

#### 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 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
- 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 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 125 0175 STRAFFORD AVE, 36-12-263
- 200 EAGLE RD, 36-11-314

# 204 & 228 STRAFFORD AVENUE CONDITIONAL USE PLAN SET



MAP SHOWING FEATURES WITHIN 300' OF PROPERTY LINE



## 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

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

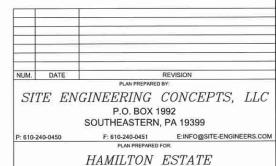
ATTN: CHARLES HOUDER 551 W LANCASTER AVE, SUITE 307 HAVERFORD, PA 19041 P: (610) 389-0305 E: DCH@HAVERFORDPROPERTIES.COM

#### DRAWING SCHEDULE

- 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, P.E.

- 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



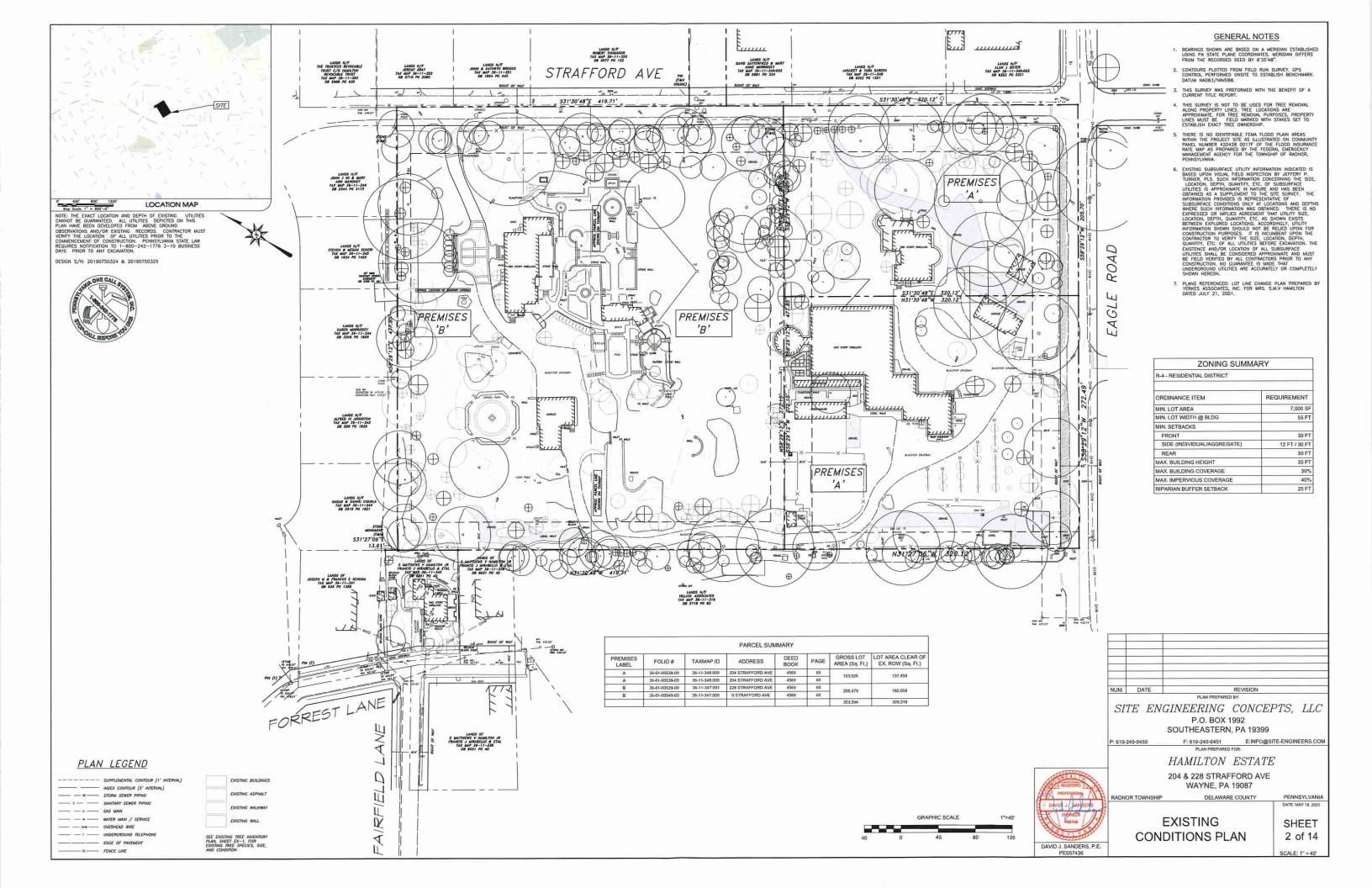
204 & 228 STRAFFORD AVE

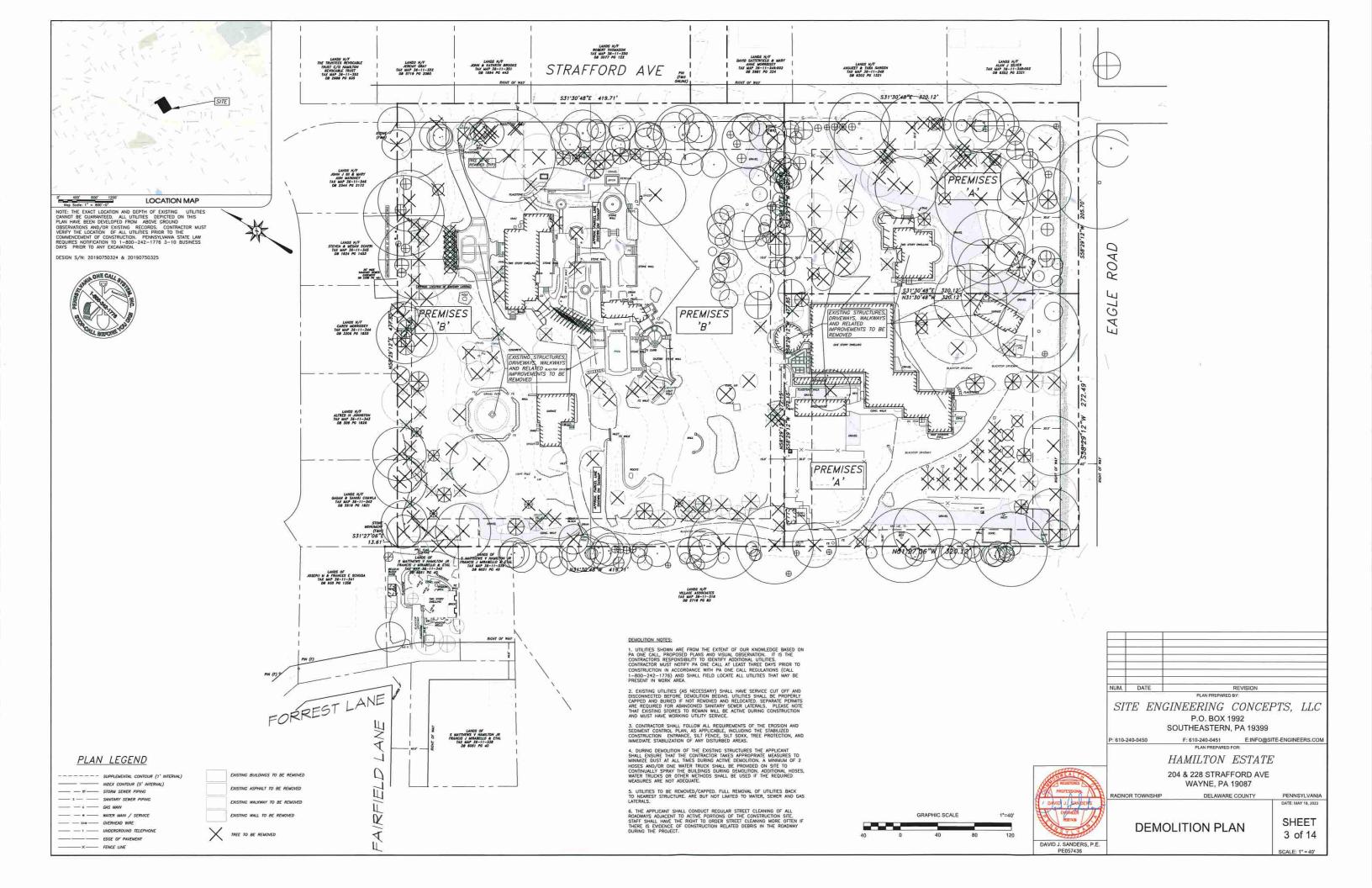
**WAYNE, PA 19087** 

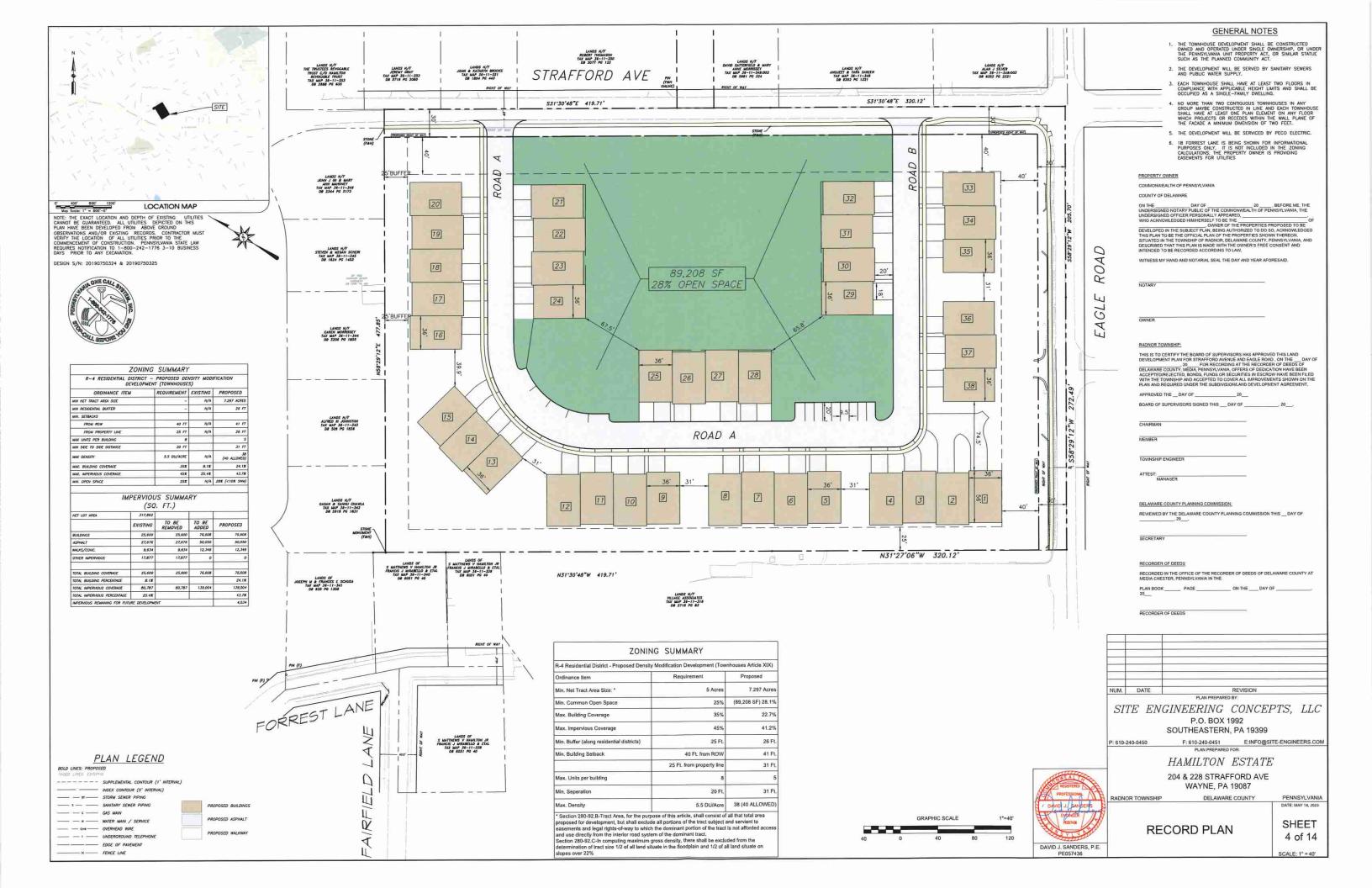
**COVER SHEET** 

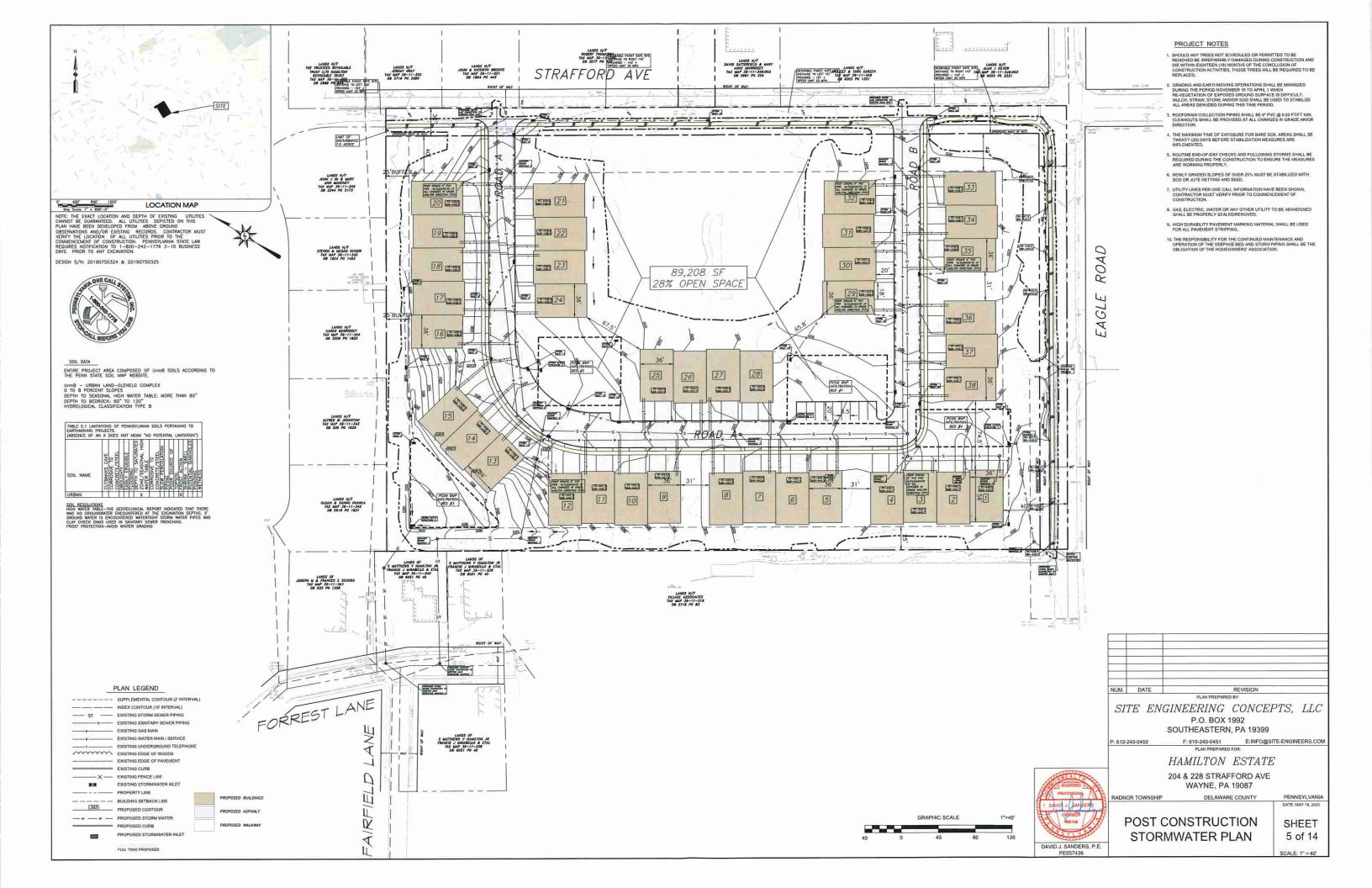
SHEET 1 of 14

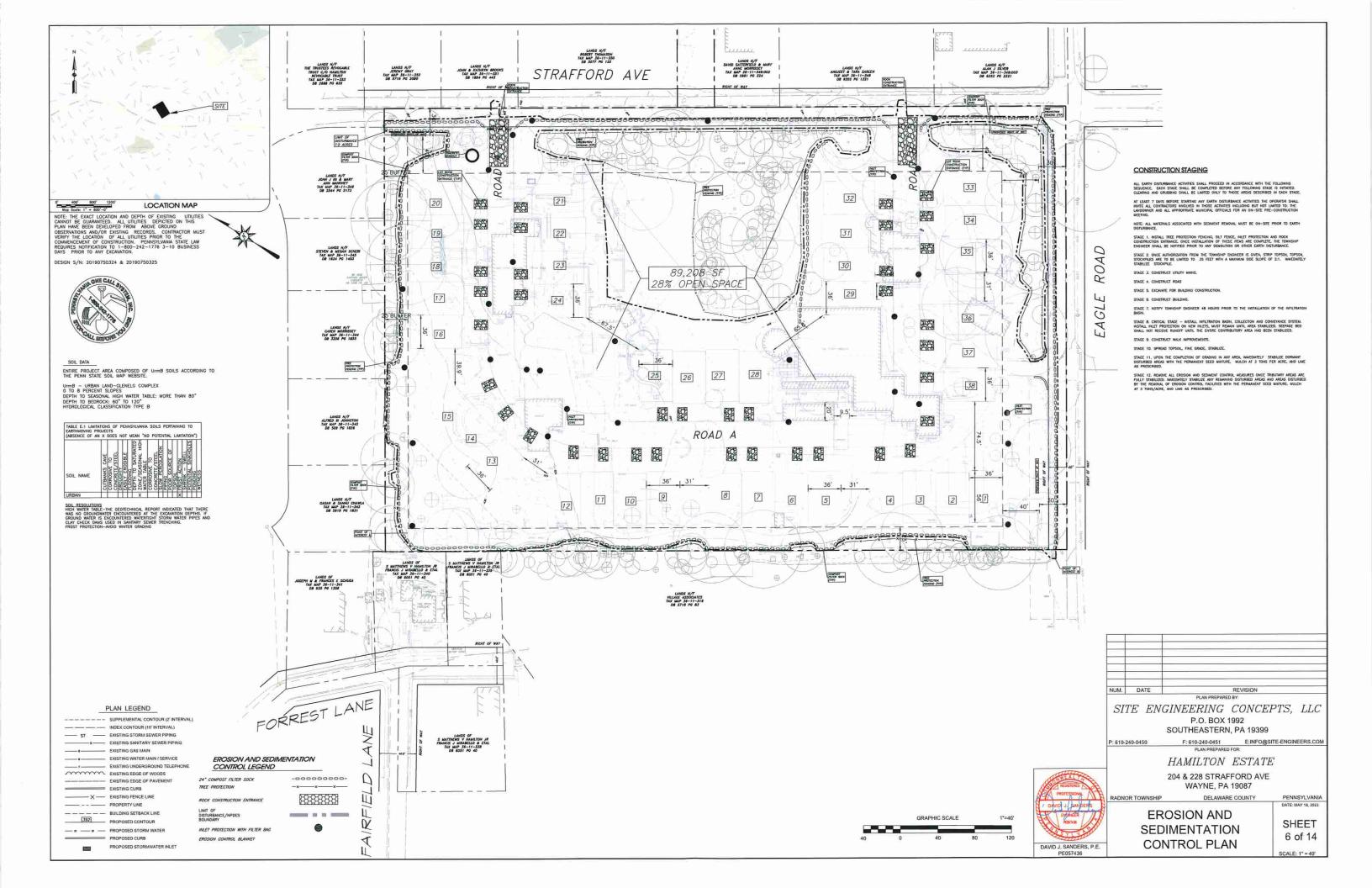
PENNSYLVANIA

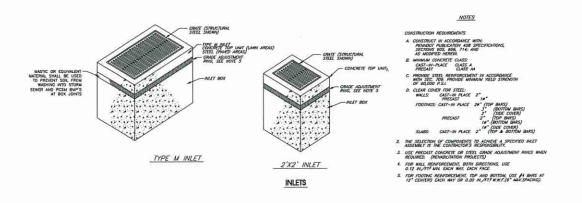


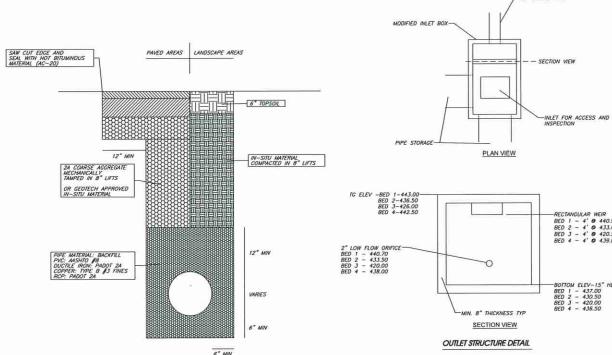


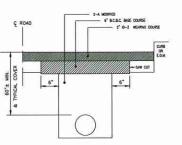












TYPICAL UTILITY TRENCH

FLEXIBLE PAVEMENT RESTORATION



SPLASH BLOCK

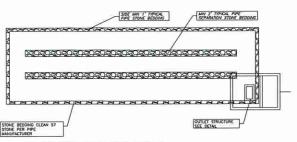
ROOF DRAIN TO-

ELBOW

BUILDING FOUNDATION

PROVIDE OVERFLOW PIPE AT DOWNSPOUTS DRAINING TO INFILTRATION BED

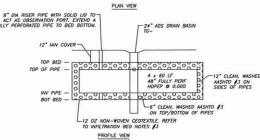
-15" OUTLET PIPE



#### STORMWATER PIPE STORAGE NOTES

- BEDS 1-6 48" PIPE STORAGES SHALL BE FULLY PERFORATED HDPE.
   ALL CONVEYANCE PIPHOD SHALL BE SOLID HDPE WITH WATERTIGHT JOINTS.
   5. STONE BEDDING BELOW PIPE.
   6. STONE COVERAGE ABOYEPPE.

#### 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.

- 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

- AMBIEL IMMATIGUITIES, MINITERIORIS, LIE PIPE STORMOS:

  I. MARIFICHNOS, CATATIES TO BE DONE AMMALLY AND WITHIN 48 HRS AFTER EVERY MAJOR
  STORM LEWIT (5-1 MCM RAINFALL DETM).

  S. KEEPING ALL BERRIS, INCLUDING GRASS CUPPINGS, LEWES, AND MOTOR OIL CLEAR OF
  INLET AND OUTLET STRUCTURES.

  REMOVING ANY ACCUMALIZED. DEBMS.

  REMOVING ANY ACCUMALIZED. DEBMS.

  REMOVED ANY ACCUMALIZED. DEBMS.

  S. REMOVING ANY ACCUMALIZED.

  S
- LONGTERM/NON-ROUTINE MAINTENANCE OF PIPE STORAGE:

- INCESSARY.

  2. REMOVE ACCUMULATED SEDMENT/POLIUTANTS.

  4. RECONSTRUCT.

  5. PROMDE FOR COMPLETION OF A WRITTEN REPORT DOCUMENTATION EACH INSPECTION AND ALL DUR REPORT AND MAINTENANCE ACTIVITY.

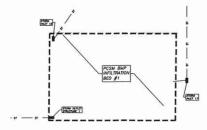
  INSPECTION AND ALL DUR REPORT AND MAINTENANCE ACTIVITY.

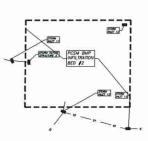
  THE SPECTION AND ACTION SIGNIFICANT STORM EVENTS.

  7. IF STORM WATER FACILITIES DO NOT DEATH AFTER STORM EVENTS, THEY SHALL BE INSPECTED AND THEN FIXED OR REPUACED AS DETERMINED MEETSSARY. IN THE EVENT THE PROPERTIES AND THE STORME FALLS.
- 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 SUBFACE.
  THE FOLLOWING FORMULA DETERMINES THE # OF HOLESUNIEAR FOOT OF PIPE:
  [13.24" FOID OF PIPE N FEETI] (FIDLE SIZE IN INCHES) \*2", SO FOR A 8" DIA PIPE THERE MUST BE AT LEAST 90 HOLES / LINEAR FOOT.
- 3. ENTIRE BED, SIDES TOP AND BOTTOM, SHALL BE WRAPPED IN SYNTHETIC INDUSTRIES NON-WOVEN 81201 OR ENGINEER APPROVED EQUAL, PROVIDE A MINIMUM 1' OVERLAP AT ALL SEAMS AND JOINTS, WHERE PROTUSIONS OR PENETRATIONS OCCUR, GEOTEXTILE SHALL BE PERMANENTLY AFFIXED TO OBJECT.
- 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

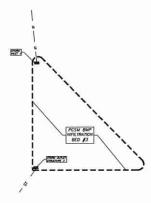
- 1. SCARIFY BOTTOM AND SIDES OF BASIN, TAKING CARE NOT TO COMPACT SOIL.
- 2. PIPE MUST HAVE PERFORATIONS NO LESS THAN \$1/6" DIAMETER AND PROVIDE AN OPEN AREA OF NOT LESS THAN 3.31 SQUARE INCHES PER SQUARE FOOT OF PIPE SUBFACE.
  THE FOLLOWING FORMULA DETERMINES THE # OF HOLESLINEAR FOOT OF PIPE:
  11.34" FOUR OF PIPE IN FEET! (FIVEL STEED IN INCHES) #2. SO FOR A 72" DIA PIPE THERE MUST BE AT LEAST 814 HOLES / LINEAR FOOT
- 3. ENTIRE BED, SIDES TOP AND BOTTOM, SHALL BE WRAPPED IN SYNTHETIC INDUSTRIES NON-MOVEN 1120 OR ENGINEER APPROVED EQUAL, PROVIDE A MINIMUM 1 'OVERLAP AT ALL SEAUS AND JOINTS, WHERE PROTRUSIONS OR PENETRATIONS OCCUR, GEOTEXTILE SHALL BE PERMANENTLY AFFIRED TO ORJECT.
- 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.
- 6. ALL CMP SHALL BE ALUMINIZED STEEL.

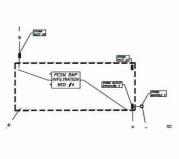




INFILTRATION BED #1 DETAIL

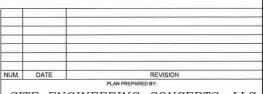
INFILTRATION BED #2 DETAIL





INFILTRATION BED #3 DETAIL

INFILTRATION BED #4 DETAIL



SITE ENGINEERING CONCEPTS, LLC P.O. BOX 1992

SOUTHEASTERN, PA 19399 E:INFO@SITE-ENGINEERS.COM F: 610-240-0451 P: 610-240-0450

RADNOR TOWNSHIP

DAVID J. SANDERS, P.E.

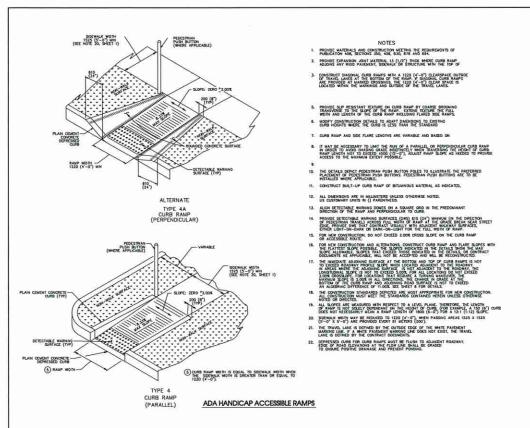
HAMILTON ESTATE

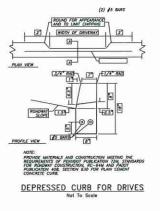
204 & 228 STRAFFORD AVE **WAYNE, PA 19087** 

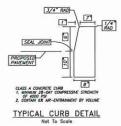
POST CONSTRUCTION STORMWATER

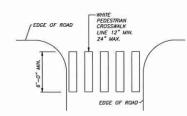
DETAILS

DATE: MAY 18, 2023 SHEET 7 of 14



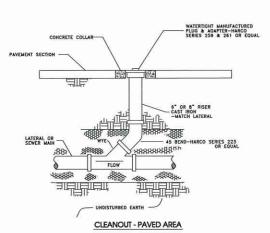


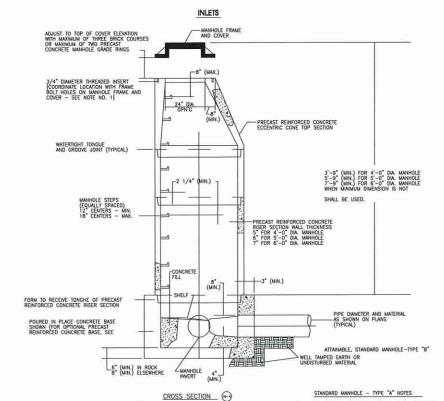


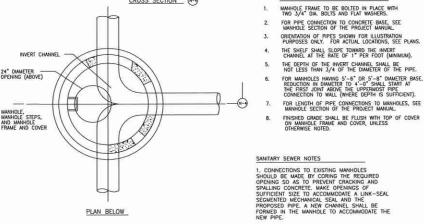


CROSSWALK DETAIL

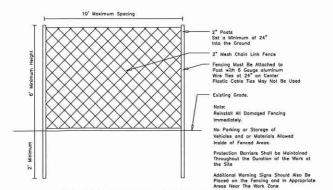
CLEANOUT - LANDSCAPE AREA



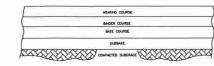




ECCENTRIC CONE TOP SECTION PRE-CAST MANHOLE



PROTECTIVE TREE PRESERVATION FENCE DETAIL



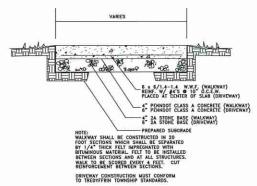
# PAVEMENT SECTION N.T.S.

	LOCATION	
DEPTH	STREET	DRIVEWAYS
VEARING:	2*	2*
BINDER:	2" (O-2 OR F8-1)	NONE
SUBBASE	8° PA 4A 2° SCREENINGS -VIBRATORY COMPACTED TO FILL YORDS	6*

#### DETERMINATION DAVIENTEDECITION AND ALL SECTIONS ADDITIONS

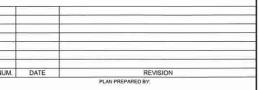
Diffinition	ENIENT SPECIFICATIONS, ALL SECTIONS, APPLICABLE
WEARING COURSE	SUPERPAVE, ASPHALT MIXTURE DEDICH, HWA WEARING COURSE, PG 64-22, 3 TO <10 MILLION ESALS, 9.5 MM MUX, SRL-H
BINGER COURSE	SUPERPAVE, ASPHALT MIXTURE DESIGN, HWA WEARING COURSE, PG 64-22, 10 TO <50 MILLION ESALS, 25.0 MM MUX, SRL-H

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



### CONCRETE PAVEMENT (WALKWAY AND DRIVEWAY)

DAVID J. SANDERS, P.E.



SITE ENGINEERING CONCEPTS, LLC P.O. BOX 1992

SOUTHEASTERN, PA 19399

0-0450 F: 610-240-0451 E:INFO@SITE-ENGINEERS.COM

PLAN PREPARED FOR:

HAMILTON ESTATE

204 & 228 STRAFFORD AVE WAYNE, PA 19087

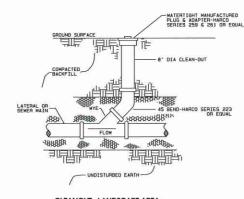
WAYNE, PA 1908
RADNOR TOWNSHIP DELAWARE COU

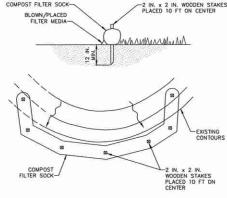
COUNTY PENNSYLVANIA

DATE: MAY 18, 2023

CONSTRUCTION DETAILS

CTION SHEET 8 of 14





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.

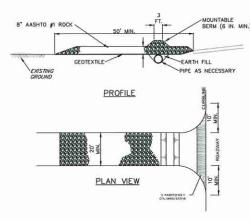
COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST B FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT, MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY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

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. TH 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 SOLL SUPPLEMENT.

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



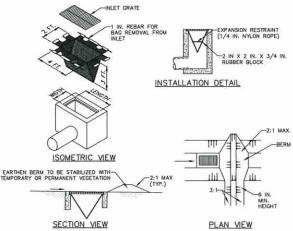
REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE, EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

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 OTHERMSE PROVIDED, PIPE SHALL BS 3250 APPROPRIATELY FOR 322 OF DITCH BEINO 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 SEQUIENT OPPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEIND DEPOSITED ON ROADWAY, EXTEND LEAGHT OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVARTED 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



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.

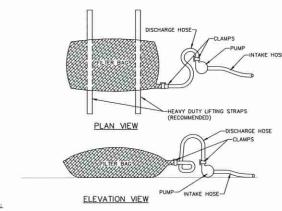
ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.

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 SEVE.

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 STEP REPLACEMENT OF BAGS, ALL NEEDED REPAIRS SHALL BE INTAINED IMMEDIATELY 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



#### NOTES:

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

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

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

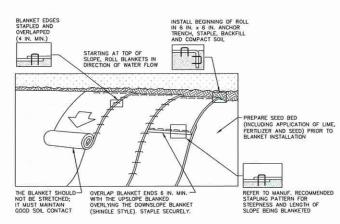
BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY, BAGS SHALL NOT BY PLACED ON SLOPES GREATER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

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



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

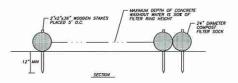
PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

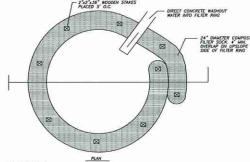
SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

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

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIL VEGETATION IS ESTABLISHED TO A MINIMUM UNFFORM 70% COVERAGE THROUGHOUT THE BLANKETS BAMAGED OR BISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

#### STANDARD CONSTRUCTION DETAIL #11-1 EROSION CONTROL BLANKET INSTALLATION





NOTALIATION MOTES.

1. SURFIGUE MEPHYLOUS CENCURBANE SMLL BE PLACED AT THE LOCATION OF THE MISSION PROBE TO ...
1. SURFIGUE MEPHYLOUS CONDUCTURE TO DESURE CONTRIOUS CONTACT OF THE SOCK WITH THE ...
2. SURFIGUE TO THE SOCK WITH THE SOCK WITH THE ...
2. MISSION OF THE SOCK WITH THE SOCK WITH THE ...
2. MISSION OF THE SOCK WITH THE SOCK WITH THE ...
2. MISSION OF THE SOCK WITH THE SOCK WITH THE ...
2. MISSION OF THE SOCK WITH THE SOCK WITH THE ...
2. MISSION OF THE SOCK WITH THE SOCK WITH THE ...
2. MISSION OF THE SOCK WITH THE SOCK WITH THE ...
2. MISSION OF THE SOCK WITH THE SOCK WITH THE ...
2. MISSION OF THE SOCK WITH THE ...
2. MISSION OF THE ...
2. MISSION OF THE SOCK WITH THE ...
2. MISSION OF THE ...
2. MISSION OF THE SOCK WITH THE ...
2. MISSION OF THE SOCK WITH THE ...
2. MISSION OF THE ...
2. MISSION OF THE SOCK WITH THE ...
2. MISSION OF THE ...
2. MISSION OF

MANITEMANCE NOTES:

1. CONCRETE MUSHOUT FACULTIES SHOULD BE HISPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE OBSERVACED IMMEDIATELY.

2. ACCUMULATED WHITES SHOULD BE REDUCED WHICH THE PASCH YES CAPACITY.

2. PASTIC LIBERS SHOULD BE REDUCED WITH DOOR LEDWING OF THE MESHOUT FACULTY.

#### CONCRETE WASHOUT DETAIL (USING COMPOST SOCK)

#### SEEDING AND MULCHING SPECIFICATIONS

TEMPORARY-CESSATION OF ACTIVITY FOR 4 DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION. TOPSOIL SHALL BE REPLACED IF NEEDED, REFER TO EAS 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 FER 1000 SF
   LUMING TO BE APPLIED AT 3 TONS FER ACRE
   10-20-20 TERRITIZER TO BE APPLIED AT 100 LBS/ACRE
   HAY OR STRAW MILCH 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

### EROSION AND SEDIMENTATION CONTROL NOTES

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

 AFTER FINAL STE STABULZATION HAS BEEN ACHEVED, TEMPORARY EROSION. AND SEDIMENT BUPS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE BUP'S MUST BE STABLIZED IMMEDIATELY. 3. VEHICLES AND EQUIPMENT MAY NOTHER ENTER DIRECTLY NOR EXIT DIRECTLY WITHOUT TRAVERSING A ROCK CONSTRUCTION ENTRANCE.

4. STOCKPILE HEIGHTS WUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR PLATTER. ONLY LIMITED DISTURBANCE WILL BE PERMITTED TO PROVIDE ACCESS TO THE SEDMENT TRAP FOR CRADING AND ACQUIRING BORROW TO CONSTRUCT THOSE BMPS.

7. ALL SLOPES 4:1 OR STEEPER MUST UTILIZE EROSION CONTROL BLANKET (ECB) AND SEED OR SOO FOR STABILIZATION

B. LUTE, THE STE STANDLING ALL BOSON AND SEMEPHAND BUPS HERE AND STANDLING AND SEMEPHAND BUPS HERE AND STANDLING AND SEMEPHAND STANDLING ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESIZEDING, AND REMETTING, MUST SE PREPORTED IMMEDIATELY. IF FROSTON AND SEMILENTATION BUPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BUP'S OR MODIFICATIONS OF THOSE INSTALLES MILL BE MEEDED.

10. WHERE BUP'S ARE FOUND TO FAIL TO ALLEVATE EROSION AND SEDIMENT POLLUTION THE PERMITTEE OR CO-PERMITTEE SHALL INCLUDE THE FOLLOWING INFORMATION. RIANDON.

A. THE LOCATION AND SEVERITY OF THE BUP'S FARURE AND ANY POLLUTION EXCHANGES STEPS TAKEN TO REDUCE, ELIMINATE AND PREVENT THE RECURRENCE OF THE NON-COMPLIANCE, INCLUDING THE ROCK HERDING CONFIGURATION.

C. THE THE FRANK TO COMPLET THE NON-COMPLIANCE, INCLUDING THE EXACT ONES MENT THE ACTIVITY WAS IMPROBATED.

IT, BETORE ORDINO ME RESON TO DE APPROCED DESIGNATION OF STREET OF THE PLANT MEDIA AFTER THE PERSON MEDIA AFTER TH

12. ALL PUMPING OF SEDMENT-LADEN WATER, OR POTENTIALLY SEDMENT LADEN WATER, SHALL BE THROUGH A SEDMENT CONTROL BMP, SUCH AS A PUMPED WATER FLITER BAD DISCHARGING OVER NON-DISTURBED AREA 13. THE CONTRACTOR IS ADMSED TO BECOME THOROUGHLY FAMILIAR WITH THE PROMISIONS OF THE APPENDIX 64, ENGIGIN COURTICL RULES AND REQUILITIONS, TILLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUBPRITC, PROTECTION OF NATURAL RESOURCES, ARRILLE III, METER RESOURCES, CHAPTER 102, EMPSION CONTROL.

14. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOUD WASTE WANAGEWENT REGULATIONS ACT 25 PA CODE 250.1 ET SEG 271.1 ET SEG, AND 287.1 ET SEG, THE CONTRACTOR SHALL NOT LLEGALL'S BURY, DULPY OR DISCHARGE WITH BUILDING WASTERN, OW DISPOSE AT THE THE TERM. 13. A COPY OF THE APPROVED EROSON AND SERMINT CONTROL FAM MIST BE AWALBLE AT THE PROJECT STE AT ALL TIMES. THE OPPRATOR SHALL ASSURE THAT AN EROSON AND SEDIMENT CONTROL FUN HAIG BEEN PROPATO, APPROVED AND MAINTAINED FOR ALL SOLL AND/OR ROOK BORROW AREAS, RECARDLESS OF THEIR LOCATIONS.

30CH AS UNLIES AND THE CONSIDERED TO HAVE ADDRESS FIRST STABILIZATION WHICH IT AND A MERGANIC LOSE OF CHIEF CREATION OF FEDERAL WILLIAMS CORES OF CHIEF CREATION OF FEDERAL WILLIAMS CORES OF CHIEF CREATION OF THE CONTROL OF CHIEF CREATION OF CREATION OF

18. TOPSOIL REMOVED BY GRADING OPERATIONS SHALL BE REDISTRIBUTED AND STARLISED AS OURSELY AS PASSIBLE FOLLOWING THE COMPLETION OF THE PROJECT PHASE

20. SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN LANDSCAPE AREAS OUTSIDE OF STEEP SLOPES, WEILANDS, FLOODPLINES OR DRAINAGE SWALES AND INHEDIATELY STABILIZED, OR PIAZOED IN TOPSOIL STOCKPILES. 21. GRADING AND EARTHWOVING OPERATIONS SHALL BE MINIMIZED DURING THE PERSON FROM NOVEMBER 13. TO APPRIL 1 MICH RE-VECETATION OF EXPOSED SPECIAL STORE ALL AREAS SERVICES DEFICULT. MULCH, STRAM, STORE AND/OR SOO SHALL BE USED TO STABILIZE ALL AREAS SERVICES.

#### UTILITY LINE TRENCH EXCAVATION NOTES

- A LIST GENERAL CLARGE ARE GREEN PERSONS TO SECURITY TO THE THE CLARGE ARE GREEN PERSONS TO A SECURITY OF THE CASE ALL THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CASE ALL THE CASE AND A CONTROL OF THE CASE

#### CLEAN FILL NOTES

IF THE SITE MILL NEED TO IMPORT OR EXPORT MATERIAL FROM THE SITE, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE OLICENCE AND DEPOTMENTATION OF CLEAN FILL MILL REST WITH BRITH MANY COLLEGE. MEAN FILL AFFICIED BY A SPIL OF RELEASE OF A REQUARD SUBSTANCE:
MARRIANS AFFICIED BY A SPIL OF RELEASE OF A REQUARD SUBSTANCE
STILL DULINGS AS CLEAN FUL PROVOSED BY ITS INSING SEALS THAT THE FI MATERIAL CONTRACT CONCUMENTS OF REDULARDY SUBSTANCES THAT ARE
MATERIAL CONCUMENTS OF THE STANDARD SUBSTANCES THAT ARE
DEPOSIT THAT SUBSTANCES OF THE STANDARD AFFILE STANDARD AFFILE STANDARD SUBSTANDARD SUBSTA

#### APPENDIX C - STANDARD E&S PLAN NOTES

APPRIDIX C — STANDARD EAS PLAN NOTES

1.All earth disturbances, including clearing and grubbing as well as cuts and fills shall be done in accordance with the approved EAS plan. A copy of the approved drawings (stumped, signed and doted by the reviewing agency) must be avoided at the project sits at all times. The reviewing approved in the reviewing agency may require a written submitted of those changes for review and approval at its discretion.

2. At least 7 day prior to starting only earth disturbance activities, including clearing and quabing, the EAS plan prepare, the licensis, the indiviners, perspective multiple of EAS plan prepare, the licensis, proposition interpolation of the PCSM plan, and a representative from the local conservation district to an an-axis preconstruction meeting.

3. All least 7 days preconstruction meeting.

4. All earth disturbance schildles shall proceed by System inc. shall be notified at 1-800-4242-175 for the location of existing underground utilities.

4. All earth disturbance schildles shall proceed by accordance with the sequence proided on the plan 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.

5. Areas to be filled are to be cleared, grubbed, and stripped of topsoil to remove trees, vegetation, roots and other objectionable material.

6. Topsoil required for the statistical process of the project until the EAS BMPs specified by the BMP sequence for that stope the contraction sequence. Beared sits describe, gubbing and topsoil attituding myon to commence in only stage or phase of the project until the EAS BMPs specified by the BMP sequence for that stope the stage of the project that the EAS BMPs specified by the BMP sequence for that stope the stage of the project that the EAS BMPs specified by the BMP sequence for that stope the stage of the project that the EAS BMPs specified by the BMP sequence for that stage the stag

Department.

30. Upon completion of all earth disturbance activities and permonent 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 EAS BMPs.

removal/conversion of the E&S BMPs.

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

season.

32 Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operator shall contact the local conservation district to schedule a final inspection.

33. Follure to correctly install E&S BMPs, foliure to prevent sadiment-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.



#### SITE ENGINEERING CONCEPTS, LLC P.O. BOX 1992 SOUTHEASTERN, PA 19399

P: 610-240-0450

DAVID J. SANDERS, P.E.

E:INFO@SITE-ENGINEERS.COM

HAMILTON ESTATE

204 & 228 STRAFFORD AVE **WAYNE, PA 19087** 

F: 610-240-0451

RADNOR TOWNSHIP

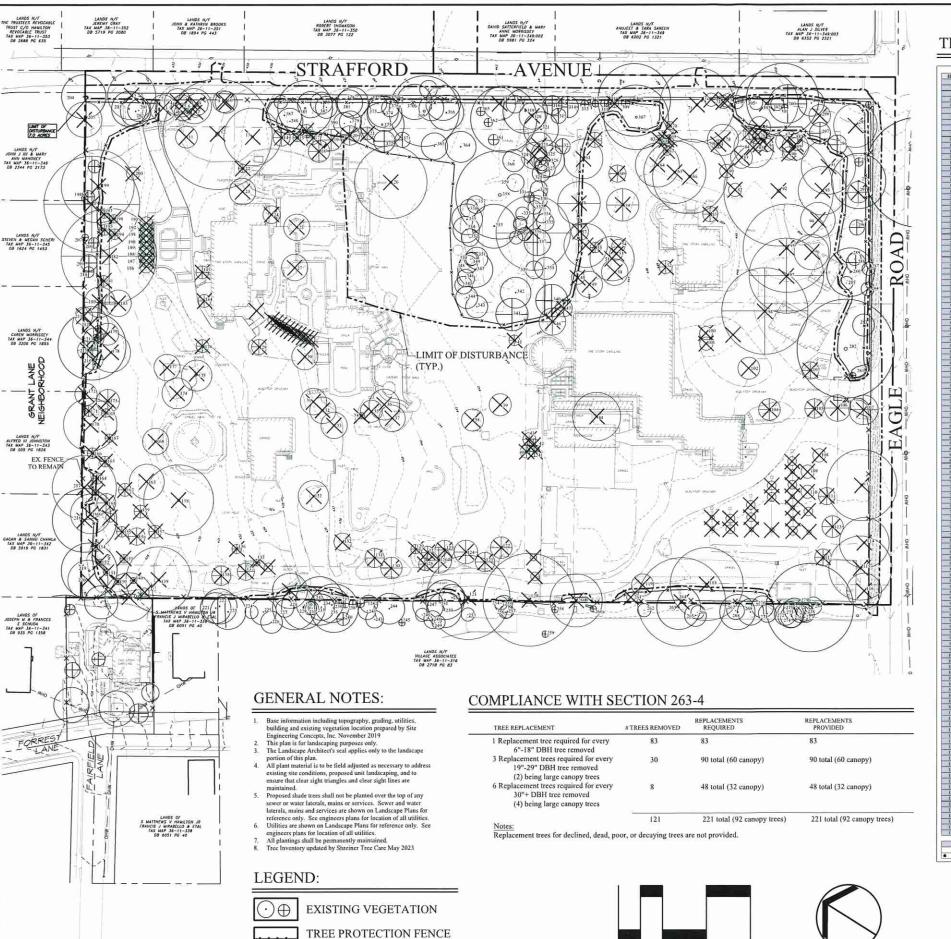
SEDIMENTATION

**EROSION AND** CONTROL DETAILS

SHEET 9 of 14

DATE: MAY 18, 2023

NO SCALE



120 FEET

NORTH

0 20 40

SCALE: 1" = 40'

(See engineer's plan for detail.)

Note: In several areas adjacent to Eagle Road and Strafford Avenue, the existing

fence may act as tree protection if approved by the S.T.C. & the Township Arborist

#### TREE INVENTORY:

	Species	Sire Di-A	Condition		132-	Species Zelkova	Stre	Condition	#D# • 262	Nucway Maple	Size	Condition toware-Voluntee
ı	Norway Maple	31.5*	Invarine Good		133	Linden	167	Good Declared	264	White Ash	18"	Decling issued Declining
	Linden Ash	19,	Dead		£15	Norway Maple Sprice	7"	Fair	0 365	Nilver Maple Norwey Maple	gr.	Invasive Vehantaer
	Norway Maple Norway Maple	14"	Ducling we get in storage		136	White Pine	14"	Doctined Fair	● 266 ● 267	Norway Maple Black Cherry	in.	Irrusive:Volumes Volumer
	Norway Maple	27.5"	Derline: Decay in trutk		134 139	Sprice White Pine	30"	Removal declinal Dead	• 268 • 369	Norway Maple	gr.	breasive Volument
	Norway Maple Norway Maple	te-	Invasive Invasive		140	Ash Dawn Radinsed	6".	Good	<b>●</b> 270	Norway Maple Norway Maple	8"	Invaries Vehattum Invaries Vehattum
	Norway Maple Norway Maple	6" N"	Isranive Incurisy		147	Black Walnut Intentionally	28° Dtank	Good	● 271 ● 272	Norway Maple Norway Maple	8°	Invaries Vehicles Invaries Vehicles
	Kowa Dogwood	10*	Good		143	Intentarially	Black		<ul> <li>≥ 273</li> </ul>	Norway Maple	N"	Investive Volunteer
	Crimum King Maple Home Chestrat	28"	Declining Structural		144	Intentionally Intertomally	Black		● 274 ● 275	Norway Maple Norway Maple	6°	Invasive Voluntary
	Hemlock.	ter	Declined insect		146	Interknally	Dhesk		◆ 276	Norway Miple	8°	Invasive/Vehattaut
	Hemlock Hemlock	6* 6*	Declined must Declined muset		147	Intentionally Intentionally	Black Black		● 277 ● 279	Norway Maple Norway Maple	7	Invasive Volunteer Invasive Vehinteer
F	Specz Hemisck	12" 12" triple	Fair Outlined insect		130	Intentionally Dawn Radwood	Black 6*	Good	● 27%a ● 27%b	Norway Maple White Ash	77 53'	Investor Volunture Oneline insurt
	Hemlock	12° shouble	Declined insert		151	Denn Redwood	67	Good	0.200	Nyumners Maple	9"	Invasive Volunture
	Sproce Hemiock	10"	Donf Donf		133	Dewn Radwood Codar	A.	Good Dead	281	Keura Degreed Sugar Maple	46.5"	Fast Fast
	Chinese Fit Japanese Maple	8° 22'	Fair Fair-foundation true		135	Norway Sprace Deuts Reduced	4.	Fair	283	Links Dogwood	(1,	Fair Fair
	Homboan	N°	Fair foundation tree		154	Willow	18"	Dead	285	Dogweed	67	Fair
	Red Maple Sugar Maple	19"	Declined Godling root Deal		158	Ash	12"	Dead	216	Linder Degreed	50"	Good
	Rad Mople Intentamelly		Ductined Girdfing root		179	Coder Black Locust	18"	Patristronal Oscinal Structual	219 219	Norway Sprace Japanese Maple	26"	Fau
	Nellie Stevens Holly	14"	Good		let.	Himslayan Pine	17"	Good	290	Norway Spring	192	Fair Good
=	Pensy Willow Kouss Dopsood	12"	Good		162 163	Dilack Pine Dogwood	P. N. D.	Declined Fair	298	Austrian Pinc Red Ork	26.5"	Decimal
	Magnetia	12"	Good		168	Douglas Fir	10*	Doctmod	293	White Pine	g <sup>n</sup>	Fair.
i	Lindou Magnelia	12"	Good Good		168	Scench Peng White Peng	10"	Osclined Declined	295	Magnolia Multi-steni Norway Magle	5", 5" & 7" 26.5"	Fair Declined Foot Campy Durback
ø	Kousa Dopsood Japanese Magie	10"	Good Good		167	Norway Sprace Charry	12	Declined Declined	296	Northway Spring	237	Good Good
Í	People Plan	95	Gend		169	Norte sy Spring	5"	Declined	299	Dogwood	6"	Peer
	Weeping Katoora Katoora	16"	Duclimid Structual Good		170	Black Walnut Codor	2m*	Good Fair	399	Norwey Maple Red Ook	35.52	Fair Good
	Nullie Stevens Helly	12"	Fair sluded carego		172	Aut	lor'	Deal	301	Magnelia Multi-stem Decreased	6"	Fax
	Nellie Stevens Holly		Fair shaded caregy Fair shaded caregy		179.	Systems Systems	17" triple	Good.	303	Red Oak	24.	Octlined .
	Neille Stevens Hally Linden	H.5°	Pair shaded categy Declared girdling root		176	Nyomeoni Holly	16" quid 12"	Good Good	304	Red Oak. Dogwood	6"	Good Fast
	White Piec	10"	Fair		172	Kenns Dogwood	10"	Good	306	Rad Oak	6.5"	Fair
	White Pine White Pine	21.5"	Fair Decline Struct motcoffer	1 🗆	176 179	Kessa Dogwesd Witchhard	10" double	Good Destined	309	Cypress Rad Osk	111	Fuit Great
f	Willow	6"	Dead Declared		1966 1366	American Holly White Pine	10"	Good Good	310	Dogwood Dogwood	7.5"	Fait Poor
	Hink Churry	17" disable	Fair Structural Co-dom		132	White Pine	43"	Fair structual	311	Dogwood	7.5"	Good
ď	Elin tree Melti-stem Hisoki Cyprox	12" & 8"	Poor Structural Fair foundation trac		190	Magnetta	(I'	Fair Fair translation	312	Dogwood Dogwood	6.5"	Fast Good
	Haskberry	6"	Volunteet		135	Helly Herrboars	30"	Fair foundation	314	When Pine When Pine	22.5"	Good Good
	Malhorry Helly	10"	Poor Smictural Good		100	Hombum	A*	Declined Structual Declined Structual	316	White Pinc	211	Good
	Sweethey Magnelia Elex	9.5	Good Past		1906	Horrhean Horrhean	is"	Declined Structual Declined Structual	317	Norway Spread Enodia	15"	Good Invasion:Volunteer
ø	White Pine	30"	Fax	1 -	1561	Hornbourn	K*	Declined Structual	119	Norway Maple	22"	Ironeve Velanteer
	Norway Sprace Coder	16° double	Pair Fair		191) 142	Horshum Horshum	K"	Declined Structual Declined Structual	121	Norway Maple	19"	Declined Investor Veluntuar
	Pathwaia Norway Sprice	22.5° 18.5°	free seine etnichted Fair		194	Hornbuses Holly	6"	Declined Structual	122 828	Norway Sprace Susseltes	15'	Feir Declinal
	Dispassed	W.	Good		INT	Molly	100	Fair	324	Senatrue	167	Dead
	Hinski Cypran Blag Mess Cypran	28.5"	Good Good		197	Helly Blue Spree	10"	Fair Fair	32n	Norway Mapla	77	Declined Intensive Volunteer
	Blue Moss Cypton Dogsood	343*	Good		Willy Willy	White Pine White Pine	10"	Declined Fair	127 326	Norway Maple Norway Maple	6"	Invasive Vehicles
	Degrand	8"	Gest		per.	Copper Bench	357	Good	129	White Pine	20.51	Good
	Dogwood Dogwood	8"	Gend Far		200	Weeping J. Maple Sycamore Maple	6"	Declined Structual Invesive Voluntum	330	Norway Maple Norway Maple	5"	Invasive Volunteer Invasive Volunteer
ø	Cléruse Chestror	11.57	Good		202	Norway Mople Norway Mople	19.5"	Invasiva: Volunteer	332	Black Clurry	(2)	Volunteer Invasive Volunteer
í	Dogwood Dogwood	6"	Fatt None		304	Nerway Maple	31.55	Invaries Voluntum Invaries Voluntum	334	Sycators Maple	No.	Invocese Vidanteer
Í	Degreed Hickory	10"	Poor Voluntury		300	Sycasione Maple White Pine	24"	Removal Docay Fair	335	Nerway Maple White Pine	33.	Invasive Voluntum Dead
	Dogwood	8"	Good		207	American Bully	21.5*	Fair Good	337	White Pine	29.5"	Good Volunture
	Dogwood Japanese Maple	6" 22"	Fsu		201	White Pine White Pine	16"	Good	139	Norwey Maple Sugar Maple	9"	Volunteer
	Hemlock Black Cherry	6"	Declined innect		211	White Pine Benelder	23'	Declining Declined	340	White Pine White Pine	26"	Fuit Dead
ı	Blue Sprace	14"	Dend		212	Subolar-tree	10"	Decline feating	142	Paulounia Block	14"	Invasive/Structoal
	Paulownia Degwood	10"	Invaries Good		214	Crshapple White Pine	32"	Dead-declining Gord	344	Birch	to*	Fair busin planting Fair busin glanting
	Japanese Maple Diagrand	16"	Good Good		214	White Pine (Heaved): Hamlock	21"	Declined girdling root Declined must	345	Birch Dirch	N*.	Fair burn planting Fur burn planting
	Dogsood	6*	Good		217	Ash true	29"	Decline impet	347	Paulowine.	16"	Drivership
	Dogwood Dogwood		Good Dead		219	Ash true Black Walnut	26,	Ocad fallen Good	345 349	Hirch Direk	R.,	Fair burn planting Fair burn planting
ı	Sweet Cherry Black Cherry	32°	Volunteer Volunteer	100	721	Ash true Norway Maple	137	Dead fallen Invasion Volunteer	150	Hirch Directs	10"	Fair bern planting Fair bern planting
Í	Ash		Desd		222	Norscay Maple	13"	Incusive Vehiclient	152	Blech	1"	Fun berm planting
	Sugar Maple Horse Clustost	45.5"	Good PoseStractural		223	Ash true Nurvey Maple	16"	Desting insect Invasive Volunties	353	Cyprosi Birch	20°	Fair Sarm planting
	Chrone Chestrat Walnut	19"	Good Dead		225	Ash tree Charry	20°	Desline insect Good	355 356	Birch	14"	Fair born planting Fair born planting
Í	Red Oil.	DC.	Declined Diseased		227	Norway Maple	14"	besserve/Volunteur	197	Birch	10"	Fair burm planting
	Larch Cypress	41"	Duclimat root Fair		229 229	Ash tree Ash tree	16"	Decline innect Decline insect	138	Piar Oak Chinese Chestrut	13"	Pair Structural Pair
	Intentionally.	Dlank.			130	Norway Mugle	14"	branic Velutter	160	Sycamore	No.	Volunteer
	William	67	Declined structual Declined structual		232	Norway Maple Norway Maple	N*	Invaries Voluntest	162	Norway Sprace Norway Sprace	K"	Good Good
F	Cornia Mas. Cypous	24.5"	Good Fair		211	Ash tree	20"	Decline innect	363	White Sprice Japanese Maple	10"	Declinad
	Spence	39"	Dead		235	Nerway Maple	16"	Invasion Voluntum	365	Japanesie Maple	121	Fair
j	Sprace Norway Sprace	24"	Doub Good		23h 237	Lipted Lipted	9"	Decline structual Decline structual	367	Norway Maple Norway Maple	21.50	Declining Campy
f	Norway Sprace Fruit 12 train	27*	Good Declined structual			Leted Leted	r r	Decline structual Decline structual	369	Black Charry Black Charry	320	Ductional Good
	Fruit 12 trees	6"	Declined structural		246	Leptand	yr.	Declinestructual	\$70a	Norway Maple	30.5"	Fair
	Fruit 12 tenns Arburyittur	16"	Declared structual Base Doory			Norway Maple Malbarry	10,	Invesive Volunteer	3766	Norway Maple Hamlock	14"	Invaries Volunteer Decline insect
Í	Pin Oil. Himlayer Fire		Dead Good			Dougles Fit Black welrot	10"	Declined discused	372	Handock	16"	Decline most bryaster Volunteer
	Piu Oak	23"	Falr		245	Norway Sprace	K*	Decimed	374	Norway Maple Norway Maple	17.3"	Invaries Volunteet
í	Pin Ork Pin Ork	22"	Declined structual Declined structual		347	Sycamore Maple Ash tree	21"	Decline insect	375 326a	Norway Maple Norway Maple	7.5"	Invasive Volunteer Invasive Volunteer
	Arbonites	13°	Hoe Decry		548 249	Sycamore Maple	9"	Investor Volument Investor Volument	1760s 377	Sycanomy Maple	11"	Invarias Vehictor
	William Limko	12"	Fair Fair		250	Sycarmer Maple Nerway Maple	8"	Investor Velenteer	178	Norway Maple Norway Maple	36"	Introduce Volunteer Investige Volunteer
	Ash Maple		Dend Declined structual		251	Norway Maple Norway Maple	11.5°	Invasive:Volunteer Invasive:Volunteer	379 380	Norway Maple Norway Maple	10"	Intrasive Volunteer Intrasive Volunteer
	Sprior	257	Gend		253	Sycamore Maple	TO'	Invasive Volunteet	333	Norway Maple	NT.	Incuring Vehicles
	Sprace White Pine	257	Good Good		255	Sycamore Maple Sycamore Maple	10"	Incuring Voluntum	312	Norway Maple Norway Maple		Invesive Vehatteur Invesive Vehatteur
	Hemlock White Pinc	117"	Declined insect Good		25%	Sycamore Maple Sycamore Maple	10"	Inventor Volunteer Intuite Volunteer	354 385	Norway Maple Black Clurry	16"	Invasing Voluntage Voluntage
Ξ	Helly	13"	Fair		248	Norway Spence	17"	Fait	156	Netway Maple	14"	Invasive Volunteet
E	Holly Serbian Sprace	17.	Fair Declined		259 166ba	Norway Spence Norway Sprear	10"	Fair.	387	Norway Maple Norway Maple	13"	Invarive Volunteer Invarive Volunteer
	Syracu	20"	Good Declined inject		NAME:	Ashme	24"	Destinement				
	Hemlock				-	Dogwood	la.	Destined	J.			

**GLACKIN THOMAS** PANZAK

LAND PLANNING LANDSCAPE ARCHITECTURE

Suite 300 41 Leopard Road Paoli, Pennsylvania 19301 610.408.9011 Fax: 610.408.9477 E-mail: plans@glackinplan.com

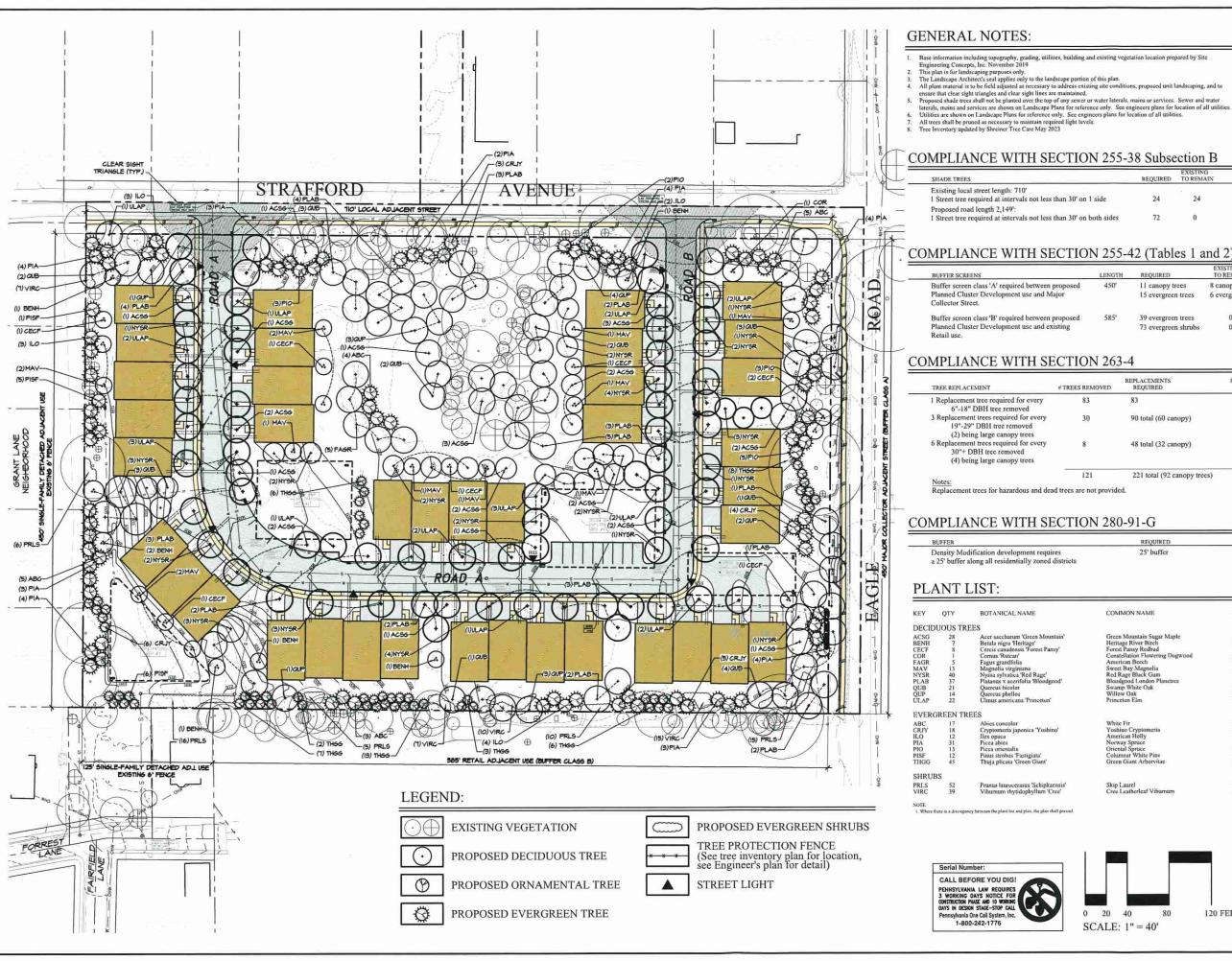


Hamilton Estate
228 STRAFFORD AVE. & 18 FORREST LANE
TOWNSHIP, DELAWARE COUNTY, PENNSYLVANIA TREE INVENTORY 208 & 2 RADNOR

PROJECT #: 19-033 DATE: 05/18/23 (cg) REV.:

SHEET:

EX-1



### GENERAL NOTES:

#### COMPLIANCE WITH SECTION 255-38 Subsection B

SHADE TREES		REQUIRED	EXISTING TO REMAIN	PROPOSED	
Existing local street leng	th: 710' ntervals not less than 30' on 1 side	24	24	0	
Proposed road length 2,1		72	0	72	

#### COMPLIANCE WITH SECTION 255-42 (Tables 1 and 2)

BUFFER SCREENS	LENGTH	REQUIRED	EXISTING TO REMAIN	PROVIDED
Buffer screen class 'A' required between proposed Planned Cluster Development use and Major Collector Street.	450'	11 canopy trees 15 evergreen trees	8 canopy trees 6 evergreen trees	3 canopy trees 9 evergreen trees
Buffer screen class 'B' required between proposed Planned Cluster Development use and existing Retail use.	585'	39 evergreen trees 73 evergreen shrubs	0	39 evergreen trees 91 evergreen shrubs

#### **COMPLIANCE WITH SECTION 263-4**

TREE REPLACEMENT	# TREES REMOVED	REPLACEMENTS REQUIRED	REPLACEMENTS PROVIDED
1 Replacement tree required for every 6"-18" DBH tree removed	8.3	83	83
3 Replacement trees required for every 19"-29" DBH tree removed (2) being large canopy trees	30	90 total (60 canopy)	90 total (60 canopy)
6 Replacement trees required for every 30"+ DBH tree removed (4) being large canopy trees	8	48 total (32 canopy)	48 total (32 canopy)
Notes:	121	221 total (92 canopy trees)	221 total (92 canopy trees)

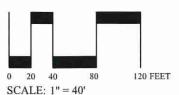
#### COMPLIANCE WITH SECTION 280-91-G

BUFFER	REQUIRED	PROVIDED
Density Modification development requires	25' buffer	25' buffer

#### PLANT LIST:

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
DECID	UOUS TR	EES			
ACSG	28	Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	2"-2.5" cal.	B&B
BENH	7	Betula nigra 'Heritage'	Heritage River Birch	2"-2.5" cal,	B&B
CECF	8	Cercis canadensis 'Forest Pansy'	Forest Pansy Redbud	2"-2.5" cal.	B&B
COR	1	Cornus 'Rutcan'	Constellation Flowering Dogwood	2"-2.5" cal.	B&B
FAGR	5	Fagus grandfolia	American Beech	2"-2.5" cal.	B&B
MAV	5 13	Magnolia virginiana	Sweet Bay Magnolia	2"-2.5" cal.	B&B
NYSR	40	Nyssa sylvatica 'Red Rage'	Red Rage Black Gum	2"-2.5" cal.	B&B
PLAB	37	Platanus x acerifolia 'Bloodgood'	Bloodgood London Planetree	2"-2.5" cal.	B&B
QUB	21	Ouercus bicolor	Swamp White Oak	2"-2.5" cal.	B&B
QUP	14	Quercus phellos	Willow Oak	2"-2.5" cal.	B&B
ULAP	22	Ulmus americana 'Princeton'	Princeton Elm	2"-2.5" cal.	B&B
EVERG	REEN TR	REES			
ABC	17	Ahies concolor	White Fir	8'-10' ht.	B&B
CRJY	18	Cryptomeria japonica 'Yoshino'	Yoshino Cryptomeria	8'-10' ht.	B&B
ILO	12	Ilex opaca	American Holly	8'-10' ht.	B&B
PIA	31	Picea abies	Norway Spruce	8'-10' ht.	B&B
PIO	13	Picea orientalis	Oriental Spruce	8'-10' ht.	B&B
PISF	12	Pinus strobus 'Fastigiata'	Columnar White Pine	8'-10' ht.	B&B
THGG	45	Thuja plicata 'Green Giant'	Green Giant Arborvitae	8'-10' ht.	B&B
SHRUE	s				
PRLS	52	Prunus laurocerasus 'Schipkaensis'	Skip Laurel	24"-30" ht.	Cont.
		Viburnum rhytidophyllum 'Cree'	Cree Leatherleaf Viburnum	24"-30" ht.	Cont.







GLACKIN **THOMAS** PANZAK LAND PLANNING LANDSCAPE ARCHITECTURE

Paoli, Pennsylvania 1936 610.408.90 Fax: 610.408.94 il: plans@glackinplan.co



Estate Hamilton 208 & Z

PROJECT #: 19-033 DATE: 05/18/23 (mc) REV .:

LP-1

SHEET:

NOTES:

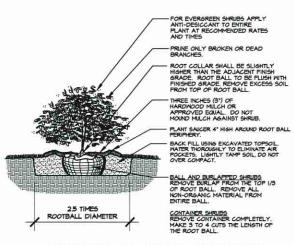
1. Trees with poor quality root balls or root balls that have been cracked or damaged shall be rejected.

2. Trees with central leader bruken or dead shall be rejected.

3. Trees with cont display the typical characteristics for their species shall be rejected.

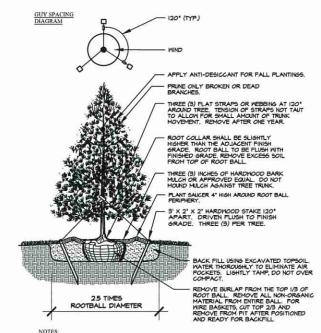
4. Flood planting pit with water twice within 24 bours of planting.

# DECIDUOUS TREE WITH STAKES DETAIL



NOTE: FLOOD PLANTING PIT WITH WATER TWICE WITHIN 24 HOURS OF PLANTING.

SHRUB DETAIL 3 NTS

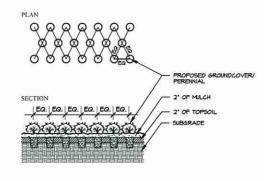


NOTES:

1. Trees with poor quality root balls or root balls that have been cracked or damaged shall be rejected.

Trees with retail leader broken or dead shall be rejected.
 Trees with central leader broken or dead shall be rejected.
 Trees that do not display the typical characteristics for their species shall be rejected.
 The owner shall be responsible for contacting the contractor, who shall right and secure any tree that leans out

#### EVERGREEN TREE WITH STAKES DETAIL NTS



NOTES:

1. Plants must be planted in bedding mix or topsoil not mulch.

2. See planting list for groundcover species, size, and spacing dimension

PLANTING DETAIL

#### PLANTING NOTES:

- 1. The contractor shall furnish and install all plants shown on the drawings, as specified, and in quantities indicated on the plant list.
  2. All plants shall be nursery grown and freshly dug.
  3. All plants shall be nursery grown and freshly dug.
  4. All plants shall be hardy under climatic conditions similar to those in the locality of the project.
  5. Fall Digging Hazard. Asy species listed below, if included on the plant list, must not be dug in the fall (October through December) because of risks to the tree's survival. Special exceptions may be ganted if the owner is notified in writing and an extended warranty on these plants is agreed upon prior to digging. The following varieties should not be dug in fall: Betula, Carpinus, Cellis, Cercifiphyllum, Craategue, Cryptomeria, Fagus, Halesia, Itee, tree form varieties, Liquidiambar, Liriodendron, Nyssa, Ostrya, Prunas, Pyrus, Quercus (except Quercus palustris), Salis weeping varieties, and Tilia tournetnas. Digging for Milus and Zelkova varieties should be avoided in fall only when in leaf.
  6. All plants shall be typical of their species or variety and shall have a normal habit or growth. They shall be contiled by appropriate State and Federal authorities to be free of disease and insect pests, eggs or larvae. They shall have healthy, well-developed root systems.

  Plants that do not display pytical elarnateristics for their species shall be rejected.
  8. Substitutions: When plants of a specified kind or size are not available within a reasonable distance, substitutions are able to made upon written request by contractor, if approved by the owner and/or municipal authoring.

  Measurement: Dimensions of frees and shoths shall confirm to The American Standard for three or discussions and the contractor, if approved by the owner and/or municipal authoring.

  Measurement: Dimensions of frees and shoths shall confirm to The American Standard for the results.

- substitutions may be made upon Written request by the containing any one of the amount No plants shall be loose in the container
- Trees with central leader broken or dead shall be rejected

- No plants shall be loose in the container.

  12. Trees with central leader broken or dead shall be rejected.

  13. Plants with broken root balls or excessive damage to the crown shall be replaced prior to planting.

  14. Plants with broken root balls or excessive damage to the crown shall be rejected.

  15. Root balls of all plants shall be adequately protected at all times from sun and drying winds or frost of all soil or drainage conditions which the contractor shall notify the project representative in writing of all soil or drainage conditions which the contractor considers detrimental to the growth of plants. The contractor shall soil or drainage conditions which the contractor considers detrimental to the growth of plants. The contractor shall state the conditions and submit as proposal for correcting the conditions, including any change in cost, for review and acceptance by the project representative.

  18. All planting shall be at the locations indicated on the drawings. The contractor shall be responsible for planting at the correct grades, alignment, and to the indicated layout of the planting beds.

  19. Layout of planting: The contractor shall all out with identifiable stakes the location of all planting beds as indicated on drawing. The layout of planting that planting beds as indicated on the wind. The layout of planting the contractor shall be on the planting beds.

  20. Miner adjustments to plant locations may be necessary due to field conditions and final grading. The contractor shall notify the owner: if major adjustments are required.

  21. Install plant wherein all enders the exalphished and prior to to planting of lawns unless otherwise acceptable to the owner.

  22. Do not install plants when ambient temperatures may drop below 35°F or above 90°F.

  23. Do not install plants when mind velocity exceeds 30 mph.

  24. Planting shall be done within the following dates treets, strubs, groundcover, and perennials shall

- Planting shall be done within the following dates trees, shrubs, groundcover, and perennials shall be planted September 1 through December 1, or April 15 to May 31, and only when local climatic and sail conditions favor satisfactory planting operations. Planting may be done beyond these limits and sail conditions favor satisfactory planting operations. Planting may be done beyond these limits only if requested in writing and approved by the Landscape Architect. Planting operations to commence only when preceding work within the area has been completed. Proceed with and complete planting as rapidly as portions of the site become available, working within the control of the control of the control of the site become available, working within the control of the control of the control of the site become available, working within the control of th
- within seasonal limitations.

  26 Planting soil shall be excavated native soil from the planting pit. Planting soil shall be thoroughly mixed, with all tooks, clods and roots removed.

  27. All trees shall be staked and guyed according to accepted industry practice, and as noted on the about the shall be staked and guyed according to accepted industry practice, and as noted on the
- planting details.

  28. Each tree and shrub shall be pruned in accordance with The American Nursery and Landscape
- 28. Each tree and shrub shall be pruned in accordance with The American Nutsery and Landscape Association Standards to preserve the natural character of the plant. All dead wood or suckers and all broken or badly bruised branches shall be removed.
  Q. Mulch: Immediately after planting operations are completed, all trees and shrub planting pits shall be covered with a 3" (three inch layer of double shredded hardwood bark mulch, or other material approved by the owner or the owner's representative. A grammlar pre-remergent weed control shall be spread prior to mulching. The limit of this mulch for deciduous trees and single evergreen trees shall be the area of the pit. For shrub and perennial beds and for evergreen tree clusters, a continuous, mulched bed shall be created.
  3. Trees in leaf, including evergreens, when planted shall be treated with anti-decicant such as WitP-Pruf® it planted during the months of June through September, November, and December.
  3. Weed control: All planting areas shall be free from weeds prior to the beginning of planting operation. Contact herbicide sprays should only be used as required and all manufacturer's specifications followed.

- operation. Contact herbicide sprays should only be used as required and all manufacturer's specifications followed.

  32. Guarantee: All plant material shall be guaranteed by the contractor for twelve (12) months from the date of installation. The owner shall be responsible for maintenance unless otherwise agreed with contractor. It shall be the contractor's responsibility to monitor the project during the guarantee and notity the owner it problems develop with the plant material. Any material that is 25 % dead or more shall be considered dead and must be replaced at no charge. A tree shall be considered dead when the main leader has died back, or there is 25% of the crown dead.

  33. All debrits resulting from landscape contracting operations shall be cleaned up and removed from the site on a weekly basis.

  34. Watering: Landscape contractor is responsible for watering sufficiently at the time of planting and until the job is completed, accepted and turned over to the owner.

Serial Number:

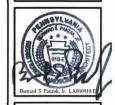
CALL REFORE YOU DIG! PENNSYLVANIA LAW REQUIRES CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE-STOP CALL Pennsylvania One Call System, Inc.

1-800-242-1776

**GLACKIN THOMAS** PANZAK LAND PLANNING LANDSCAPE ARCHITECTURE

Gluckin Thomas Panzak, Inc

Paoli Executive Gree Paoli Executive Green 1 Suite 300 41 Leopard Road Paoli, Pennsylvania 19301 610,408,9011 Fax: 610.408.947 E-mail: plans@glackinplan.



Estate
3. & 18 FORREST LANE
COUNTY, PENNSYLVANIA amilton 228 STRAFFORD AVE. TOWNSHIP, DELAWARE

DETAILS

LANDSCAPE

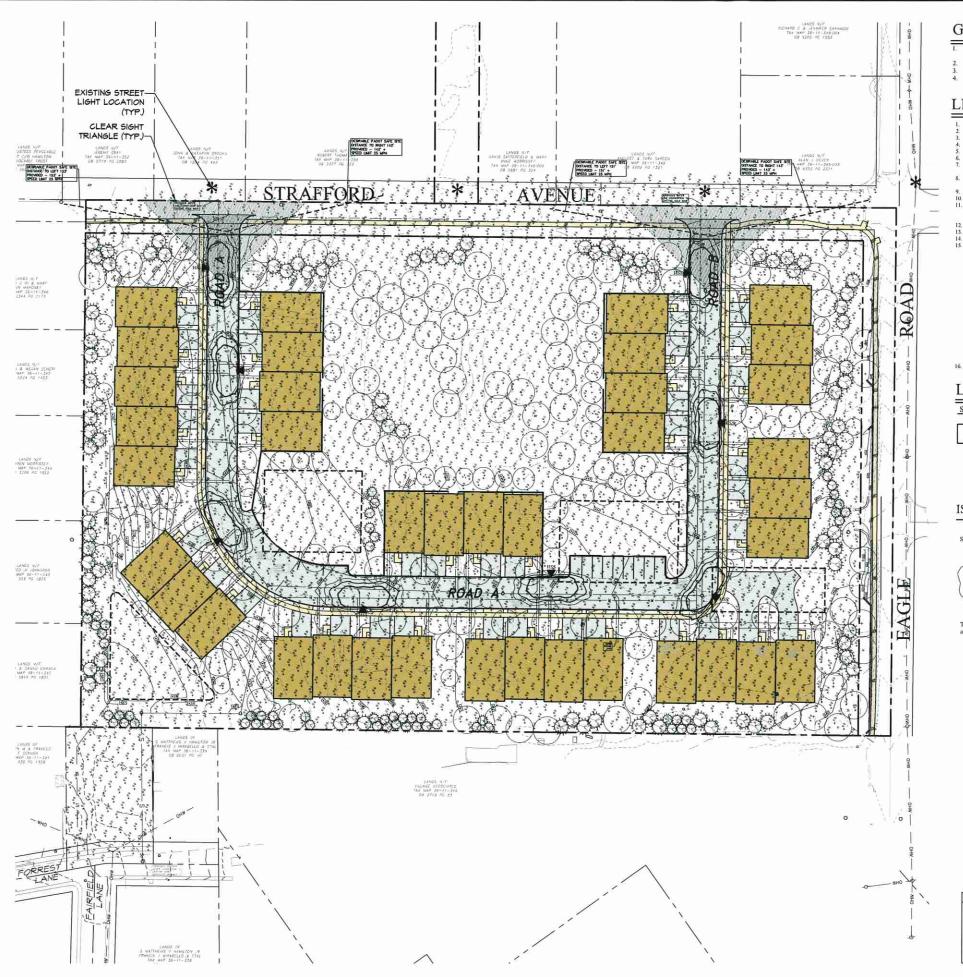
H

PROJECT #: 19-033 DATE: 05/18/23 (mc) REV .:

208 & RADNOR T

SHEET:

LP-2



#### **GENERAL NOTES:**

- Base information including topography, grading, utilities, building and existing vegetation location prepared by Site Engineering Concepts, Inc. November 2019.
   This plan is for lighting purposes only.
   The Landscape Architect's seal applies only to the lighting portion of this plan.
   Tree Inventory updated by Shreiner Tree Care May 2023.

#### LIGHTING NOTES:

- 1. Lighting to be installed to meet all appropriate national and local codes.
  2. All light fixtures to be approved by Owner or Owner's representative.
  3. All circuits to be installed by a licensed electrician.
  4. All cache to be run in conduit unless approved in writing by the owner.
  5. Contractor to provide sufficient nightime adjustment to all lighting to satisfy Township requirements and Owner or Owner's representative. Fixture on/off control by circuit.
  6. All lighting to be installed according to manufactures recommendations.
  7. All electrical conduits stalls be set 40 pice and all bends shall be "sweep" type for pulling wire. Conduit to extend beyond edge of hardscape element by 12" min. Conduit to be temporarily eapped and location staked prior to backfilling.
  8. While extending conduits that be set 40 pice and all bends shall be "sweep" type for pulling wire. Conduit to extend beyond edge of hardscape element by 12" min. Conduit to be temporarily eapped and location staked prior to backfilling.
  8. While extending conduits under existing structures the contractor shall be responsible for damage to existing structures such as, but not limited to, paving, irrigation, pool piping, massonry pices and underground darange pipe etc.
  9. All lighting fixtures to be controlled by photon-cells
  10. All final light locations to be approved by Owner or Owner's representative.
  11. All final light locations to be field adjusted, "simer" as necessary to as to avoid shirning of light into windows and doors.
  Contractor to arrange a pre-construction meeting with the owner and owners representatives including massons, and other individuals familiar with any underground facilities.
  A-Foulti drawing should be requested of all such facilities.
  12. Contractor shall spray paint trench layout prior to commencement. Owner or Owner's representative shall approve layout.
  13. Electrical engineer to provide just the facilities.
  14. Project electrical engineer to provide just habitill underground electric runs.
  15. In the event that th

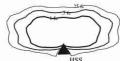
- B. Contractor's written certification that the proposed substitution(s) conforms to all requirements of the contract documents in every respect and is app applications indicated in the documents
- C. Contractor's written statement indicating the effect of the substitution(s) on the construction schedule compared to the schedule with the originally specified fixture(s)
- D. Contractor-net unit price for the originally specified fixture(s) and for the proposed substitute fixture(s).
- E. One sample of the proposed substitution fixture(s) with specified lamps and cord and plug connection for 277 volt operation
- Contractor's written certification that any alterations that may result from the proposed lighting fixture substitution(s) will be designed and constructed at the contractor's written certification that any alterations that may result from the proposed lighting fixture substitution(s) will be designed and constructed at the contractor's written certification that any alterations that may result from the proposed lighting fixture substitution(s) will be designed and constructed at the contractor's written certification that any alterations that may result from the proposed lighting fixture substitution(s) will be designed and constructed at the contractor's written certification that any alterations that may result from the proposed lighting fixture substitution(s) will be designed and constructed at the contractor's written certification that any alterations that may result from the proposed lighting fixture substitution (s) will be designed and constructed at the contractor's written certification (s) will be designed at the contractor of the contractor of
- H. Contractor's written waiver of rights to additional payment and/or time that may become necessary should the pre-equivalent to the originally specified fixture(s).
- 16. Post-approval alterations to lighting plans or intended substitutions for approved lighting equipment shall be submitted to the Township for review and approval

#### LIGHTING LEGEND:

SYM.	LIGHT TYPE	QIY.	MFG.	MODEL#	REMARKS
<b>A</b>	STREET LIGHT	8	AAL	PROV2-36L-325-3K7-3-BL-HS	AAL Providence Medium, LED, Type III Optics, 3K color temperature, photocell control by circuit, with house side shield, 14' height, mounted on 4" AAL DOLE MODEL TIME Street and Date Fische Duck

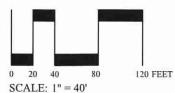
#### ISO FOOTCANDLE DIAGRAM:

SITE LIGHT:



Typical footcandle distribution values are indicated in diagram. The same values, 0.25 fc, 0.50 fc and 1.00 fc, are indicated on all proposed light fixture

CALL BEFORE YOU DIG! CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE-STOP CALL Pennsylvania One Call System, Inc. 1-800-242-1776 0 20 40





**THOMAS** PANZAK LAND PLANNING LANDSCAPE ARCHITECTURE

GLACKIN

Paoli Executive Green I Suite 300 41 Leopard Road Paoli, Pennsylvania 19301 610.408.9011 Fax: 610.408.9477 E-mail: plans@glackinplan.com



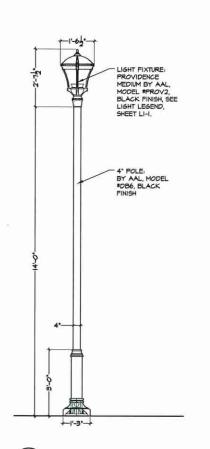
Estate
3. & 18 FORREST LANE
E COUNTY, PENNSYLVANIA Hamilton & 228 STRAFFORD AVE. & R TOWNSHIP, DELAWARE C

PROJECT#: 19-033 DATE: 05/18/23 (mc

208 & S

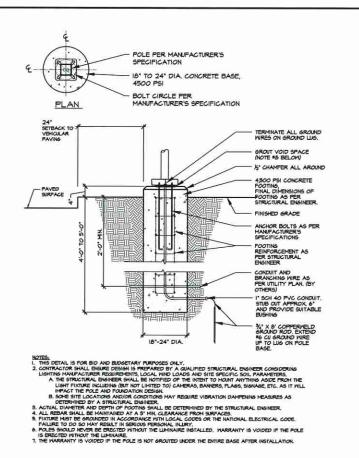
SHEET:

LI-13 of 14

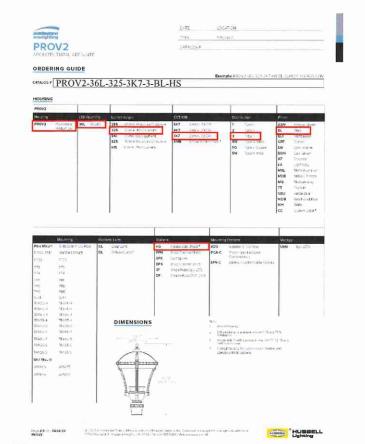


STREET LIGHT DETAIL

Scale: 1/2"=1'-0"



TYPICAL LIGHT POLE FOOTING DETAIL
Scale: 1/2"=1'-0"



3 STREET LIGHT CUT SHEET



Glackin Thomas Panzak, Inc

Pauli Executive Green 1 Suite 300 41 Leopard Road Pauli, Pennsylvania 19301 610-408.9011 Fax: 610.408.9477 E-mail: plani@glackinplan.com



Hamilton Estate
228 STRAFFORD AVE. & 18 FORREST LANE
TOWNSHIP, DELAWARE COUNTY, PENNSYLVANIA 208 & S RADNOR T

PROJECT#: 19-033 DATE: 05/18/23 (mc) REV.:

SHEET:

LI-2

Serial Number: CALL BEFORE YOU DIG! PENNSTVANIA LAW REQUIRES
3 WORKING DAYS NOTICE FOR
CONSTRUCTION PRASE AND 10 WORKING
DAYS IN DESKON STAGE-STOP CALL
Pennsylvania One Call System, Inc.
1-800-242-1776