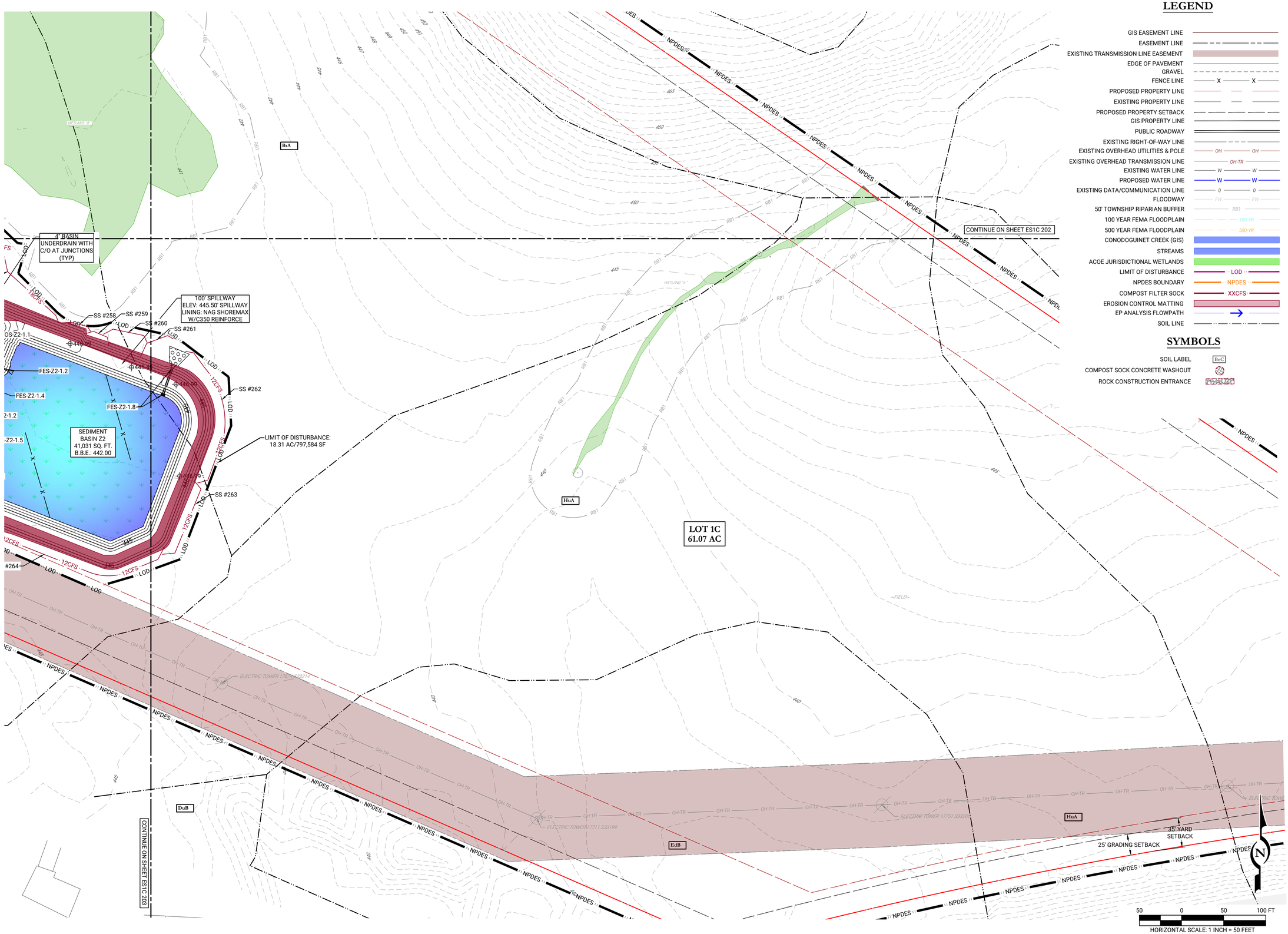

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SHEET TITLE

E&S PLANS

SHEET NO.

ES1C 204

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 40 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 (>0.25 INCHES OF PRECIPITATION WITHIN 24 HOURS OF A SNOWMELT SUFFICIENT TO CAUSE A DISCHARGE), 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
- VEGETATED CHANNEL

GENERAL MAINTENANCE:

- E&S BMPs SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT (> 0.25 INCHES). 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 PHASE 1C, THERMAL IMPACTS HAVE BEEN REDUCED BY DIRECTING ALL EARTH DISTURBANCE RUNOFF TO THE PROPOSED COMPOST FILTER SOCK AND SEDIMENT BASINS. THE SEDIMENT BASINS WILL ALLOW THE RUNOFF TO COOL DUE TO BEING DETAINED WITHIN THE SEDIMENT BASINS BEFORE BEING DISCHARGED OFFSITE. THE COMPOST FILTER SOCKS WILL SLOW THE WATER AND COLLECT SEDIMENT IN THESE VEGETATED AREAS PRIOR TO DISCHARGING OFFSITE.

RIPARIAN FOREST BUFFERS

NO PADEP RIPARIAN BUFFERS ARE LOCATED WITHIN THE PROJECT LOCATION.

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 MANAGED RELEASE CONCEPT (MRC) AND INFILTRATION BASINS ON THE PROJECT SITE. THE BASINS 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 BASINS.

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 CONODOGUINET CREEK (WWF-MF). THE RUNOFF PEAK RATES SHOWN HAVE BEEN REDUCED, BENEFITING THE DOWNSTREAM AREAS.

THE USE OF HEAVY EQUIPMENT SHOULD BE AVOIDED ON AREAS THAT WILL BE UTILIZED FOR INFILTRATION. IN ADDITION, EXCESSIVE COMPACTION DURING FINAL GRADING OPERATIONS SHOULD BE MINIMIZED. IN THE AREA OF THE INFILTRATION AND MRC BASINS, 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.

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 660 FEET FROM THE NEST, WITH ALL WORK, EXCEPT GRADING OF ONE STORMWATER BASIN, OCCURRING OUTSIDE OF THE 330-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.

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

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 ~18.31 ACRE PROJECT AREA FOR PHASE 1C GENERALLY SLOPES FROM THE SOUTH TO THE NORTH.

THE EXISTING PROJECT SITE IS BOUNDED TO THE NORTH BY LAND NOW OR FORMERLY OWNED BY STEPHEN AND BETH EBY, TO THE SOUTH BY LAND NOW OR FORMERLY OWNED BY 121 WILL FARM, LLC, TO THE EAST BY LAND NOW OR FORMERLY OWNED BY LESTER S. MILLER JR., REVOCABLE TRUST AGREEMENT AND TO THE WEST BY LAND OWNED BY CARLISLE DEVELOPMENT PARTNERS LLC. EXISTING CONTOURS AND LAND FEATURES, AS WELL AS THE PROPOSED FEATURES, ARE SHOWN ON THE PLAN DRAWINGS.

REV	DATE	COMMENTS	BY
2	05/22/2026	PHASE 1C E&S PLANS	CDB
1	04/16/2026	PHASE 1C E&S PLANS	CDB

ISSUE / REVISIONS

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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:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

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

SHEET TITLE

NOTES

SHEET NO.

ES1C 301

STANDARD EROSION & SEDIMENT CONTROL NOTES

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THIS SITE.
11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS.
14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM THE PROJECT SITE ONTO A PUBLIC ROADWAY. VEHICLES AND EQUIPMENT MAY ONLY ENTER AND EXIT THE CONSTRUCTION SITE VIA A STABILIZED ROCK CONSTRUCTION ENTRANCE.
15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT (>0.25 INCHES) AND ON A WEEKLY BASIS. THE OPERATOR WILL MAINTAIN AND MAKE AVAILABLE TO THE COUNTY CONSERVATION DISTRICT COMPLETE, WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
16. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
18. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.
19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
26. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
27. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR OTHER PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
28. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR MOTHER MOVEMENTS.
29. EROSION AND SEDIMENT BMPS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
32. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.

STANDARD EROSION & SEDIMENT CONTROL NOTES [cont'd]

33. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO $10,000 PER DAY IN CIVIL PENALTIES, UP TO $10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO $25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
34. IN THE EVENT OF SINKHOLE DISCOVERY A PROFESSIONAL GEOLOGIST OR ENGINEER WILL BE CONTACTED CONCERNING MITIGATION. ADDITIONALLY, THE COUNTY CONSERVATION DISTRICT WILL BE MADE AWARE OF THE SINKHOLE DISCOVERY IMMEDIATELY.
35. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.
36. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.
37. THE E&S CONTROL PLAN MAPPING MUST DISPLAY A PA ONE CALL SYSTEM INCORPORATED SYMBOL INCLUDING THE SITE IDENTIFICATION NUMBER. (THIS IS A NUMBERED SYMBOL NOT A NOTE.)
38. AT STREAM CROSSINGS, 50' BUFFER AREAS SHOULD BE MAINTAINED. ON BUFFERS, CLEARING, SOD DISTURBANCES, EXCAVATION, AND EQUIPMENT TRAFFIC SHOULD BE MINIMIZED. ACTIVITIES SUCH AS STACKING LOGS, BURNING CLEARED BRUSH, DISCHARGING RAINWATER FROM TRENCHES, WELDING PIPE SECTIONS, REFUELING AND MAINTAINING EQUIPMENT SHOULD BE ACCOMPLISHED OUTSIDE OF BUFFERS.
39. ALL WETLANDS MUST BE DELINEATED AND PROTECTED WITH ORANGE SAFETY FENCE PRIOR TO ANY EARTHMOVING ACTIVITY.
40. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.
41. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
42. ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.
43. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
44. CHANNELS HAVING RIPRAP, RENO MATTRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING.
45. SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS.
46. SEDIMENT BASINS SHALL BE PROTECTED FROM UNAUTHORIZED ACTS BY THIRD PARTIES.
47. BAFFLES MUST BE INSTALLED TO ALLOW BASIN MAINTENANCE AND CLEAN OUT.
48. ANY DAMAGE THAT OCCURS IN WHOLE OR IN PART AS A RESULT OF BASIN OR TRAP DISCHARGE SHALL BE IMMEDIATELY REPAIRED BY THE PERMITTEE IN A PERMANENT MANNER SATISFACTORY TO THE MUNICIPALITY, LOCAL CONSERVATION DISTRICT, AND THE OWNER OF THE DAMAGED PROPERTY.
49. UPON REQUEST, THE APPLICANT OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD DRAWING) FOR ANY SEDIMENT BASIN OR TRAP TO THE MUNICIPAL INSPECTOR, LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
50. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER, WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
51. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM EIGHT (8) LAYERED LIFTS AT NINETY FIVE PERCENT (95%) MODIFIED PROCTOR DENSITY.
52. 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, 0 TO 3 PERCENT SLOPES
    - EDOM SILTY CLAY LOAM (EdC), 8 TO 15 PERCENT SLOPES
    - MONONGAHELA SILT LOAM (MnB), 3 TO 8 PERCENT SLOPES
    - WEIKERT VERY CHANNERY SILT LOAM (WeD), 15 TO 25 PERCENT SLOPES
53. THE PROJECT SITE DRAINS INTO THE CONODOGUINET CREEK (WWF, MF) WHICH HAS BEEN CLASSIFIED BY TITLE 25, CHAPTER 93, OF THE PENNSYLVANIA CODE.
54. STREAM CLASSIFICATION RESTRICTIONS:
    A. FOR STOCKED TROUT STREAMS: NO IN-STREAM ACTIVITY WITHIN 50 FEET OF THE STREAM OTHER THAN BORING SHALL OCCUR BETWEEN MARCH 1 AND JUNE 15.
    B. FOR WILD TROUT STREAMS: NO IN-STREAM ACTIVITY WITHIN 50 FEET OF THE STREAM OTHER THAN BORING SHALL OCCUR BETWEEN OCTOBER 1 AND DECEMBER 31.

EROSION & SEDIMENT CONTROL PLANNING & DESIGN

THE EROSION & SEDIMENT CONTROL PLAN HAS BEEN DEVELOPED AND INTENDED TO MINIMIZE THE EXTENT AND DURATION OF THE EARTH DISTURBANCE OCCURRING ON THE PROJECT SITE. IN ORDER TO MINIMIZE THE DURATION, THE SITE-SPECIFIC CONSTRUCTION SEQUENCE SHOULD BE FOLLOWED AS APPROVED BY THE COUNTY CONSERVATION DISTRICT. THE EXTENT OF DISTURBANCE WAS ALSO MINIMIZED BY THE PURCHASE OF AN APPROPRIATELY SIZED LOT FOR THE PROPOSED USE. GRADING HAS ALSO BEEN REDUCED TO THE STEEPEST SLOPES, WHILE STILL BEING DEEMED MOWABLE, TO FURTHER MINIMIZE THE LIMIT OF DISTURBANCE. EROSION CONTROL MATTING HAS BEEN ADDED WHERE REQUIRED, WHILE OTHER PORTIONS OF THE SITE WILL BE SODDED (SEE PLAN FOR LOCATIONS). THE PLAN HAS BEEN DEVELOPED WITH THE BEST INTENTIONS TO UTILIZE EXISTING DOWNSTREAM DRAINAGE PATHS AND FEATURES.

ALL RUNOFF FROM THE PROJECT SITE WILL BE FILTERED WITH COMPOST FILTER SOCK.

THE USE OF HEAVY EQUIPMENT SHOULD BE AVOIDED ON AREAS THAT WILL BE UTILIZED FOR INFILTRATION. IN THESE AREAS, THE BUCKET TEETH SHOULD BE UTILIZED FOR THE FINAL SIX (6") INCHES OF EXCAVATION TO ELIMINATE OVER COMPACTING AND SEALING THE SUBGRADE. EXCESSIVE COMPACTION SHOULD BE AVOIDED DURING THE PLACEMENT OF TOPSOIL AND SEEDING AND MULCHING OPERATIONS TO HELP ENSURE INFILTRATION THROUGHOUT THE ENTIRE PROJECT SITE.

REV	DATE	COMMENTS	BY	CHKD
2	05/22/2026	PHASE 1C E&S PLANS	CDB	DAH
1	04/16/2026	PHASE 1C E&S PLANS	CDB	DAH

ISSUE / REVISIONS

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PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

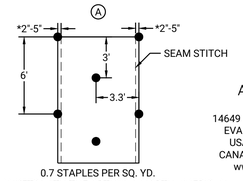
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

NOTES

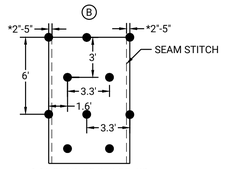
SHEET NO.

ES1C 302

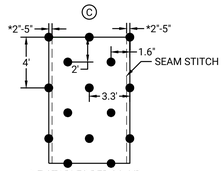


0.7 STAPLES PER SQ. YD.
FOR BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES/STAKES THROUGH EACH OF THE BLUE COLORED DOTS

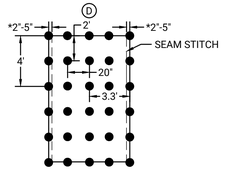
NORTH AMERICAN GREEN
14649 HIGHWAY 41 NORTH
EVANSVILLE, IN 47725
USA 1-800-772-2040
CANADA 1-800-448-2040
www.nagreen.com



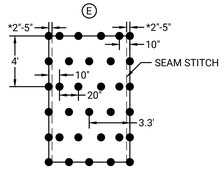
1.15 STAPLES PER SQ. YD.
FOR BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES/STAKES THROUGH EACH OF THE RED COLORED DOTS



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

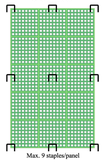


3.4 STAPLES PER SQ. YD.
FOR BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES/STAKES THROUGH EACH OF THE WHITE COLORED DOTS

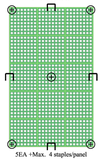


3.75 STAPLES PER SQ. YD.
FOR BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES/STAKES THROUGH EACH OF THE YELLOW COLORED DOTS

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

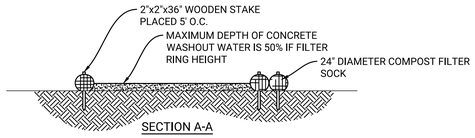


ANCHOR PATTERNS FOR USE WITH WIRE/REBAR STAPLES

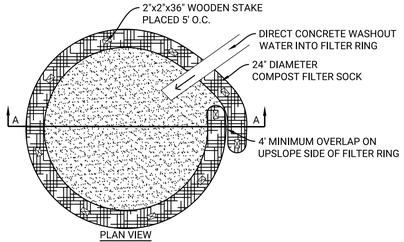


ANCHOR PATTERNS FOR USE WITH COMBINATION OF EARTH ANCHORS AND STAPLES

STAPLE PATTERN GUIDE
NOT TO SCALE



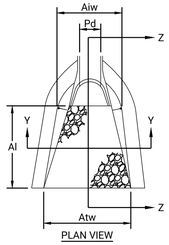
SECTION A-A



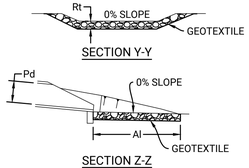
PLAN VIEW

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



PLAN VIEW



SECTION Z-Z

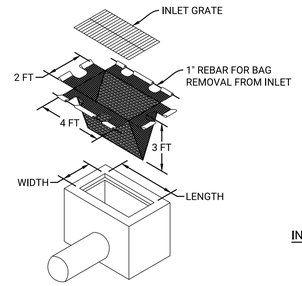
SECTION Y-Y

OUTLET No.	PIPE Ø Pd (IN)	RIPRAP SIZE R-?	RIPRAP THICK Rt (IN)	APRON LENGTH Al (FT)	APRON INITIAL WIDTH Aiw (FT)	APRON TERMINAL WIDTH Atw (FT)
FES Z1-1.1	18	R-3	9	8	4.5	12.5
FES Z1-1.3	30	R-4	18	16	7.5	23.5
FES Z1-1.4	18	R-3	9	8	4.5	12.5
FES Z1-1.6	18	R-3	9	8	4.5	12.5
FES Z1-1.8	24	R-4	18	12	6	18
FES Z2-1.1	18	R-3	9	8	4.5	12.5
FES Z2-1.3	18	R-3	9	8	4.5	12.5
FES Z2-1.5	24	R-4	18	12	6	18
FES Z2-1.6	18	R-3	9	8	4.5	12.5
FES Z2-1.8	24	R-4	18	12	6	18

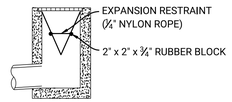
NOTES:
ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.

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

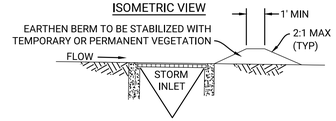
RIPRAP APRON AT PIPE OUTLET W/FLARED END SECTION STANDARD CONSTRUCTION DETAIL 9-1
NOT TO SCALE



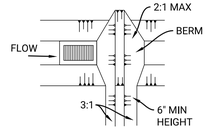
ISOMETRIC VIEW



INSTALLATION DETAIL



SECTION VIEW



PLAN VIEW

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

REV	DATE	COMMENTS	BY	CHKD
2	05/22/2026	PHASE 1C E&S PLANS	CDB	DAH
1	04/16/2026	PHASE 1C E&S PLANS	CDB	DAH

ISSUE / REVISIONS

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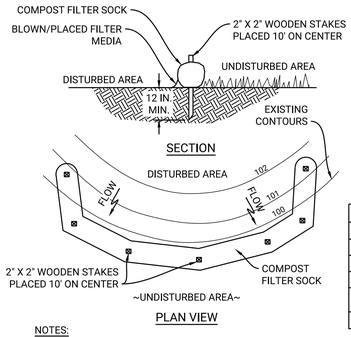
PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT
PENNSYLVANIA DIGITAL 1 (PAX-1)
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.
ES1C 303



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.

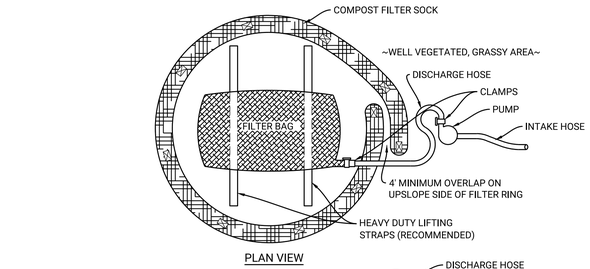
BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

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.

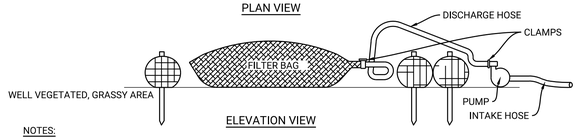
TABLE 4.1 COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS					
MATERIAL TYPE	3 mil HDPE	5 mil HDPE	5 mil HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	BIO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK 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 % ORGINAL 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



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.

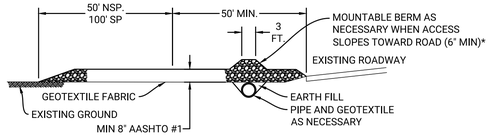
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

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.

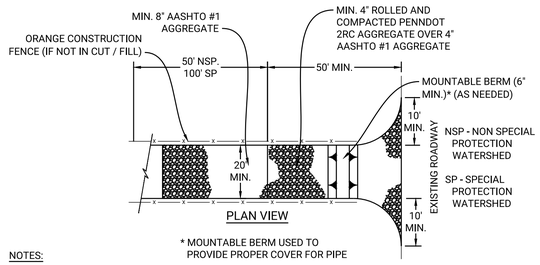
FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

PUMPED WATER FILTER BAG (SCD #3-16)

NOT TO SCALE



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.

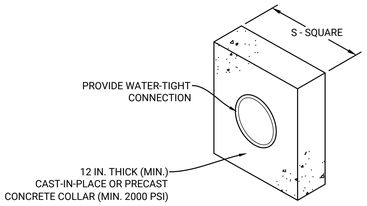
RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

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



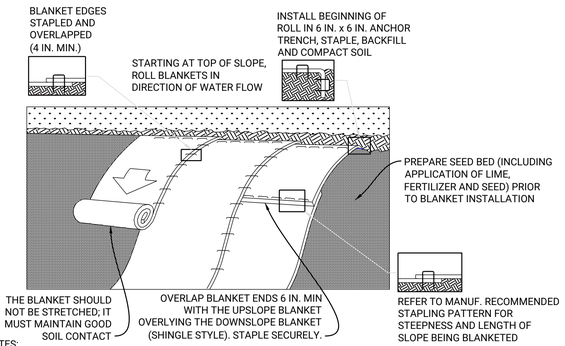
BASIN OR TRAP NO.	PIPE SIZE (IN)	S (IN)	NO. OF COLLARS
Z1	24	39	2
Z2	24	42	1

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

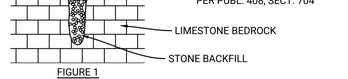


FIGURE 1

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.

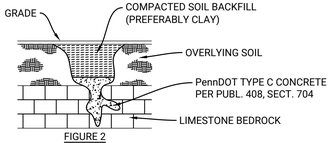


FIGURE 2

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

REV	DATE	COMMENTS	BY	CHKD
2	05/22/2026	PHASE 1C E&S PLANS	CDB	DAH
1	04/16/2026	PHASE 1C E&S PLANS	CDB	DAH

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.
© 2026 LIVIC CIVIL, LLC

PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)

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.

ES1C 303

PRELIMINARY LAND DEVELOPMENT PLAN
FOR
PENNSYLVANIA DIGITAL 1 (PAX-1) - PHASE 1C
MIDDLESEX TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

STORMWATER MANAGEMENT ACCESS EASEMENT

THE OWNERS HEREBY GRANT MIDDLESEX TOWNSHIP AN EASEMENT AND RIGHT TO ACCESS TO INSPECT ALL OF THE STORMWATER MANAGEMENT FACILITIES AND CONTROLS AT ANY REASONABLE TIME. THE OWNERS ALSO GRANT MIDDLESEX TOWNSHIP EASEMENTS FOR ALL NATURAL FEATURES AREAS. 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 PLAN APPROVAL CERTIFICATION

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

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

THIS PLAN WAS REVIEWED BY THE CUMBERLAND COUNTY PLANNING DEPARTMENT THIS ____ DAY OF _____, 20_____.

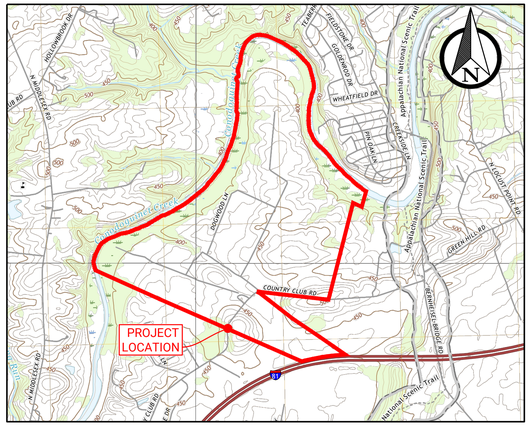
_____
DIRECTOR OF PLANNING

WETLAND CERTIFICATION

I, _____, 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, SHERMAN 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 LA-001068R

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. PE-078393

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

GEOLOGICAL 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 E. LINNELL, P.G. 004514

SEAL

CUMBERLAND COUNTY RECORDER OF DEEDS CERTIFICATE

RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS, IN AND FOR CUMBERLAND COUNTY COUNTY, PENNSYLVANIA, THIS ____ DAY OF _____, 20_____.

INSTRUMENT No. _____

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 TE PLAN AD ALL UTILITY COMPANIES HAVE BEEN CONTACTED.

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

REQUEST OF WAIVER

§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.

§707.A.10 - 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. THIS SECTION OF THE DEVELOPMENT DOES NOT CONTAIN ANY TYPE OF STREET.

§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.

STORMWATER MANAGEMENT ORDINANCE WAIVERS

§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.

PHASE 1C LAND DEVELOPMENT PLAN

SHEET NUMBER	SHEET TITLE	PAGE NUMBER
C1C 001	COVER	1
C1C 002	GENERAL NOTES	2
C1C 003-004	GENERAL INFORMATION	3 - 4
C1C 005	MASTERPLAN KEYMAP	5
C1C 006	PHASE 1C KEYMAP	6
C1C 007	OVERALL EXISTING CONDITIONS & DEMO PLAN	7
C1C 008	OVERALL SITE LAYOUT PLAN	8
C1C 009	OVERALL GRADING & STORMWATER PLAN	9
C1C 010	OVERALL EASEMENT PLAN	10
C1C 011	CLEAR SIGHT PLAN	11
C1C 101	EXISTING CONDITIONS & DEMO PLAN	12
C1C 201-204	SITE LAYOUT PLAN	13 - 16
C1C 301-304	GRADING & STORMWATER PLANS	17 - 20
C1C 501	PROFILE PLAN	21-24
C1C 601-604	LANDSCAPING PLAN	25- 28
C1C 801 -806	CIVIL DETAILS/OPERATIONS & MAINT. PLAN	29 - 34

PHASE 1C EROSION & SEDIMENT CONTROL PLAN

SHEET NUMBER	SHEET TITLE	PAGE NUMBER
ES1C 001	COVER SHEET	1
ES1C 002	PHASING PLAN	2
ES1C 003	PERMIT BOUNDARY & KEYMAP	3
ES1C 101	EXISTING CONDITIONS AND DEMO PLAN	4
ES1C 201-204	E&S PLANS	5-8
ES1C 301-302	NOTES	9-10
ES1C 303-304	DETAILS	11-12

PHASE 2 COUNTRY CLUB ROAD PLANS

SHEET NUMBER	SHEET TITLE
1	TITLE SHEET
2	INDEX MAP
3	RIGHT-OF-WAY BASELINE GEOMETRY
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SUPPLEMENTAL/ SUPPORTING PLANS

- MASTERPLAN FOR PAX-1
- PAX-1 FINAL SUBDIVISION PLAN
- PAX-1 PRELIMINARY SUBDIVISION PLAN
- PHASE II COUNTRY CLUB ROAD PLANS

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	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:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

COVER

SHEET NO.

C1C 001

CONSTRUCTION

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. NO LIGHTING, TEMPORARY OR OTHERWISE, SHALL BE USED AT NIGHT (DUSK UNTIL DAWN).

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. THIS PLAN IS NOT INTENDED TO REPRESENT ANY SUBSURFACE CONDITIONS, INCLUDING THE LOCATION OF BEDROCK OR OTHER GEOLOGICAL CONDITIONS.
6. 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.
7. 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.
8. 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.
9. THE APPLICANT SHALL COMPLY WITH ALL TOWNSHIP REGULATIONS IN EFFECT AT THE TIME OF THE FILING OF THE PLAN.
10. 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.
11. ALL EXISTING OFFSITE IMPERVIOUS AND STRUCTURES SHOWN ARE APPROXIMATE NOT SURVEYED.
12. 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.
13. 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.
14. 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 BEFORE THE TOWNSHIP BOARD OF SUPERVISORS FOR REVIEW AND COMMENT PRIOR TO ANY DECISIONS AS TO APPROVAL OR DENIAL OF SAID CHANGE.
15. THE OWNERS OF THESE LOTS, UPON NOTIFICATION BY MIDDLESEX TOWNSHIP, SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF SIDEWALKS TO TOWNSHIP SPECIFICATIONS WITHIN SIX (6) MONTHS OF THE DATE OF SUCH NOTIFICATION.
16. THE OWNERS OF THESE LOTS, UPON NOTIFICATION BY MIDDLESEX TOWNSHIP, SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF CONCRETE CURBS TO TOWNSHIP SPECIFICATION WITHIN SIX (6) MONTHS OF THE DATE OF SUCH NOTIFICATION.
17. THE PROPERTY OWNERS SHALL NOT OBSTRUCT OR ALTER THE FLOW, LOCATION, OR CARRYING CAPACITY OF A STREAM, CHANNEL, OR DRAINAGE SWALE TO THE DETRIMENT OF ANY OTHER PROPERTY OWNER, WHETHER UPSTREAM OR DOWNSTREAM.
18. AN AS-BUILT PLAN SHALL BE SUBMITTED TO THE TOWNSHIP IN ACCORDANCE WITH SECTION 406 OF THE MIDDLESEX TOWNSHIP STORMWATER MANAGEMENT ORDINANCE.
19. OUTSIDE PERMIT AND APPROVALS REQUIRED FOR FINAL PLAN APPROVAL AND CONSTRUCTION
    - NPDES MINOR MODIFICATION (PERMIT NO. PAC210079___) ISSUED BY CUMBERLAND COUNTY CONSERVATION DISTRICT AND PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
    - EROSION AND SEDIMENTATION CONTROL PLAN APPROVAL ISSUED BY CUMBERLAND COUNTY CONSERVATION DISTRICT
    - MAJOR SUBDIVISION PLAN APPROVAL PAX-1
    - PRELIMINARY LAND DEVELOPMENT APPROVAL PAX-1 PHASE 1C

REV	DATE	COMMENTS	BY
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB
			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:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

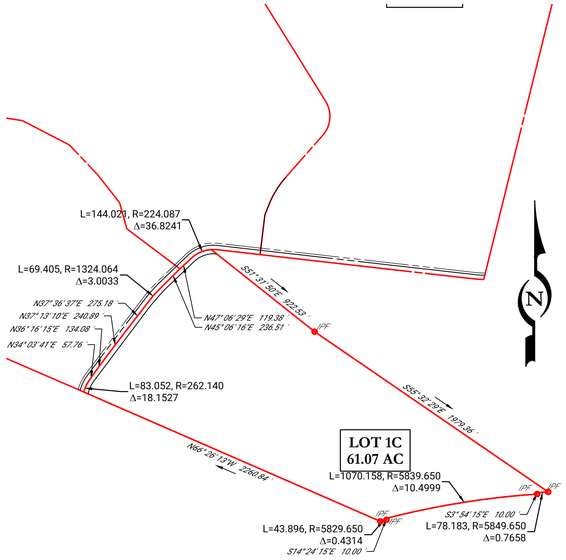
1660 INTERNATIONAL DRIVE MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

GENERAL NOTES

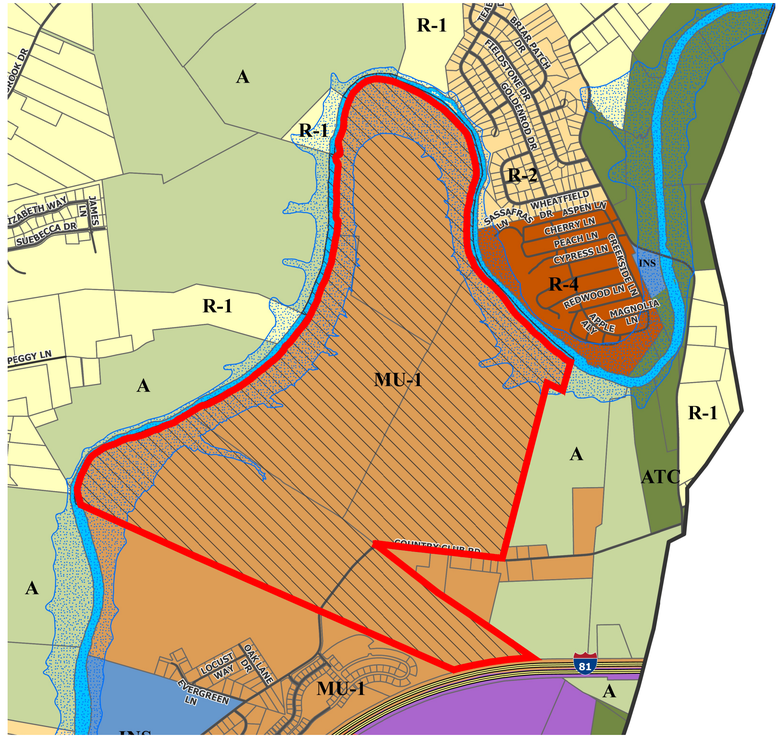
SHEET NO.

C1C 002



TRACT MAP

SCALE: 1 INCH - 500 FEET



ZONING MAP

NOT TO SCALE

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:
   PROJECT BOLT 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 CAMPUSES, A PPL SUBSTATION, 3 CUSTOMER SUBSTATIONS, A NEW PROPOSED PRIVATE STREET WITH PUBLIC ACCESS ROAD "PA DATA DRIVE" IS PROPOSED.
   THE INTENT OF THIS PLAN IS TO SHARE THE BROADER VISION FOR THE FULL BUILD OUT OF THE PROJECT. THIS PLAN PROVIDES CONCEPTUAL DETAIL ON ACCESS ROADS, UTILITY INFRASTRUCTURE, PRELIMINARY STORMWATER LOCATION AND SIZING AS WELL AS OVERALL CAMPUS CONFIGURATIONS, AND PRELIMINARY LOT CONFIGURATIONS. THIS SET ALSO DEMONSTRATES THE PHASES OF PERMITTING AND CONSTRUCTION WHICH ARE ANTICIPATED FOR ADVANCEMENT OF THE DEVELOPMENT.
5. SOURCE OF TITLE:
   * CARLISLE DEVELOPMENT PARTNERS, LLC
   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: 61.07
NUMBER OF EXISTING AND PROPOSED LOTS: 1
WATER SUPPLY: NO NEW USE IS PROPOSED
- ❖ EXISTING: PUBLIC
- ❖ PROPOSED: PUBLIC

SEWAGE DISPOSAL: NO NEW USE IS PROPOSED
- ❖ EXISTING: PUBLIC
- ❖ PROPOSED: PUBLIC

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 1C 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 NEIGHBORHOOD (MU-1) | DATA CENTER OVERLAY (DCO)
- ❖ FOR THIS PLAN AND PROJECT THE DATA CENTER OVERLAY DISTRICT SHALL GOVERN

PROPOSED USE: TEMPORARY CONSTRUCTION TRAILER SITE

	REQUIRED	PROPOSED
LOT REQUIREMENTS		
❖ MIN LOT SIZE	25 AC	61.07 AC
❖ MIN LOT WIDTH	200 FT	± 1,360 FT
❖ MAX LOT COVERAGE	70%	313,759 SF/7.20 AC/11.79%
❖ MAX IMPERVIOUS COVERAGE	70%	313,759 SF/7.20 AC/11.79%
❖ MAX BUILDING HEIGHT	75 FT	N/A
YARD SETBACKS		
❖ FRONT*	35 FT	85 FT
❖ SIDE* (EACH)	35 FT	155 FT
❖ REAR*	35 FT	1,143 FT
❖ * SETBACKS AND BUILDING MASSING ADJACENT TO RESIDENTIAL -	100 FT	N/A
PARKING SETBACKS		
❖ SETBACKS AND BUILDING MASSING ADJACENT TO RESIDENTIAL -	50 FT	N/A
LINEAR FEET OF NEW STREETS	N/A	0 FT

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

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		
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

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

ISSUE / REVISIONS

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PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

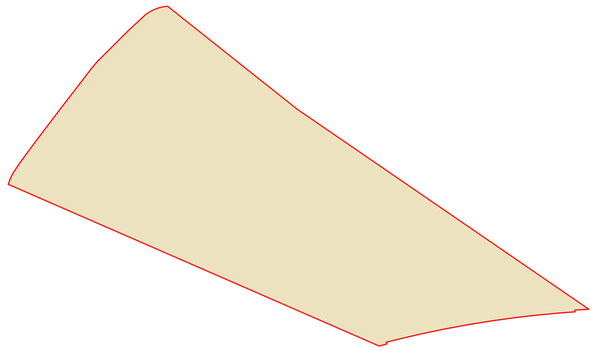
1660 INTERNATIONAL DRIVE MCLEAN, VA 22102 PHONE: (703) 234-3056

SHEET TITLE

GENERAL INFORMATION

SHEET NO.

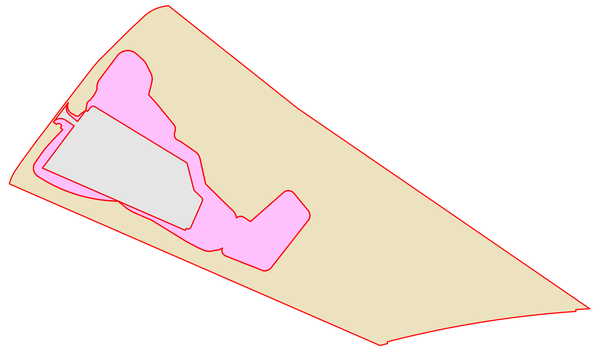
C1C 003



EXISTING CONDITIONS GROUND COVER MAP

SCALE: 1 INCH = 400 FEET

TOTAL ACREAGE: 61.07 ACRES
MEADOW: 61.07 ACRES 100%



PROPOSED CONDITIONS GROUND COVER MAP

SCALE: 1 INCH = 400 FEET

TOTAL ACREAGE: 61.07 ACRES
IMPERVIOUS: 7.20 ACRES 11.79%
MEADOW: 44.68 ACRES 73.16%
OPEN SPACE: 9.19 ACRES 15.05%

REV	DATE	COMMENTS	BY	CHKD
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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

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.

C1C 004

LEGEND

PHASE 1C SHEETS

DEVELOPMENT PROPERTY/AREA

NOTES:

- REFER TO PAX-1 MASTER PLAN FOR ADDITIONAL INFORMATION SURROUNDING PHASE 1C
- 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.

1,000' BUILDING FACADE SETBACK

PHASE 1B

PHASE 2

PHASE 3

PHASE 1A

PHASE 1C

SUBSTATION 1 GRAN

SUBSTATION 2 QRTZ

SUBSTATION 3 SLAT

PPL SUBSTATION BERN

SHEETS C1C 006, C1C 007, C1C 008, C1C 009, C1C 101

500 0 500 1,000 FT

HORIZONTAL SCALE: 1 INCH = 500 FEET

REV	DATE	COMMENTS	BY	CHKD
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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)

PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

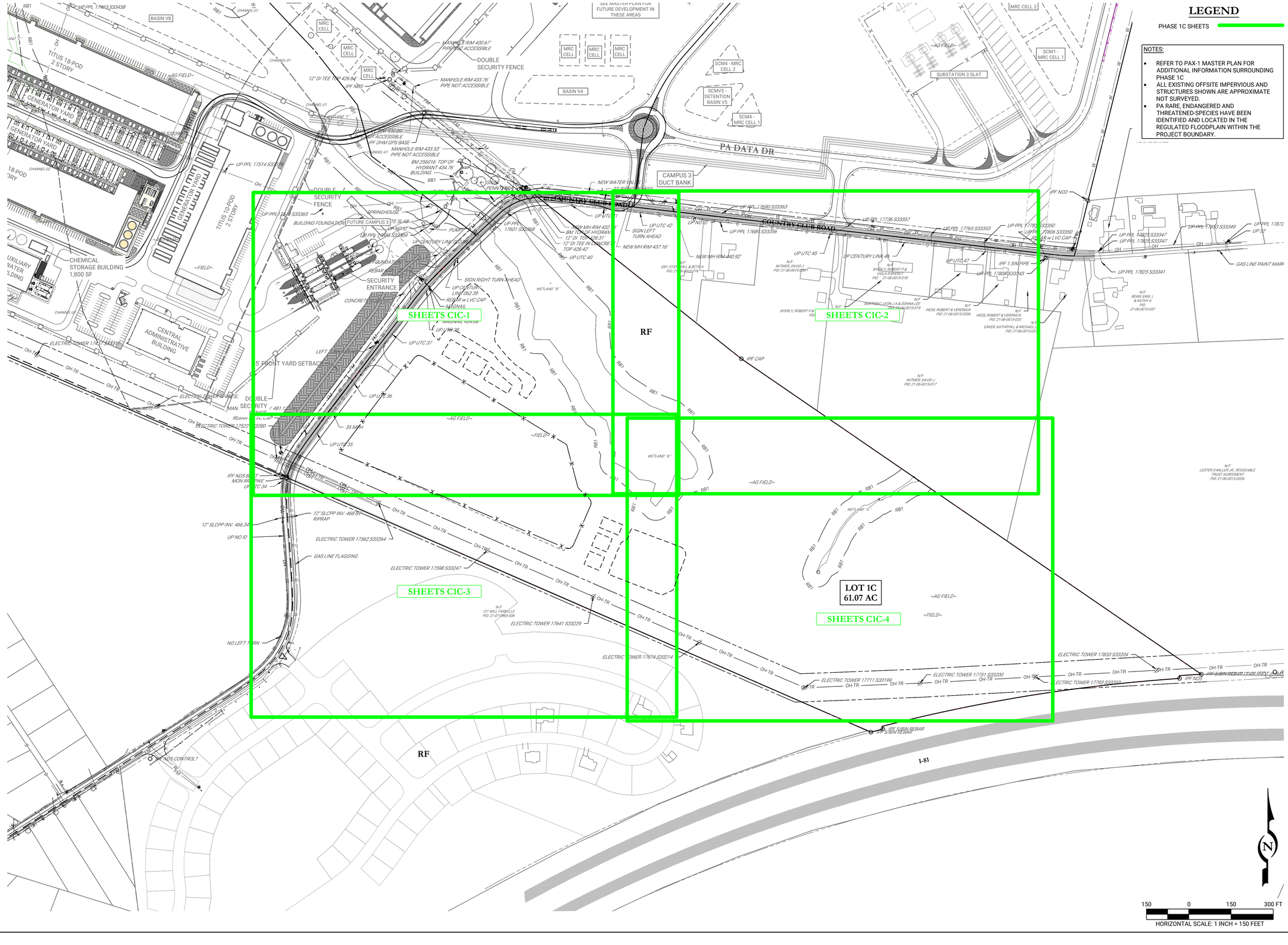
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

MASTERPLAN KEYMAP

SHEET NO.

C1C 005



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1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

PHASE 1C KEYMAP

SHEET NO.

C1C 006

NOTES:

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

HORIZONTAL SCALE: 1 INCH = 150 FEET

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PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

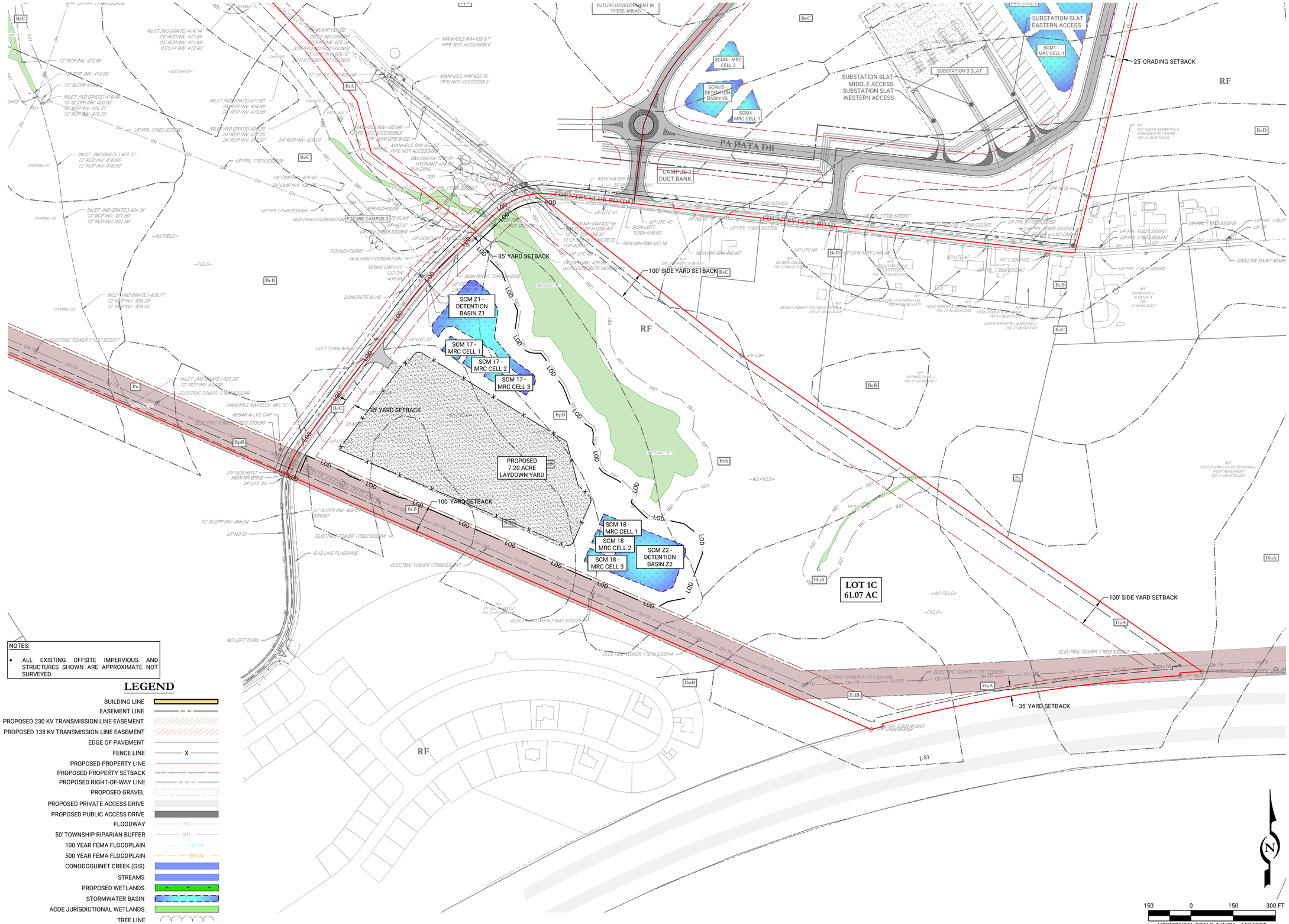
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

OVERALL EXISTING CONDITIONS & DEMO PLAN

SHEET NO.

C1C 007



NOTES:

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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
- 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

HORIZONTAL SCALE: 1 INCH = 150 FEET

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

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

OVERALL SITE LAYOUT PLAN

SHEET NO.

C1C 008

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
- 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

NOTES:

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SEE MASTER PLAN FOR FUTURE DEVELOPMENT IN THESE AREAS

SUBSTATION SLAT EASTERN ACCESS

SUBSTATION SLAT MIDDLE ACCESS

SUBSTATION SLAT WESTERN ACCESS

SUBSTATION 3 SLAT

SCM1 - MRC CELL 1

SCM4 - MRC CELL 2

SCM4 - MRC CELL 1

SCM5 - DETENTION BASIN V5

25' GRADING SETBACK

35' SIDE YARD SETBACK

35' FRONT YARD SETBACK

PA PATA DR

CAMPUS 3 DUCT BANK

100' RESIDENTIAL YARD SETBACK

COUNTRY CLUB ROAD

FUTURE CAMPUS 3

SEE CCR IMPROVEMENT PLANS FOR PHASE I ROAD WIDENING AND OVERLAY

35' YARD SETBACK

100' SIDE YARD SETBACK

LOD

SCM Z1 - DETENTION BASIN Z1

SCM 17 - MRC CELL 1

SCM 17 - MRC CELL 2

SCM 17 - MRC CELL 3

PROPOSED 7.20 ACRE LAYDOWN YARD

100' YARD SETBACK

SCM 18 - MRC CELL 1

SCM 18 - MRC CELL 2

SCM 18 - MRC CELL 3

SCM Z2 - DETENTION BASIN Z2

LOT 1C
61.07 AC

100' SIDE YARD SETBACK

35' YARD SETBACK

I-81

RF

HORIZONTAL SCALE: 1 INCH = 150 FEET

REV	DATE	COMMENTS	BY	CHKD
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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

OVERALL GRADING & STORMWATER PLAN

SHEET NO.

C1C 009

STORMWATER SYSTEM EASEMENT TO BENEFIT MIDDLESEX TOWNSHIP TOWNSHIP

EXISTING PPL ELECTRIC UTILITY CORPORATION

NOTES:

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REV	DATE	COMMENTS	BY	CHKD
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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

OVERALL EASEMENT PLAN

SHEET NO.

C1C 010

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
- 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

NOTES:

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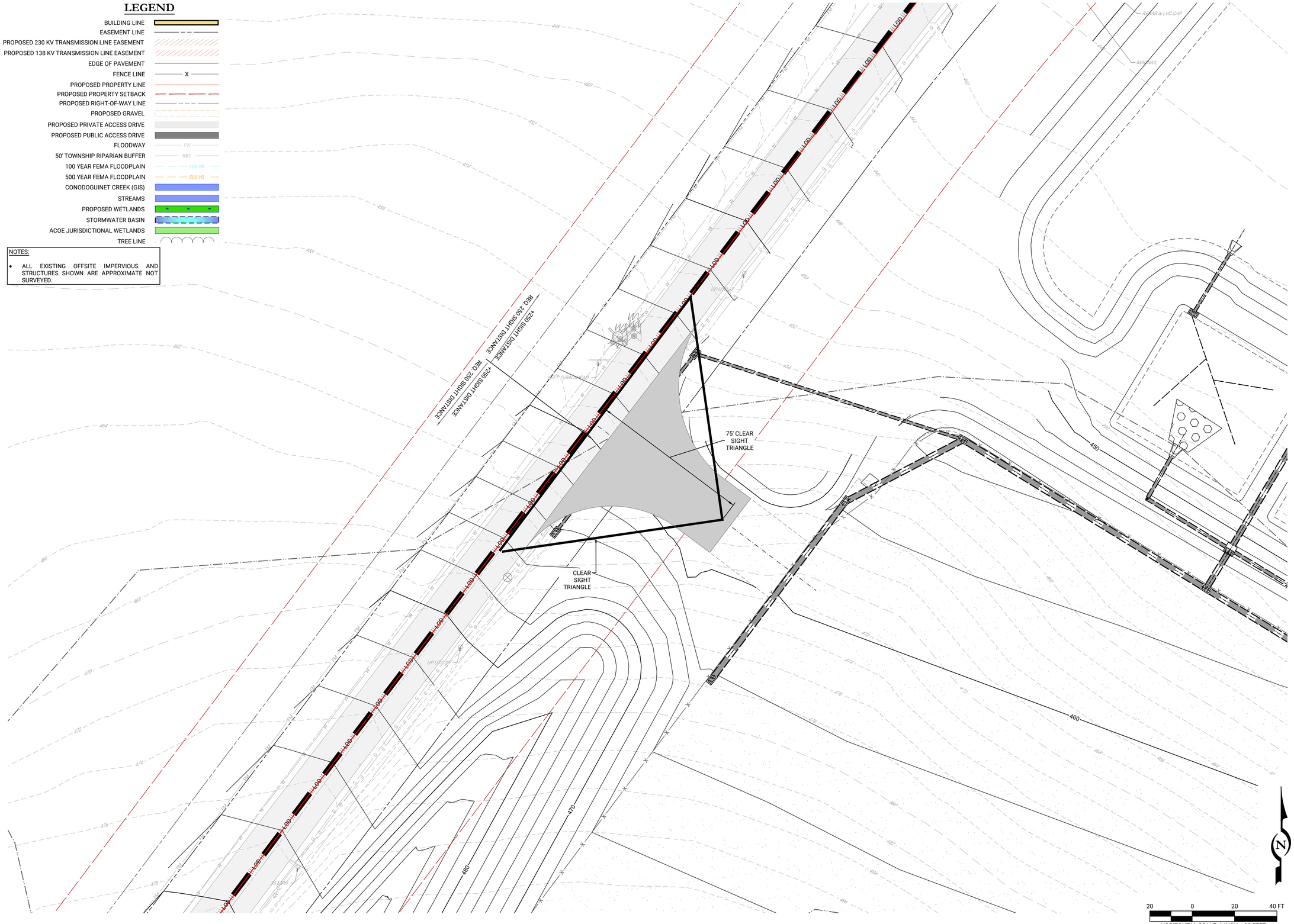

20 0 20 40 FT
HORIZONTAL SCALE: 1 INCH = 20 FEET

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PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

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

SHEET TITLE

CLEAR SIGHT PLAN

SHEET NO.

C1C 011



NOTES:

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MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

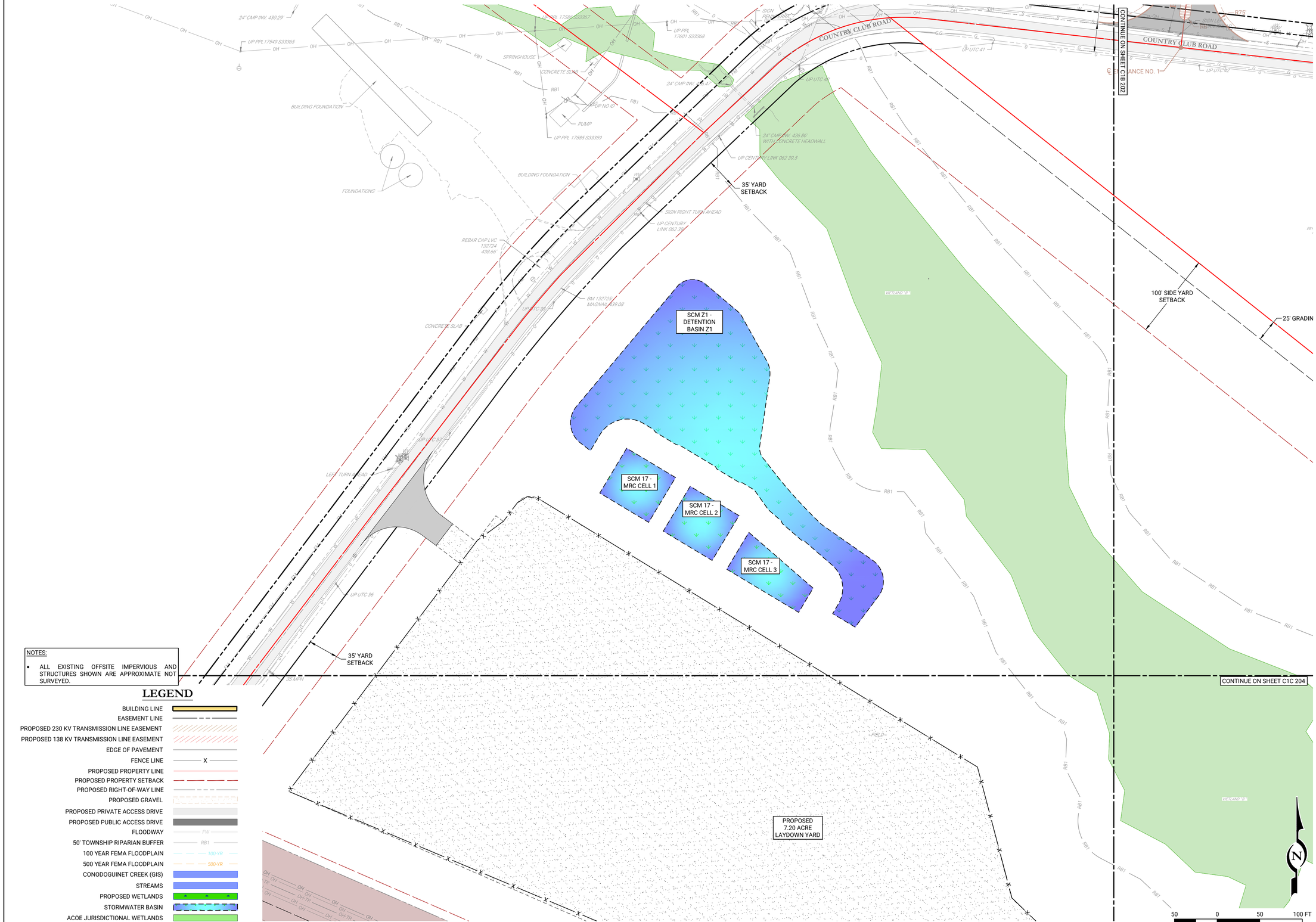
1660 INTERNATIONAL DRIVE MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

EXISTING CONDITIONS & DEMO PLAN

SHEET NO.

C1C 101


COUNTRY CLUB ROAD
CONTINUE ON SHEET C1B 202
CONTINUE ON SHEET C1C 204
35' YARD SETBACK
100' SIDE YARD SETBACK
25' GRADIN
SCM Z1 - DETENTION BASIN Z1
SCM 17 - MRC CELL 1
SCM 17 - MRC CELL 2
SCM 17 - MRC CELL 3
PROPOSED 7.20 ACRE LAYDOWN YARD
BUILDING FOUNDATION
FOUNDATIONS
SPRINGHOUSE
CONCRETE SLAB
PUMP
SIGN RIGHT TURN AHEAD
LEFT TURN HEAD
24" CMP INV. 430.29'
24" CMP INV. 426.86' WITH CONCRETE HEADWALL
REBAR CAP LVC 132724 438.66'
BM 132725 MAGNAIL 439.08'
UP PPL 17549 S33365
UP PPL 17585 S33367
UP PPL 17601 S33368
UP PPL 17585 S33359
UP CENTURY LINK 062 39.5
UP UTC 41
UP UTC 40
UP UTC 37
UP UTC 36
UP UTC 42
UP UTC 43
UP UTC 44
UP UTC 45
UP UTC 46
UP UTC 47
UP UTC 48
UP UTC 49
UP UTC 50
UP UTC 51
UP UTC 52
UP UTC 53
UP UTC 54
UP UTC



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
- 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

NOTES:

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

50 0 50 100 FT

HORIZONTAL SCALE: 1 INCH = 50 FEET

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CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

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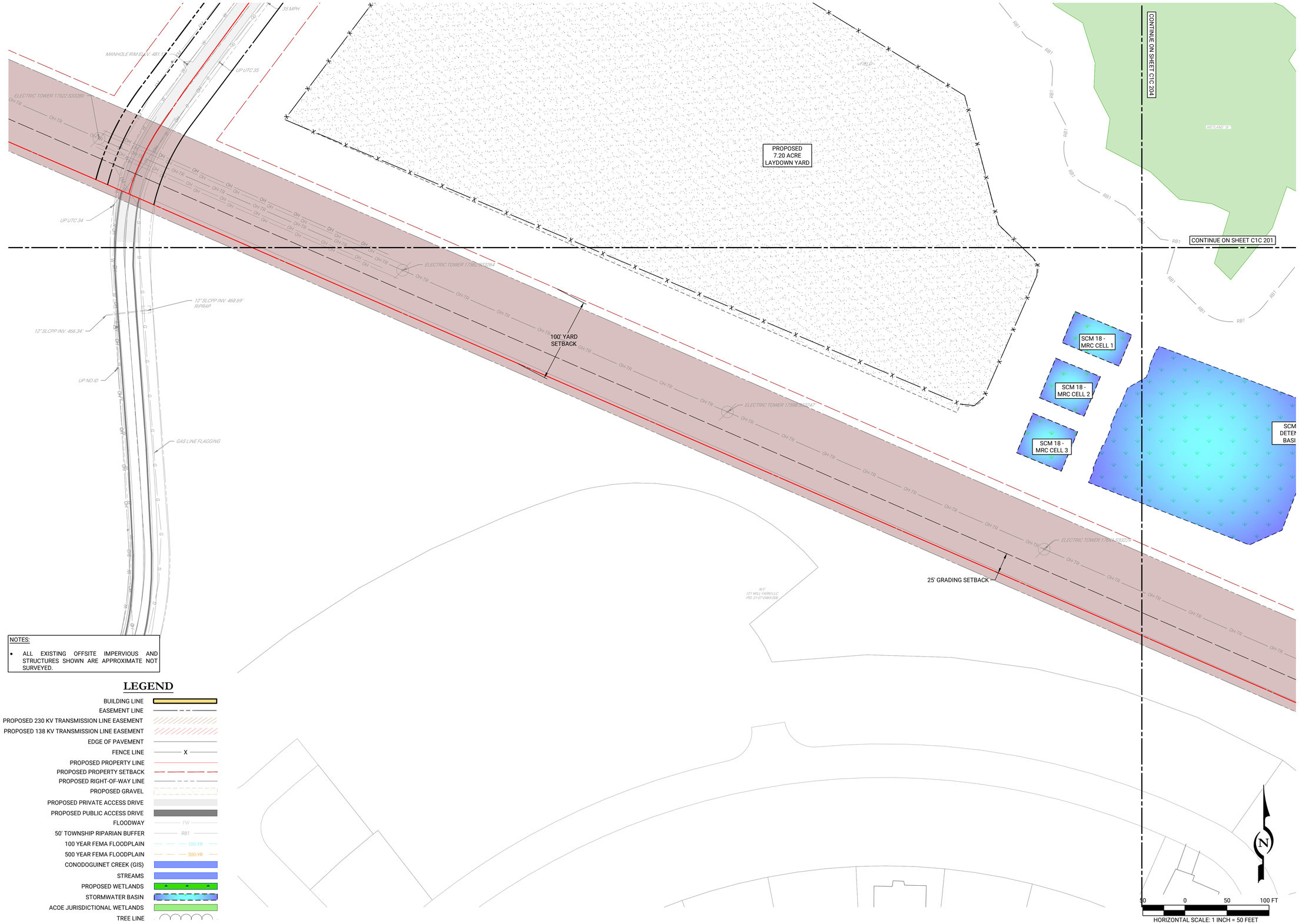
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

SITE LAYOUT PLAN

SHEET NO.

C1C 202



NOTES:

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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
- 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

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	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:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY:	RJB
CHECKED BY:	JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)

PHASE 1C

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.

C1C 203

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
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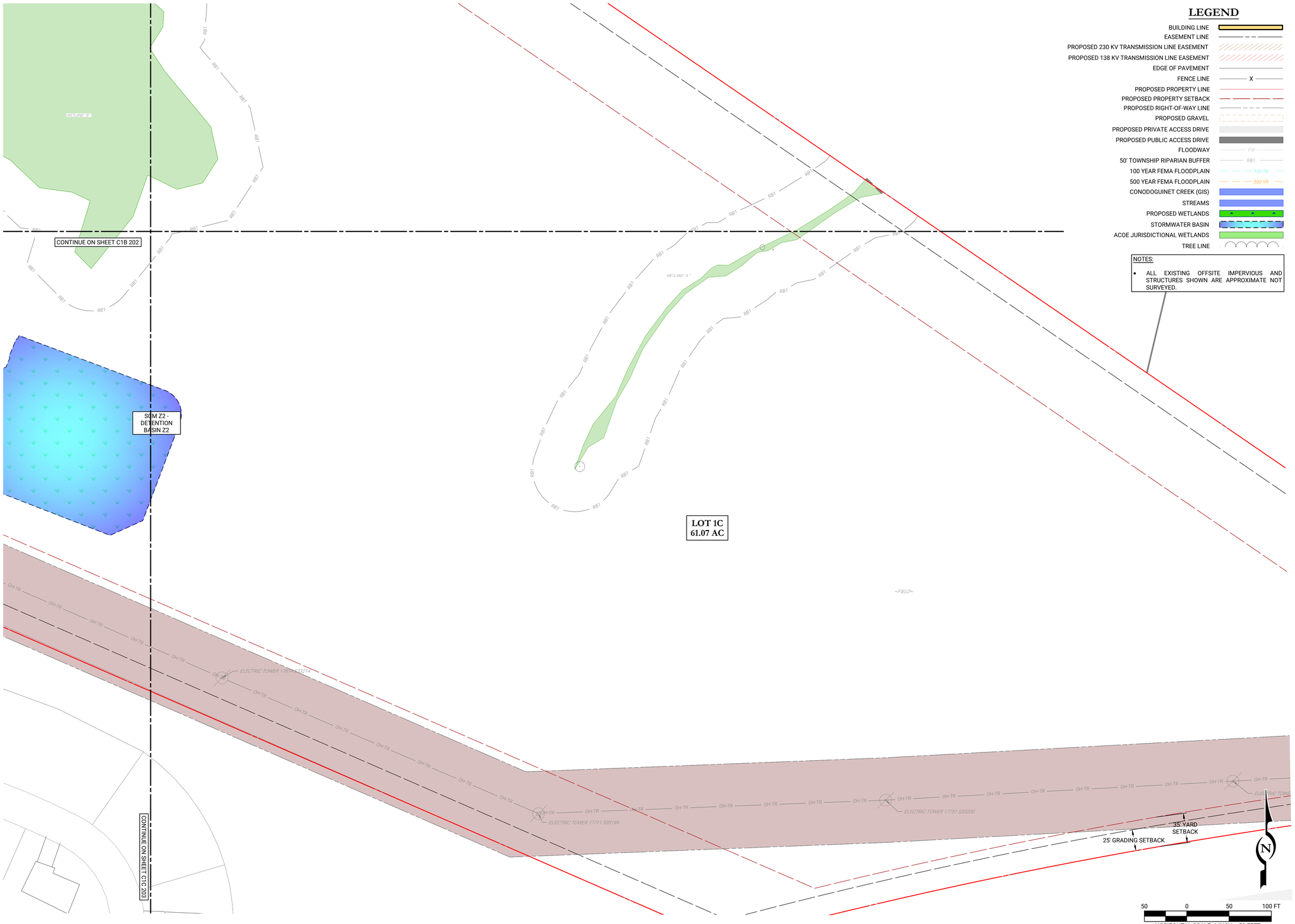
- STORMWATER BASIN
- ACOE JURISDICTIONAL WETLANDS
- TREE LINE

NOTES:

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



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1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

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SHEET TITLE

SITE LAYOUT PLAN

SHEET NO.

C1C 204

LEGEND

- BUILDING LINE
- EASEMENT LINE
- PROPOSED 230 KV TRANSMISSION LINE EASEMENT
- PROPOSED 138 KV TRANSMISSION LINE EASEMENT
- EXISTING TRANSMISSION LINE EASEMENT
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THE SOILS ON SITE ARE COMPOSED OF THE FOLLOWING :

- ATKINS SILT LOAM (Aw), HSG: B/D
- BEDINGTON SHALY SILT LOAM (BdB), 3 TO 8 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeB), 3 TO 8 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeC), 8 TO 15 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeD), 15 TO 25 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: D
- BRINKERTON SILT LOAM (BrB), 3 TO 8 PERCENT SLOPES, HSG: D
- DUFFIELD SILT LOAM (DuA), 0 TO 3 PERCENT SLOPES, HSG: B
- DUFFIELD SILT LOAM (DuB), 3 TO 8 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdB), 3 TO 8 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdC), 8 TO 15 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdD), 15 TO 25 PERCENT SLOPES, HSG: B
- HAGERSTOWN SILT LOAM (HaB), 3 TO 8 PERCENT SLOPES, HSG: B
- HUNTINGTON SILT LOAM (HuA), 0 TO 5 PERCENT SLOPES, HSG: B
- MELVIN SILT LOAM (Me), HSG: B/D
- MIDDLEBURY SOILS (Mf), HSG: B/D
- MONONGAHELA SILT LOAM (MnB), 3 TO 8 PERCENT SLOPES, HSG: C/D
- MONONGAHELA SILT LOAM (MnC), 8 TO 15 PERCENT SLOPES, HSG: C/D
- NESHAMINY GRAVELLY SILT LOAM (NeB), 3 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY GRAVELLY SILT LOAM (NeC), 8 TO 15 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhB), 0 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhD), 8 TO 25 PERCENT SLOPES, HSG: C
- PENLAW SILT LOAM (Pe): HSG: C/D
- PURDY SILT LOAM (Pu), HSG: D
- WATER (W)
- WEIKERT VERY CHANNERY SILT LOAM (WeD), 15 TO 25 PERCENT SLOPES, HSG: D
- WEIKERT AND KLINESVILLE VERY SHALY SILT LOAMS (WkF), 25 TO 75 PERCENT SLOPES, HSG: D

SCM Z1 - DETENTION BASIN Z1

OS-Z1-1.1
T/G:447.00
INV OUT:440.84 15" SLCPP NE
BOX BOTTOM: 440.84

FES-Z1-1.1
INV IN:445.00 18" SLCPP SW

FES-Z1-1.2
INV IN:440.50 15" SLCPP SW

4' BASIN UNDERDRAIN WITH C/O AT JUNCTIONS (TYP)

FES-Z1-1.3
INV IN:440.50 30" SLCPP SW

FES-Z1-1.5
INV IN:440.50 15" SLCPP SW

OS-Z1-1.2
T/G:447.00
INV OUT:440.83 15" SLCPP NE
BOX BOTTOM: 440.83

85' SPILLWAY
ELEV: 443.50' SPILLWAY LINING: NAG SHOREMAX W/C350 REINFORCE

FES-Z1-1.7
INV IN:440.50 15" SLCPP SW

OS-Z1-1.3
T/G:447.00
INV OUT:440.83 15" SLCPP NE
BOX BOTTOM: 440.83

FES-Z1-1.8
INV IN:439.67 24" SLCPP SW

OS-Z1-1.4
T/G:443.50
INV OUT:440.00 24" SLCPP NE
BOX BOTTOM: 440.00

FES-Z1-1.4
INV IN:445.00 18" SLCPP SW

FES-Z1-1.6
INV IN:445.00 18" SLCPP SW

SCM 17 - MRC CELL 1

SCM 17 - MRC CELL 2

SCM 17 - MRC CELL 3

RFLD-Z1-1.1

RFLD-Z1-1.2

IC-1.5
T/G:464.36
INV OUT:459.36 15" SLCPP NE
BOX BOTTOM: 459.36

IC-1.4
T/G:454.98
INV IN:450.78 15" SLCPP SW
INV OUT:450.78 15" SLCPP E
BOX BOTTOM: 450.78

IC-1.3 (4X4 BOX)(SNOUT)
T/G:455.31
INV IN:450.11 15" SLCPP W
INV IN:450.32 30" SLCPP SW
INV OUT:450.11 30" SLCPP SE
BOX BOTTOM: 444.11

IC-3.2
T/G:457.81
INV IN:453.18 30" SLCPP SW
INV OUT:453.18 30" SLCPP NE
BOX BOTTOM: 453.18

IC-3.1
T/G:462.13
INV OUT:457.62 30" SLCPP NE
BOX BOTTOM: 457.62

MH-Z1-1.1
T/G:453.51
INV IN:445.00 18" SLCPP NW
INV OUT:445.00 18" SLCPP SE
INV OUT:445.00 18" SLCPP NE
BOX BOTTOM: 445.00

FS-Z1-1.1
T/G:453.08
INV IN:448.58 30" SLCPP SW
INV OUT:445.00 18" SLCPP SE
INV OUT:445.00 18" SLCPP NW
INV OUT:441.10 30" SLCPP NE
BOX BOTTOM: 441.10

IC-1.1 (4X4 BOX)
T/G:458.50
INV OUT:454.00 30" SLCPP NW
BOX BOTTOM: 454.00

IC-1.2 (4X4 BOX)(SNOUT)
T/G:456.76
INV IN:452.55 30" SLCPP SE
INV IN:449.44 30" SLCPP NW
INV OUT:449.45 30" SLCPP NE
BOX BOTTOM: 443.45

IC-2.1
T/G:459.38
INV OUT:455.88 18" SLCPP S
BOX BOTTOM: 455.88

IC-2.2
T/G:461.37
INV IN:454.32 18" SLCPP N
INV OUT:454.32 18" SLCPP SE
BOX BOTTOM: 454.32

IC-2.3
T/G:461.03
INV IN:453.69 18" SLCPP NW
INV OUT:453.69 24" SLCPP S
BOX BOTTOM: 453.69

FES-Z2-1.1
INV IN:447.00 15" SLCPP NW

PROPOSED 7.20 ACRE LAYDOWN YARD

11' BERM

LIMIT OF DISTURBANCE
18.31 AC/797,584 SF

CONTINUE ON SHEET C1C 302

CONTINUE ON SHEET C1C 303

HORIZONTAL SCALE: 1 INCH = 50 FEET

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ISSUE / REVISIONS

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

GRADING & STORMWATER PLANS

SHEET NO.

C1C 301



LEGEND

- BUILDING LINE
- EASEMENT LINE
- PROPOSED 230 KV TRANSMISSION LINE EASEMENT
- PROPOSED 138 KV TRANSMISSION LINE EASEMENT
- EXISTING 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
- 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

THE SOILS ON SITE ARE COMPOSED OF THE FOLLOWING :

- ATKINS SILT LOAM (Aw), HSG: B/D
- BEDINGTON SHALY SILT LOAM (BdB), 3 TO 8 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeB), 3 TO 8 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeC), 8 TO 15 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeD), 15 TO 25 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: D
- BRINKERTON SILT LOAM (BrB), 3 TO 8 PERCENT SLOPES, HSG: D
- DUFFIELD SILT LOAM (DuA), 0 TO 3 PERCENT SLOPES, HSG: B
- DUFFIELD SILT LOAM (DuB), 3 TO 8 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdB), 3 TO 8 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdC), 8 TO 15 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdD), 15 TO 25 PERCENT SLOPES, HSG: B
- HAGERSTOWN SILT LOAM (HaB), 3 TO 8 PERCENT SLOPES, HSG: B
- HUNTINGTON SILT LOAM (HuA), 0 TO 5 PERCENT SLOPES, HSG: B
- MELVIN SILT LOAM (Me), HSG: B/D
- MIDDLEBURY SOILS (Mf), HSG: B/D
- MONONGAHELA SILT LOAM (MnB), 3 TO 8 PERCENT SLOPES, HSG: C/D
- MONONGAHELA SILT LOAM (MnC), 8 TO 15 PERCENT SLOPES, HSG: C/D
- NESHAMINY GRAVELLY SILT LOAM (NeB), 3 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY GRAVELLY SILT LOAM (NeC), 8 TO 15 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhB), 0 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhD), 8 TO 25 PERCENT SLOPES, HSG: C
- PENLAW SILT LOAM (Pe): HSG: C/D
- PURDY SILT LOAM (Pu), HSG: D
- WATER (W)
- WEIKERT VERY CHANNERY SILT LOAM (WeD), 15 TO 25 PERCENT SLOPES, HSG: D
- WEIKERT AND KLINESVILLE VERY SHALY SILT LOAMS (WkF), 25 TO 75 PERCENT SLOPES, HSG: D

NOTES:

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

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

GRADING & STORMWATER PLANS

SHEET NO.

C1C 302

THE SOILS ON SITE ARE COMPOSED OF THE FOLLOWING :

- ATKINS SILT LOAM (Aw), HSG: B/D
- BEDINGTON SHALY SILT LOAM (BdB), 3 TO 8 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeB), 3 TO 8 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeC), 8 TO 15 PERCENT SLOPES, HSG: B
- BERKS CHANNERY SILT LOAM (BeD), 15 TO 25 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: D
- BRINKERTON SILT LOAM (BrB), 3 TO 8 PERCENT SLOPES, HSG: D
- DUFFIELD SILT LOAM (DuA), 0 TO 3 PERCENT SLOPES, HSG: B
- DUFFIELD SILT LOAM (DuB), 3 TO 8 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdB), 3 TO 8 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdC), 8 TO 15 PERCENT SLOPES, HSG: B
- EDOM SILTY CLAY LOAM (EdD), 15 TO 25 PERCENT SLOPES, HSG: B
- HAGERSTOWN SILT LOAM (HaB), 3 TO 8 PERCENT SLOPES, HSG: B
- HUNTINGTON SILT LOAM (HuA), O TO 5 PERCENT SLOPES, HSG: B
- MELVIN SILT LOAM (Me), HSG: B/D
- MIDDLEBURY SOILS (Mf), HSG: B/D
- MONONGAHELA SILT LOAM (MnB), 3 TO 8 PERCENT SLOPES, HSG: C/D
- MONONGAHELA SILT LOAM (MnC), 8 TO 15 PERCENT SLOPES, HSG: C/D
- NESHAMINY GRAVELLY SILT LOAM (NeB), 3 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY GRAVELLY SILT LOAM (NeC), 8 TO 15 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhB), 0 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhD), 8 TO 25 PERCENT SLOPES, HSG: C
- PENLAW SILT LOAM (Pe): HSG: C/D
- PURDY SILT LOAM (Pu), HSG: D
- WATER (W)
- WEIKERT VERY CHANNERY SILT LOAM (WeD), 15 TO 25 PERCENT SLOPES, HSG: D
- WEIKERT AND KLINESVILLE VERY SHALY SILT LOAMS (WkF), 25 TO 75 PERCENT SLOPES, HSG: D

LEGEND

- BUILDING LINE
- EASEMENT LINE
- PROPOSED 230 KV TRANSMISSION LINE EASEMENT
- PROPOSED 138 KV TRANSMISSION LINE EASEMENT
- EXISTING TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- FENCE LINE
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- PROPOSED GRAVEL
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- PROPOSED PUBLIC ACCESS DRIVE
- FLOODWAY
- 50' TOWNSHIP RIPARIAN BUFFER
- 100 YEAR FEMA FLOODPLAIN
- 500 YEAR FEMA FLOODPLAIN
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CUMBERLAND COUNTY
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CLIENT

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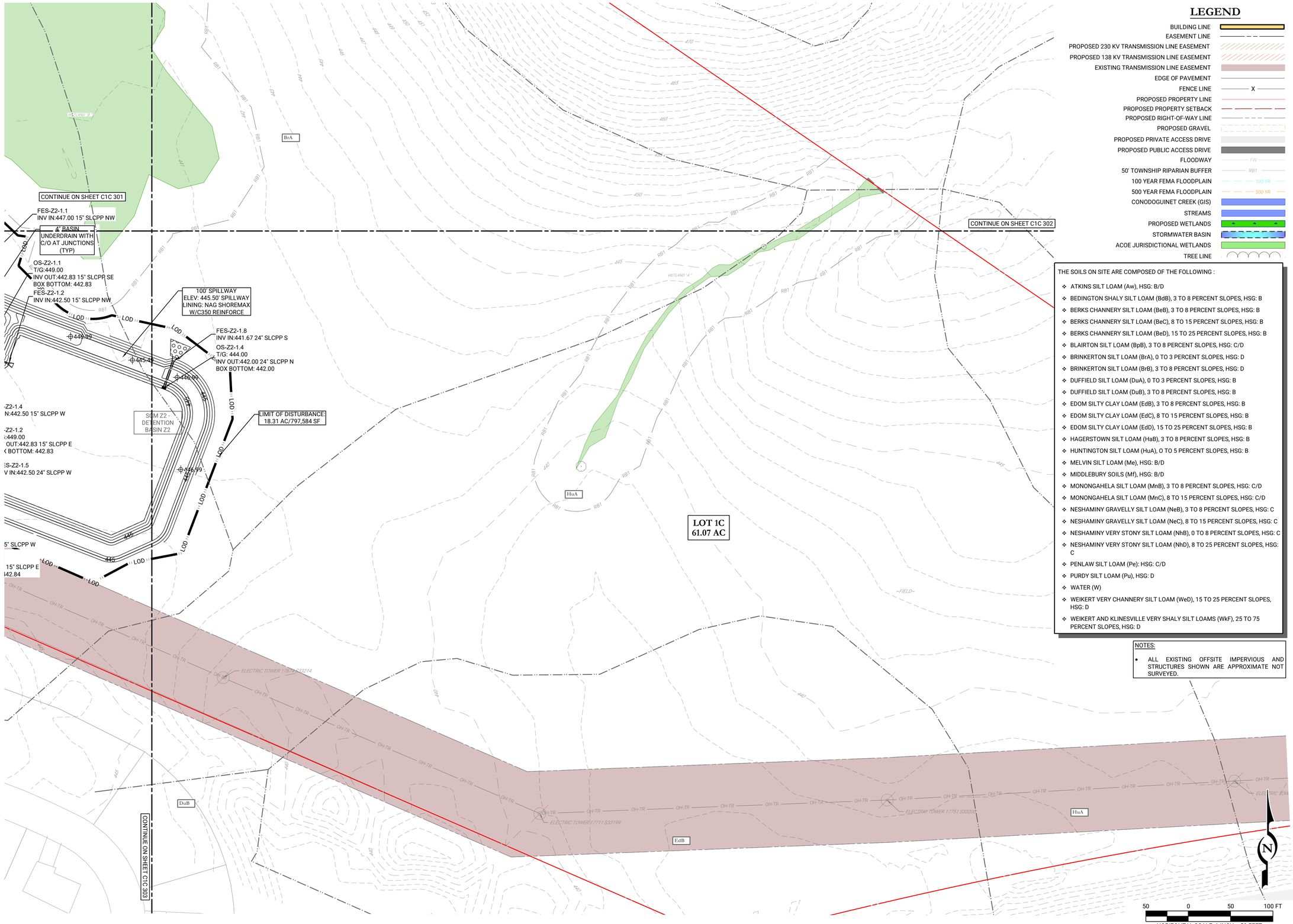
PHONE: (703) 234-3056

SHEET TITLE

GRADING & STORMWATER PLANS

SHEET NO.

C1C 303



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- HAGERSTOWN SILT LOAM (HaB), 3 TO 8 PERCENT SLOPES, HSG: B
- HUNTINGTON SILT LOAM (HuA), 0 TO 5 PERCENT SLOPES, HSG: B
- MELVIN SILT LOAM (Me), HSG: B/D
- MIDDLEBURY SOILS (Mf), HSG: B/D
- MONONGAHELA SILT LOAM (MnB), 3 TO 8 PERCENT SLOPES, HSG: C/D
- MONONGAHELA SILT LOAM (MnC), 8 TO 15 PERCENT SLOPES, HSG: C/D
- NESHAMINY GRAVELLY SILT LOAM (NeB), 3 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY GRAVELLY SILT LOAM (NeC), 8 TO 15 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhB), 0 TO 8 PERCENT SLOPES, HSG: C
- NESHAMINY VERY STONY SILT LOAM (NhD), 8 TO 25 PERCENT SLOPES, HSG: C
- PENLAW SILT LOAM (Pe): HSG: C/D
- PURDY SILT LOAM (Pu), HSG: D
- WATER (W)
- WEIKERT VERY CHANNERY SILT LOAM (WeD), 15 TO 25 PERCENT SLOPES, HSG: D
- WEIKERT AND KLINESVILLE VERY SHALY SILT LOAMS (WkF), 25 TO 75 PERCENT SLOPES, HSG: D

NOTES:

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

HORIZONTAL SCALE: 1 INCH = 50 FEET

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

ISSUE / REVISIONS

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

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DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

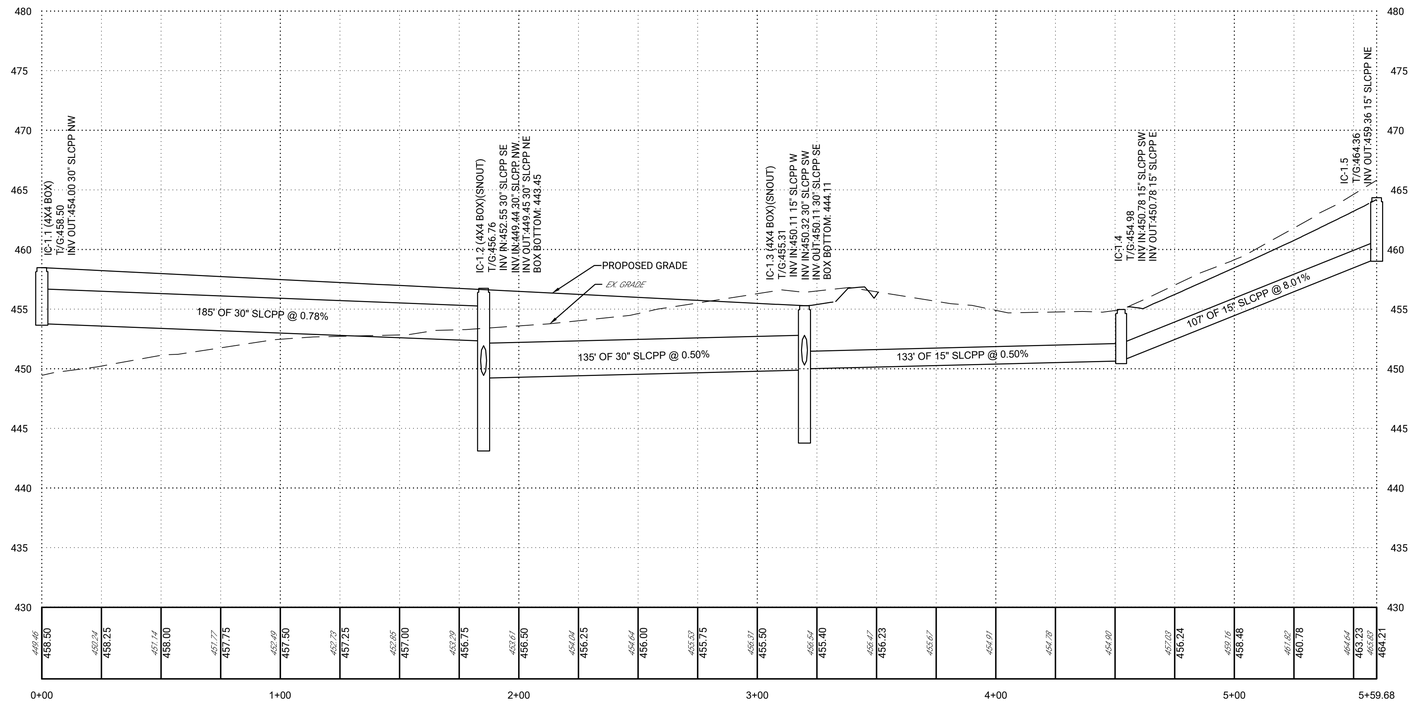
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

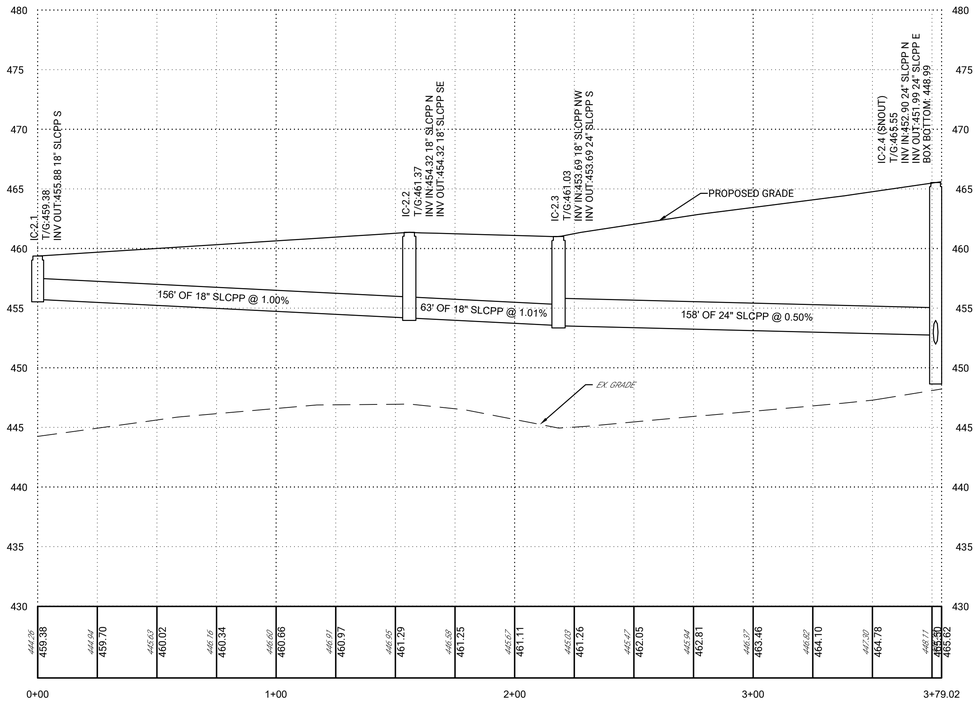
GRADING & STORMWATER PLANS

SHEET NO.

C1C 304



ALGN - IC-1.1 - IC-1.5 PROFILE



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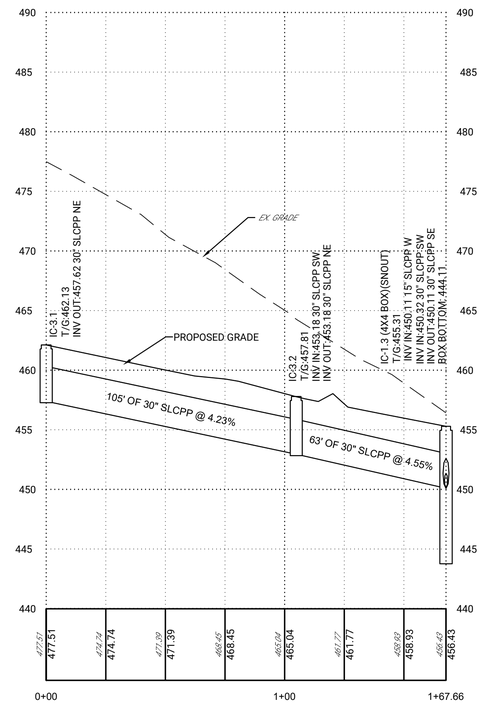

IC-3.1 - IC-1.3 PROFILE

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HORIZONTAL SCALE: 1 INCH = 6 FEET

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

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PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

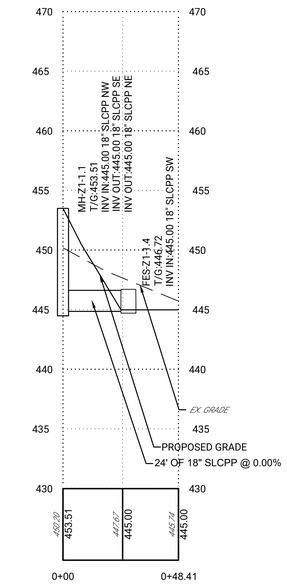
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

PROFILE PLAN

SHEET NO.

C1C 501



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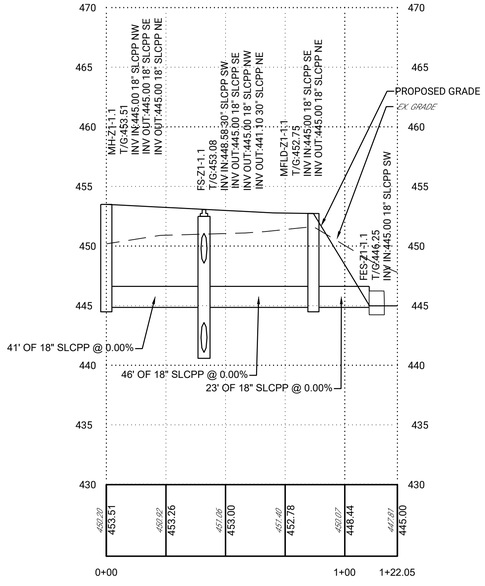
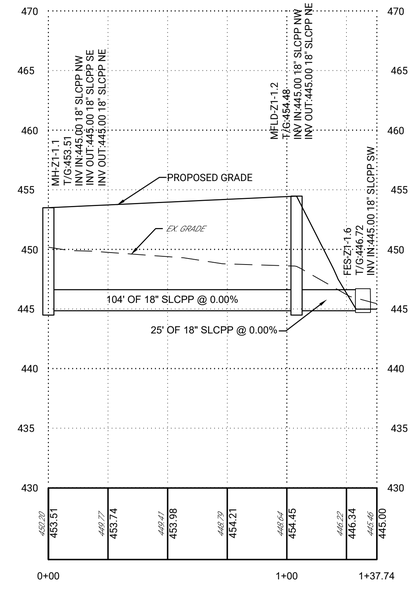


FS-Z1-1.1 - FES-Z1-1.1 PROFILE



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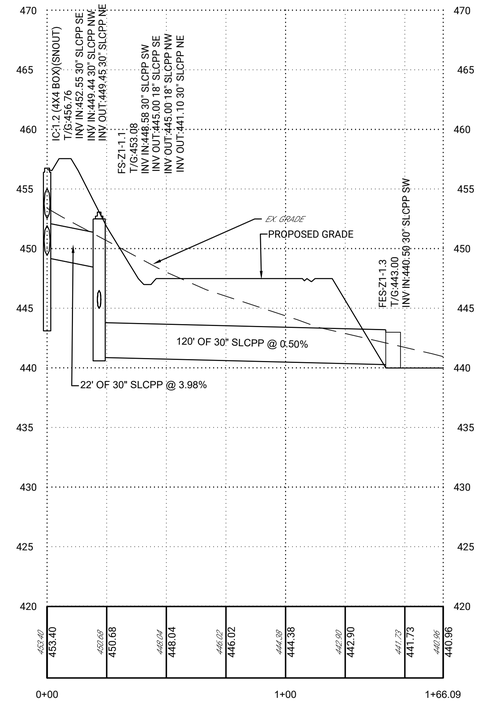

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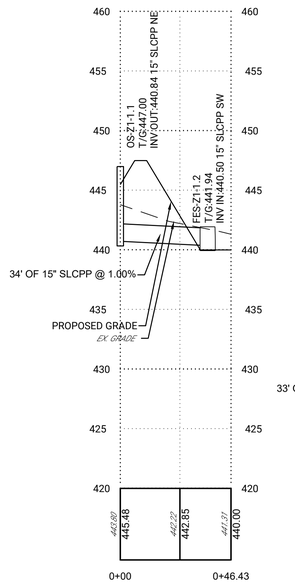
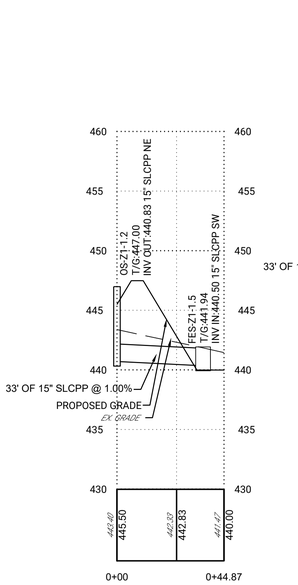


OS-Z1-1.1 - FES-Z1-1.2 PROFILE



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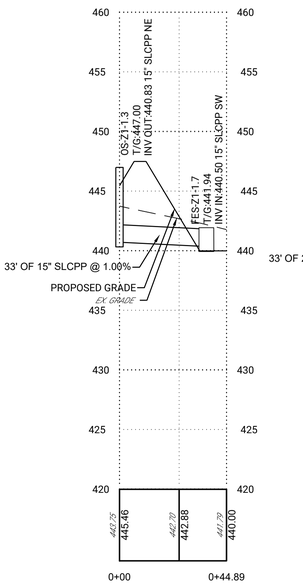

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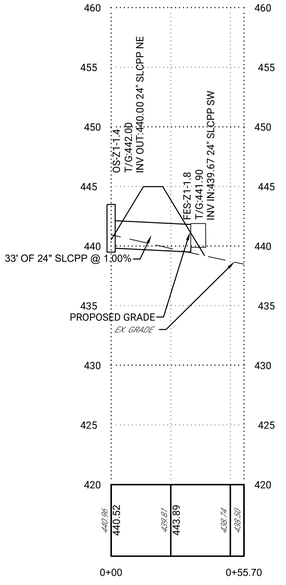

OS-Z1-1.4 - FES-Z1-1.8 PROFILE

6 0 6 12 FT
HORIZONTAL SCALE: 1 INCH = 6 FEET

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

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

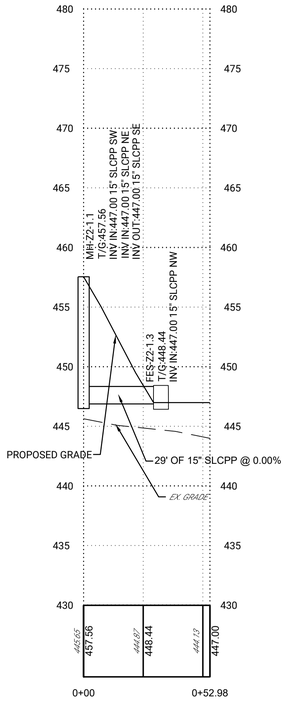
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

PROFILE PLAN

SHEET NO.

C1C 502



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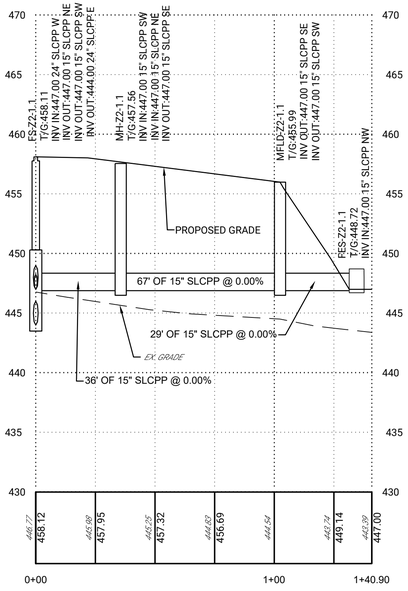

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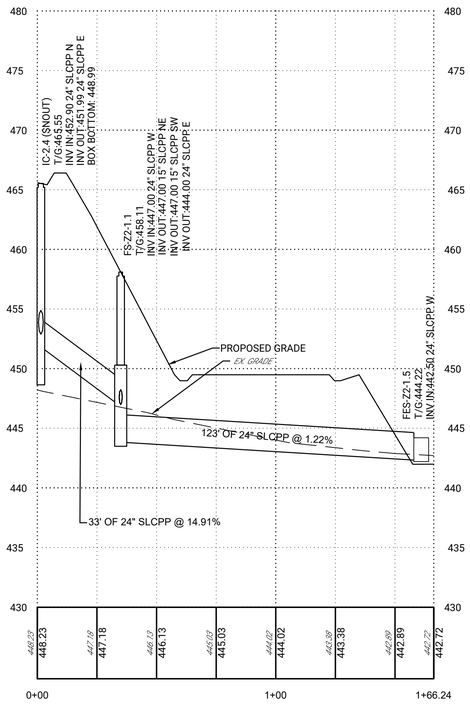
FS-Z2-1.1 - FES-Z2-1.6 PROFILE



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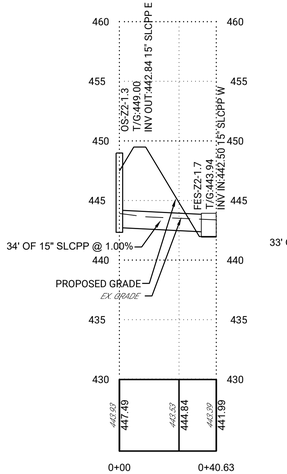

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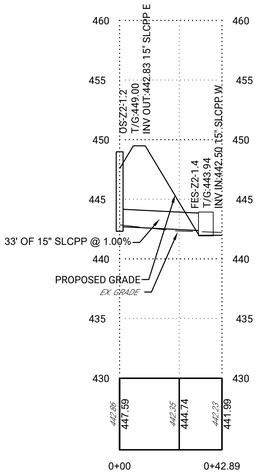

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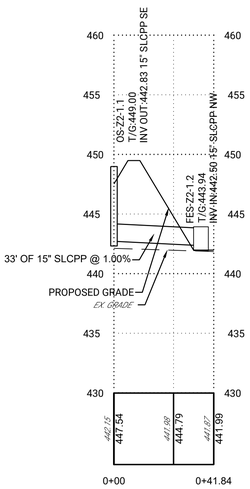

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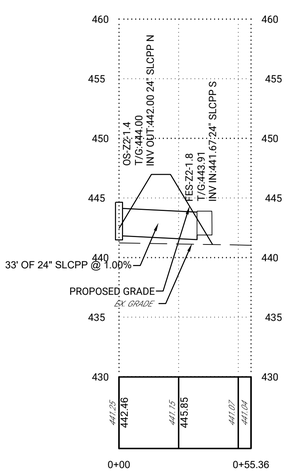

OS-Z2-1.4 - FES-Z2-1.8 PROFILE

6 0 6 12 FT
HORIZONTAL SCALE: 1 INCH = 6 FEET

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

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	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:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

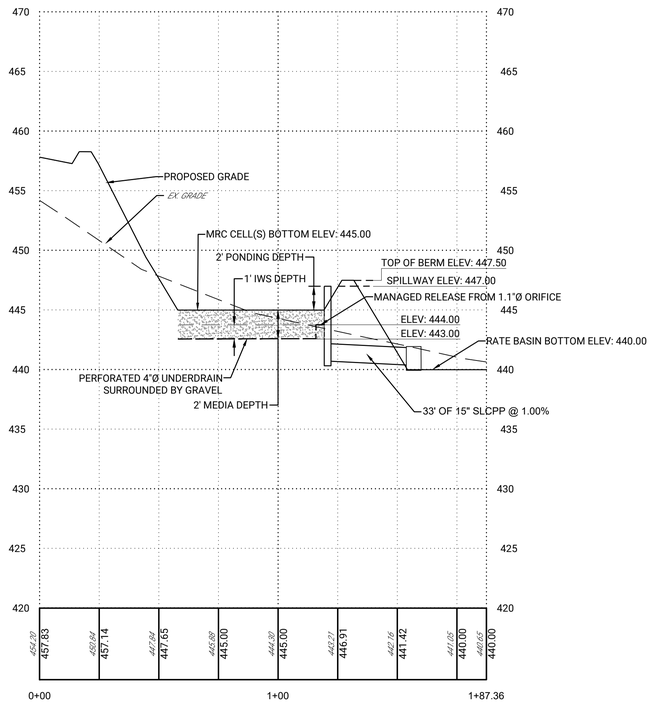
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

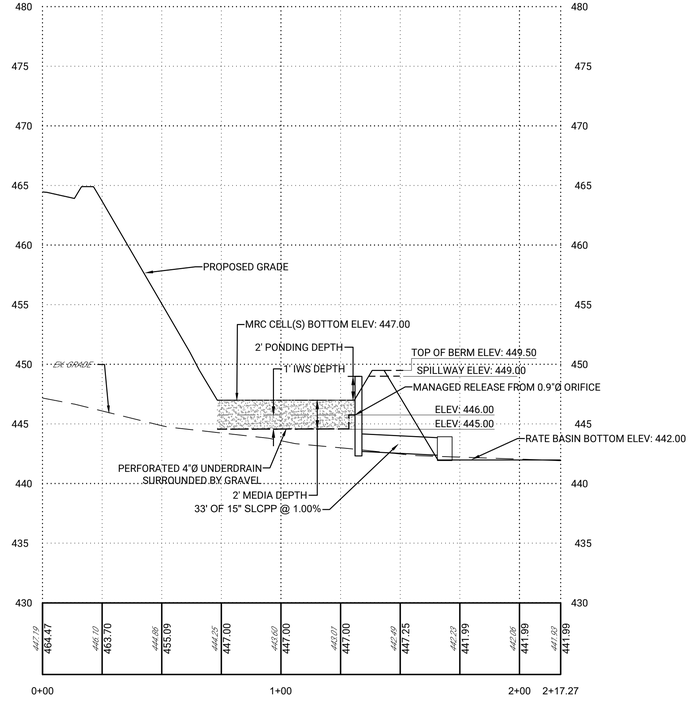
PROFILE PLAN

SHEET NO.

C1C 503



Z1 MRC CELLS PROFILE



Z2 MRC CELLS PROFILE

6 0 6 12 FT
HORIZONTAL SCALE: 1 INCH = 6 FEET

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

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

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.

C1C 504

PHASE 1C OVERALL PLANT SCHEDULE

KEY	QTY	BOTANICAL	COMMON NAME	SIZE	ROOT	COMMENTS
EVERGREEN TREES						
	24	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6-8' HGT.	CONT.	12' O.C.
	14	PINUS STROBUS	WHITE PINE	6-8' HGT.	B & B	12' O.C.
	35	THUJA PICATA "GREEN GIANT"	GIANT GREEN ARBORVITAE	6-8' HGT.	CONT.	12' O.C.
	35	PICEA ABIES	NORWAY SPRUCE	6-8' HGT.	CONT.	12' O.C.

PHASE 1C C1C 601 PLANT SCHEDULE

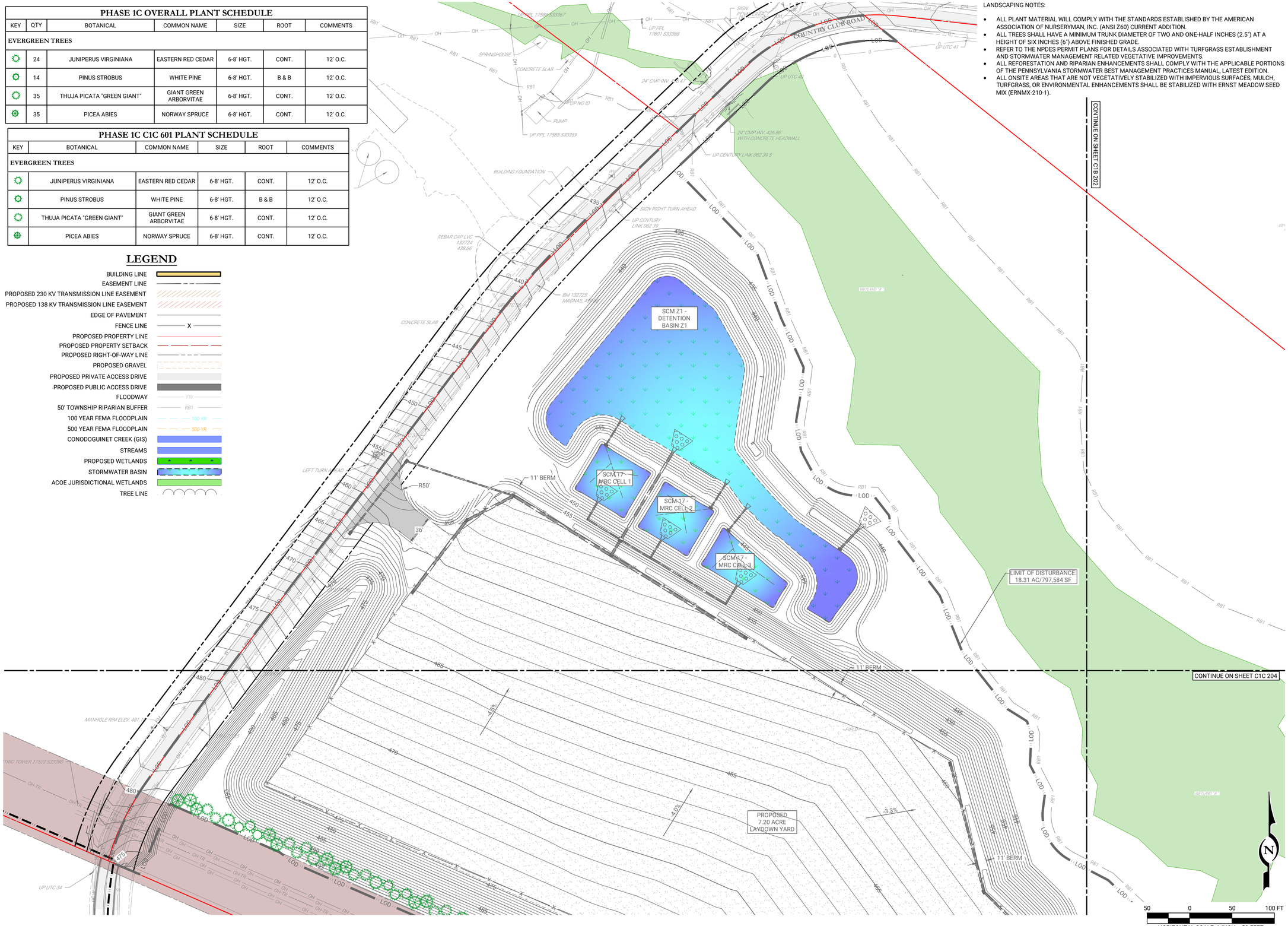
KEY	BOTANICAL	COMMON NAME	SIZE	ROOT	COMMENTS
EVERGREEN TREES					
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6-8' HGT.	CONT.	12' O.C.
	PINUS STROBUS	WHITE PINE	6-8' HGT.	B & B	12' O.C.
	THUJA PICATA "GREEN GIANT"	GIANT GREEN ARBORVITAE	6-8' HGT.	CONT.	12' O.C.
	PICEA ABIES	NORWAY SPRUCE	6-8' HGT.	CONT.	12' O.C.

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
- 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

LANDSCAPING NOTES:

- ALL PLANT MATERIAL WILL COMPLY WITH THE STANDARDS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN, INC. (ANSI Z60) CURRENT ADDITION.
- ALL TREES SHALL HAVE A MINIMUM TRUNK DIAMETER OF TWO AND ONE-HALF INCHES (2.5") AT A HEIGHT OF SIX INCHES (6") ABOVE FINISHED GRADE.
- REFER TO THE 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 ONSITE 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).



REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

ISSUE / REVISIONS

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DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

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.

C1C 601



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
- 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

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

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PHASE 1C

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CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

LANDSCAPING PLAN

SHEET NO.

C1C 602



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
- 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

PHASE 1C C1C 603 PLANT SCHEDULE

KEY	BOTANICAL	COMMON NAME	SIZE	ROOT	COMMENTS
EVERGREEN TREES					
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6-8' HGT.	CONT.	12' O.C.
	PINUS STROBUS	WHITE PINE	6-8' HGT.	B & B	12' O.C.
	THUJA PICATA "GREEN GIANT"	GIANT GREEN ARBORVITAE	6-8' HGT.	CONT.	12' O.C.
	PICEA ABIES	NORWAY SPRUCE	6-8' HGT.	CONT.	12' O.C.

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

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	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:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

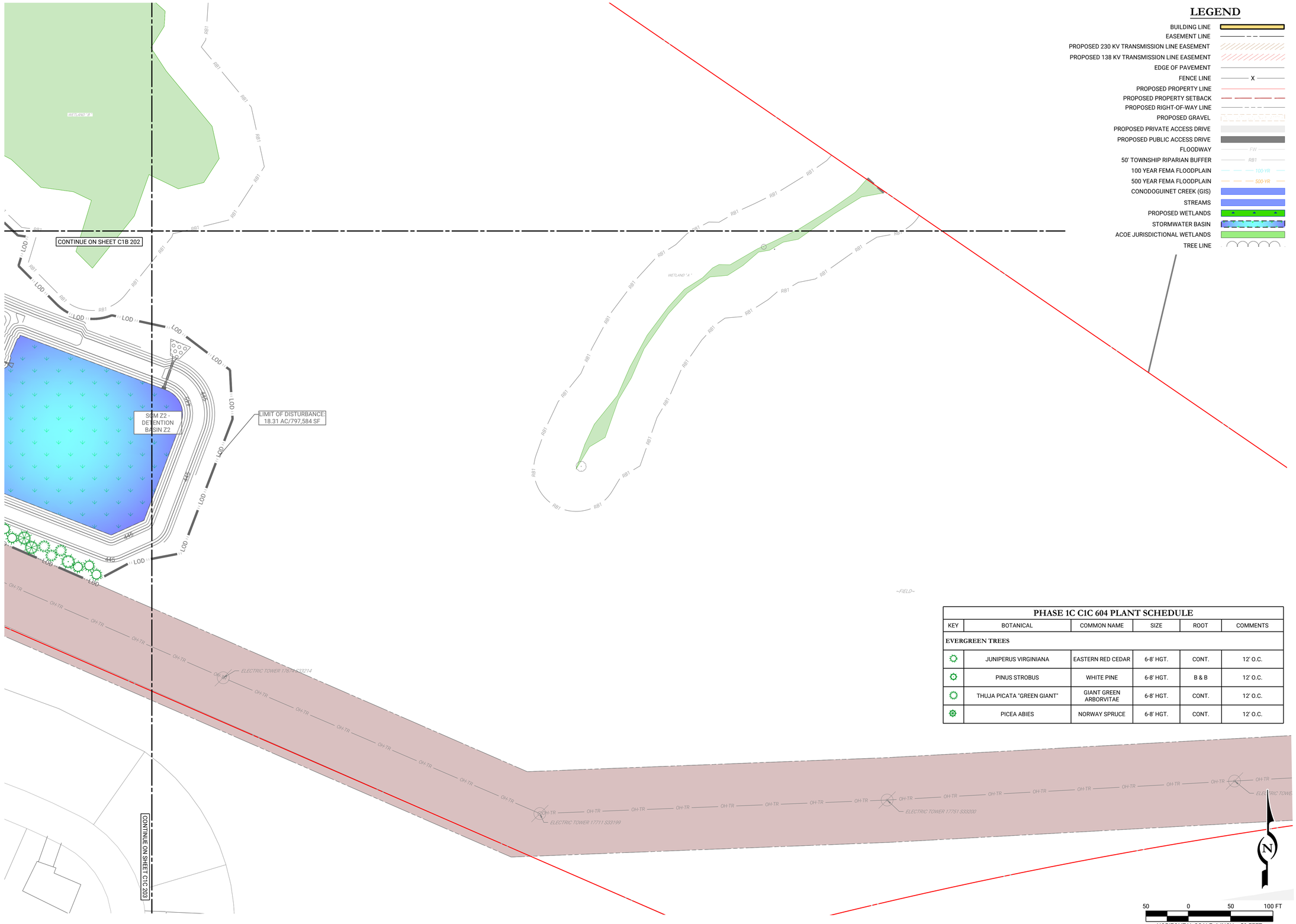
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

LANDSCAPING PLAN

SHEET NO.

C1C 603



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
- 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

PHASE 1C C1C 604 PLANT SCHEDULE

KEY	BOTANICAL	COMMON NAME	SIZE	ROOT	COMMENTS
EVERGREEN TREES					
	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6-8' HGT.	CONT.	12' O.C.
	PINUS STROBUS	WHITE PINE	6-8' HGT.	B & B	12' O.C.
	THUJA PICATA "GREEN GIANT"	GIANT GREEN ARBORVITAE	6-8' HGT.	CONT.	12' O.C.
	PICEA ABIES	NORWAY SPRUCE	6-8' HGT.	CONT.	12' O.C.

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

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

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PENNSYLVANIA

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1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
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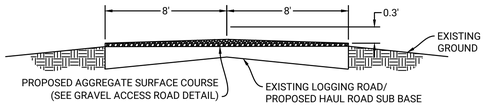
SHEET TITLE

LANDSCAPING PLAN

SHEET NO.

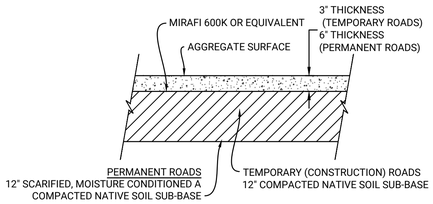
C1C 604



*SEE PLANS FOR SLOPE
ALL GRAVEL ACCESS ROADS TO BE CONSTRUCTED FLUSH WITH FINISHED GRADE
ALTERNATES PROPOSED TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION

TYPICAL SECTION GRAVEL ACCESS ROAD

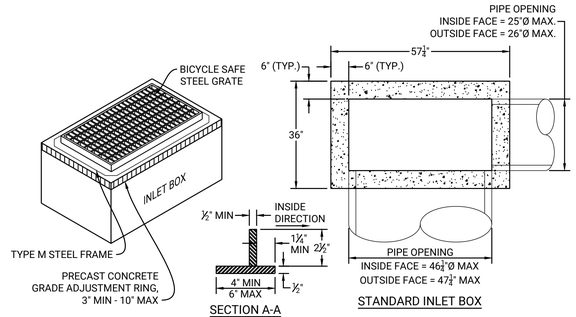
NOT TO SCALE



* ALTERNATES PROPOSED TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

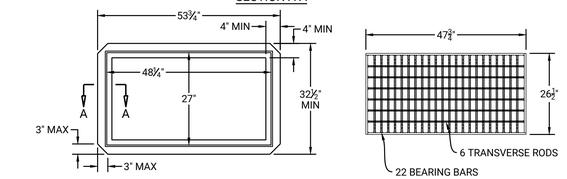
TYPICAL GRAVEL ACCESS ROAD DETAIL

NOT TO SCALE



SECTION A-A

STANDARD INLET BOX



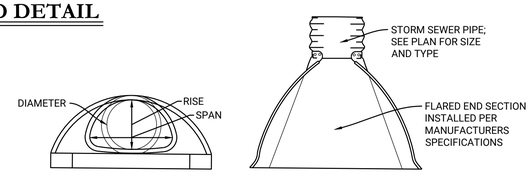
STEEL FRAME PLAN VIEW

STRUCTURAL STEEL GRATE BICYCLE SAFE

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.

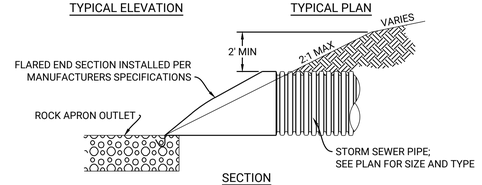
STANDARD INLET BOX - TYPE M STEEL FRAME

NOT TO SCALE



TYPICAL ELEVATION

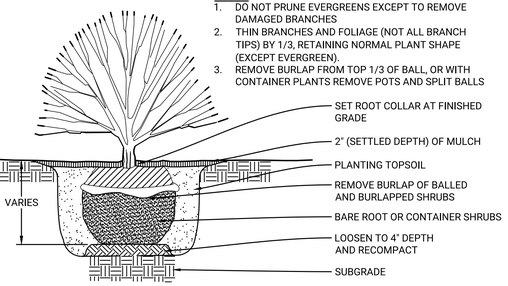
TYPICAL PLAN



SECTION

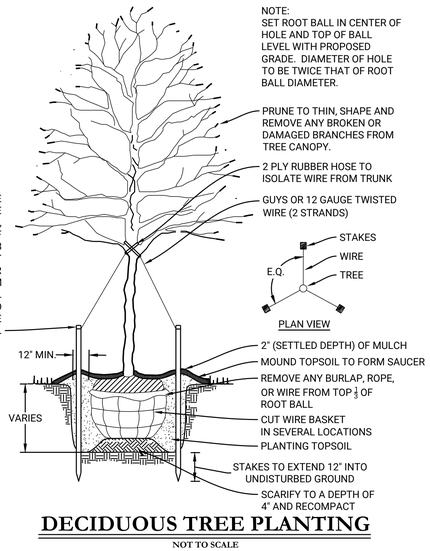
HDPE FLARED END SECTION

NOT TO SCALE



SHRUB PLANTING

NOT TO SCALE



DECIDUOUS TREE PLANTING

NOT TO SCALE

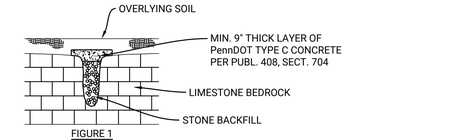


FIGURE 1

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.

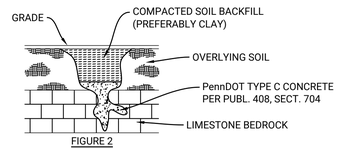


FIGURE 2

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.

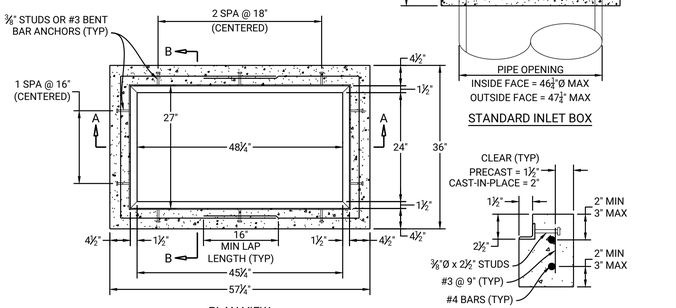
A PROFESSIONAL GEOLOGIST OR SOILS ENGINEER SHALL BE CONSULTED DURING CONSTRUCTION ACTIVITY IN THE VICINITY OF ANY KNOWN CLOSED DEPRESSIONS, SINK HOLES, ROCK OUTCROPS, FRACTURE TRACES, ETC., OR IF ANY ABNORMAL SOIL OR SUBGRADE CONDITIONS ARE ENCOUNTERED ELSEWHERE ON THE SITE. ANY PREVENTATIVE AND/OR CORRECTIVE 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

STRUCTURAL STEEL GRATE BICYCLE SAFE

STANDARD INLET BOX



PLAN VIEW

DETAIL 1

SECTION A-A

SECTION B-B

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 CONCRETE TOP

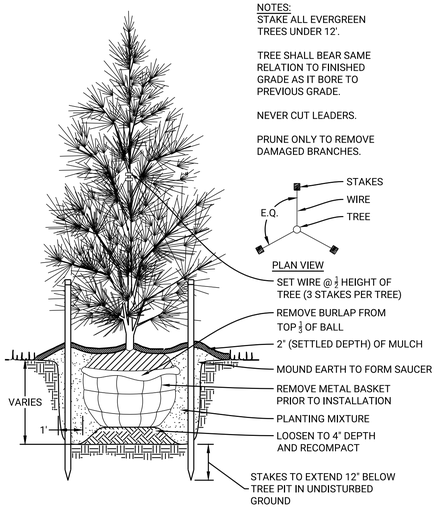
NOT TO SCALE

NOTES:
STAKE ALL EVERGREEN TREES UNDER 12'.

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

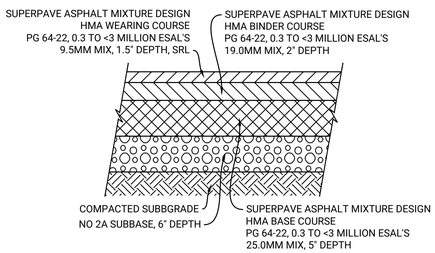
NEVER CUT LEADERS.

PRUNE ONLY TO REMOVE DAMAGED BRANCHES.



EVERGREEN TREE PLANTING

NOT TO SCALE



STANDARD ASPHALT PAVEMENT

NOT TO SCALE

REV	DATE	ISSUE / REVISIONS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR
		COMMENTS		

LIVIC civil
1015 MUMMA ROAD
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PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

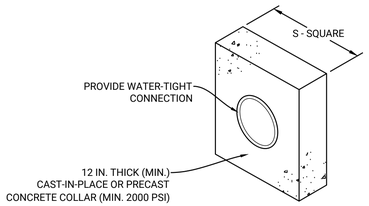
1660 INTERNATIONAL DRIVE MCLEAN, VA 22102 PHONE: (703) 234-3056

SHEET TITLE

CIVIL DETAILS

SHEET NO.

C1C 801



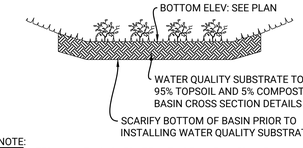
BASIN OR TRAP NO.	PIPE SIZE (IN)	S (IN)	NO. OF COLLARS
Z1	24	39	2
Z2	24	42	1

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

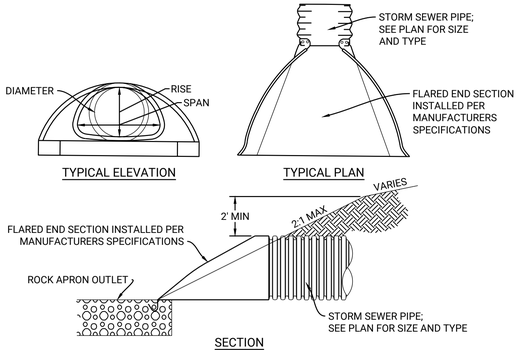


NOTE:
THE WATER QUALITY SUBSTRATE IS TO BE INSTALLED WITH LIGHT MACHINERY TO AVOID COMPACTION. IT IS RECOMMENDED THAT A SOIL SAMPLE ANALYSIS BE PERFORMED PRIOR TO INSTALLATION TO ENSURE THE PROPER MIX IS BEING USED. THE SEEDING SHALL BE INSTALLED DURING A TIME IN WHICH NO RAIN IS PREDICTED TO AIDE IN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



HDPE FLARED END SECTION

NOT TO SCALE

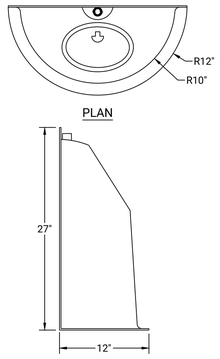
WATER QUALITY BMP-AMENDED SOIL (BASINS Z1 & Z2)

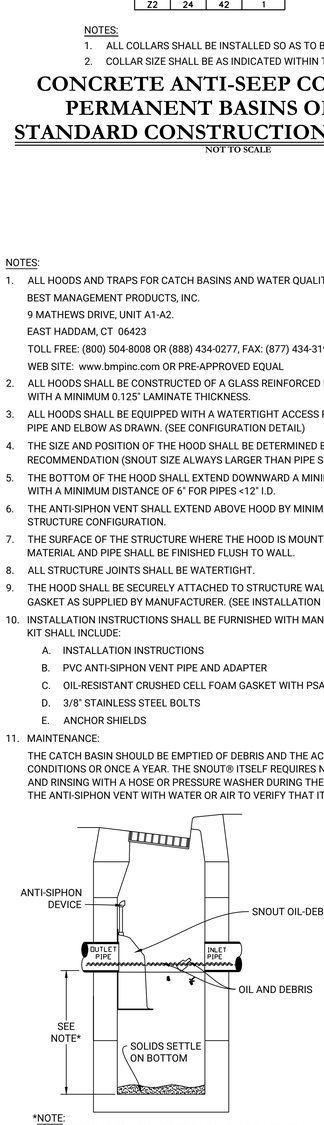
NOT TO SCALE

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



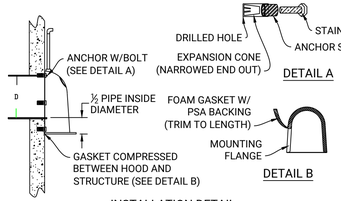


*NOTE:
SUMP DEPTH OF 36" MIN. FOR UP TO 12" ID PIPE. OUTLET. FOR PIPES 15" ID AND ABOVE SUMP DEPTH OF 2.5 TO 3 TIMES PIPE ID RECOMMENDED (E.G. 5' DEEP for 24" PIPE)

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".



WATER QUALITY STRUCTURE-SNOUT

NOT TO SCALE

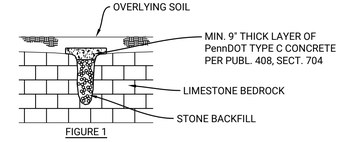


FIGURE 1

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.

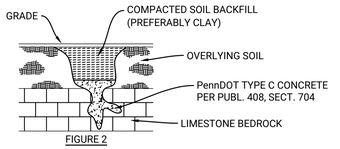


FIGURE 2

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

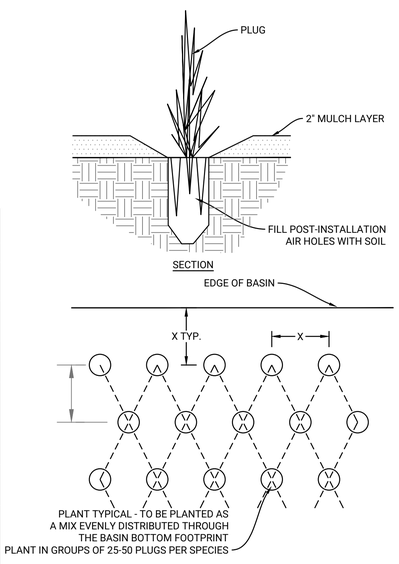
NOT TO SCALE

GRASSES AND PERENNIALS - MRC CELLS

QTY.	BOTANICAL NAME	COMMON NAME	SIZE	NOTE
Z1 - 198 Z2 - 140	CAREX LURIDA	SALLOW SEDGE	5" PLUG	PLANT 36" OC
Z1 - 198 Z2 - 140	CAREX STRICTA	TUSSOCK SEDGE	5" PLUG	PLANT 36" OC
Z1 - 198 Z2 - 140	JUNCUS EFFUSUS	COMMON RUSH	5" PLUG	PLANT 36" OC
Z1 - 198 Z2 - 140	ASCLEPIAS INCARNATA	SWAMP MILKWEED	5" PLUG	PLANT 36" OC
Z1 - 198 Z2 - 140	EUPATORIUM FISTULASUM	JOE PYE WEED	5" PLUG	PLANT 36" OC
Z1 - 198 Z2 - 140	LOBELIA CARDINALIS	CARDINAL FLOWER	5" PLUG	PLANT 36" OC
Z1 - 198 Z2 - 140	SOLIDAGO GRAMINIFOLIA	GRASS-LEAVED GOLDENROD	5" PLUG	PLANT 36" OC
Z1 - 198 Z2 - 140	VERBENA HASTATA	BLUE VERVAIN	5" PLUG	PLANT 36" OC

NOTES:

1. QUANTITY FOR MRC BASINS IS THE TOTAL FOR ALL MRC CELLS



PLUG PLANTING

NOT TO SCALE

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

ISSUE / REVISIONS

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PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

CIVIL DETAILS

SHEET NO.

C1C 802

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: $SAR = [Na^{+}]/\sqrt{([Ca^{2+}] + [Mg^{2+}])/2}$ 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

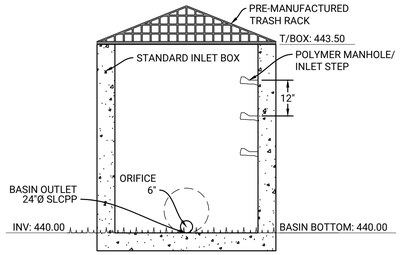
SOIL MEDIA

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

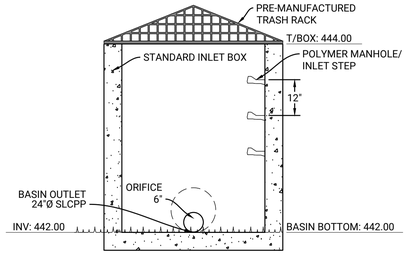
NOT TO SCALE



LOOKING DOWNSTREAM

BASIN Z1 OUTLET STRUCTURE

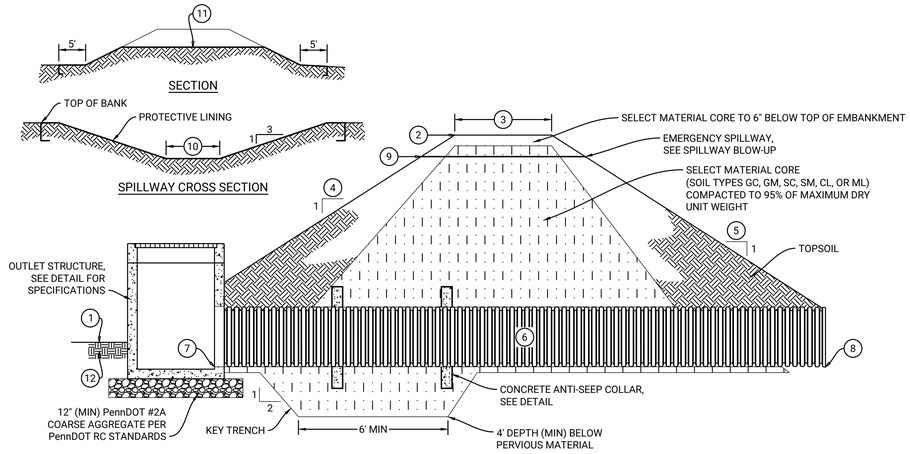
NOT TO SCALE



LOOKING DOWNSTREAM

BASIN Z2 OUTLET STRUCTURE

NOT TO SCALE

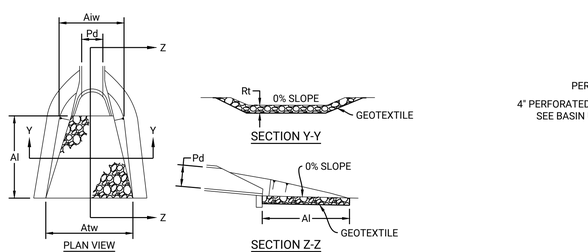


BASIN CROSS SECTION

BASIN KEY	BASIN FEATURE	BASIN SUMMARY	
		BASIN Z1	BASIN Z2
1	BASIN BOTTOM ELEVATION	440.00	442.00
2	BERM ELEVATION	445.00	447.00
3	BERM WIDTH	8'	8'
4	BASIN SIDE SLOPE-INSIDE (Z:1)	3	3
5	BASIN SIDE SLOPE-OUTSIDE (Z:1)	3	3
6	OUTLET PIPE (ADS HP STORM PIPE)	24"	24"
7	INFLOW INVERT ELEVATION	440.00	442.00
8	OUTFLOW INVERT ELEVATION	SEE PROFILE	SEE PROFILE
9	SPILLWAY ELEVATION	443.50	445.5
10	SPILLWAY WIDTH	85'	100'
11	SPILLWAY LINING	SHOREMAX W/C350	SHOREMAX W/C350
12	AMENDED SOIL DEPTH (BASINS & CELLS)	24"	24"

MRC BASIN

NOT TO SCALE



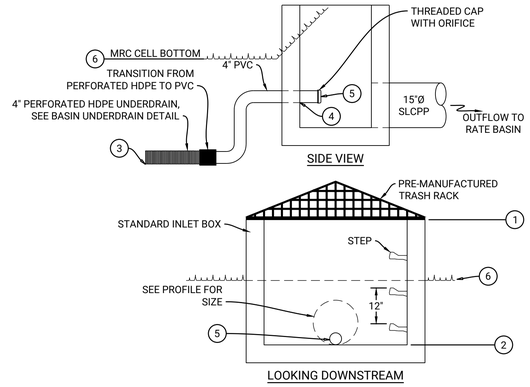
OUTLET No.	PIPE Ø Pd (IN)	RIPRAP		APRON		
		SIZE R-#	THICK Rt (IN)	LENGTH Al (FT)	INITIAL WIDTH Aiw (FT)	TERMINAL WIDTH Atw (FT)
FES Z1-1.1	18	R-3	9	8	4.5	12.5
FES Z1-1.3	30	R-4	18	16	7.5	23.5
FES Z1-1.4	18	R-3	9	8	4.5	12.5
FES Z1-1.6	18	R-3	9	8	4.5	12.5
FES Z1-1.8	24	R-4	18	12	6	18
FES Z2-1.1	18	R-3	9	8	4.5	12.5
FES Z2-1.3	18	R-3	9	8	4.5	12.5
FES Z2-1.5	24	R-4	18	12	6	18
FES Z2-1.6	18	R-3	9	8	4.5	12.5
FES Z2-1.8	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



OS KEY	OUTLET STRUCTURE FEATURE		
		BASIN Z1	BASIN Z2
1	TOP OF STRUCTURE	447.00	449.00
2	INVERT OUT	440.83	442.83
3	BASIN UNDERDRAIN INVERT	443.00	445.00
4	BASIN UNDERDRAIN INVERT IN	444.00	446.00
5	ORIFICE DIAMETER	1.1"	0.8"
6	MRC CELL BOTTOM	445.00	447.00

MRC CELL OUTLET STRUCTURE

NOT TO SCALE

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

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PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

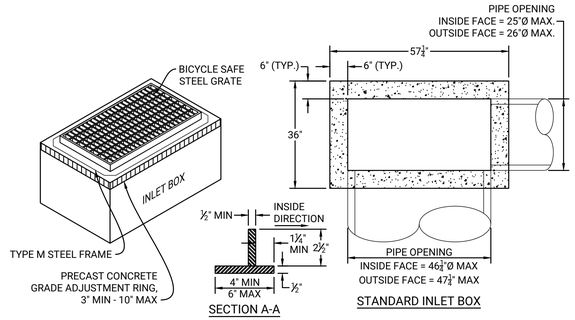
1660 INTERNATIONAL DRIVE MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

CIVIL DETAILS

SHEET NO.

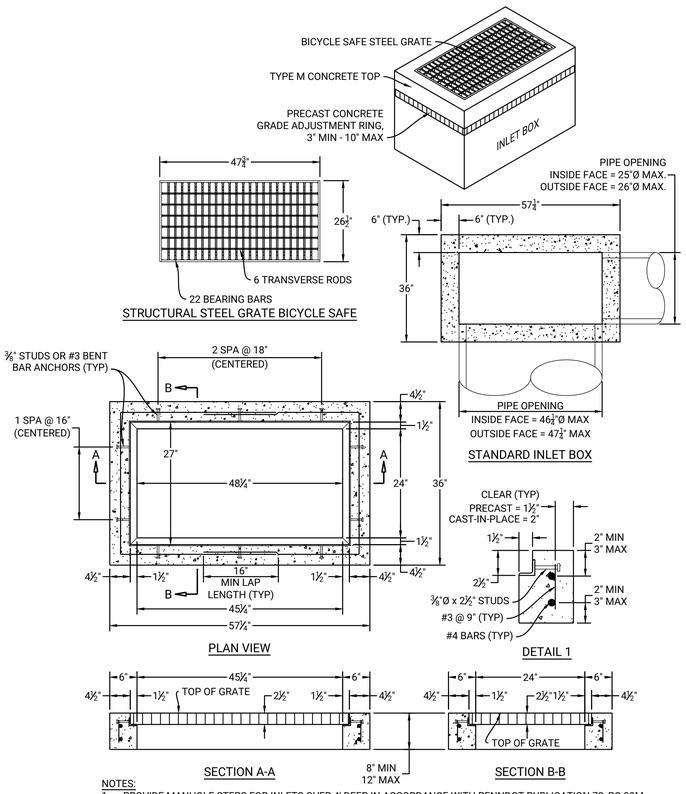
C1C 803



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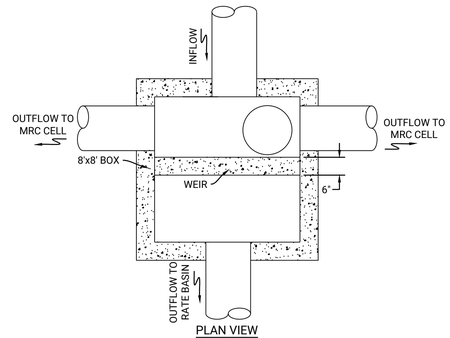
3. REFERENCE PENNDOT PUBLICATION 72, RC-46M, FOR ADDITIONAL DETAILS ON THE STANDARD INLET BOX.

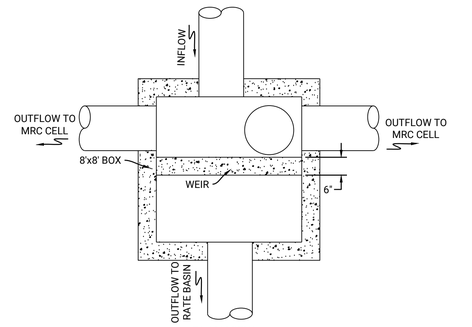
STANDARD INLET BOX - TYPE M CONCRETE TOP

NOT TO SCALE



BASIN Z1 FLOW SPLITTER STRUCTURE [FS-Z1-1.1]

NOT TO SCALE



BASIN Z2 FLOW SPLITTER STRUCTURE [FS-Z2-1.1]

NOT TO SCALE

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)
PHASE 1C

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

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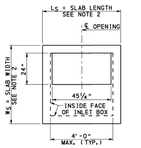
PHONE: (703) 234-3056

SHEET TITLE

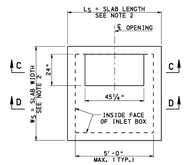
CIVIL DETAILS

SHEET NO.

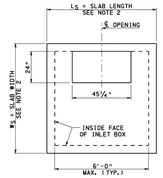
C1C 804



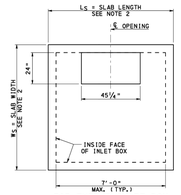
FOR TYPE 4 INLET BOX



FOR TYPE 5 INLET BOX



FOR TYPE 6 INLET BOX



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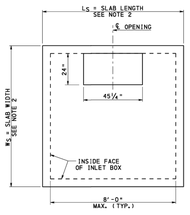
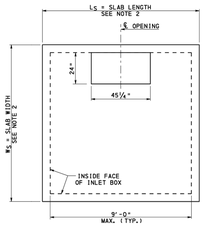
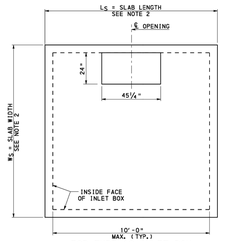


FOR TYPE 8 INLET BOX



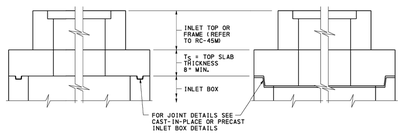
FOR TYPE 9 INLET BOX



FOR TYPE 10 INLET BOX

PLAN - TOP SLABS

(WITH STANDARD OPENING)



TOP SLAB WITH KEYED JOINT

TOP SLAB WITH SHIPLAP JOINT (PRECAST ONLY)

SECTION C-C

(TYPICAL)

NOTE: GRADE ADJUSTMENT RINGS NOT SHOWN

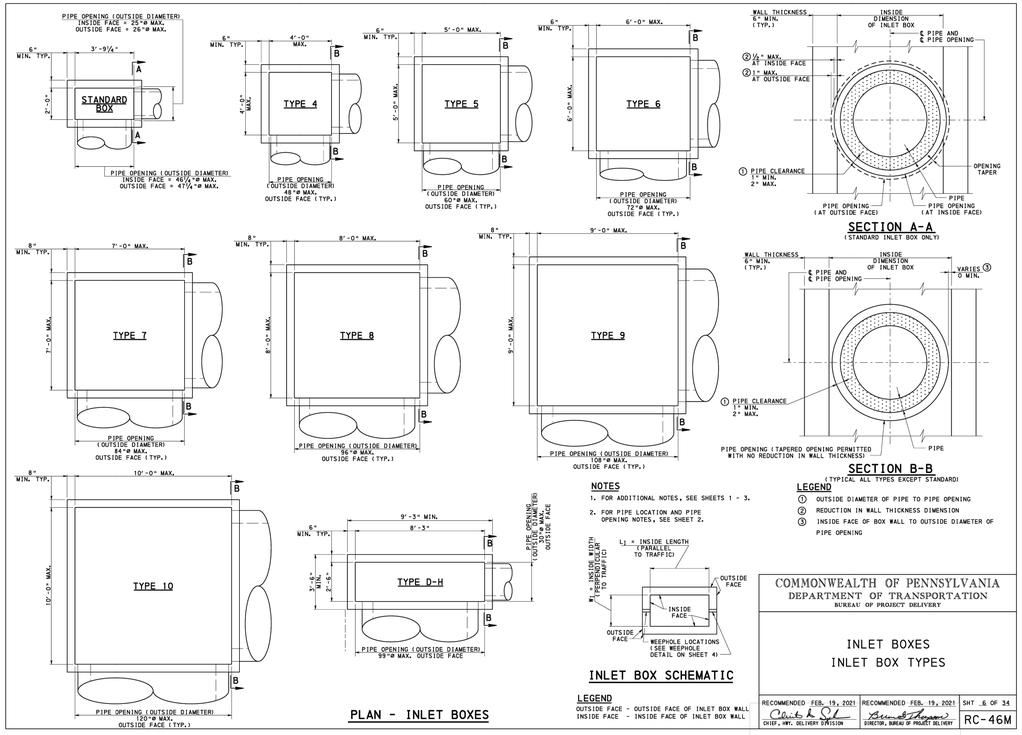
NOTES:

1. FOR ADDITIONAL NOTES, SEE SHEETS 1 - 3.
2. OUT TO OUT DIMENSIONS OF TOP SLABS TO MATCH SIZE OF INLET BOX.
3. SET EDGE OF OPENING AT INSIDE FACE OF INLET BOX FOR ACCESS, IF POSSIBLE.
4. FOR SECTION D-D AND REINFORCEMENT REQUIREMENTS, SEE SHEET 8.
5. FOR ADDITIONAL REINFORCEMENT AROUND OPENINGS, SEE SHEETS 9 & 10.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

INLET BOXES
TOP SLABS - 1

RECOMMENDED FEB. 19, 2021	RECOMMENDED FEB. 19, 2021	SHT 7 OF 34
CHIEF, HWY. DELIVERY DIVISION	DIRECTOR, BUREAU OF PROJECT DELIVERY	RC-46M



PLAN - INLET BOXES

NOTES

1. FOR ADDITIONAL NOTES, SEE SHEETS 1 - 3.
2. FOR PIPE LOCATION AND PIPE OPENING NOTES, SEE SHEET 2.

INLET BOX SCHEMATIC

LEGEND

OUTSIDE FACE - OUTSIDE FACE OF INLET BOX WALL
INSIDE FACE - INSIDE FACE OF INLET BOX WALL

SECTION A-A

(STANDARD INLET BOX ONLY)

SECTION B-B

(TYPICAL ALL TYPES EXCEPT STANDARD)

LEGEND

① OUTSIDE DIAMETER OF PIPE TO PIPE OPENING
② REDUCTION IN WALL THICKNESS DIMENSION
③ INSIDE FACE OF BOX WALL TO OUTSIDE DIAMETER OF PIPE OPENING

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

INLET BOXES
INLET BOX TYPES

RECOMMENDED FEB. 19, 2021	RECOMMENDED FEB. 19, 2021	SHT 8 OF 34
CHIEF, HWY. DELIVERY DIVISION	DIRECTOR, BUREAU OF PROJECT DELIVERY	RC-46M

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

ISSUE / REVISIONS

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PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

CIVIL DETAILS

SHEET NO.

C1C 805

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 BASINS Z1 AND Z2 - SEE PLAN SHEET C1C 301 TO C1C 304 AND DETAIL SHEET C1C 801 TO C1C 805

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 C001 AND C002.

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

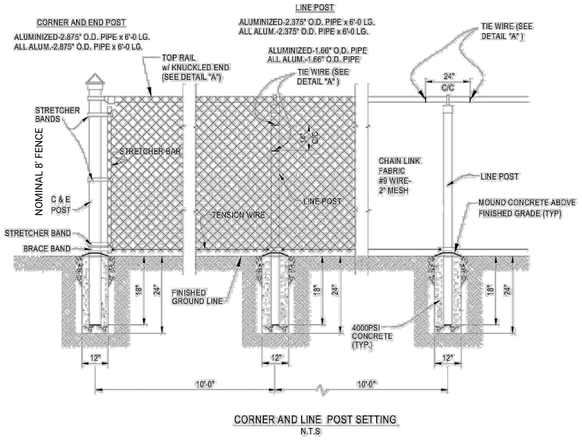
AN OPERATION AND MAINTENANCE AGREEMENT MUST BE EXECUTED BETWEEN THE RESPONSIBLE PARTY (LISTED ABOVE) AND MIDDLESEX TOWNSHIP CONSISTENT WITH THE EXAMPLE AGREEMENT FOUND IN APPENDIX B OF THE MIDDLESEX TOWNSHIP STORMWATER MANAGEMENT ORDINANCE 6-2011 AS AMENDED.

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

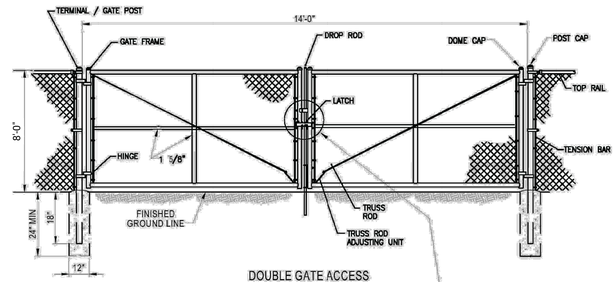
UPON COMPLETION OF CONSTRUCTION OF ALL BMPS, RECORD (AS-BUILT) DRAWINGS SHALL BE PREPARED AS REQUIRED BY SUBDIVISION AND LAND DEVELOPMENT ORDINANCE SECTION 1409 ORDINANCE 8-2017) AND STORMWATER MANAGEMENT ORDINANCE ARTICLE V SECTION 501.C (ORD. 6-2011 AS AMENDED) WHICH MUST INCLUDE BMPS IN THEIR AS-BUILT 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.



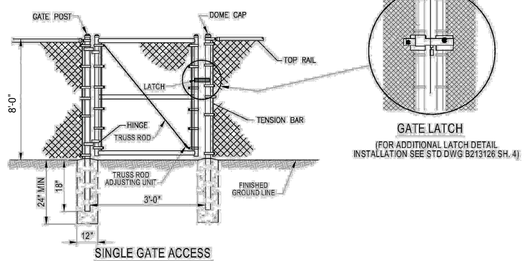
CORNER AND LINE POST SETTING
N.T.S



DETAIL "A"
KNUCKLED FENCE TOP AND TIE DOWN



DOUBLE GATE ACCESS



GATE LATCH
(FOR ADDITIONAL LATCH DETAIL INSTALLATION SEE STD DWG 9213126 SH. 4)

SINGLE GATE ACCESS

NOTES:
1. ADD MESH PRIVACY SCREEN TO FENCES.

CHAIN-LINK FENCE AND GATE DETAILS

NOT TO SCALE

REV	DATE	COMMENTS	BY	CHKD
1	05/22/2026	REVISIONS PER ENGINEER CMTS	RJB	JHR

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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1) PHASE 1C

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

CARLISLE DEVELOPMENT PARTNERS, LLC

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

SHEET TITLE

OPERATIONS & MAINTENANCE PLAN

SHEET NO.

C1C 806

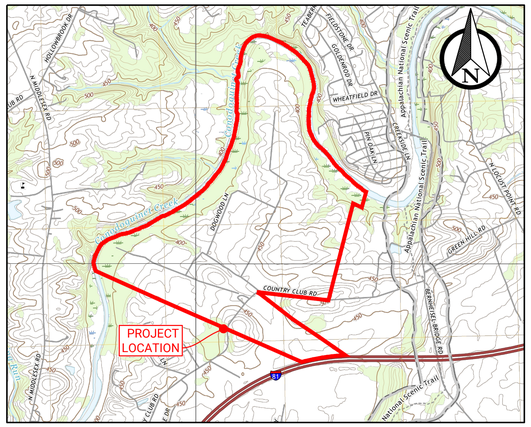
EROSION AND SEDIMENTATION CONTROL PLAN
FOR
PENNSYLVANIA DIGITAL 1 (PAX-1) - PHASE 1C
MIDDLESEX TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

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 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

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:
   PROJECT BOLT 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 CAMPUSES, A PPL SUBSTATION, 3 CUSTOMER SUBSTATIONS, A NEW PROPOSED PRIVATE STREET WITH PUBLIC ACCESS ROAD "PA DATA DRIVE" IS PROPOSED.
   THE INTENT OF THIS PLAN IS TO SHARE THE BROADER VISION FOR THE FULL BUILD OUT OF THE PROJECT. THIS PLAN PROVIDES CONCEPTUAL DETAIL ON ACCESS ROADS, UTILITY INFRASTRUCTURE, PRELIMINARY STORMWATER LOCATION AND SIZING AS WELL AS OVERALL CAMPUS CONFIGURATIONS, AND PRELIMINARY LOT CONFIGURATIONS. THIS SET ALSO DEMONSTRATES THE PHASES OF PERMITTING AND CONSTRUCTION WHICH ARE ANTICIPATED FOR ADVANCEMENT OF THE DEVELOPMENT.
5. SOURCE OF TITLE:
   * CARLISLE DEVELOPMENT PARTNERS, LLC
   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.
9. NO PERMANENT LIGHTING IS PROPOSED AS PART OF THIS PLAN.

PAGE NUMBER

1
2
3
4
5-8
9-10
11-12

REV	DATE	COMMENTS	BY	CHKD
2	05/22/2026	PHASE 1C E&S PLANS	CDB	DAH
1	04/16/2026	PHASE 1C E&S PLANS	CDB	DAH

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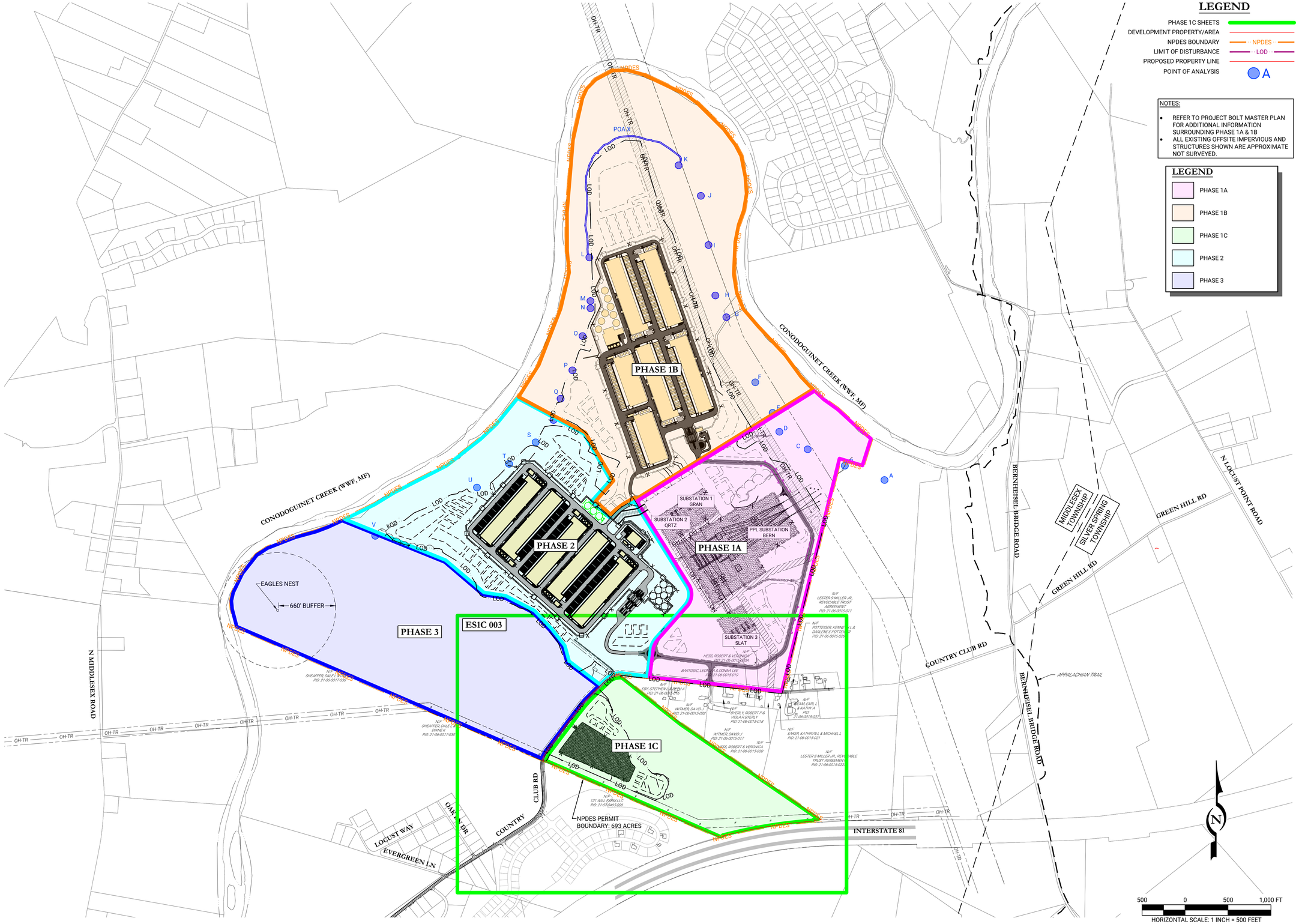
PROJECT
PENNSYLVANIA DIGITAL 1 (PAX-1)

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.
ES1C 001



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PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

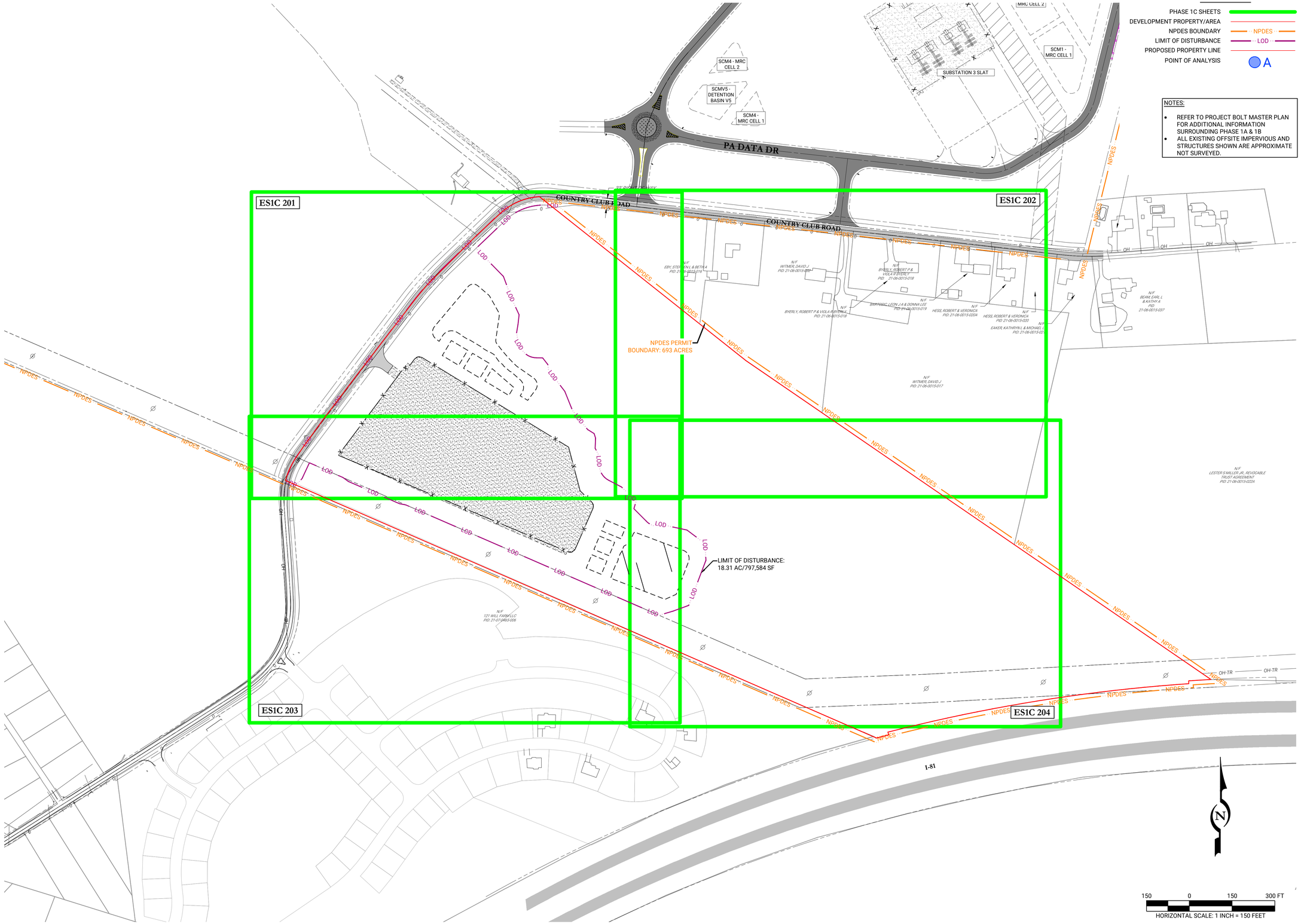
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

PHASING PLAN

SHEET NO.

ES1C 002



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MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

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PHONE: (703) 234-3056

SHEET TITLE

PERMIT BOUNDARY & KEYMAP

SHEET NO.

ES1C 003



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SHEET TITLE

EXISTING CONDITIONS AND DEMO PLAN

SHEET NO.

ES1C 101

LEGEND

- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- GRAVEL
- 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
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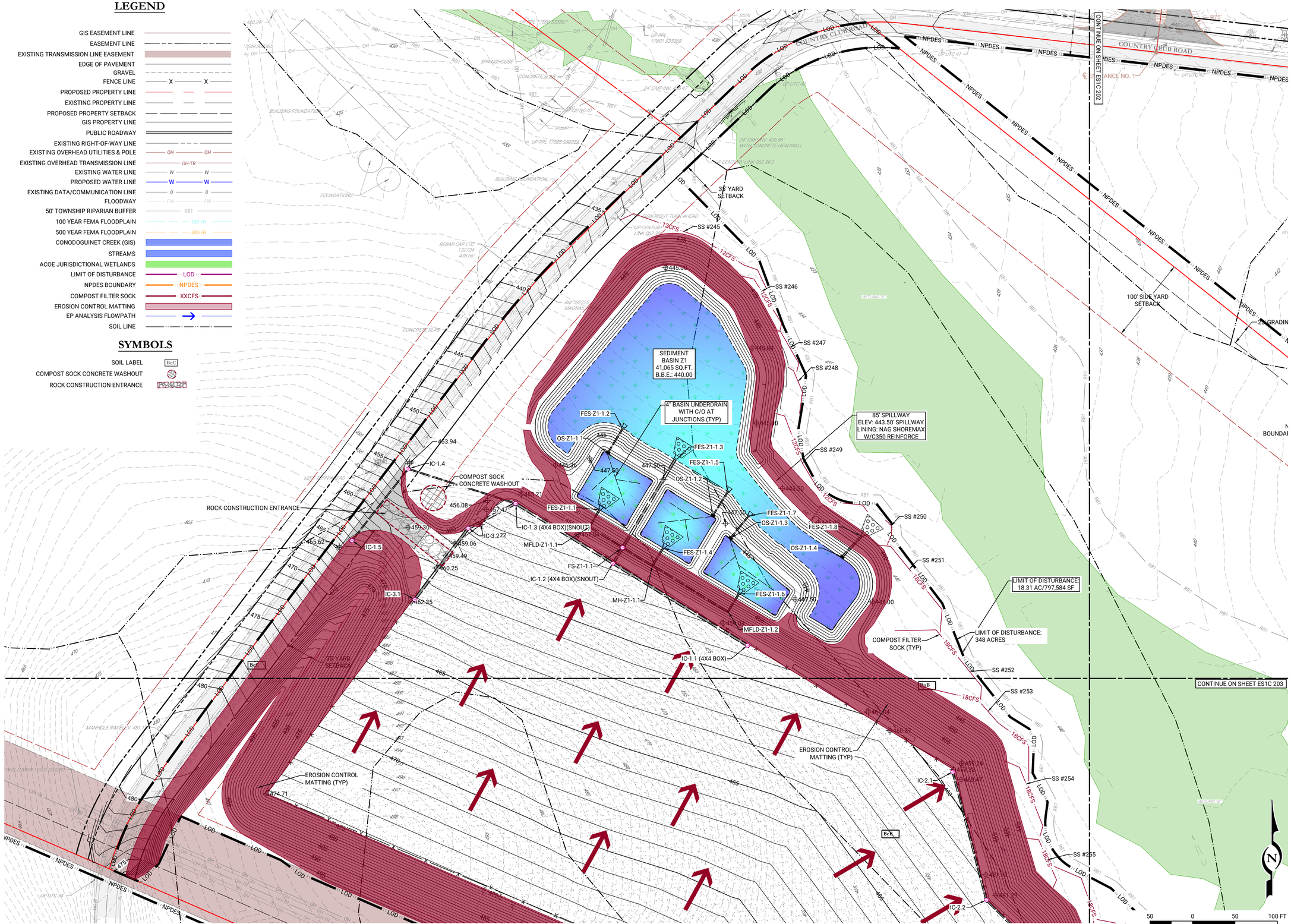
- COMPOST FILTER SOCK
- EROSION CONTROL MATTING
- EP ANALYSIS FLOWPATH
- SOIL LINE

SYMBOLS

- SOIL LABEL
- COMPOST SOCK CONCRETE WASHOUT
- ROCK CONSTRUCTION ENTRANCE



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2	05/22/2026	PHASE 1C E&S PLANS	CDB	DAH
1	04/16/2026	PHASE 1C E&S PLANS	CDB	DAH

ISSUE / REVISIONS

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DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)

MIDDLESEX TOWNSHIP
CUMBERLAND COUNTY
PENNSYLVANIA

CLIENT

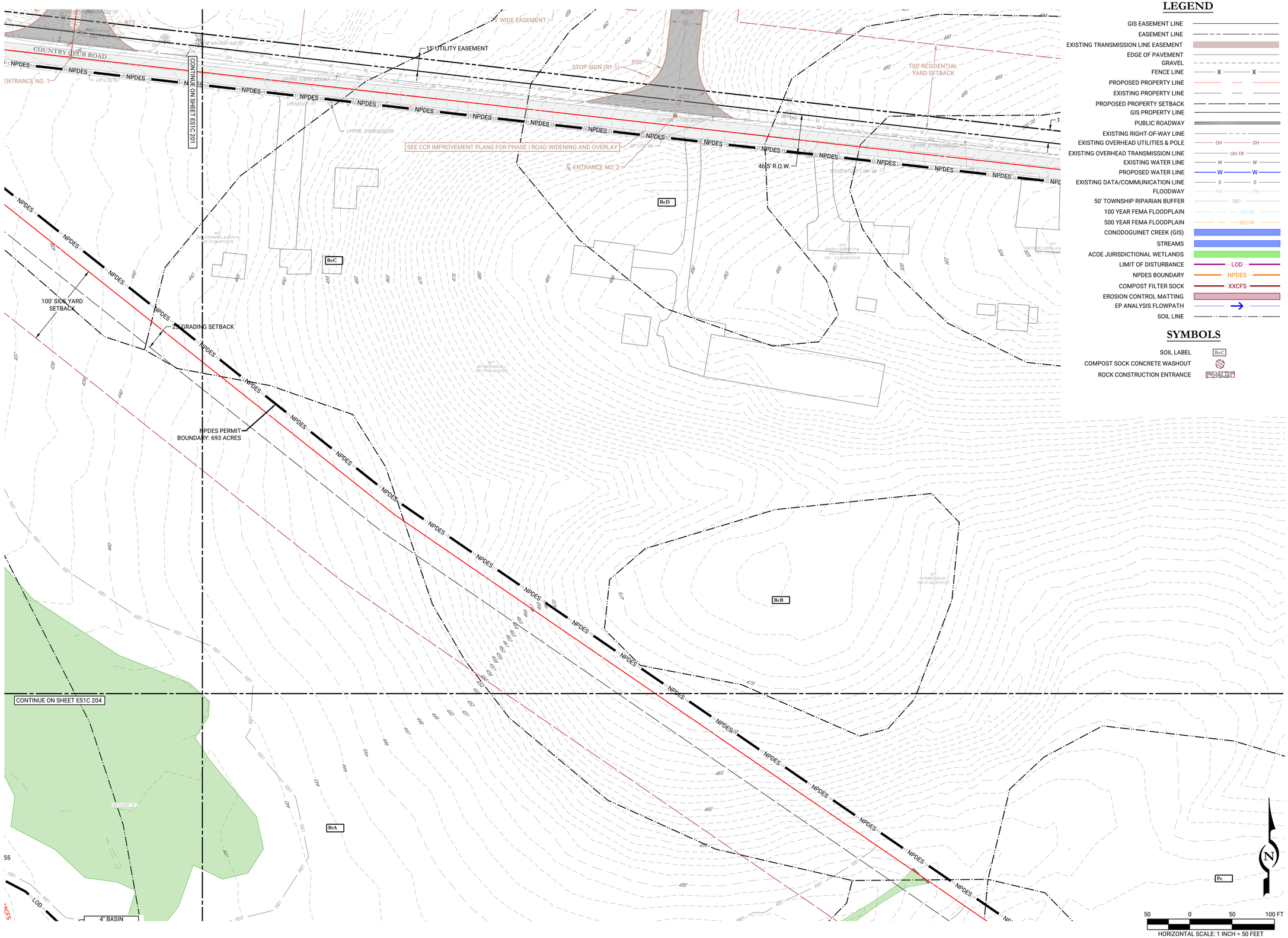
CARLISLE DEVELOPMENT PARTNERS, LLC
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

E&S PLANS

SHEET NO.

ES1C 201



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- GIS EASEMENT LINE
- EASEMENT LINE
- EXISTING TRANSMISSION LINE EASEMENT
- EDGE OF PAVEMENT
- GRAVEL
- FENCE LINE
- PROPOSED PROPERTY LINE
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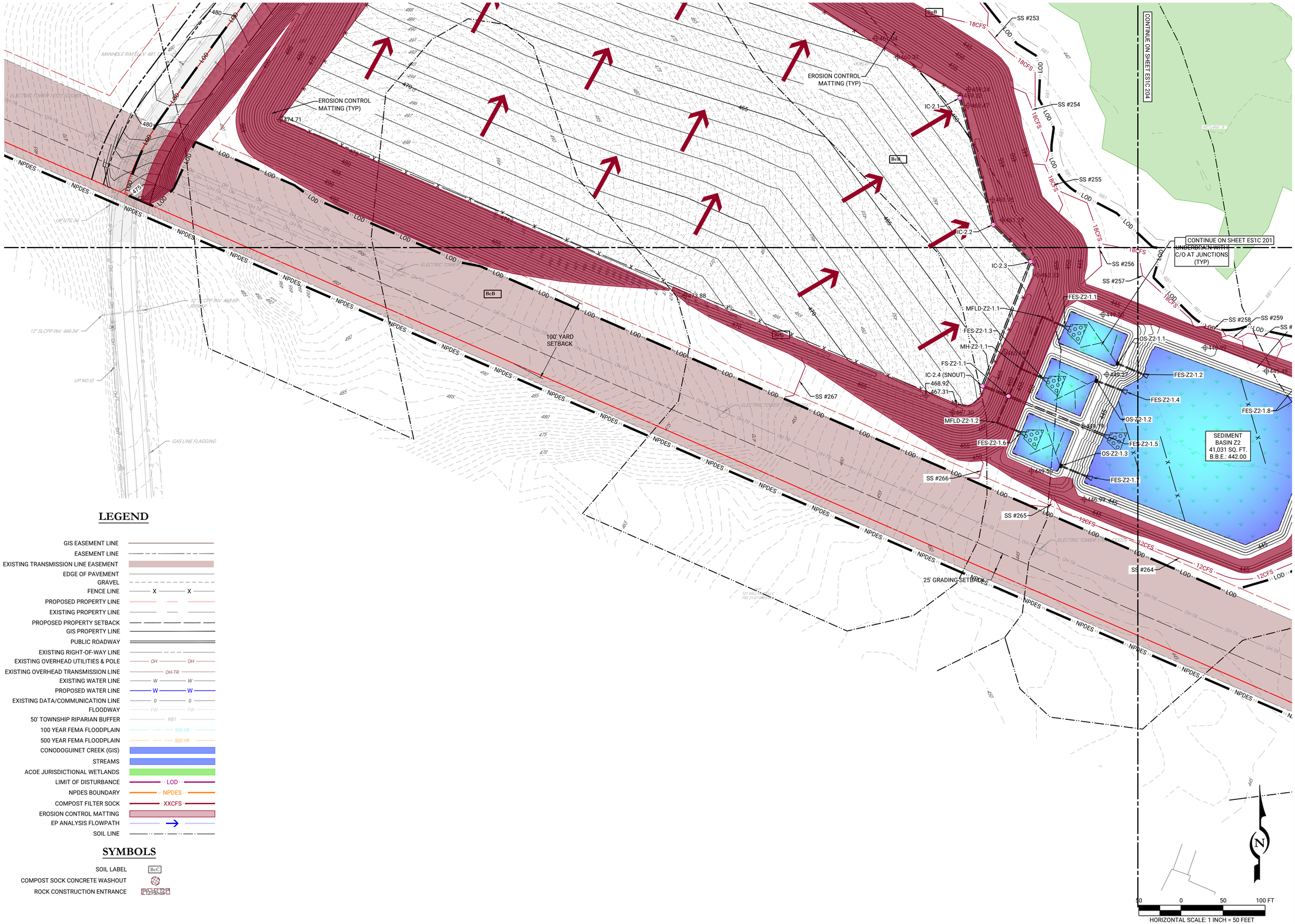

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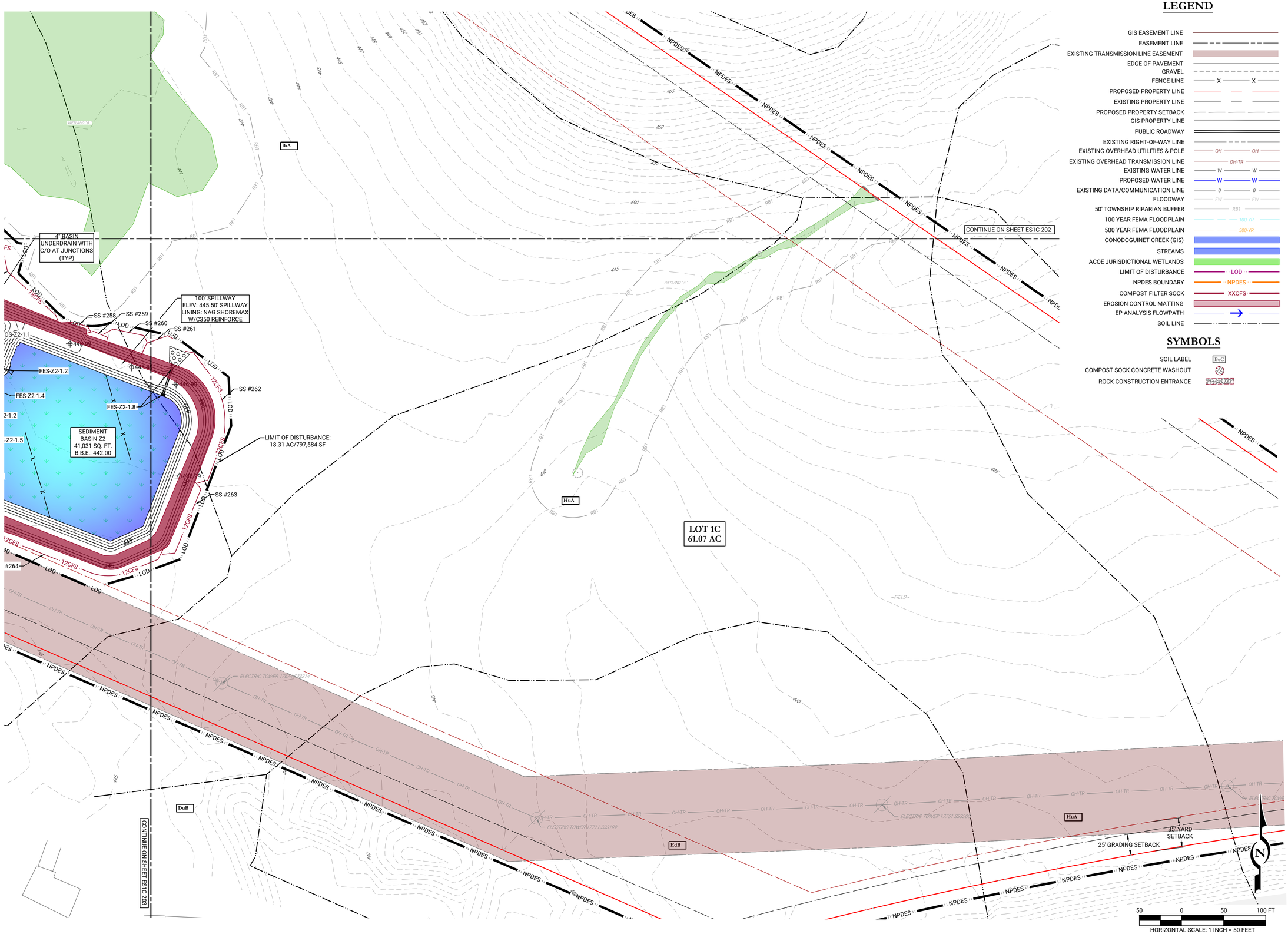

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UTILITY LINE TRENCH EXCAVATION

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 40 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 (>0.25 INCHES OF PRECIPITATION WITHIN 24 HOURS OF A SNOWMELT SUFFICIENT TO CAUSE A DISCHARGE), 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
- VEGETATED CHANNEL

GENERAL MAINTENANCE:

- E&S BMPs SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT (> 0.25 INCHES). 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 PHASE 1C, THERMAL IMPACTS HAVE BEEN REDUCED BY DIRECTING ALL EARTH DISTURBANCE RUNOFF TO THE PROPOSED COMPOST FILTER SOCK AND SEDIMENT BASINS. THE SEDIMENT BASINS WILL ALLOW THE RUNOFF TO COOL DUE TO BEING DETAINED WITHIN THE SEDIMENT BASINS BEFORE BEING DISCHARGED OFFSITE. THE COMPOST FILTER SOCKS WILL SLOW THE WATER AND COLLECT SEDIMENT IN THESE VEGETATED AREAS PRIOR TO DISCHARGING OFFSITE.

RIPARIAN FOREST BUFFERS

NO PADEP RIPARIAN BUFFERS ARE LOCATED WITHIN THE PROJECT LOCATION.

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 MANAGED RELEASE CONCEPT (MRC) AND INFILTRATION BASINS ON THE PROJECT SITE. THE BASINS 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 BASINS.

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 CONODOGUINET CREEK (WWF-MF). THE RUNOFF PEAK RATES SHOWN HAVE BEEN REDUCED, BENEFITING THE DOWNSTREAM AREAS.

THE USE OF HEAVY EQUIPMENT SHOULD BE AVOIDED ON AREAS THAT WILL BE UTILIZED FOR INFILTRATION. IN ADDITION, EXCESSIVE COMPACTION DURING FINAL GRADING OPERATIONS SHOULD BE MINIMIZED. IN THE AREA OF THE INFILTRATION AND MRC BASINS, 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.

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 660 FEET FROM THE NEST, WITH ALL WORK, EXCEPT GRADING OF ONE STORMWATER BASIN, OCCURRING OUTSIDE OF THE 330-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.

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

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 ~18.31 ACRE PROJECT AREA FOR PHASE 1C GENERALLY SLOPES FROM THE SOUTH TO THE NORTH.

THE EXISTING PROJECT SITE IS BOUNDED TO THE NORTH BY LAND NOW OR FORMERLY OWNED BY STEPHEN AND BETH EBY, TO THE SOUTH BY LAND NOW OR FORMERLY OWNED BY 121 WILL FARM, LLC, TO THE EAST BY LAND NOW OR FORMERLY OWNED BY LESTER S. MILLER JR., REVOCABLE TRUST AGREEMENT AND TO THE WEST BY LAND OWNED BY CARLISLE DEVELOPMENT PARTNERS LLC. EXISTING CONTOURS AND LAND FEATURES, AS WELL AS THE PROPOSED FEATURES, ARE SHOWN ON THE PLAN DRAWINGS.

REV	DATE	COMMENTS	BY
2	05/22/2026	PHASE 1C E&S PLANS	CDB
1	04/16/2026	PHASE 1C E&S PLANS	CDB

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PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

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

SHEET TITLE

NOTES

SHEET NO.

ES1C 301

STANDARD EROSION & SEDIMENT CONTROL NOTES

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THIS SITE.
11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS.
14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM THE PROJECT SITE ONTO A PUBLIC ROADWAY. VEHICLES AND EQUIPMENT MAY ONLY ENTER AND EXIT THE CONSTRUCTION SITE VIA A STABILIZED ROCK CONSTRUCTION ENTRANCE.
15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT (>0.25 INCHES) AND ON A WEEKLY BASIS. THE OPERATOR WILL MAINTAIN AND MAKE AVAILABLE TO THE COUNTY CONSERVATION DISTRICT COMPLETE, WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
16. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
18. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.
19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
26. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
27. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR OTHER PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
28. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR MOTHER MOVEMENTS.
29. EROSION AND SEDIMENT BMPS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
32. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.

STANDARD EROSION & SEDIMENT CONTROL NOTES [cont'd]

33. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO $10,000 PER DAY IN CIVIL PENALTIES, UP TO $10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO $25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
34. IN THE EVENT OF SINKHOLE DISCOVERY A PROFESSIONAL GEOLOGIST OR ENGINEER WILL BE CONTACTED CONCERNING MITIGATION. ADDITIONALLY, THE COUNTY CONSERVATION DISTRICT WILL BE MADE AWARE OF THE SINKHOLE DISCOVERY IMMEDIATELY.
35. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.
36. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.
37. THE E&S CONTROL PLAN MAPPING MUST DISPLAY A PA ONE CALL SYSTEM INCORPORATED SYMBOL INCLUDING THE SITE IDENTIFICATION NUMBER. (THIS IS A NUMBERED SYMBOL NOT A NOTE.)
38. AT STREAM CROSSINGS, 50' BUFFER AREAS SHOULD BE MAINTAINED. ON BUFFERS, CLEARING, SOD DISTURBANCES, EXCAVATION, AND EQUIPMENT TRAFFIC SHOULD BE MINIMIZED. ACTIVITIES SUCH AS STACKING LOGS, BURNING CLEARED BRUSH, DISCHARGING RAINWATER FROM TRENCHES, WELDING PIPE SECTIONS, REFUELING AND MAINTAINING EQUIPMENT SHOULD BE ACCOMPLISHED OUTSIDE OF BUFFERS.
39. ALL WETLANDS MUST BE DELINEATED AND PROTECTED WITH ORANGE SAFETY FENCE PRIOR TO ANY EARTHMOVING ACTIVITY.
40. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.
41. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
42. ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.
43. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
44. CHANNELS HAVING RIPRAP, RENO MATTRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING.
45. SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS.
46. SEDIMENT BASINS SHALL BE PROTECTED FROM UNAUTHORIZED ACTS BY THIRD PARTIES.
47. BAFFLES MUST BE INSTALLED TO ALLOW BASIN MAINTENANCE AND CLEAN OUT.
48. ANY DAMAGE THAT OCCURS IN WHOLE OR IN PART AS A RESULT OF BASIN OR TRAP DISCHARGE SHALL BE IMMEDIATELY REPAIRED BY THE PERMITTEE IN A PERMANENT MANNER SATISFACTORY TO THE MUNICIPALITY, LOCAL CONSERVATION DISTRICT, AND THE OWNER OF THE DAMAGED PROPERTY.
49. UPON REQUEST, THE APPLICANT OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD DRAWING) FOR ANY SEDIMENT BASIN OR TRAP TO THE MUNICIPAL INSPECTOR, LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
50. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER, WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
51. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM EIGHT (8) LAYERED LIFTS AT NINETY FIVE PERCENT (95%) MODIFIED PROCTOR DENSITY.
52. 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, 0 TO 3 PERCENT SLOPES
    - EDOM SILTY CLAY LOAM (EdC), 8 TO 15 PERCENT SLOPES
    - MONONGAHELA SILT LOAM (MnB), 3 TO 8 PERCENT SLOPES
    - WEIKERT VERY CHANNERY SILT LOAM (WeD), 15 TO 25 PERCENT SLOPES
53. THE PROJECT SITE DRAINS INTO THE CONODOGUINET CREEK (WWF, MF) WHICH HAS BEEN CLASSIFIED BY TITLE 25, CHAPTER 93, OF THE PENNSYLVANIA CODE.
54. STREAM CLASSIFICATION RESTRICTIONS:
    A. FOR STOCKED TROUT STREAMS: NO IN-STREAM ACTIVITY WITHIN 50 FEET OF THE STREAM OTHER THAN BORING SHALL OCCUR BETWEEN MARCH 1 AND JUNE 15.
    B. FOR WILD TROUT STREAMS: NO IN-STREAM ACTIVITY WITHIN 50 FEET OF THE STREAM OTHER THAN BORING SHALL OCCUR BETWEEN OCTOBER 1 AND DECEMBER 31.

EROSION & SEDIMENT CONTROL PLANNING & DESIGN

THE EROSION & SEDIMENT CONTROL PLAN HAS BEEN DEVELOPED AND INTENDED TO MINIMIZE THE EXTENT AND DURATION OF THE EARTH DISTURBANCE OCCURRING ON THE PROJECT SITE. IN ORDER TO MINIMIZE THE DURATION, THE SITE-SPECIFIC CONSTRUCTION SEQUENCE SHOULD BE FOLLOWED AS APPROVED BY THE COUNTY CONSERVATION DISTRICT. THE EXTENT OF DISTURBANCE WAS ALSO MINIMIZED BY THE PURCHASE OF AN APPROPRIATELY SIZED LOT FOR THE PROPOSED USE. GRADING HAS ALSO BEEN REDUCED TO THE STEEPEST SLOPES, WHILE STILL BEING DEEMED MOWABLE, TO FURTHER MINIMIZE THE LIMIT OF DISTURBANCE. EROSION CONTROL MATTING HAS BEEN ADDED WHERE REQUIRED, WHILE OTHER PORTIONS OF THE SITE WILL BE SODDED (SEE PLAN FOR LOCATIONS). THE PLAN HAS BEEN DEVELOPED WITH THE BEST INTENTIONS TO UTILIZE EXISTING DOWNSTREAM DRAINAGE PATHS AND FEATURES.

ALL RUNOFF FROM THE PROJECT SITE WILL BE FILTERED WITH COMPOST FILTER SOCK.

THE USE OF HEAVY EQUIPMENT SHOULD BE AVOIDED ON AREAS THAT WILL BE UTILIZED FOR INFILTRATION. IN THESE AREAS, THE BUCKET TEETH SHOULD BE UTILIZED FOR THE FINAL SIX (6") INCHES OF EXCAVATION TO ELIMINATE OVER COMPACTING AND SEALING THE SUBGRADE. EXCESSIVE COMPACTION SHOULD BE AVOIDED DURING THE PLACEMENT OF TOPSOIL AND SEEDING AND MULCHING OPERATIONS TO HELP ENSURE INFILTRATION THROUGHOUT THE ENTIRE PROJECT SITE.

REV	DATE	COMMENTS	BY	CHKD
2	05/22/2026	PHASE 1C E&S PLANS	CDB	DAH
1	04/16/2026	PHASE 1C E&S PLANS	CDB	DAH

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PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

CLIENT

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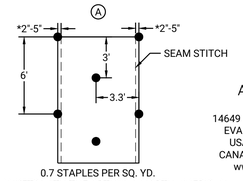
1660 INTERNATIONAL DRIVE
MCLEAN, VA 22102
PHONE: (703) 234-3056

SHEET TITLE

NOTES

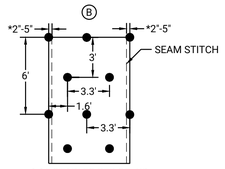
SHEET NO.

ES1C 302

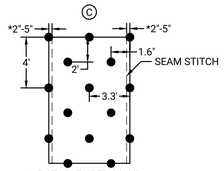


0.7 STAPLES PER SQ. YD.
FOR BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES/STAKES THROUGH EACH OF THE BLUE COLORED DOTS

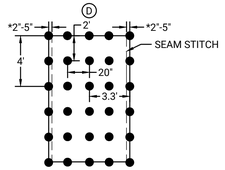
NORTH AMERICAN GREEN
14649 HIGHWAY 41 NORTH
EVANSVILLE, IN 47725
USA 1-800-772-2040
CANADA 1-800-448-2040
www.nagreen.com



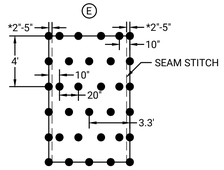
1.15 STAPLES PER SQ. YD.
FOR BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES/STAKES THROUGH EACH OF THE RED COLORED DOTS



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

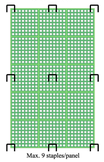


3.4 STAPLES PER SQ. YD.
FOR BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES/STAKES THROUGH EACH OF THE WHITE COLORED DOTS

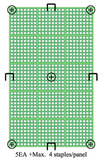


3.75 STAPLES PER SQ. YD.
FOR BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN DOT SYSTEM™ PLACE STAPLES/STAKES THROUGH EACH OF THE YELLOW COLORED DOTS

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

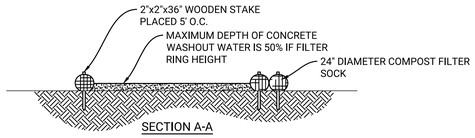


ANCHOR PATTERNS FOR USE WITH WIRE/REBAR STAPLES

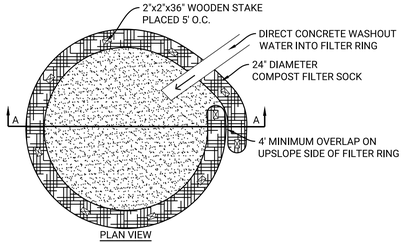


ANCHOR PATTERNS FOR USE WITH COMBINATION OF EARTH ANCHORS AND STAPLES

STAPLE PATTERN GUIDE
NOT TO SCALE



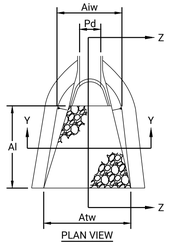
SECTION A-A



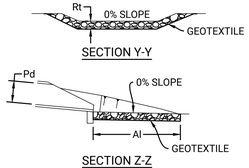
PLAN VIEW

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



PLAN VIEW



SECTION Z-Z

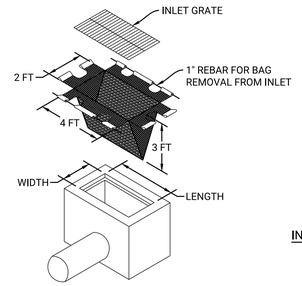
SECTION Y-Y

OUTLET No.	PIPE Ø Pd (IN)	RIPRAP SIZE R-?	RIPRAP THICK Rt (IN)	APRON LENGTH Al (FT)	APRON INITIAL WIDTH Aiw (FT)	APRON TERMINAL WIDTH Atw (FT)
FES Z1-1.1	18	R-3	9	8	4.5	12.5
FES Z1-1.3	30	R-4	18	16	7.5	23.5
FES Z1-1.4	18	R-3	9	8	4.5	12.5
FES Z1-1.6	18	R-3	9	8	4.5	12.5
FES Z1-1.8	24	R-4	18	12	6	18
FES Z2-1.1	18	R-3	9	8	4.5	12.5
FES Z2-1.3	18	R-3	9	8	4.5	12.5
FES Z2-1.5	24	R-4	18	12	6	18
FES Z2-1.6	18	R-3	9	8	4.5	12.5
FES Z2-1.8	24	R-4	18	12	6	18

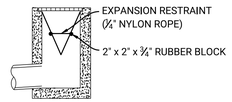
NOTES:
ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.

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

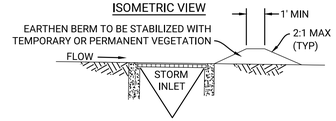
RIPRAP APRON AT PIPE OUTLET W/FLARED END SECTION STANDARD CONSTRUCTION DETAIL 9-1
NOT TO SCALE



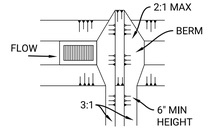
ISOMETRIC VIEW



INSTALLATION DETAIL



SECTION VIEW



PLAN VIEW

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

REV	DATE	COMMENTS	BY	CHKD
2	05/22/2026	PHASE 1C E&S PLANS	CDB	DAH
1	04/16/2026	PHASE 1C E&S PLANS	CDB	DAH

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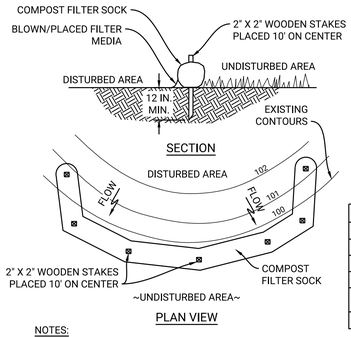
PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT
PENNSYLVANIA DIGITAL 1 (PAX-1)
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.
ES1C 303



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.

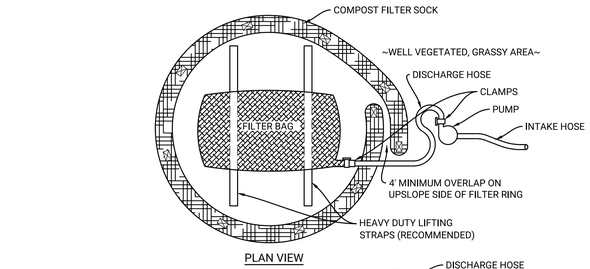
BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

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.

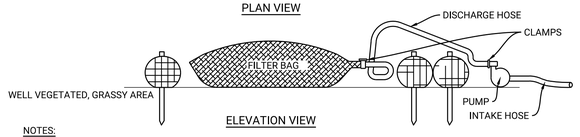
TABLE 4.1 COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS					
MATERIAL TYPE	3 mil HDPE	5 mil HDPE	5 mil HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	BIO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK 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 % ORGINAL 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



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.

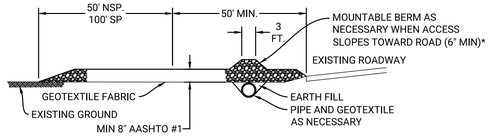
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

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.

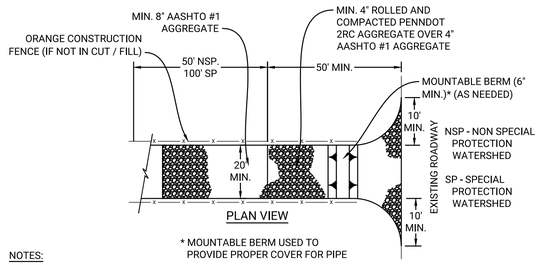
FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

PUMPED WATER FILTER BAG (SCD #3-16)

NOT TO SCALE



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.

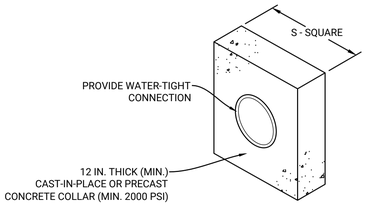
RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

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



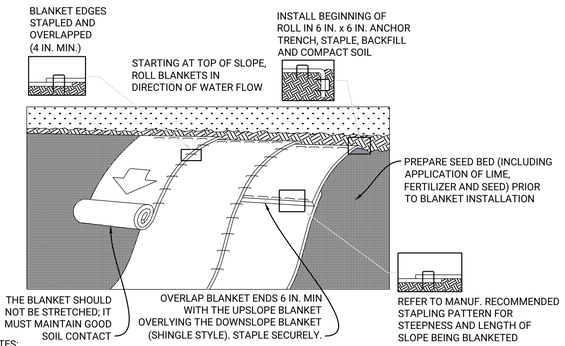
BASIN OR TRAP NO.	PIPE SIZE (IN)	S (IN)	NO. OF COLLARS
Z1	24	39	2
Z2	24	42	1

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

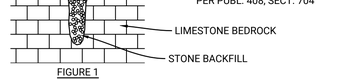


FIGURE 1

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.

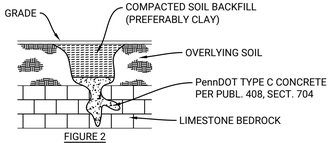


FIGURE 2

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

REV	DATE	COMMENTS	BY	CHKD
2	05/22/2026	PHASE 1C E&S PLANS	CDB	DAH
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PROJECT No:	1258-01
DATE:	APRIL 17, 2026
SCALE:	AS SHOWN
DRAWN BY: RJB	CHECKED BY: JHR

PROJECT

PENNSYLVANIA DIGITAL 1 (PAX-1)

MIDDLESEX TOWNSHIP CUMBERLAND COUNTY PENNSYLVANIA

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SHEET TITLE

DETAILS

SHEET NO.

ES1C 303