OS-2 (11-08)

pennsylvania
DEPARTMENT OF TRANSPORTATION
www.dot.state.pa.us

July 30, 2024

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
400 North Street
Harrisburg, PA 17120

Re: Franklin County
Shippensburg Borough & Southampton Township
SR 0011, Section 091 (W. King Street)
DOT # 592122 M
PUC No.: A-2022-3031613
ECMS No.: 19304

Dear Secretary Chiavetta:

In accordance with ordering paragraph number three (3) of the PUC Secretarial Letter at Docket No. A-2022-3031613 dated May 28, 2024, please find attached for your approval an electronic copy of the final revised Erosion and Sediment Pollution Plan Plan consisting of sheets 1 through 15 for a total of 15 sheets and a revised Post Construction Stormwater Management Plan consisting of sheets 1 through 8 for a total of 8 sheets.

The Department of Transportation hereby avers that a complete set of the aforesaid final Drawings for Construction plans are being sent to the following parties of record for examination in accordance with the attached Certificate of Service.

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Akron, OH 44313
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We respectfully request the approval of these plans and the subsequent issuance of a PUC Order. Should you have any questions or concerns, please feel free to contact Ahmed Lasloudji at (717) 787 - 4732.

Sincerely,

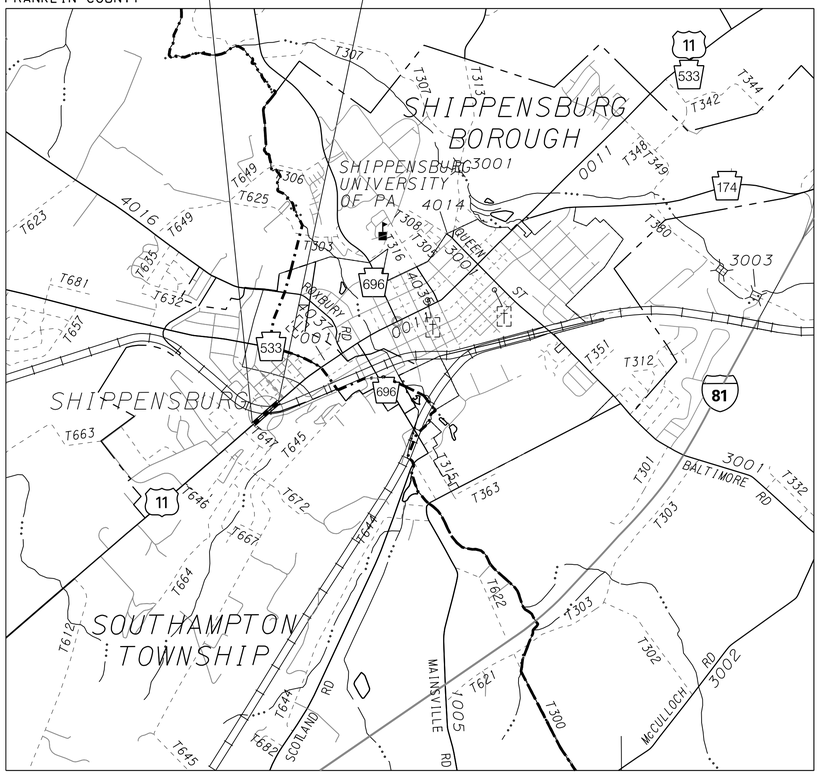
Ahmed Lasloudji
Grade Crossing Administrator
Engineering District 8-0
Department of Transportation

Attachments

cc: Parties of Record
Mark Chappell, P.E., Chief, Right-of-Way and Utilities Section, 7th Floor, CKB
Karen Cummings, Office of Chief Counsel, 9th Floor, CKB
William Sinick, P.E., Supervisor, Rail Safety Engineering Section, PUC, 3rd Floor, CKB

LIMIT OF WORK
STA 591+50.00
SEG 0540 OFFSET 3134
SR 0011 SEC 095
SOUTHAMPTON TOWNSHIP
SHIPPENSBURG BOROUGH
FRANKLIN COUNTY

LIMIT OF WORK
STA 609+00.00
SEG 0560 OFFSET 0111
SR 0011 SEC 095
SHIPPENSBURG BOROUGH
FRANKLIN COUNTY



LOCATION MAP

0 0.5 1
SCALE IN MILES

LEGEND

- PROJECT
- STATE HIGHWAY
- TOWNSHIP ROAD
- MUNICIPAL BOUNDARY
- COUNTY LINE
- STREAM
- RAILROAD

SHEET INDEX

CALL BEFORE YOU DIG

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN PHASE - STOP CALL 1-800-242-1776
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PA ONE CALL SYSTEM, INC.

SOUTHAMPTON TOWNSHIP
SERIAL NO. 2018-166-2878

SHIPPENSBURG BOROUGH
SERIAL NO. 2018-166-2878

GENERAL NOTES

IN ACCORDANCE WITH THE CURRENT POLICIES AND PRACTICES IN THE COMMONWEALTH OF PENNSYLVANIA TO CONTROL EROSION, IT IS REQUIRED THAT THE CONTRACTOR FOR THIS PROJECT CONFORM WITH THE FOLLOWING GUIDELINES AS THEY ARE APPLICABLE AND IN ACCORDANCE WITH THE INSTRUCTIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE INSPECTOR IN CHARGE:

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 PADEP) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. PADEP AND THE FRANKLIN COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. PADEP MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DIRECTION.

2. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES (INCLUDING CLEARING AND GRUBBING) THE OWNER AND/OR OPERATOR SHALL INVITE THE LANDOWNER, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARER, A REPRESENTATIVE FROM THE FRANKLIN COUNTY CONSERVATION DISTRICT, AND A REPRESENTATIVE FROM THE PADEP TO AN ON-SITE PRE-CONSTRUCTION MEETING.

3. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

4. PROCEED WITH ALL EARTH DISTURBANCE ACTIVITIES IN ACCORDANCE WITH THE BMP SEQUENCE. DEVIATION FROM THE SEQUENCE REQUIRES WRITTEN APPROVAL FROM THE CCD/PA DEP PRIOR TO IMPLEMENTATION, COORDINATE ANY/ALL PROPOSED CHANGES TO THE APPROVED PLAN WITH THE PENNDOT REPRESENTATIVE. UPON REVIEW AND CONCURRENCE WITH THE PENNDOT REPRESENTATIVE, COMMUNICATE CHANGES AS FOLLOWS:

   i. DISCUSS THE SEQUENCE DEVIATION WITH THE CCD/PA DEP AND OBTAIN VERBAL APPROVAL

   ii. MODIFY THE ESPC PLAN (RED-LINE THE DRAWING) AND GET A SIGNATURE/INITIALS FROM THE CCD/PA DEP AT THE SITE OR GET ACKNOWLEDGEMENT THROUGH AN ELECTRONIC PERMITTING SYSTEM. RETAIN THE EARTH DISTURBANCE INSPECTION REPORT ACKNOWLEDGING THE FIELD CHANGE.

   iii. IF NEEDED, FAX OR EMAIL THE MODIFIED SEQUENCE TO THE CCD/PA DEP.

5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES FELLED BY OTHERS, 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 CONSTRUCTION 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 BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.

8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH 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 CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY FRANKLIN COUNTY CONSERVATION DISTRICT AND PADEP. ALSO, IMMEDIATELY
   NOTIFY THE DEPARTMENT IN ACCORDANCE WITH PUBLICATION 408, SPECIFICATIONS, SECTION 110.02

10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1, AND 287.1 ET SEQ. DO NOT BURN, BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIALS, WASTES, OR UNUSED BUILDING MATERIALS AT THE SITE.

11. OBTAIN E&SPC PLAN APPROVAL FOR ALL OFF-SITE WASTE AND BORROW AREAS FROM THE FRANKLIN COUNTY CONSERVATION DISTRICT AND/OR PADEP, AND FULLY IMPLEMENT THE PLAN PRIOR TO ACTIVATING THE SITE.

12. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS MATERIAL AND MAKE SURE THE SITE(S) RECEIVING THE EXCESS HAS AN APPROVED AND FULLY IMPLEMENTED EROSION AND SEDIMENT CONTROL PLAN THAT MEETS THE CONDITIONS OF CHAPTER 102 AND/OR OTHER STATE OR FEDERAL REGULATIONS.

13. 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 SHALL BE REQUIRED.

14. 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 FRANKLIN COUNTY CONSERVATION DISTRICT & PADEP OFFICIALS AT THE TIME OF INSPECTION.

15. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF THE 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.

16. SPRINKLE OR APPLY DUST SUPPRESSOR OR KEEP DUST WITHIN TOLERABLE LIMITS AT THE SITE.

17. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.

18. 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 THE LOCAL REQUIREMENTS OR CODES.

19. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS.

20. 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.

21. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

22. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

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

24. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.

25. 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 (ONE) YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 (ONE) YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.

26. FINAL STABILIZATION IS DEFINED AS 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.

27. 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 PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

28. UPON APPROVAL FROM THE CCD/PA DEP, REMOVE TEMPORARY ESPC BMPS AND CONVERT DESIGNATED SEDIMENT TRAPS/BASINS TO THEIR PERMANENT STORMWATER CONFIGURATIONS. IMMEDIATELY STABLIZE AREAS DISTURBED DURING REMOVAL OR CONVERSION OF BMPS. AVOID DOING REMOVAL AND CONVERSION DURING THE NON-GERMINATING SEASON.

29. 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.

30. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE ACTION TO RESOLVE FAILURE OF E&SPC BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION 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.

31. EROSION CONTROL MULCH BLANKET SHALL BE INSTALLED ON ALL SLOPES, 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLANS AND/OR DETAIL SHEET.

32. ALL REFERENCES TO EROSION AND SEDIMENT POLLUTION CONTROL BEST MANAGEMENT PRACTICES (BMPS) WILL ASSUME CONSTRUCTION TO BE IN ACCORDANCE WITH PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION, PUB 72M, THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S EROSION AND SEDIMENT POLLUTION CONTROL MANUAL, MANUFACTURER'S RECOMMENDATIONS, AND THESE PLANS.

33. HANDLE CONCRETE WASH WATER IN THE MANNER DESCRIBED IN THIS ESPC PLAN. IN NO CASE SHALL IT BE ALLOWED TO ENTER SURFACE WATERS OR GROUNDWATER SYSTEMS.

(GENERAL NOTES CONTINUED ON NEXT SHEET)

PROJECT WORK AREA

TOTAL PROJECT AREA/AREA OF DISTURBANCE = 197,570 SF (4.53 ACRES)

AREA OF DISTURBANCE CLASSIFIED AS ROADWAY MAINTENANCE = 97,139 SF (2.23 ACRES)

AREA OF DISTURBANCE FOR DETERMINING NPDES PERMIT REQUIREMENT = 100,431 SF (2.30 ACRES)

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	1 OF 15
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

PLANS PREPARED BY
STV Incorporated
CONSULTING ENGINEERS
HARRISBURG, PA

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
ENGINEER
PE080624

DATE: 6/27/2024

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	2 OF 15
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

GENERAL NOTES (CONT.)

34. COORDINATE ANY/ALL PROPOSED CHANGES TO THE APPROVED EROSION AND SEDIMENT POLLUTION CONTROL PLAN WITH THE ENGINEER AND PENNDOT DISTRICT ENVIRONMENTAL MANAGER. BASED UPON THE PENNDOT'S REVIEW AND APPROVAL, SUBMIT A REVISED EROSION AND SEDIMENT POLLUTION CONTROL PLAN TO THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR REVIEW AND APPROVAL.

35. CONTACT THE MUNICIPALITY IN REGARDS TO WHICH LOCAL RECYCLING FACILITIES OR WASTE MANAGEMENT PRACTICES ARE TO BE USED FOR PROJECT CONSTRUCTION WASTES. CONSTRUCTION WASTES COULD INCLUDE TEMPORARY MATERIALS REQUIRED FOR CONSTRUCTION AND POTENTIAL EXCESS CONSTRUCTION MATERIALS. ALSO INCLUDED IN CONSTRUCTION WASTES WILL BE TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL BMPS.

36. THE CONTRACTOR WILL BE RESPONSIBLE TO PERFORM "ENVIRONMENTAL DUE DILIGENCE" TO ENSURE THAT ALL FILL MATERIALS BROUGHT ON-SITE MEET "CLEAN FILL" STANDARDS AS DEFINED BY PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

37. CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.)

38. ENVIRONMENTAL DUE DILIGENCE MUST BE PERFORMED TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF A REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY MANAGEMENT OF CLEAN FILL.

39. ROWE RUN IS CLASSIFIED AS A COLD WATER FISHERY (CWF) AND MIGRATORY FISHERY (MF) IN ACCORDANCE WITH PENNSYLVANIA CODE, TITLE 25, CHAPTER 93. ROWE RUN IS CONSIDERED A STOCKED TROUT STREAM BY THE PENNSYLVANIA FISH AND BOAT COMMISSION.

40. MIDDLE SPRING CREEK IS CLASSIFIED AS A HIGH QUALITY COLD WATER FISHERY (HQ-CWF) AND MIGRATORY FISHERY (MF) IN ACCORDANCE WITH PENNSYLVANIA CODE, TITLE 25, CHAPTER 93. THE MIDDLE SPRING CREEK IS CONSIDERED A CLASS A TROUT STREAM BY THE PENNSYLVANIA FISH AND BOAT COMMISSION.

BMP INSPECTION, MAINTENANCE, AND REPAIR (IMR) SCHEDULE

BMP	INSPECTION	MAINTENANCE	REPAIR
COMPOST FILTER SOCK	WEEKLY AND AFTER EACH RUNOFF EVENT	REMOVE SEDIMENT WHEN IT REACHES 1/2 OF EXPOSED HEIGHT	ANY SECTION OF THE FILTER SOCK THAT HAS BEEN UNDERMINED OR WASHED OUT SHOULD BE IMMEDIATELY REPLACED WITH ADDITION FILTER SOCK OR A ROCK FILTER OUTLET.
SITE STABILIZATION (SEEDING)	DAILY AND AFTER EACH RUNOFF EVENT	———	IF WASHOUT OCCURS, EVALUATE IF CONCENTRATED SHEET FLOW IS LIKELY TO HAPPEN AGAIN. IF SO, RE-SEED AND STABILIZE WITH AN APPROPRIATE ROLLED EROSION CONTROL PRODUCT. IF NOT LIKELY TO HAPPEN AGAIN, RE-SEED AND APPLY MULCH.
TEMPORARY ACCESS ROAD	DAILY	THICKNESS WILL BE MAINTAINED TO THE SPECIFIED DIMENSIONS	PLACE ADDITIONAL ROCK WHENEVER ROCK BECOMES CLOGGED WITH SEDIMENT.
INLET FILTER BAGS	WEEKLY AND AFTER EACH RUNOFF EVENT	REMOVE SEDIMENT WHEN IT REACHES 1/2 OF THE MAXIMUM CAPACITY OF THE BAG OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET	IF DAMAGED, REPLACE WITH SPECIFIED FILTER BAG
CONCRETE WASHOUT	DAILY, WHEN UTILIZED	ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY, POLYETHYLENE LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.	DAMAGED OR LEAKING WASHOUTS SHOULD BE REPAIRED OR REPLACED IMMEDIATELY.
ROCK CONSTRUCTION ENTRANCE	DAILY	THICKNESS WILL BE MAINTAINED TO THE SPECIFIED DIMENSIONS	PLACE ADDITIONAL ROCK WHENEVER ROCK BECOMES CLOGGED WITH SEDIMENT
ROLLED EROSION CONTROL PRODUCT	WEEKLY AND AFTER EACH RUNOFF EVENT	———	DAMAGED OR DISPLACED RECP SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS

REMOVAL OF TEMPORARY CONTROLS

ALL TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL BMPS MUST BE MAINTAINED PROPERLY UNTIL THE SITE IS STABILIZED. REMOVAL OF TEMPORARY CONTROLS MUST OCCUR SEQUENTIALLY STARTING UPSTREAM OR UPSLOPE WHEN FINAL STABILIZATION IS ACHIEVED.

TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL BMPS TO BE REMOVED INCLUDE COMPOST FILTER SOCK, ROCK CONSTRUCTION ENTRANCES, AND ANY OTHER UNFORESEEN TEMPORARY BMPS THAT MAY HAVE BEEN INSTALLED TO PREVENT EROSION AND SEDIMENT POLLUTION DURING CONSTRUCTION.

ANY AREAS DISTURBED BY THE REMOVAL OF TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL BMPS MUST BE PERMANENTLY STABILIZED BEFORE THE SITE MAY BE CONSIDERED COMPLETE.

ALL TEMPORARY STAGING AREAS WILL BE RETURNED TO ORIGINAL CONDITIONS. COMPACTED SOIL SHALL BE LOOSENED BY MEANS OF TILLAGE IN ACCORDANCE WITH PENNDOT PUBLICATION 408/2020 SECTION 804 - SEEDING AND SOIL SUPPLEMENTS. AREAS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH PENNDOT PUBLICATION 408/2020 SECTION 804 - SEEDING AND SOIL SUPPLEMENTS AND SECTION 805 - MULCHING.

STABILIZATION SPECIFICATIONS

UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES WILL EXCEED 4 DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES.

AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES AND/OR 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.

TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION. COMPACTED SOILS SHOULD BE SCARIFIED 6 TO 12 INCHES ALONG CONTOUR WHENEVER POSSIBLE PRIOR TO SEEDING.

IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE THE DISTURBED AREAS. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINAL GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.

PROJECT CONTACTS:

FRANKLIN COUNTY CONSERVATION DISTRICT
185 FRANKLIN FARM LANE
CHAMBERSBURG, PA 17202
(717) 264-5499

SOUTHCENTRAL REGIONAL OFFICE
PENNSYLVANIA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
909 ELMERTON AVENUE
HARRISBURG, PA 17110
PHONE: (717) 705-4700

HEIDI MERTZ
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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
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EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	3 OF 15
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

LIMIT OF WORK
STA 591+50.00
SEG 0540 OFFSET 3134
SR 0011 SEC 095
SOUTHAMPTON TOWNSHIP
SHIPPENSBURG BOROUGH
FRANKLIN COUNTY

START WORK
STA 592+36.00
SEG 0540 OFFSET 3220
SR 0011 SEC 095

CONSTR ⊞ TEMPORARY ACCESS ROAD 1

CONSTR ⊞ TEMPORARY ACCESS ROAD 2

NORFOLK SOUTHERN RAILWAY COMPANY

TICKES AVE

LURGAN AVE

N41°26'10"W

STOP WORK
STA 608+50.00
SEG 0560 OFFSET 0061
SR 0011 SEC 095

LIMIT OF WORK
STA 609+00.00
SEG 0560 OFFSET 0111
SR 0011 SEC 095
SHIPPENSBURG BOROUGH
FRANKLIN COUNTY

SURVEY & CONSTR ⊞ SR 0011

SHIPPENSBURG BOROUGH

SOUTHAMPTON TOWNSHIP

SR 0011 W KING ST

5.2 MILES TO SR 0997

0.3 MILES TO SR 0533

CONSTR ⊞ TEMPORARY ACCESS ROAD 4

SR 0011 STA 603+97.44 =
LURGAN AVE STA 10+00.00

CONSTR ⊞ TEMPORARY ACCESS ROAD 3

INDEX MAP
0 60 120 FEET

LEGEND
- PLAN - STAGE 1
- PLAN - STAGE 2
- SHEET BREAK

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
ENGINEER
No. PE088624

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	4 OF 15
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

PERMANENT SEEDING SPECIFICATIONS

FORMULA B RESIDENTIAL MIX
SPECIES: PERENNIAL RYEGRASS/CREEPING RED FESCUE OR CHEWINGS FESCUE/KENTUCKY BLUEGRASS
% PURE LIVE SEED: SEE PENNDOT PUB 408 SECTION 804.2
APPLICATION RATE 210 LB/AC
FERTILIZER TYPE: 38-0-0
FERTILIZER RATE: 242 LB/AC
LIME RATE: 3872 LB/AC
LIME RATE: 1.9 T/AC
MULCH TYPE: STRAW
MULCHING RATE: 3 T/AC
ANCHORING MATERIAL: MULCH BINDER
ANCHORING METHOD: SEE PENNDOT PUB 408 SECTION 805.3
ANCHORING RATE: SEE PENNDOT PUB 408 SECTION 805.3
SEEDING SEASON: MARCH 15 TO JUNE 1
AUGUST 1 TO OCTOBER 15

FORMULA L CLEAR ZONE MIX
SPECIES: HARD FESCUE, CREEPING RED FESCUE AND ANNUAL RYEGRASS
% PURE LIVE SEED: SEE PENNDOT PUB 408 SECTION 804.2
APPLICATION RATE 232.3 LB/AC
FERTILIZER TYPE: 38-0-0
FERTILIZER RATE: 242 LB/AC
LIME RATE: 3872 LB/AC
LIME RATE: 1.9 T/AC
MULCH TYPE: STRAW
MULCHING RATE: 3 T/AC
ANCHORING MATERIAL: MULCH BINDER
ANCHORING METHOD: SEE PENNDOT PUB 408 SECTION 805.3
ANCHORING RATE: SEE PENNDOT PUB 408 SECTION 805.3
SEEDING SEASON: MARCH 15 TO JUNE 1
AUGUST 1 TO OCTOBER 15

FORMULA C CONSERVATION MIX
SPECIES:
- NURSERY CROPS:
  - OATS (AVENA SATIVA) (SPRING)
  - CEREAL RYE (SECALE CEREALE) (FALL)
- PERMANENT SPECIES:
  - LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)
  - SHOWY TICK-TREFOIL (DESMODIUM CANADENSE)
  - PARTRIDGE PEA (CHAMAECRISTA FASCICULATA (SYN: CASSIA FASCICULATA))
  - SMOOTH BLUE ASTER (SYMPHYOTRICHUM LAEVA)
  - BLACK-EYED SUSAN (RUDBECKIA HIRTA)
  - PURPLE TOP (TRIDENS FLAVUS)
  - BIG BLUESTEM (ANDROPOGON GERARDII)
  - CANADA WILDRYE (ELYMUS CANADENSIS)

% PURE LIVE SEED: SEE PENNDOT PUB 408 SECTION 804.2
APPLICATION RATE 60 LB/AC
FERTILIZER TYPE: N/A
FERTILIZER RATE: N/A
LIME RATE: N/A
MULCH TYPE: EROSION CONTROL MULCH BLANKET
MULCHING RATE: N/A
ANCHORING MATERIAL: N/A
ANCHORING METHOD: SEE PENNDOT PUB 408 SECTION 805.3
ANCHORING RATE: SEE PENNDOT PUB 408 SECTION 805.3
SEEDING SEASON: - NURSERY CROPS PORTION: ANYTIME
- NATIVE PORTION: OCTOBER 15 TO MAY 15

FORMULA T TEMPORARY GRASS MIX
SPECIES: OATS (AVENA SATIVA) (SPRING)
CEREAL RYE (SECALE CEREALE) (FALL)
% PURE LIVE SEED: SEE PENNDOT PUB 408 SECTION 804.2
APPLICATION RATE 30 LB/AC
FERTILIZER TYPE: 38-0-0
FERTILIZER RATE: 242 LB/AC
LIME RATE: 3872 LB/AC
LIME RATE: 1.9 T/AC
MULCH TYPE: STRAW
MULCHING RATE: 3 T/AC
ANCHORING MATERIAL: MULCH BINDER
ANCHORING METHOD: SEE PENNDOT PUB 408 SECTION 805.3
ANCHORING RATE: SEE PENNDOT PUB 408 SECTION 805.3
SEEDING SEASON: MARCH 15 TO JUNE 1
AUGUST 1 TO OCTOBER 15

SECTION 805 - MULCHING

1. PROPERLY MAINTAIN MULCHED AREAS UNTIL THE ENTIRE PROJECT HAS BEEN COMPLETED. PROMPTLY REAPPLY MULCH MATERIALS WHICH BECOME DISLODGED OR LOST DUE TO WIND, RAIN, OR OTHER CAUSES, AT INITIAL OR MODIFIED RATES, AS DIRECTED. AFTER MULCHING WORK ON A SLOPE HAS BEEN SATISFACTORILY COMPLETED, IF A SLOPE FAILURE OCCURS, ON WHICH REQUIRES REDRESSING, EXCAVATION OR THE ESTABLISHMENT OF A NEW SLOPE, REPLACE THE MULCH, AS DIRECTED.

GENERAL SEQUENCE OF CONSTRUCTION

STAGE 1

1. PERFORM A PRE-PROJECT SITE EVALUATION AND DETERMINE IF THERE ARE AREAS WITHIN THE LIMITS OF DISTURBANCE THAT SHOULD NOT BE DISTURBED DURING THE LIFE OF THE PROJECT.
2. CLEARLY MARK THE LIMITS OF DISTURBANCE AT THE LOCATIONS INDICATED ON THE PLAN. USE STAKES AND FLAGGING THAT ARE DURABLE ENOUGH TO LAST THE ENTIRE DURATION OF ACTIVE DISTURBANCE. INSTALL CONSTRUCTION FENCING AROUND AREAS SHOWN ON THE PLAN AND/OR IDENTIFIED DURING THE PRE-PROJECT EVALUATION. CONSTRUCTION VEHICLES ARE NOT PERMITTED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE DRAWINGS.
3. INSTALL STAGE 1 TRAFFIC CONTROL DEVICES AND SIGNING AS INDICATED ON THE TRAFFIC CONTROL PLAN.
4. INSTALL COMPOST FILTER SOCK, INLET FILTER BAGS, AND CONCRETE WASHOUT FACILITIES.
5. BEGIN CLEARING AND GRUBBING OPERATIONS. REMOVE TOPSOIL AND STOCKPILE.
6. PERFORM UTILITY RELOCATION WORK.
7. REMOVE EXISTING WALL IN NORTHEAST QUADRANT.
8. CONSTRUCT STAGE 1 ROCK CONSTRUCTION ENTRANCES AND TEMPORARY ACCESS ROADS.
9. PERFORM SR 0011 EMBANKMENT LAYBACK EXCAVATION.
10. PERFORM STRUCTURE WORK.
11. REMOVE AND RESTORE TEMPORARY ACCESS ROADS TO EXISTING GRADE. IMMEDIATELY SEED, MULCH, AND APPLY ROLLED EROSION CONTROL PRODUCTS TO DISTURBED AREAS. NO. 1 COARSE AGGREGATE BETWEEN THE RAILROAD TRACK AND THE TOE OF SLOPE IS TO REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETE AT THE REQUEST OF THE RAILROAD.
12. IMMEDIATELY SEED, MULCH, AND APPLY ROLLED EROSION CONTROL PRODUCTS TO ALL DISTURBED AREAS THAT ARE AT FINAL GRADE WITH PERMANENT SEED.
13. REMOVE EROSION AND SEDIMENTATION CONTROL BMP'S ONCE FINAL STABILIZATION HAS BEEN ACHIEVED OVER THE ENTIRE SITE. REFER TO SHEET 1 FOR FINAL STABILIZATION DEFINITION.
14. GRADE AND PLACE SUBBASE, BASE COURSE, AND BINDER COURSE
15. PLACE STAGE 1 GUIDERAIL.
16. INSTALL FINAL WEARING COURSE
17. REMOVE STAGE 1 TRAFFIC CONTROL DEVICES AND SIGNING.

STAGE 2

1. PERFORM A PRE-PROJECT SITE EVALUATION AND DETERMINE IF THERE ARE AREAS WITHIN THE LIMITS OF DISTURBANCE THAT SHOULD NOT BE DISTURBED DURING THE LIFE OF THE PROJECT.
2. CLEARLY MARK THE LIMITS OF DISTURBANCE AT THE LOCATIONS INDICATED ON THE PLAN. USE STAKES AND FLAGGING THAT ARE DURABLE ENOUGH TO LAST THE ENTIRE DURATION OF ACTIVE DISTURBANCE. INSTALL CONSTRUCTION FENCING AROUND AREAS SHOWN ON THE PLAN AND/OR IDENTIFIED DURING THE PRE-PROJECT EVALUATION. CONSTRUCTION VEHICLES ARE NOT PERMITTED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE DRAWINGS.
3. INSTALL STAGE 2 TRAFFIC CONTROL DEVICES AND SIGNING AS INDICATED ON THE TRAFFIC CONTROL PLAN.
4. INSTALL COMPOST FILTER SOCK, INLET FILTER BAGS, AND CONCRETE WASHOUT FACILITIES.
5. BEGIN CLEARING AND GRUBBING OPERATIONS. REMOVE TOPSOIL AND STOCKPILE.
6. CONSTRUCT STAGE 2 ROCK CONSTRUCTION ENTRANCES AND TEMPORARY ACCESS ROADS.
7. PERFORM SR 0011 EMBANKMENT LAYBACK EXCAVATION.
8. PERFORM STRUCTURE WORK.
9. EXCAVATE EXISTING GRAVEL AREAS SHOWN AS PROPOSED SEEDING RESTORATION AREAS ON THE PLANS DOWN TO BOTTOM OF TOPSOIL, APPROXIMATELY 4 TO 8 INCHES BELOW GRADE. BACKFILL WITH TOPSOIL BACK TO EXISTING GRADE AND IMMEDIATELY SEED, MULCH, AND APPLY ROLLED EROSION CONTROL PRODUCTS TO DISTURBED AREAS.
10. REMOVE AND RESTORE TEMPORARY ACCESS ROADS TO EXISTING GRADE. IMMEDIATELY SEED, MULCH, AND APPLY ROLLED EROSION CONTROL PRODUCTS TO DISTURBED AREAS. NO. 1 COARSE AGGREGATE BETWEEN THE RAILROAD TRACK AND THE TOE OF SLOPE IS TO REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETE AT THE REQUEST OF THE RAILROAD.
11. IMMEDIATELY SEED, MULCH, AND APPLY ROLLED EROSION CONTROL PRODUCTS TO ALL DISTURBED AREAS THAT ARE AT FINAL GRADE WITH PERMANENT SEED.
12. REMOVE EROSION AND SEDIMENTATION CONTROL BMP'S ONCE FINAL STABILIZATION HAS BEEN ACHIEVED OVER THE ENTIRE SITE. REFER TO SHEET 1 FOR FINAL STABILIZATION DEFINITION.
13. GRADE AND PLACE SUBBASE, BASE COURSE, AND BINDER COURSE
14. PLACE STAGE 2 GUIDERAIL.
15. INSTALL FINAL WEARING COURSE
16. REMOVE STAGE 2 TRAFFIC CONTROL DEVICES AND SIGNING.
17. TEXTURIZE BRIDGE DECK AND APPROACH SLABS, PERFORM MILLING AND PLACE FINAL WEARING COURSE, AND PLACE FINAL PAVEMENT MARKINGS IN ACCORDANCE WITH PENNDOT PUBLICATION 213, PATA 103 AND PATA 104.

SOILS ENGINEERING PROPERTIES (LIMITATIONS)

SOIL SYMBOL	SOIL SERIES	PERMEABILITY	HYDRIC SOIL	LIMITATIONS BY USE					RESOLUTIONS
				TOPSOIL	EMBANKMENT (ROAD FILL)	SHALLOW EXCAVATIONS	LOCAL ROADS AND STREETS	WATER MANAGEMENT PONDS	
CsA	CLARKSBURG SILT LOAM, 0 TO 3 PERCENT SLOPES	SLOW	NO	FAIR	POOR	VERY LIMITED	VERY LIMITED	SOMEWHAT LIMITED	PROVIDE IMMEDIATE STABILIZATION AFTER CUT EXCAVATION; APPLY ROLLED EROSION CONTROL PRODUCT TO EMBANKMENTS
HcB	HAGERSTOWN-CARBO SILTY CLAY LOAMS, 3 TO 8 PERCENT SLOPES	MODERATE	NO	POOR	POOR	SOMEWHAT LIMITED	VERY LIMITED	SOMEWHAT LIMITED	PROVIDE IMMEDIATE STABILIZATION AFTER CUT EXCAVATION; APPLY ROLLED EROSION CONTROL PRODUCT TO EMBANKMENTS
HcC	HAGERSTOWN-CARBO SILTY CLAY LOAMS, 8 TO 15 PERCENT SLOPES	MODERATE	NO	POOR	POOR	SOMEWHAT LIMITED	VERY LIMITED	VERY LIMITED	PROVIDE IMMEDIATE STABILIZATION AFTER CUT EXCAVATION; APPLY ROLLED EROSION CONTROL PRODUCT TO EMBANKMENTS
RyB	RYDER-NOLLVILLE CHANNERY SILT LOAMS, 3 TO 8 PERCENT SLOPES	MODERATE	NO	POOR	POOR	VERY LIMITED	SOMEWHAT LIMITED	VERY LIMITED	PROVIDE IMMEDIATE STABILIZATION AFTER CUT EXCAVATION; APPLY ROLLED EROSION CONTROL PRODUCT TO EMBANKMENTS
UhB	URBAN LAND-HAGERSTOWN COMPLEX, 0 TO 8 PERCENT SLOPES	VERY SLOW	NO	N/A	N/A	N/A	N/A	N/A	PROVIDE IMMEDIATE STABILIZATION AFTER CUT EXCAVATION; APPLY ROLLED EROSION CONTROL PRODUCT TO EMBANKMENTS
Uu	URBAN LAND-UDORTHENTS COMPLEX, 0 TO 25 PERCENT SLOPES	VERY SLOW	NO	N/A	N/A	N/A	N/A	N/A	PROVIDE IMMEDIATE STABILIZATION AFTER CUT EXCAVATION; APPLY ROLLED EROSION CONTROL PRODUCT TO EMBANKMENTS

SOILS LEGEND

SYMBOL	SOIL NAME	SLOPES (%)	DEPTH TO BEDROCK	ERODIBILITY	pH	DEPTH TO SEASONAL HIGH WATER TABLE (IN)	RISK OF CORROSION		FROST ACTION	HYDROLOGIC SOIL GROUP
							UNCOATED STEEL	CONCRETE		
CsA	CLARKSBURG SILT LOAM	0 TO 3	20 - 36 IN.	SLIGHT	5.1-6.5	18 - 36 IN.	HIGH	MODERATE	MODERATE	C
HcB	HAGERSTOWN-CARBO SILTY CLAY LOAMS	3 TO 8	60 - 80 IN.	MODERATE	4.5-7.8	> 80 IN.	HIGH	MODERATE	MODERATE	B/D
HcC	HAGERSTOWN-CARBO SILTY CLAY LOAMS	8 TO 15	60 - 80 IN.	SEVERE	4.5-7.8	> 80 IN.	HIGH	MODERATE	MODERATE	B/D
RyB	RYDER-NOLLVILLE CHANNERY SILT LOAMS	3 TO 8	20 - 40 IN.	MODERATE	5.1-7.8	> 80 IN.	MODERATE	LOW	MODERATE	B
UhB	URBAN LAND-HAGERSTOWN COMPLEX	0 TO 8	60 - 80 IN.	MODERATE	4.5-7.3	> 80 IN.	HIGH	MODERATE	MODERATE	B
Uu	URBAN LAND-UDORTHENTS COMPLEX	0 TO 25	0 - 10 IN.	MODERATE	5.1-7.3	> 80 IN.	MODERATE	LOW	-	B

COMMONWEALTH OF PENNSYLVANIA
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No.PE080624

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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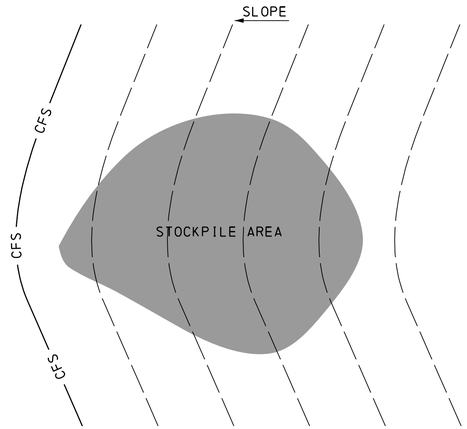
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	5 OF 15
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

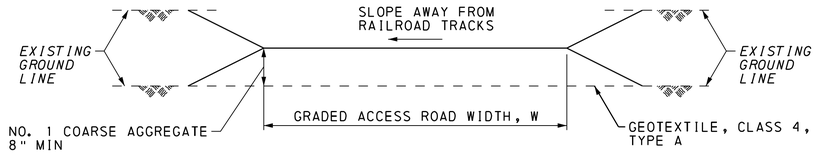


NOTES

1. STOCKPILES ARE TO BE LOCATED WITHIN THE PERMIT BOUNDARY. LOCATIONS TO BE DETERMINED BY CONTRACTOR BASED ON CONSTRUCTION STAGING, SEQUENCING, AND FIELD CONDITIONS.
2. CONSTRUCT STOCKPILES IN ACCORDANCE WITH PUBLICATION 408/2020 SPECIFICATION, SECTION 801.
3. APPLY TEMPORARY SEEDING, FORMULA T AND HAY MULCH IN ACCORDANCE WITH PUBLICATION 408/2020 SPECIFICATIONS, SECTIONS 804 AND 805 TO STOCKPILES IMMEDIATELY.
4. STOCKPILE HEIGHTS MUST NOT EXCEED 35'. STOCKPILE SLOPES MUST BE 2H:1V OR FLATTER.

TYPICAL STOCKPILE AREA

NOT TO SCALE



TYPICAL SECTION

NOTES

1. TO MAINTAIN UNIFORM SURFACE ON CONTRACTOR ACCESS ROAD, PLACE NO. 1 COARSE AGGREGATE AS REQUIRED.
2. UPON REMOVAL OF CONTRACTOR ACCESS ROAD, RESTORE THE EXISTING GROUND LINE TO ORIGINAL CONDITIONS. NO. 1 COARSE AGGREGATE BETWEEN THE RAILROAD TRACKS AND THE TOE OF SLOPE IS TO REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETE AT THE REQUEST OF THE RAILROAD.

ROADWAY	ACCESS ROAD NO.	STATION	SIDE	LENGTH (FT)	WIDTH, W (FT)
SR 0011 SURVEY & CONSTR ℄	1	596+50 TO 601+10	LT	350	VARIES, 10' MIN TO 12' MAX
	2	600+38 TO 601+95	LT	300	
	3	601+87 TO 603+00	RT	205	
	4	602+74 TO 603+56	RT	88	

TEMPORARY ACCESS ROAD

ITEM NO. 0203-0001
ITEM NO. 0212-0014
ITEM NO. 0703-0020
NOT TO SCALE

TABLE 4.1 (COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS)

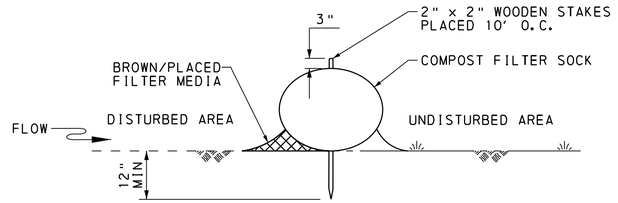
MATERIAL TYPE	3 MIL HDPE	5 MIL HDPE	5 MIL HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPP)
MATERIAL CHARACTERISTICS	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE	BIO-DEGRADABLE	PHOTO-DEGRADABLE	PHOTO-DEGRADABLE
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"
TENSILE STRENGTH	-	26 PSI	26 PSI	44 PSI	202 PSI
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% AT 1000 HR	23% AT 1000 HR	-	100% AT 1000 HR	100% AT 1000 HR
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS
TWO-PLY SYSTEMS					
INNER CONTAINMENT NETTING	HDPE BIAXIAL NET CONTINUOUSLY WOUND FUSION-WELDED JUNCTURES 3/4" X 3/4" MAXIMUM APERTURE SIZE				
OUTER FILTRATION MESH	COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER AND NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH) 3/16" MAX. APERTURE SIZE				
SOCK FABRICS COMPOSED OF BURLAP MAY BE USED ON PROJECTS LASTING 6 MONTHS OR LESS.					

TABLE 4.2 (COMPOST STANDARDS)

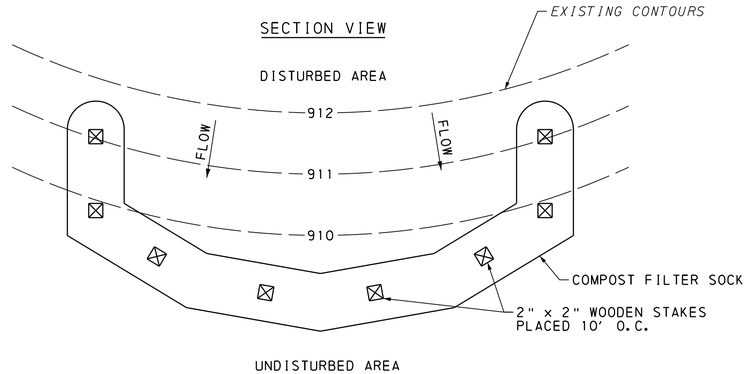
ORGANIC MATTER CONTENT	25% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.0 - 8.5
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	30%-50% PASS THROUGH 3/8" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 dS/m (mmhos/cm) MAXIMUM

COMPOST FILTER SOCKS

ROADWAY	BEGIN STA	END STA	SIDE	LENGTH (FT)	DIAMETER (IN)	STAGE
SR 0011 SURVEY & CONSTR ℄	601+82	602+66	RT	108	12	STAGE 1
	601+86	602+98	RT	157	24	
	602+76	602+94	RT	25	18	
	602+94	603+25	RT	42	18	
	603+34	603+78	RT	45	12	
	603+70	603+70	RT	75	12	
	596+45	598+73	LT	229	12	STAGE 2
	596+45	598+38	LT	192	12	
	599+63	601+07	LT	225	32	
	600+26	601+48	LT	189	18	
	600+77	601+79	LT	141	12	
	602+00	602+68	LT	71	12	



SECTION VIEW



PLAN VIEW

NOTES

1. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
5. 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.
6. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
7. 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.

COMPOST FILTER SOCK

ITEM NO. 0867-0012
ITEM NO. 0867-0018
ITEM NO. 0867-0022
ITEM NO. 0867-0032
NOT TO SCALE

COMMONWEALTH OF PENNSYLVANIA
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	6 OF 15
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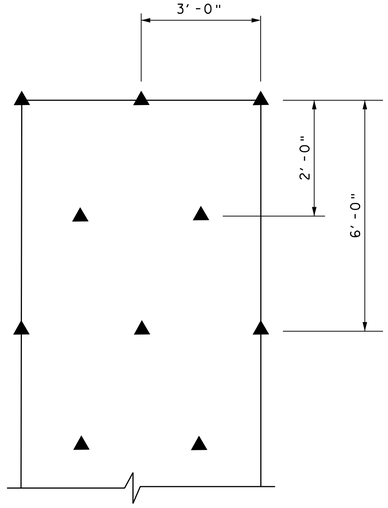
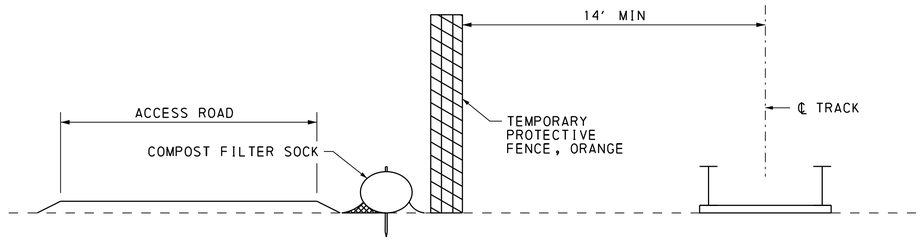


ANCHOR PATTERN FOR SLOPES
BETWEEN 3:1 AND 2:1
(INCLUDING 3:1)
1½ ANCHORS/SY



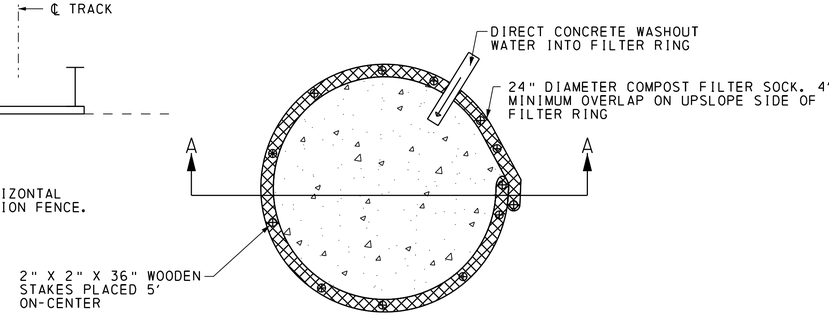
NOTES

1. TEMPORARY ACCESS ROADS LOCATED PARALLEL TO NS TRACKS SHALL PROVIDE A HORIZONTAL CLEARANCE OF 14'-0" FROM THE CENTERLINE OF TRACK TO THE ORANGE CONSTRUCTION FENCE.
2. ORANGE CONSTRUCTION FENCE SHALL BE INSTALLED PARALLEL TO THE TRACKS THE LENGTH OF THE ACCESS ROAD.

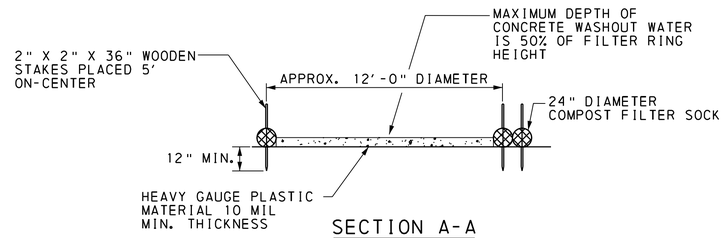
TEMPORARY PROTECTIVE FENCE, ORANGE				
ROADWAY	BEGIN STA	END STA	SIDE	LENGTH (FT)
SR 0011 SURVEY & CONSTR ℄	599+69	601+11	LT	226
	600+23	601+44	LT	186
	601+90	603+00	RT	142
	602+73	605+22	RT	552

TEMPORARY PROTECTIVE FENCE, ORANGE

ITEM NO. 4811-0003
NOT TO SCALE



PLAN VIEW



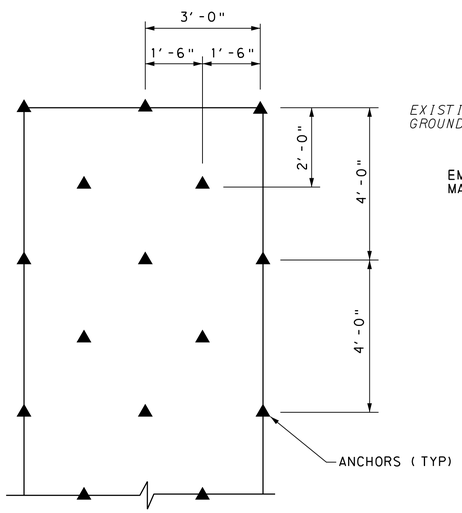
SECTION A-A

NOTES

1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
3. DISCUSS THE CONCRETE MANAGEMENT TECHNIQUES DESCRIBED IN THIS PLAN (SUCH AS HANDLING OF CONCRETE WASTE AND WASHOUT) WITH THE READY-MIX CONCRETE SUPPLIER BEFORE ANY DELIVERIES ARE MADE.
4. INCORPORATE REQUIREMENTS FOR CONCRETE WASTE MANAGEMENT INTO MATERIAL SUPPLIER AND SUBCONTRACTOR AGREEMENTS.
5. CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 50 FT FROM STORM DRAINS, OPEN DITCHES, OR SURFACE WATERS. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.
6. A SIGN SHOULD BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFROM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
7. CONCRETE WASHOUT FACILITIES SHOULD BE CONSTRUCTED ABOVE GRADE OR BELOW GRADE AT THE OPTION OF THE CONTRACTOR. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 4 IN. FOR ABOVE GRADE FACILITIES AND 12 IN. FOR BELOW GRADE FACILITIES.
8. CONCRETE WASHOUT FACILITIES SHOULD HAVE A TEMPORARY PIT OR BERMED AREAS OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND WASTE CONCRETE MATERIALS GENERATED DURING WASHOUT PROCEDURES.
9. WASHOUT OF CONCRETE TRUCKS SHOULD BE PERFORMED IN DESIGNATED AREAS ONLY.
10. ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO CONCRETE WASH OUT. CONCRETE WASHOUT FROM CONCRETE PUMPER BINS CAN BE WASHED INTO CONCRETE PUMPER TRUCKS AND DISCHARGED INTO DESIGNATED WASHOUT AREA OR PROPERLY DISPOSED OF OFF SITE. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP, REMOVED, AND DISPOSED OF FROM THE SITE. DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS AND RETURN THE FACILITIES TO A FUNCTIONAL CONDITION.
11. EXCAVATOR BUCKET SHALL BE WASHED INTO CONCRETE WASHOUT.
12. INSPECT DAILY. DEACTIVATE, REPAIR OR REPLACE IMMEDIATELY IF ANY DAMAGE OR LEAKS ARE FOUND. REMOVE ACCUMULATED MATERIALS WHEN THEY REACH 75% CAPACITY. REPLACE PLASTIC LINERS WITH EACH CLEANING OF THE WASHOUT FACILITY.

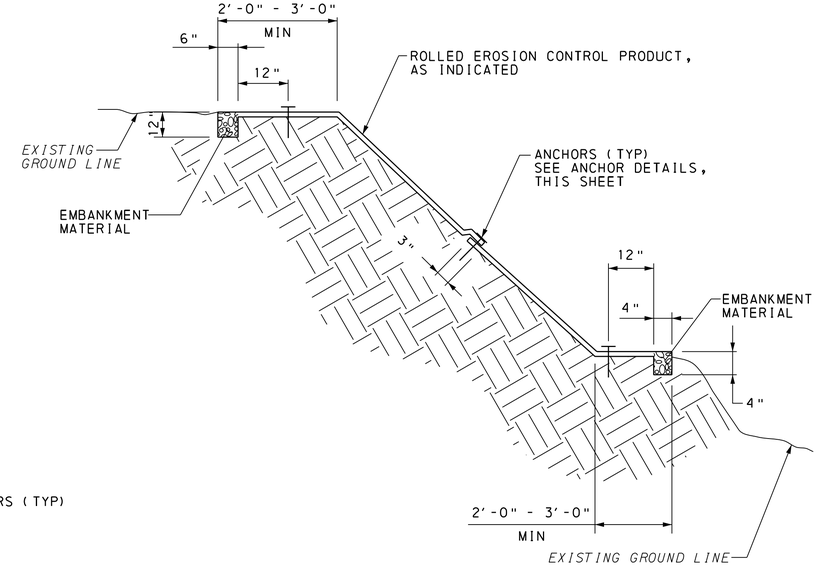
CONCRETE WASHOUT FACILITY

(CONCRETE CLEAN OUT AREAS ARE INCIDENTAL TO THE CONTRACT ITEMS)
NOT TO SCALE



ANCHOR PATTERN FOR SLOPES
BETWEEN 2:1 AND 1:1
(INCLUDING 2:1)
PLACE 2 ANCHORS/SY

ANCHOR PATTERNS



NOTES

1. ESTABLISH AND MAINTAIN CONTINUOUS CONTACT BETWEEN THE ROLLED EROSION CONTROL PRODUCTS AND THE SOIL.
2. PROVIDE ANCHORING DEVICES IN ACCORDANCE WITH PUBLICATION 408, SECTION 806.2(d).

TYPICAL SLOPE CROSS-SECTION

ROLLED EROSION CONTROL PRODUCTS (RECP)

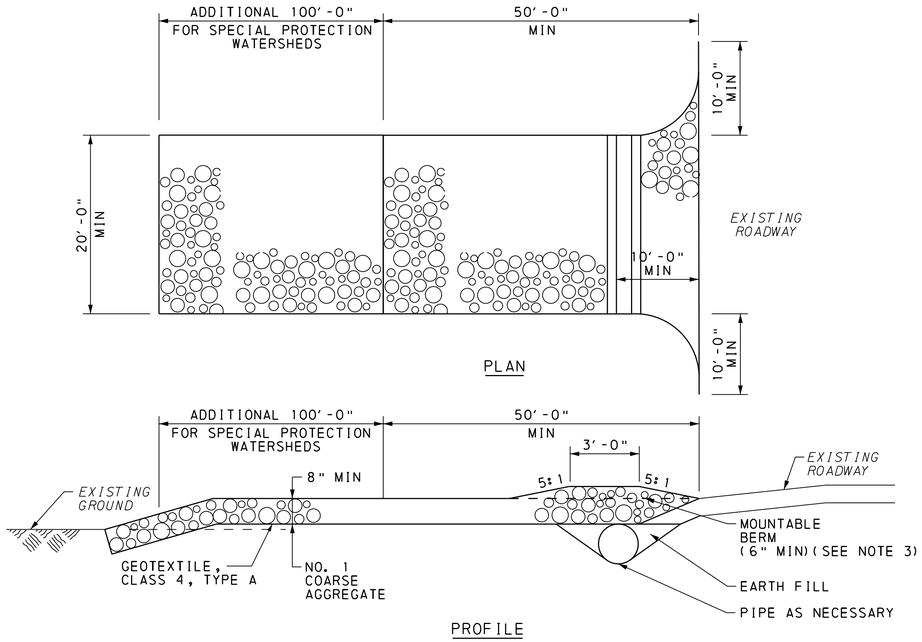
ITEM NO. 0806-0113
NOT TO SCALE

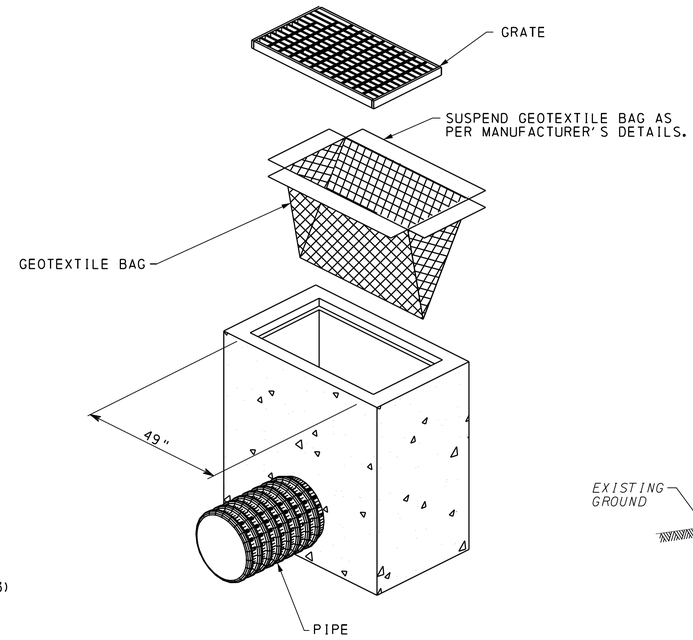
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
ENGINEER
No. PE090624

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

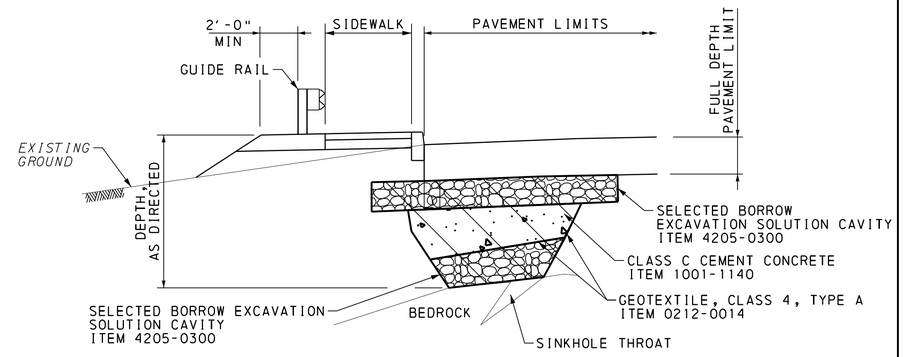
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	7 OF 15
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED
	GRATE			





ISOMETRIC VIEW



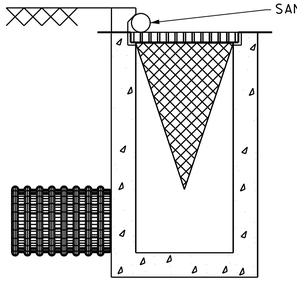
NOTES

1. REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
2. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
3. 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. CONSTRUCT A MOUNTABLE BERM ONLY WHEN 6" MIN COVER CANNOT BE PROVIDED OVER THE PIPE.
4. 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.
5. INSPECT THE ENTRANCE DAILY. REMOVE ALL SEDIMENT DEPOSITED ON THE PUBLIC ROADWAYS AND RETURN TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WILL NOT BE PERMITTED.
6. MAINTAIN STOCKPILE OF AASHTO NO. 1 COARSE AGGREGATE.
7. SATISFACTORILY REMOVE MATERIALS AS PER SPECIFICATION IN PUBLICATION 408, SECTION 849 WHEN ROCK CONSTRUCTION ENTRANCE IS NO LONGER NEEDED.
8. PROVIDE GEOTEXTILE MATERIAL MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 735. FURNISH AND INSTALL IN ACCORDANCE WITH PUBLICATION 408, SECTION 212. PROVIDE GEOTEXTILE ALONG ALL INTERFACE AREAS WITH GROUND CONTACT.
9. CONSTRUCT ROCK CONSTRUCTION ENTRANCE WITHIN THE RIGHT-OF-WAY OR EASEMENT AREAS. ENTRANCE MAY BE CONSTRUCTED ON A SKEW IF ADEQUATE PULL OUT SIGHT DISTANCE IS AVAILABLE.

ROCK CONSTRUCTION ENTRANCE

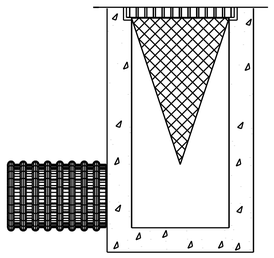
ITEM NO. 0203-0001
ITEM NO. 0212-0014
ITEM NO. 0703-0020
NOT TO SCALE

ROCK CONSTRUCTION ENTRANCE LIMITS				
ROADWAY	BEGIN STA	END STA	SIDE	LENGTH (FT)
SR 0011 SURVEY & CONSTR ℄	596+46.00	597+96.00	LT	150
	600+64.00	601+95.00	LT	150
	602+24.00	602+96.00	RT	150



TYPE C INLET INSTALLATION (TYP)

SIDE VIEW



TYPE M INLET INSTALLATION (TYP)

SIDE VIEW

NOTES

1. INSPECT INLET FILTER BAG AFTER EACH RUNOFF EVENT. MAINTAIN AS REQUIRED TO ENSURE PROPER FUNCTIONING OF THE BAG.
2. REMOVE ACCUMULATED SEDIMENT/DEBRIS WHEN THE INLET FILTER REACHES ONE-HALF MAXIMUM CAPACITY.
3. REPLACE FILTER BAG IF RIPPED OR TORN.
4. REMOVE AND PROPERLY DISPOSE OF INLET FILTER BAG WHEN NO LONGER NEEDED.

ROADWAY	STATION	OFFSET (FT)	SIDE	STAGE	INLET TYPE
SR 0011 SURVEY & CONSTR ℄	594+67.94	23.00	LT	1 & 2	TYPE M
	607+38.37	23.26	LT	1 & 2	TYPE C
	608+00.42	23.08	LT	1 & 2	TYPE M
	608+49.22	22.07	LT	1 & 2	TYPE C

INLET FILTER BAG FOR TYPE M INLET

ITEM NO. 0860-0000
NOT TO SCALE

INLET FILTER BAG FOR TYPE C INLET

ITEM NO. 0860-0002
NOT TO SCALE

SOLUTION CAVITY EXCAVATION
ITEM 9000-0005

SOLUTION CAVITY EXCAVATION DETAIL

ITEM NO. 9000-0005
NOT TO SCALE

SOLUTION CAVITY EXCAVATION STEPS:

1. EXCAVATE THE SINKHOLE DOWN TO ROCK; REMOVE DEBRIS AND VEGETATION
2. FLUSH HOLE WITH WATER EXPOSING ROCK SURFACE
3. EXCAVATE SOFT WET MATERIAL
4. PLACE LAYER OF GEOTEXTILE, CLASS 4, TYPE A DOWN SIDES OF SINKHOLE AND ACROSS THROAT
5. PLACE SELECTED BORROW EXCAVATION SOLUTION CAVITY
6. PLACE LAYER OF GEOTEXTILE, CLASS 4, TYPE A OVER SELECTED BORROW EXCAVATION SOLUTION CAVITY
7. PLACE CLASS C CEMENT CONCRETE
8. BACKFILL WITH SELECTED BORROW EXCAVATION SOLUTION CAVITY
9. PLACE BASE REPLACEMENT MATERIAL
10. CONTINUE PAVING OPERATIONS

SOLUTION CAVITY EXCAVATION NOTES:

1. QUANTITIES ARE ESTIMATED FOR UNEXPECTED PROBLEMS THAT MAY OCCUR AND DO NOT REFLECT CURRENT CONDITIONS
2. USE MATERIAL AS DESIGNATED BY DETAIL IN AREA OF SINKHOLE
3. ALL DEPTHS OF MATERIAL TO BE DETERMINED BY FIELD CONDITIONS AND FURNISHED AS DIRECTED BY EITHER THE DISTRICT'S STRUCTURE CONTROL ENGINEER OR GEOTECHNICAL SPECIALIST. FOR MORE INFORMATION, SEE SPECIAL PROVISION.

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
ENGINEER
No. PE080624

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	8 OF 15
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

LEGEND

ROCK CONSTRUCTION ENTRANCE

ROLLED EROSION CONTROL PRODUCT

SEEDING RESTORATION

TEMPORARY ACCESS ROAD

STAGING & STOCKPILE AREA

WORK AREA

COMPOST FILTER SOCK —CFS (XX)—

LIMIT OF DISTURBANCE / NPDES BOUNDARY — LOD —NPDES -

CONCRETE WASHOUT FACILITY

TEMPORARY PROTECTIVE FENCE, ORANGE —X————X—

INLET FILTER BAG

SOIL TYPE HcB

CUT LINE C

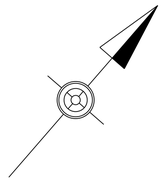
FILL LINE F

SOIL TYPE LINE

ROCK SLOPE

TEMPORARY CUT LINE TC

TEMPORARY FILL LINE TF



LIMIT OF WORK
STA 591+50.00
SEG 0540 OFFSET 3134
SR 0011 SEC 095
SOUTHAMPTON TOWNSHIP
SHIPPENSBURG BOROUGH
FRANKLIN COUNTY

START WORK
STA 592+36.00
SEG 0540 OFFSET 3220
SR 0011 SEC 095

UhB

Uu

PARK PLACE

PI STA 591+26.12

EASTERLY 120'

S49° 41' 28"W 150'

N49° 04' 46"E

SR 0011 SURVEY & CONSTR ℄

SR 0011 (ST KING STREET)

W KING ST

591 592 593 594 595

POI-1

RIM 710.86 SSMH
RIM 711.00 SSMH

RIM 708.59 SSMH

RIM 706.94 SSMH

SSCO (TYP)

CONC SIDEWALK

GRASS

MAC

CONC

NPDES

LEGAL RIGHT-OF-WAY LINE

LEGAL RIGHT-OF-WAY LINE

5.2 MILES TO SR 0997

SEE SHEET 9

SEE SHEET 11

1 STO
STUCC

CONC SIDEWAL

STAGE 1

0 25 50 FEET

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
ENGINEER
No.PE080624

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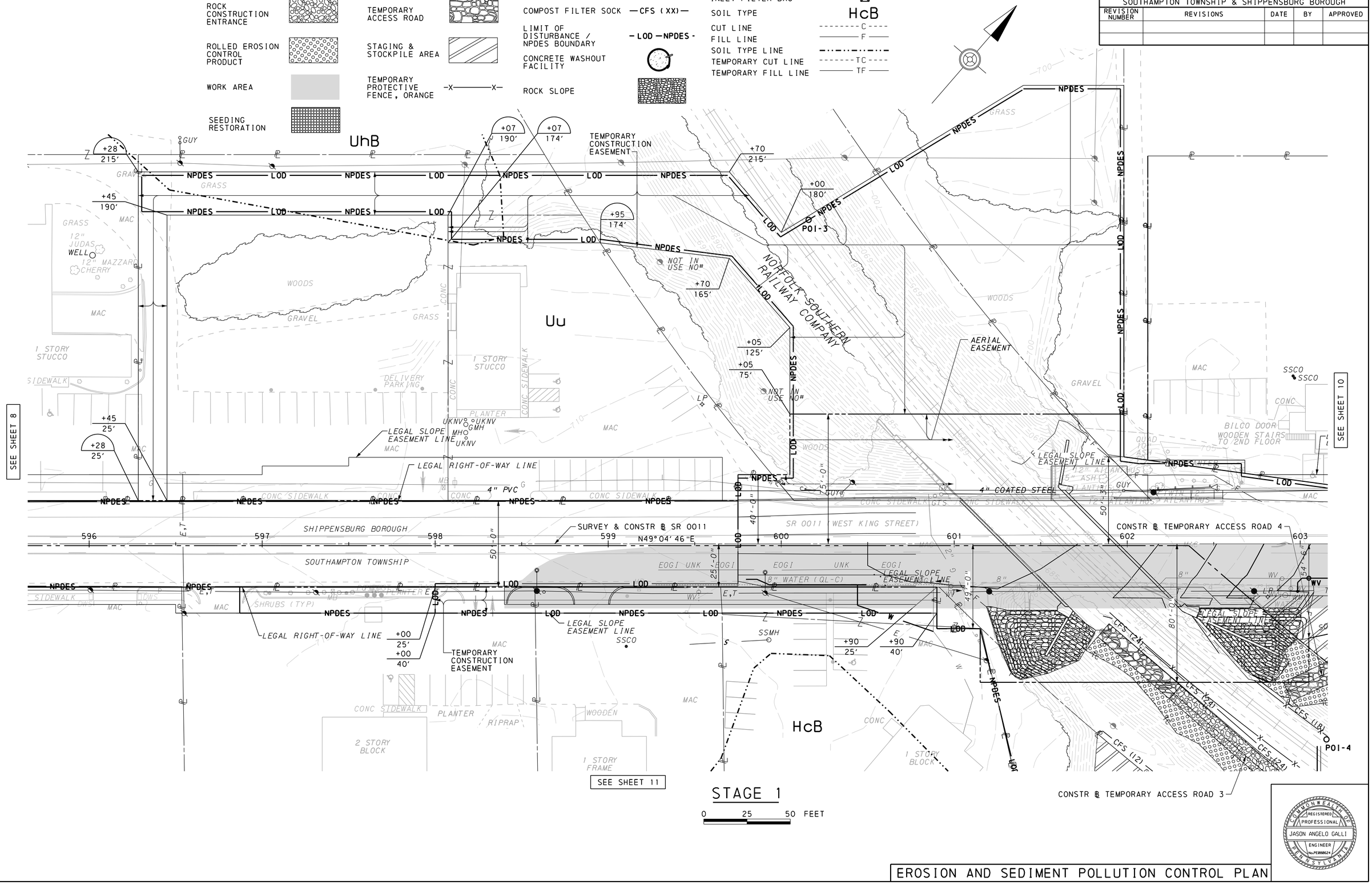
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	9 OF 15
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

LEGEND

- ROCK CONSTRUCTION ENTRANCE
- ROLLED EROSION CONTROL PRODUCT
- WORK AREA
- SEEDING RESTORATION
- TEMPORARY ACCESS ROAD
- STAGING & STOCKPILE AREA
- TEMPORARY PROTECTIVE FENCE, ORANGE —X———X—
- COMPOST FILTER SOCK —CFS (XX)—
- LIMIT OF DISTURBANCE / NPDES BOUNDARY — LOD —NPDES -
- CONCRETE WASHOUT FACILITY
- ROCK SLOPE
- INLET FILTER BAG
- SOIL TYPE HcB
- CUT LINE ---------C----
- FILL LINE ———F———
- SOIL TYPE LINE
- TEMPORARY CUT LINE ---------TC----
- TEMPORARY FILL LINE ———TF———



STAGE 1

0 25 50 FEET

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
ENGINEER
No. PE080624

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	10 OF 15
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

LEGEND

ROCK CONSTRUCTION ENTRANCE

TEMPORARY ACCESS ROAD

ROLLED EROSION CONTROL PRODUCT

STAGING & STOCKPILE AREA

SEEDING RESTORATION

WORK AREA

INLET FILTER BAG

COMPOST FILTER SOCK —CFS (XX)—

LIMIT OF DISTURBANCE / NPDES BOUNDARY —LOD —NPDES -

CONCRETE WASHOUT FACILITY

TEMPORARY PROTECTIVE FENCE, ORANGE -X———X-

SOIL TYPE HcB

CUT LINE --------C--------

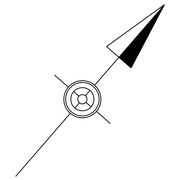
FILL LINE ——— F ———

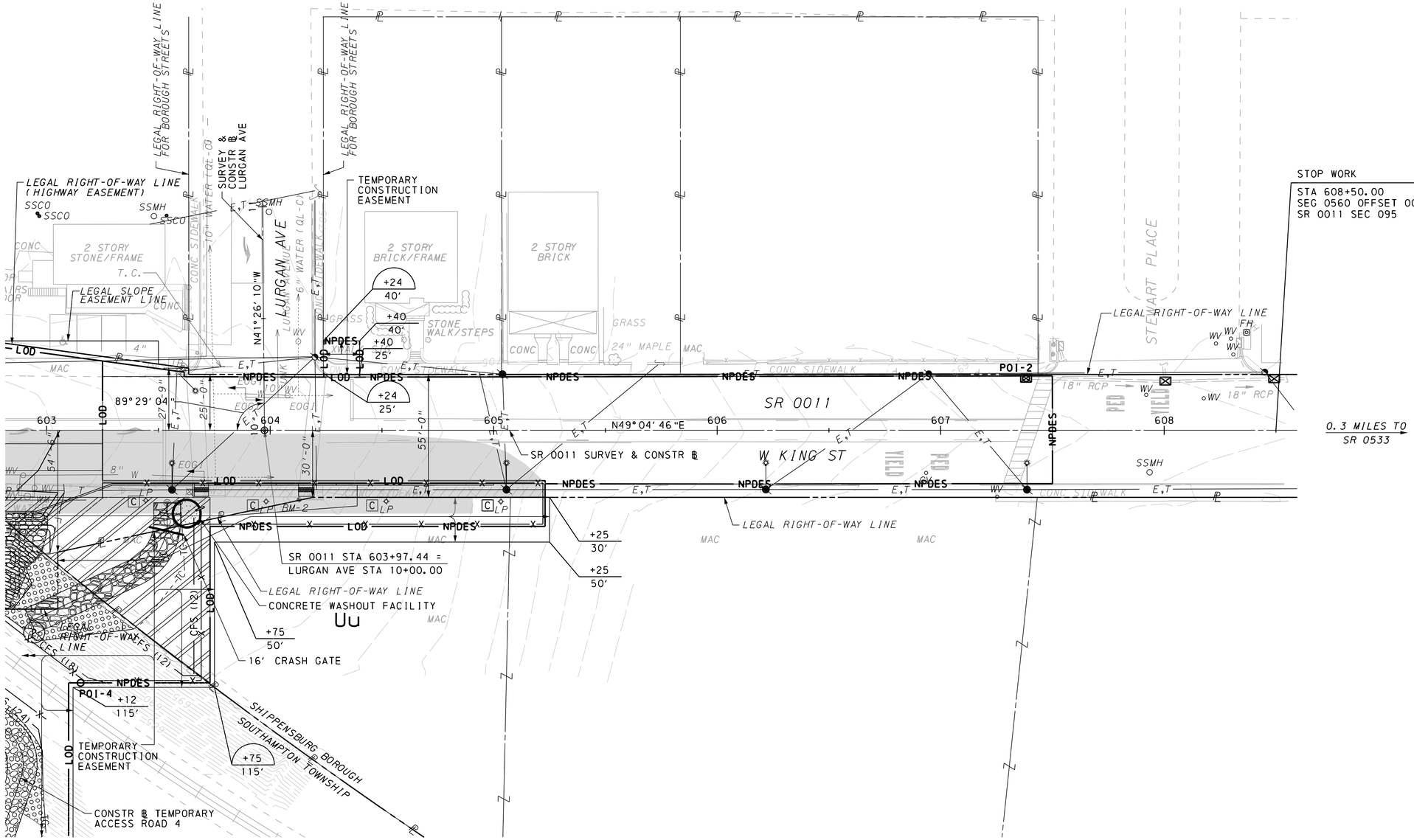
SOIL TYPE LINE

ROCK SLOPE

TEMPORARY CUT LINE -------TC----

TEMPORARY FILL LINE ——— TF ———





SEE SHEET 9

SEE SHEET 11

STOP WORK
STA 608+50.00
SEG 0560 OFFSET 0061
SR 0011 SEC 095

LIMIT OF WORK
STA 609+00.00
SEG 0560 OFFSET 0111
SR 0011 SEC 095
SHIPPENSBURG BOROUGH
FRANKLIN COUNTY

STAGE 1

0 25 50 FEET

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
ENGINEER
No. PE080624

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	11 OF 15
SOUTHAMPTON TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

LEGEND

ROCK CONSTRUCTION ENTRANCE

ROLLED EROSION CONTROL PRODUCT

SEEDING RESTORATION

TEMPORARY ACCESS ROAD

STAGING & STOCKPILE AREA

WORK AREA

COMPOST FILTER SOCK —CFS (XX)—

LIMIT OF DISTURBANCE / NPDES BOUNDARY —LOD —NPDES-

CONCRETE WASHOUT FACILITY

TEMPORARY PROTECTIVE FENCE, ORANGE -X———X-

TEMPORARY CUT LINE -------TC--------

TEMPORARY FILL LINE ——— TF ———

SOIL TYPE HcB

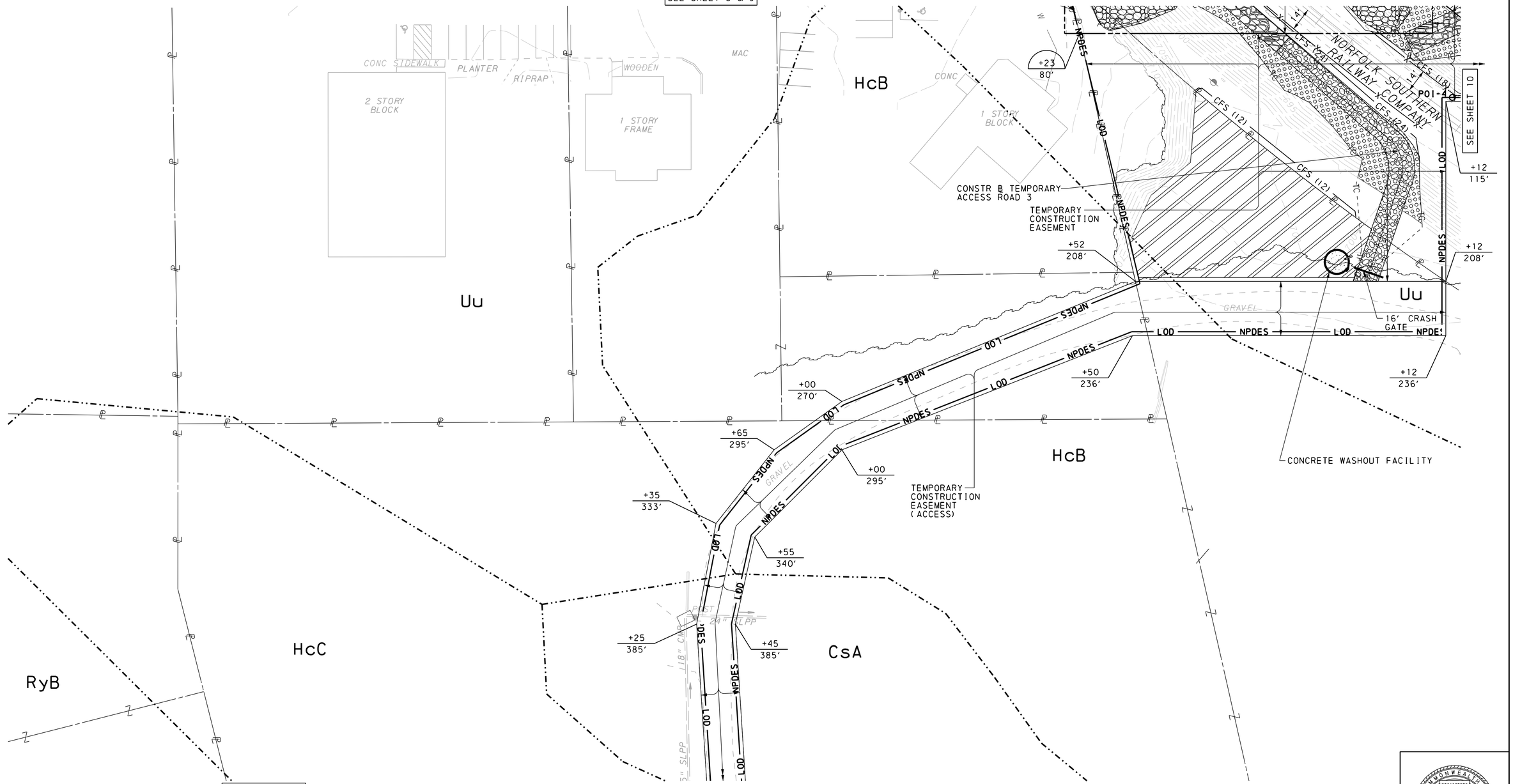
CUT LINE -------C--------

FILL LINE ——— F ———

SOIL TYPE LINE

ROCK SLOPE

SEE SHEET 8 & 9



STAGE 1

0 25 50 FEET

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
ENGINEER
No.PE080624

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	12 OF 15
SOUTHAMPTON TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

LEGEND

ROCK CONSTRUCTION ENTRANCE

ROLLED EROSION CONTROL PRODUCT

SEEDING RESTORATION

TEMPORARY ACCESS ROAD

STAGING & STOCKPILE AREA

WORK AREA

COMPOST FILTER SOCK —CFS (XX)—

LIMIT OF DISTURBANCE / NPDES BOUNDARY —LOD —NPDES-

CONCRETE WASHOUT FACILITY

TEMPORARY CUT LINE —TC—

TEMPORARY FILL LINE —TF—

SOIL TYPE HcB

CUT LINE —C—

FILL LINE —F—

SOIL TYPE LINE

ROCK SLOPE

SEE SHEET 11

RyB

HcC

CsA

LEGAL RIGHT-OF-WAY LINE

LEGAL RIGHT-OF-WAY LINE

PARK HEIGHTS AVENUE

RED OAK LANE

GAS MARKER

GAS MARKER

SSCO

WV SSCO

SSMH

SSMH

RIPRAP

MAC

15" RCP

GRAVEL

GUY

LP

+95 772′

+88 753′

+79 772′

+85 797′

+95 797′

+88 778′

+00 720′

+15 670′

+36 690′

+40 620′

+62 650′

+65 704′

TEMPORARY CONSTRUCTION EASEMENT (ACCESS)

LOD NPDES

STAGE 1

0 25 50 FEET

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
ENGINEER
No. PE080624

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	13 OF 15
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

LEGEND

ROCK CONSTRUCTION ENTRANCE

ROLLED EROSION CONTROL PRODUCT

SEEDING RESTORATION

TEMPORARY ACCESS ROAD

STAGING & STOCKPILE AREA

WORK AREA

COMPOST FILTER SOCK —CFS (XX)—

LIMIT OF DISTURBANCE / NPDES BOUNDARY —LOD—NPDES-

INLET FILTER BAG

CONCRETE WASHOUT FACILITY

TEMPORARY PROTECTIVE FENCE, ORANGE —X———X—

TEMPORARY CUT LINE ------TC------

TEMPORARY FILL LINE ——TF——

SOIL TYPE HcB

CUT LINE ------C------

FILL LINE ——F——

SOIL TYPE LINE

ROCK SLOPE

LIMIT OF WORK
STA 591+50.00
SEG 0540 OFFSET 3134
SR 0011 SEC 095
SOUTHAMPTON TOWNSHIP
SHIPPENSBURG BOROUGH
FRANKLIN COUNTY

START WORK
STA 592+36.00
SEG 0540 OFFSET 3220
SR 0011 SEC 095

UhB

Uu

PARK PLACE

PI STA 591+26.12

STA 592+36.00
BEGIN MILL & OVERLAY

EASTERLY 120'

S49°41'28"W 150'

N49°04'46"E

SR 0011 (WEST KING STREET)

SR 0011 SURVEY & CONSTR ℄

591 592 593 594 595

NPDES

POI-1

RIM 710.86 SSMH
RIM 711.00
SSMH

RIM 708.59 SSMH

RIM 706.94 SSMH

SSCO (TYP)

CONC SIDEWALK

GRASS

MAC

CONC

SDMH

LEGAL RIGHT-OF-WAY LINE

LEGAL RIGHT-OF-WAY LINE

1 STO
STUCC

CONC SIDEWAL

SEE SHEET 14

STAGE 2

0 25 50 FEET

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
ENGINEER
No.PE080624

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	14 OF 15
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

LEGEND

ROCK CONSTRUCTION ENTRANCE
ROLLED EROSION CONTROL PRODUCT
SEEDING RESTORATION
TEMPORARY ACCESS ROAD
STAGING & STOCKPILE AREA
WORK AREA

COMPOST FILTER SOCK —CFS (XX)—
LIMIT OF DISTURBANCE / NPDES BOUNDARY — LOD — NPDES -
INLET FILTER BAG
CONCRETE WASHOUT FACILITY
TEMPORARY PROTECTIVE FENCE, ORANGE -X———X-

TEMPORARY CUT LINE -------TC--------
TEMPORARY FILL LINE ———TF———
SOIL TYPE HcB
CUT LINE --------C--------
FILL LINE ———F———
SOIL TYPE LINE
ROCK SLOPE

CONSTR & TEMPORARY ACCESS ROAD 1
CONSTR & TEMPORARY ACCESS ROAD 2
TEMPORARY CONSTRUCTION EASEMENT
16' CRASH GATE
CONCRETE WASHOUT FACILITY
NOT IN USE NO#
LEGAL RIGHT-OF-WAY LINE
LEGAL SLOPE EASEMENT LINE
TEMPORARY CONSTRUCTION EASEMENT
STA 599+75.00 BEGIN FULL DEPTH PAVEMENT RECONSTRUCTION END MILL & OVERLAY
SURVEY & CONSTR & SR 0011
N49°04'46"E
SHIPPENSBURG BOROUGH
SOUTHAMPTON TOWNSHIP
NORFOLK SOUTHERN RAILWAY COMPANY
ICKES AVENUE
SR 0011 (WEST KING STREET)
4" PVC
4" COATED STEEL
8" WATER (QL-C)
POI-3
POI-4
UhB
Uu
HcB
SEE SHEET 13
SEE SHEET 15

STAGE 2

0 25 50 FEET

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
ENGINEER
No. PE080624

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	15 OF 15
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

ROCK CONSTRUCTION ENTRANCE

ROLLED EROSION CONTROL PRODUCT

SEEDING RESTORATION

TEMPORARY ACCESS ROAD

STAGING & STOCKPILE AREA

WORK AREA

LEGEND

COMPOST FILTER SOCK —CFS (XX)—

LIMIT OF DISTURBANCE / NPDES BOUNDARY —LOD —NPDES -

INLET FILTER BAG

CONCRETE WASHOUT FACILITY

TEMPORARY PROTECTIVE FENCE, ORANGE —X———X—

TEMPORARY CUT LINE -------TC--------

TEMPORARY FILL LINE ——— TF ———

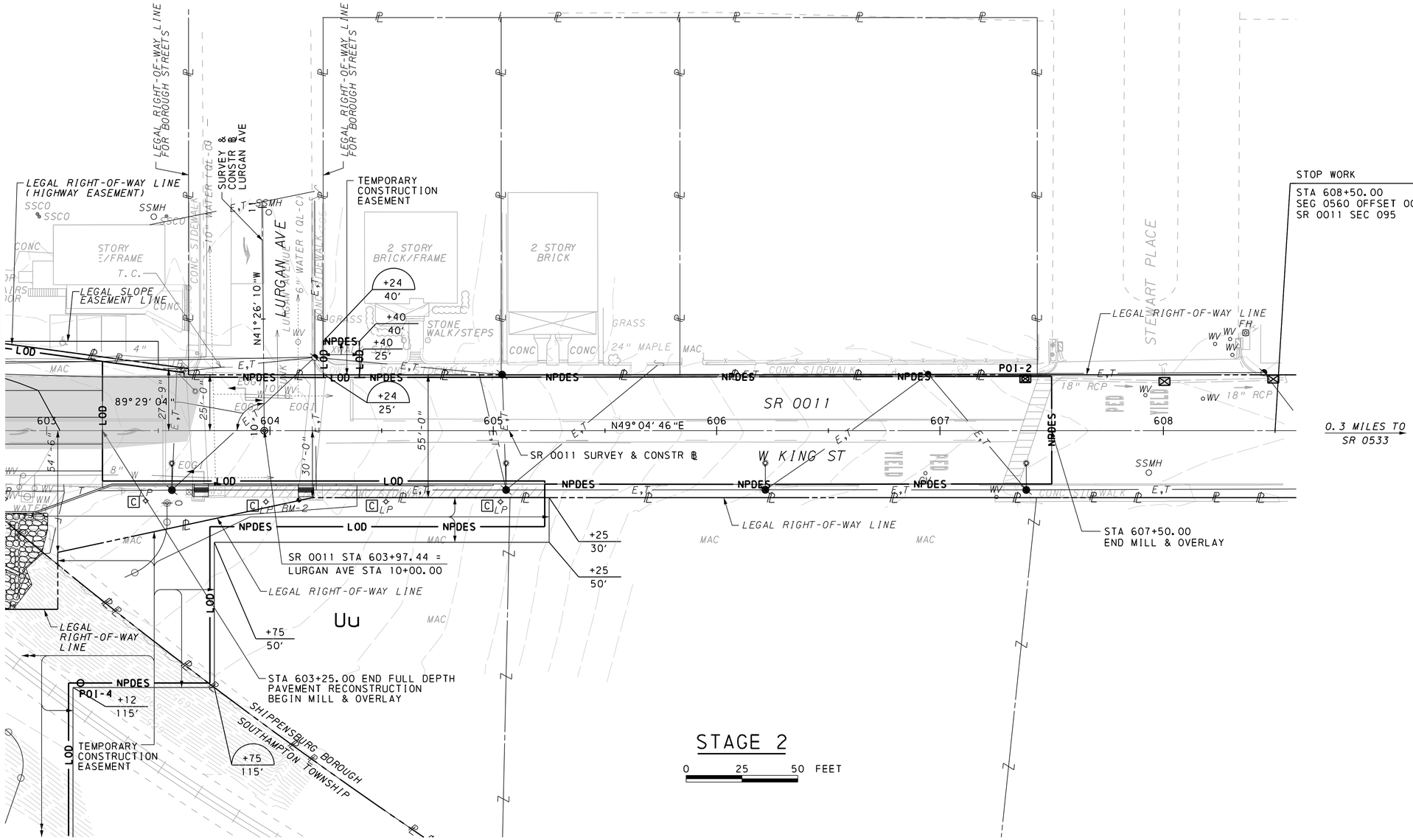
SOIL TYPE HcB

CUT LINE --------C--------

FILL LINE ——— F ———

SOIL TYPE LINE

ROCK SLOPE



STOP WORK
STA 608+50.00
SEG 0560 OFFSET 0061
SR 0011 SEC 095

LIMIT OF WORK
STA 609+00.00
SEG 0560 OFFSET 0111
SR 0011 SEC 095
SHIPPENSBURG BOROUGH
FRANKLIN COUNTY

STAGE 2

0 25 50 FEET

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
ENGINEER
No. PE080624

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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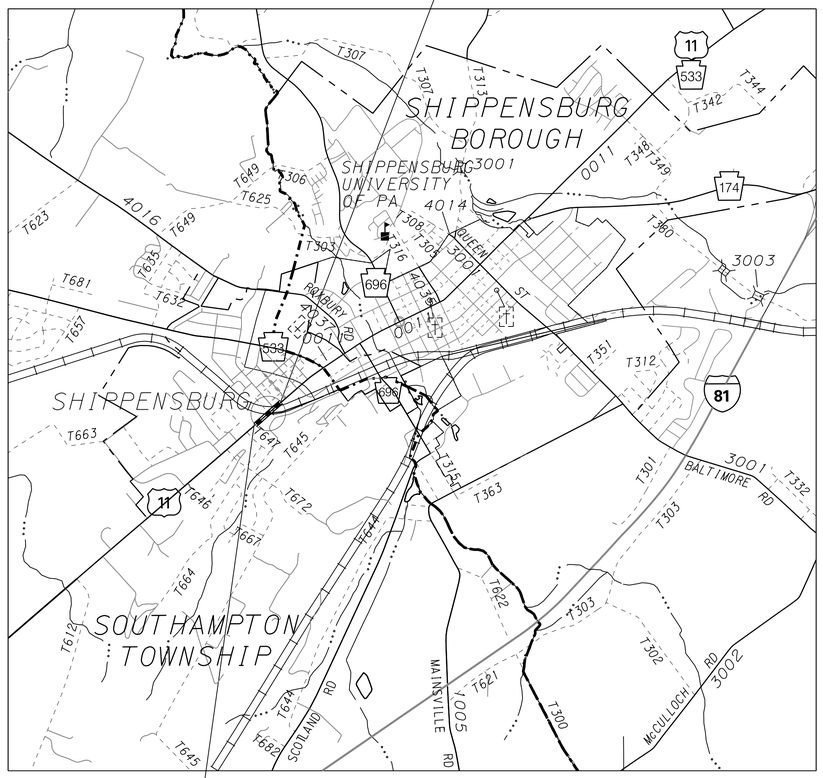
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	1 OF 8
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

LIMIT OF WORK

STA 609+00.00
SEG 0560 OFFSET 0111
SR 0011 SEC 095
SHIPPENSBURG BOROUGH
FRANKLIN COUNTY



LIMIT OF WORK

STA 591+50.00
SEG 0540 OFFSET 3134
SR 0011 SEC 095
SOUTHAMPTON TOWNSHIP
SHIPPENSBURG BOROUGH
FRANKLIN COUNTY

LOCATION MAP

0 0.5 1
SCALE IN MILES

SHEET INDEX

DESCRIPTION	SHEET
TITLE SHEET, LOCATION MAP, LEGEND, GENERAL NOTES	1
INDEX MAP	2
SEEDING AND SOIL INFORMATION	3
PLAN SHEETS	4-8

GENERAL SEQUENCE OF CONSTRUCTION

STAGE 1

1. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPS. SEE EROSION AND SEDIMENT POLLUTION CONTROL PLAN.
2. BEGIN CLEARING AND GRUBBING OPERATIONS. REMOVE TOPSOIL AND STOCKPILE.
3. REMOVE EXISTING WALL IN NORTHEAST QUADRANT.
4. PERFORM SR 0011 EMBANKMENT LAYBACK EXCAVATION.
5. PERFORM STRUCTURE WORK.
6. IMMEDIATELY SEED, MULCH, AND APPLY ROLLED EROSION CONTROL PRODUCTS TO ALL DISTURBED AREAS THAT ARE AT FINAL GRADE WITH PERMANENT SEED.
7. REMOVE EROSION AND SEDIMENTATION CONTROL BMPS ONCE FINAL STABILIZATION HAS BEEN ACHIEVED OVER THE ENTIRE SITE.

STAGE 2

1. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPS. SEE EROSION AND SEDIMENT POLLUTION CONTROL PLAN.
2. BEGIN CLEARING AND GRUBBING OPERATIONS. REMOVE TOPSOIL AND STOCKPILE.
3. PERFORM SR 0011 EMBANKMENT LAYBACK EXCAVATION.
4. PERFORM STRUCTURE WORK.
5. IMMEDIATELY SEED, MULCH, AND APPLY ROLLED EROSION CONTROL PRODUCTS TO ALL DISTURBED AREAS THAT ARE AT FINAL GRADE WITH PERMANENT SEED.
6. REMOVE EROSION AND SEDIMENTATION CONTROL BMPS ONCE FINAL STABILIZATION HAS BEEN ACHIEVED OVER THE ENTIRE SITE.

GENERAL NOTES

DURING THE LISTED CRITICAL STAGE OF BMP INSTALLATION, A LICENSED PROFESSIONAL ENGINEER OR DESIGNEE SHALL BE PRESENT ON THE PROJECT SITE.

1. FINAL STABILIZATION OF PCSM MEASURES.

ANTICIPATED CONSTRUCTION WASTE

PROJECT CONSTRUCTION WASTES INCLUDE EXCAVATED AND MILLED ASPHALT MATERIALS, EXCAVATED DRAINAGE STRUCTURES, USED PUMPED WATER FILTER BAGS, CONCRETE WASH WATER AND ANY OTHER BUILDING MATERIALS NOT USED IN THE PROJECT.

INSTRUCTION FOR PROPER RECYCLING/DISPOSAL

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.

GEOLOGIC FORMATIONS AND SOIL CONDITIONS

FOR SOIL CLASSIFICATIONS FOR THE SITE, SEE SHEET 3.

LONG TERM OPERATION AND MAINTENANCE

THERE ARE NO LONG TERM STRUCTURAL BMPS ON THE PROJECT SITE. HOWEVER, PROJECT BMPS IN THIS PLAN WILL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH PADEP REQUIREMENTS. CONSISTENT WITH 25 PA CODE CHAPTER 102, THE POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN CONSISTS OF FULL-SIZE CONSTRUCTION DRAWINGS, A NARRATIVE, AND PCSM MODULE 2. DESCRIPTIONS OF THE INSPECTION AND MAINTENANCE REQUIREMENTS FOR EACH BMP TYPE ARE ATTACHED TO PCSM MODULE 2.

LEGEND

PROJECT
STATE HIGHWAY
TOWNSHIP ROAD
MUNICIPAL BOUNDARY
COUNTY LINE
STREAM
RAILROAD

SOIL TYPE — HcB
CUT LINE — C —
FILL LINE — F —
SOIL TYPE LINE
LIMIT OF DISTURBANCE / NPDES BOUNDARY — LOD — NPDES -
ROCK SLOPE
SEEDING RESTORATION

CALL BEFORE YOU DIG

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN PHASE - STOP CALL 1-800-242-1776
WWW.PAONECALL.ORG

PA ONE CALL SYSTEM, INC.

SOUTHAMPTON TOWNSHIP
SERIAL NO. 2018-166-2878

SHIPPENSBURG BOROUGH
SERIAL NO. 2018-166-2878

PLAN PREPARER

JASON GALLI
STV INCORPORATED
2040 LINGLESTOWN ROAD, SUITE 104
HARRISBURG, PA 17110
PHONE: 717-545-1706

PROJECT CONTACTS

FRANKLIN COUNTY CONSERVATION DISTRICT
185 FRANKLIN FARM LANE
CHAMBERSBURG, PA 17202
(717) 264-5499

SOUTHCENTRAL REGIONAL OFFICE
PENNSYLVANIA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
909 ELMERTON AVENUE
HARRISBURG, PA 17110
PHONE: (717) 705-4700

HEIDI MERTZ
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
ENGINEERING DISTRICT 8-0
2140 HERR STREET
HARRISBURG, PA 17103
PHONE: (717) 787-3324

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

PLANS PREPARED BY
STV Incorporated
CONSULTING ENGINEERS
HARRISBURG, PA

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — JASON ANGELO GALLI — ENGINEER — PE080624

DATE: 6/27/2024

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	2 OF 8
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

LIMIT OF WORK
STA 591+50.00
SEG 0540 OFFSET 3134
SR 0011 SEC 095
SOUTHAMPTON TOWNSHIP
SHIPPENSBURG BOROUGH
FRANKLIN COUNTY

START WORK
STA 592+36.00
SEG 0540 OFFSET 3220
SR 0011 SEC 095

SURVEY & CONSTR ℄ ACCESS ROAD 1

SURVEY & CONSTR ℄ ACCESS ROAD 2

SURVEY & CONSTR ℄ SR 0011

SURVEY & CONSTR ℄ ACCESS ROAD 3

SURVEY & CONSTR ℄ ACCESS ROAD 4

SR 0011 STA 603+97.44 = LURGAN AVE STA 10+00.00

NORFOLK SOUTHERN RAILWAY COMPANY

PICKES AVE

LURGAN AVE

SHIPPENSBURG BOROUGH

SOUTHAMPTON TOWNSHIP

SR 0011

W KING ST

5.2 MILES TO SR 0997

0.3 MILES TO SR 0533

STOP WORK
STA 608+50.00
SEG 0560 OFFSET 0061
SR 0011 SEC 095

LIMIT OF WORK
STA 609+00.00
SEG 0560 OFFSET 0111
SR 0011 SEC 095
SHIPPENSBURG BOROUGH
FRANKLIN COUNTY

593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609

INDEX MAP

0 60 120 FEET

LEGEND

- PCSM PLAN SHEET NUMBER
- SHEET BREAKS
- NPDES/LOD BOUNDARIES
- NPDES BOUNDARIES

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
ENGINEER
No. PE080624

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	3 OF 8
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

SOIL TYPE DESCRIPTIONS

CsA - THE CLARKSBURG COMPONENT MAKES UP 95 PERCENT OF THE MAP UNIT. SLOPES ARE 0 TO 3 PERCENT. THIS COMPONENT IS ON LIMESTONE VALLEY FLATS, UPLANDS. THE PARENT MATERIAL CONSISTS OF RESIDUUM WEATHERED FROM LIMESTONE. DEPTH TO A ROOT RESTRICTIVE LAYER, FRAGIPAN, IS 20 TO 36 INCHES. THE NATURAL DRAINAGE CLASS IS MODERATELY WELL DRAINED. WATER MOVEMENT IN THE MOST RESTRICTIVE LAYER IS MODERATELY LOW. AVAILABLE WATER TO A DEPTH OF 60 INCHES (OR RESTRICTED DEPTH) IS MODERATE. SHRINK-SWELL POTENTIAL IS MODERATE. THIS SOIL IS NOT FLOODED. IT IS NOT PONDED. A SEASONAL ZONE OF WATER SATURATION IS AT 27 INCHES DURING JANUARY, FEBRUARY, MARCH, NOVEMBER, DECEMBER. ORGANIC MATTER CONTENT IN THE SURFACE HORIZON IS ABOUT 2 PERCENT. NONIRRIGATED LAND CAPABILITY CLASSIFICATION IS 2W. THIS SOIL DOES NOT MEET HYDRIC CRITERIA.

HcB - THE HAGERSTOWN COMPONENT MAKES UP 65 PERCENT OF THE MAP UNIT. SLOPES ARE 3 TO 8 PERCENT. THIS COMPONENT IS ON LOW SLOPING RIDGES, VALLEY FLOORS. THE PARENT MATERIAL CONSISTS OF RESIDUUM WEATHERED FROM LIMESTONE. DEPTH TO A ROOT RESTRICTIVE LAYER, BEDROCK, LITHIC, IS 60 TO 80 INCHES. THE NATURAL DRAINAGE CLASS IS WELL DRAINED. WATER MOVEMENT IN THE MOST RESTRICTIVE LAYER IS MODERATELY HIGH. AVAILABLE WATER TO A DEPTH OF 60 INCHES (OR RESTRICTED DEPTH) IS HIGH. SHRINK-SWELL POTENTIAL IS MODERATE. THIS SOIL IS NOT FLOODED. IT IS NOT PONDED. THERE IS NO ZONE OF WATER SATURATION WITHIN A DEPTH OF 72 INCHES. ORGANIC MATTER CONTENT IN THE SURFACE HORIZON IS ABOUT 3 PERCENT. NONIRRIGATED LAND CAPABILITY CLASSIFICATION IS 2E. THIS SOIL DOES NOT MEET HYDRIC CRITERIA.

THE CARBO COMPONENT MAKES UP 20 PERCENT OF THE MAP UNIT. SLOPES ARE 3 TO 8 PERCENT. THIS COMPONENT IS ON RIDGES, VALLEYS. THE PARENT MATERIAL CONSISTS OF RESIDUUM WEATHERED FROM LIMESTONE. DEPTH TO A ROOT RESTRICTIVE LAYER, BEDROCK, LITHIC, IS 20 TO 40 INCHES. THE NATURAL DRAINAGE CLASS IS WELL DRAINED. WATER MOVEMENT IN THE MOST RESTRICTIVE LAYER IS MODERATELY LOW. AVAILABLE WATER TO A DEPTH OF 60 INCHES (OR RESTRICTED DEPTH) IS LOW. SHRINK-SWELL POTENTIAL IS HIGH. THIS SOIL IS NOT FLOODED. IT IS NOT PONDED. THERE IS NO ZONE OF WATER SATURATION WITHIN A DEPTH OF 72 INCHES. ORGANIC MATTER CONTENT IN THE SURFACE HORIZON IS ABOUT 2 PERCENT. NONIRRIGATED LAND CAPABILITY CLASSIFICATION IS 2E. THIS SOIL DOES NOT MEET HYDRIC CRITERIA.

HcC - THE HAGERSTOWN COMPONENT MAKES UP 60 PERCENT OF THE MAP UNIT. SLOPES ARE 8 TO 15 PERCENT. THIS COMPONENT IS ON LOW SLOPING RIDGES, VALLEY FLOORS. THE PARENT MATERIAL CONSISTS OF RESIDUUM WEATHERED FROM LIMESTONE. DEPTH TO A ROOT RESTRICTIVE LAYER, BEDROCK, LITHIC, IS 60 TO 80 INCHES. THE NATURAL DRAINAGE CLASS IS WELL DRAINED. WATER MOVEMENT IN THE MOST RESTRICTIVE LAYER IS MODERATELY HIGH. AVAILABLE WATER TO A DEPTH OF 60 INCHES (OR RESTRICTED DEPTH) IS HIGH. SHRINK-SWELL POTENTIAL IS MODERATE. THIS SOIL IS NOT FLOODED. IT IS NOT PONDED. THERE IS NO ZONE OF WATER SATURATION WITHIN A DEPTH OF 72 INCHES. ORGANIC MATTER CONTENT IN THE SURFACE HORIZON IS ABOUT 3 PERCENT. NONIRRIGATED LAND CAPABILITY CLASSIFICATION IS 4E. THIS SOIL DOES NOT MEET HYDRIC CRITERIA.

THE CARBO COMPONENT MAKES UP 25 PERCENT OF THE MAP UNIT. SLOPES ARE 8 TO 15 PERCENT. THIS COMPONENT IS ON RIDGES, VALLEYS. THE PARENT MATERIAL CONSISTS OF RESIDUUM WEATHERED FROM LIMESTONE. DEPTH TO A ROOT RESTRICTIVE LAYER, BEDROCK, LITHIC, IS 20 TO 40 INCHES. THE NATURAL DRAINAGE CLASS IS WELL DRAINED. WATER MOVEMENT IN THE MOST RESTRICTIVE LAYER IS MODERATELY LOW. AVAILABLE WATER TO A DEPTH OF 60 INCHES (OR RESTRICTED DEPTH) IS LOW. SHRINK-SWELL POTENTIAL IS HIGH. THIS SOIL IS NOT FLOODED. IT IS NOT PONDED. THERE IS NO ZONE OF WATER SATURATION WITHIN A DEPTH OF 72 INCHES. ORGANIC MATTER CONTENT IN THE SURFACE HORIZON IS ABOUT 2 PERCENT. NONIRRIGATED LAND CAPABILITY CLASSIFICATION IS 4E. THIS SOIL DOES NOT MEET HYDRIC CRITERIA.

RyB - THE RYDER COMPONENT MAKES UP 46 PERCENT OF THE MAP UNIT. SLOPES ARE 3 TO 8 PERCENT. THIS COMPONENT IS ON HILLS, LIMESTONE VALLEYS. THE PARENT MATERIAL CONSISTS OF RESIDUUM WEATHERED FROM SHALY LIMESTONE. DEPTH TO A ROOT RESTRICTIVE LAYER, BEDROCK, LITHIC, IS 20 TO 40 INCHES. THE NATURAL DRAINAGE CLASS IS WELL DRAINED. WATER MOVEMENT IN THE MOST RESTRICTIVE LAYER IS MODERATELY LOW. AVAILABLE WATER TO A DEPTH OF 60 INCHES (OR RESTRICTED DEPTH) IS LOW. SHRINK-SWELL POTENTIAL IS LOW. THIS SOIL IS NOT FLOODED. IT IS NOT PONDED. THERE IS NO ZONE OF WATER SATURATION WITHIN A DEPTH OF 72 INCHES. ORGANIC MATTER CONTENT IN THE SURFACE HORIZON IS ABOUT 2 PERCENT. NONIRRIGATED LAND CAPABILITY CLASSIFICATION IS 2E. THIS SOIL DOES NOT MEET HYDRIC CRITERIA.

THE NOLLVILLE COMPONENT MAKES UP 44 PERCENT OF THE MAP UNIT. SLOPES ARE 3 TO 8 PERCENT. THIS COMPONENT IS ON LOW RELIEF RIDGES, UPLANDS. THE PARENT MATERIAL CONSISTS OF RESIDUUM WEATHERED FROM ARGILLACEOUS LIMESTONE AND CALCAREOUS SHALE. DEPTH TO A ROOT RESTRICTIVE LAYER, BEDROCK, LITHIC, IS 40 TO 60 INCHES. THE NATURAL DRAINAGE CLASS IS WELL DRAINED. WATER MOVEMENT IN THE MOST RESTRICTIVE LAYER IS MODERATELY LOW. AVAILABLE WATER TO A DEPTH OF 60 INCHES (OR RESTRICTED DEPTH) IS MODERATE. SHRINK-SWELL POTENTIAL IS MODERATE. THIS SOIL IS NOT FLOODED. IT IS NOT PONDED. THERE IS NO ZONE OF WATER SATURATION WITHIN A DEPTH OF 72 INCHES. ORGANIC MATTER CONTENT IN THE SURFACE HORIZON IS ABOUT 3 PERCENT. NONIRRIGATED LAND CAPABILITY CLASSIFICATION IS 2E. THIS SOIL DOES NOT MEET HYDRIC CRITERIA.

UhB - THE URBAN LAND COMPONENT MAKES UP 65 PERCENT OF THE MAP UNIT.

THE HAGERSTOWN COMPONENT MAKES UP 25 PERCENT OF THE MAP UNIT. SLOPES ARE 0 TO 8 PERCENT. THIS COMPONENT IS ON LOW SLOPING RIDGES, VALLEY FLOORS. THE PARENT MATERIAL CONSISTS OF RESIDUUM WEATHERED FROM LIMESTONE. DEPTH TO A ROOT RESTRICTIVE LAYER, BEDROCK, LITHIC, IS 60 TO 80 INCHES. THE NATURAL DRAINAGE CLASS IS WELL DRAINED. WATER MOVEMENT IN THE MOST RESTRICTIVE LAYER IS MODERATELY HIGH. AVAILABLE WATER TO A DEPTH OF 60 INCHES (OR RESTRICTED DEPTH) IS HIGH. SHRINK-SWELL POTENTIAL IS MODERATE. THIS SOIL IS NOT FLOODED. IT IS NOT PONDED. THERE IS NO ZONE OF WATER SATURATION WITHIN A DEPTH OF 72 INCHES. ORGANIC MATTER CONTENT IN THE SURFACE HORIZON IS ABOUT 3 PERCENT. NONIRRIGATED LAND CAPABILITY CLASSIFICATION IS 2E. THIS SOIL DOES NOT MEET HYDRIC CRITERIA

Uu - THE URBAN LAND COMPONENT MAKES UP 46 PERCENT OF THE MAP UNIT.

THE UDORTHENTS COMPONENT MAKES UP 44 PERCENT OF THE MAP UNIT. SLOPES ARE 0 TO 25 PERCENT. THIS COMPONENT IS ON FILLS. THE PARENT MATERIAL CONSISTS OF MAN MADE AND ALTERED MATERIALS FROM MIXED ROCK TYPES. DEPTH TO A ROOT RESTRICTIVE LAYER, , IS 0 TO 10 INCHES. THE NATURAL DRAINAGE CLASS IS WELL DRAINED. WATER MOVEMENT IN THE MOST RESTRICTIVE LAYER IS MODERATELY HIGH. AVAILABLE WATER TO A DEPTH OF 60 INCHES (OR RESTRICTED DEPTH) IS HIGH. SHRINK-SWELL POTENTIAL IS LOW. THIS SOIL IS NOT FLOODED. IT IS NOT PONDED. THERE IS NO ZONE OF WATER SATURATION WITHIN A DEPTH OF 72 INCHES. ORGANIC MATTER CONTENT IN THE SURFACE HORIZON IS ABOUT 0 PERCENT. THIS SOIL DOES NOT MEET HYDRIC CRITERIA.

SOILS LEGEND

SYMBOL	SOIL NAME	SLOPES (%)	DEPTH TO BEDROCK	ERODIBILITY	pH	DEPTH TO SEASONAL HIGH WATER TABLE (IN)	RISK OF CORROSION		FROST ACTION	HYDROLOGIC SOIL GROUP
							UNCOATED STEEL	CONCRETE		
CsA	CLARKSBURG SILT LOAM	0 TO 3	20 - 36 IN.	SLIGHT	5.1-6.5	18 - 36 IN.	HIGH	MODERATE	MODERATE	C
HcB	HAGERSTOWN-CARBO SILTY CLAY LOAMS	3 TO 8	60 - 80 IN.	MODERATE	4.5-7.8	> 80 IN.	HIGH	MODERATE	MODERATE	B/D
HcC	HAGERSTOWN-CARBO SILTY CLAY LOAMS	8 TO 15	60 - 80 IN.	SEVERE	4.5-7.8	> 80 IN.	HIGH	MODERATE	MODERATE	B/D
RyB	RYDER-NOLLVILLE CHANNERY SILT LOAMS	3 TO 8	20 - 40 IN.	MODERATE	5.1-7.8	> 80 IN.	MODERATE	LOW	MODERATE	B
UhB	URBAN LAND-HAGERSTOWN COMPLEX	0 TO 8	60 - 80 IN.	MODERATE	4.5-7.3	> 80 IN.	HIGH	MODERATE	MODERATE	B
Uu	URBAN LAND-UDORTHENTS COMPLEX	0 TO 25	0 - 10 IN.	MODERATE	5.1-7.3	> 80 IN.	MODERATE	LOW	-	B

SOILS ENGINEERING PROPERTIES (LIMITATIONS)

SOIL SYMBOL	SOIL SERIES	PERMEABILITY	HYDRIC SOIL	LIMITATIONS BY USE					RESOLUTIONS
				TOPSOIL	EMBANKMENT (ROAD FILL)	SHALLOW EXCAVATIONS	LOCAL ROADS AND STREETS	WATER MANAGEMENT PONDS	
CsA	CLARKSBURG SILT LOAM, 0 TO 3 PERCENT SLOPES	SLOW	NO	FAIR	POOR	VERY LIMITED	VERY LIMITED	SOMEWHAT LIMITED	PROVIDE IMMEDIATE STABILIZATION AFTER CUT EXCAVATION; APPLY ROLLED EROSION CONTROL PRODUCT TO EMBANKMENTS
HcB	HAGERSTOWN-CARBO SILTY CLAY LOAMS, 3 TO 8 PERCENT SLOPES	MODERATE	NO	POOR	POOR	SOMEWHAT LIMITED	VERY LIMITED	SOMEWHAT LIMITED	PROVIDE IMMEDIATE STABILIZATION AFTER CUT EXCAVATION; APPLY ROLLED EROSION CONTROL PRODUCT TO EMBANKMENTS
HcC	HAGERSTOWN-CARBO SILTY CLAY LOAMS, 8 TO 15 PERCENT SLOPES	MODERATE	NO	POOR	POOR	SOMEWHAT LIMITED	VERY LIMITED	VERY LIMITED	PROVIDE IMMEDIATE STABILIZATION AFTER CUT EXCAVATION; APPLY ROLLED EROSION CONTROL PRODUCT TO EMBANKMENTS
RyB	RYDER-NOLLVILLE CHANNERY SILT LOAMS, 3 TO 8 PERCENT SLOPES	MODERATE	NO	POOR	POOR	VERY LIMITED	SOMEWHAT LIMITED	VERY LIMITED	PROVIDE IMMEDIATE STABILIZATION AFTER CUT EXCAVATION; APPLY ROLLED EROSION CONTROL PRODUCT TO EMBANKMENTS
UhB	URBAN LAND-HAGERSTOWN COMPLEX, 0 TO 8 PERCENT SLOPES	VERY SLOW	NO	N/A	N/A	N/A	N/A	N/A	PROVIDE IMMEDIATE STABILIZATION AFTER CUT EXCAVATION; APPLY ROLLED EROSION CONTROL PRODUCT TO EMBANKMENTS
Uu	URBAN LAND-UDORTHENTS COMPLEX, 0 TO 25 PERCENT SLOPES	VERY SLOW	NO	N/A	N/A	N/A	N/A	N/A	PROVIDE IMMEDIATE STABILIZATION AFTER CUT EXCAVATION; APPLY ROLLED EROSION CONTROL PRODUCT TO EMBANKMENTS

PERMANENT SEEDING SPECIFICATIONS

FORMULA B RESIDENTIAL MIX
SPECIES: PERENNIAL RYEGRASS/CREEPING
RED FESCUE OR CHEWINGS FESCUE/KENTUCKY BLUEGRASS
% PURE LIVE SEED: SEE PENNDOT PUB 408 SECTION 804.2
APPLICATION RATE 210 LB/AC
FERTILIZER TYPE: 38-0-0
FERTILIZER RATE: 242 LB/AC
LIME RATE: 3872 LB/AC
LIME RATE: 1.9 T/AC
MULCH TYPE: STRAW
MULCHING RATE: 3 T/AC
ANCHORING MATERIAL: MULCH BINDER
ANCHORING METHOD: SEE PENNDOT PUB 408 SECTION 805.3
ANCHORING RATE: SEE PENNDOT PUB 408 SECTION 805.3
SEEDING SEASON: MARCH 15 TO JUNE 1
AUGUST 1 TO OCTOBER 15

FORMULA L CLEAR ZONE MIX
SPECIES: HARD FESCUE, CREEPING RED FESCUE AND ANNUAL RYEGRASS
% PURE LIVE SEED: SEE PENNDOT PUB 408 SECTION 804.2
APPLICATION RATE 232.3 LB/AC
FERTILIZER TYPE: 38-0-0
FERTILIZER RATE: 242 LB/AC
LIME RATE: 3872 LB/AC
LIME RATE: 1.9 T/AC
MULCH TYPE: STRAW
MULCHING RATE: 3 T/AC
ANCHORING MATERIAL: MULCH BINDER
ANCHORING METHOD: SEE PENNDOT PUB 408 SECTION 805.3
ANCHORING RATE: SEE PENNDOT PUB 408 SECTION 805.3
SEEDING SEASON: MARCH 15 TO JUNE 1
AUGUST 1 TO OCTOBER 15

FORMULA C CONSERVATION MIX
SPECIES:
- NURSERY CROPS:
  - OATS (AVENA SATIVA) (SPRING)
  - CEREAL RYE (SECALE CEREALE) (FALL)
- PERMANENT SPECIES:
  - LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)
  - SHOWY TICK-TREFOIL (DESMODIUM CANADENSE)
  - PARTRIDGE PEA (CHAMAECRISTA FASCICULATA (SYN: CASSIA FASCICULATA))
  - SMOOTH BLUE ASTER (SYMPHYOTRICHUM LAEVA)
  - BLACK-EYED SUSAN (RUDBECKIA HIRTA)
  - PURPLE TOP (TRIDENS FLAVUS)
  - BIG BLUESTEM (ANDROPOGON GERARDII)
  - CANADA WILDRYE (ELYMUS CANADENSIS)

% PURE LIVE SEED: SEE PENNDOT PUB 408 SECTION 804.2
APPLICATION RATE 60 LB/AC
FERTILIZER TYPE: N/A
FERTILIZER RATE: N/A
LIME RATE: N/A
MULCH TYPE: EROSION CONTROL MULCH BLANKET
MULCHING RATE: N/A
ANCHORING MATERIAL: N/A
ANCHORING METHOD: SEE PENNDOT PUB 408 SECTION 805.3
ANCHORING RATE: SEE PENNDOT PUB 408 SECTION 805.3
SEEDING SEASON: - NURSERY CROPS PORTION: ANYTIME
- NATIVE PORTION: OCTOBER 15 TO MAY 15

FORMULA T TEMPORARY GRASS MIX
SPECIES: OATS (AVENA SATIVA) (SPRING)
CEREAL RYE (SECALE CEREALE) (FALL)
% PURE LIVE SEED: SEE PENNDOT PUB 408 SECTION 804.2
APPLICATION RATE 30 LB/AC
FERTILIZER TYPE: 38-0-0
FERTILIZER RATE: 242 LB/AC
LIME RATE: 3872 LB/AC
LIME RATE: 1.9 T/AC
MULCH TYPE: STRAW
MULCHING RATE: 3 T/AC
ANCHORING MATERIAL: MULCH BINDER
ANCHORING METHOD: SEE PENNDOT PUB 408 SECTION 805.3
ANCHORING RATE: SEE PENNDOT PUB 408 SECTION 805.3
SEEDING SEASON: MARCH 15 TO JUNE 1
AUGUST 1 TO OCTOBER 15

SECTION 805 - MULCHING

1. PROPERLY MAINTAIN MULCHED AREAS UNTIL THE ENTIRE PROJECT HAS BEEN COMPLETED. PROMPTLY REAPPLY MULCH MATERIALS WHICH BECOME DISLODGED OR LOST DUE TO WIND, RAIN, OR OTHER CAUSES, AT INITIAL OR MODIFIED RATES, AS DIRECTED. AFTER MULCHING WORK ON A SLOPE HAS BEEN SATISFACTORILY COMPLETED, IF A SLOPE FAILURE OCCURS, ON WHICH REQUIRES REDRESSING, EXCAVATION OR THE ESTABLISHMENT OF A NEW SLOPE, REPLACE THE MULCH, AS DIRECTED.

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
JASON ANGELO GALLI
No. PE080624

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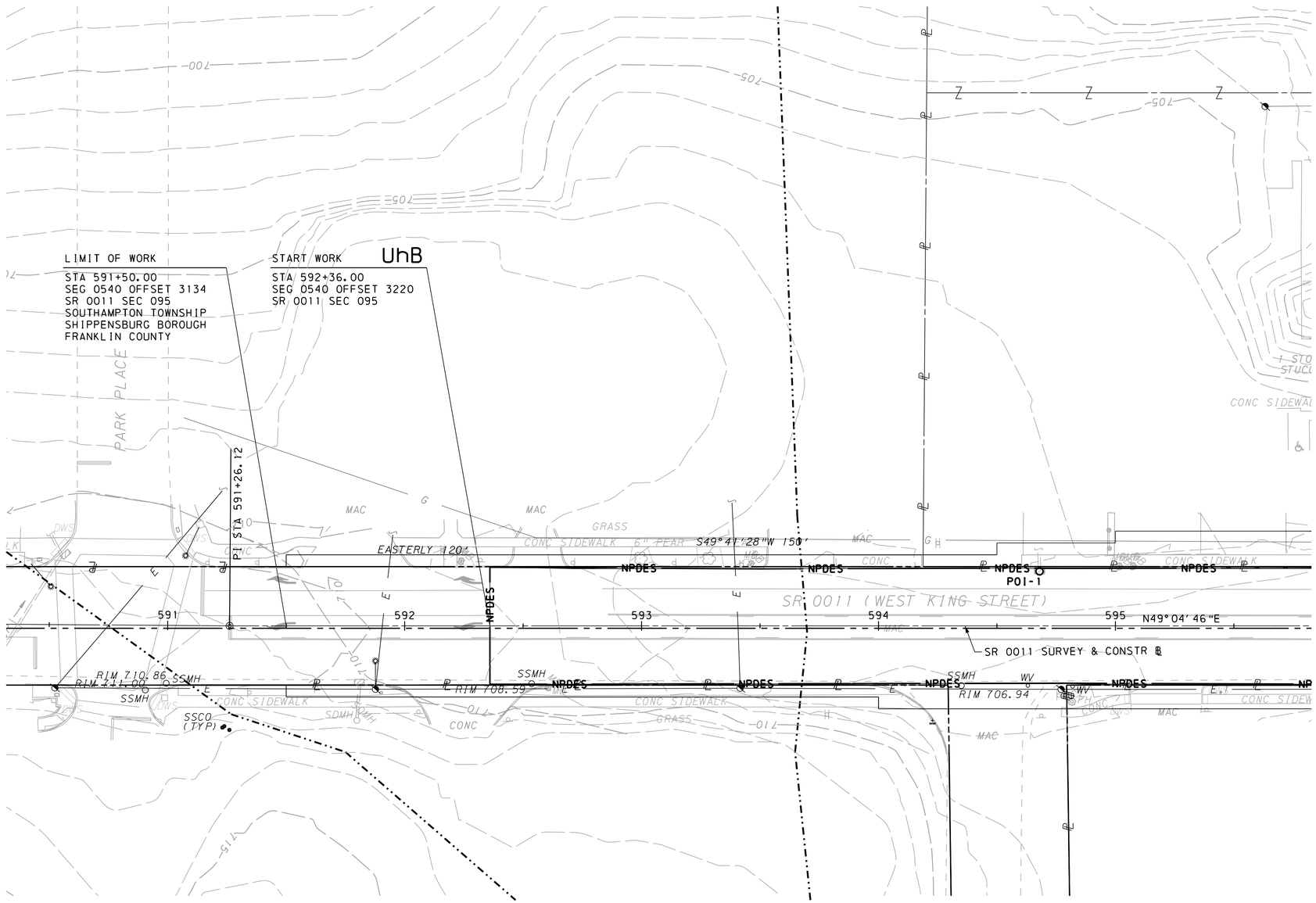
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	4 OF 8
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

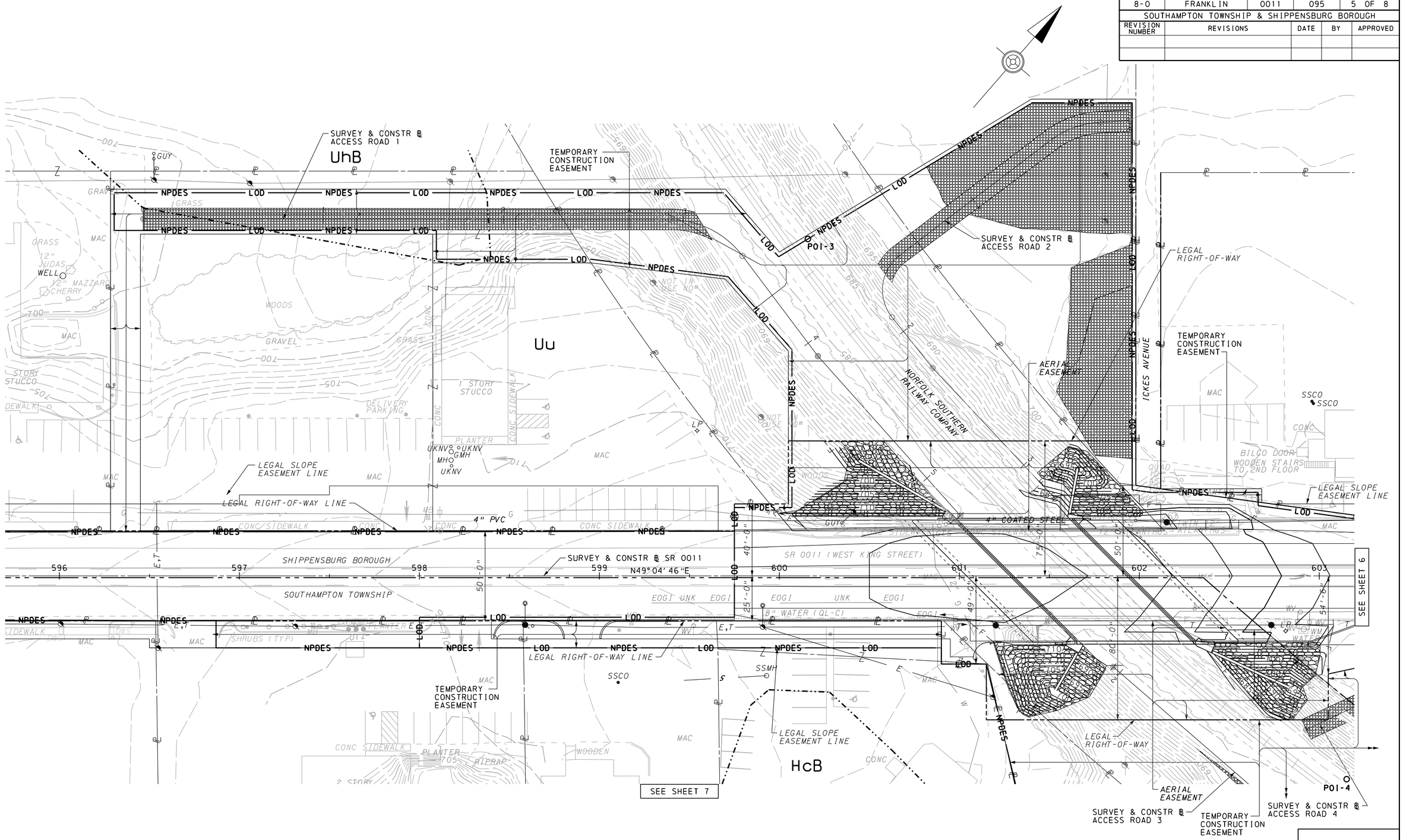


POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
ENGINEER
No. PE088624

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	5 OF 8
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON ANGELO GALLI
ENGINEER
No. PE080624

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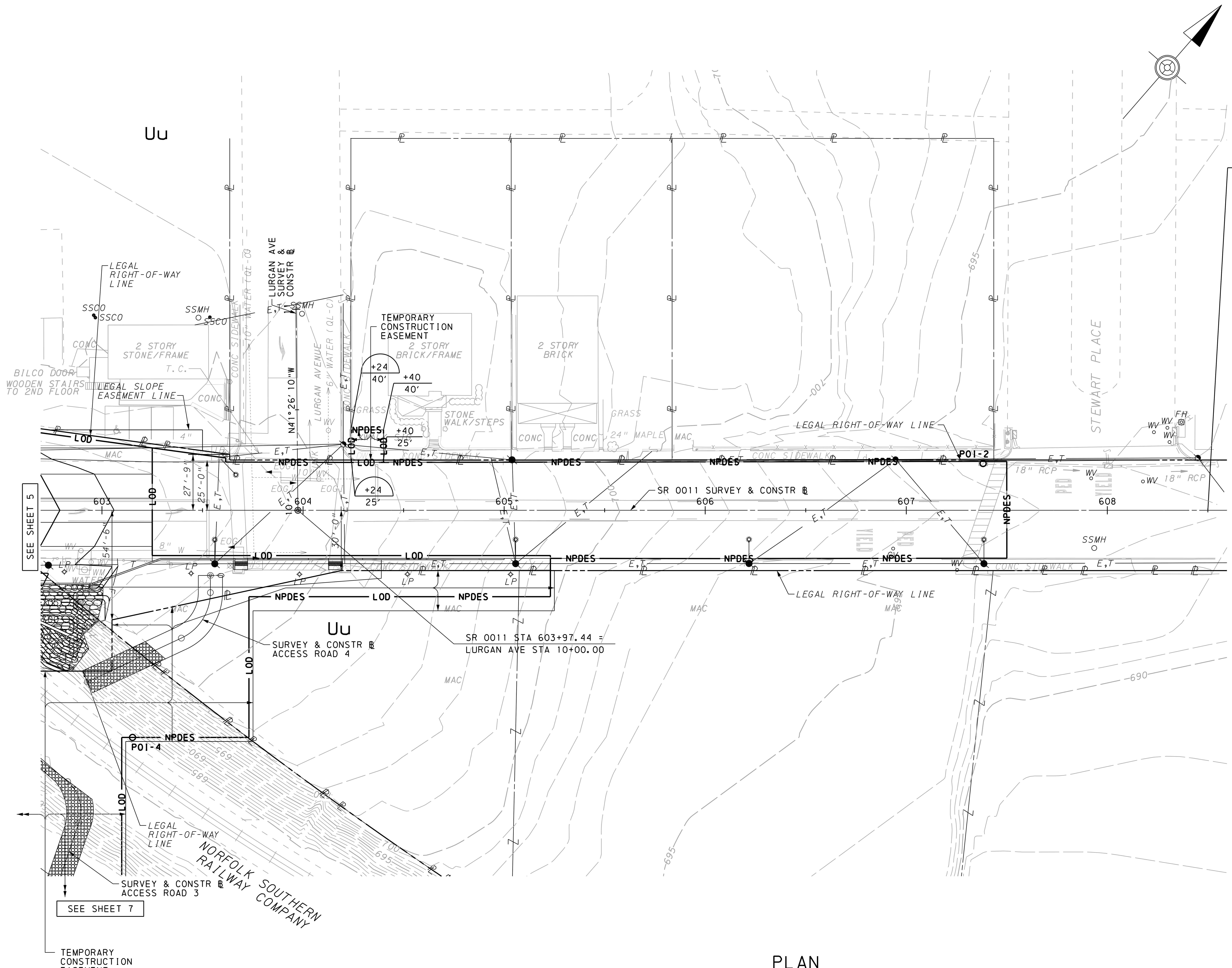
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	6 OF 8
SOUTHAMPTON TOWNSHIP & SHIPPENSBURG BOROUGH				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



PLAN

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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER JASON ANGELO GALLI No. PE080624

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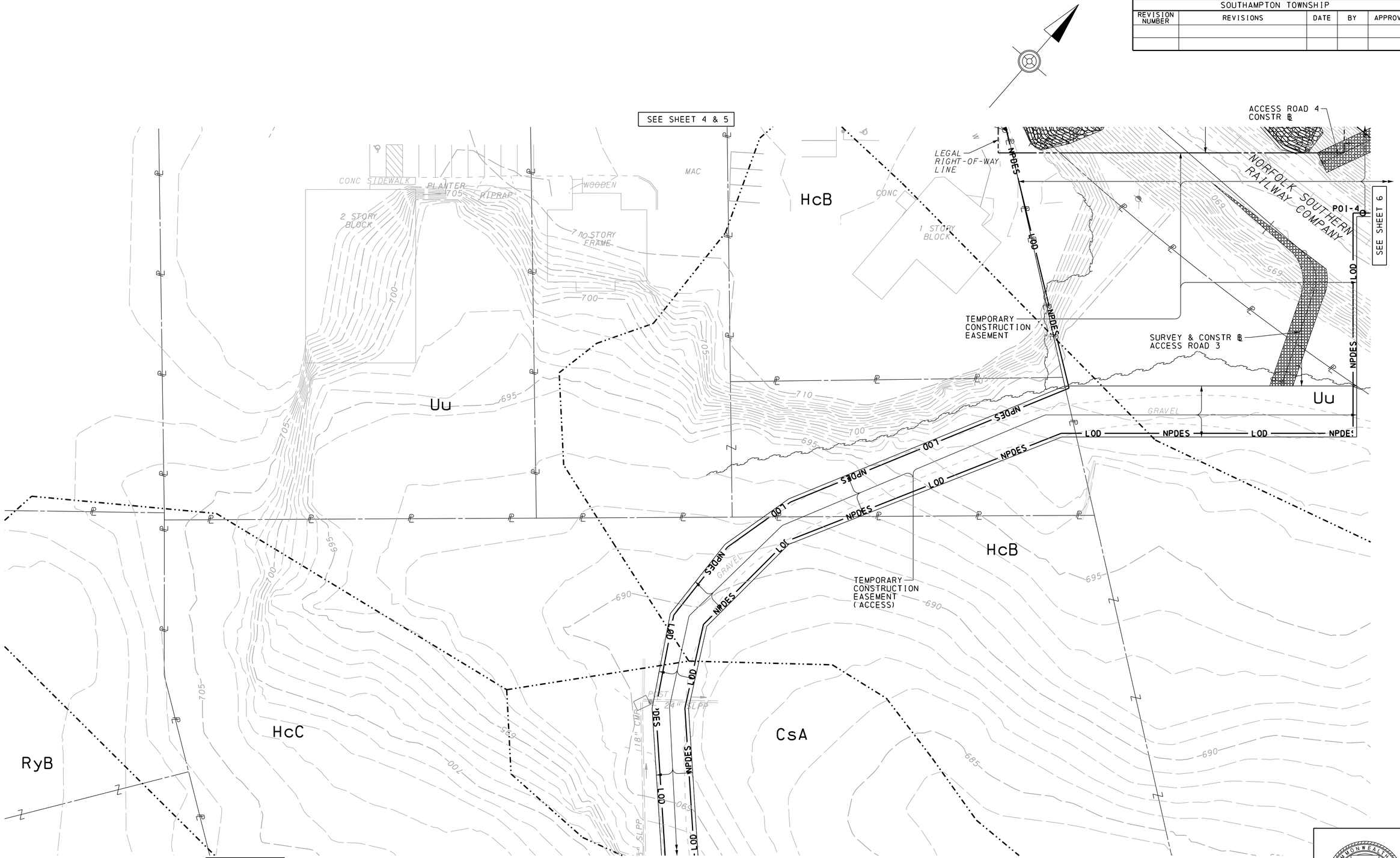
SOUTHAMPTON TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



PLAN

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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

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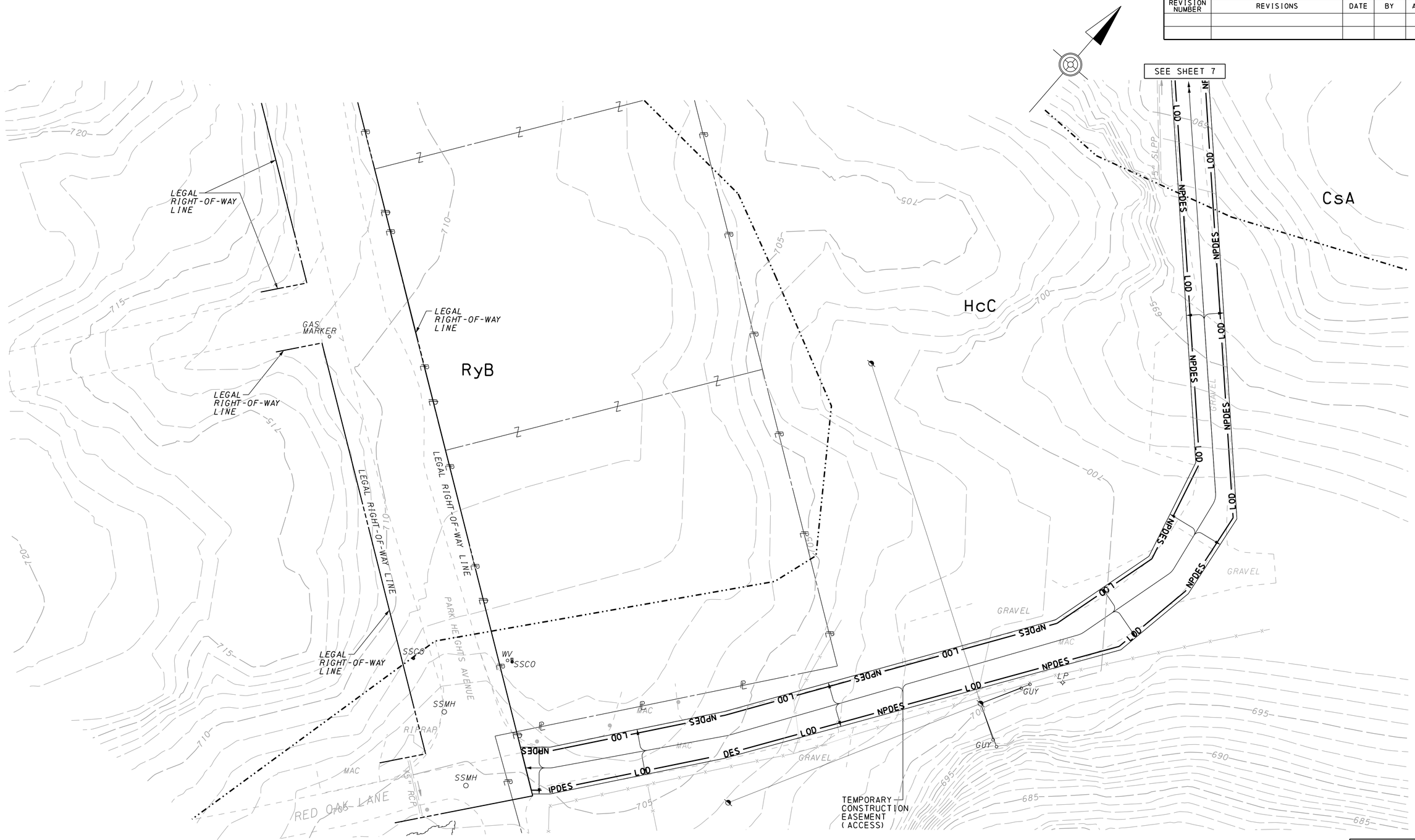
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	FRANKLIN	0011	095	8 OF 8
SOUTHAMPTON TOWNSHIP				

REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



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