PRELIMINARY/FINAL PLAN

# 1763 BROADWAY MINOR SUBDIVISION

1763 BROADWAY, BETHLEHEM, PA 18105 SALISBURY TOWNSHIP, LEHIGH COUNTY, PENNSYLVANIA MARCH 28, 2025

1230 TWEED AVENUE

SITE DATA	
RECORD OWNER:	GREEN HAMMER PROPERTIES, LLC
PROPERTY ADDRESS:	1763 BROADWA BETHLEHEM, PA 1810
TAX ASSESSMENT PARCEL I.D.:	641678957563
INSTRUMENT NO.:	2023024923
LOT AREA:	18,750 S.F. OR 0.43 AC
WATER:	PUBLIC
SANITARY SEWER:	PUBLIC
ZONING DISTRICT:	MEDIUM DENSITY RESIDENTIAL R-4

ME	DIUM DENSITY RESIDE	ENTIAL R-4 DISTRICT	AREA, YARD AND HE	IGHT RESTRICTIONS	
	SINGLE FAMIL	LY DETACHED		TWIN	
MAXIMUM PERMITTED	REQUIRED	PROVIDED (LOT 1)	REQUIRED	PROVIDED (LOT 2)	PROVIDED (LOT 3)
BUILDING HEIGHT	35 FEET	< 35 FEET	35 FEET	< 35 FEET	< 35 FEET
STORIES	2.5	2	2.5	2	2
LOT COVERAGE	60%	28%	60%	34%	34%
BUILDING COVERAGE	35%	12%	35%	15%	15%
MINIMUM REQUIREMENTS					
LOT AREA	6,000 SQUARE FEET	8,750 SQUARE FEET	4,500 SQUARE FEET	5,000 SQUARE FEET	5,000 SQUARE FEET
LOT WIDTH AT STREET LINE	25 FEET	70 FEET	25 FEET	40 FEET	40 FEET
AT BUILDING SETBACK	50 FEET	70 FEET	40 FEET	40 FEET	40 FEET
BUILDING SETBACK LINE-FRONT	25 FEET	40 FEET	25 FEET	35 FEET	35 FEET
SIDE YARD	6 FEET	14.63 FEET	6 FEET	19.50 FEET	19.50 FEET
TOTAL	18 FEET	32.96 FEET	18 FEET	19.50 FEET	19.50 FEET
REAR YARD	35 FEET	56.95 FEET	35 FEET	54 FEET	54 FEET

### ONE CALL NOTE:

THE APPLICANT IS RESPONSIBLE FOR JOINING THE PA ONE CALL SYSTEM AND IS RESPONSIBLE FOR MARKING OF ALL UNDERGROUND UTILITIES PRIOR TO THE UTILITIES BEING FORMALLY ACCEPTED BY AND DEDICATED TO THE TOWNSHIP.



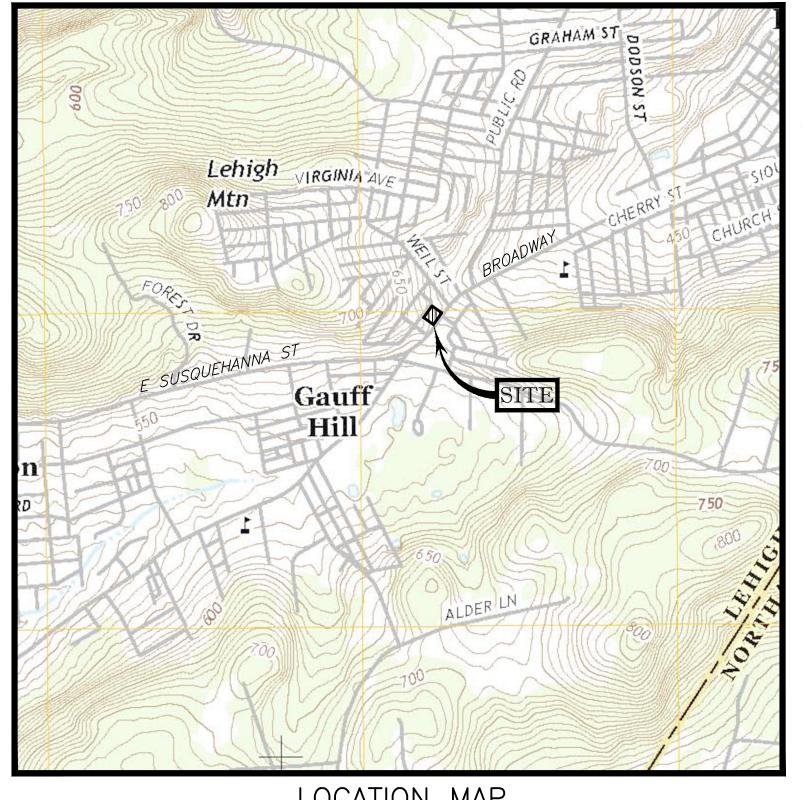
DIAL 8-1-1 OR 1-800-242-1776 NOT LESS THAN 3 BUSINESS DAYS NOR MORE THAN 10 BUSINESS DAYS PRIOR TO THE START OF EXCAVATION.

PENNSYLVANIA ONE CALL SYSTEM SERIAL NUMBER 20232991298 -000 PENNSYLVANIA ONE CALL SYSTEM FINAL DESIGN SERIAL NUMBER

KEYSTONE CONSULTING ENGINEERS, INC., HAS PREPARED THESE TOPOGRAPHIC DRAWINGS FOR THE PURPOSE OF THE DESIGN OF THE SUBDIVISION OR LAND DEVELOPMENT IMPROVEMENTS SHOWN. PURSUANT TO THE REQUIREMENTS OF PA ACT 287 OF 1974, AS AMENDED, KEYSTONE CONSULTING ENGINEERS, INC.,

. REQUESTED THE LINE AND FACILITY INFORMATION FROM A ONE CALL SYSTEM NOT LESS THAN TEN NOR MORE THAN NINETY WORKING DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED. 2. SHOWN UPON THE DRAWINGS THE POSITION AND TYPE OF EACH FACILITY OWNER'S LINE, DERIVED PURSUANT TO THE REQUEST MADE, INCLUDING THE

FACILITY OWNER'S NAME, OFFICE ADDRESS AND TELEPHONE NUMBER AS SHOWN ON THE LIST MAINTAINED BY THE ONE-CALL SYSTEM; MADE A REASONABLE EFFORT IN PREPARATION OF THE CONSTRUCTION DRAWINGS TO AVOID DAMAGE TO AND MINIMIZE INTERFERENCE WITH THE FACILITY OWNER'S FACILITIES IN THE CONSTRUCTION AREA BY MAINTAINING AN EIGHTEEN-INCH CLEARANCE OF THE FACILITY OWNER'S FACILITIES; SHOWN UPON THE DRAWINGS THE SERIAL NUMBER AND DATE OF THE ONE CALL NOTICE. KEYSTONE CONSULTING ENGINEERS, INC., MAKES NO REPRESENTATION, ASSURANCE OR GUARANTEE THAT THE INFORMATION OBTAINED AS NOTED ABOVE AND ILLUSTRATED HEREON ACCURATELY DEPICTS FIELD CONDITIONS. ALL CONTRACTORS PERFORMING ACTUAL EXCAVATION OR DEMOLITION WORK ON THIS SITE ARE HEREBY ALERTED TO THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ONE-CALL SYSTEM AS REQUIRED BY ACT 287, AS AMENDED.



# LOCATION MAP

SCALE: 1" =1000 ft.

## PENNDOT PERMIT REFERENCES

A PENNDOT HIGHWAY OCCUPANCY PERMIT FOR LOT NO. 1 IS REQUIRED PURSUANT TO SECTION 420 OF THE ACT OF JUNE 1, 1945 (P.L. 1242, NO. 428), KNOWN AS THE "STATE HIGHWAY LAW," BEFORE DRIVEWAY ACCESS TO A STATE HIGHWAY IS PERMITTED. ACCESS TO THE STATE HIGHWAY SHALL BE ONLY AS AUTHORIZED BY A PENNDOT HIGHWAY OCCUPANCY PERMIT. NO BUILDING PERMITS, ZONING PERMITS OR CERTIFICATES OF OCCUPANCY SHALL BE ISSUED FOR SAID LOT UNTIL SUCH TIME AS A PENNDOT HIGHWAY OCCUPANCY PERMIT HAS BEEN SECURED AND FILED WITH THE TOWNSHIP. THE TOWNSHIP SHALL NOT BE HELD LIABLE FOR DAMAGES TO PERSONS OR PROPERTY ARISING OUT OF ISSUANCE OR DENIAL OF A HIGHWAY OCCUPANCY PERMIT BY THE PA. DEPARTMENT OF TRANSPORTATION, PURSUANT TO SECTION 508 OF THE PA. MUNICIPALITIES PLANNING CODE.

### SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THE ABOVE PLAN AND SURVEY TO BE CORRECT IN ALL ITS DETAILS

KEYSTONE CONSULTING ENGINEERS, INC. 2870 EMERICK BOULEVARD, BETHLEHEM PA, 18020

### **ENGINEER'S CERTIFICATION**

I, JONATHAN M. ROGERS, A LICENSED PROFESSIONAL ENGINEER OF THE COMMONWEALTH OF PENNSYLVANIA, DO HEREBY CERTIFY THE ABOVE PLAN AND SURVEY TO BE CORRECT IN ALL ITS

JONATHAN M. ROGERS, P.E. 092322, KEYSTONE CONSULTING ENGINEERS, INC. 5012 MEDICAL CENTER CIRCLE, SUITE 1 ALLENTOWN, PA 18106

### **OWNER'S STATEMENT**

I/WE, THE OWNER(S) OF THIS PLAT OF LAND BEING DULY SWORN ACCORDING TO LAW, DEPOSE AND STATE THAT I AM/WE ARE THE SOLE OWNER(S) OF THIS PROPERTY IN PEACEFUL POSSESSION OF IT AND THAT THERE ARE NO SUITS PENDING AFFECTING THE TITLE OF SAME. AND THAT I/WE HEREBY DEDICATE TO THE TOWNSHIP OF SALISBURY FOR PUBLIC USE ALL THE ROAD RIGHTS-OF-WAY, UTILITY EASEMENTS AND RIGHT-OF-WAY OF PUBLIC IMPROVEMENTS SUCH AS SEWER LINES AND STORM DRAINAGE FACILITIES AS SHOWN ON THIS SUBDIVISION PLAN. I/WE DO FURTHER DEPOSE AND STATE THAT I/WE HAVE COMPLIED WITH ALL THE REQUIREMENTS AND PROVISIONS OF THE SALISBURY TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND SHALL SAVE THE TOWNSHIP HARMLESS AND INDEMNIFY THE TOWNSHIP OF SALISBURY AGAINST ANY LIABILITY OR LOSS RESULTING FROM THE SUBDIVISION OF THIS PLAT FOR WHATEVER REASONS PRESENT OR

NAME OF OWNER	NAME OF OWNER
SWORN AND SUBSCRIBED BEFORE ME THIS	DAY, DAY OF, 20
NOTARY PUBLIC	

SHEET INDEX SHEET 1 OF 8 TITLE SHEET SHEET 2 OF 8 SHEET 4 OF 8 GRADING AND DRAINAGE PLAN CONSTRUCTION DETAILS EROSION AND SEDIMENTATION CONTROL PLAN \* DENOTES PLAN TO BE RECORDED

### SALISBURY TOWNSHIP ENGINEER REVIEW

APPROVED BY THE SALISBURY TOWNSHIP PLANNING COMMISSION

CHAIRMAN	DATE

# LEHIGH VALLEY PLANNING COMMISSION REVIEW

REVIEWED BY THE LEHIGH VALLEY PLANNING COMMISSION OF LEHIGH AND NORTHAMPTON COUNTIES.

LVPC STAFF PERSON RESPONSIBLE FOR REVIEW DATE

### RECORDER OF DEEDS

RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS LEHIGH COUNTY, PENNSYLVANIA ON \_\_\_\_\_\_ 20 IN MAP BOOK VOLUME

LEHIGH COUNTY RECORDER OF DEEDS

Site Design By:

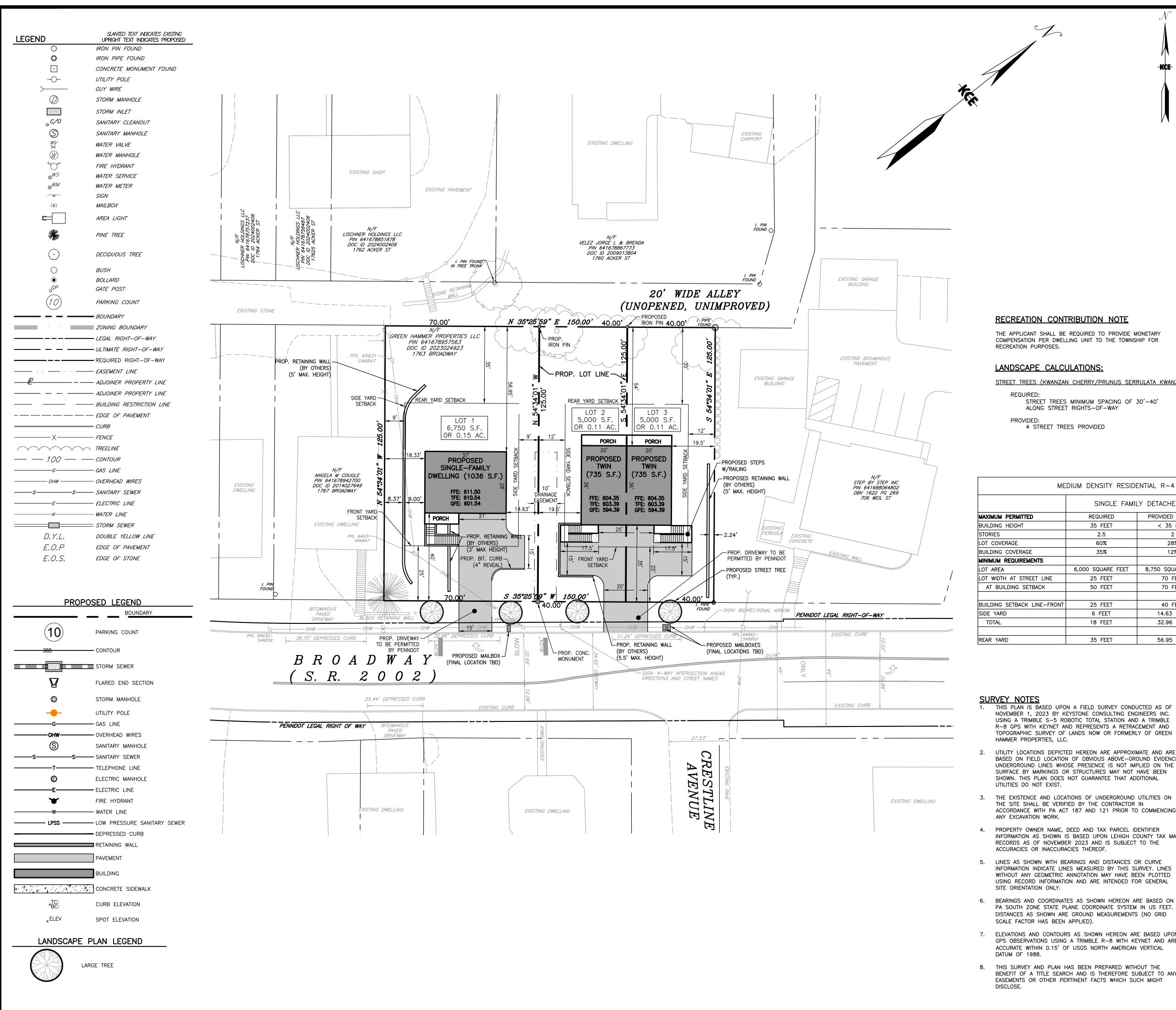


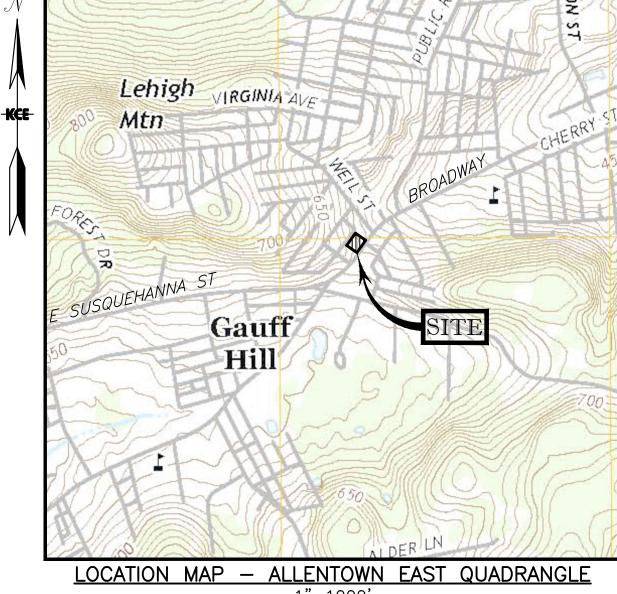
Civil Engineers & Surveyors

5012 Medical Center Circle Suite 1, Allentown, PA 18106 610-395-0971 (P) 610-391-8942 (F)

www.KCEinc.com

East Office: Bethlehem, West Office: Allentown, North Office: Kresgeville





1"=1000'

### RECREATION CONTRIBUTION NOTE

THE APPLICANT SHALL BE REQUIRED TO PROVIDE MONETARY COMPENSATION PER DWELLING UNIT TO THE TOWNSHIP FOR RECREATION PURPOSES.

### **LANDSCAPE CALCULATIONS:**

STREET TREES (KWANZAN CHERRY/PRUNUS SERRULATA KWANZAN):

STREET TREES MINIMUM SPACING OF 30'-40' ALONG STREET RIGHTS-OF-WAY

4 STREET TREES PROVIDED

### RECORD OWNER/APPLICANT

GREEN HAMMER PROPERTIES LLC 1230 TWEED AVENUE ALLENTOWN, PA 18103

### SITE DATA

RECORD OWNER: PROPERTY ADDRESS: TAX ASSESSMENT PARCEL I.D.: **INSTRUMENT NO.:** LOT AREA: WATER:

641678957563 2023024923 18,750 S.F. OR 0.43 AC. **PUBLIC PUBLIC** 

BETHLEHEM, PA 18105

1763 BROADWAY

GREEN HAMMER PROPERTIES, LLC

SANITARY SEWER: ZONING DISTRICT: MEDIUM DENSITY RESIDENTIAL R-4

MEI	DIUM DENSITY RESIDI	ENTIAL R-4 DISTRICT	AREA, YARD AND HE	IGHT RESTRICTIONS	
	SINGLE FAMILY DETACHED		TWIN		
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- THIS PLAN IS BASED UPON A FIELD SURVEY CONDUCTED AS OF NOVEMBER 1, 2023 BY KEYSTONE CONSULTING ENGINEERS INC. USING A TRIMBLE S-5 ROBOTIC TOTAL STATION AND A TRIMBLE R-8 GPS WITH KEYNET AND REPRESENTS A RETRACEMENT AND TOPOGRAPHIC SURVEY OF LANDS NOW OR FORMERLY OF GREEN HAMMER PROPERTIES, LLC.
- UTILITY LOCATIONS DEPICTED HEREON ARE APPROXIMATE AND ARE BASED ON FIELD LOCATION OF OBVIOUS ABOVE-GROUND EVIDENCE. UNDERGROUND LINES WHOSE PRESENCE IS NOT IMPLIED ON THE SURFACE BY MARKINGS OR STRUCTURES MAY NOT HAVE BEEN SHOWN. THIS PLAN DOES NOT GUARANTEE THAT ADDITIONAL
- THE EXISTENCE AND LOCATIONS OF UNDERGROUND UTILITIES ON THE SITE SHALL BE VERIFIED BY THE CONTRACTOR IN ACCORDANCE WITH PA ACT 187 AND 121 PRIOR TO COMMENCING ANY EXCAVATION WORK.
- PROPERTY OWNER NAME, DEED AND TAX PARCEL IDENTIFIER INFORMATION AS SHOWN IS BASED UPON LEHIGH COUNTY TAX MAP RECORDS AS OF NOVEMBER 2023 AND IS SUBJECT TO THE ACCURACIES OR INACCURACIES THEREOF.
- INFORMATION INDICATE LINES MEASURED BY THIS SURVEY. LINES WITHOUT ANY GEOMETRIC ANNOTATION MAY HAVE BEEN PLOTTED USING RECORD INFORMATION AND ARE INTENDED FOR GENERAL SITE ORIENTATION ONLY.
- PA SOUTH ZONE STATE PLANE COORDINATE SYSTEM IN US FEET. DISTANCES AS SHOWN ARE GROUND MEASUREMENTS (NO GRID SCALE FACTOR HAS BEEN APPLIED).
- 7. ELEVATIONS AND CONTOURS AS SHOWN HEREON ARE BASED UPON GPS OBSERVATIONS USING A TRIMBLE R-8 WITH KEYNET AND ARE ACCURATE WITHIN 0.15' OF USGS NORTH AMERICAN VERTICAL
- 8. THIS SURVEY AND PLAN HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE SEARCH AND IS THEREFORE SUBJECT TO ANY EASEMENTS OR OTHER PERTINENT FACTS WHICH SUCH MIGHT



DIAL 8-1-1 OR 1-800-242-1776 NOT LESS THAN 3 BUSINESS DAYS NOR MORE THAN 10 BUSINESS DAYS PRIOR TO THE START OF EXCAVATION.

PENNSYLVANIA ONE CALL SYSTEM SERIAL NUMBER 20232991298 -000

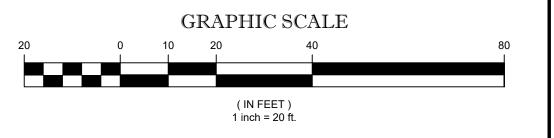
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- 3. MADE A REASONABLE EFFORT IN PREPARATION OF THE CONSTRUCTION DRAWINGS TO AVOID DAMAGE TO AND MINIMIZE INTERFERENCE WITH THE FACILITY OWNER'S FACILITIES IN THE CONSTRUCTION AREA BY MAINTAINING AN EIGHTEEN-INCH CLEARANCE OF THE FACILITY OWNER'S FACILITIES;
- 4. SHOWN UPON THE DRAWINGS THE SERIAL NUMBER AND DATE OF THE ONE CALL NOTICE. KEYSTONE CONSULTING ENGINEERS, INC., MAKES NO REPRESENTATION, ASSURANCE OR GUARANTEE THAT THE INFORMATION OBTAINED AS NOTED ABOVE AND ILLUSTRATED HEREON ACCURATELY DEPICTS FIELD CONDITIONS. ALL CONTRACTORS PERFORMING ACTUAL EXCAVATION OR DEMOLITION WORK ON THIS SITE ARE HEREBY ALERTED TO THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ONE-CALL SYSTEM AS REQUIRED BY ACT 287, AS AMENDED.



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RECORD/SUBDIVISION PLAN

BROADWAY MINOR SUBDIVIS

BETHLEHEM, PA 18015 63

S.W.L.

E.O.P

C.L.F.

UTILITIES BEING FORMALLY ACCEPTED BY AND DEDICATED TO THE TOWNSHIP.

THE APPLICANT IS RESPONSIBLE FOR JOINING THE PA ONE CALL SYSTEM AND

IS RESPONSIBLE FOR MARKING OF ALL UNDERGROUND UTILITIES PRIOR TO THE

SOLID WHITE LINE

EDGE OF PAVEMENT

CHAIN LINK FENCE

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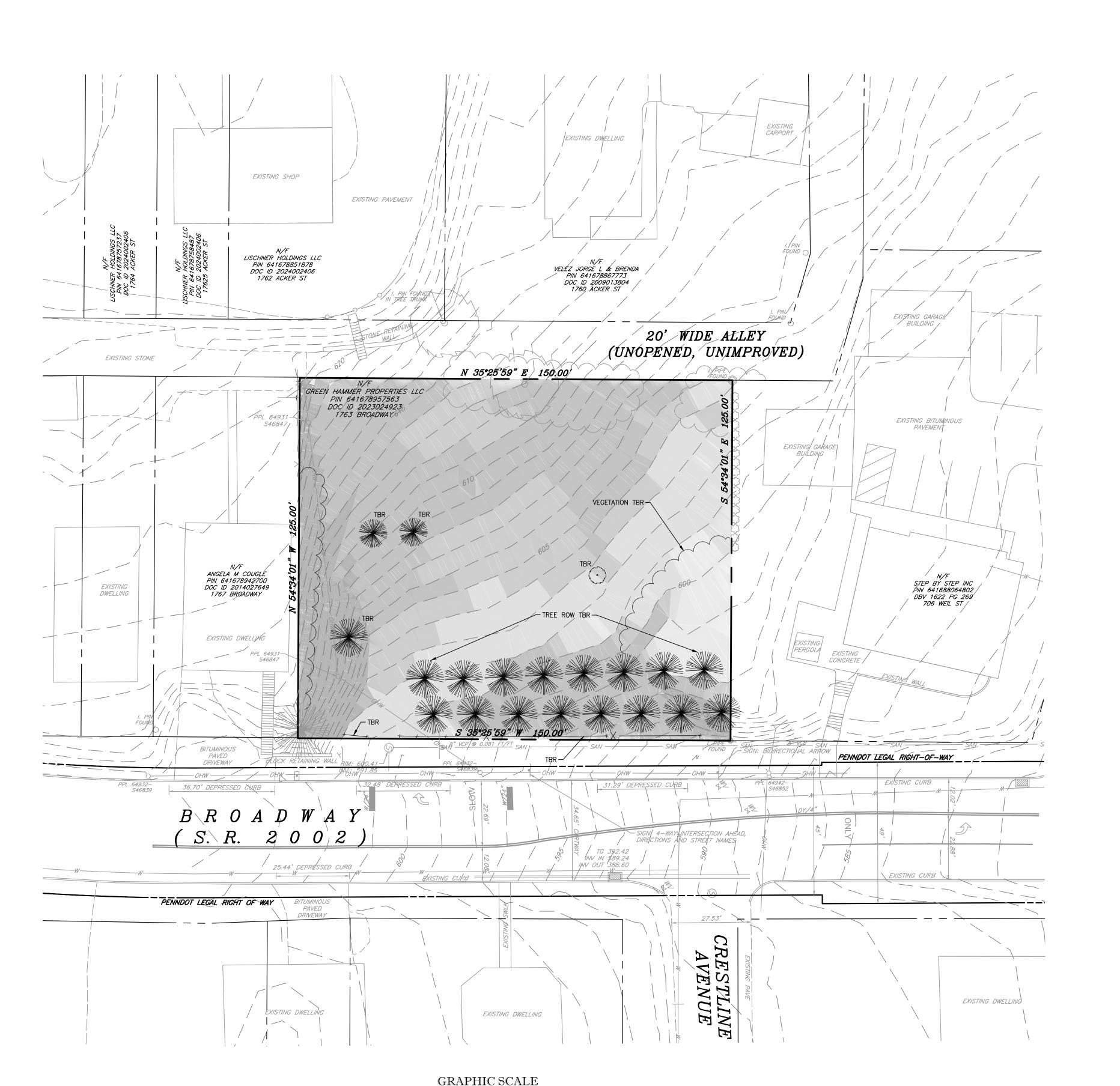
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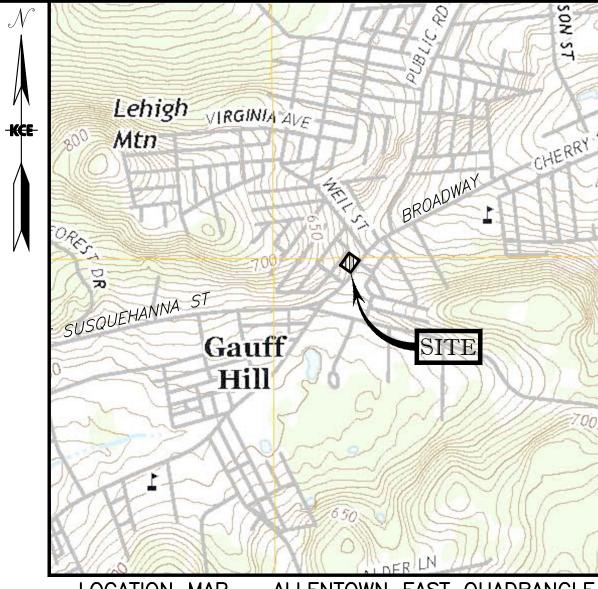
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PROJECT BENCHMARK ELEV. = 600.41 (NAVD 88 DATUM) MANHOLE LOCATED ON THE SOUTHWEST CORNER OF THE PROJECT.



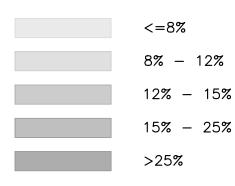
(IN FEET)

1 inch = 20 ft.



LOCATION MAP - ALLENTOWN EAST QUADRANGLE 1"=1000'

### **SLOPE ZONE LEGEND**



## **SURVEY NOTES**

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- 3. THE EXISTENCE AND LOCATIONS OF UNDERGROUND UTILITIES ON THE SITE SHALL BE VERIFIED BY THE CONTRACTOR IN ACCORDANCE WITH PA ACT 187 AND 121 PRIOR TO COMMENCING ANY EXCAVATION WORK.
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- 5. LINES AS SHOWN WITH BEARINGS AND DISTANCES OR CURVE INFORMATION INDICATE LINES MEASURED BY THIS SURVEY. LINES WITHOUT ANY GEOMETRIC ANNOTATION MAY HAVE BEEN PLOTTED USING RECORD INFORMATION AND ARE INTENDED FOR GENERAL SITE ORIENTATION ONLY.
- 6. BEARINGS AND COORDINATES AS SHOWN HEREON ARE BASED ON PA SOUTH ZONE STATE PLANE COORDINATE SYSTEM IN US FEET. DISTANCES AS SHOWN ARE GROUND MEASUREMENTS (NO GRID SCALE FACTOR HAS BEEN APPLIED).
- 7. ELEVATIONS AND CONTOURS AS SHOWN HEREON ARE BASED UPON GPS OBSERVATIONS USING A TRIMBLE R-8 WITH KEYNET AND ARE ACCURATE WITHIN 0.15' OF USGS NORTH AMERICAN VERTICAL DATUM OF 1988.
- 8. THIS SURVEY AND PLAN HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE SEARCH AND IS THEREFORE SUBJECT TO ANY EASEMENTS OR OTHER PERTINENT FACTS WHICH SUCH MIGHT DISCLOSE.

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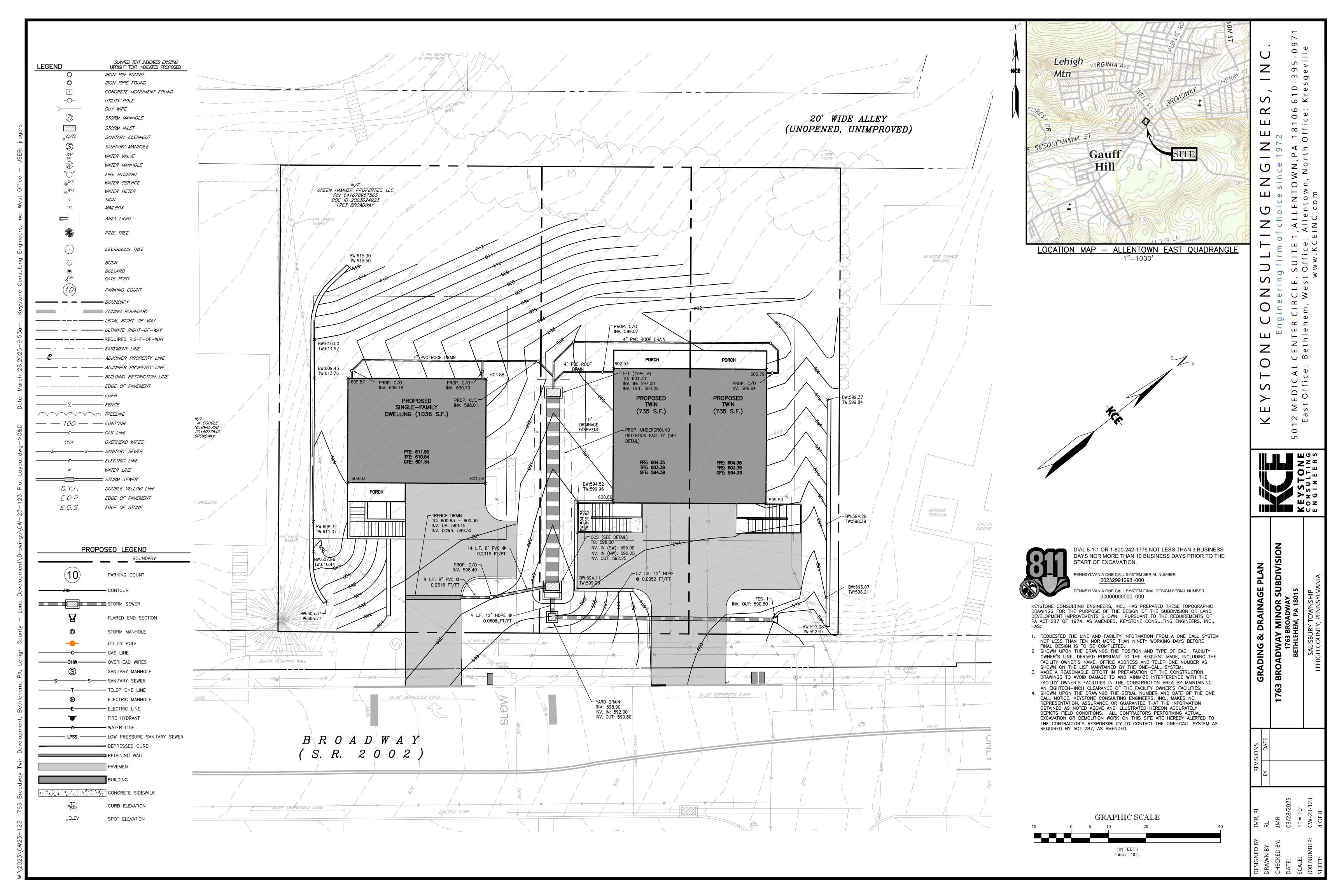
PLAN

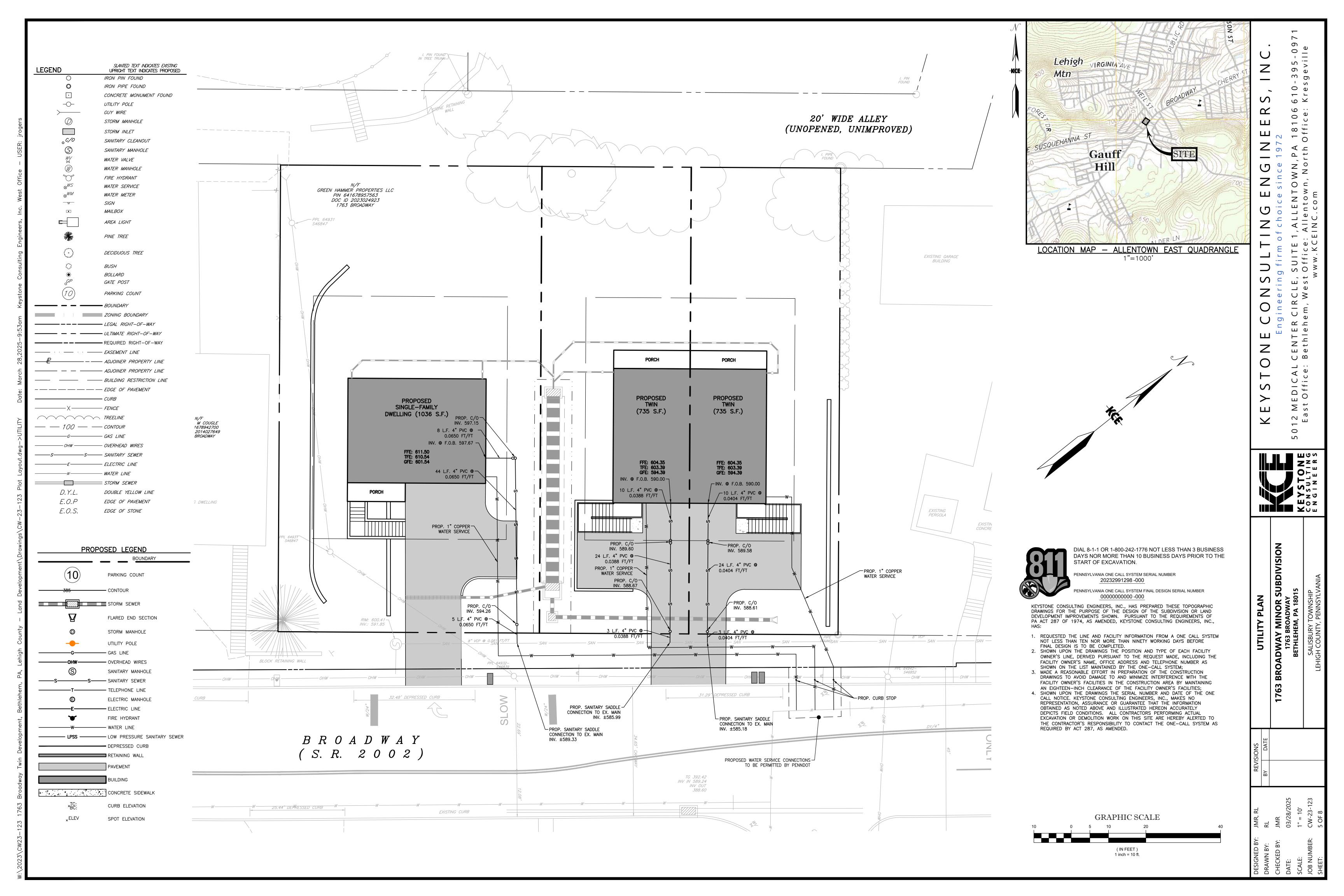
AND

**FEATURES** 

ROADV

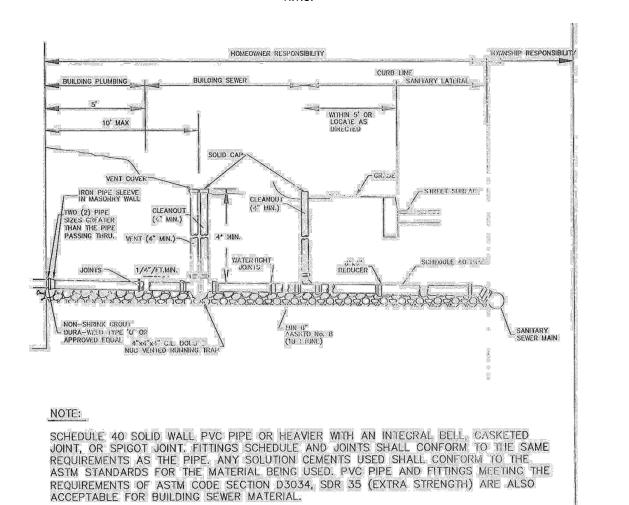
EXICTING		1763 B				
REVISIONS	DATE					
REVI	ВУ					
, RL			8/2025	20'	23-123	C



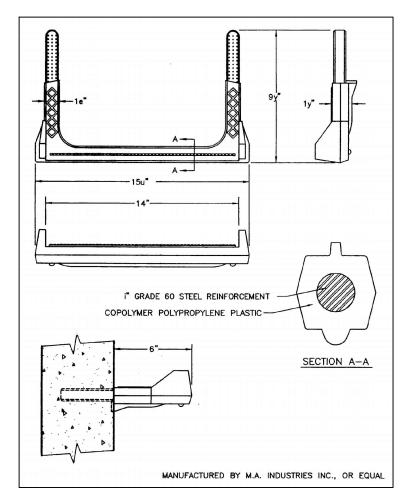


1. SUPERPAVE ASPHALT MIXTURE DESIGN, 9.5mm, PG 64-22, WEARING COURSE, 0 TO 0.3 MILLION ESAL'S, SRL L, 3" DEPTH.

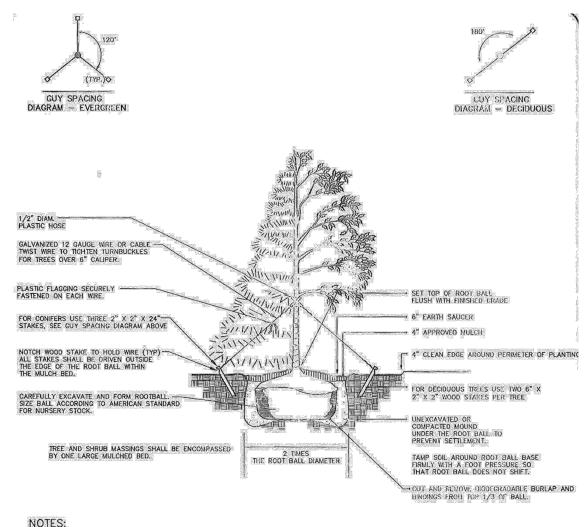
### ONSITE PAVEMENT CROSS—SECTION (OUTSIDE PENNDOT JURISDICTION)



# SANITARY LATERAL CONNECTION DETAIL



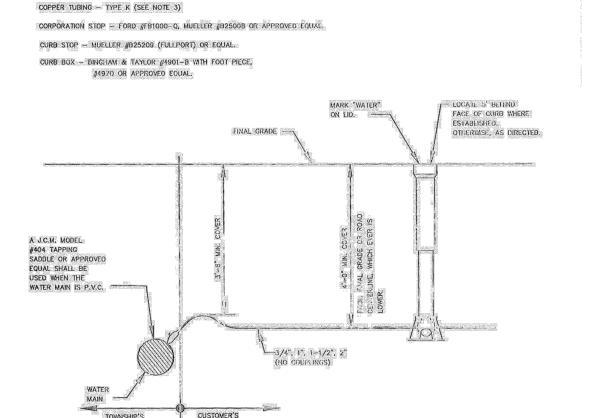
PLASTIC MANHOLE STEP
N.T.S.



NOTES: 1. REMOVE PLASTIC, PAPER, OR FIBER POTS FROM CONTAINERIZED PLANT MATERIAL. PULL ROOTS OUT OF THE ROOT MAT, AND CUT CIRCLING ROOTS WITH A SHARP KNIFE. LOOSEN THE POTTING MEDIUM AND SHAKE AWAY FROM THE ROOT MAT, IMMEDIATELY AFTER REMOVING THE CONTAINER, INSTALL THE PLANT SUCH THAT THE ROOTS DO NOT DRY OUT. PACK PLANTING MIX AROUND THE EXPOSED ROOTS WHILE PLANTING AND WATER THOROUGHLY WHEN 50% OF THE BACKFILL IS PLACED, IF WATER DOES NOT INFILTRATE, CONSULT WITH THE LANDSCAPE ARCHITECT BEFORE PROCEEDING, IF THE WATER INFILTRATES WITHIN 30 MINUTES, COMPLETE THE BACKFILL AND FORM A SAUCER AROUND THE TREE. WATER AGAIN:

2. ALL TREES SHALL BE STAKED PER THE STAKING DETAIL ABOVE. CONTRACTOR SHALL MAINTAIN THE STAKING FOR A PERIOD OF NO LESS THAN 1 YEAR. RE—STAKE AND ADJUST TREES AS NEEDED DURING THIS TIME PERIOD.

### TREE PLANTING



# SMALL SERVICE CONNECTION

HEAVY DUTY GALVANIZED STEEL FRAME

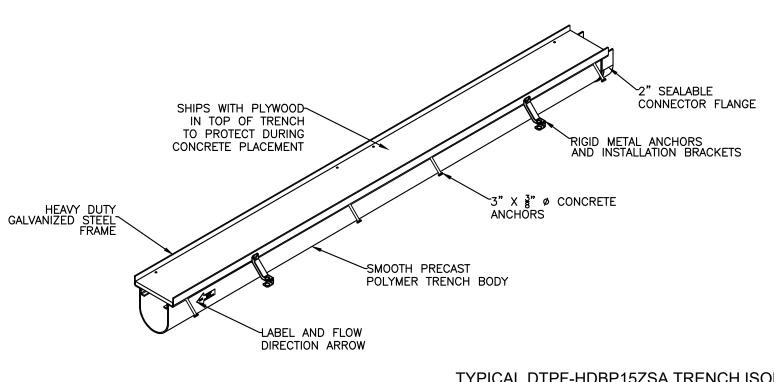
WITH 3"X 3" Ø CONCRETE ANCHORS

ANSTALLATION BRACKETS FOR ALIGNING AND ANCHORING TRENCH

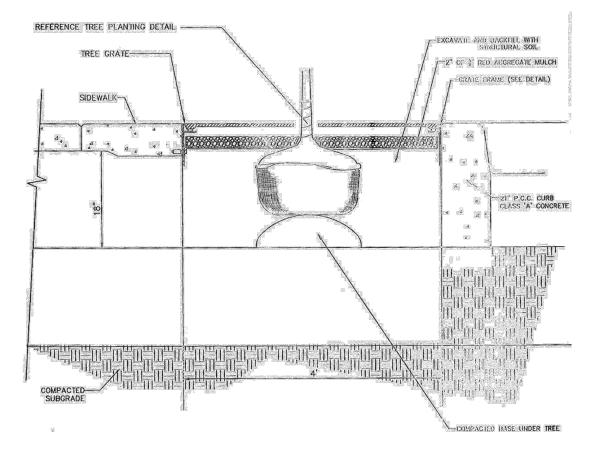
-MONOLITHIC POUR REINFORCE PER

STRUCTURAL REQUIREMENTS

(AS SPECIFIED)



TYPICAL DTPF-HDBP15ZSA TRENCH ISOMETRIC



NOTES:
1. EXTEND STRUCTURAL SOIL 8' BEYOND THE TREE PIT, UNDER THE SURROUNDING SIDEWALK.

# STREET TREE PLANTING

1. VERTICAL PIPE OF CLEAN-OUT SHALL BE PLUGGED WITH APPROVED

2. CLEAN-OUTS ARE REQUIRED EVERY 50 FT. FOR 4" LATERALS, EVERY 100 FT. FOR 6" LATERALS AND AT ALL CHANGES IN DIRECTION.

INLET BOX SCHEMATIC

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

SANITARY SEWER CLEAN-OUT (IN PAVEMENT)

WATERTIGHT PLUG AS DIRECTED BY THE ENGINEER.

1. FOR ADDITIONAL NOTES, SEE SEETS 1-3, OF PENNDOT PUBLICATION RC-46M.

2. FOR PIPE LOCATION AND PIPE OPENING NOTES, SEE SHEET 2, OF PENNOOT PUBLICATION RC-46.M.

-INLET I-1

TG 601.30 INV. IN 593.35

INV. OUT 593.25

INVERT 595.00 -

SECTION VIEW (A-A)

UNDERGROUND DETENTION BASIN DETAIL

CONCRETE OUTLET WALL

SLAB W/OPENING CAST FOR INLET

- CONCRETE OUTLET WALL

CAST IN STRUCTURE

- 24"-WIDE WEIR

~ 36" HDPE (IN)

INVERT 592.25

INVERT: 595.90

CAST IN STRUCTURE

TYPE M FRAME TOP
T/G ELEV. 598.00 CONCRETE CONVERSION
SLAB W/OPENING CAST

-3" ORIFICE INVERT 592.25

AASHTO #57 STONE

- WRAP ALL SIDES OF BASIN WITH 30 MIL

IMPERVIOUS PVC LINER

OCS DETAIL

N.T.S.

└─ 36" PERFORATED HDPE

-12" HDPE (OUT)

INVERT 592.25

INLET BOX

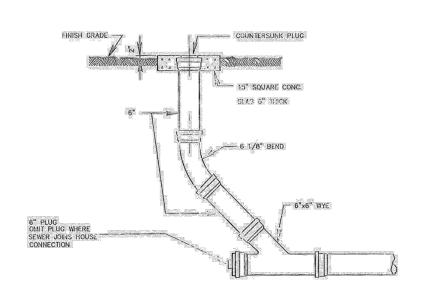
3'-9 1/4"

@1/2" MAX. AT INSIDE FACE

AT OUTSIDE FACE

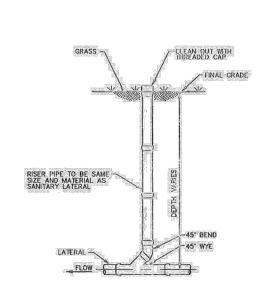
CONTROL STRUCTURE (SEE DETAIL)

PLAN VIEW N.T.S.

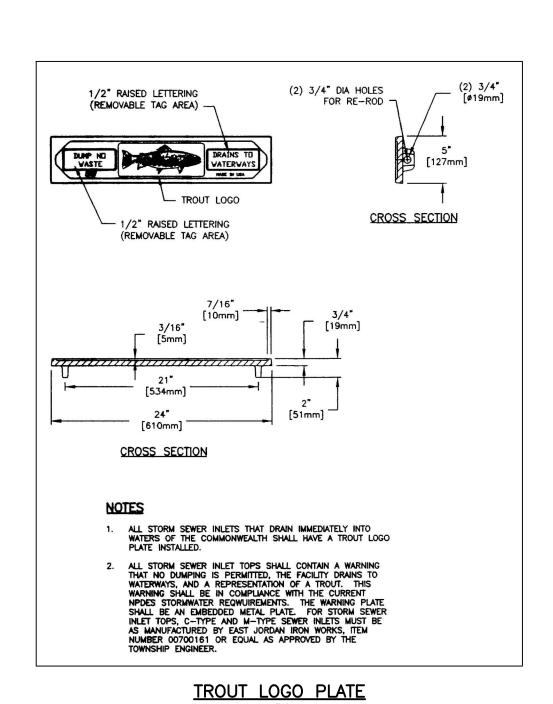


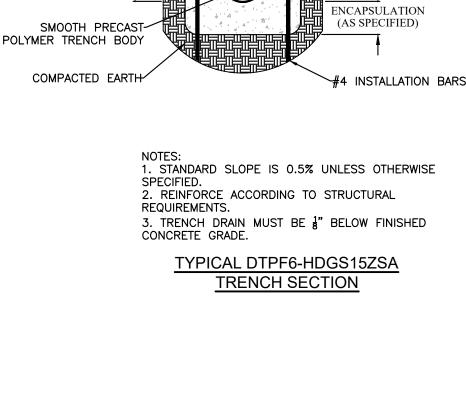
SCHEDULE 40 SOLID WALL PVC PIPE OR HEAVIER WITH AN INTEGRAL BELL, CASKETED JOINT, OR SPIGOT JOINT, FITTINGS SCHEDULE AND JOINTS SHALL CONFORM TO THE SAME REQUIREMENTS AS THE PIPE, ANY SOLUTION CEMENTS USED SHALL CONFORM TO THE ASTM STANDARDS FOR THE MATERIAL BEING USED. PVC PIPE AND FITTINGS MEETING THE REQUIREMENTS OF ASTM CODE SECTION D3034, SDR 35 (EXTRA STRENGTH) ARE ALSO ACCEPTABLE FOR BUILDING SEWER MATERIAL.

### CLEAN-OUT TO GRADE



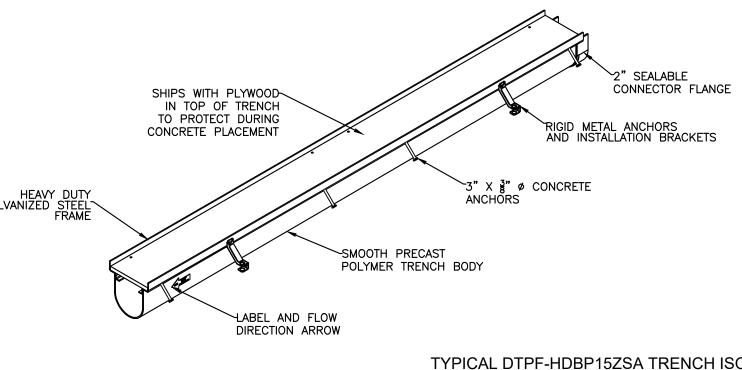
SANITARY SEWER CLEAN-OUT (IN GRASS)





GRATE WITH LOCKING TOGGLE~

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SUBDIVISION BROADWAY 1763 BI BETHLEHI

CONSTRUCTION DETAILS 63

TRENCH DRAIN-DURATRENCH OR SIMILAR N.T.S.

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.

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

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.

AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.

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.

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.

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.

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.

O. 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,

. 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.

. 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. 3. 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. 4. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM LOTS (SPECIFY LOT NUMBERS) ONTO

(SPECIFY ROAD NAMES). VEHICLES AND EQUIPMENT MAY ONLY ENTER AND EXIT THE CONSTRUCTION SITE VIA A STABILIZED ROCK CONSTRUCTION ENTRANCE. . 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 AND ON A WEEKLY BASIS. THE OPERATOR WILL MAINTAIN AND MAKE AVAILABLE TO LEHIGH 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

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

. 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.

3. 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.

9. 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

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.

5. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

6. 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.

7. 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

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.

9. 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.

. 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.

2. 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.

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

34. IN THE EVENT OF SINKHOLE DISCOVERY A PROFESSIONAL GEOLOGIST OR ENGINEER WILL BE CONTACTED CONCERNING MITIGATION. ADDITIONALLY, THE LEHIGH COUNTY CONSERVATION DISTRICT WILL BE MADE AWARE OF THE SINKHOLE

5. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.

6. 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.

38. 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.

37. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN

9. 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 9" LAYERED LIFTS

EXISTING SHOP

PENNDOT LEGAL RIGHT OF WAY

**E&S LEGEND** 

(0.40 ACRES)

RIPRAP APRON

- COMPOST FILTER SOCK

FILTER BAG INLET PROTECTION

CONCRETE WASHOUT FACILITY

ROCK CONSTRUCTION ENTRANCE

NAG S75 MATTING (OR EQUAL)

EXISTING PAVEMENT

SEQUENCE OF CONSTRUCTION:

1. 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.

PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL MARK THE LIMITS OF CONSTRUCTION IN THE FIELD (I.E. FLAGGING, STAKES, ORANGE CONSTRUCTION FENCE, ETC.). THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL SWEEP ANY TRACKED SEDIMENT AND RETURN TO THE SITE AT THE END OF EACH WORKDAY.

3. THE CONTRACTOR SHALL INSTALL THE COMPOST FILTER SOCKS, THE CONCRETE WASHOUT FACILITY, AND THE ROCK CONSTRUCTION ENTRANCES.

4. THE CONTRACTOR SHALL PERFORM CLEARING & GRUBBING WITHIN THE DISTURBED AREA. TOPSOIL SHALL BE STRIPPED AND STOCKPILED IN THE DESIGNATED TOPSOIL STOCKPILE.

5. THE CONTRACTOR SHALL INSTALL THE UNDERGROUND UTILITIES. INSTALL INLET FILTERS IMMEDIATELY FOLLOWING INLET CONSTRUCTION.

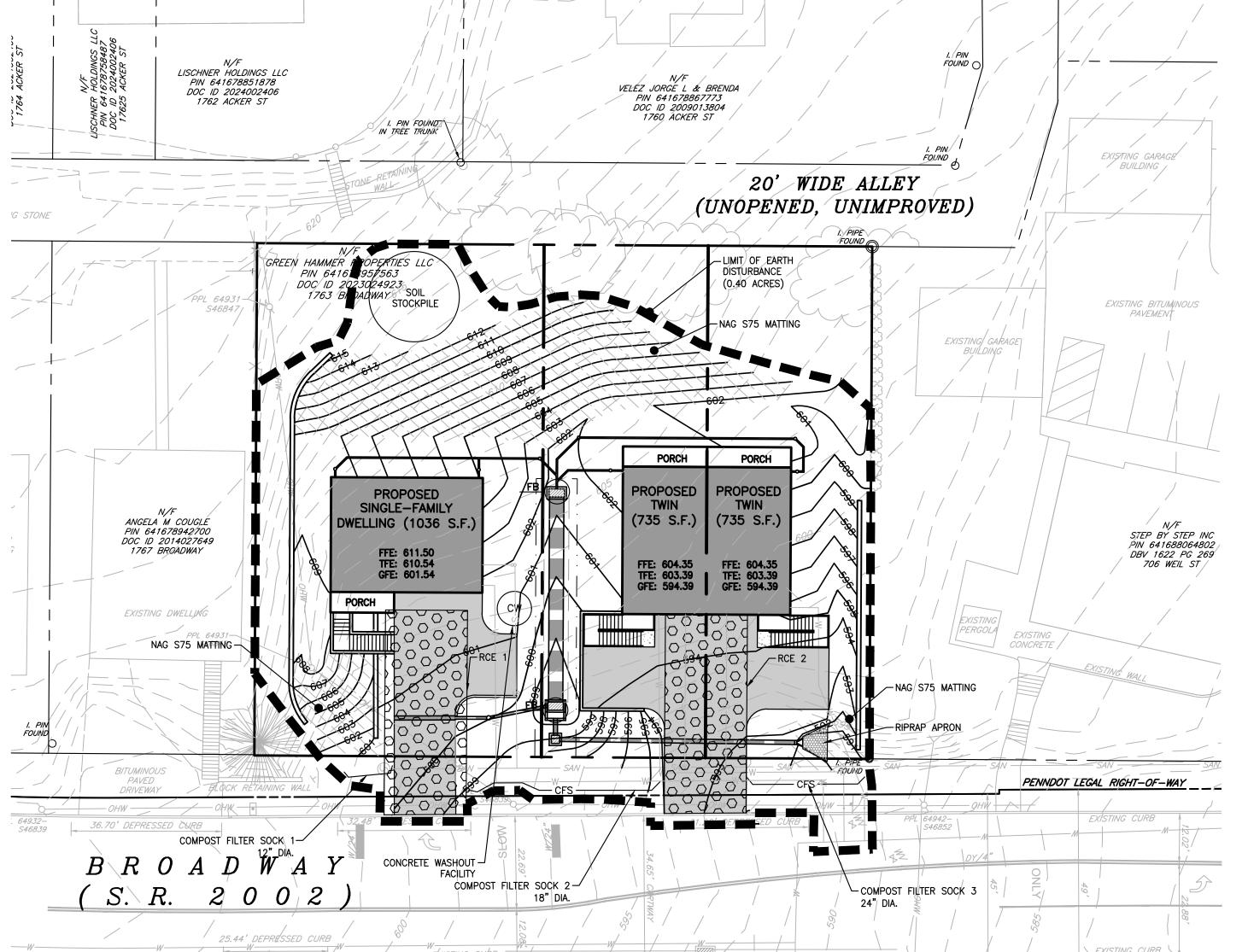
6. INSTALL THE RIPRAP APRON AFTER CONSTRUCTION OF FES-1. THE CONTRACTOR SHALL BRING THE SITE TO ROUGH GRADE.

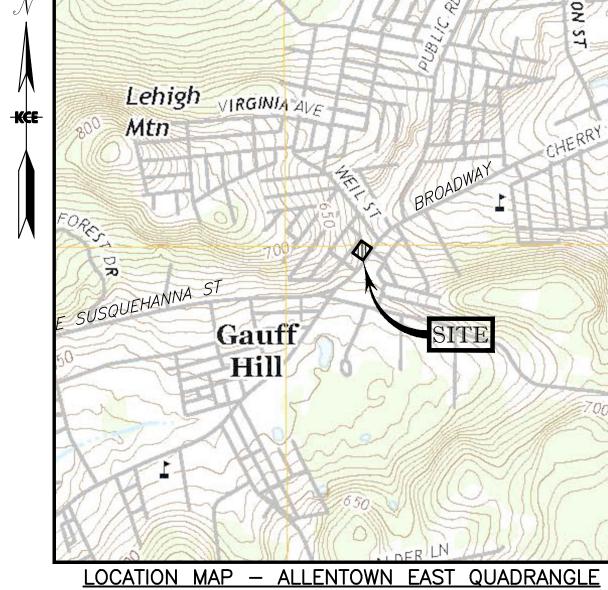
7. THE CONTRACTOR SHALL BEGIN CONSTRUCTION OF THE DWELLINGS.

8. UPON ACHIEVEMENT OF SUBGRADE ELEVATIONS, TOPSOIL SHALL BE SPREAD ON AREAS TO REMAIN VEGETATED. THESE AREAS SHALL IMMEDIATELY RECEIVE PERMANENT SEEDING AND STABILIZATION IN ACCORDANCE WITH THE SEEDING AND SOIL SUPPLEMENTS SCHEDULE.

SHALL IMMEDIATELY RECEIVED PERMANENT STABILIZATION IN ACCORDANCE WITH THE SEEDING AND SOIL SUPPLEMENTS SCHEDULE.

9. UPON PERMANENT STABILIZATION OF THE SITE (MINIMUM 70% UNIFORM PERENNIAL VEGETATIVE COVER), THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPS. ANY ACCUMULATED SEDIMENT SHALL BE DISPOSED OF IN LANDSCAPE AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS, OR DRAINAGE SWALE AND IMMEDIATELY STABILIZED. ANY AREA DISTURBED FROM THE REMOVAL OF THE E&S BMPS



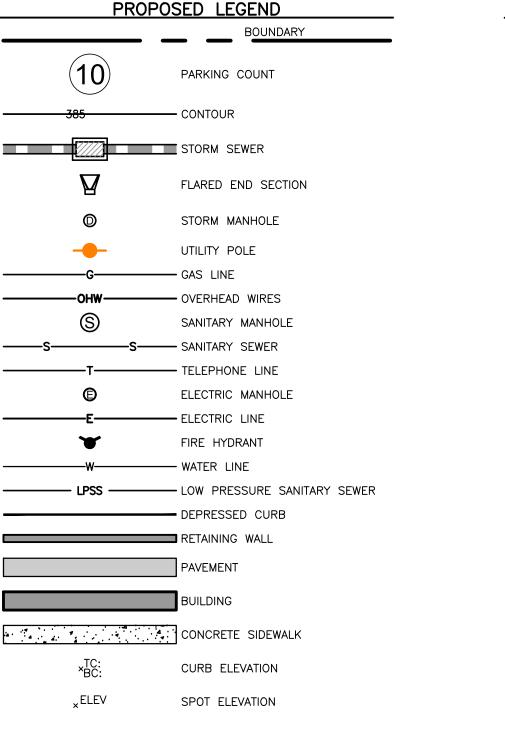


1"=1000'

LEGEND

SLANTED TEXT INDICATES EXISTING

UPRIGHT TEXT INDICATES PROPOSED



0	IRON PIN FOUND
<b>O</b>	IRON PIPE FOUND
•	CONCRETE MONUMENT FOUND
	UTILITY POLE
<b>&gt;</b>	GUY WIRE
	STORM INLET
S	SANITARY MANHOLE
WV ⋈	WATER VALVE
	FIRE HYDRANT
—	SIGN
•	MAILBOX
	PINE TREE
$\odot$	DECIDUOUS TREE
\$	BUSH
	BOLLARD
$_{\circ}^{GP}$	GATE POST
	BOUNDARY
	LEGAL RIGHT-OF-WAY
· · · ·	- EASEMENT LINE
	- ADJOINER PROPERTY LINE
	- BUILDING RESTRICTION LINE
	- EDGE OF PAVEMENT
	= CURB
X	- FENCE
<del></del>	- GUIDERAIL
	TREELINE
— — 100 — —	- CONTOUR
	- GAS LINE
———— ОНW ————	- OVERHEAD WIRES
sss	- SANITARY SEWER
E	- ELECTRIC LINE
W	- WATER LINE
	STORM SEWER
D. Y.L.	DOUBLE YELLOW LINE
S.W.L.	SOLID WHITE LINE
E.O.P	EDGE OF PAVEMENT
C.L.F.	CHAIN LINK FENCE
•	

# **GRAPHIC SCALE** (IN FEET) 1 inch = 20 ft



DIAL 8-1-1 OR 1-800-242-1776 NOT LESS THAN 3 BUSINESS DAYS NOR MORE THAN 10 BUSINESS DAYS PRIOR TO THE START OF EXCAVATION.

PENNSYLVANIA ONE CALL SYSTEM SERIAL NUMBER 20232991298 -000 PENNSYLVANIA ONE CALL SYSTEM FINAL DESIGN SERIAL NUMBER 000-0000000-000

KEYSTONE CONSULTING ENGINEERS, INC., HAS PREPARED THESE TOPOGRAPHIC DRAWINGS FOR THE PURPOSE OF THE DESIGN OF THE SUBDIVISION OR LAND DEVELOPMENT IMPROVEMENTS SHOWN. PURSUANT TO THE REQUIREMENTS OF PA ACT 287 OF 1974, AS AMENDED, KEYSTONE CONSULTING ENGINEERS, INC.,

1. REQUESTED THE LINE AND FACILITY INFORMATION FROM A ONE CALL SYSTEM NOT LESS THAN TEN NOR MORE THAN NINETY WORKING DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED. 2. SHOWN UPON THE DRAWINGS THE POSITION AND TYPE OF EACH FACILITY OWNER'S LINE, DERIVED PURSUANT TO THE REQUEST MADE, INCLUDING THE

FACILITY OWNER'S NAME, OFFICE ADDRESS AND TELEPHONE NUMBER AS SHOWN ON THE LIST MAINTAINED BY THE ONE-CALL SYSTEM; 3. MADE A REASONABLE EFFORT IN PREPARATION OF THE CONSTRUCTION DRAWINGS TO AVOID DAMAGE TO AND MINIMIZE INTERFERENCE WITH THE FACILITY OWNER'S FACILITIES IN THE CONSTRUCTION AREA BY MAINTAINING

AN EIGHTEEN-INCH CLEARANCE OF THE FACILITY OWNER'S FACILITIES; 4. SHOWN UPON THE DRAWINGS THE SERIAL NUMBER AND DATE OF THE ONE CALL NOTICE. KEYSTONE CONSULTING ENGINEERS, INC., MAKES NO REPRESENTATION, ASSURANCE OR GUARANTEE THAT THE INFORMATION OBTAINED AS NOTED ABOVE AND ILLUSTRATED HEREON ACCURATELY DEPICTS FIELD CONDITIONS. ALL CONTRACTORS PERFORMING ACTUAL EXCAVATION OR DEMOLITION WORK ON THIS SITE ARE HEREBY ALERTED TO THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ONE-CALL SYSTEM AS REQUIRED BY ACT 287, AS AMENDED.

### SOILS DATA:

THE FOLLOWING INFORMATION WAS TAKEN FROM THE NRCS WEB SOIL SURVEY ON MARCH 26, 2024.

THE ENTIRE SITE IS COMPRISED OF UnD - URBAN LAND - GLADSTONE COMPLEX, 8 TO 25 PERCENT SLOPES, HSG NOT RATED

SOILS	LIMITATIONS (IF ENCOUNTERED)	RESOLUTION #
	1. CUTBANKS MAY CAVE	1.
	2.	
	3. EASILY ERODIBLE	3.
	4. HYDRIC/HYDRIC INCLUSIONS	4.
	5. SLOW PERCOLATION	5. & 6.
	6. SUBJECT TO FROST ACTION	7.
	7. SUBJECT TO SHRINK-SWELL	7.

### **SOIL RESOLUTIONS:**

1. ALL APPLICABLE OSHA STANDARDS AND REGULATIONS MUST BE IMPLEMENTED AT ALL TIMES. 2. PROPER BEDDING AND BACKFILL SHALL BE PROVIDED FOR UNDERGROUND CONCRETE AND/OR STEEL. MAINTAIN EXISTING VEGETATION WHEREVER POSSIBLE.

AVOID DISTURBANCE TO WETLANDS. 5. DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED EROSION & SEDIMENT CONTROL

6. PROVIDE POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION. 7. SUITABLE STONE BASE SHALL BE PLACED BENEATH IMPERVIOUS SURFACES.

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Ы CONTROL SUBDIVISIO **SEDIMENTATION** 0 4D

AND BRO/ EROSION 63

### SEEDING AND SOIL SUPPLEMENTS

THE FOLLOWING SPECIFICATIONS ARE IN ACCORDANCE WITH PENNDOT PUBLICATION #408, SECTION 804.

### TEMPORARY SEED MIXTURE

SEED TYPE	% BY WEIGHT	MINIMUM PURITY %	MINIMUM GERMINATION %	MAX % WEED SEED	SEEDING RATE LB./1000 SY (LB./ACRE)
(PENNDOT FORMULA T)					
OATS (AVENA SATIVA)	100	97	85	0.1	6 (30)
CEREAL RYE (SECALE CEREALE)	100	97	85	0.1	6 (30)

APPLY STRAW MULCH (SEE MULCH APPLICATION RATES TABLE)

APPLY PULVERIZED AGRICULTURAL LIMESTONE AT A RATE OF 410 LB./1000 SY

APPLY 10-20-20 AT A RATE OF 140 LB./1000 SY

APPLY 38-0-0 UREAFORM FERTILIZER AT A RATE OF 50 LB./1000 SY SEEDING SEASON DATES: MARCH 15 TO OCTOBER 15

## PERMANENT SEED MIXTURE

SEED TYPE	% BY WEIGHT	MINIMUM PURITY %	MINIMUM GERMINATION %	MAX % WEED SEED	SEEDING RATE LB./1000 SY (LB./ACRE)
(PENNDOT FORMULA B RESIDENTIAL MIX)					
PERENNIAL RYEGRASS MIXTURE (LOLIUM PERENNE) A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL RYEGRASS COMPONENT.	20	97	90	0.1	8.5 (42.5)
CREEPING RED FESCUE OR CHEWINGS FESCUE (FESTUCA RUBRA OR SSP COMMUTATE) (IMPROVED AND CERTIFIED)	30	97	85	0.1	12.5 (62.5)
KENTUCKY BLUEGRASS MIXTURE (POA PRATENSIS) A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL BLUEGRASS COMPONENT	50	97	80	0.15	21.0 (105)

REFER TO STANDARD EROSION & SEDIMENT CONTROL PLAN NOTE #19 REGARDING TOPSOIL PLACEMENT (AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES TOPSOIL PRIOR TO SEEDING AND MULCHING.

-EXPANSION RESTRAINT

RUBBER BLOCK

<u>PLAN VIEW</u>

INSTALLATION DETAIL

1/4 IN. NYLON ROPE

2 IN X 2 IN. X 3/4 IN.

APPLY PULVERIZED AGRICULTURAL LIMESTONE AT A RATE OF 2,480 LB./1000 SY

MULCH IN ACCORDANCE WITH THE MULCH APPLICATION RATES TABLE.

APPLY 10-20-20 AT A RATE OF 140 LB./1000 SY

APPLY 38-0-0 UREAFORM FERTILIZER AT A RATE OF 50 LB./1000 SY

-INLET GRATE

ISOMETRIC VIEW

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

EARTHEN BERM TO BE STABILIZED WITH-TEMPORARY OR PERMANENT VEGETATION

REMAIN PERMANENTLY.

NOTES:

IN. REBAR FOR

BAG REMOVAL FROM

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR

ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR

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

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

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 INSPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING

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

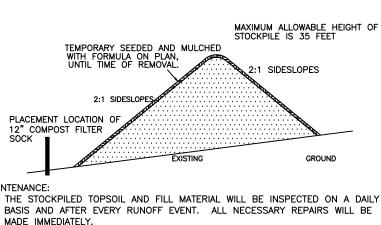
STANDARD CONSTRUCTION DETAIL #4-16

FILTER BAG INLET PROTECTION - TYPE M INLET

NOT TO SCALE

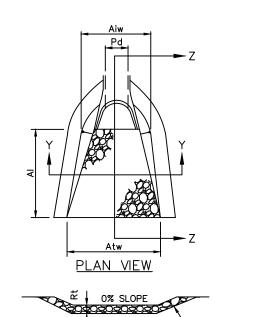
CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET.

SEEDING SEASON DATES: MARCH 15 TO JUNE 1; AUGUST 1 TO OCTOBER 15



1 THE STOCKPILED TOPSOIL AND FILL MATERIAL WILL BE INSPECTED ON A DAILY BASIS AND AFTER EVERY RUNOFF EVENT. ALL NECESSARY REPAIRS WILL BE 2. ALL STOCKPILES WILL BE TEMPORARY SEEDED AND MULCHED AT ALL TIMES.

### TOPSOIL STOCKPILE DETAIL NOT TO SCALE

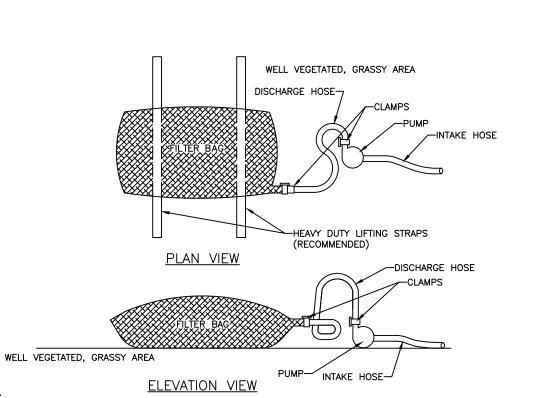


-GEOTEXTILE SECTION Y-Y ∕-0% SLOPE

AI ————————————————————————————————————	
SECTION Z-Z	

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. STANDARD CONSTRUCTION DETAIL #9-1

RIPRAP APRON AT PIPE OUTLET WITH FLARED END SECTION OR ENDWALL NOT TO SCALE



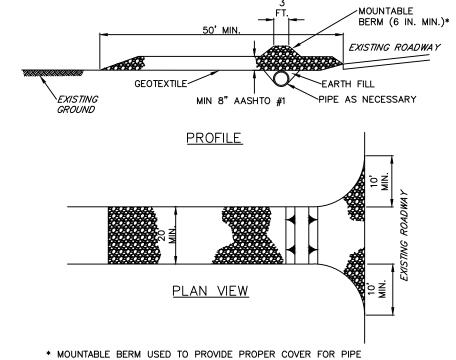
LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER HAN 150 MICRONS, HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

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.

STANDARD CONSTRUCTION DETAIL #3-16 PUMPED WATER FILTER BAG NOT TO SCALE



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 O 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 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 CONSTRUCTION DETAIL #3-1 ROCK CONSTRUCTION ENTRANCE NOT TO SCALE

> > \_\_ 2" X 2" X 36" WOOD STAKES

PLACED 5' O.C.

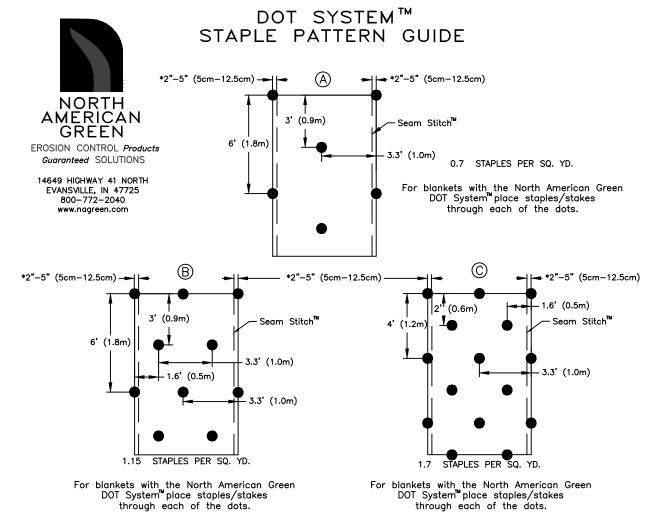
A SUITABLE IMPERVIOUS GEOMEMBRANEE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS, ADAPTED FROM FILTREXX

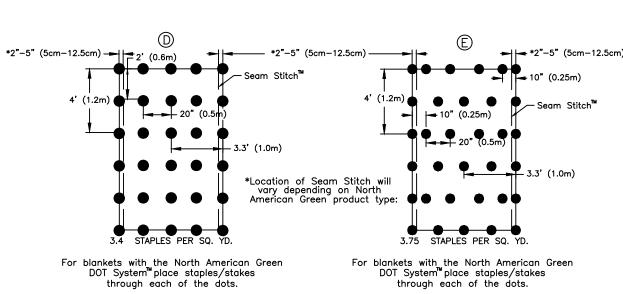
STANDARD CONSTRUCTION DETAIL #3-18

TYPICAL COMPOST SOCK WASHOUT INSTALLATION

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.





STAPLE PATTERN GUIDE NORTH AMERICAN GREEN

### %" %" MESH OPENING TENSILE STRENGTH 202PSI STABILITY % 23% AT 1000 23% AT 1000 100% AT 1000 ORIGINAL 00% AT 1000 H STRENGTH (ASTN G-155) MONTHS 9 MONTHS 6 MONTHS **FUNCTIONAL** LONGEVITY HDPE BIAXIAL NET CONTINUOUSLY WOUND INNER CONTAINMENT NETTING FUSION-WELDED JUNCTURES ¼" x ¾" MAX. APERTURE SIZE COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER AND NON-WOVEN FLEECE OUTER FILTRATION MESH MECHANICALLY FUSED VIA NEEDLE PUNCH) ¾6" MAX. APERTURE SIZE SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS CONTRACTOR SHALL USE MULTI-FILAMENT POLYPROPYLENE (MFPP) PHOTO-DEGRADABLE COMPOST SOCK. SEE PLAN FOR SIZE DIAMETERS AND LOCATIONS. TABLE 4.2 - COMPOST STANDARDS ORGANIC MATTER CONTENT 25%-100% (DRY WEIGHT BASIS) FIBROUS AND ELONGATED 5.5-8.5

TABLE 4.1 - COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

MATERIAL TYPE | 3 MIL HDPE | 5 MIL HDPE | 5 MIL HDPE

CHARACTERISTICS | DEGRADABLE

SOCK DIAMETERS

PHOTO-

DEGRADABLE DEGRADABLE

MULTI-FILAMENT

POLYPROPYLENE

(MFPP)

DEGRADABLE

MULTI-FILAMEN

(HDMFPP)

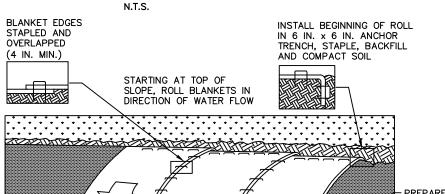
DEGRADABLE

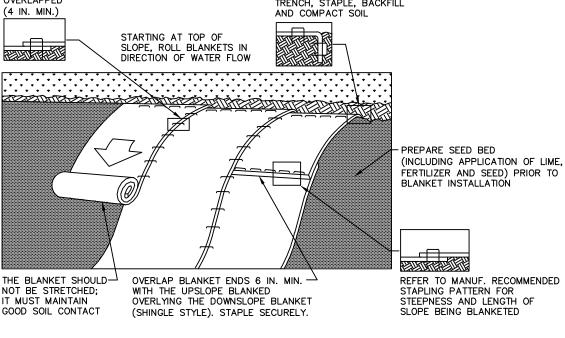
OLYPROPYLENI

COMPOST FILTER SOCK CALCULATIONS				
SOCK NO.	DIA. (IN.)	LOCATION	SLOPE- PERCENT	SLOPE LENGTH ABOVE BARRIER (FT.)
1	12	SOUTHERN CORNER OF SITE	27, 8, 50	28, 26, 6
2	18	IN BETWEEN THE ROCK CONSTRUCTION ENTRANCES	14, 5, 11, 40	28, 54, 59, 15
3	24	EASTERN CORNER OF SITE	11, 3, 28, 13, 40, 5	97, 34, 32, 45, 10, 16

30%-60%

PARTICLE SIZE 30%-50% PASS THROUGH ¾" SIEVE SOLUBLE SALT CONCENTRATION 5.0 dS/m (mmhos/cm) MAXIMUM





NOTES: NOTES:

SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO

INSTALLING THE RIANKET.

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

AND TES:

SOCK FABRIC SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION

CONTROL

AND TES:

SOCK FABRIC SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION

CONTROL

MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION 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 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. STANDARD CONSTRUCTION DETAIL #11-1 EROSION CONTROL BLANKET INSTALLATION

FIGURE 17.3

2', TYP. -

BEDROCK

GEOTEXTILE ENVELOPE (WRAP ALL SIDES, BOTTOM, & TOP)

GEOTEXTILE TO KEEP FINES FROM SETTLING INTO AASHTO #57 STONE

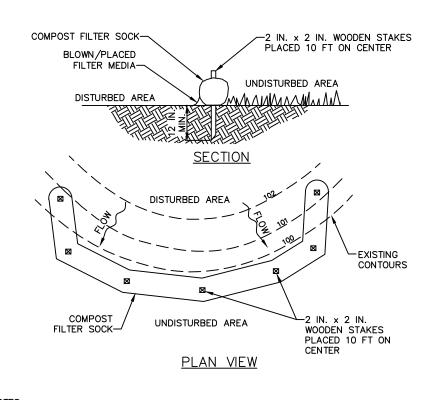
Sinkhole Repair with an Impervious Cover

CONCRETE CAP (OPTIONAL) COMPACTED CLAY

2A MODIFIED STONE

AASHTO #57 STONE

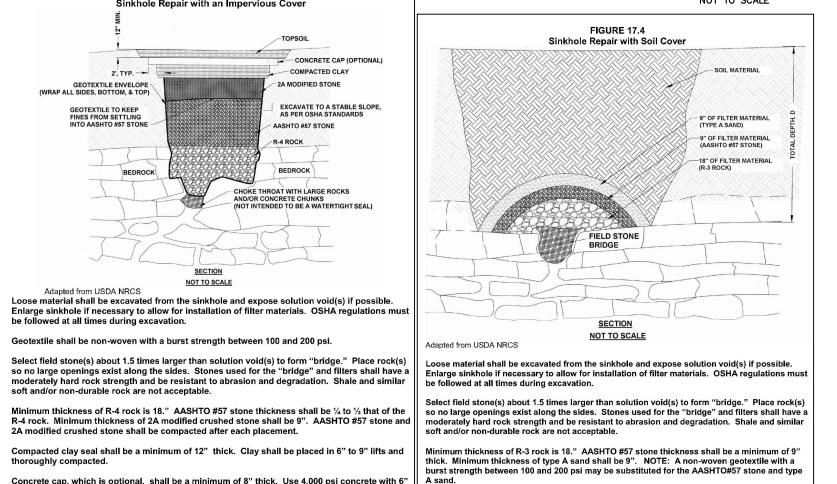
BEDROCK



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.

## STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK



Soil shall be mineral soil with at least 12 % fines and overfilled by 5% to allow for settlement. Suitable soil from the excavation may be used. Any available topsoil shall be placed on top

	FIGURE 17.2 Sinkhole Repair with a Pervious Cover GEOTEXTILE BETWEEN
	R-3 ROCK & AASHTO #57 STONE 6" TO 12" TOPSOIL
FIGURE 17.1	-1' ABOVE COMPETENT ROCK TO FINE-GRAINED MATERIAL  3/4 D FILTER MATERIAL (AASHTO#57 STONE)  GEOTEXTILE BLANKET IN AREAS ADJACENT TO FINE-GRAINED MATERIAL
Sinkhole Repair with a Bentonite Cap	(R-3 ROCK)
Existing Grade 4"Min. Topsoil (mounded) Seed and Mulch	
Excavate Sides Bentonite Cap and Throat to Clay Backfill Stable Ground Compacted in 8" Lifts	
Optional 12" to 18" Thick No. 6 Rebars @ 12" 0.C. Both Ways Class A Concrete	STONES 1/4 TO 1/2 VOID DIA.
AASHTO No. 1 Aggregate with	SECTION
Class C Concrete	NOT TO SCALE
. (May use larger stone to clog NTS throat)	Adapted from USDA NRCS  Loose material shall be excavated from the sinkhole and expose solution void(s) if possible.
A DEP oose material shall be excavated from the sinkhole and expose solution void(s) if possible. nlarge sinkhole if necessary to allow for installation of filter materials. Occupational Safety nd Health Administration (OSHA) regulations must be followed at all times during excavation.	Enlarge sinkhole if necessary to allow for installation of filter materials. OSHA regulations must be followed at all times during excavation.
tones used for the "bridge" and filters shall have a moderately hard rock strength and be ssistant to abrasion and degradation. Shale and similar soft and/or non-durable rock are not cceptable.	Stones used for the "bridge" and filters shall have a moderately hard rock strength and be resistant to abrasion and degradation. Shale and similar soft and/or non-durable rock are not acceptable.

- MAXIMUM DEPTH OF CONCRETE

-2" X 2" X 36" WOOD STAKES

WATER INTO FILTER RING

4" DIAMETER COMPOST FILTER SOCK. 4' MIN. OVERLAP ON UPSLOPE

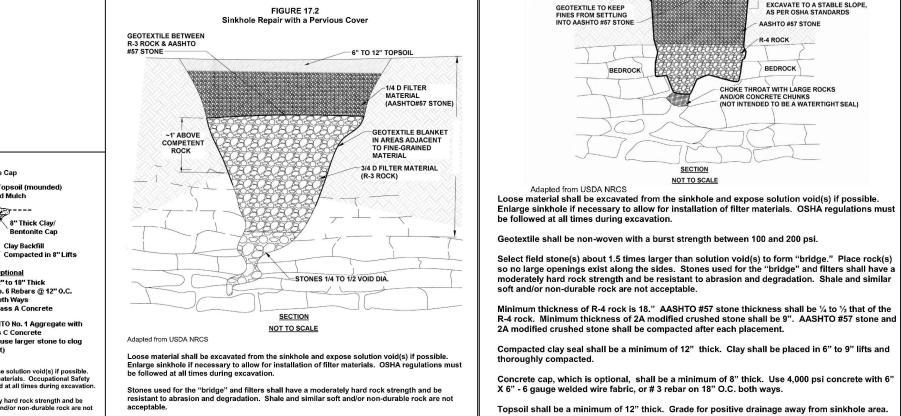
SIDE OF FILTER RING

☐ GEOMEMBRANE

PLACED 5' O.C.

WASHOUT WATER IS 50% OF FILTER

- 24" DIAMETER COMPOST



# SINKHOLE REMEDIATION DETAILS

# DET CONTROL SUBDIVISIO **SEDIMENTATION** Y MINOF BROADW/ HEM, PA 18 OAD AND BR

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