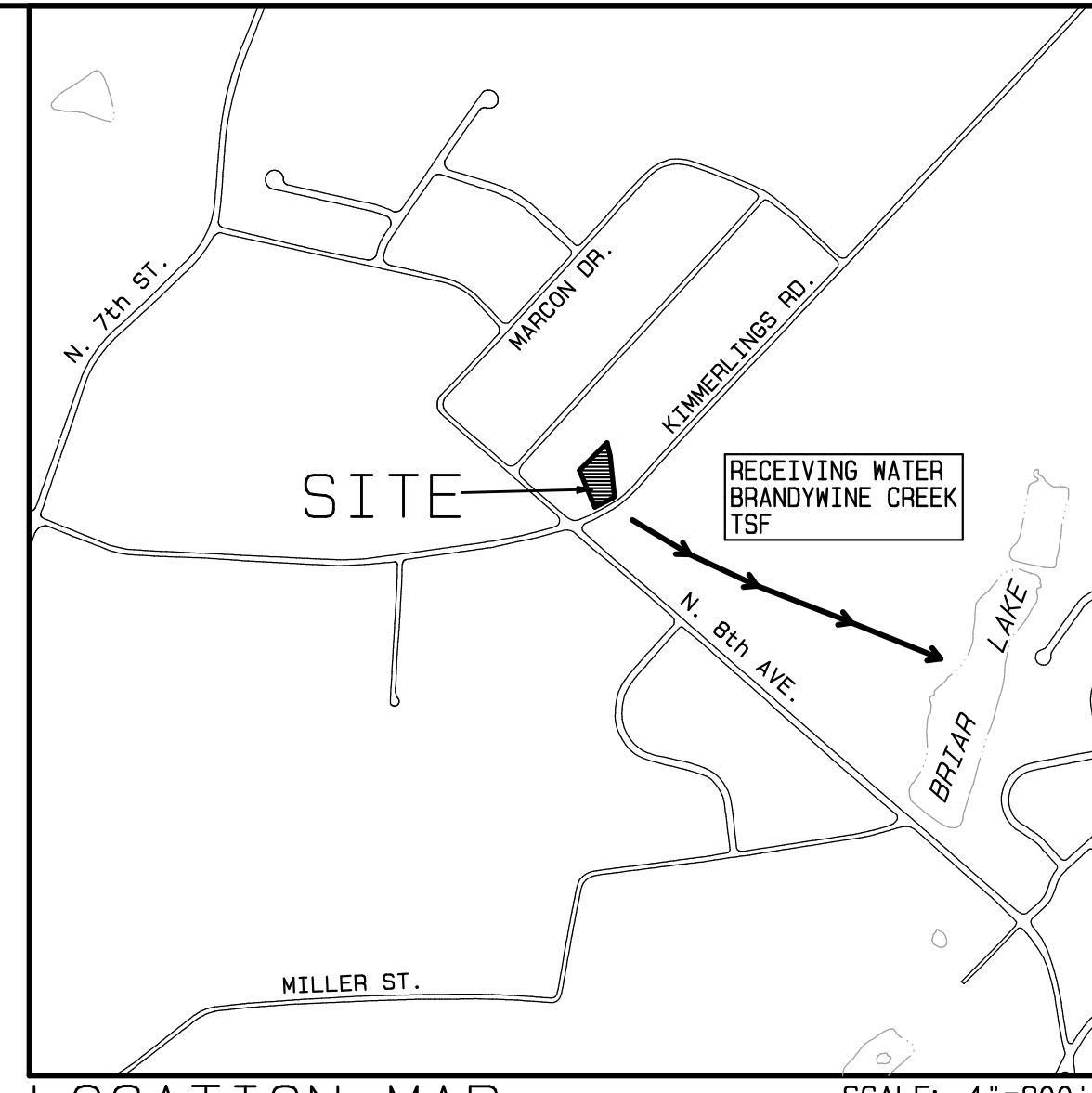
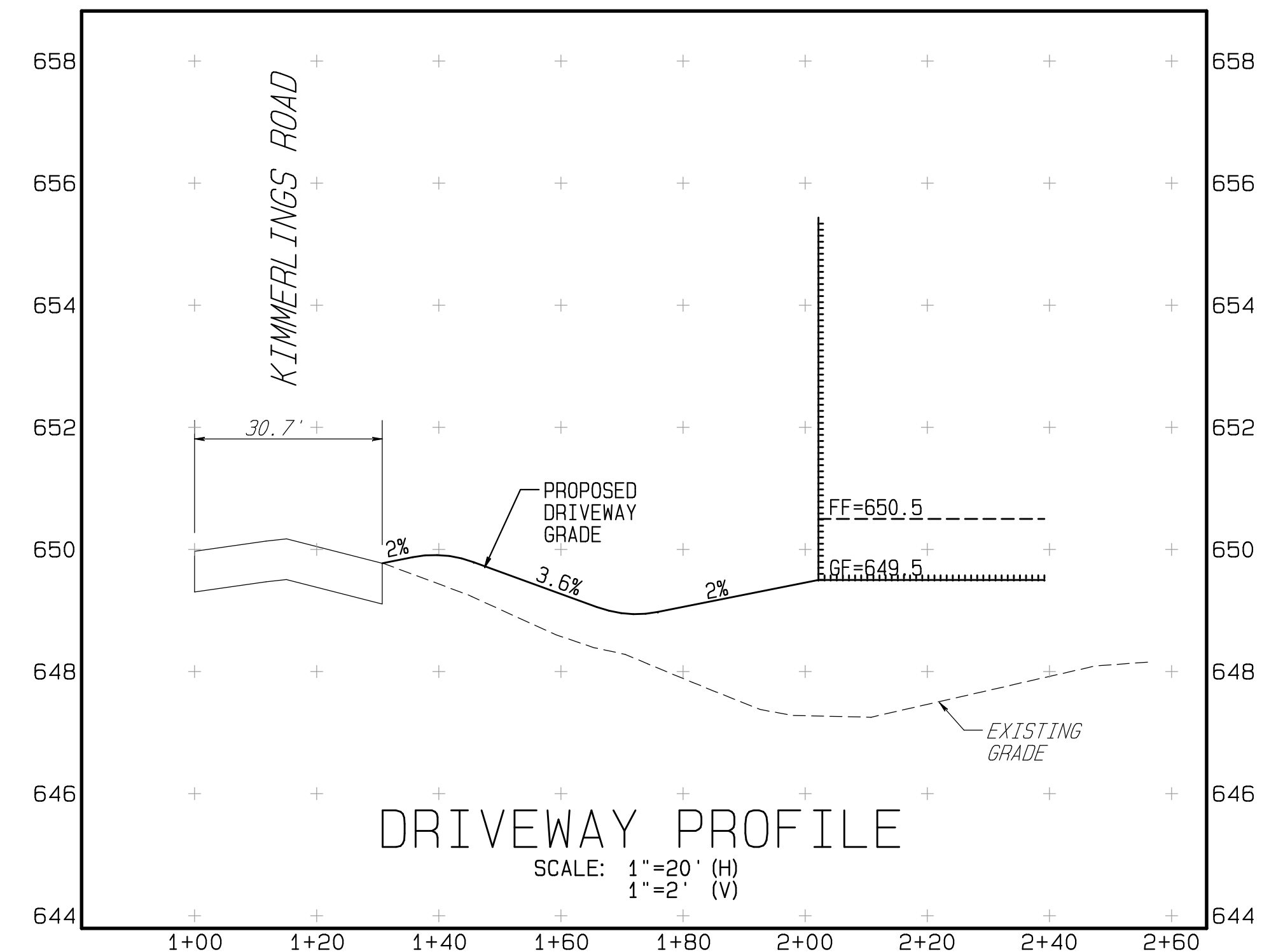
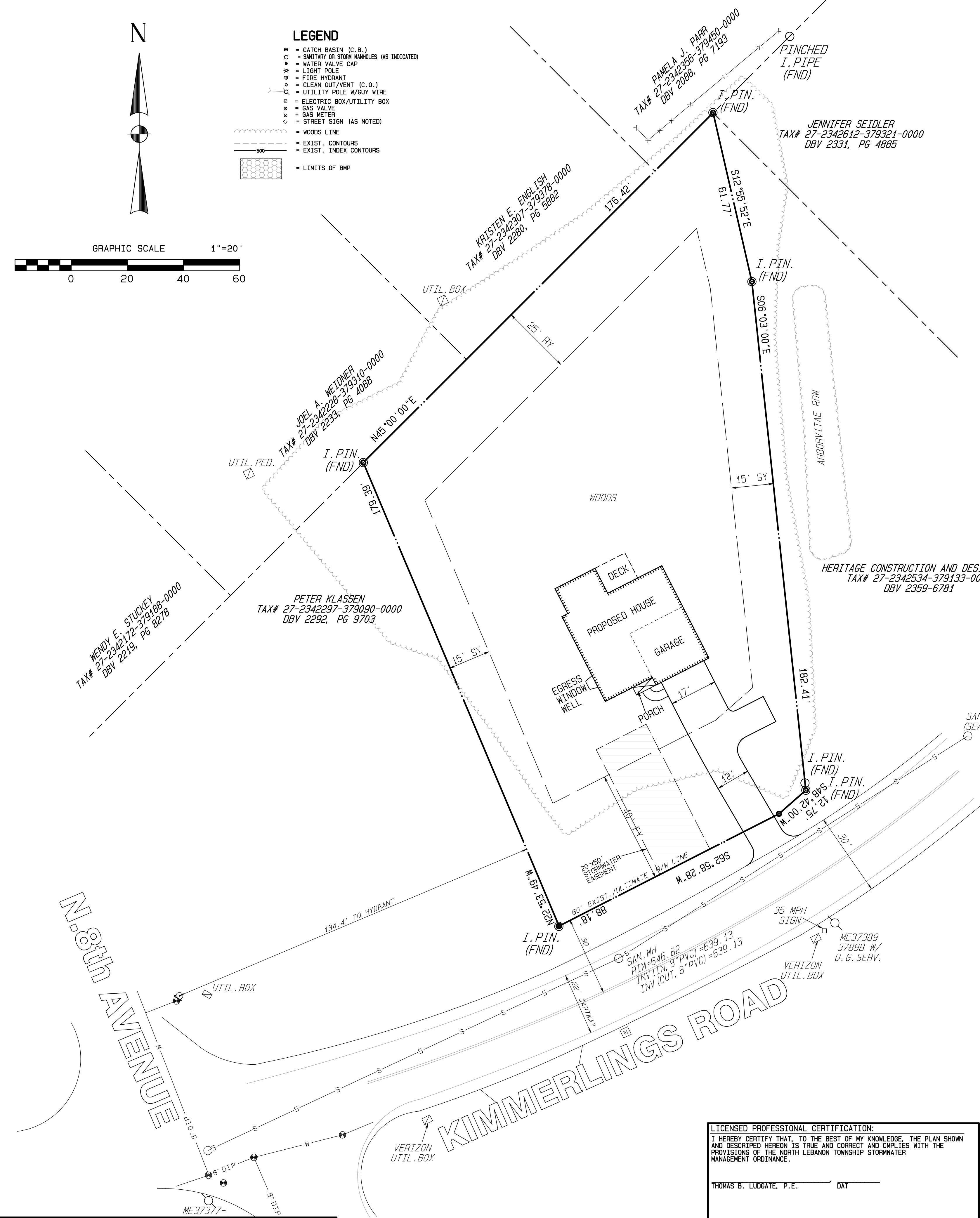
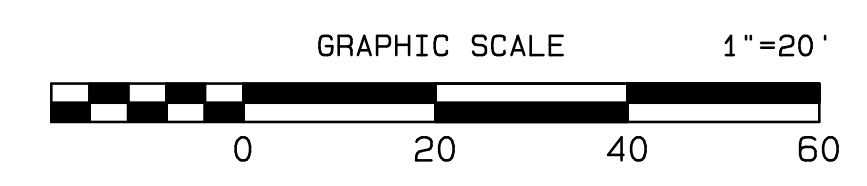


- LEGEND**
- CATCH BASIN (C.B.)
 - SANITARY OR STORM MANHOLES (AS INDICATED)
 - WATER VALVE CAP
 - LIGHT POLE
 - FIRE HYDRANT
 - CLEAN OUT/VENT (C.O.)
 - UTILITY POLE W/ W/ V WIRE
 - ELECTRIC BOX/UTILITY BOX
 - GAS VALVE
 - GAS METER
 - STREET SIGN (AS NOTED)
 - WOODS LINE
 - EXIST. CONTOURS
 - EXIST. INDEX CONTOURS
 - LIMITS OF BMP



NOTES

1. SITE FEATURES PER LUDGATE ENGINEERING CORP., FIELD SURVEY OF 10-3-25. SURVEY METHOD: CONVENTIONAL SURVEYING. HORIZ. DATUM: PA STATE PLANE COORDINATE SYSTEM - SOUTH. VERT. DATUM: NAVD 88.
2. OWNER: BRH HOMES IN PA SOUTHEAST LLC, 3335 MORANTOWN RD., MONROE, PA 18040-7931, PH: 717-247-6443, PBX 7, PG 24, LOT 104, DBV 9289-7153, UPI# 27-2341660-379351-0000.
3. REFERENCES:
 - * LEBANON COUNTY TAX MAPS
 - * PBV 7, PG 24
 - * DEEDS AS LISTED
4. ZONING: R1 - LOW DENSITY RESIDENTIAL SINGLE FAMILY DETACHED, PUBLIC WATER AND SEWER.

	REQUIREMENTS	PROPOSED
MIN. LOT AREA	15,000 SQ. FT.	26,905 SQ. FT. (0.61 ACRES)
MIN. LOT WIDTH	110 FT.	100.93 FT.
FRONT YARD	40 FT.	58.2 FT.
EACH SIDE YARD	15 FT.	29.4 FT., 43.9 FT.
REAR YARD	25 FT.	60.1 FT.
MAX. LOT COVERAGE	30%	9.9%
5. ESTIMATED START DATE AND COMPLETION DATE MAY 2026 TO NOVEMBER 2026.
6. CONTRACTORS AND PROPERTY OWNERS SHALL NOT STORE CONSTRUCTION MATERIALS OR LOCATE TRASH RECEPTACLES (I.E. DUMPSTERS) ON THE PAVED CARTWAY OF STREETS.
7. ALL MUD FROM CONSTRUCTION ACTIVITIES THAT IS TRACKED ONTO STREETS SHALL BE CLEANED BY THE RESPONSIBLE CONTRACTOR OR PROPERTY OWNER AT THE END OF EACH WORKDAY.
8. STORMWATER INLETS OR DRAINAGE PIPES WHICH BECOME FILLED WITH MUD OR DEBRIS FROM CONSTRUCTION ACTIVITIES SHALL BE CLEANED BY THE RESPONSIBLE CONTRACTOR OR PROPERTY OWNER.
9. APPROVED ADDRESS - 803 KIMMERLINGS ROAD.
10. THE DEVELOPER SHALL BE FINANCIALLY RESPONSIBLE FOR ANY ATTORNEY FEES WHERE THE ATTORNEY IS ENGAGED ON BEHALF OF THE TOWNSHIP/AUTHORITY RELATING TO THE REVIEW OF PLANS THAT ARE SUBMITTED TO THE TOWNSHIP/AUTHORITY. THESE FEES ARE IN ADDITION TO SUBMISSION FEES CHARGED BY THE TOWNSHIP AND AUTHORITY. PAYMENT OF ALL INVOICES IS DUE AND PAYABLE WITHIN 30 DAYS OF RECEIPT BUT IN ALL CASES PRIOR TO PLAN APPROVAL BY THE BOARD OF SUPERVISORS. ANY QUESTIONS ON INVOICES MUST BE REPORTED TO THE TOWNSHIP/AUTHORITY IN WRITING WITHIN 10 DAYS OF RECEIPT OF THE BILL.
11. A PDF COPY OF THE APPROVED STORMWATER MANAGEMENT PLAN AND REPORT SHALL BE SUBMITTED TO THE TOWNSHIP.
12. PLACEMENT OF TREES, SHRUBBERY, AND STRUCTURES WITHIN DRAINAGE EASEMENTS IS PROHIBITED UNLESS APPROVED BY THE TOWNSHIP.

SHEET INDEX

SITE PLAN	SHEET 1
STORMWATER MANAGEMENT PLAN	SHEET 2
GRADING & UTILITY PLAN	SHEET 3
EROSION & SEDIMENT PLAN	SHEET 4
DRAINAGE AREA PLAN	SHEET 5
EROSION & SEDIMENT DETAILS	SHEET 6
NARRATIVE	SHEET 7

**NORTH LEBANON TOWNSHIP BOARD OF SUPERVISORS
STORMWATER MANAGEMENT SITE PLAN APPROVAL CERTIFICATE**

At a meeting held on _____, 20____, the Board of Supervisors of North Lebanon Township, Lebanon County, Pennsylvania approved the STORMWATER MANAGEMENT SITE PLAN for the property as shown hereon. No other Stormwater Management Site plan or plans shall be recognized. Approval includes all documentation, including the comments or requirements of official reviewing individuals or agencies. Approval is based on compliance with applicable ordinances, rules, and regulations, and shall not be construed as a guarantee to any person or organization that the design of any part of the plan will function as anticipated under any or all conditions or situations. Additionally, that by review and/or approval of the plan, the Township expressly declines the assumption of liability errors, omissions, or mistakes in judgement in the design, engineering, construction, or expected function of the matters reviewed and/or approved.

CERTIFICATION OF OWNERSHIP

Commonwealth of Pennsylvania
County of Lebanon

On this, the _____ day of _____, 20____, before me, the undersigned officer, personally appeared _____, being owner duly sworn according to law, and says that the corporation is the Identifying Ownership of the property shown on this plan, that he is authorized to execute said plan on behalf of the corporation, that the plan thereof was made at his direction, that it acknowledges the same to be its act and plan, that it desires the same to be recorded, and that it acknowledges all stormwater management facilities are permanent fixtures that can be altered or removed only after approval of a revised Stormwater Management Site Plan by the Township.

Owner Signature _____

Notary Public

SITUATE IN:
NORTH LEBANON TOWNSHIP,
LEBANON COUNTY,
PENNSYLVANIA

SITE PLAN

BERKS- KIMMERLINGS ROAD



LINCOLN CORPORATE CENTER
10 VANGUARD DRIVE, SUITE 100
READING, PA 19606
PHONE: 610/404-7330
www.ludgate-eng.com

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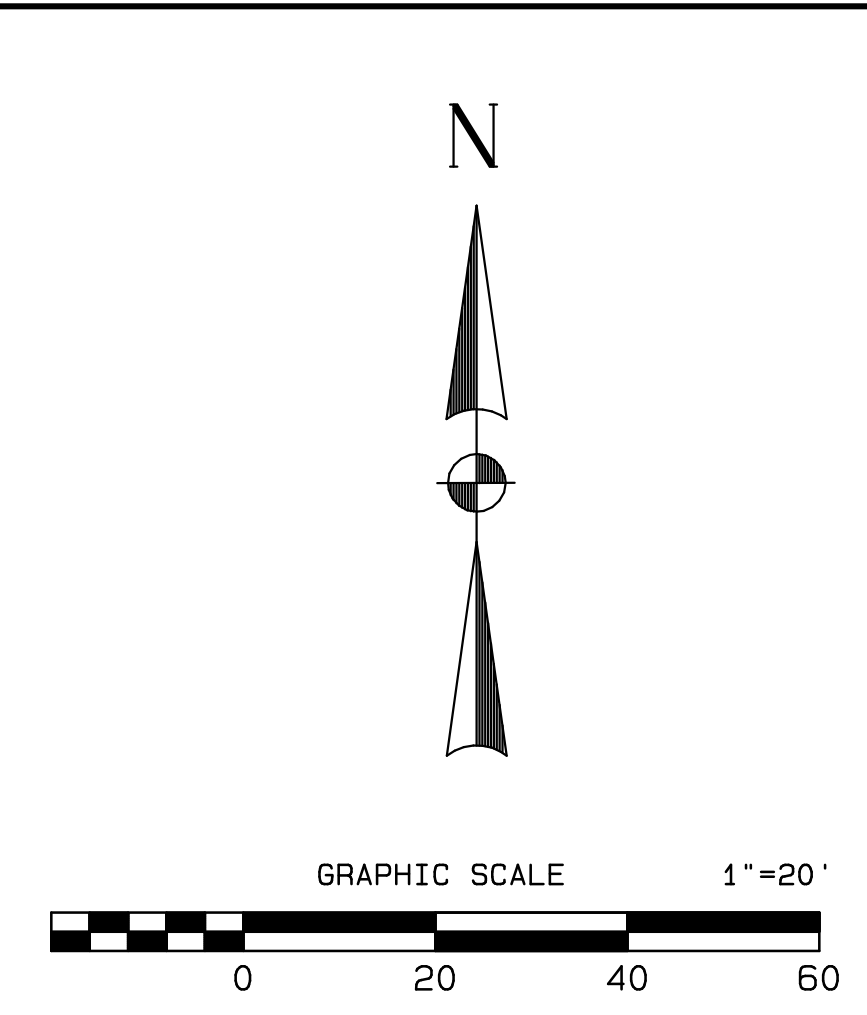
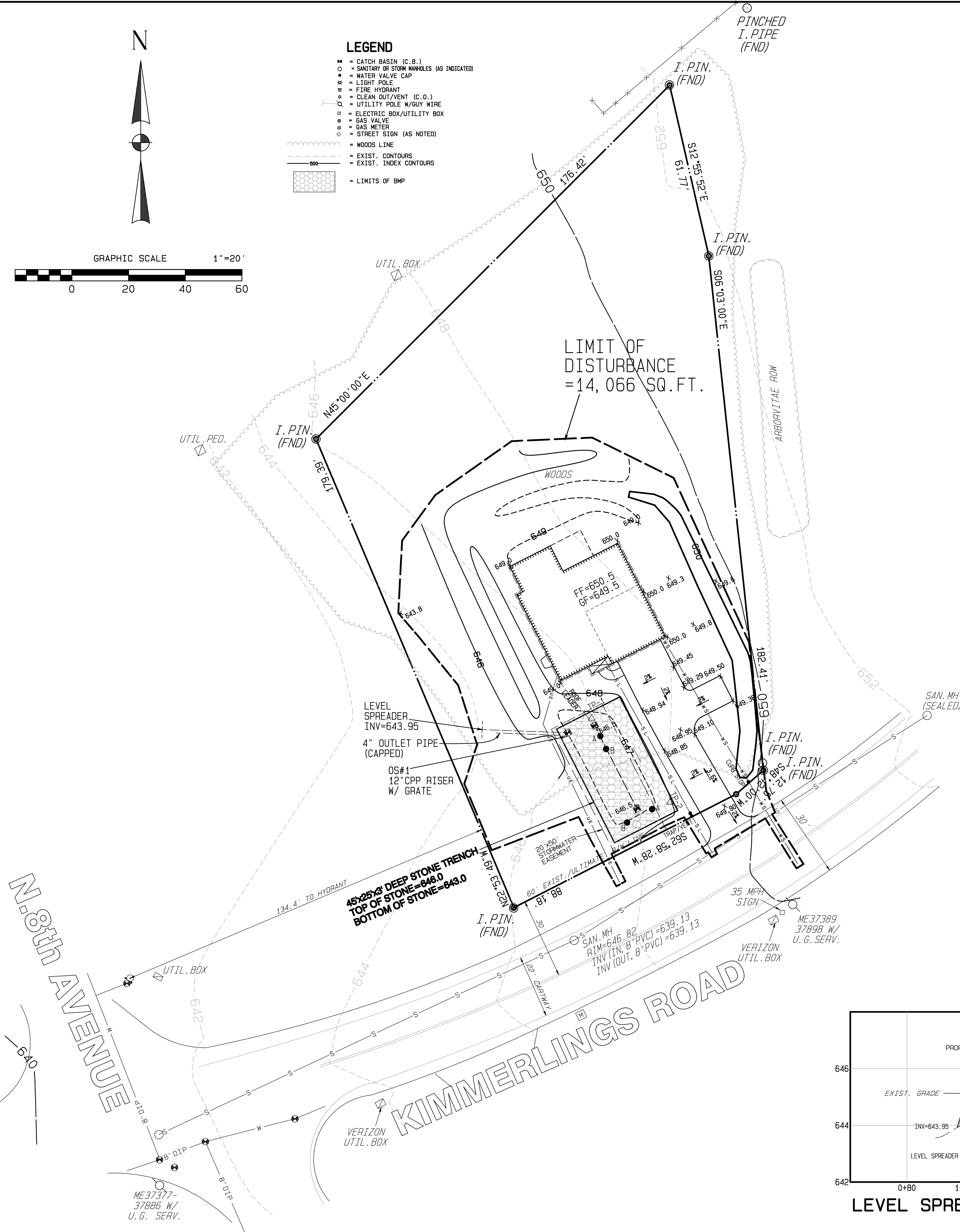
REVISION	DATE	DESCRIPTION

LICENSED PROFESSIONAL CERTIFICATION:

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE PLAN SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT AND COMPLIES WITH THE PROVISIONS OF THE NORTH LEBANON TOWNSHIP STORMWATER MANAGEMENT ORDINANCE.

THOMAS B. LUDGATE, P.E. DAY

Project Date: 10/9/25, 10:52 AM, Path: C:\Users\ludgate\OneDrive\Documents\8000725.dwg, Plot Date/Time: Wed Feb 26, 2026 / 10:52:53



- LEGEND**
- CATCH BASIN (C.B.)
 - SANITARY OR STORM MANHOLES (AS INDICATED)
 - WATER VALVE CAP
 - LIGHT POLE
 - FIRE HYDRANT
 - CLEAN OUT/VENT (C.O.)
 - UTILITY POLE W/GUY WIRE
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 - GAS VALVE
 - GAS METER
 - STREET SIGN (AS NOTED)
 - WOODS LINE
 - EXIST. CONTOURS
 - EXIST. INDEX CONTOURS
 - LIMITS OF BMP

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BeB	Bedington shaly silt loam, 3 to 8 percent slopes	0.5	100.0%
Totals for Area of Interest		0.5	100.0%

One Hour Pre-Soak

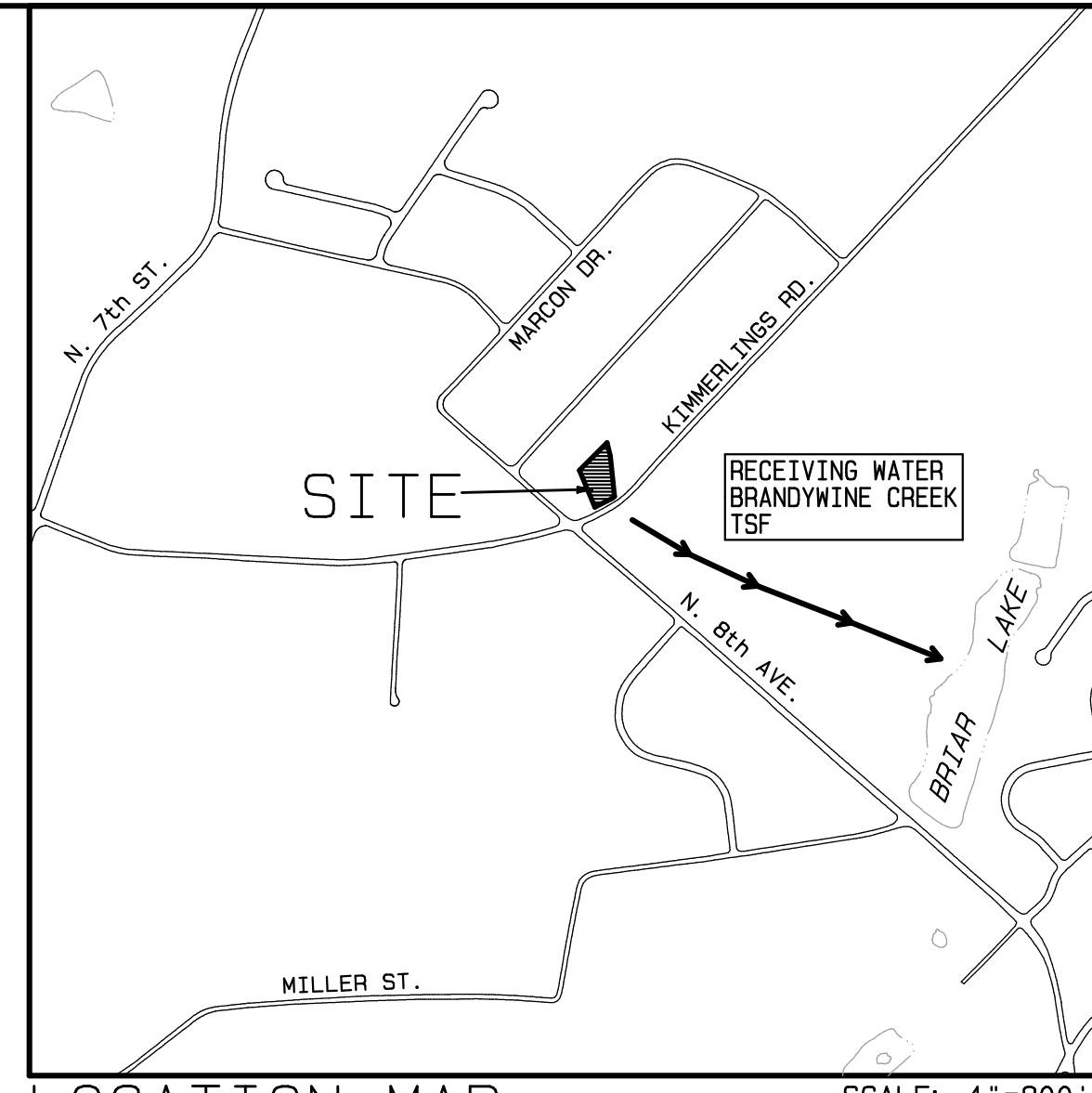
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TP 1A	72"	30min	el. 643	n/a	1 1/2	1 1/2	1 1/4	1 1/8	1	1			1.000	2.000
TP 1B	72"	30min	el. 643	*	1/2	1/2	1/2	3/8					0.375	0.750
TP 2A	96"	30min	el. 643	*	3 1/4	3 1/8	3	3					3.000	6.000
TP 2B	96"	30min	el. 643	*	3	3	2 7/8	2 5/8	2 5/8	2 5/8			2.625	5.250

PIT NUMBER:	TP-1	DATE:	2/11/2026	PERMIT #:	
PROJECT:	Kimmerlings Road	COUNTY:	Lebanon	GEOMORPHIC	back slope
ENGINEER:	Thomas Ludgate P.E. 10 Vanguard Dr., Ste 90 Reading, PA 19605	TOWNSHIP:	North Lebanon	POSITION:	light woods
SITE:	40.36622815314239, -76.40795495027226	DEVELOPMENT:	Commercial	WEATHER:	dry soil, light rain
		SLOPE:	3%	SOIL SCIENTIST	Ross Wolford

Horizon	Depth		Boundary	Color	Texture	%CF's	Redox Features		Structure	Consistency
	Upper	Lower					Abundance	Contrast		
Ap	0	10	a/s	5yr3/4	channery silt loam	5%			2 m gr	loose
Bt1	10	26	c/w	5yr4/4	channery silt loam	25%			2 m sbk	friable
Bt2	26	38	c/w	5yr5/8	gravelly loam	25%			2 m sbk	friable
C	38	72		5yr5/8	channery sandy loam	35%			2 m sbk	friable

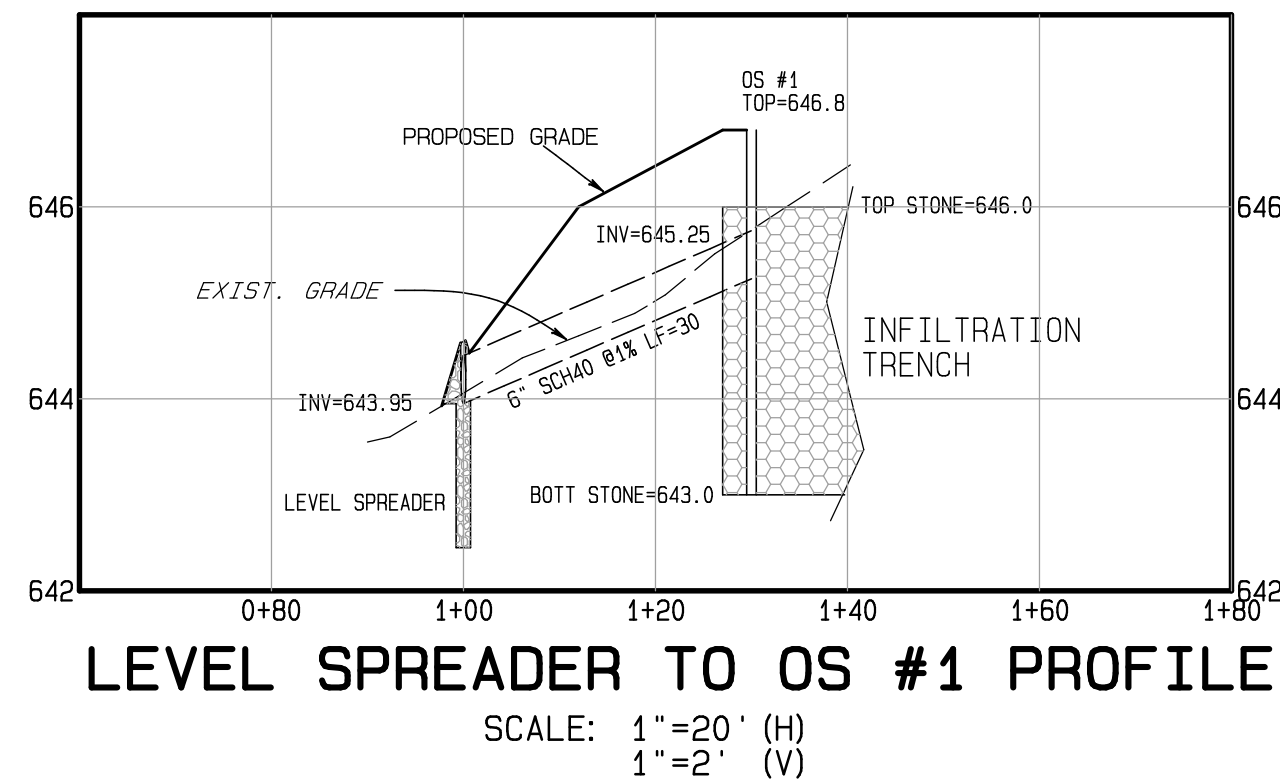
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PROJECT:	Kimmerlings Road	COUNTY:	Lebanon	GEOMORPHIC	back slope
ENGINEER:	Thomas Ludgate P.E. 1 0 Vanguard Dr., Ste. 90 Reading, PA 19605	TOWNSHIP:	North Lebanon	POSITION:	light woods
SITE:	40.36622815314239, -76.40795495027226	DEVELOPMENT:	Commercial	WEATHER:	dry soil, light rain
		SLOPE:	3%	SOIL SCIENTIST	Ross Wolford

Horizon	Depth		Boundary	Color	Texture	%CF's	Redox Features		Structure	Consistency
	Upper	Lower					Abundance	Contrast		
Ap	0	9	a/s	5yr3/4	gravelly silt loam	5%			2 m gr	loose
Bt1	9	26	c/w	5yr5/6	channery silt loam	25%			2 m sbk	friable
Bt2	26	36	c/w	5yr5/8	channery silty clay loam	25%			2 m sbk	friable
C1	36	66	c/w	5yr6/6	chan. silty clay loam	50%			2 m sbk	friable
C2	66	96		5yr5/6	extremely channery sandy loam	80%			1 m sbk	friable



LOCATION MAP SCALE: 1"=800'

- NOTES**
- ALL STORMWATER MANAGEMENT FACILITIES SHOWN ON THIS PLAN SHALL BE CONSTRUCTED BY THE DEVELOPER IN ACCORDANCE WITH THE DESIGN, CONDITIONS AND SPECIFICATIONS IDENTIFIED ON THIS PLAN. OWNERSHIP AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE LANDOWNER, HIS SUCCESSORS, AND ASSIGNS, UNLESS SPECIFICALLY IDENTIFIED OTHERWISE HEREIN.
 - STORMWATER MANAGEMENT FACILITIES SHALL BE MAINTAINED IN GOOD WORKING CONDITION SO THAT THEY ARE PERFORMING THEIR DESIGN FUNCTION. IN A MANNER ACCEPTABLE TO NORTH LEBANON TOWNSHIP, AS REQUIRED BY NORTH LEBANON TOWNSHIP STORMWATER MANAGEMENT ORDINANCE. MAINTENANCE SHALL INCLUDE PERFORMING ROUTINE MAINTENANCE AND REPAIR OR REPLACEMENT OF DAMAGED FACILITIES, VEGETATION, OR STORMWATER AREAS TO CONDITIONS AS SHOWN ON THE APPROVED PLAN AND IN ACCORDANCE WITH NORTH LEBANON TOWNSHIP STORMWATER MANAGEMENT ORDINANCE.
 - ANY DRAINAGE AND UTILITY EASEMENTS SHOWN ON THE PLAN SHALL BE CONSTRUCTED, OWNED, AND MAINTAINED IN ACCORDANCE WITH THE APPROVED PLAN AND SHALL BE REFERENCED WITHIN THE PROPERTY DEED.
 - RUNOFF FROM THE LOT IMPROVEMENTS SHALL BE DIRECTED TO THE STORMWATER MANAGEMENT FACILITIES. STORMWATER RUNOFF FROM EXISTING NATURAL SWALES AND/OR OTHER EXISTING DRAINAGE CONVEYORS SHALL NOT BE DIRECTED TOWARDS OR INTERCEPTED BY THE STORMWATER MANAGEMENT FACILITIES.
 - TOWNSHIP OFFICIALS AND THEIR AGENTS OR EMPLOYEES HAVE THE RIGHT OF ACCESS FOR INSPECTION AND, IN CASES OF CONSTRUCTION DEFAULT, CONSTRUCTION OF THE STORMWATER MANAGEMENT FACILITIES.
 - CONTACT NORTH LEBANON TOWNSHIP AT (717) 273-7132 PRIOR TO CONSTRUCTION TO COORDINATE INSPECTIONS OF STORMWATER MANAGEMENT FACILITIES BY THE TOWNSHIP ENGINEER. NO OCCUPANCY IS PERMITTED UNTIL STORMWATER MANAGEMENT FACILITIES HAVE BEEN INSTALLED AND APPROVED THROUGH INSPECTION BY THE TOWNSHIP ENGINEER. NOTE: WHERE FACILITIES SUCH AS NEW STREETS WITH STORM SEWERS AND RELATED STRUCTURES ARE INTENDED FOR OWNERSHIP AND MAINTENANCE BY THE TOWNSHIP, HOMEOWNER'S ASSOCIATION, OR SIMILAR ORGANIZATION, ADDITIONAL NOTES SHALL BE PROVIDED TO DOCUMENT OWNERSHIP AND MAINTENANCE RESPONSIBILITIES.
 - THE PROPOSED STORMWATER MANAGEMENT BMP(S) (CIRCLE ONE) IS/ARE (OR IS/ARE NOT) UNDERLAIN BY LIMESTONE.

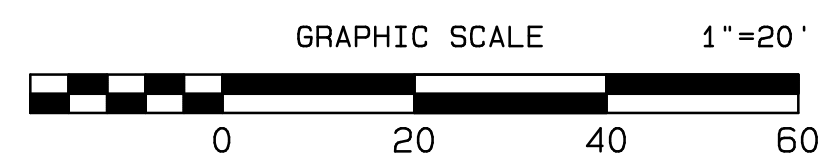
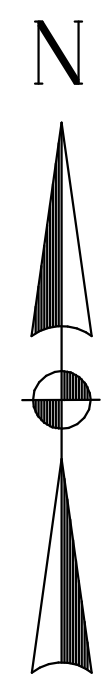


STORMWATER MANAGEMENT PLAN for BERKS HOMES

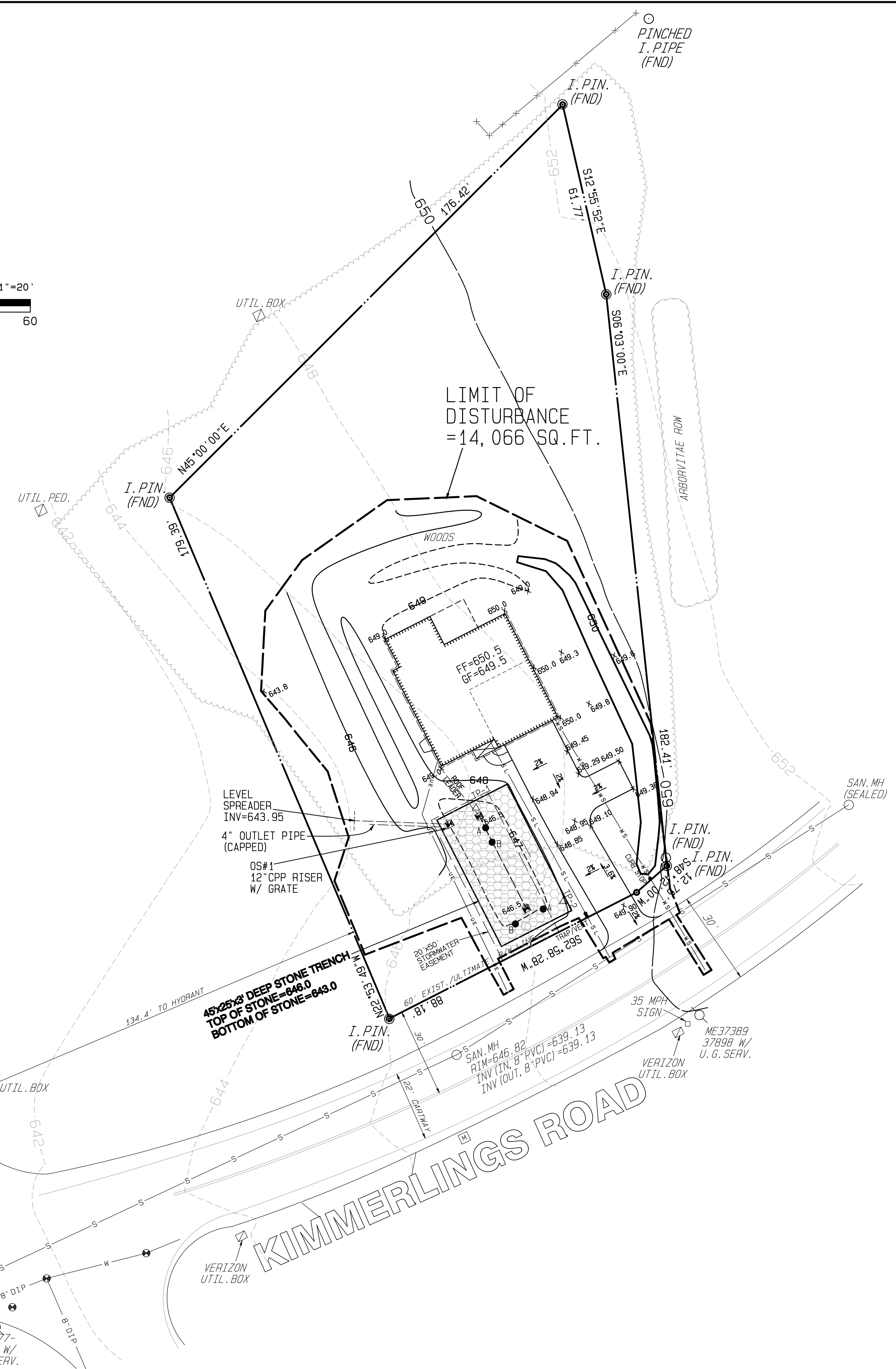
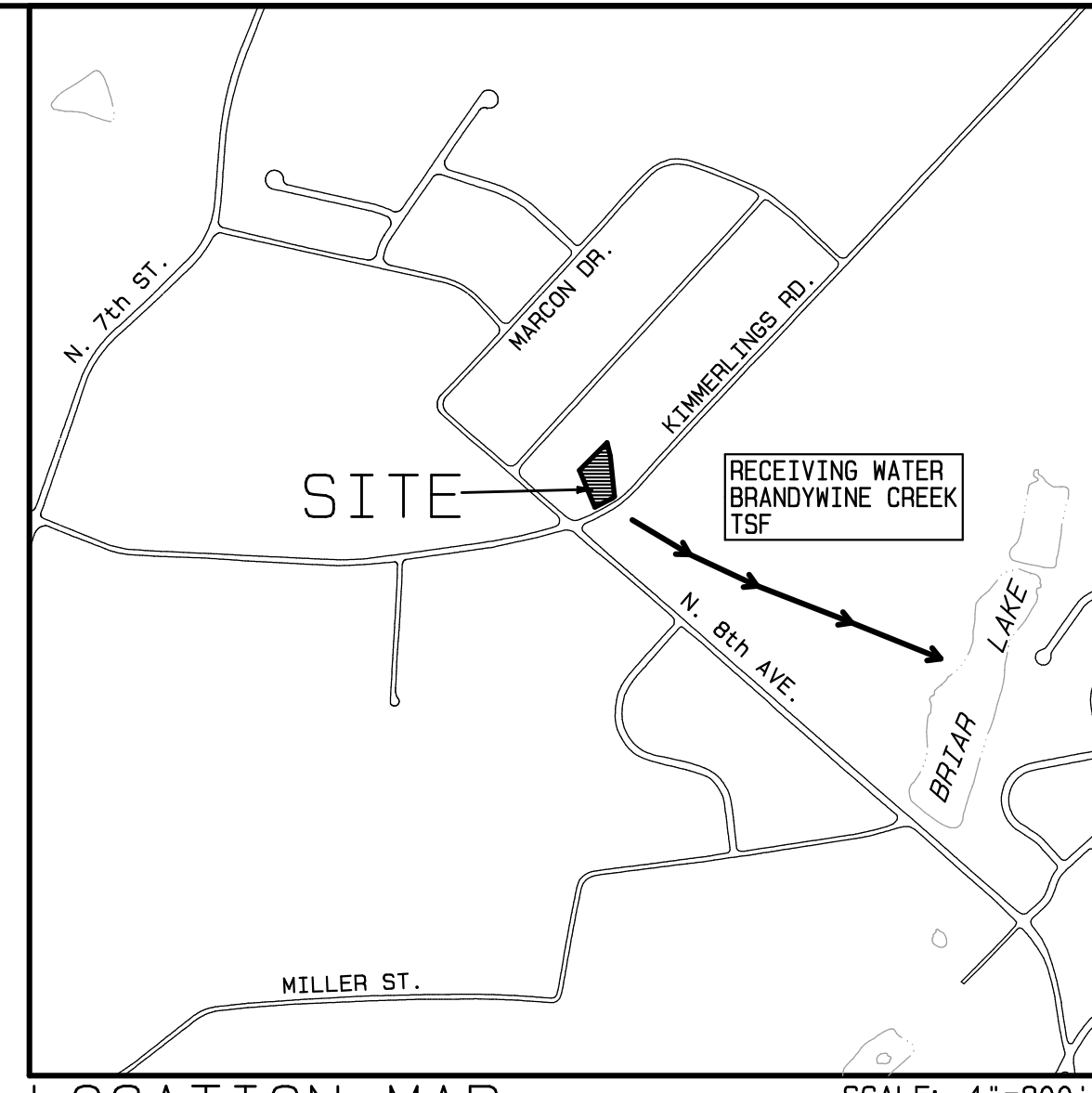
SITUATE IN: NORTH LEBANON TOWNSHIP, LEBANON COUNTY, PENNSYLVANIA		803 KIMMERLINGS ROAD	
<p>LINCOLN CORPORATE CENTER 10 VANGUARD DRIVE, SUITE 100 READING, PA 19606 PHONE: 610/404-7330 www.ludgate-eng.com</p>		DRAWN 10-9-25 SCALE 1"=20'	COMPUTER FILE C:\8000725.PRO DRAWING NUMBER D-8000725 SHEET 2 OF 7
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REVISION	DATE	DESCRIPTION

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 Plot Date/Time: Wed Feb 25, 2026 / 10:58:38



- LEGEND**
- CATCH BASIN (C.B.)
 - SANITARY OR STORM MANHOLES (AS INDICATED)
 - WATER VALVE CAP
 - ⊕ LIGHT POLE
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 - ⊕ GAS METER
 - ⊕ STREET SIGN (AS NOTED)
 - WOODS LINE
 - - - - - EXIST. CONTOURS
 - - - - - EXIST. INDEX CONTOURS
 - ▨ LIMITS OF BMP



N. 8th AVENUE

KIMMERLINGS ROAD

UTILITY & GRADING PLAN

SITUATE IN:
NORTH LEBANON TOWNSHIP,
LEBANON COUNTY,
PENNSYLVANIA

BERKS- KIMMERLINGS ROAD

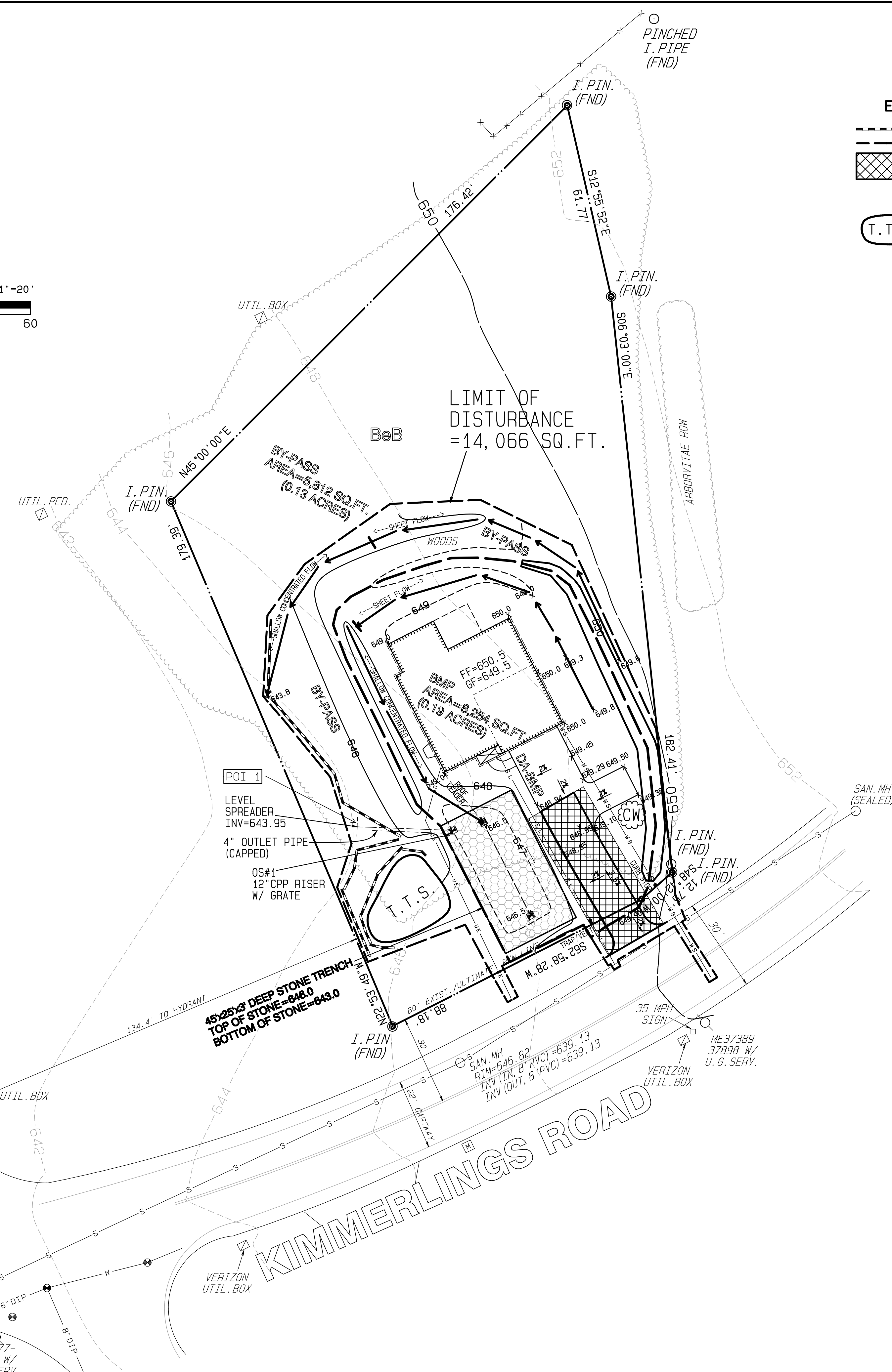
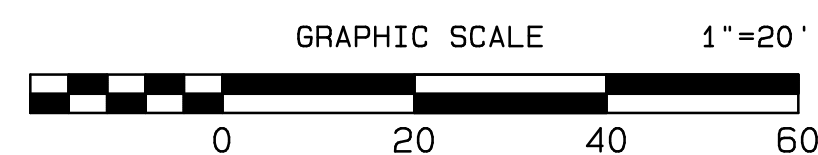
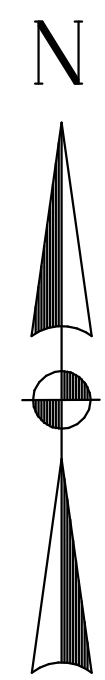


LINCOLN CORPORATE CENTER
10 VANGUARD DRIVE, SUITE 100
READING, PA 19606
PHONE: 610/404-7330
www.ludgate-eng.com

DRAWN		COMP (BNDY)	COMP (LOTS)	PA ONE	COMPUTER FILE
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REVISION	DATE	DESCRIPTION

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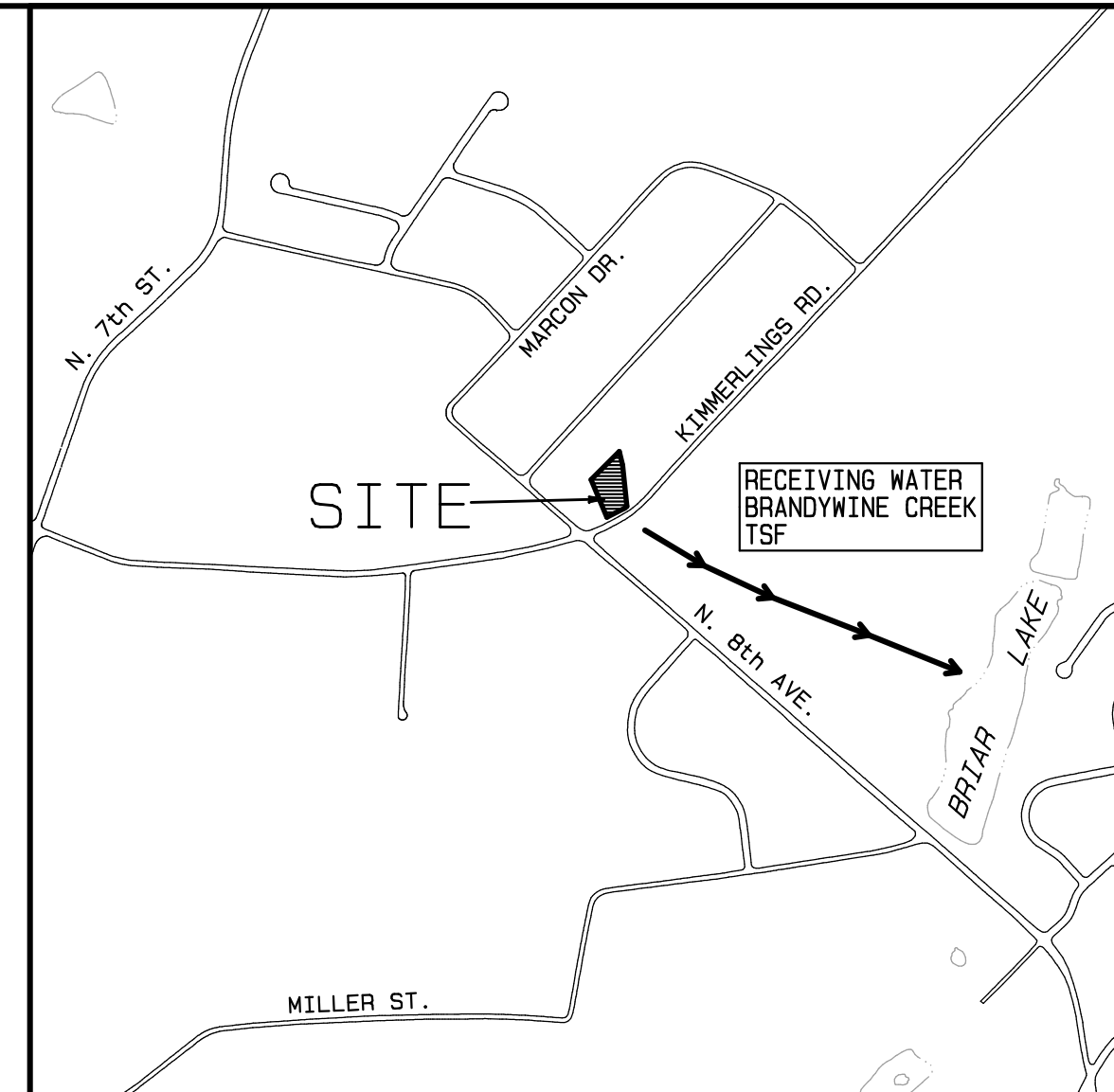


E&S LEGEND

- 12" COMPOST FILTER SOCK
- LIMIT OF DISTURBANCE
- ROCK CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- TEMPORARY TOPSOIL STOCKPILE

LEGEND

- CATCH BASIN (C.B.)
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- EXIST. INDEX CONTOURS
- LIMITS OF BMP



NOTES

1. TREES, SHRUBBERY, AND STRUCTURES SHALL NOT BE PLACED WITHIN DRAINAGE EASEMENTS UNLESS APPROVED BY THE TOWNSHIP.
2. IMPERVIOUS SURFACE :
 BUILDING - 1,584 SQ. FT.
 DRIVEWAY - 1,029 SQ. FT.
 OTHER - 50 SQ. FT.
 TOTAL = 2,663 SQ. FT.
3. THE ENTIRE TRACT IS LOCATED IN A BEB SOILS TYPE. SOIL HYDROLOGIC GROUP IS B

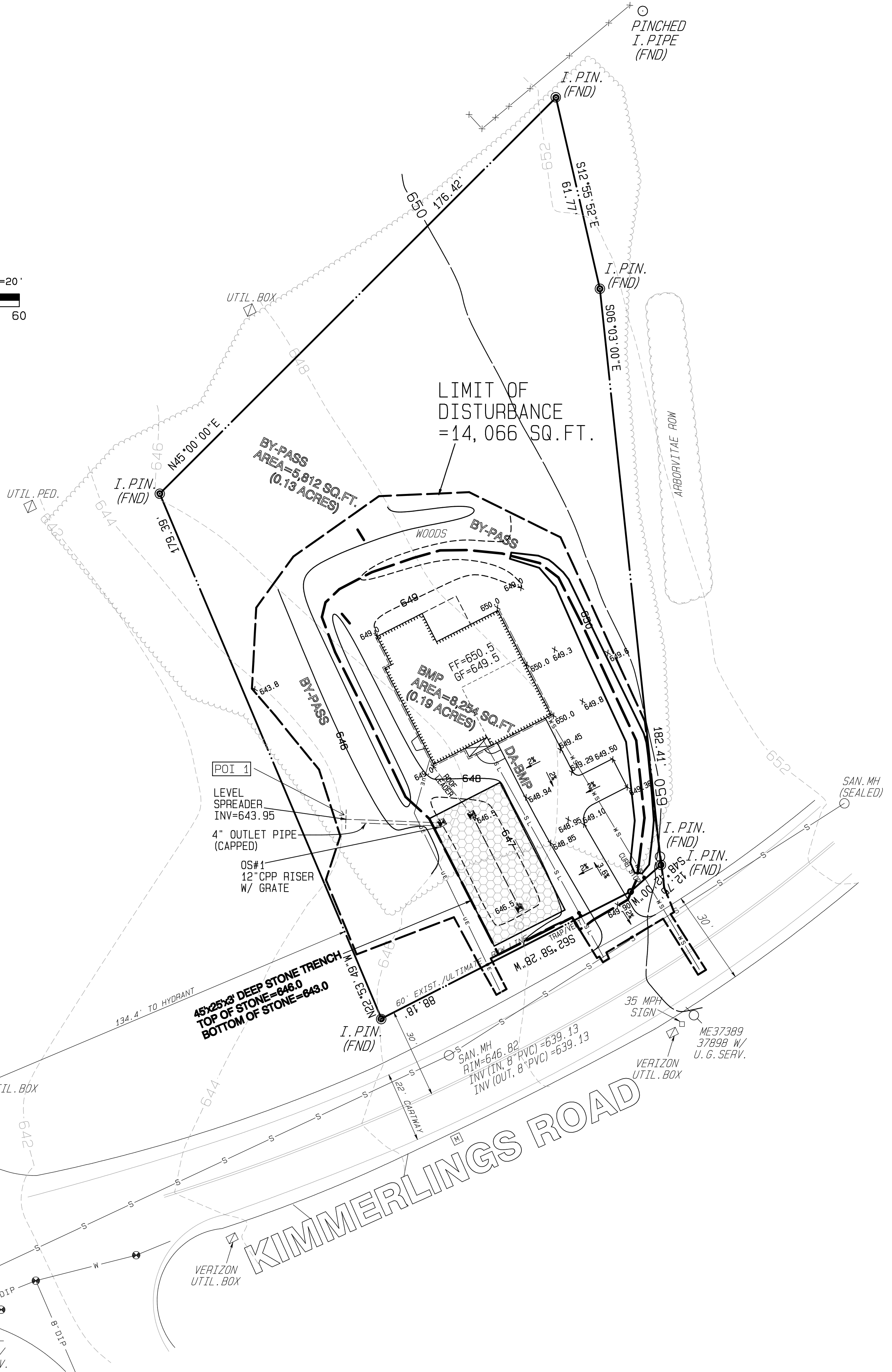
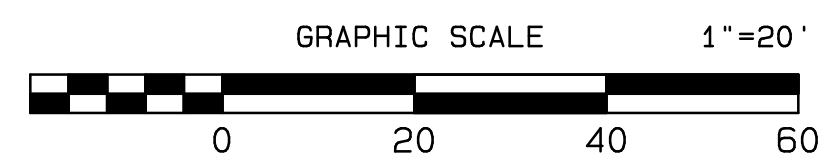
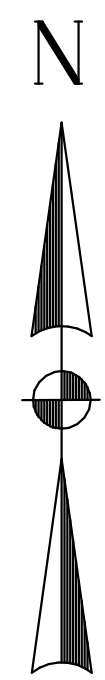
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Beb	Bedington shaly silt loam, 3 to 8 percent slopes	0.5	100.0%
Totals for Area of Interest		0.5	100.0%

EROSION & SEDIMENTATION POLLUTION CONTROL PLAN

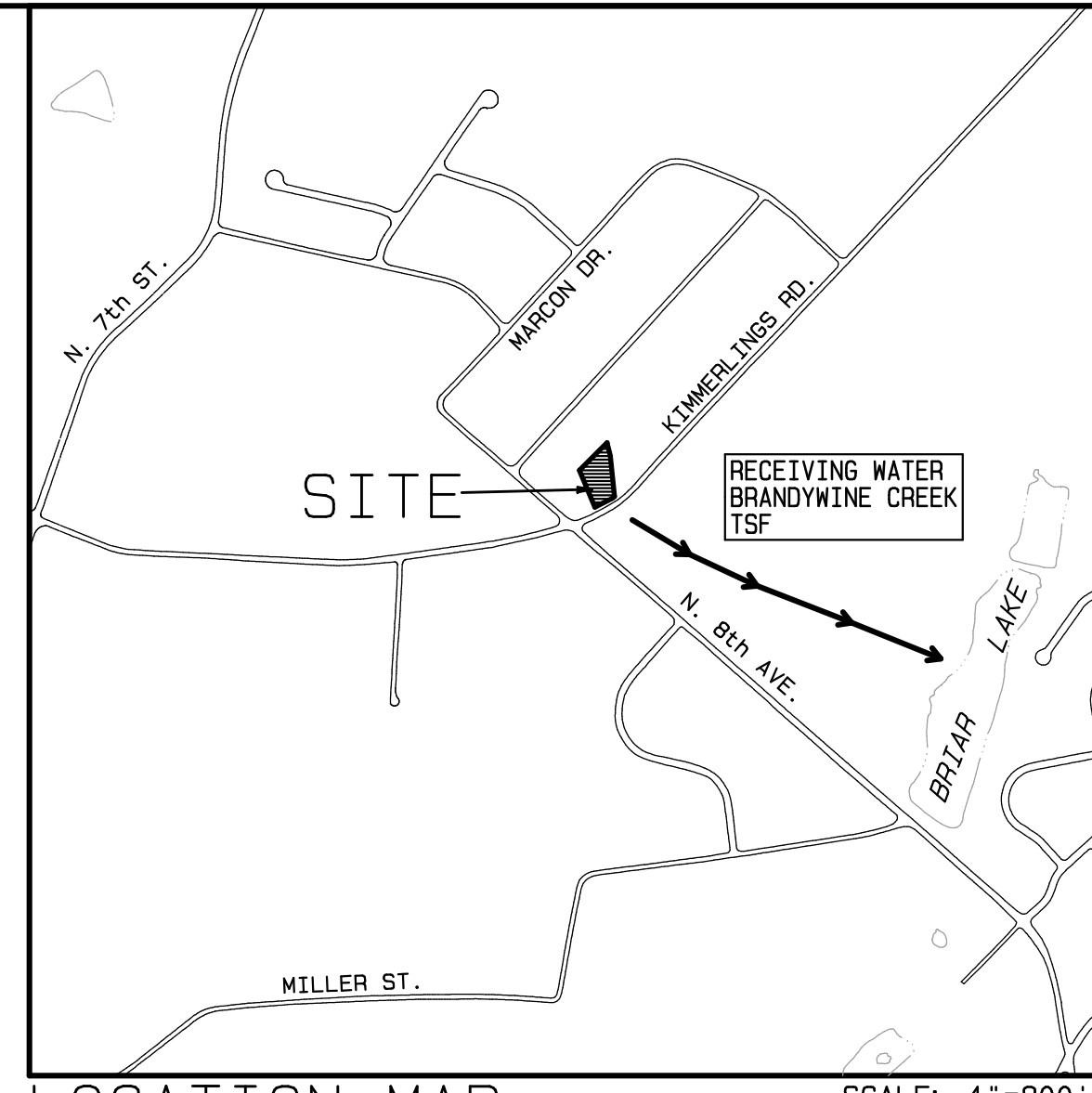
SITUATE IN: NORTH LEBANON TOWNSHIP, LEBANON COUNTY, PENNSYLVANIA	BERKS- KIMMERLINGS ROAD LINCOLN CORPORATE CENTER 10 VANGUARD DRIVE, SUITE 100 READING, PA 19606 PHONE: 610/404-7330 www.ludgate-eng.com																									
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REVISION	DATE	DESCRIPTION

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- LEGEND**
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 - - - - - EXIST. INDEX CONTOURS
 - ▨ LIMITS OF BMP



POST CONSTRUCTION DRAINAGE AREA PLAN

SITUATE IN:
NORTH LEBANON TOWNSHIP,
LEBANON COUNTY,
PENNSYLVANIA

BERKS- KIMMERLINGS ROAD

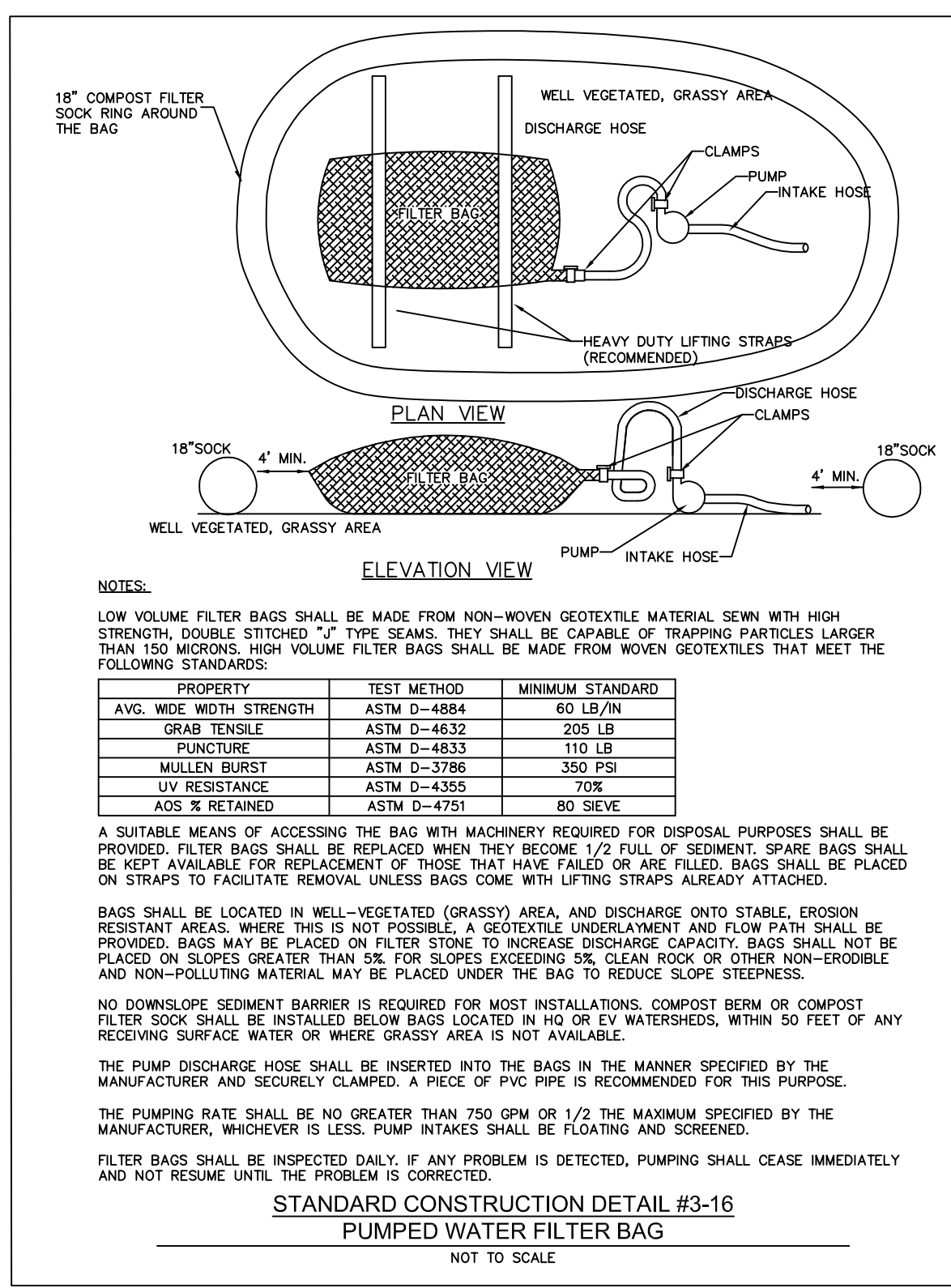
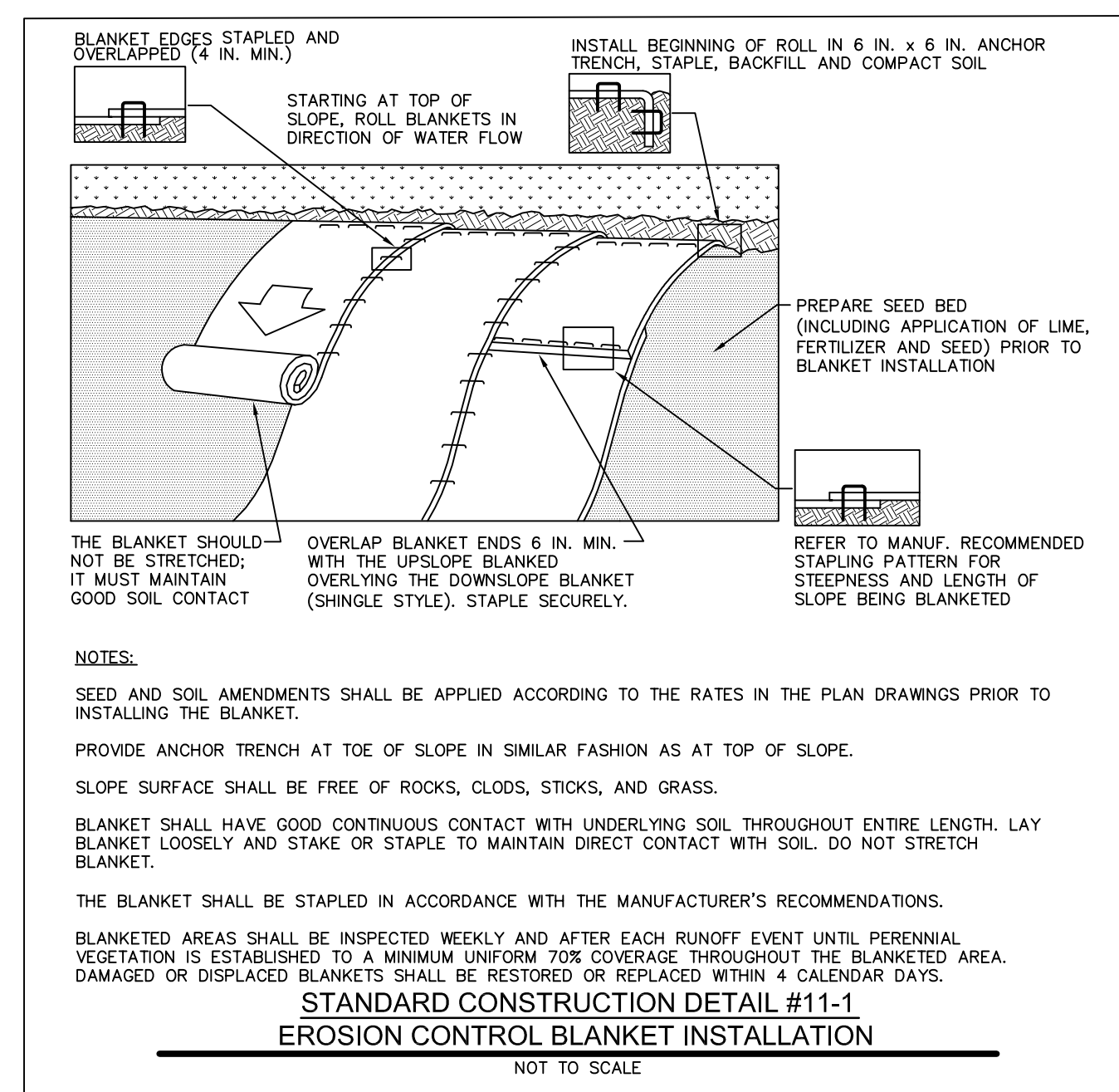
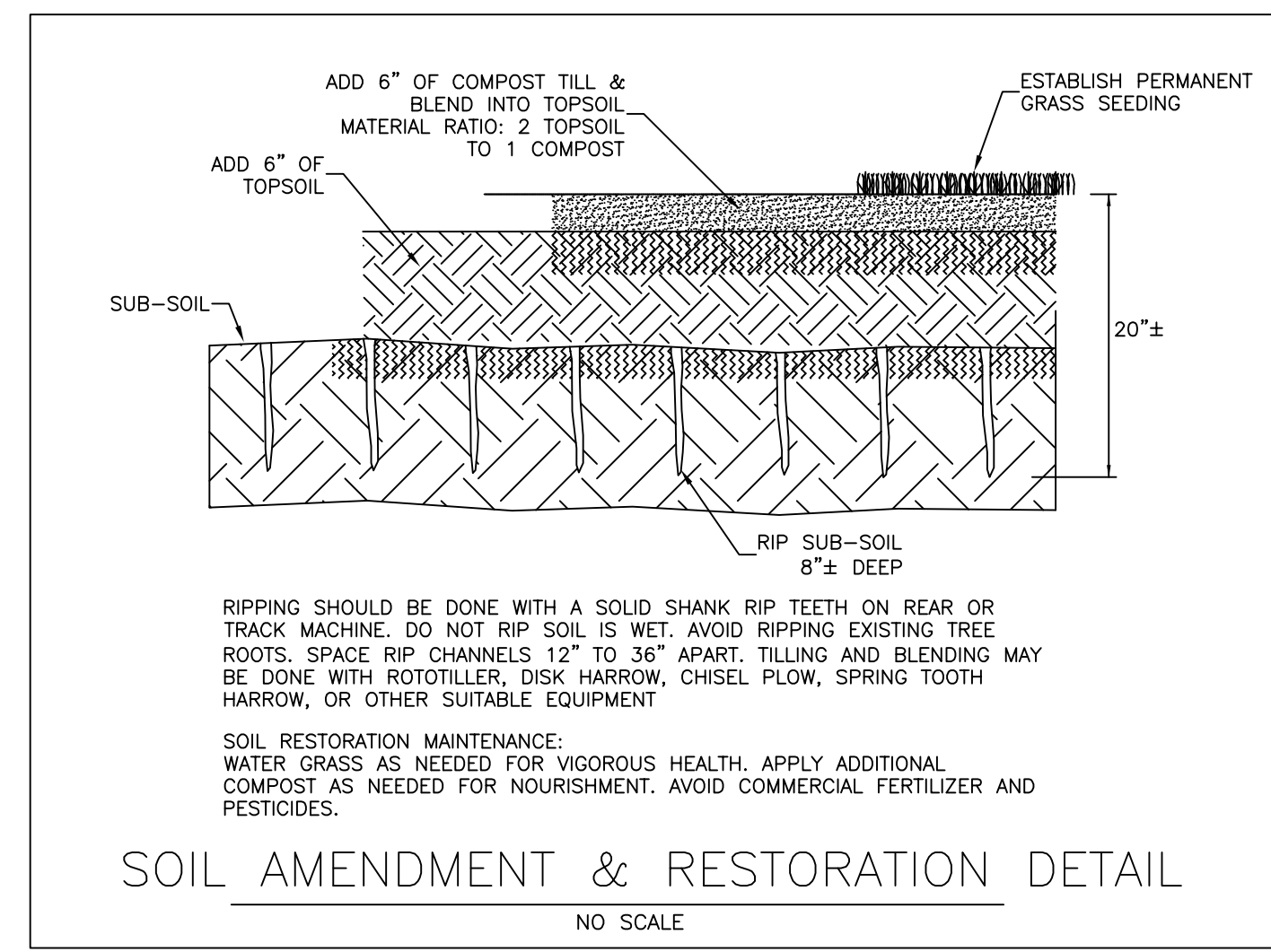
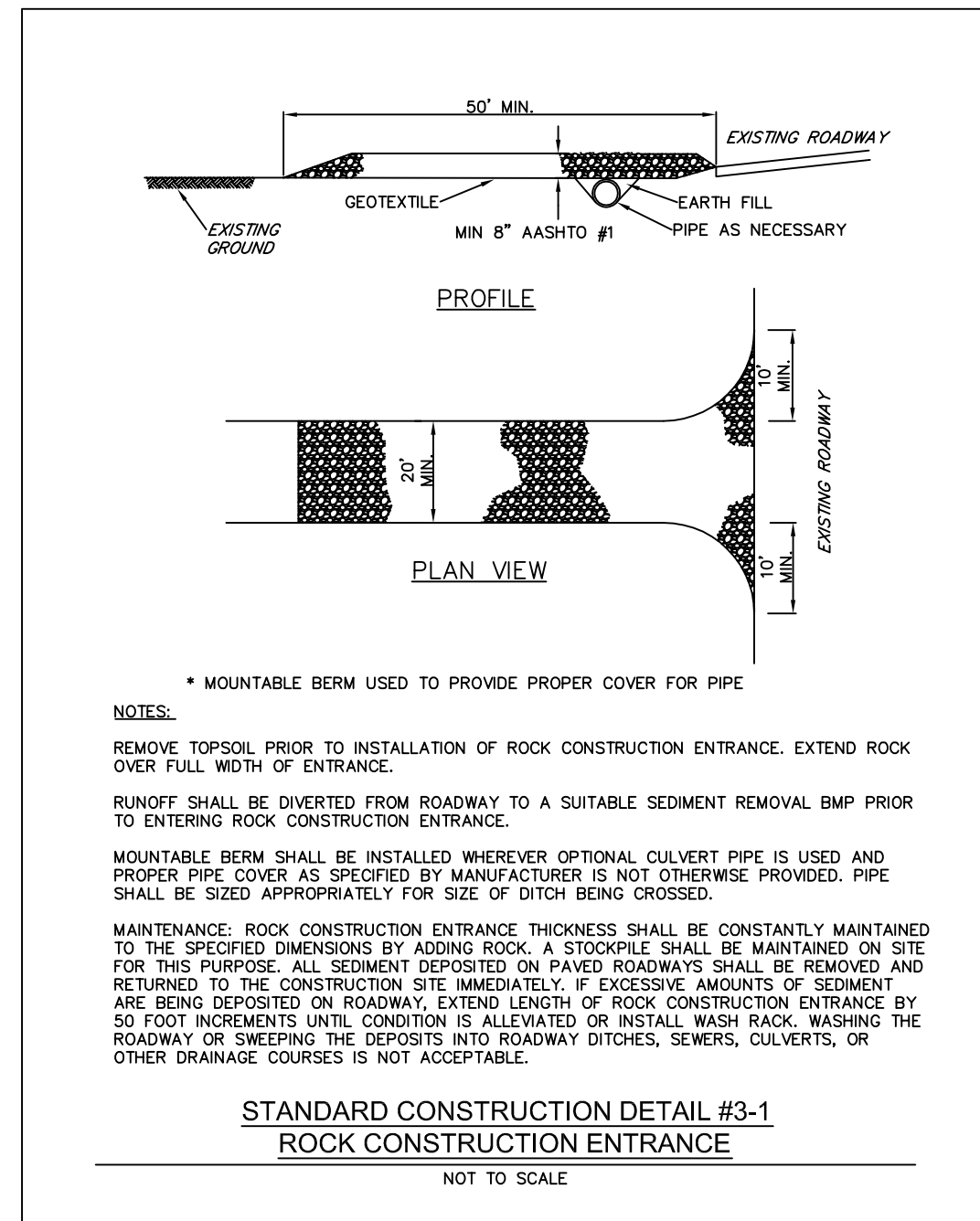
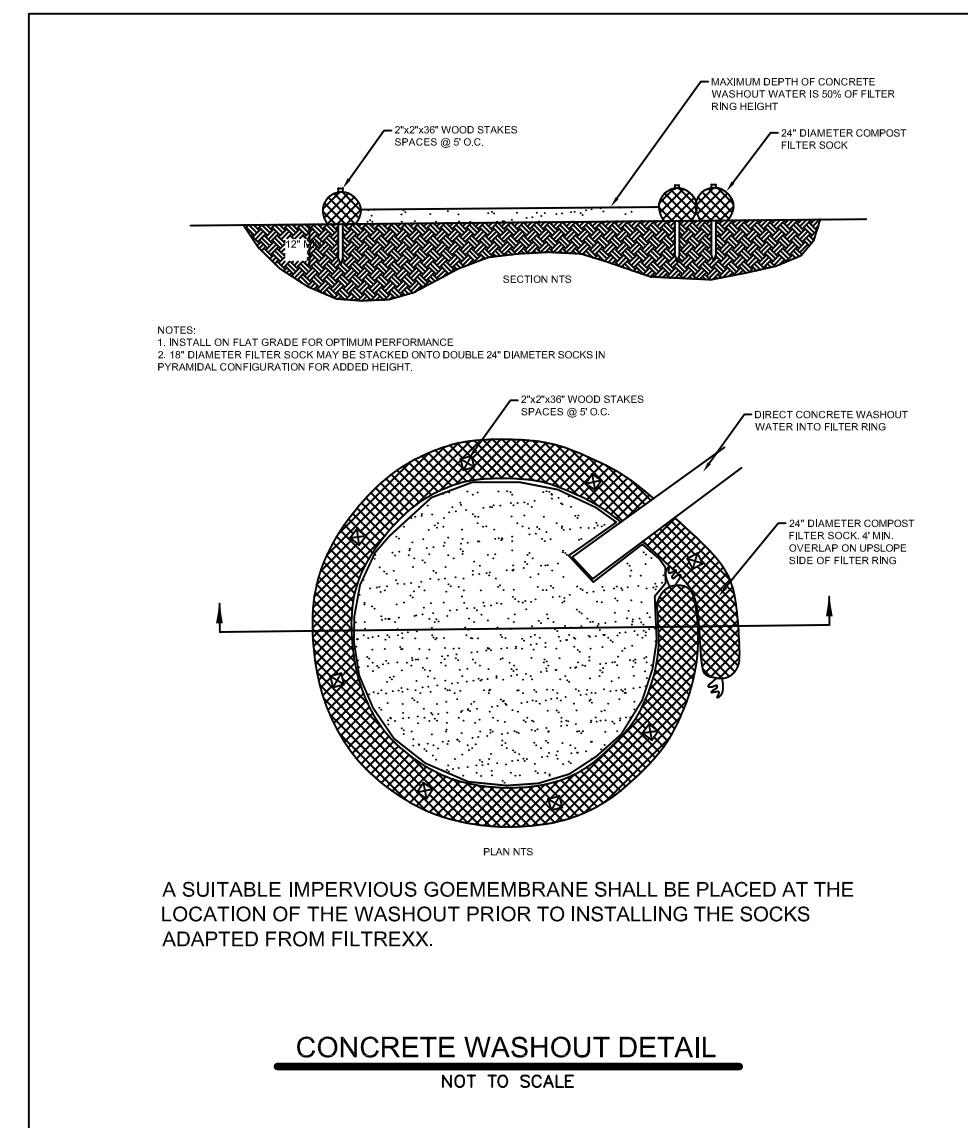
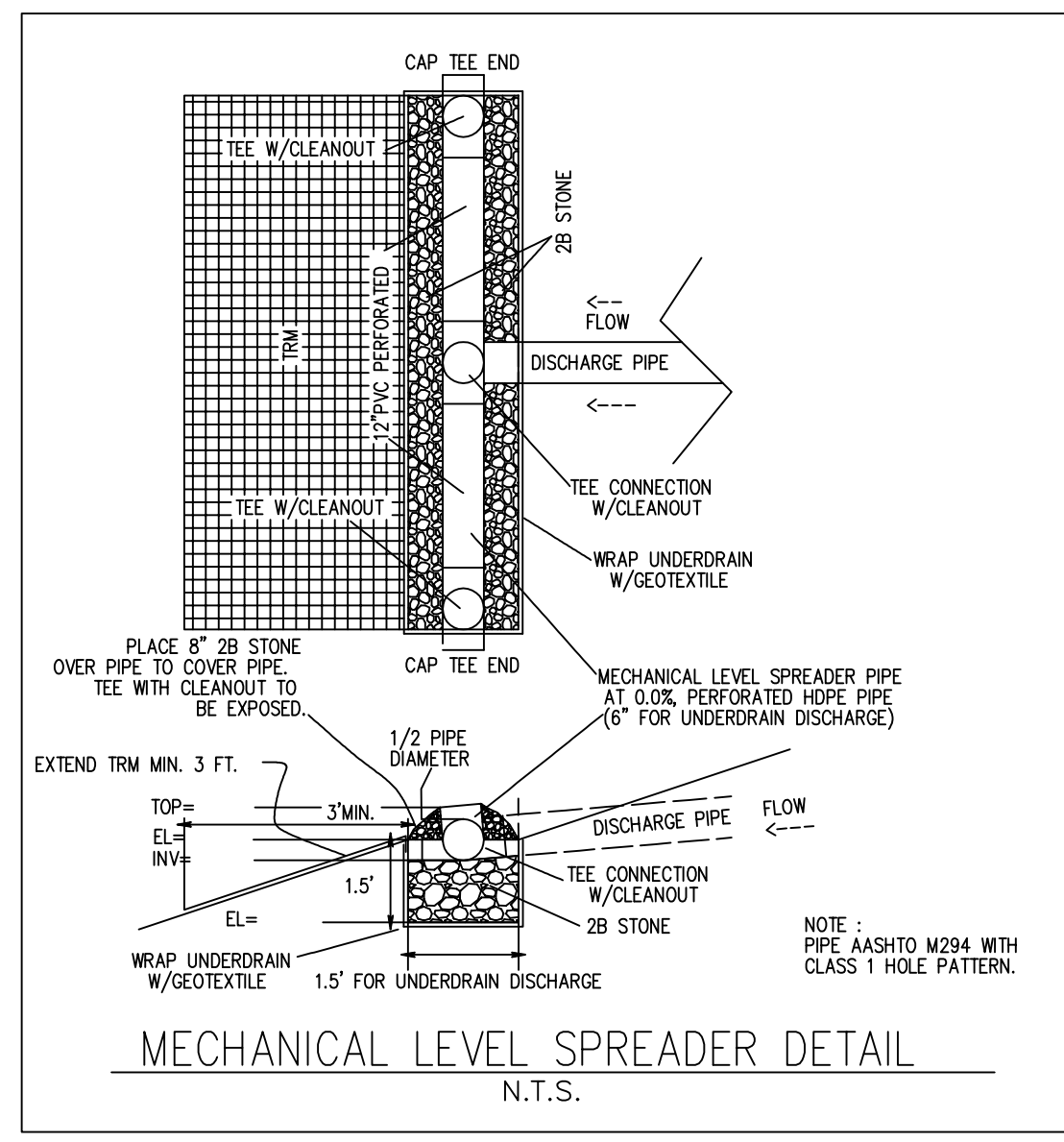
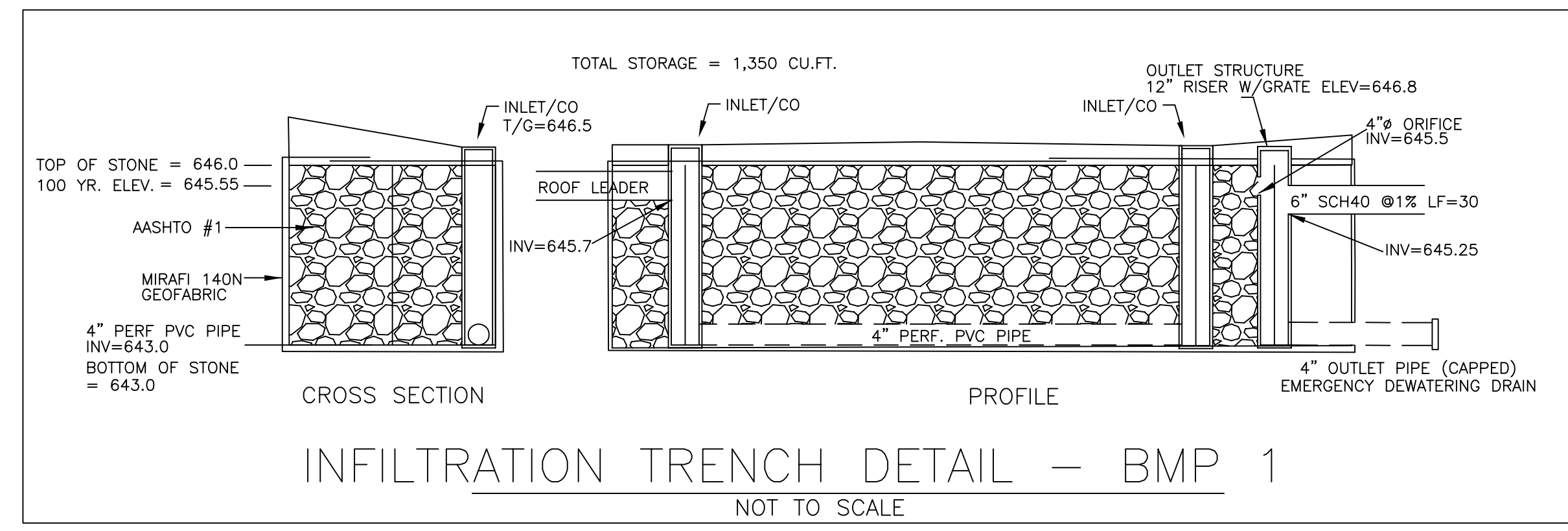
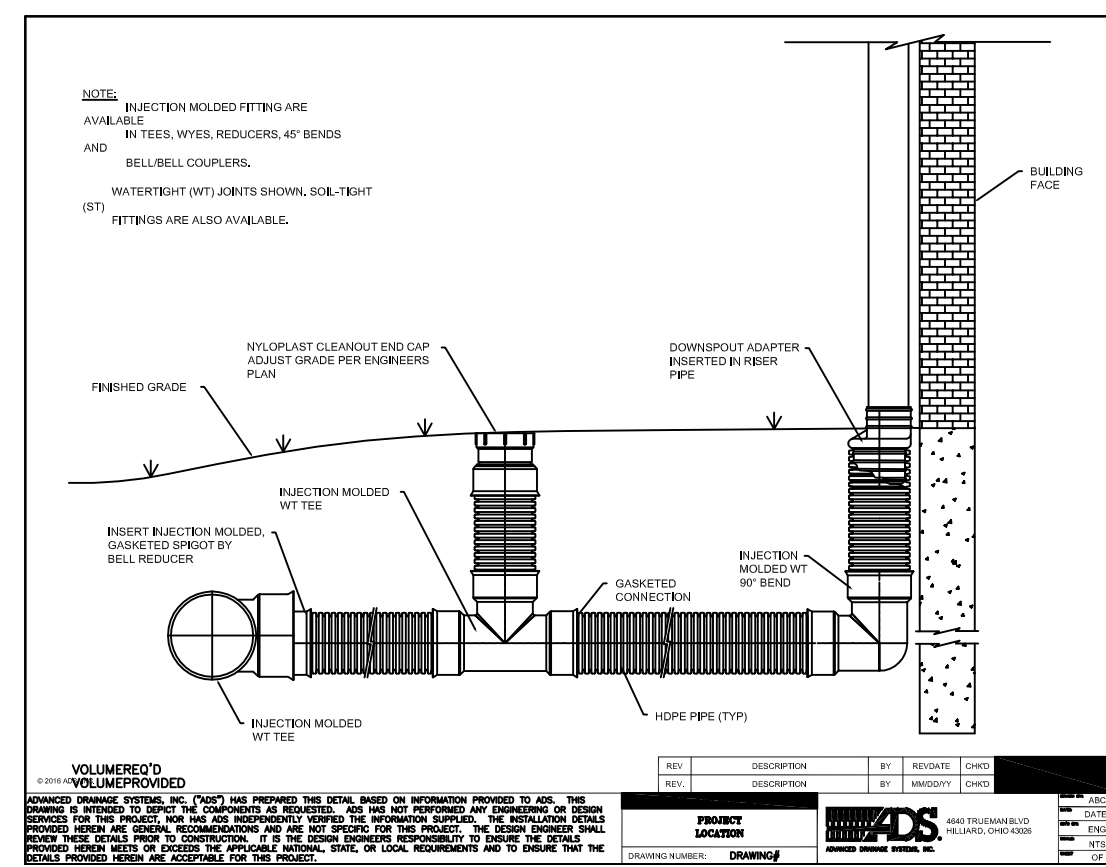
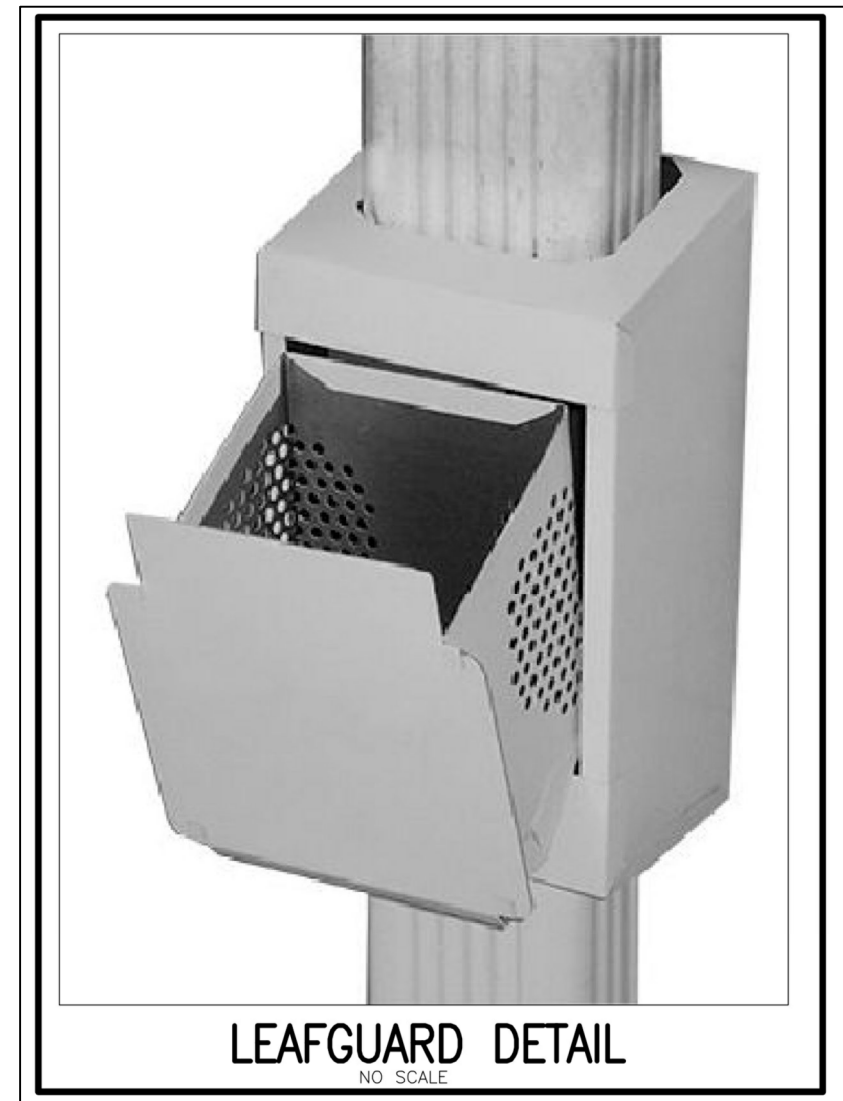


LINCOLN CORPORATE CENTER
10 VANGUARD DRIVE, SUITE 100
READING, PA 19606
PHONE: 610/404-7330
www.ludgate-eng.com

DRAWN		COMP (BNDY)	COMP (LOTS)	PA ONE	COMPUTER FILE
10-9-25				CALL DATE	C:\8000725.PRO
SCALE		TAX MAP PARCEL		DRAWING NUMBER	
1"=20'				D-8000725 SHEET 5 OF 7	

REVISION	DATE	DESCRIPTION

Project Date: 10/25/2024; Path: C:\Users\whorl\Desktop\WDC\CD\8000725.dwg; Plot Date/Time: Wed Feb 25, 2026 / 10:21:28



COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

MATERIAL TYPE	3 mil HOPE	5 mil HOPE	5 mil HOPE	MULTI-FILAMENT POLYPROPYLENE (MPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HEMPPP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	BIO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK DIAMETERS	12" 24"	12" 24"	12" 24"	12" 24"	12" 24"
MESH OPENING	2"	2"	2"	2"	2"
TENSILE STRENGTH	26 psi	26 psi	44 psi	202 psi	202 psi
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM D-155)	23% at 1000 hr.	23% at 1000 hr.	100% 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

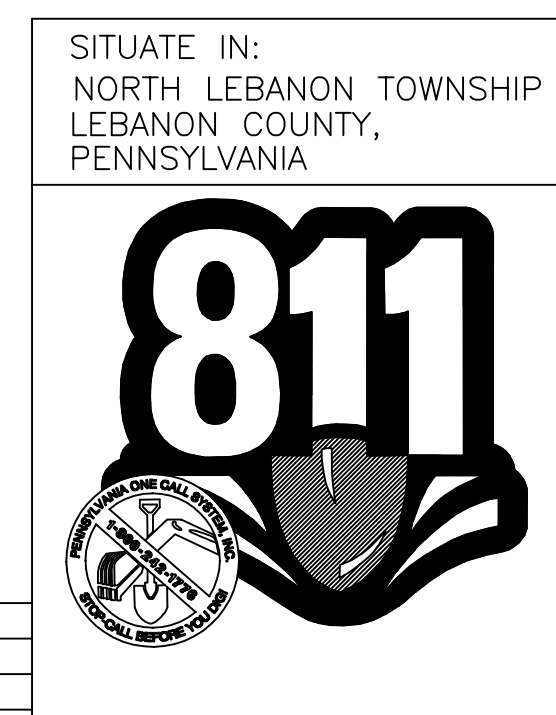
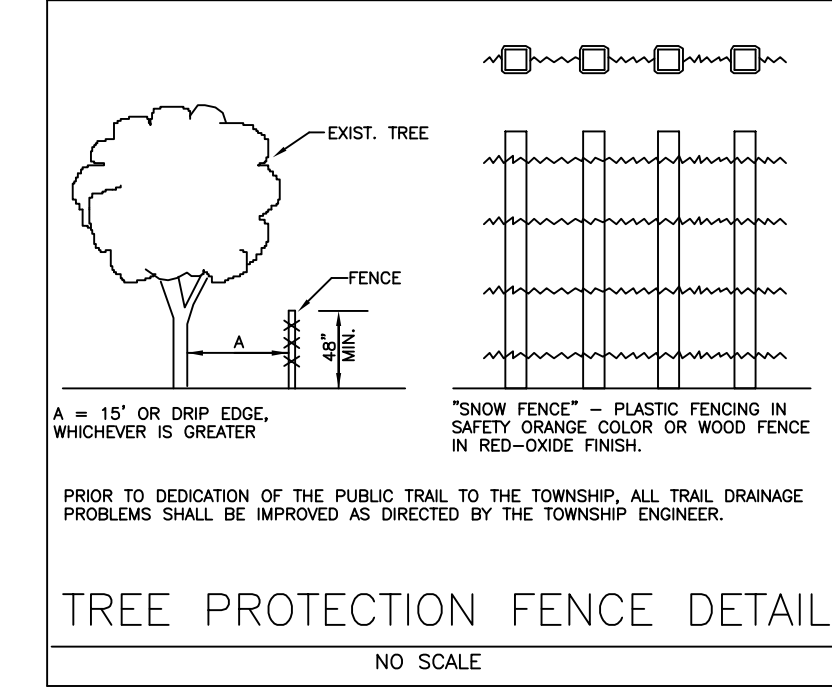
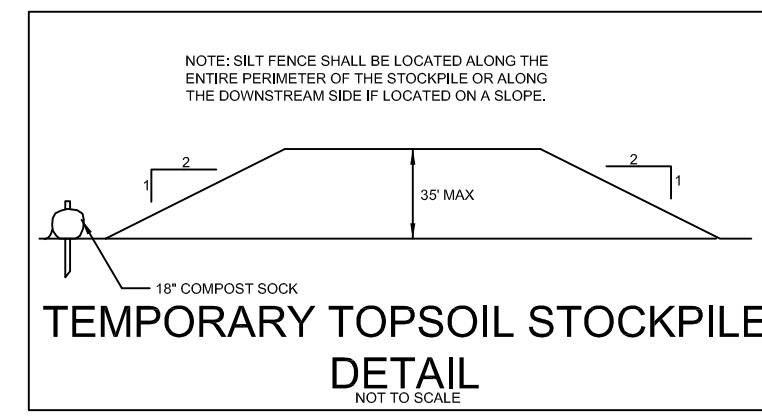
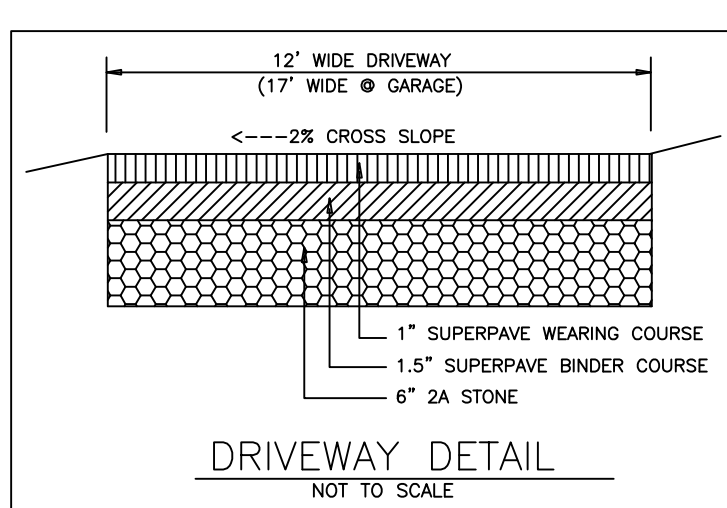
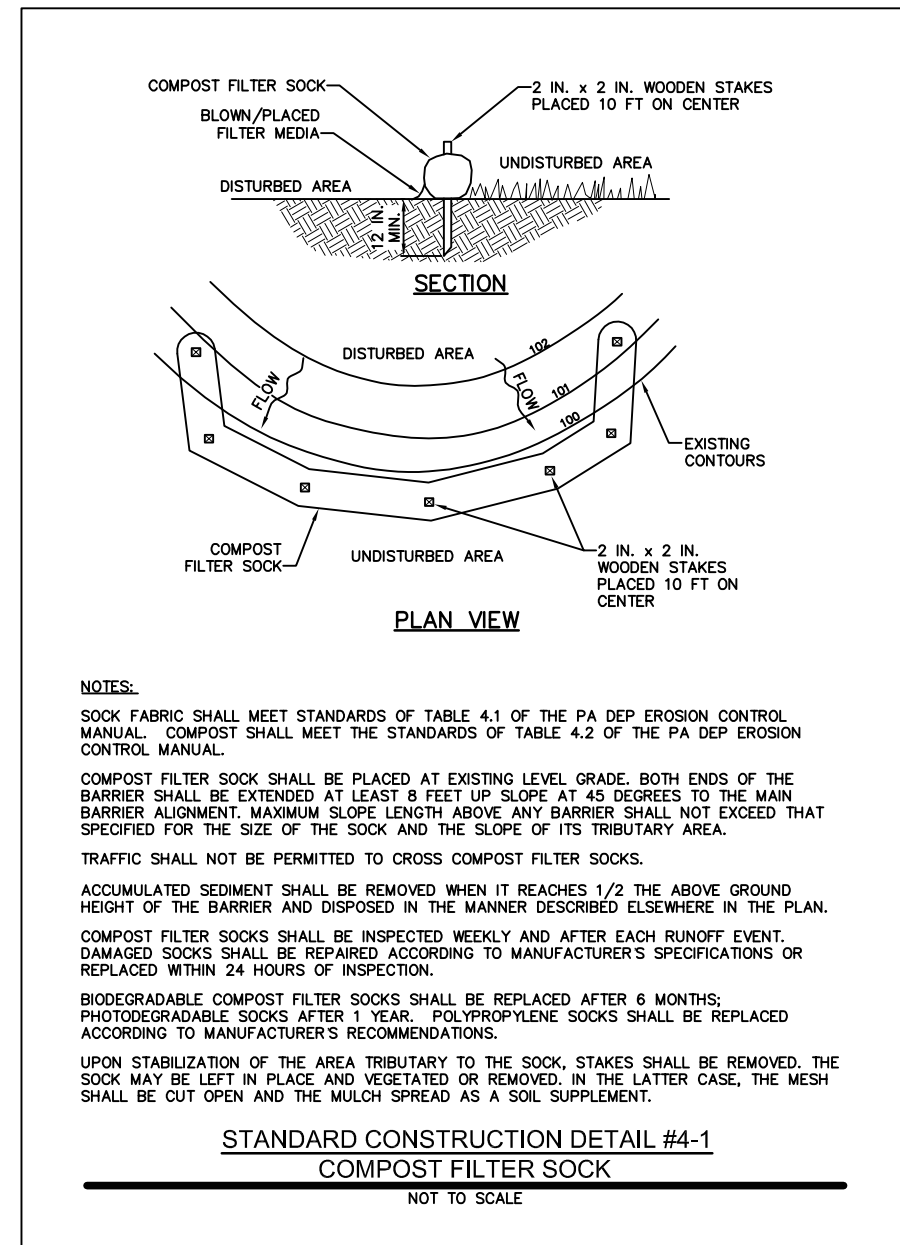
INNER CONTAINMENT NETTING	HOPE BASAL NET CONTINUOUSLY WOVEN FUSION-WELDED JUNCTIONS
OUTER FILTRATION MESH	COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER AND NON-WOVEN FLEECE MECHANICALLY FUSED VIA WEDGE FINCH) 4" MAX. APERTURE SIZE

SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS

COMPOST SHOULD BE A WELL DECOMPOSED, WEED-FREE ORGANIC MATTER DERIVED FROM AGRICULTURE, FOOD, STUMP GRINDINGS, AND YARD OR WOOD/PAVING ORGANIC WASTE SOURCES. THE COMPOST SHOULD BE AEROBICALLY COMPOSTED. THE COMPOST SHOULD POSSESS NO OBJECTIONABLE ODORS AND SHOULD BE REASONABLY FREE (<1% BY DRY WEIGHT) OF MAN-MADE FOREIGN MATTER. THE COMPOST PRODUCT SHOULD NOT RESEMBLE THE RAW MATERIAL FROM WHICH IT WAS DERIVED. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS ARE NOT ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.

THE PHYSICAL PARAMETERS OF THE COMPOST SHOULD COMPLY WITH THE FOLLOWING STANDARDS. THE STANDARDS CONTAINED IN THE PENNYTO FUR 408 ARE AN ACCEPTABLE ALTERNATIVE

ORGANIC MATERIAL CONTENT	COMPOST STANDARDS
ORGANIC PORTION	80% - 100% (DRY WEIGHT BASIS)
pH	5.5 - 8.0
MOISTURE CONTENT	35% - 55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBLE SALT CONCENTRATION	0.5 dr/m (mmho/cm) MAXIMUM



SITUATE IN:
NORTH LEBANON TOWNSHIP
LEBANON COUNTY,
PENNSYLVANIA

811

DETAIL SHEET

BERKS: KIMMERLINGS ROAD

Ludgate Engineering Corporation
ENGINEERS SURVEYORS PLANNERS
ENVIRONMENTAL SCIENTISTS
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LINCOLN CORPORATE CENTER
10 VANGUARD DRIVE, SUITE 100
READING, PA 19606
PHONE 610/404-7330

REVISION	DATE	DESCRIPTION

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10-9-25			SCALE	TAX MAP PARCEL
AS NOTED				DRAWING NUMBER
				D-8000725 SHEET 6 OF 7

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LUDGATE ENGINEERING CORPORATION.

EROSION AND SEDIMENT POLLUTION CONTROL PLAN for Berk - Kimmerlings Road Lebanon, PA 17046

Ludgate Engineering Corporation
10 Vanguard Drive, Suite 90
Reading, PA 19606
Phone: (610)404-7330
Fax: (610)404-7330

Plan prepared by: Ludgate Engineering Corporation
Michael D'Onofrio
Civil Engineer/Technician
EAS/Stormwater seminars

Recent Erosion and Sedimentation Control Plans Prepared:
Name of Project: 228 Moss Street
Municipality: City of Reading
County: Berks

Under direct supervision of Thomas B. Ludgate, PE, PLS and LEED AP

PROJECT NARRATIVE:
The proposed project is the construction of a new home and driveway.

The property size is 0.62 acres, and the Limit of Disturbance is 0.32 acres.

Land Uses: Land use the past 50 years has been as a vacant lot. Land use the past 5 years has been as a vacant lot. The proposed use is as a residential building with a new parking lot.

E&S BMPs to be used: A rock construction entrance, 12 compost socks and a concrete washout will be used. A pumped water filter bag may also be used.

PCSM BMPs to be used: Infiltration beds will be provided. Trees will also be planted.

Maintenance of each BMP - Inspection Schedule and Log Info: Maintenance shall include inspections of all erosion and sediment BMPs after each runoff event and on a weekly basis. All preventative and remedial maintenance work, including clean out, repair, replacement, re-grading, re-seeding, re-mulching and re-netting must be performed immediately. If the E&S BMPs fail to perform as expected, replacement BMPs, or modifications of those installed will be required.

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.

EAS Plan minimizes the extent and duration of earth disturbance. We have sequenced the construction with appropriate temporary stabilization methods to minimize the duration of the earth disturbance.

In no case shall an area exceeding 15,000 square feet, which is to be stabilized by vegetation, reach final grade without being seeded and mulched.

Immediately after earth disturbance activities cease in any area or subarea of the project for a period exceeding 4 days, the operator shall stabilize all disturbed areas. The site shall be immediately seeded, mulched or otherwise protected from accelerated erosion and sedimentation pending future earth disturbance activities. During non-germinating months, mulch or protective blanketing shall be applied as described in the plan. Areas not of finished grade, which will be reworked within 1 year, may not be reworked within 1 year shall be stabilized in accordance with the permanent stabilization specifications. Those areas which will not be reworked within 1 year shall be stabilized in accordance with the permanent stabilization specifications.

Clearing, grubbing, and topsoil stripping shall be limited to those areas described in each stage of the project. Grubbing and topsoil stripping shall be limited to those areas described in each 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.

The entire limit of disturbance boundary must be identified and made visible with stakes, flagging or orange construction fencing prior to beginning work. All work and equipment must remain inside this boundary.

The E&S Plan maximizes protection of existing drainage features and vegetation. The CG-1 is being met and downstream watercourses will not be degraded. Compost socks are installed to capture any sediment laden stormwater.

EAS Plan minimizes soil compaction. The entire limit of disturbance boundary must be identified and made visible with stakes, flagging or orange construction fencing prior to beginning work. All work and equipment must remain inside this boundary.

EAS Plan utilizes other measures or controls that prevent or minimize generation of increased stormwater runoff. Immediately after earth disturbance activities cease in any area or subarea of the project for a period exceeding 4 days, the operator shall stabilize all disturbed areas. The site shall be immediately seeded, mulched or otherwise protected from accelerated erosion and sedimentation pending future earth disturbance activities. During non-germinating months, mulch or protective blanketing shall be applied as described in the plan. Areas not of finished grade, which will be reworked within 1 year, may not be reworked within 1 year shall be stabilized in accordance with the permanent stabilization specifications. Those areas which will not be reworked within 1 year shall be stabilized in accordance with the permanent stabilization specifications.

Installed rock construction entrance and compost socks. Use concrete washout.

Anticipated construction wastes: Anticipated construction wastes are existing asphalt/concrete materials as well as normal construction materials during building conversion.

Recycling or disposal of materials: 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 of 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 the site.

Geologic/soil conditions addressed: Upland lands are not rated for most categories therefore no soil limitations appear. However, the following common-sense soil resolution items should be followed.

In the event groundwater is encountered, the contractor shall employ measures of the pumped water details as shown on the plan.

If bedrock is encountered, notify Design Engineer immediately. Changes may need to occur to the plan. The construction district must be informed of any changes.

Excavation works may be unstable. Contractor shall ensure that proper shoring methods and OSHA safety procedures are utilized to keep workers safe.

Contractor must ensure that areas that have been disturbed will be immediately stabilized with erosion control blanket, stone or whatever is called out in the construction sequence. Keep hay bales in readiness for emergencies.

GENERAL EROSION AND SEDIMENT CONTROL PLAN NOTES:
1. The contractor is advised to become thoroughly familiar with the provisions of the Appendix 6A, Erosion Control Rules and Regulations, Title 25, Part I, Department of Environmental Protection, Subpart C, Protection of Natural Resources, Article II, Water Resources, Chapter 102 Erosion Control.

2. The operator shall assure that the approved erosion and sediment control plan is properly and completely implemented.

3. At 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.

4. The operator shall assure that an erosion and sediment control plan has been prepared, approved by the reviewing agency, and is being implemented and maintained for all soil and/or rock spoil and borrow areas, regardless of their locations.

5. Before initiating any revisions to the erosion and sediment control plan or revisions to other plans which may affect the effectiveness of the approved E&S control plan, the operator must receive approval of the revisions from the reviewing agency.

6. All pumping of water from any work area or site be done according to the procedure described in this plan, over undisturbed vegetated areas. Discharge points should be established to provide for maximum distance to locate waterways.

7. Steps or springs encountered during construction shall be handled in accordance with the standard and specification for the subsurface drain or other approved method.

8. Concrete washout 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. Concrete washout must be a minimum of 50 feet from drains, ditches and waterways on a maximum slope of 2%. Material must be removed when it reaches 75% of total storage and liners must be replaced with each cleaning.

Production of Infiltration BMPs:
1. Construction of the BMP area shall be avoided and minimized during construction.

2. E&S BMPs shall be installed and maintained during and after construction of the infiltration BMPs to prevent sediment from clogging or filling the PCSM BMP or storage facility.

3. To the maximum extent practicable, PCSM BMPs shall be constructed after permanent stabilization has been achieved on all contributing drainage areas.

Utility Line Trench Construction Notes:
1. All excavation for utility line installation shall be limited to the amount that can be excavated, installed, backfilled and stabilized within one working day. All excavated material shall be deposited on the upslope side of the trench. Water pumped must be treated with a filter bag.

2. Limit advanced clearing and grubbing operations to a distance equal to two times the length of pipe installation that can be completed in one day.

3. Work crews and equipment for trenching, placement of pipe, pipe construction and backfilling will be self-contained and separate from clearing and grubbing and site restoration and stabilization operations.

4. Water which accumulates in the open trench will be completely removed by pumping before pipe placement and/or backfilling begins. Water removed from the trench shall be pumped through a filtration device.

5. Soils excavated from existing surface water shall be stockpiled separately and returned as final surface layer following backfilling. A minimum of 6" of topsoil must top the backfilled area.

6. On the day following pipe placement and trench backfilling, the disturbed area will be graded to final contours and immediately stabilized.

RECYCLING:
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 of 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 the site.

BORROW/WASTE AREAS/FILLS:
All off-site areas and borrow areas must have an E&S plan approved by the local conservation district or the Department fully implemented prior to being activated.

2. 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 that qualifies as Clean Fill as to the material being

3. If the site will need to import or export material from another site, the responsibility for performing environmental due diligence and determination of clean fill will rest with Permittee

4. Clean fill is defined as: Uncontaminated, non-erodible, non-toxic, non-combustible, inert, solid material. The term includes soil, rock, stone, dredged material, used asphalt, and brick, block or concrete from

SOIL LIMITATIONS	SOIL RESOLUTIONS	BKB
Outbanks Cave	Layback slopes - follow OSHA rules for safety	X
Corrosion to Concrete/Steel	Corrosive resistant concrete - protective barrier between water and the steel - galvanized steel	C
Droughty	Compost mix to hold in moisture	X
Easily Erodible	Maintain erosion control BMPs	X
Flooding	Layback slopes/design for conditions	---
Depth to Saturated Zone/Seasonal High Water Table	Pumped water filter, footer drains	---
Hydrolydic inclusions	Avoidance, pumped water filter bags, trench plugs	X
Low Strength/Landslide Prone	Drainage ditch, pumped water filter bag	---
Slow Percolation	Maintain erosion control BMPs	X
Piping	Trench plugs	---
Poor Source of Topsoil	Avoid reuse as topsoil or amend as necessary	X
Frost Action	Construct below frost depths/positive subgrade	X
Shrink-Swell	---	---
Potential Sinkhole	Provide positive drainage	---
Ponding	Design for conditions - drainage trenches, pumped water filter bag, sump pumps, footer drains	---
Wetness	Trench plugs	---
Depth to Restrictive Layer	Test to determine depth, design for conditions	>200

LIMITATIONS/RESOLUTIONS:

In the event groundwater is encountered, the contractor shall employ measures of the pumped water details as shown on the plan. All soils are typic so the water table may be encountered during earth work. If ground water is encountered, notify the Design Engineer immediately since some changes to the plan may need to occur. All changes may be approved by the conservation district prior to taking place.

If bedrock is encountered, notify Design Engineer immediately. Changes may need to occur to the plan. All changes must be approved by the conservation district prior to taking place.

Contractor shall ensure that proper shoring methods and safety procedures are utilized to keep workers safe during building conversion.

Embankments and basin sides may need to be reinforced with clay to limit seepage and piping problems.

Frost action is possible. Effort must be made to keep water away from limped areas and silt to drainage BMPs. A mixture of sand and gravel may need to be added to paved areas.

Erosion of concrete is possible. The appropriate choice of concrete mix and chemical during production can help. Also, surface treatments may be used to protect against erosion.

Erosion of steel is likely. Use a protective barrier between water and the steel such as a protective coating, marine paint or zinc galvanized metal.

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construction and demolition activities that is separate from other waste and is recognizable as such. The term does not include materials placed in or on the waters of the Commonwealth unless otherwise authorized. (The term "used asphalt" does not include milled asphalt or asphalt that has been processed for re-use.)

b. Clean Fill affected by a spill or release of a regulated substance: Fill materials affected by a spill or release of a regulated substance shall be removed from the site and disposed of in accordance with the fill materials concentration for regulated substances that are below the residential limits in Tables 101-1a and 101-1b to be used in the Department's policy "Management of Fill." Any person placing clean fill that has been affected by a spill or release of a regulated substance must use Form FP-001 to certify the origin of the fill material and the results of the analytical testing to qualify the material as clean fill. FP-001 must be retained by the property owner for any fill material affected by a spill or release of a regulated substance. The applicant must perform environmental due diligence to determine if the fill materials associated with clean fill. Environmental due diligence is defined as:

Investigative techniques, including, but not limited to, visual property inspections, electronic data base searches, review of property ownership, review of property use history, zoning maps, environmental questionnaires, transaction records, analytical testing, environmental assessments or audits. Analytical testing is not a required part of due diligence unless visual inspection and/or review of the past land use of the property and/or the fill material have been subjected to a spill or release of a regulated substance. If the fill may have been affected by a spill or release of a regulated substance, testing should be tested to determine if it qualifies as clean fill. Testing should be performed in accordance with Appendix A of the Department's policy "Management of Fill." Fill material that does not qualify as Clean Fill is regulated. Regulated fill is waste and must be managed in accordance with the Department's policy "Management of Fill." Environmental due diligence is defined as:

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