

## ADJOINING PROPERTIES (LANDS N/F)

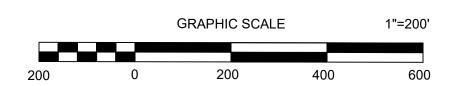
- 1. VILLAGE ASSOCIATES, 503 W LANCASTER AVE, 36-11-316
- 2. HAMILTON S MATTHEWS V JR & MIRABELLO FRACIS J & ETAL, 22 FORREST LANE, 36-11-339
- 3. HAMILTON S MATTHEWS V JR & MIRABELLO FRACIS J & ETAL,
  142 FAIRFIELD LANE, 36-11-338
- 4. OCONNOR CONSTANCE M & IZZO PETER J, 11 FAIRFIELD LANE, 36-11-337
- 5. SCHUDA JOSEPH M & FRANCES E, 14 FORREST LANE, 36-11-341
- 6. CHAWLA GAGAN & CHAWLA SANNU, 21 GRANT LANE, 36-11-342
- 7. JOHNSTON ALFRED J III & JOHNSTON GLORIA ROMEIKA, 17 GRANT LANE, 36-11-343
- 8. MORRISSEY CAREN E, MORRISSEY WILLIAM L JR, 13 GRANT LANE, 36-11-344
- 9. SCHERI STEVEN W & MEGAN G, 9 GRANT LANE, 36-11-345
- 10. MAHONEY JOHN J III & MARY ANN, 5 GRANT LANE, 36-11-346
- 11. THE TRUSTEES REVOCABLE TRUST C/O
  HAMILTON REVOCABLE TRUST,
  235 STRAFFORD AVE, 36-11-353
- 12. GRAY JEREMY P & CONTRERAS TERESA PAOLA ZARATE,
  231 STRAFFORD AVE, 36-11-352
- 13. BROOKS JOHN W & KATHRYN R, 227 STRAFFORD AVENUE, 36-11-351
- 14. THOMASON ROBERT I & THOMASON TRAUDI, 211 STRAFFORD AVENUE, 36-11-350
- 15. HAMILTON DORRANCE H ETAL TRSTEES REVOCABLE TRUST, 205 STRAFFORD AVE, 36-11-349:001
- 16. SATTERFIELD DAVID & MORRISSEY MARY ANNE, 207 STRAFFORD AVE, 36-11-349:002
- 17. ANUJEET & TARA SAREEN, 205 STRAFFORD AVE, 36-11-349
- 18. ALAN J SILVER, 201 STRAFFORD AVE, 36-11-349:003
- 19. FUCHS JR JOHN O C/O THE STRAFFORD OFFICE BLDG,
  125 0175 STRAFFORD AVE, 36-12-263
- 20. FUCHS O JOHN, 200 EAGLE RD, 36-11-314

# 204 & 228 STRAFFORD AVENUE

## CONDITIONAL USE PLAN SET



MAP SHOWING FEATURES WITHIN 300' OF PROPERTY LINE



## CIVIL ENGINEER: SITE ENGINEERING CONCEPTS, LLC

ATTN: ROBERT M. LAMBERT, P.E. P.O. BOX 1992 SOUTHEASTERN, PA 19399 P: (610) 240-0450 E: RLAMBERT@SITE-ENGINEERS.COM

## LANDSCAPE ARCHITECT: GLACKIN THOMAS PANZAK, INC.

ATTN: BERNARD S. PANZAK, RLA
PAOLI EXECUTIVE GREEN 1, SUITE 300
PAOLI, PA 19301
P: (610) 408-9011
E: BPANZAK@GLACKINPLAN.COM

APPLICANT/OWNER:
THE TRUSTEES OF THE DORRANCE HAMILTON
3/15/1996 REVOCABLE AGREEMENT OF TRUST

ATTN: CHARLES HOUDER
551 W LANCASTER AVE, SUITE 307
HAVERFORD, PA 19041
P: (610) 389-0305
E: DCH@HAVERFORDPROPERTIES.COM

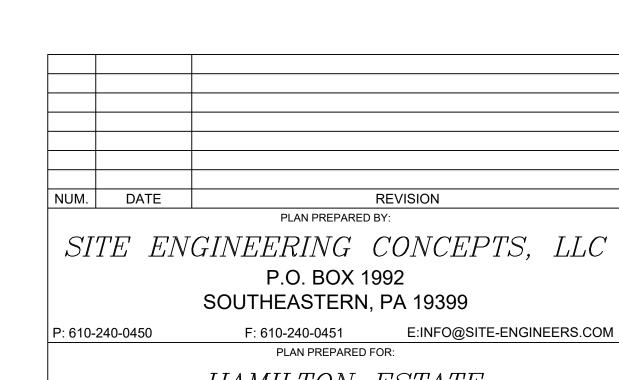
## DRAWING SCHEDULE

- 1. COVER SHEET
- 2. EXISTING CONDITIONS PLAN
- 3. DEMOLITION PLAN
- 4. RECORD PLAN
- 5. POST CONSTRUCTION STORMWATER PLAN
- 6. DURING CONSTRUCTION E&S
- 7. PCSM DETAILS
- 8. CONSTRUCTION DETAILS
- 9. E&S DETAILS

DAVID J. SANDERS

DAVID J. SANDERS, P.E. PE057436

- 10. EX-1 TREE REMOVAL INVENTORY
- 11. LP-1 LANDSCAPE PLAN
- 12. LP-2 LANDSCAPE DETAILS
- 13. LI-1 LIGHTING PLANS
- 14. LI-2 LIGHTING DETAILS



HAMILTON ESTATE

204 & 228 STRAFFORD AVE
WAYNE PA 19087

WAYNE, PA 19087

RADNOR TOWNSHIP DELAWARE COUNTY

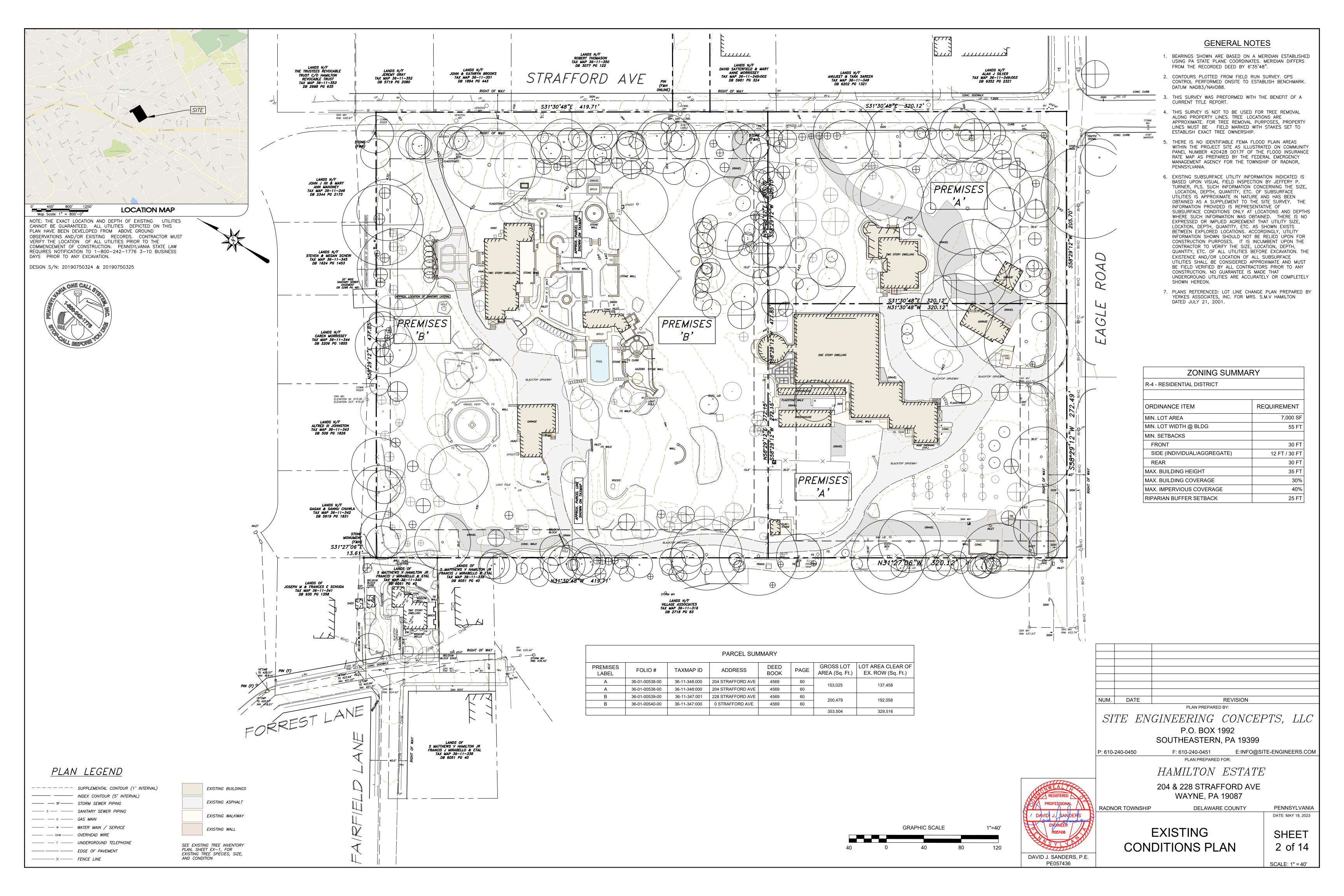
**COVER SHEET** 

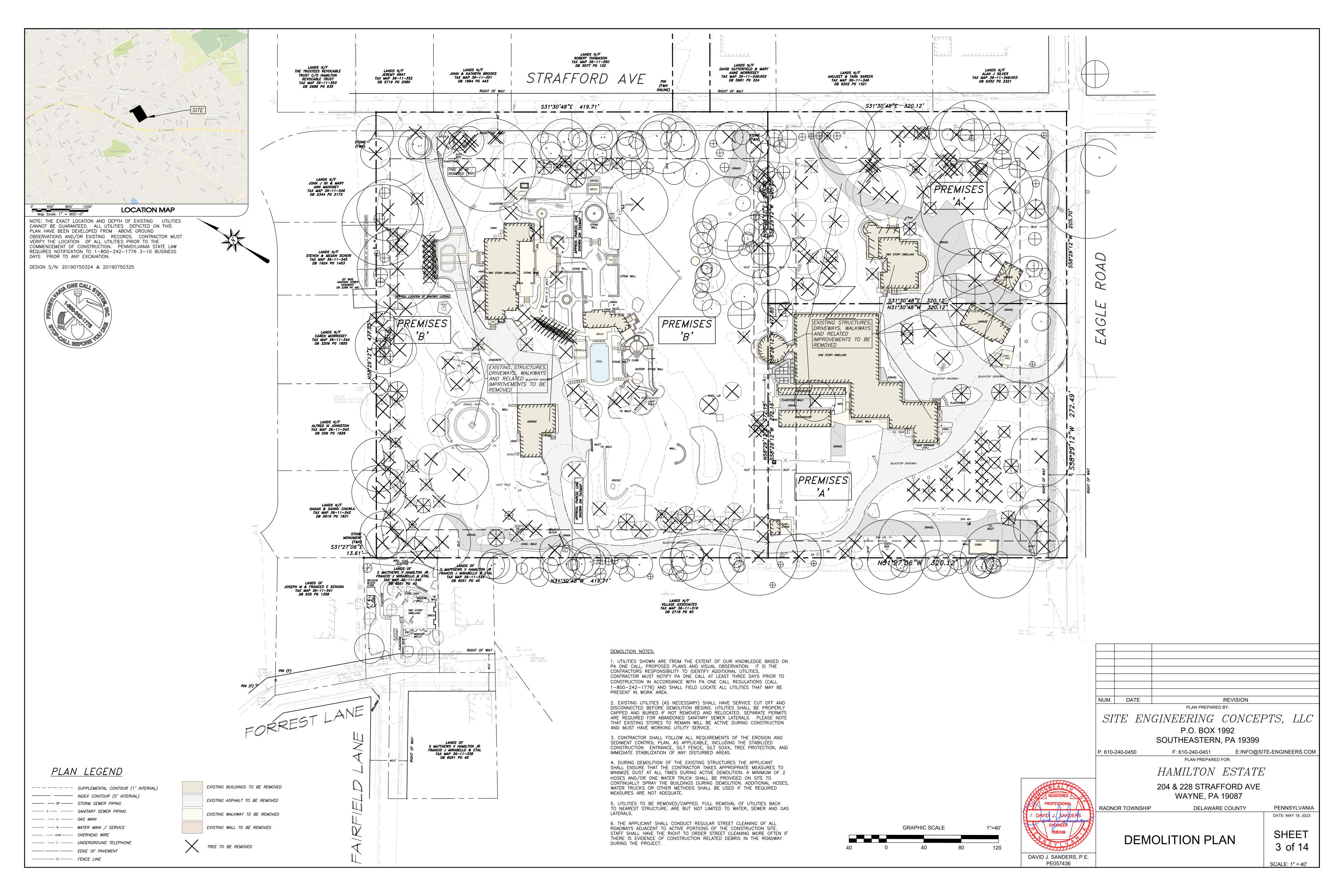
SHEET 1 of 14

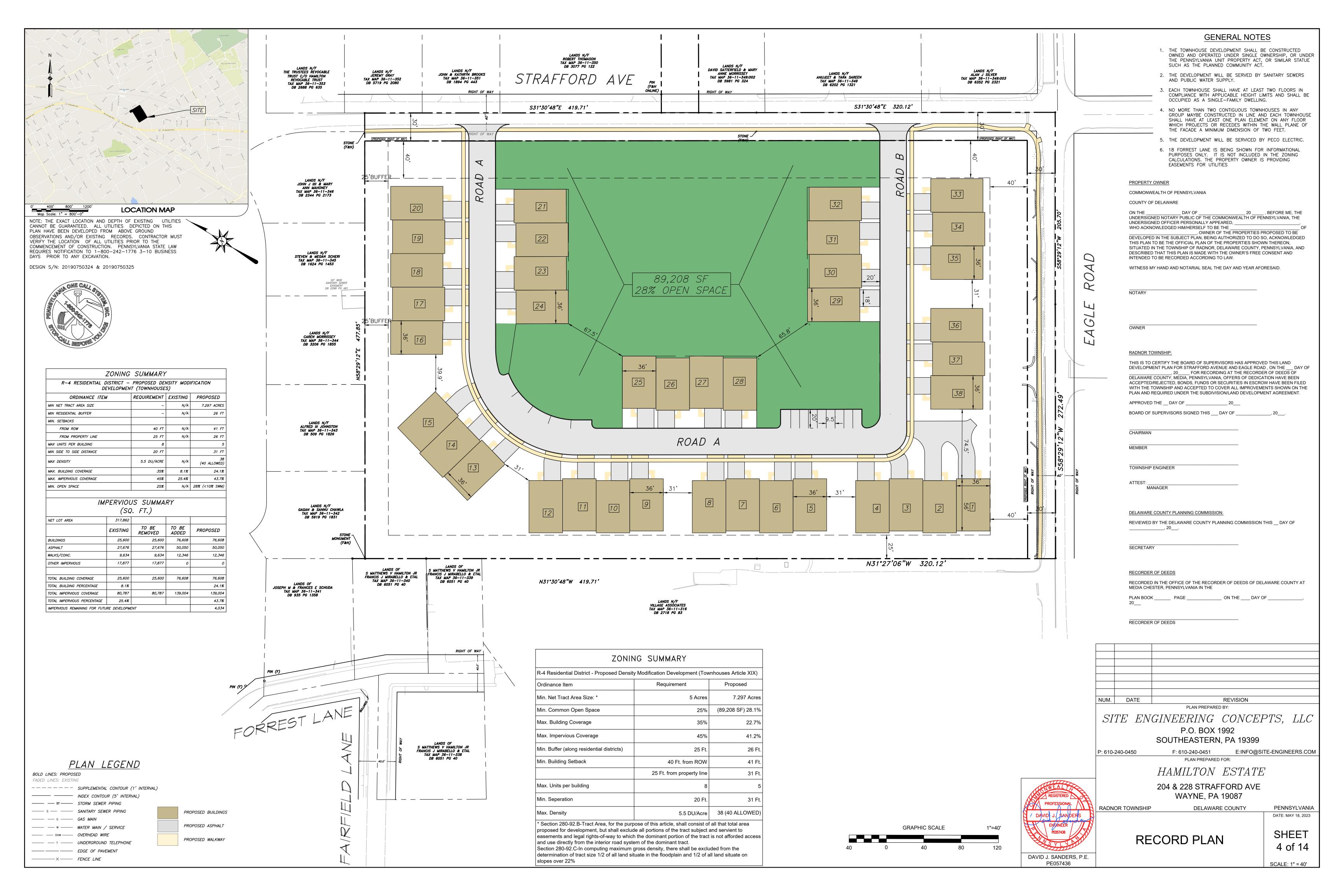
SCALE: 1" = 200'

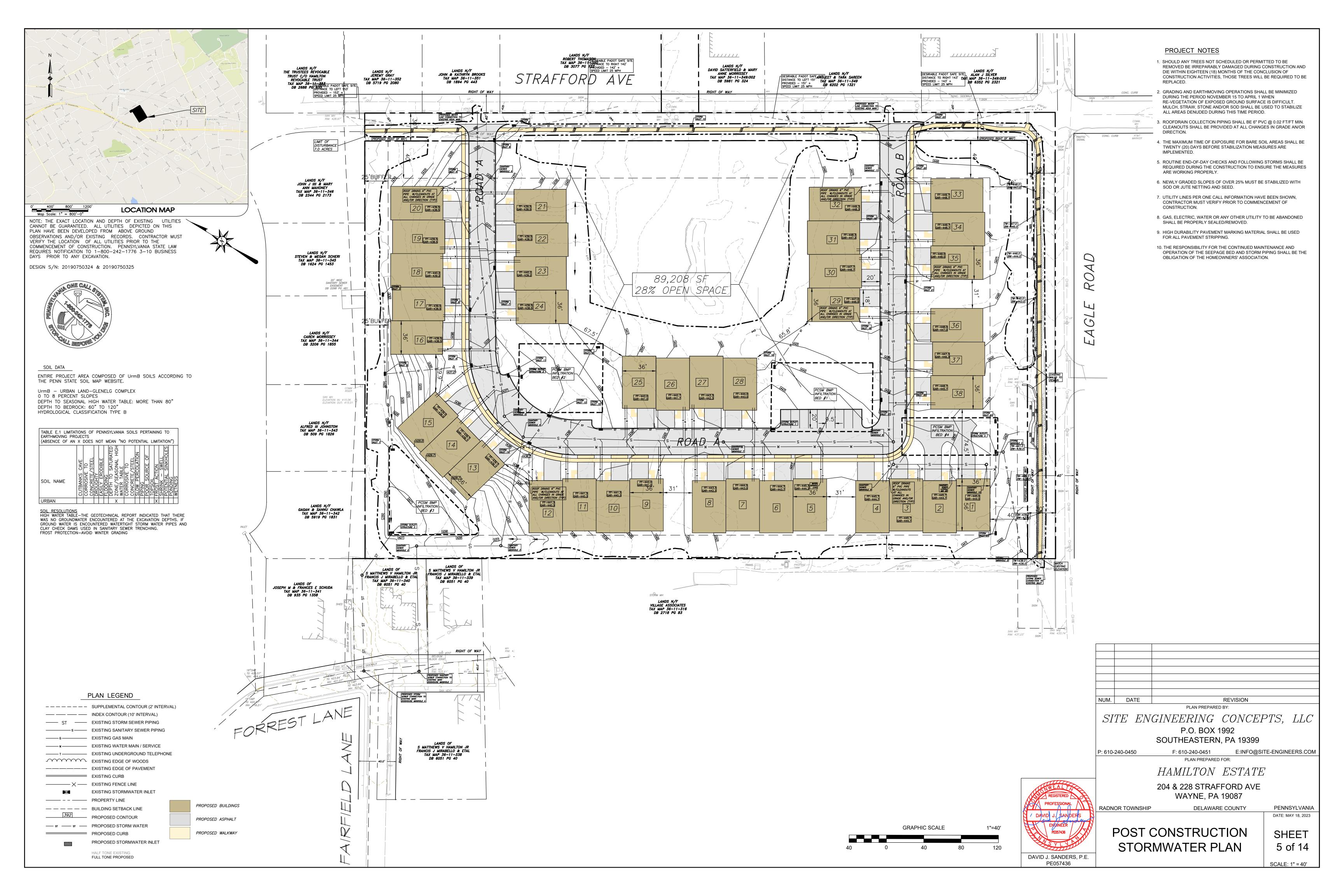
PENNSYLVANIA

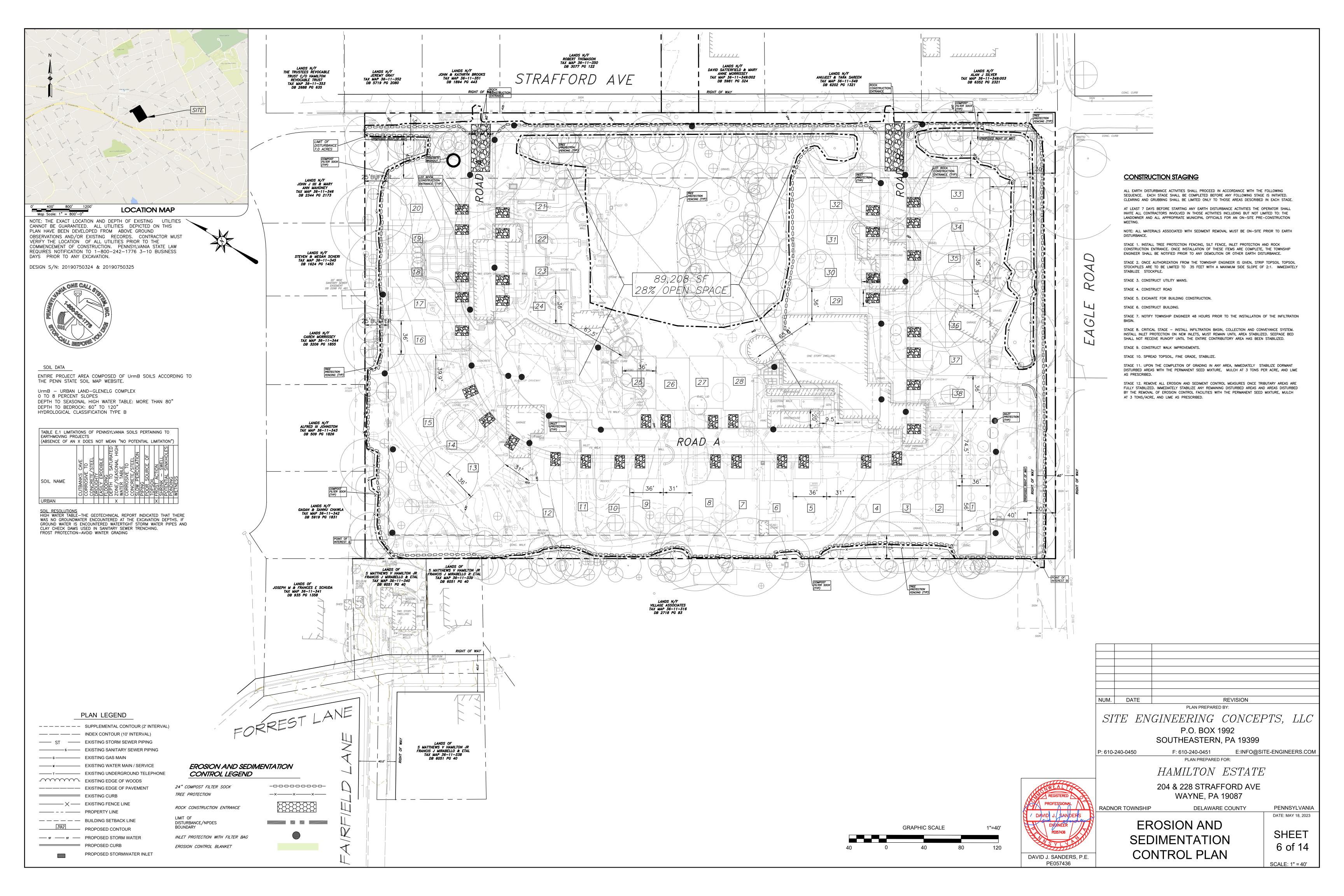
DATE: MAY 18, 2023

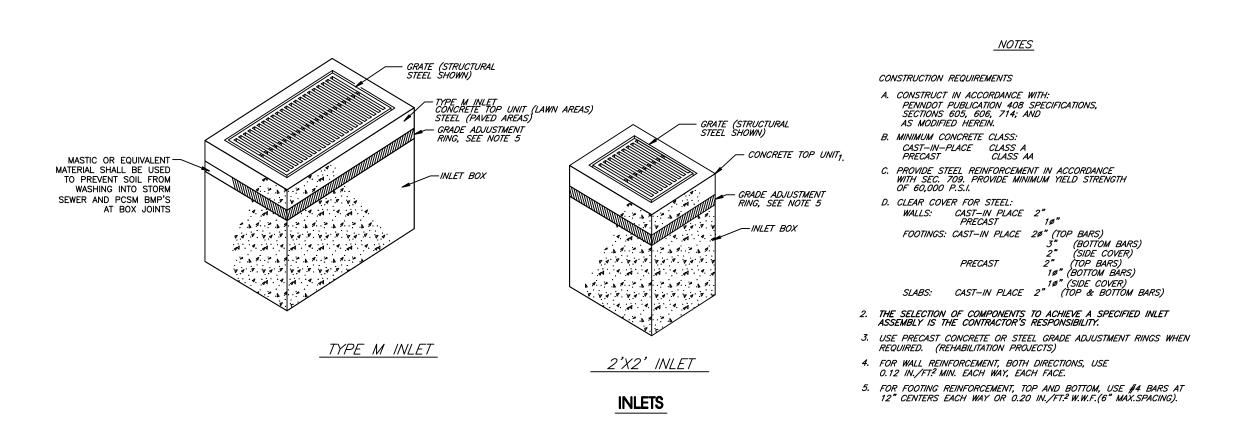


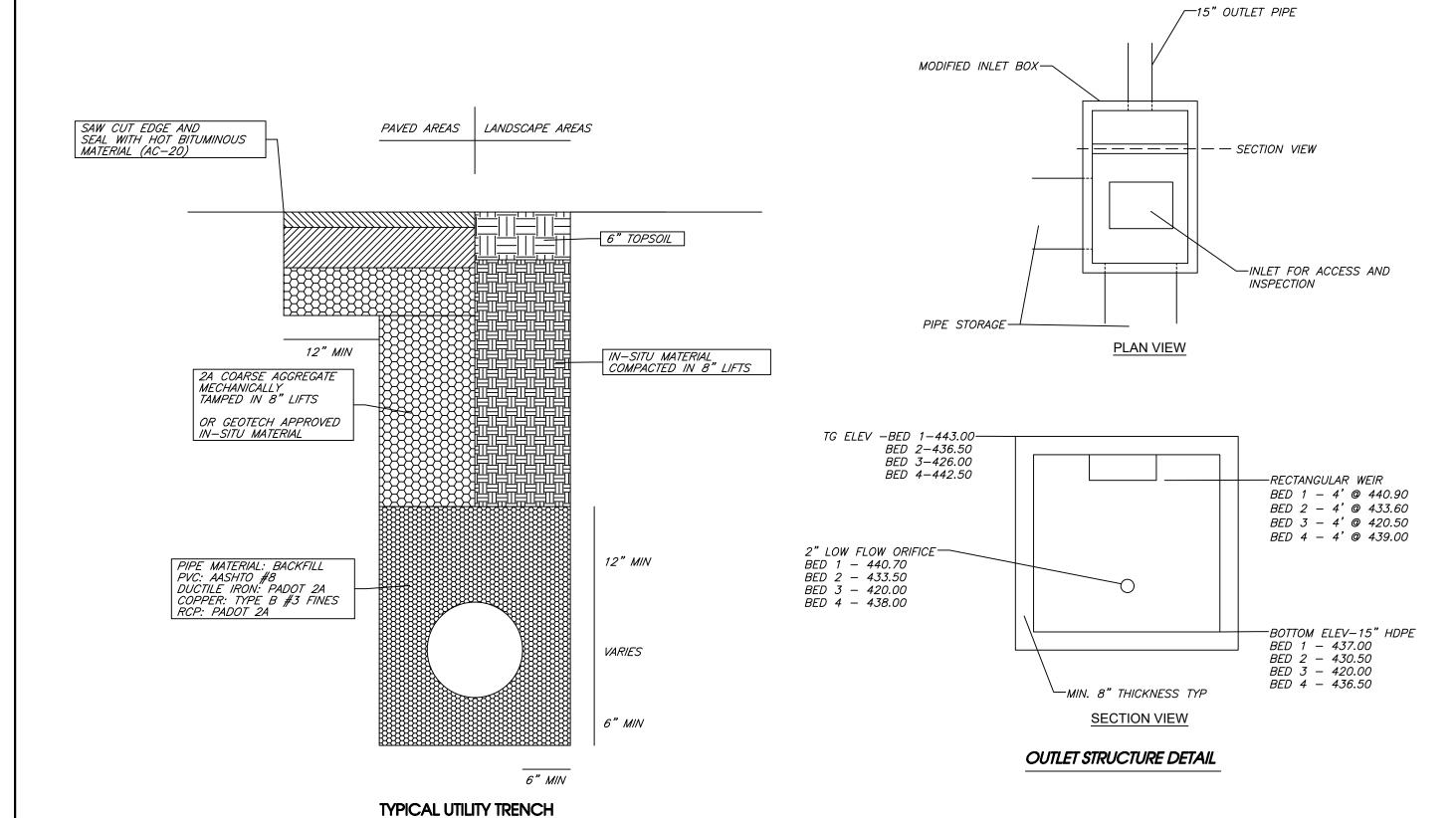


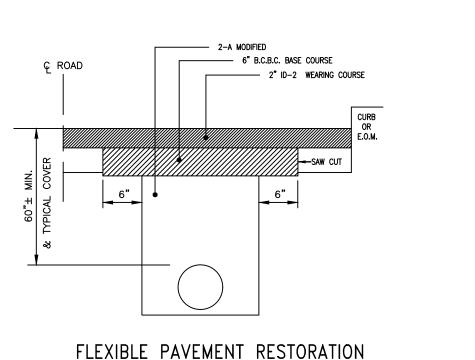


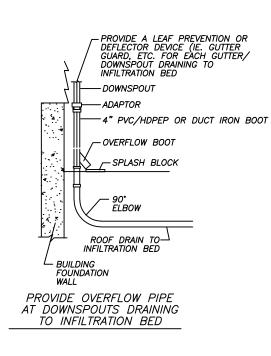


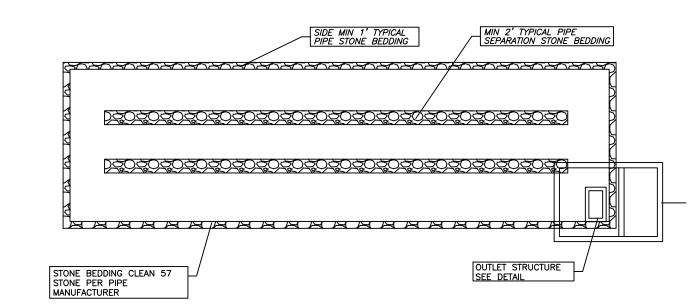








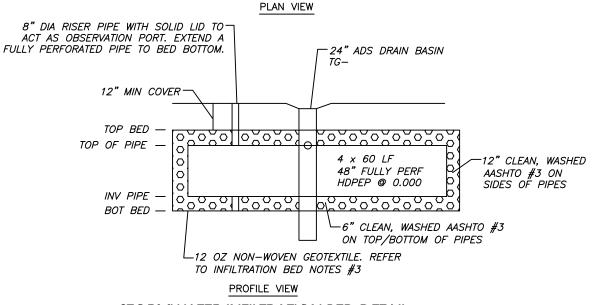




### STORMWATER PIPE STORAGE NOTES

- BEDS 1-6 48" PIPE STORAGES SHALL BE FULLY PERFORATED HDPE.
   ALL CONVEYANCE PIPING SHALL BE SOLID HDPE WITH WATERTIGHT JOINTS.
- 2. ALL CONVEYANCE PIPING SHALL BE3. 6" STONE BEDDING BELOW PIPE
- 4. 6" STONE COVERAGE ABOVE PIPE.

### PIPE STORAGE DETAIL



### STORMWATER INFILTRATION BED DETAIL

PIPE STORAGE CONSTRUCTION SEQUENCE

1. EXCAVATE AREA TO PROPOSED UNCOMPACTED SUBGRADE.

2. PLACE LINER PER MANUFACTURER SPECIFICATIONS ON ALL SIDES OF BED.

3. CAREFULLY PLACE STONE BEDDING TO NOT DAMAGE LINER.

4. CONSTRUCT PIPE SYSTEM AND OUTLET STRUCTURES.

5. PLACE REMAINING STONE AROUND PIPES.

6. PLACE TOP PORTION OF LINER.

SHORT TERM/ROUTINE MAINTENANCE OF PIPE STORAGE:

1. MAINTENANCE ACTIVITIES TO BE DONE ANNUALLY AND WITHIN 48 HRS AFTER EVERY MAJOR STORM EVENT (>1 INCH RAINFALL DEPTH).

2. KEEPING ALL DEBRIS, INCLUDING GRASS CLIPPINGS, LEAVES, AND MOTOR OIL CLEAR OF INLET AND OUTLET STRUCTURES.

3. REMOVING ANY ACCUMULATED DEBRIS.

4. IF STORM WATER FACILITIES DO NOT DRAIN WITHIN 48 HOURS AFTER THE LAST STORM EVENT, THEY SHALL BE INSPECTED AND THEN FIXED OR REPLACED AS DETERMINED

LONGTERM/NON-ROUTINE MAINTENANCE OF PIPE STORAGE:

INSECTS AND/OR ODOR BECOME PROBLEMS
 STANDING WATER LASTING LONGER THAN 72 HRS
 VISIBLE SIGNS OF SEDIMENT ACCUMULATION

REMOVED AND REPLACED.

1. CLEAR INLETS/PIPES/STONE/PAVING OF DEBRIS, VACUUM, RECONSTRUCT AS

2. REMOVE ACCUMULATED SEDIMENT/POLLUTANTS.
4. RECONSTRUCT.

MUST BE AT LEAST 90 HOLES / LINEAR FOOT

5. PROVIDE FOR COMPLETION OF A WRITTEN REPORT DOCUMENTATION EACH INSPECTION AND ALL BMP REPAIR AND MAINTENANCE ACTIVITY.
6. CATCH BASINS AND INLETS SHOULD BE INSPECTED AND CLEANED AT LEAST TWO TIMES PER YEAR AND AFTER SIGNIFICANT STORM EVENTS.
7. IF STORM WATER FACILITIES DO NOT DRAIN AFTER STORM EVENTS, THEY SHALL BE INSPECTED AND THEN FIXED OR REPLACED AS DETERMINED NECESSARY. IN THE

EVENT THE PIPE STORAGE FAILS THE SYSTEM WILL NEED TO BE COMPLETELY

SCARIFY BOTTOM AND SIDES OF BASIN, TAKING CARE NOT TO COMPACT SOIL.
 PIPE MUST HAVE PERFORATIONS NO LESS THAN 5/16" DIAMETER AND PROVIDE AN OPEN AREA OF NOT LESS THAN 3.31 SQUARE INCHES PER SQUARE FOOT OF PIPE SURFACE.
 THE FOLLOWING FORMULA DETERMINES THE # OF HOLES/LINEAR FOOT OF PIPE: [13.24 \* (DIA OF PIPE IN FEET)] / [HOLE SIZE IN INCHES] ^2, SO FOR A 8" DIA PIPE THERE

3. ENTIRE BED, SIDES TOP AND BOTTOM, SHALL BE WRAPPED IN SYNTHETIC INDUSTRIES NON-WOVEN #1201 OR ENGINEER APPROVED EQUAL. PROVIDE A MINIMUM 1' OVERLAP AT ALL SEAMS AND JOINTS. WHERE PROTRUSIONS OR PENETRATIONS OCCUR, GEOTEXTILE SHALL BE PERMANENTLY AFFIXED TO OBJECT.

4. CARE SHOULD BE TAKEN IN THE PLACING OF STONE ATOP THE GEOTEXTILE SO AS TO AVOID TEARING OR RIPPING OF THE FABRIC. STONE SHOULD NOT BE DUMPED UNTIL A 6" LAYER OF STONE IS IN PLACE.

5. PIPES CONNECTING INTO BEDS AT POINTS OTHER THAN DRAIN BASINS SHALL HAVE A STUB CONNECTION.

## **INFILTRATION BED NOTES**

1. SCARIFY BOTTOM AND SIDES OF BASIN, TAKING CARE NOT TO COMPACT SOIL.

2. PIPE MUST HAVE PERFORATIONS NO LESS THAN 5/16" DIAMETER AND PROVIDE AN OPEN AREA OF NOT LESS THAN 3.31 SQUARE INCHES PER SQUARE FOOT OF PIPE SURFACE.

THE FOLLOWING FORMULA DETERMINES THE # OF HOLES/LINEAR FOOT OF PIPE: [13.24 \* (DIA OF PIPE IN FEET)] / [HOLE SIZE IN INCHES] ^2 , SO FOR A 72" DIA PIPE THERE MUST BE AT LEAST 814 HOLES / LINEAR FOOT

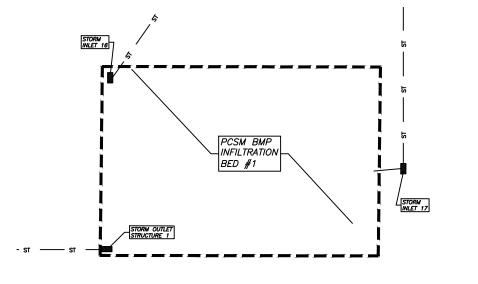
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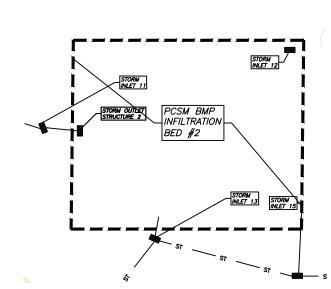
4. CARE SHOULD BE TAKEN IN THE PLACING OF STONE ATOP THE GEOTEXTILE SO AS TO AVOID TEARING OR RIPPING OF THE FABRIC. STONE SHOULD NOT BE DUMPED UNTIL A 6" LAYER OF STONE IS IN PLACE.

5. PIPES CONNECTING INTO BEDS AT POINTS OTHER THAN DRAIN BASINS SHALL HAVE

6. ALL CMP SHALL BE ALUMINIZED STEEL.

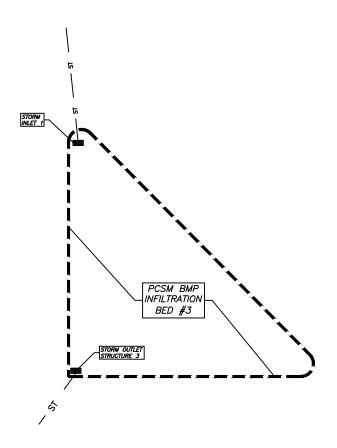
A STUB CONNECTION.

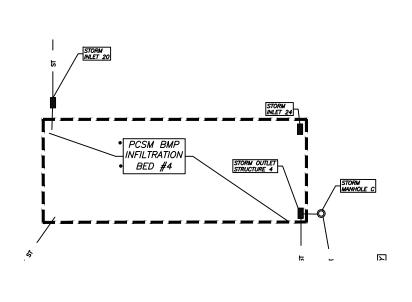




**INFILTRATION BED #1 DETAIL** 

**INFILTRATION BED #2 DETAIL** 





INFILTRATION BED #3 DETAIL

INFILTRATION BED #4 DETAIL



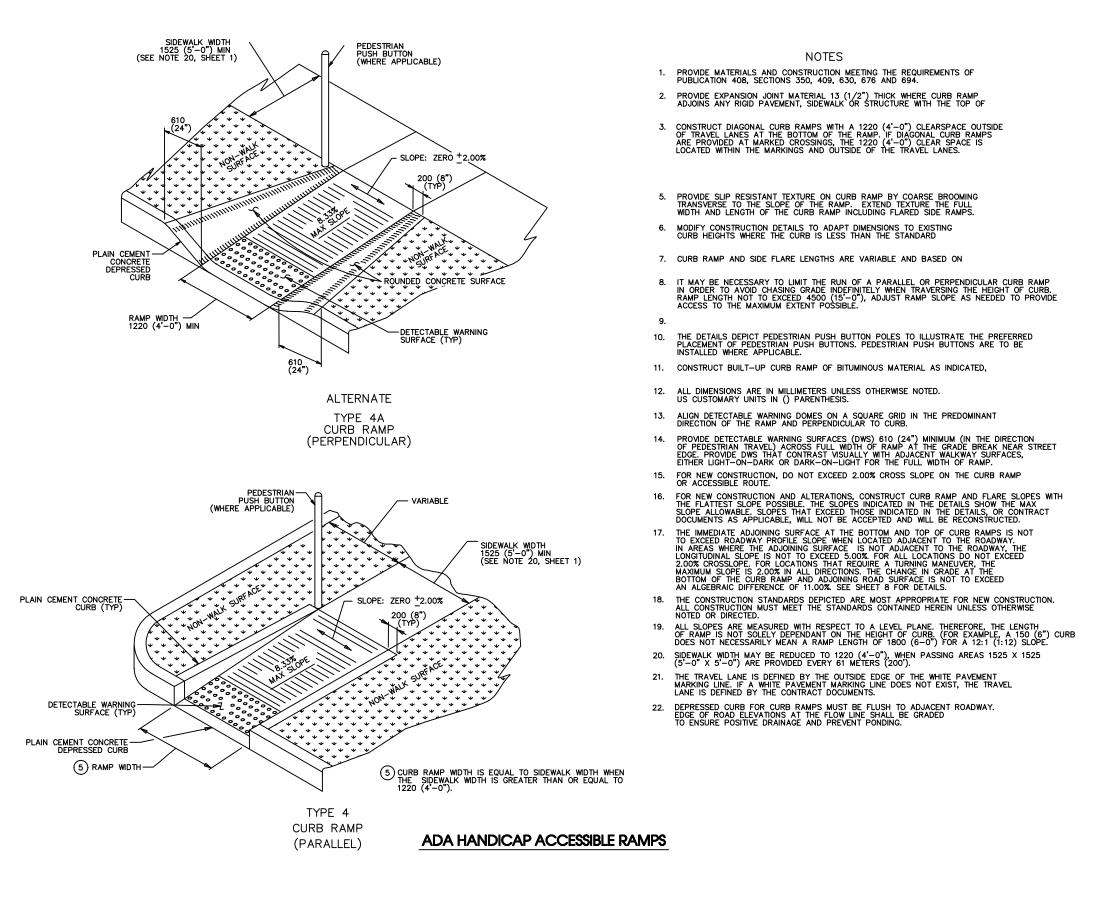
**DETAILS** 

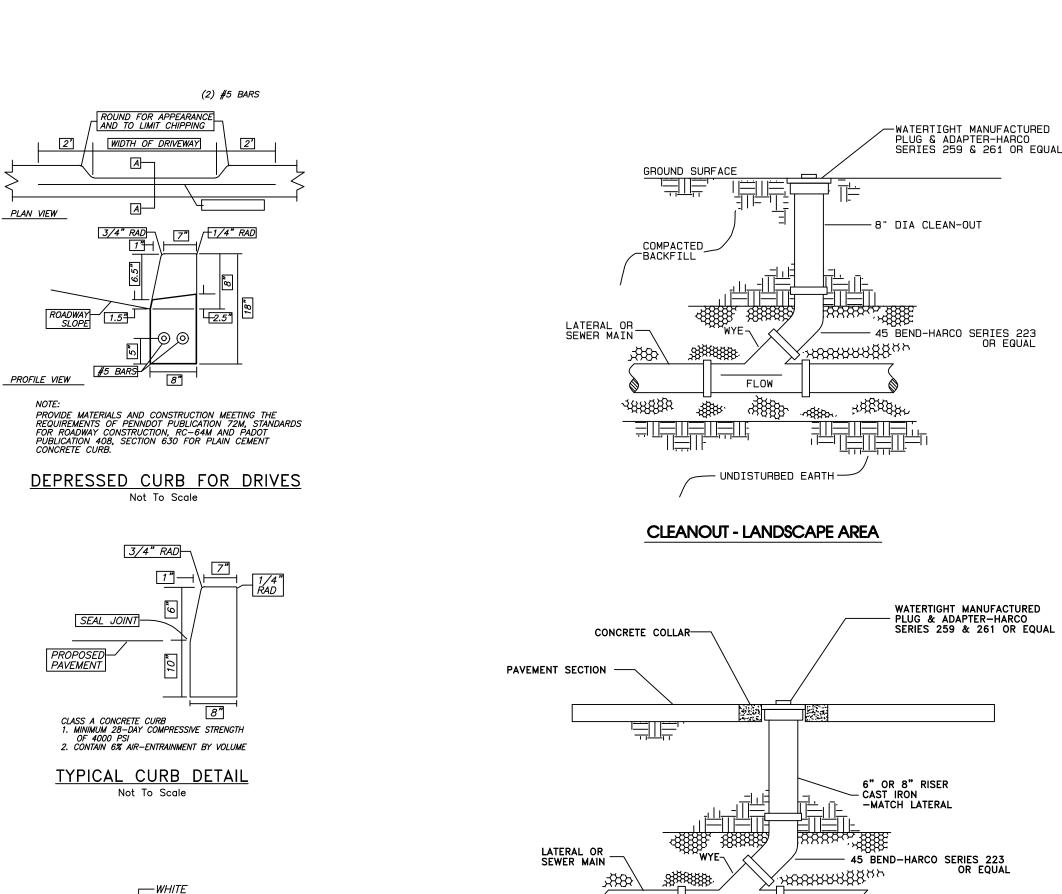
DAVID J. SANDERS, P.E.

PE057436

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NO SCALE





FLOW

UNDISTURBED EARTH -

**CLEANOUT - PAVED AREA** 

PEDESTRIAN

CROSSWALK

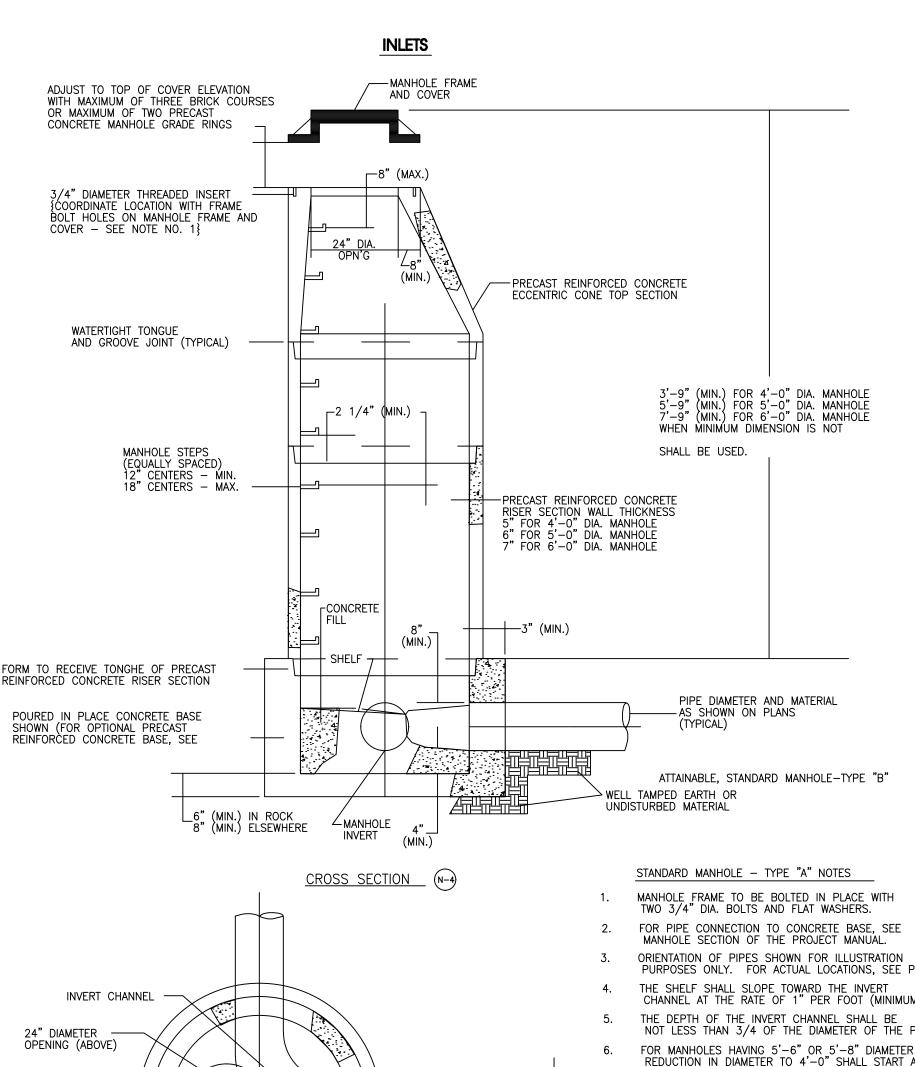
24" MAX.

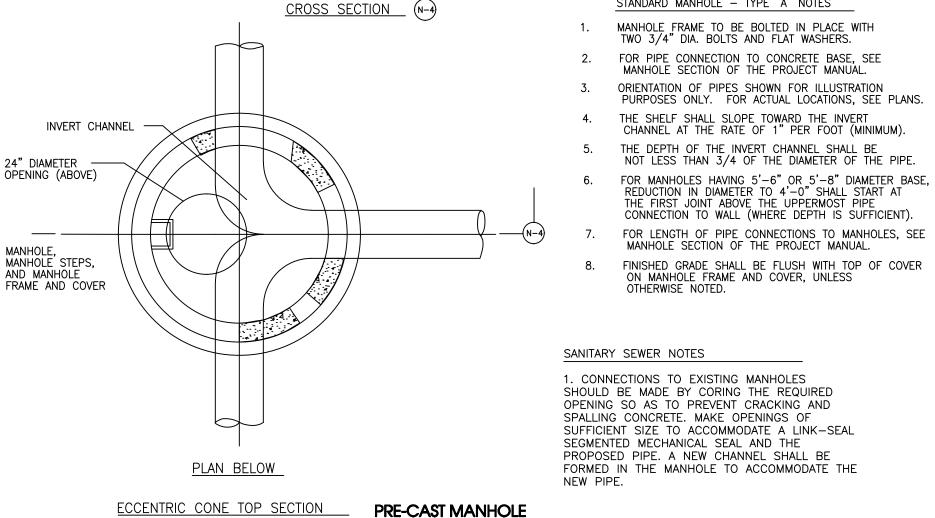
LINE 12" MIN.

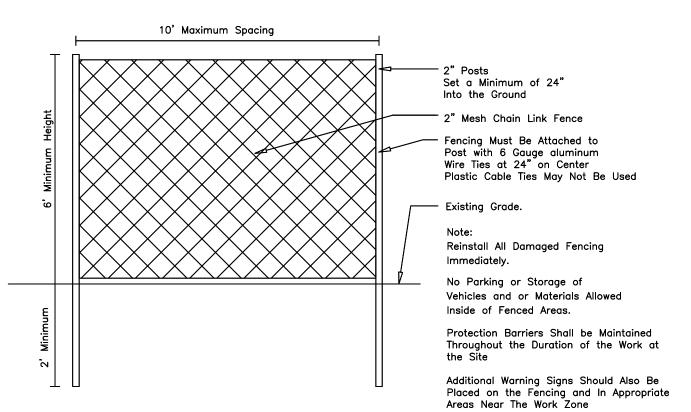
EDGE OF ROAD-

**CROSSWALK DETAIL** 

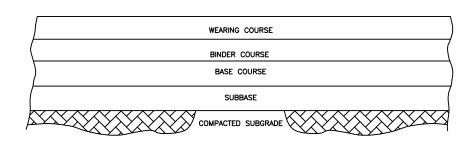
-EDGE OF ROAD







PROTECTIVE TREE PRESERVATION FENCE DETAIL



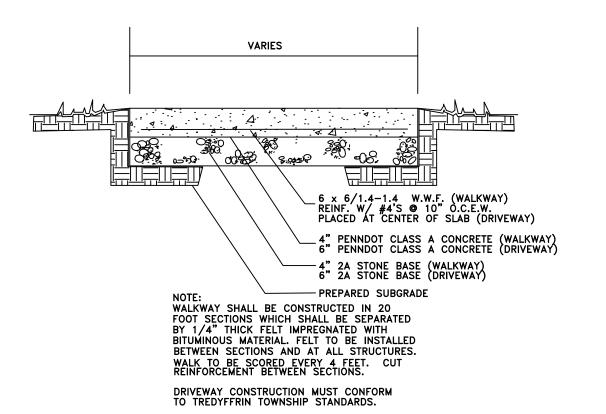
## REQUIRED BITUMINOUS PAVEMENT SECTION N.T.S.

	LOCATION	
DEPTH	STREET	INDIVIDUAL DRIVEWAYS
WEARING:	2"	2"
BINDER:	2" (ID-2 OR FB-1)	NONE
SUBBASE:	8" PA 4A 2" SCREENINGS -VIBRATORY COMPACTED TO FILL VOIDS	8"

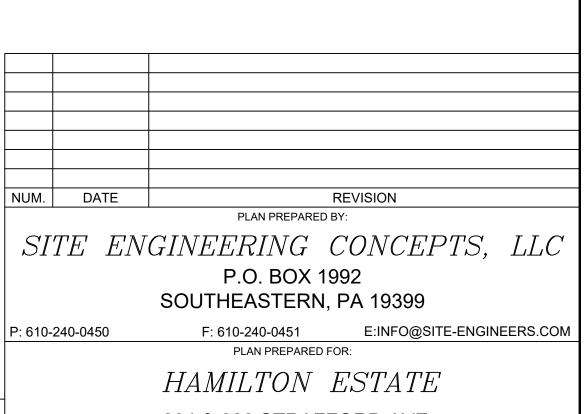
## BITUMINOUS PAVEMENT SPECIFICATIONS, ALL SECTIONS, APPLICABLE

WEARING COURSE	SUPERPAVE, ASPHALT MIXTURE DESIGN, HMA WEARING COURSE, PG 64-22, 3 TO <10 MILLION ESALS, 9.5 MM MUX, SRL-H
BINDER COURSE	SUPERPAVE, ASPHALT MIXTURE DESIGN, HMA WEARING COURSE, PG 64-22, 10 TO <30 MILLION ESALS, 25.0 MM MUX, SRL-H

NOTE: CONSTRUCT COURSE AGGREGATE SUBBASE AND BITUMINOUS PAVEMENT IN ACCORDANCE WITH APPLICABLE SECTIONS OF PADOT PUB. 408.



CONCRETE PAVEMENT (WALKWAY AND DRIVEWAY)



204 & 228 STRAFFORD AVE WAYNE, PA 19087

PROFESSIONAL RADNOR TOWNSHIP DELAWARE COUNTY

DAVID J. SANDERS, P.E.

PE057436

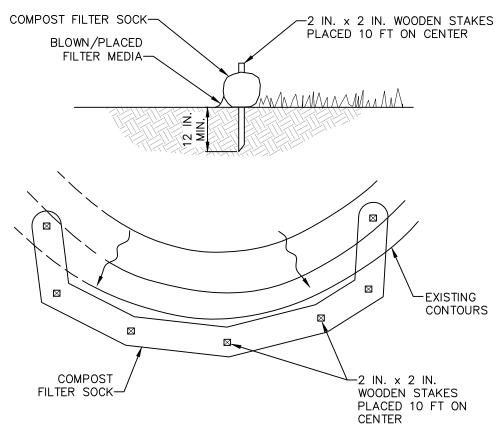
CONSTRUCTION DETAILS

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NO SCALE

PENNSYLVANIA

DATE: MAY 18, 2023



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

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

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

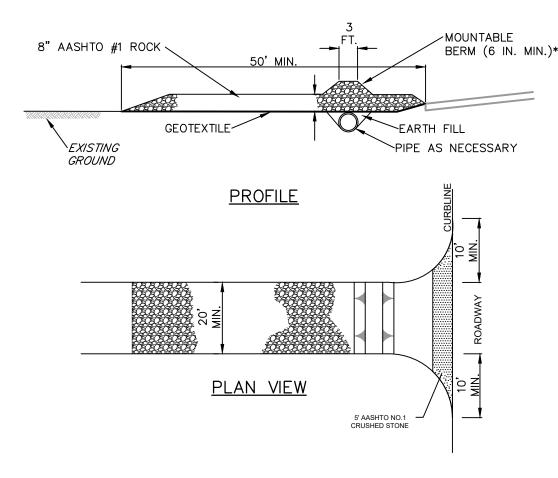
COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

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

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

> STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK

NOT TO SCALE



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

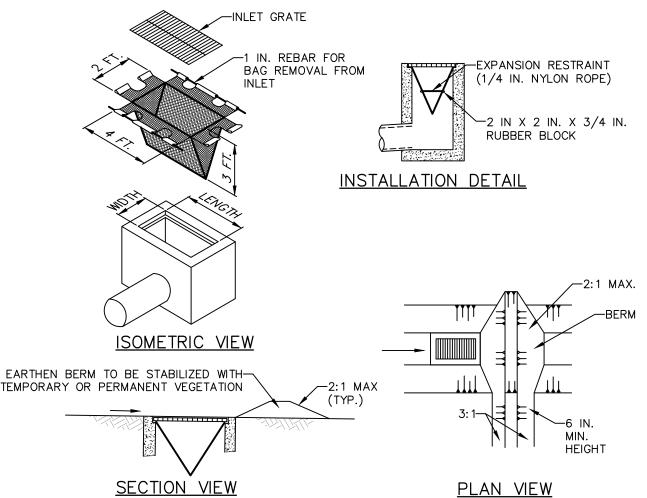
RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

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

## STANDARD CONSTRUCTION DETAIL #3-1 **ROCK CONSTRUCTION ENTRANCE**

NOT TO SCALE



MAXIMUM DRAINAGE AREA = 1/2 ACRE.

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

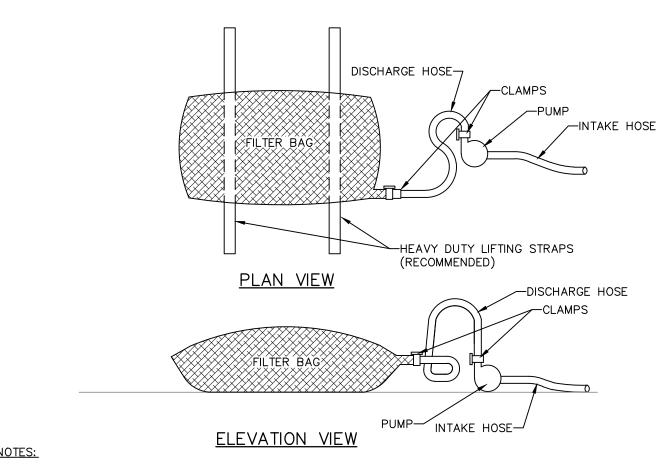
ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR

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 CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

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

STANDARD CONSTRUCTION DETAIL #4-16 FILTER BAG INLET PROTECTION - TYPE M INLET



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

TEST METHOD	MINIMUM STANDARD
ASTM D-4884	60 LB/IN
ASTM D-4632	205 LB
ASTM D-4833	110 LB
ASTM D-3786	350 PSI
ASTM D-4355	70%
ASTM D-4751	80 SIEVE
	ASTM D-4884 ASTM D-4632 ASTM D-4833 ASTM D-3786 ASTM D-4355

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 GEÓTEXTILE 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.

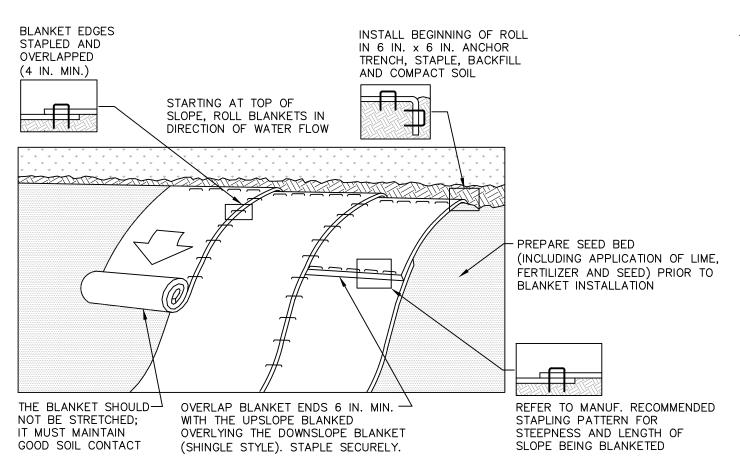
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

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

> STANDARD CONSTRUCTION DETAIL #3-16 PUMPED WATER FILTER BAG

NOT TO SCALE

AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.



### NOTES:

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

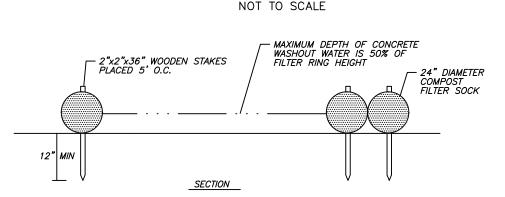
PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

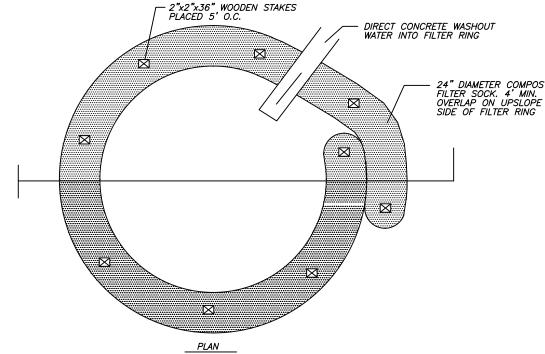
BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY

BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH

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** 





INSTALLATION NOTES:

1. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS. CARE SHOULD BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANE AT ALL LOCATIONS

2. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE

3. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.

GENERAL NOTES:

1. FOR ANY PROJECT ON WHICH CONCRETE WILL BE POURED OR OTHERWISE FORMED ONSITE, A SUITABLE WASHOUT FACILITY MUST BE PROVIDED FOR CLEANING OF CHUTES, MIXERS, AND HOPPERS FOR THE DELIVERY VEHICLES UNLESS ALL DELIVERY VEHICLES WILL BE CLEANED OFFSITE.

2. UNDER NO CIRCUMSTANCES MAY WASH WATER BE ALLOWED TO ENTER ANY SURFACE WATERS.

3. WASHOUT FACILITIES MUST BE MORE THAN 50 FEET FROM STORM DRAINS, OPEN DITCHES, AND 4. NOTIFICATION MUST BE PROVIDED TO DRIVERS SO THEY ARE AWARE OF THE WASHOUT FACILITIES.

MAINTENANCE NOTES:

1. CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.

2. ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY.

3. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.

## CONCRETE WASHOUT DETAIL (USING COMPOST SOCK)

SEEDING AND MULCHING SPECIFICATIONS

4. FOR MORE INFORMATION CONTACT: WEBSITE http://www.filtrexx.com

TEMPORARY-CESSATION OF ACTIVITY FOR 4 DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION. TOPSOIL SHALL BE REPLACED IF NEEDED, REFER TO E&S NOTES FOR REQUIREMENTS

 SEEDING SHALL BE COMMON RYE GRASS APPLIED AT 45 LBS. PER ACRE
 LIMING TO BE APPLIED AT 1 TON/ACRE
 5-5-5 FERTILIZER TO BE APPLIED AT 1000 LBS/ACRE - HAY OR STRAW MULCH TO BE APPLIED AT 3 TONS/ACRE

PERMANENT

- TOPSOIL REPLACEMENT
- SEEDING SHALL BE 15% KENTUCKY BLUEGRASS, 35% KENTUCKY 31 FESCUE, 25% CHEWINGS FESCUE, 15% PERENNIAL RYE GRASS AND 10% RECLEANED REDTOP AT A RATE OF 5 LBS PER 1000 SF
- LIMING TO BE APPLIED AT 3 TONS PER ACRE
- 10-20-20 FERTILIZER TO BE APPLIED AT 1 70 TONS ACRE

HAY OR STRAW MULCH TO BE APPLIED AT 3 TONS/ACRE

THE NON-GERMINATING PERIODS ARE BETWEEN JUNE 15 THRU AUGUST 15 AND SEPTEMBER 30 THRU APRIL 15. AREAS DISTURBED DURING THESE PERIODS MUST BE LIMED, FERTILIZED, SEEDED AND MULCHED IMMEDIATELY.

EROSION CONTROL MAINTENANCE PROGRAM

**TEMPORARY** 

TEMPORARY EROSION CONTROL FACILITIES MAINTENANCE WILL CONSIST OF INSPECTION, CLEANING, REPAIR/REPLACEMENT OF THE ON-SITE EROSION CONTROL FACILITIES THAT ARE SHOWN ON THESE EROSION AND SEDIMENTATION CONTROL FACILITIES THAT ARE SHOWN ON THESE EROSION AND SEDIMENTATION CONTROL PLANS. ALL EROSION AND SEDIMENTATION CONTROL FACILITIES WILL BE CHECKED BY THE CONTRACTOR'S SITE PROJECT MANAGER ON A WEEKLY BASIS AND AFTER EACH STORM EVENT. ALL SEDIMENT MATERIAL COLLECTED BY THE CONTROL FACILITIES WILL BE CLEARED AND REDISTRIBUTE ON—SITE. ANY FACILITIES FOUND TO BE DAMAGED OR MALFUNCTIONING SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

## EROSION AND SEDIMENTATION CONTROL NOTES

1. EROSION AND SEDIMENT BMPS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS.

2. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BMPS MUST BE STABILIZED IMMEDIATELY. 3. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY WITHOUT TRAVERSING A ROCK CONSTRUCTION ENTRANCE. 4. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.

6. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST 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, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY, IF EROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

7. ALL SLOPES 4:1 OR STEEPER MUST UTILIZE EROSION CONTROL BLANKET (ECB) AND SEED OR SOD FOR STABILIZATION 8. UNTIL THE SITE IS STABILIZED ALL EROSION AND SEDIMENTATION BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL SITE INSPECTIONS WILL BE DOCUMENTED IN AN INSPECTION LOG KEPT FOR THIS PURPOSE. THE COMPLIANCE ACTIONS AND DATE, TIME AND NAME OF PERSON CONDUCTING THE INSPECTION. THE INSPECTION LOG WILL BE KEPT ON—SITE AT ALL TIMES AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST.

9. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING, MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENTATION BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S OR MODIFICATIONS OF THOSE INSTALLED WILL BE NEEDED.

). WHERE BMP'S ARE FOUND TO FAIL TO ALLEVIATE EROSION AND SEDIMENT DLLUTION THE PERMITTEE OR CO—PERMITTEE SHALL INCLUDE THE FOLLOWING THE LOCATION AND SEVERITY OF THE BMP'S FAILURE AND ANY POLLUTION B. ALL STEPS TAKEN TO REDUCE, ELIMINATE AND PREVENT THE RECURRENCE OF THE NON-COMPLIANCE.
C. THE TIME FRAME TO CORRECT THE NON-COMPLIANCE, INCLUDING THE EXACT DATES WHEN THE ACTIVITY WILL RETURN TO COMPLIANCE.

11. BEFORE INITIATING ANY REVISION TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE MONTGOMERY COUNTY CONSERVATION DISTRICT THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. 12. ALL PUMPING OF SEDIMENT—LADEN WATER, OR POTENTIALLY SEDIMENT LADEN WATER, SHALL BE THROUCH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON—DISTURBED AREA

13. 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. 14. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS ACT 25 PA CODE 260.1 ET SEQ 271.1 ET SEQ, AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGAL BURY, DUMP OR DISCHARGE ANY BUILDING MATERIAL OR WASTE AT THE SITE.

15. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE MONTGOMERY COUNTY CONSERVATION DISTRICT, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK BORROW AREAS, REGARDLESS OF THEIR LOCATIONS.

6. THE NPDES BOUNDARY IS EQUAL TO THE OUTER PERIMETER BOUNDARY OF HE SITE, AND ANY OFF—SITE AREAS WITHIN THE LIMITS OF DISTURBANCE THAT ARE HE RESPONSIBILITY OF THE DEVELOPER TO INSTALL, INCLUDING OFF—SITE FACILITIES SUCH AS UTILITIES AND ROADWAY IMPROVEMENTS.

17. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINISHED GRADE OR WHICH WILL NOT BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECS. 18. TOPSOIL REMOVED BY GRADING OPERATIONS SHALL BE REDISTRIBUTED AND STABILIZED AS QUICKLY AS POSSIBLE FOLLOWING THE COMPLETION OF THE PROJECT PHASE

19. RUNOFF CROSSING TO THE ADJACENT PROPERTY DURING THE CONSTRUCTION PHASE OF THE PROJECT SHALL BE MANAGED SO THAT THE WATER QUALITY/QUANTITY IMPACT IS MINIMIZED TO THE ADJACENT PROPERTY. DIVERSION BERMS, STONED STAGING AREAS, AND INLETS/PIPING SHALL BE PROVIDED AS NEEDED TO INSURE ACCEPTABLE CONDITIONS DURING CONSTRUCTION. 24. Fill shall not be placed on saturated or frozen surfaces.

## UTILITY LINE TRENCH EXCAVATION NOTES

A. 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.

B. WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PLUG CONSTRUCTION AND BACKFILLING WILL BE SELF-CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS.

C. ALL SOIL EXCAVATED FROM THE TRENCH WILL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.

D. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY.

E. 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.

F. ON THE DATE FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND IMMEDIATELY STABILIZED.

## **CLEAN FILL NOTES**

IF THE SITE WILL NEED TO IMPORT OR EXPORT MATERIAL FROM THE SITE, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILICENCE AND DETERMINATION OF CLEAN FILL WILL REST WITH BRYN MAWR COLLEGE.

APPENDIX C - STANDARD E&S PLAN NOTES

1.All earth disturbances, including clearing and grubbing as well as cuts and fills shall be done in accordance with the approved E&S plan. A copy of the approved drawings (stamped, signed and dated by the reviewing agency) must be available at the project site at all times. The reviewing agency shall be notified of any changes to the approved plan prior to implementation of those changes. The reviewing agency may require a written submittal of those changes for review and

approval at its discretion. 2. At least 7 days prior to starting any earth disturbance activities, including clearing and grubbing, the owner and/or operator shall invite all contractors, the landowner, appropriate municipal officials, the E&S plan preparer, the PCSM plan preparer, the licensed professional responsible for oversight of

critical stages of implementation of the PCSM plan, and a representative from the local conservation district to an on-site preconstruction meeting. 3. At least 3 days prior to starting any earth disturbance activities, or expanding into an area previously unmarked, the Pennsylvania One Call System Inc. shall be notified at 1-800-242-1776 for the location of existing underground utilities.

4. All earth disturbance activities shall proceed in accordance with the sequence provided on the plan drawings. Deviation from that sequence must be approved in writing from the local conservation

district or by the Department prior to implementation. 5. Areas to be filled are to be cleared, grubbed, and stripped of topsoil to remove trees, vegetation, roots and other objectionable material.

6. Clearing, grubbing, and topsoil stripping shall be limited to those areas described in each stage of the construction sequence. General site clearing, grubbing and topsoil stripping may not commence in any stage or phase of the project until the E&S BMPs specified by the BMP sequence for that stage

or phase have been installed and are functioning as described in this E&S plan. 7. At no time shall construction vehicles be allowed to enter areas outside the limit of disturbance boundaries shown on the plan maps. These areas must be clearly marked and fenced off before clearing and grubbing operations begin.

8. Topsoil required for the establishment of vegetation shall be stockpiled at the location(s) shown on the plan maps(s) in the amount necessary to complete the finish grading of all exposed areas that are to be stabilized by vegetation. Each stockpile shall be protected in the manner shown on the plan drawings. Stockpile heights shall not exceed 35 feet. Stockpile slopes shall be 2H:1V or flatter. 9. Immediately upon discovering unforeseen circumstances posing the potential for accelerated erosion and/or sediment pollution, the operator shall implement appropriate best management practices to minimize the potential for erosion and sediment pollution and notify the local conservation district

and/or the regional office of the Department. 10. All building materials and wastes shall be removed from the site and recycled or disposed of in accordance with the Department's Solid Waste Management Regulations at 25 Pa. Code 260.1 et seq., 271.1, and 287.1 et. seq. No building materials or wastes or unused building materials shall be

burned, buried, dumped, or discharged at the site. 11. All off—site waste and borrow areas must have an E&S plan approved by the local conservation district or the Department fully implemented prior to being activated.

12. The contractor is responsible for ensuring that any material brought on site is clean fill. Form FP-001 must be retained by the property owner for any fill material affected by a spill or release of a regulated substance but qualifying as clean fill due to analytical testing.

13. All pumping of water from any work area shall be done according to the procedure described in this plan, over undisturbed vegetated areas.

14. Vehicles and equipment may neither enter directly nor exit directly from lots onto 15. Until the site is stabilized, all erosion and sediment BMPs shall be maintained properly. Maintenance shall include inspections of all erosion and sediment BMPs after each runoff event and on a weekly basis. All preventative and remedial maintenance work, including clean out, repair, replacement, regrading, reseeding, remulching and renetting must be performed immediately. If the E&S BMPs fail to perform as expected, replacement BMPs, or modifications of those installed will be required. 16. A log showing dates that E&S BMPs were inspected as well as any deficiencies found and the date they were corrected shall be maintained on the site and be made available to regulatory agency

officials at the time of inspection. 17. Sediment tracked onto any public roadway or sidewalk shall be returned to the construction site by the end of each workday and disposed in the manner described in this plan. In no case shall the sediment be washed, shoveled, or swept into any roadside ditch, storm sewer, or surface water. 18. All sediment removed from BMPs shall be disposed of in the manner described on the plan drawings.

19. Areas which are to be topsoiled shall be scarified to a minimum depth of 3 to 5 inches -6 to 12 inches on compacted soils — prior to placement of topsoil. Areas to be vegetated shall have a minimum 4 inches of topsoil in place prior to seeding and mulching. Fill outslopes shall have a minimum of 2 inches of topsoil.

20. All fills shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related problems. Fill intended to support buildings, structures and conduits, etc. shall be compacted in accordance with local requirements or codes.

21. All earthen fills shall be placed in compacted layers not to exceed 9 inches in thickness. 22. Fill materials shall be free of frozen particles, brush, roots, sod, or other foreign or objectionable materials that would interfere with or prevent construction of satisfactory fills. 23. Frozen materials or soft, mucky, or highly compressible materials shall not be incorporated into fills.

25. Seeps or springs encountered during construction shall be handled in accordance with the standard and specification for subsurface drain or other approved method. 26. All graded areas shall be permanently stabilized immediately upon reaching finished grade. Cut

21. GRADING AND EARTHMOVING OPERATIONS SHALL BE MINIMIZED DURING THE PERIOD FROM NOVEMBER 15 TO APRIL 1 WHEN RE-VEGETATION OF EXPOSED GROUND SURFACE IS DIFFICULT. MULCH, STRAW, STONE AND/OR SOD SHALL BE USED TO STABILIZE ALL AREAS DENUDED DURING THIS TIME PERIOD.

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. standards of this plan. 27. Immediately after earth disturbance activities cease in any area or subarea of the project, the operator shall stabilize all disturbed areas. During non-germinating months, mulch or protective

blanketing shall be applied as described in the plan. Areas not at finished grade, which will be reactivated within 1 year, may be stabilized in accordance with the temporary stabilization specifications. Those areas which will not be reactivated within 1 year shall be stabilized in accordance with the permanent stabilization specifications.

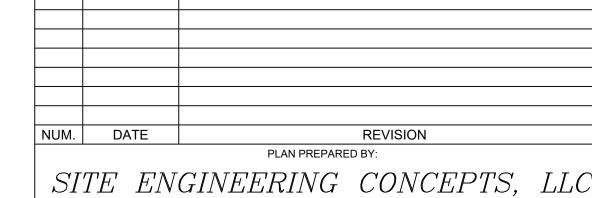
28. Permanent stabilization is defined as a minimum uniform, perennial 70% vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated erosion. Cut and fill slopes shall be capable of resisting failure due to slumping, sliding, or other movements.

29. E&S BMPs shall remain functional as such until all areas tributary to them are permanently stabilized or until they are replaced by another BMP approved by the local conservation district or the Department.

30. Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operator shall contact the local conservation district for an inspection prior to removal/conversion of the E&S BMPs.

31. After final site stabilization has been achieved, temporary erosion and sediment BMPs must be removed or converted to permanent post construction stormwater management BMPs. Areas disturbed during removal or conversion of the BMPs shall be stabilized immediately. In order to ensure rapid revegetation of disturbed areas, such removal/conversions are to be done only during the germinating

32. Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operator shall contact the local conservation district to schedule a final inspection. 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 Pennsylvania Clean Streams Law. The Clean Streams Law provides for up to \$10,000 per day in civil penalties, up to \$10,000 in summary criminal penalties, and up to \$25,000 in misdemeanor criminal penalties for each violation.



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> HAMILTON ESTATE 204 & 228 STRAFFORD AVE

**WAYNE, PA 19087** RADNOR TOWNSHIP DELAWARE COUNTY

**EROSION AND SEDIMENTATION CONTROL DETAILS** 

DAVID J. SANDERS

DAVID J. SANDERS, P.E. PE057436

SHEET 9 of 14

PENNSYLVANIA

DATE: MAY 18, 2023

NO SCALE