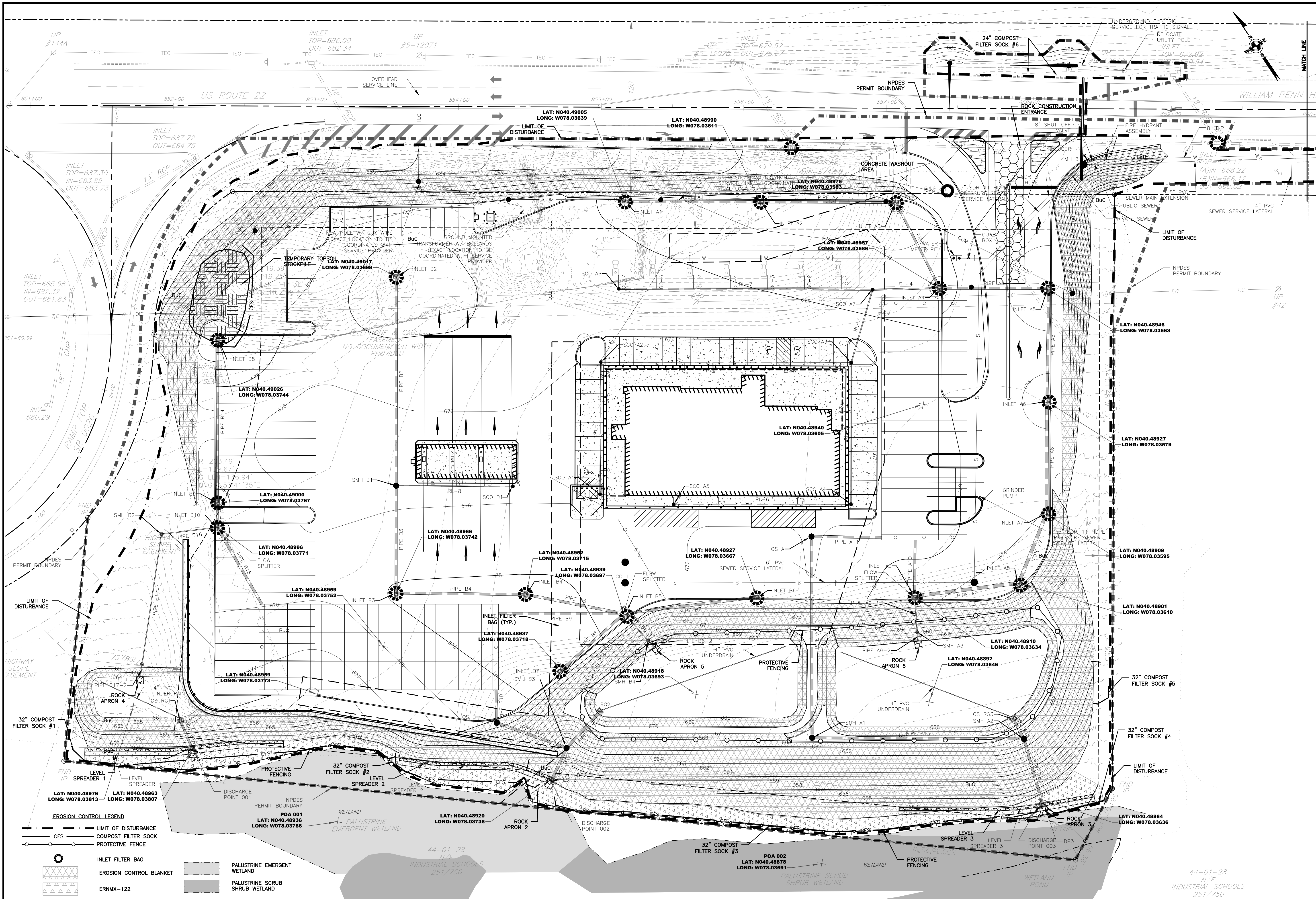




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DATE	INITIALS	SCALE	1"=30'
07/01/26 BSP			
04/15/26 BSP			

**EROSION & SEDIMENTATION
CONTROL PLAN**
HUNTINGDON RUTTER'S STORE #93
SMITHFIELD TOWNSHIP, HUNTINGDON COUNTY
PENNSYLVANIA

3746-S
FILE NAME: EAS.DWG
DATE: 6/6/24
DESIGNED BY: BSP
DRAWN BY: BSP
CHECKED BY: ---

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ES1



PROJECT NO.: 3748-S

FILE NAME: E&S.DWG

DATE: 6/6/24

DESIGNED BY: BSP

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ES1A

INDUSTRIAL SCHOOLS
251/750

44-01-28
N/F

INDUSTRIAL SCHOOLS
251/750

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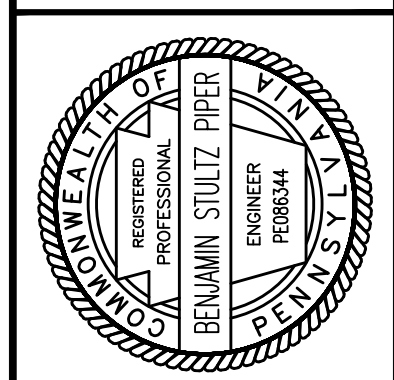
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DATE	REVISION DESCRIPTION
01/07/26 BSP	ADDITIONAL EXCAVATION/TREATMENT AREA
02/03/26 BSP	TEMPORARY EMBANKMENT REMOVALIZATION
04/15/26 BSP	NPDES MAJOR MODIFICATION
DATE & INITIALS	REVISION DESCRIPTION

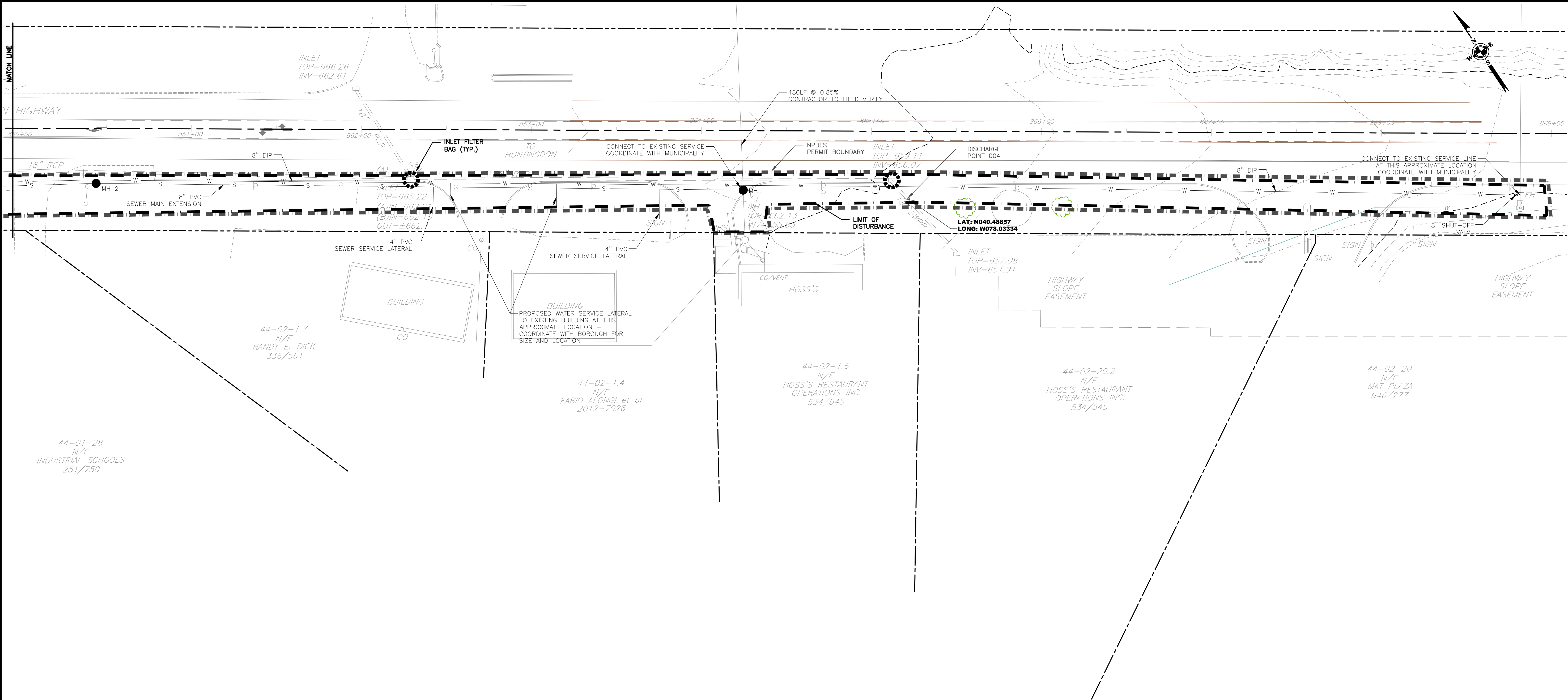
SCALE: 1"=30'

30' 0' 30'

E&S TEMPORARY LONG-TERM
STABILIZATION PLAN

HUNTINGDON RUTTER'S STORE #93

SMITHFIELD TOWNSHIP, HUNTINGDON COUNTY
PENNSYLVANIA



EROSION CONTROL LEGEND

---|---|---

LIMIT OF DISTURBANCE

CFS

COMPOST FILTER SOCK

○

PROTECTIVE FENCE

⊗

INLET FILTER BAG

▨

EROSION CONTROL BLANKET

▨

PALUSTRINE EMERGENT WETLAND

▨

PALUSTRINE SCRUB SHRUB WETLAND

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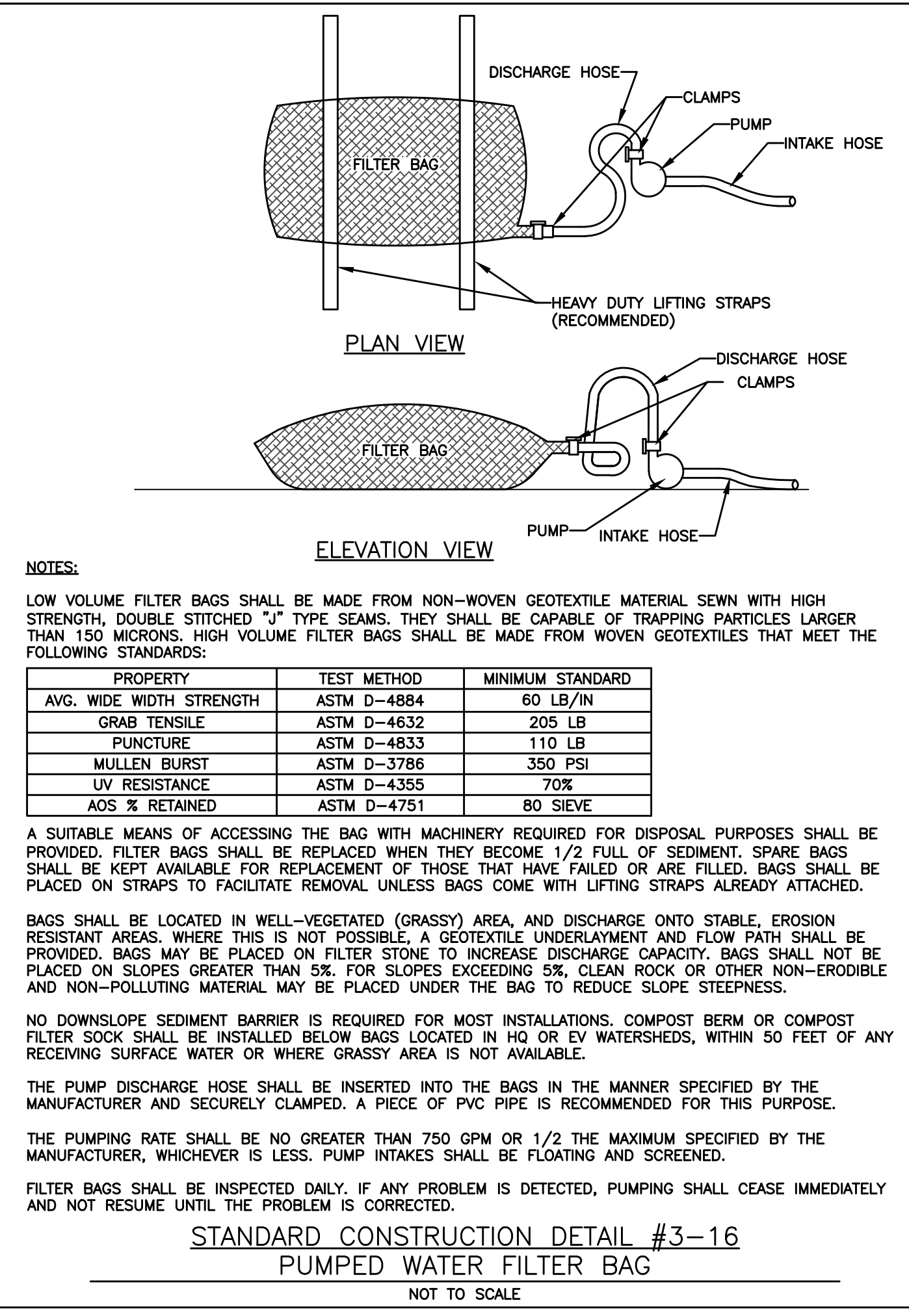
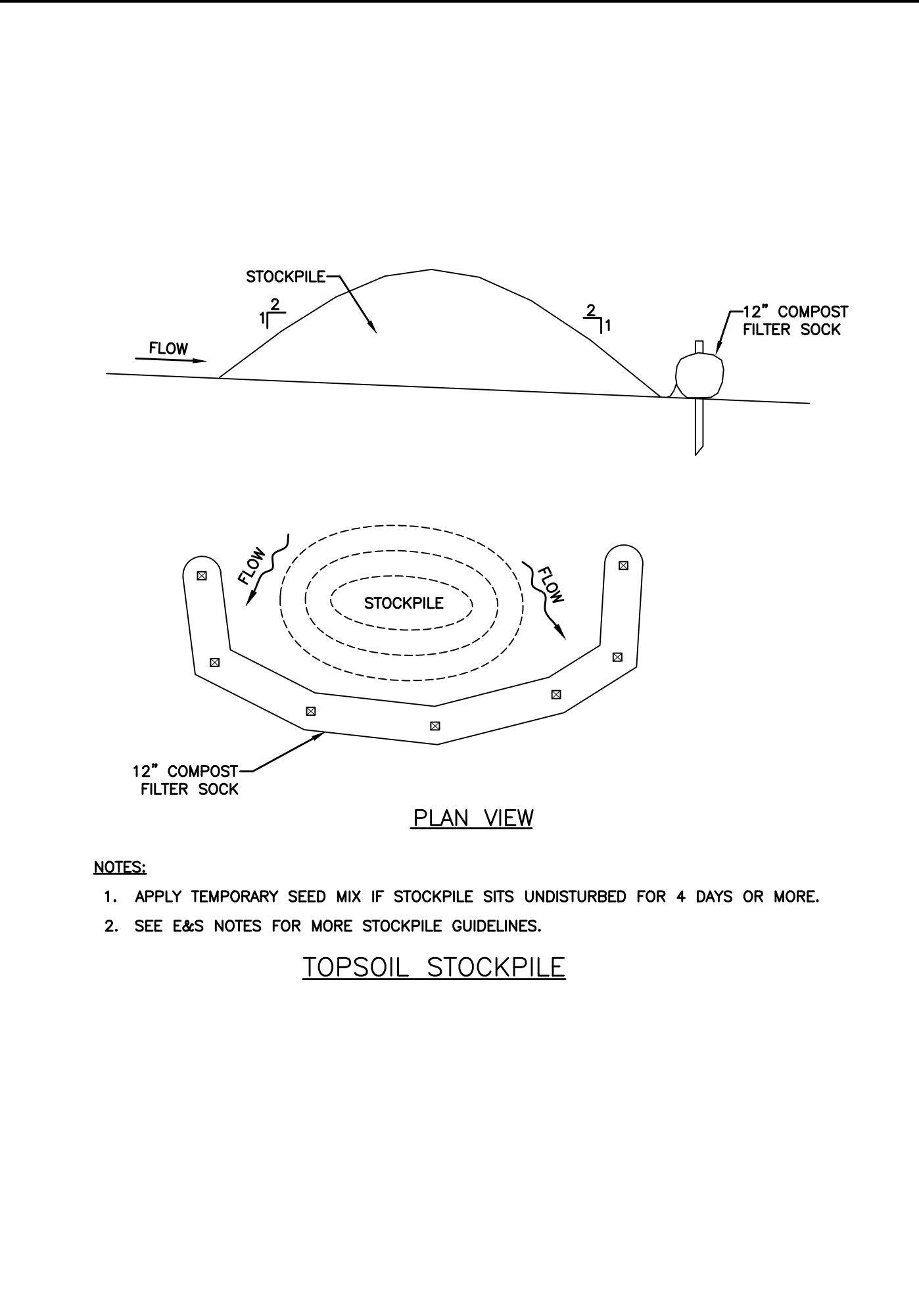
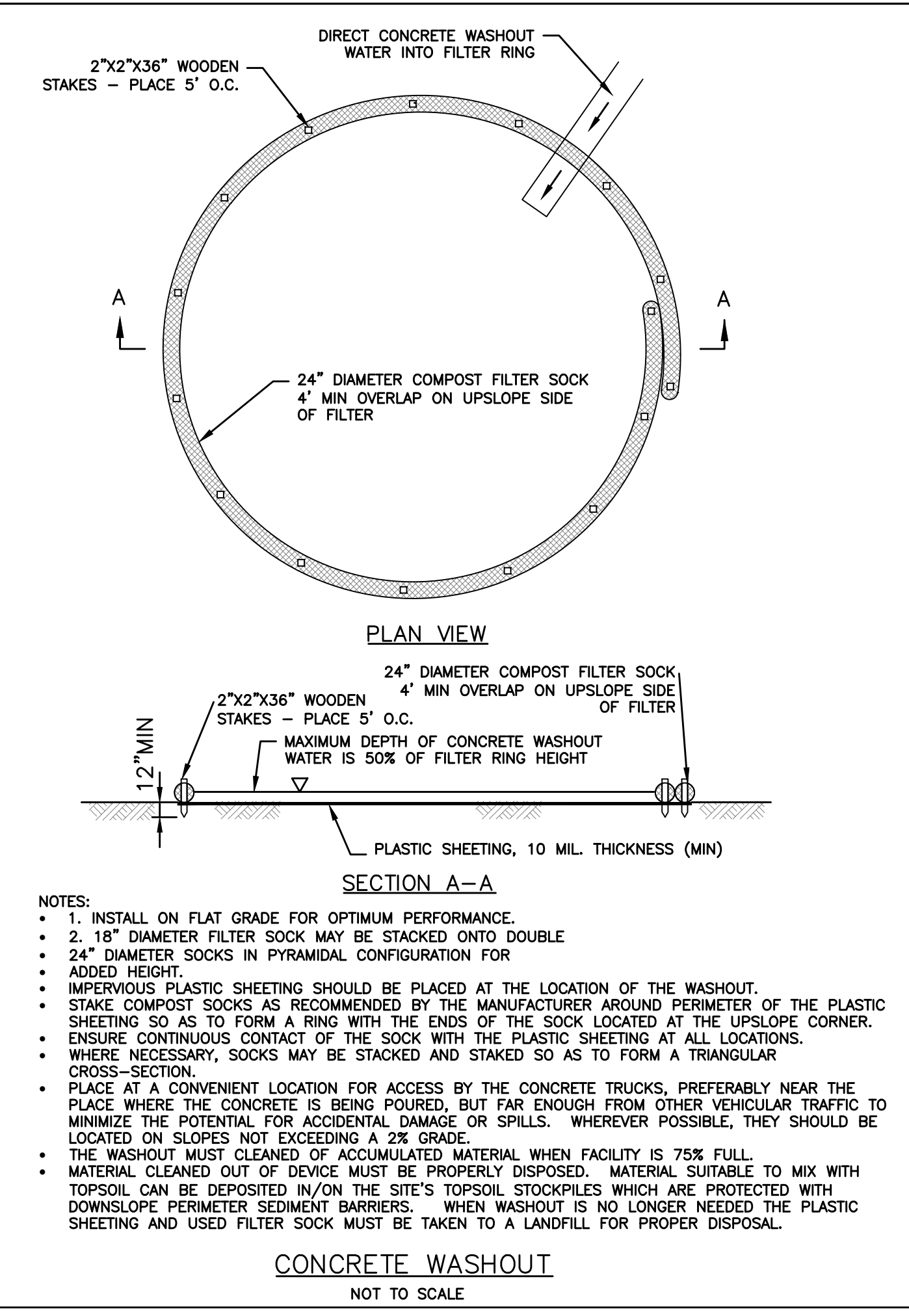
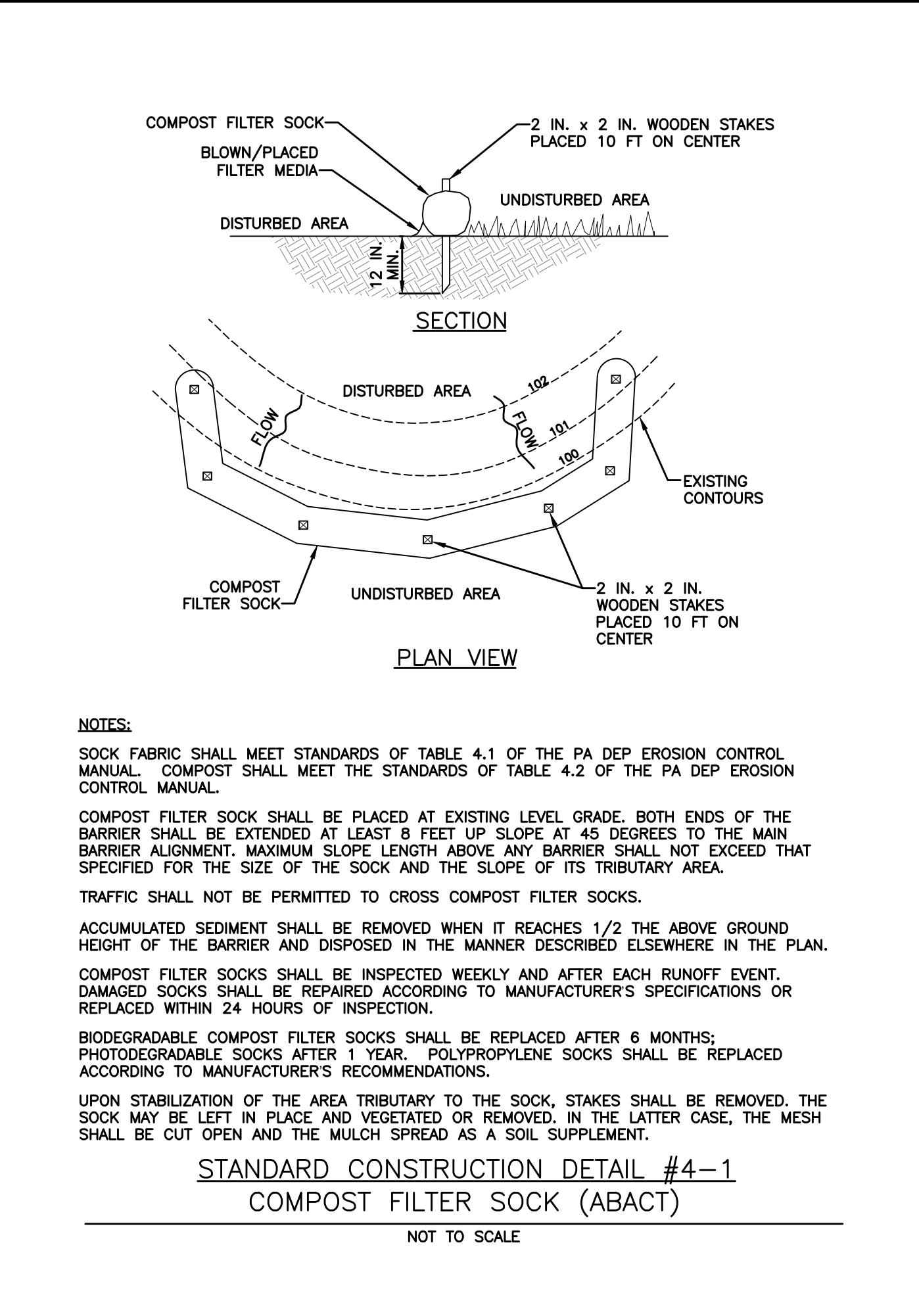
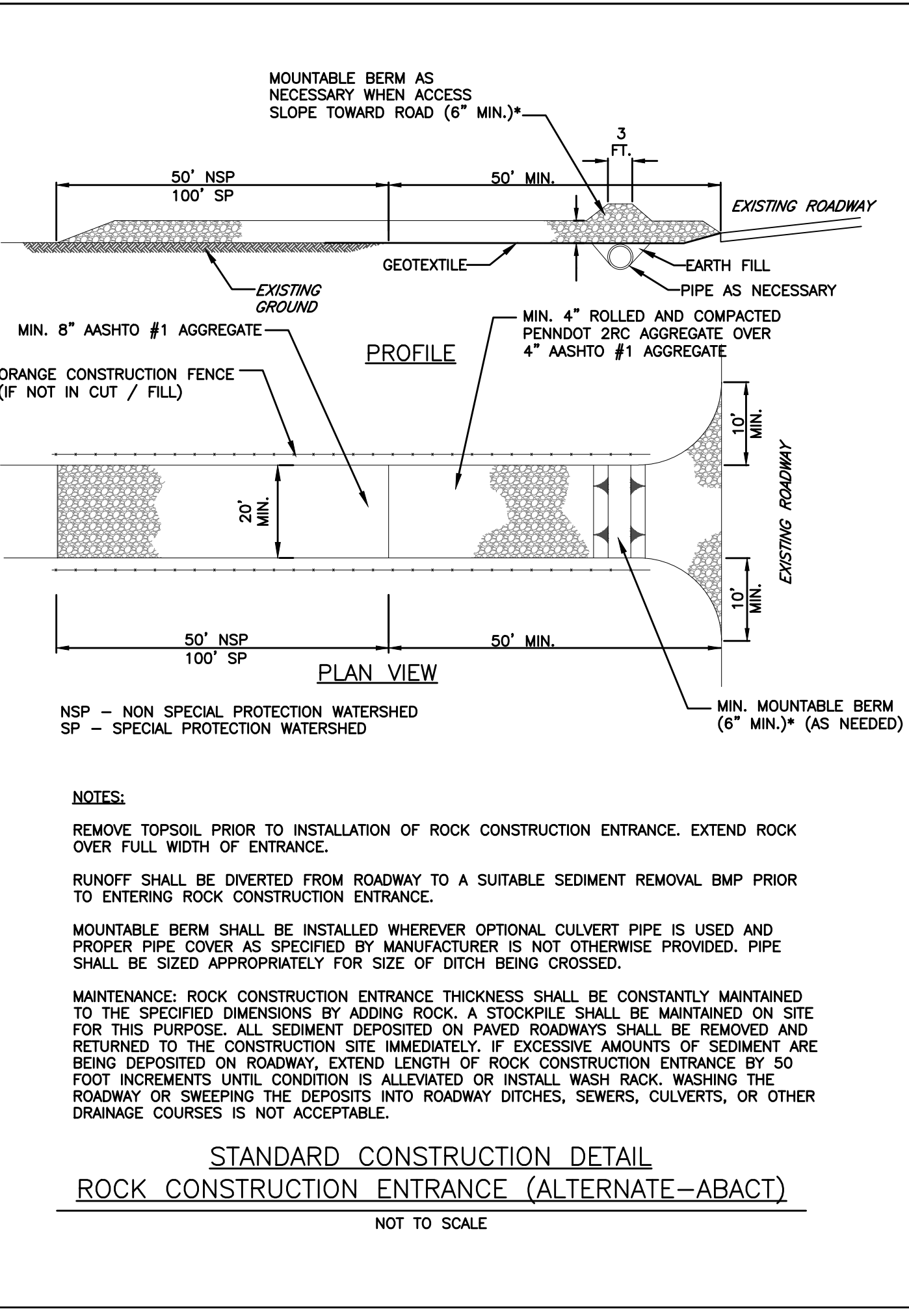
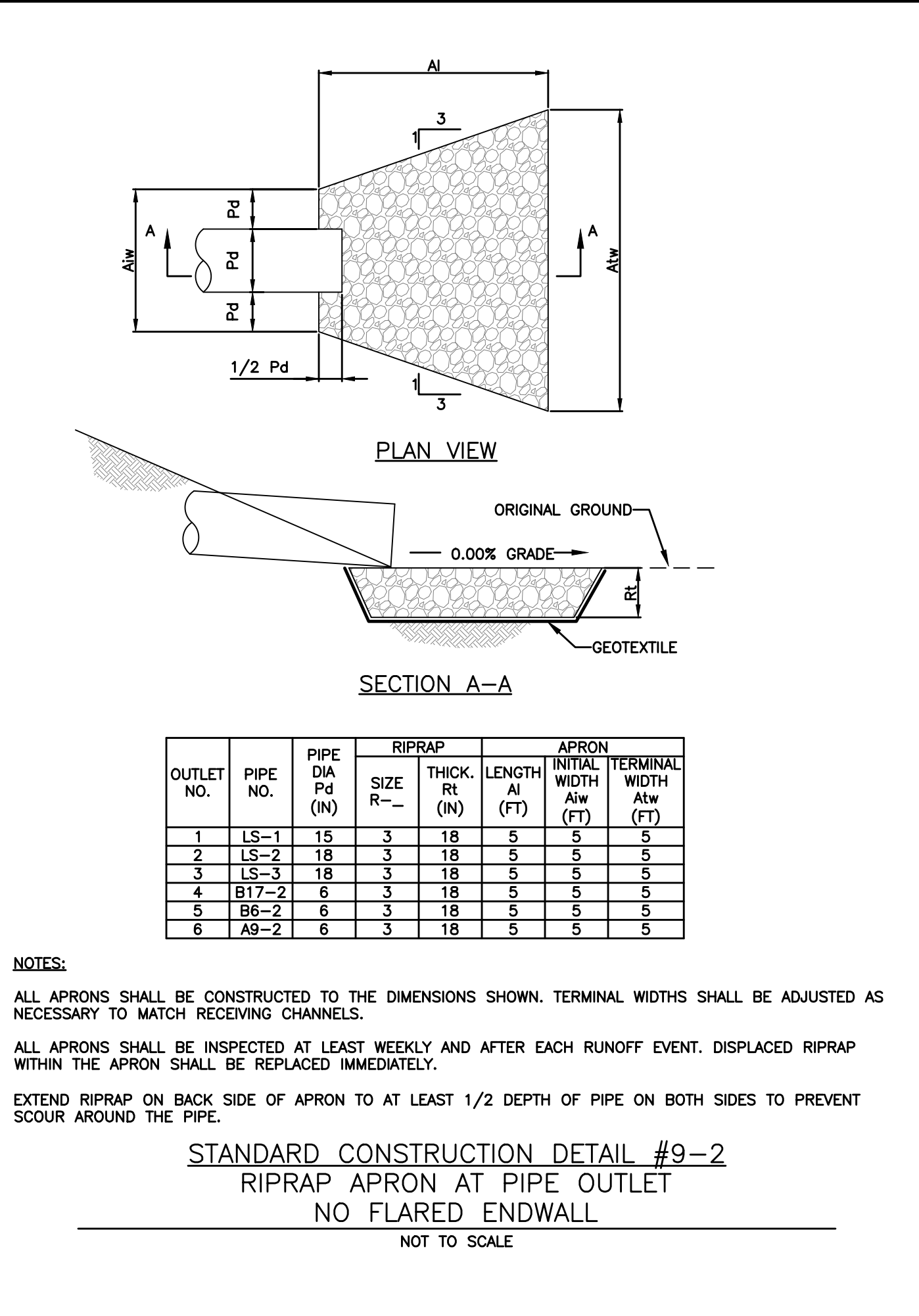
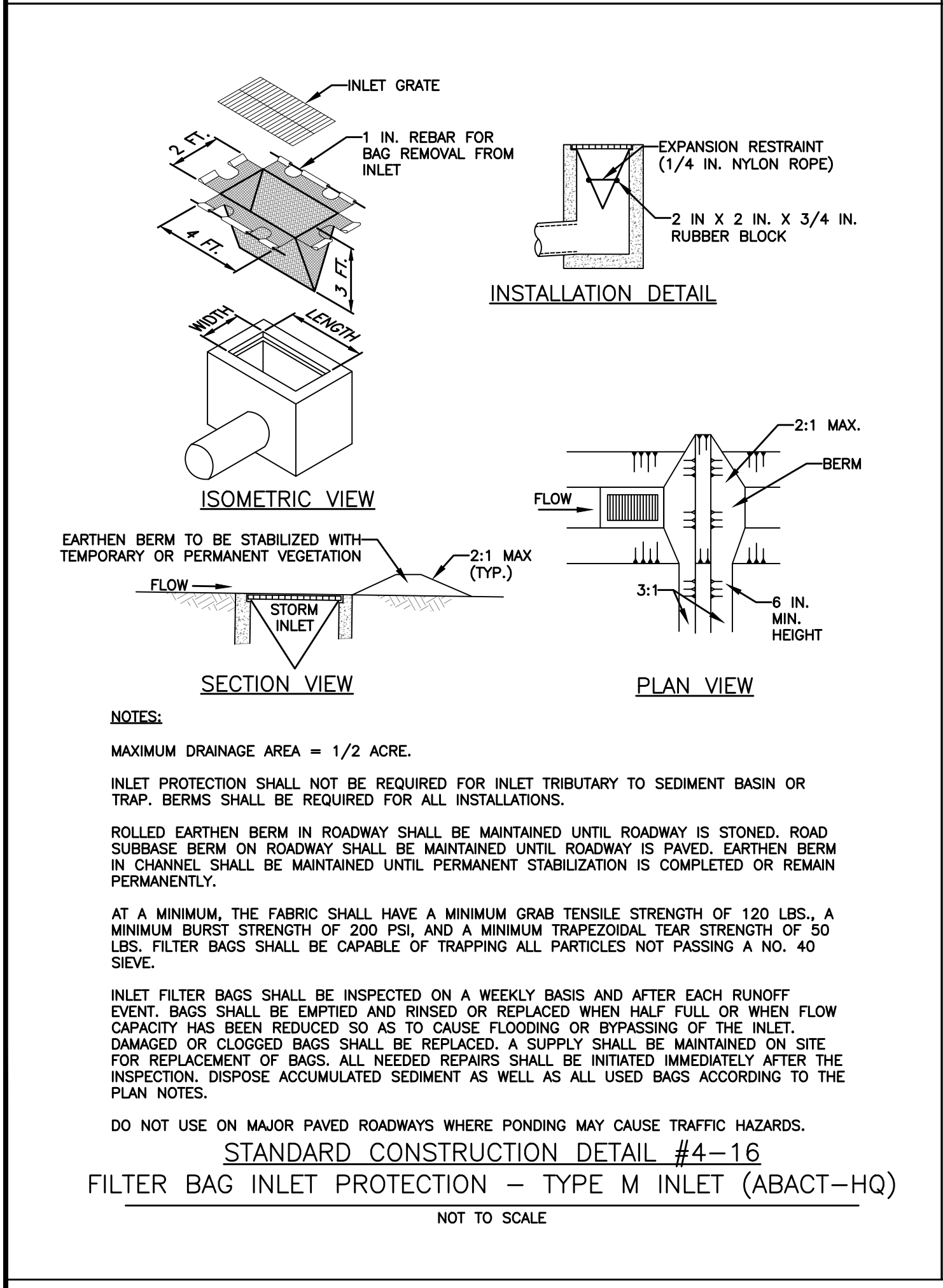
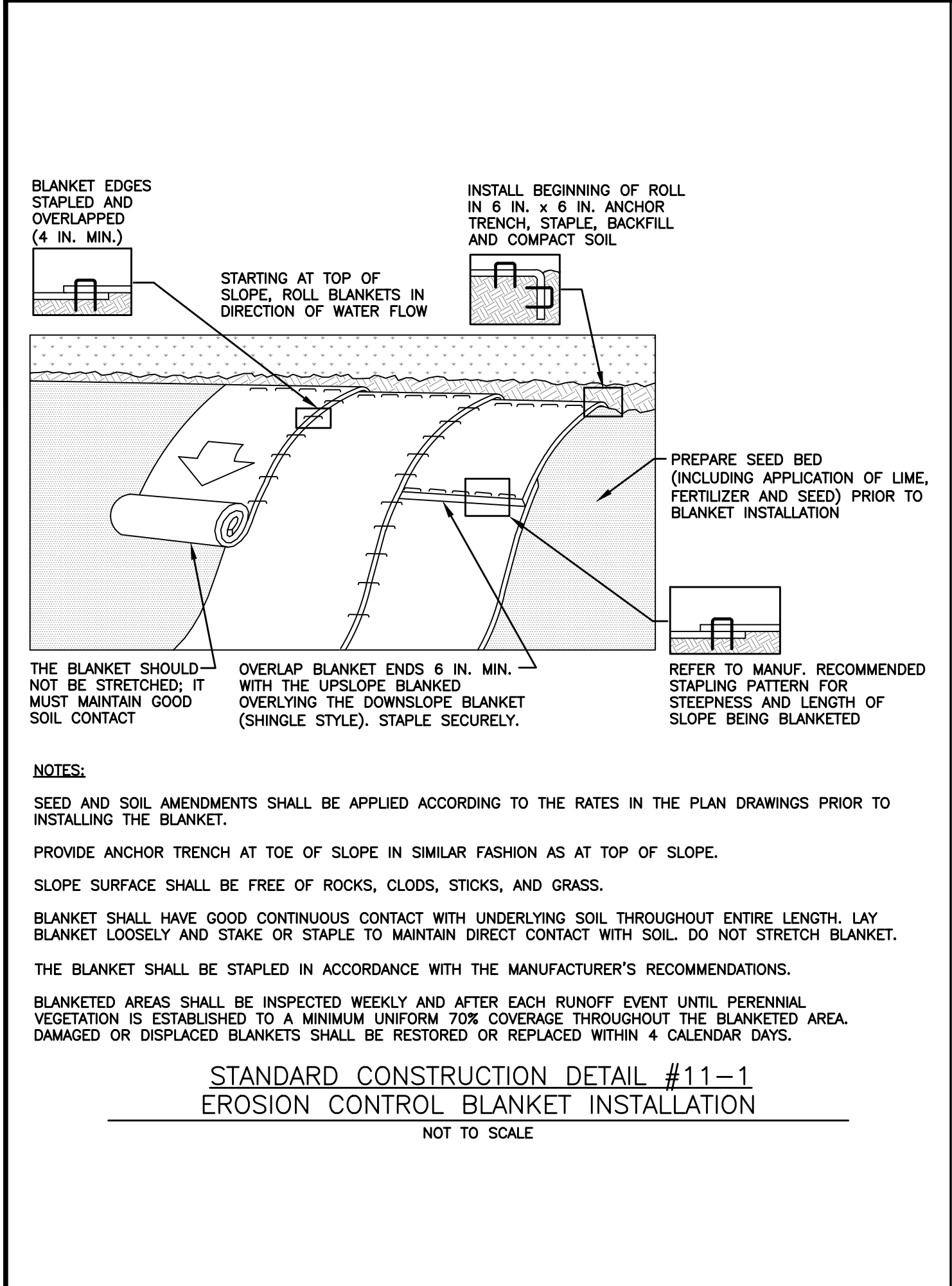
PROJECT NO.: 3746-S	FILE NAME: EAS.DWG	DATE: 6/6/24	DESIGNED BY: BSP	DRAWN BY: BSP	CHECKED BY: ---
EROSION & SEDIMENTATION CONTROL PLAN HUNTINGDON RUTTER'S STORE #93 SMITHFIELD TOWNSHIP, HUNTINGDON COUNTY, PENNSYLVANIA					

NOTES:
1. PLACE TREE PROTECTION AROUND PERIMETER OF EXISTING WETLANDS.
2. EARTHWORK FILL, VEHICULAR TRAFFIC, AND MATERIAL STORAGE SHALL BE PROHIBITED INSIDE THE PROTECTION FENCE.
3. REMOVE FENCE WHEN PROJECT IS COMPLETED. RESTORE EXISTING CONDITIONS AS NEEDED.

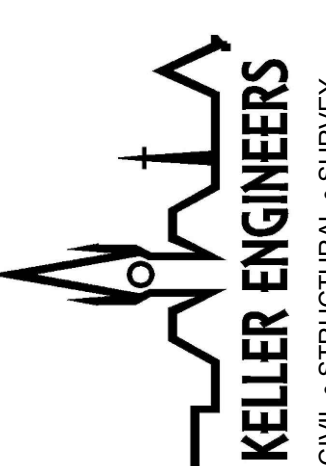
PROTECTIVE FENCING

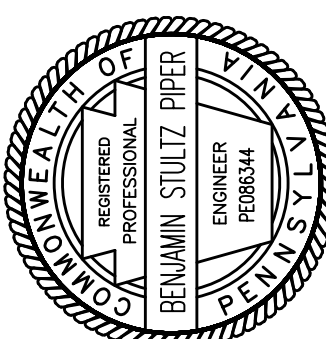
ES2

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BENJAMIN STULTZ P.E.
ENGINEER
NO. 108344
PENNSYLVANIA

PROJECT NO.:	FILE NAME:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
3745-S	EAS/DWG	6/6/24	BSP	BSP

EROSION & SEDIMENTATION CONTROL NOTES

HUNTINGDON RUTTER'S STORE #83

SMITHFIELD TOWNSHIP, HUNTINGDON COUNTY, PENNSYLVANIA

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ES3

EROSION AND SEDIMENT CONTROL NOTES

GENERAL

1. STORMWATER FROM THIS PROJECT WILL FLOW TO ADJACENT WETLANDS THAT ARE TRIBUTARY TO AN UNTIL TO THE RAYSTOWN BRANCH OF THE JUNIATA RIVER, WMF.
2. TOTAL SITE ACREAGE = 8.39 ACRES. TOTAL ON-SITE DISTURBANCE = 7.76 ACRES
3. THE EROSION AND SEDIMENT CONTROL PLAN NARRATIVE DATED FEBRUARY 2022 IS TO BE CONSIDERED A PART OF THIS CONSTRUCTION SITE PLAN.
4. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
5. CONSTRUCTION SHALL NOT COMMENCE UNTIL THE HUNTINGDON COUNTY CONSERVATION DISTRICT HAS APPROVED THE EROSION AND SEDIMENT CONTROL PLAN.
6. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
8. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
9. FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
10. IN ACCORDANCE WITH THE PNDI AVOIDANCE MEASURE, NO TREES MAY BE CUT BETWEEN MAY 15TH THROUGH AUGUST 15TH.

DUE DILIGENCE

1. THE PRIMARY CONTRACTOR IS RESPONSIBLE FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE CONCERNING THE USE OF OR DISPOSAL OF CLEAN FILL FROM THIS PROJECT. 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 PLAN MAPS AND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF 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 PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S POLICY ENTITLED "MANAGEMENT OF FILL".
2. 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 SPECIFIED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.) CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS AND FOLLOW THE GUIDANCE AS SET FORTH IN DEP POLICY "MANAGEMENT OF FILL".
3. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO ACHIEVE FINAL GRADE DURING AN UNFAVORABLE SEEDING SEASON. OTHER RELATED PROBLEMS: FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

EARTHWORK

1. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
2. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
3. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES OR IF CONDUCTED, AS RECOMMENDED IN GEOTECHNICAL INVESTIGATION OF PROJECT SITE.
4. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS OR, IF CONDUCTED, IN ACCORDANCE WITH GEOTECHNICAL INVESTIGATION OF PROJECT SITE.
5. 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.
6. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
7. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
8. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
9. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
10. SHOULD UNANTICIPATED GEOLOGIC OR SOIL CONDITIONS BE ENCOUNTERED DURING EARTHMOVING THAT PRESENT A CONCERN ABOUT THE POTENTIAL FOR THE PRODUCTION OF POLLUTION, ALL EARTHMOVING ACTIVITIES SHALL CEASE UNTIL A QUALIFIED GEO-TECHNICAL PROFESSIONAL EVALUATES THE SITUATION.
11. BASED ON THE RESULTS OF THE GEOTECHNICAL EXPLORATION INTACT EXPANSIVE BEDROCK WITH THE POTENTIAL FOR PYRITIC MATERIALS IN THE FOOTPRINT OF THE UNDERGROUND STORAGE TANKS. IN ORDER TO SEAL THE PYRITIC MATERIALS FROM EXPOSURE TO WATER AND AIR, AN ASPHALT EMULSIFIER (OR SIMILAR BITUMEN SEAL) BE APPLIED TO THE TANK SUBGRADE AND EXCAVATION SIDEWALLS, WITH A CONCRETE "MUD MAT" APPLIED TO THE HORIZONTAL BEARING SURFACES.
12. DURING CONSTRUCTION EXCAVATIONS SHALL BE OBSERVED BY E&S/GEOTECHNICAL ENGINEER OF RECORD (GER) TO EVALUATE THE SOIL CONDITIONS ENCOUNTERED IN THE FIELD AND TO DETERMINE THE NEED FOR ADDITIONAL TESTING FOR PYRITIC MATERIALS. ADDITIONAL COMMUNICATION BETWEEN THE SITE CIVIL ENGINEER, THE GER AND THE PADEP WILL BE REQUIRED TO REVIEW ANY LABORATORY RESULTS AND TO DETERMINE THE MOST APPROPRIATE REMEDIAL PROGRAM, IF WARRANTED.

BMP CONSTRUCTION AND MAINTENANCE

1. THE PRIME SITE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF BOTH TEMPORARY AND PERMANENT BMP'S FOR THE DURATION OF THE CONSTRUCTION EFFORT. THE PRIME SITE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTENANCE OF ALL BMP'S UNTIL STABILIZATION HAS OCCURRED.
2. UPON STABILIZATION, THE PRIME SITE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL TEMPORARY BMP'S. BEFORE ANY TEMPORARY EROSION CONTROL STRUCTURES ARE REMOVED, A VEGETATIVE COVERAGE WITH A DENSITY OF 70% ACROSS THE DISTURBED AREA MUST BE ACHIEVED. AFTER PROJECT COMPLETION, THE OWNER WILL BE RESPONSIBLE FOR LONG-TERM MAINTENANCE OF ANY PERMANENT BMP'S.
3. 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, REMULCHING, RESEEDING, AND RENEWING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
4. A WRITTEN LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE WHEN THEY SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF ANY INSPECTIONS. IT IS RECOMMENDED THAT DEP'S VISUAL INSPECTION REPORT FORM (3150-FM-BWEW0083) BE UTILIZED AS THE LOG TO TRACK AND DOCUMENT REQUIRED MAINTENANCE ACTIVITIES INCLUDING ANY CORRECTIONS AND/OR REPAIRS TO BMP'S.
5. BMP MAINTENANCE WILL BE PERFORMED IN ACCORDANCE WITH THE INDIVIDUAL DEVICE SCHEDULES AS SHOWN IN THE STANDARD CONSTRUCTION DETAILS.
6. THE PRIME SITE CONTRACTOR SHALL INSPECT BOTH TEMPORARY AND PERMANENT BMP'S ON THIS SCHEDULE UNTIL STABILIZATION IS ACHIEVED. AT THIS POINT, THE OWNER SHALL COMMENCE WEEKLY INSPECTIONS OF THE PERMANENT FACILITIES.
7. INLET E&S BMP'S LOCATED ALONG PUBLIC ROADWAYS ARE TO BE INSPECTED DAILY TO PREVENT CLOGGING. IF CLOGGING DOES OCCUR, ENSURE THE INLET E&S BMP IS CLEARED OF DEBRIS AND ALL DEBRIS IS DISPOSED OF ACCORDING TO PROPER DISPOSAL STANDARDS.
8. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
9. ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
10. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL BE ALLOWED TO ENTER ANY SURFACE WATER OR GROUNDWATER SYSTEMS.
11. ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.
12. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
13. CHANNELS HAVING RIPRAP, RENO MATTRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE

PROTECTIVE LINING.
14. ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES

THERMAL IMPACTS

THE POTENTIAL FOR CAUSING NEGATIVE THERMAL IMPACTS TO THE RECEIVING SURFACE WATERS DURING CONSTRUCTION ACTIVITIES WILL BE MINIMIZED OR AVOIDED IN THIS MANNER: BY UTILIZING COMPOST FILTER SOCK AS THE PRIMARY SEDIMENT CONTROL BMP, ACCUMULATED WATER WILL SLOWLY FILTER THROUGH. THERMAL IMPACTS WILL ALSO BE MINIMIZED BY IMPLEMENTING PERMANENT OR INTERIM STABILIZATION IMMEDIATELY UPON REACHING FINAL GRADES OR TEMPORARY CESSATION OF WORK.

RECYCLING & DISPOSAL OF WASTE MATERIALS

1. THE PRIMARY SITE CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL OF WASTE FROM THIS PROJECT DURING CONSTRUCTION. CONSTRUCTION WASTES ARE THOSE THAT CAN ADVERSELY IMPACT WATER QUALITY AND INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH-WATER, AND SANITARY WASTES. THE CONTRACTOR WILL INSPECT THE PROJECT AREA WEEKLY AND PROPERLY DISPOSE OF ALL CONSTRUCTION WASTE, LITTERING BY CONSTRUCTION CREWS IS DISCOURAGED; HOUSEKEEPING OF THE SITE AND THE SURROUNDING AREA IS ENCOURAGED. WHENEVER POSSIBLE, REUSABLE WASTES WILL BE SEPARATED FROM OTHER WASTE AND HANDLED FOR RECYCLING.
2. 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 2801.1 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.
3. CONCRETE WASHOUT A SUITABLE WASHOUT FACILITY MUST BE PROVIDED FOR THE CLEANING OF CONCRETE FROM CHUTES, MIXERS, AND HOPPERS OF THE DELIVERY VEHICLES. UNDER NO CIRCUMSTANCES MAY WASH WATER FROM THESE VEHICLES BE ALLOWED TO ENTER ANY SURFACE WATERS. PROPER SIGNAGE MUST BE PROVIDED SO DRIVERS ARE AWARE OF THE PRESENCE OF WASHOUT FACILITIES. A COMPOST FILTER SOCK WASHOUT AS SPECIFIED IN THE STANDARD CONSTRUCTION DETAILS IS AN ALTERNATIVE APPROVED BY THE CONSERVATION DISTRICT OR DEPARTMENT MUST BE PROVIDED ON SITE. DO NOT PLACE WASHOUT FACILITIES WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR SURFACE WATERS, INCLUDING WETLANDS.

SOIL LIMITATIONS AND RESOLUTIONS

SOIL NAME, SYMBOL	CUTBANKS CAVE	CORROSION TO CONCRETE/STEEL	DROUGHTY	EASILY ERODIBLE	DEPTH TO SATURATED ZONE SEASONAL HIGH	HYDROIC INCLUSIONS	LOW STRENGTH / LANDSLIDE PRONE	LOW PERCOLATION	PIPING	POOR SOURCE OF TOPSOIL	POOR ACTION OF FROST	SHRINK - SWELL	POTENTIAL SINKHOLE	PONDING	WETNESS
BUCHANAN, BuC	X	C/S	X	X	X	X	X	X	X	X	X	X	X	X	X

LIMITATIONS AND RESOLUTIONS

POOR SOURCE OF TOPSOIL - UNKNOWN SOIL CONDITIONS/DROUGHTY -- APPLY ADEQUATE RATES OF LIME AND FERTILIZER FOR USE AS SOIL AMENDMENT. SOIL TESTING IS STRONGLY RECOMMENDED. IRRIGATION MAYBE NEEDED WHEN THIS SOIL IS USED FOR LANDSCAPED AREAS OR PCSM BMP'S

CORROSIVITY, LOW STRENGTH, LANDSLIDE POTENTIAL, WETNESS/DEPTH TO HIGH WATER TABLE, PIPING, FROST ACTION, AND/OR SHRINK - SWELL MAY BE IMPACTED. SITE & STRUCTURAL BUILDING DESIGN WILL BE BASED ON RESULTS OF GEO-TECHNICAL INVESTIGATION.

SLOW PERCOLATION/POORLY DRAINED, WETNESS/DEPTH TO HIGH WATER TABLE -- CONDUCT INFILTRATION TESTING IF THESE SOILS ARE IMPACTED BY PCSM BMP'S

EROSION HAZARD -- MINIMIZE DISTURBED AREA; IMPLEMENT STABILIZATION BMP'S IMMEDIATELY. TEMPORARY STABILIZATION MUST BE IMPLEMENTED IMMEDIATELY IN AREAS WHERE ACTIVITY HAS CEASED FOR FOUR (4) OR MORE DAYS.

STABILIZATION

1. STOCKPILED TOPSOIL SHALL BE UTILIZED ON ALL SURFACE AREAS TO RECEIVE PERMANENT STABILIZATION AND SUPPLEMENTED IF NEEDED.
2. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES --- 6 TO 12 INCHES ON COMPACTED SOILS --- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
3. CUT OR FILL SLOPES WILL BE SEEDED AND MULCHED IN REGULAR VERTICAL INCREMENTS (15' MAX.) AS THE SLOPE IS BEING CONSTRUCTED.
4. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPACT BEDROCK AND ROCK FILL NEED NOT BE SEEDDED AND MULCHED WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
5. WITHIN FOUR(4) DAYS AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS DURING NON-GERMINATING MONTHS. MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
6. ALL FINAL SLOPE CUTS OR STEEPER, WITHIN 50 FEET OF A SURFACE WATER, AND/OR ON ANY OTHER DISTURBED AREA SPECIFIED ON THE PLAN DRAWINGS WILL HAVE AN EROSION CONTROL BLANKET INSTALLED IN CONJUNCTION WITH THE PERMANENT VEGETATIVE BMP. NORTH AMERICAN GREEN S75 EROSION CONTROL BLANKET OR EQUIVALENT SHALL BE USED FOR THIS PURPOSE.
7. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
8. TEMPORARY STABILIZATION WILL BE UTILIZED AS NEEDED DURING PLANNED OR UNPLANNED PROJECT SUSPENSION OR IF THE SITE DOES NOT ACHIEVE FINAL GRADE DURING AN UNFAVORABLE GROWING SEASON. DURING THE WINTER, TEMPORARY STABILIZATION CONSISTS OF MULCHING AT THE RATE OF 3 TONS/ACRE. ALL OTHER TIMES UTILIZE TEMPORARY SEED AND MULCH IN ACCORDANCE WITH THE DETAIL SHOWN IN THIS PLAN.

VEGETATIVE STABILIZATION
TEMPORARY STABILIZATION -- PENNDOT FORMULA E
SEED MIX/SPECIES PLS** RATE OF APPLICATION LBS/AC
ANNUAL RYEGRASS 88% 48
MULCH: STRAW (CLEAN OAT OR WHEAT) OR HAY AT THE RATE OF 3 TONS/ACRE (3 BALES PER 1000 SQUARE FEET) APPLIED WITH NON-ASPHALTIC EMULSION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION

SOIL AMENDMENTS -- STANDARD APPLICATION RATE
FERTILIZER 10--20--20 APPLIED AT RATE OF 500LB/AC*
LIME 1 TON/ACRE*

*SOIL TESTING SUGGESTED FOR PROPER RATE OF APPLICATION
RECOMMENDED DATE RANGE FOR APPLICATION: MARCH 15 TO OCT. 15
TEMPORARY STABILIZATION IMPLEMENTED OUTSIDE THIS DATE RANGE CAN BE MULCH (STRAW OR HAY) ALONE AT THE RATE SHOWN ABOVE.
**PLS = PERCENT LIVE SEED

NURSE CROP: (PER PSU "EROSION CONTROL & CONSERVATION PLANTINGS ON NON-CROPLAND")
ONE OF THE FOLLOWING NURSE CROPS MUST BE INCLUDED WITH ANY PERMANENT SEED MIXTURE:
SEED MIX/SPECIES RATE OF APP. LBS/AC(W/90% + GERM) RATE OF APP. LBS/AC(W/ < 90% GERM)
SPRING OATS 60 80
WINTER WHEAT 690 80
WINTER RYE 56 84

PERMANENT STABILIZATION -- ERNMX-280
STEEP SLOPES AND OTHER NON-MOWED SURFACES
SEED AT 45 LB PER ACRE WITH A COVER CROP. FOR A COVER CROP USE ONE OF THE FOLLOWING: GRAIN OATS (30 LBS/ACRE; 1 JAN TO 30 APR), BROWN TOP MILLET (10 LBS/ACRE; 1 MAY TO 31 AUG), OR GRAIN RYE (30 LBS/ACRE; 1 SEP TO 31 DEC).

40.00 % SORGHASTRUM NUTANS, PA ECOTYPE
23.50 % ELYMUS VIRGINICUS, MADISON-NY ECOTYPE
17.00 % PANICUM CLANDESTINUM, TOGA
7.00 % ANDROPOGON GERARDI, PRAIRIE VIEW--IN ECOTYPE
4.00 % PANICUM VIRGATUM, "SHELTER"
3.30 % TRIDENS FLAVUS
1.80 % HELOPSIS HELIANTHOIDES, PA ECOTYPE
1.30 % RUDBECKIA HIRTA
0.80 % ASCLEPIAS SYRIACA
0.50 % ASTER LAEVIS, NY ECOTYPE
0.40 % CHAMAECRISTA NICTITANS, NC ECOTYPE
0.20 % MONARDA FISTULOSA, FORT INDIANTOWN GAP-PA ECOTYPE
0.20 % SOLIDAGO JUNCEA, PA ECOTYPE

PERMANENT STABILIZATION -- ERNMX-280
LAWNS OR OTHER MOWED AND MAINTAINED SURFACES
SEED AT 45 LB PER ACRE WITH A COVER CROP. FOR A COVER CROP USE ONE OF THE FOLLOWING: GRAIN OATS (30 LBS/ACRE; 1 JAN TO 30 APR), BROWN TOP MILLET (10 LBS/ACRE; 1 MAY TO 31 AUG), OR GRAIN RYE (30 LBS/ACRE; 1 SEP TO 31 DEC).

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0.40 % CHAMAECRISTA NICTITANS, NC ECOTYPE
0.20 % MONARDA FISTULOSA, FORT INDIANTOWN GAP-PA ECOTYPE
0.20 % SOLIDAGO JUNCEA, PA ECOTYPE

**ERNMX-122 FACW WETLAND MEADOW MIX
20 LB PER ACRE, OR 1/2 LB PER 1,000 SQ FT
MUST INCLUDE COVER CROP: USE ONE OF THE FOLLOWING: GRAIN RYE (1 SEP TO 30 APR; 30 LBS/ACRE), JAPANESE MILLET (1 MAY TO 31 AUG; 10 LBS/ACRE), OR BARNYARD GRASS (1 MAY TO 31 AUG; 10 LBS/ACRE).

29.8% FOX SEDGE, PA ECOTYPE (CAREX VULPINODEA, PA ECOTYPE)
18.0% VIRGINIA WILDRYE, PA ECOTYPE (ELYMUS VIRGINICUS, PA ECOTYPE)
11.0% HOP SEDGE, PA ECOTYPE (CAREX LUPULINA, PA ECOTYPE)
11.0% BLUNT BROOM SEDGE, PA ECO TYPE (CAREX SCOPARIA)
8.5% LURID (SHALLOW) SEDGE, PA ECOTYPE (CAREX LURIDA, PA ECOTYPE)
5.2% WOOD REEDGRASS PA ECOTYPE (CINNA ARUNDINACEA, PA ECOTYPE)
4.0% BLUE VERVAIN, PA ECOTYPE (VERBENA HASTATA, PA ECOTYPE)
3.0% SOFT RUSH (LUNUS EFFUSUS, PA ECOTYPE)
2.0% SWAMP MILKWEED, PA ECOTYPE (ASCLEPIAS INCARNATA, PA ECOTYPE)
2.0% OXEYE SUNFLOWER, PA ECOTYPE (HELOPSIS HELIANTHOIDES, PA ECOTYPE)
1.0% NODDING BUR MARIOLD
1.0% SENSITIVE FERN (ONOCLEA SENSIBILIS)
0.8% BONESET, PA ECOTYPE (EUPATORIUM PERFOROLIATUM, PA ECOTYPE)
0.8% COMMON SNEEZEWEED PA ECOTYPE (HELENIUM AUTUMNALE, PA ECOTYPE)
0.8% BLUE FLAG (IRIS VERSICOLOR)
0.7% GOLDEN ALEXANDER (ZIZIA AUREA)
0.3% NEW ENGLAND ASTER, PA ECOTYPE (ASTER NOVAE-ANGIAE, PA ECOTYPE)
0.3% ZIGZAG ASTER, PA ECOTYPE (ASTER PRENANTHOIDES, PA ECOTYPE)
0.3% JOE PYE WEED, PA ECOTYPE (EUPATORIUM FISTULOSUM, PA ECOTYPE)
0.3% GREAT BLUE LOBELIA, PA ECOTYPE (LOBELIA SIPHILITICA, PA ECOTYPE)
0.3% WOODLARK (SCIRPUS CYPERINUS, PA ECOTYPE)
0.2% PURPLESTEM ASTER, PA ECOTYPE (ASTER PUNICEUS, PA ECOTYPE)
0.2% FLAT TOPPED WHITE ASTER, PA ECOTYPE (ASTER UMBELLATUS, PA ECOTYPE)
0.2% DITCH STONE CROP, PA ECOTYPE (PENTHORUM SEDOIDES, PA ECOTYPE)
0.2% WRINKLELEAF GOLDENROD, PA ECOTYPE (SOLIDAGO RUUGOSA, PA ECOTYPE)
0.1% SQUARE STEMMED MONKEYFLOWER, PA ECOTYPE (MIMULUS RINGENS, PA ECOTYPE)
100%

DESCRIPTION OF PROPOSED BMP'S

THIS PROJECT INVOLVES THE DEVELOPMENT OF A VACANT PARCEL OF LAND. THE PROPERTY HAS BEEN MAINTAINED AS A FARM FIELD FOR CROPPING AND CUTTING HAY FORM MANY YEARS. THE PROJECT SITE SLOPES FROM NORTH TO SOUTH, SIMILAR TO THE ADJACENT PROPERTIES ALSO LOCATED ON THE SOUTH SIDE OF RT. 22. THE PROPERTY SLOPES FROM RT. 22, WHICH PARALLELS THE NORTHERN PROPERTY LINE, TOWARDS THE ADJACENT SOUTHERN LOWER PROPERTY TOWARDS THE ADJACENT WETLAND COMPLEX. THERE IS AN APPROXIMATE 20 FOOT DROP FROM THE HIGHWAY TO THE ADJACENT PROPERTY. RT. 22 CUTS OFF NEARLY ALL OF THE UPSLOPE WATERSHED DRAINING TO THE PROJECT SITE. PRIMARY SEDIMENT CONTROL WILL BE PROVIDED WITH THE INSTALLATION OF PERIMETER COMPOST FILTER SOCK, USE OF ROCK CONSTRUCTION ENTRANCE FOR ALL VEHICLE EXITING THE PROJECT SITE. INSTALLATION OF INLET FILTER BAGS IN ALL INLETS, AND THE IMMEDIATE STABILIZATION OF ALL DISTURBED SURFACES AS FINAL GRADES ARE ACHIEVED OR DURING PERIODS OF WORK CESSATION

IN ADDITION TO THE CONSTRUCTION OF THE CONVENIENCE STORE AND SITE IMPROVEMENTS, THE PROJECT REQUIRES OFF-SITE WORK AREA TO EXTEND PUBLIC UTILITIES. WATER AND SANITARY SEWER WILL BE EXTENDED TO THE NEW DEVELOPMENT FROM THE EAST ALONG THE SOUTH SIDE OF RT. 22.

BMP SEQUENCE OF INSTALLATION AND REMOVAL

1. THE CONTRACTOR SHALL INVITE A REPRESENTATIVE FROM THE HUNTINGDON COUNTY CONSERVATION DISTRICT TO ATTEND THE PRECONSTRUCTION MEETING AND PROVIDE AT LEAST 7 DAYS NOTICE OF THE PRECONSTRUCTION MEETING TO ALL INVITED ATTENDEES. PERMITTEES, CO-PERMITTEES, OPERATORS, AND LICENSED PROFESSIONALS OR DESIGNEES RESPONSIBLE FOR THE EARTH DISTURBANCE ACTIVITY, INCLUDING IMPLEMENTATION OF E&S AND PCSM PLANS AND CRITICAL STAGES OF IMPLEMENTATION OF THE APPROVED PCSM PLAN, SHALL ATTEND A PRECONSTRUCTION MEETING
2. UPON INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMPs AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTICE TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DESCRIBED FROM THAT SEQUENCE MUST BE APPROVED BY THE HUNTINGDON COUNTY CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION. EACH STEP OF THE SEQUENCE SHALL BE COMPLETED BEFORE PROCEEDING TO THE NEXT STEP, EXCEPT WHERE NOTED.
5. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE FOLLOWING CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING, AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMP'S SPECIFIED BY THE SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
6. PROPOSED SLOPES SHALL BE PROTECTED FROM VEHICULAR TRAFFIC, EQUIPMENT OPERATION, STOCKPILING OF MATERIALS, AND SOIL COMPACTION DURING CONSTRUCTION. FINAL EXCAVATION OF INFILTRATION SCMS SHALL NOT OCCUR UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED. ANY SOILS THAT BECOME COMPACTED OR CONTAMINATED WITH SEDIMENT SHALL BE SCARIFIED, REMOVED, OR OTHERWISE RESTORED TO THE SATISFACTION OF THE PROJECT ENGINEER PRIOR TO ACCEPTANCE.

SITE SPECIFIC SEQUENCE

- STAGE 1 -- CONVENIENCE STORE DEVELOPMENT SITE
FIELD-MARK LIMITS OF DISTURBANCE AND ADJACENT WETLAND RESOURCES ALONG SOUTHERN PROPERTY LINE.
- INSTALL PROTECTIVE FENCING AND COMPOST FILTER SOCK ABOVE WETLANDS AND ANY STREAMS AS SHOWN ON THE E&S PLAN DRAWINGS TO PROTECT WETLAND RESOURCES FROM IMPACT DURING CONSTRUCTION. INSTALL ORANGE CONSTRUCTION FENCE AROUND THE LOCATION OF PCSM SCM'S TO AVOID OVER COMPACTION.
- INSTALL ROCK CONSTRUCTION ENTRANCE. WHEN DRIVEWAY ENTRANCE IS COMPLETED ASSURE THAT AN ADEQUATE ROCK CONSTRUCTION ENTRANCE HAS BEEN RE-INSTALLED AND WILL BE MAINTAINED THROUGH THE PROJECT CONSTRUCTION.
- E&S BMP'S SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.

STAGE 2 SITE EARTHWORK -- PHASE 1

1. CLEARING, GRUBBING, AND TOPSOIL STRIPPING CAN NOW BEGIN.
ANY AVAILABLE SUITABLE TOPSOIL WILL BE STOCKPILED AS SHOWN ON THE CONSTRUCTION DRAWINGS AND PROTECTED BY SEEDING AND MULCHING AND THE INSTALLATION OF PERIMETER COMPOST FILTER SOCK AROUND THE STOCKPILE.
2. START EXCAVATIONS WITH INCREMENTAL STABILIZATION.
3. TREAT ANY EXCAVATED PYRITIC MATERIAL ON-SITE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS.
4. BEGIN CONSTRUCTION OF RETAINING WALL TO FACILITATE INCREMENTAL EXCAVATION AND STABILIZATION.
5. ESTABLISH GRADES SHOWN ON TEMPORARY LONG-TERM STABILIZATION PLAN (SHEET ES1A) AND STABILIZE SITE EARTH DISTURBANCE.
6. CONDUCT pH TESTING IN ACCORDANCE WITH GEOTECHNICAL REPORT RECOMMENDATIONS

STAGE 3 SITE EARTHWORK -- PHASE 2

1. CONTINUE EXCAVATIONS WITH INCREMENTAL STABILIZATION.
2. BEGIN CONSTRUCTION OF BUILDINGS, ROADWAYS AND OTHER STRUCTURES. BEGIN SITE UTILITY AND STORMWATER NETWORK INSTALLATION(INCLUDING THE SUBSURFACE INFILTRATION BEDS/BASINS, WHICH ARE CRITICAL STAGE BMP'S REQUIRING OVERSIGHT BY A LICENSED PROFESSIONAL.) INLET FILTER BAGS WILL BE INSTALLED IMMEDIATELY FOLLOWING INSTALLATION OF EACH INLET.
3. PERMANENT STABILIZATION
a) REPLACEMENT OF TOPSOIL (4 -- 6 INCHES)
b) PERMANENT SEEDING VIA HYDROSEED OPERATION
(1) SOIL AMENDMENTS
(2) SEED APPLICATION
(3) MULCH AND/OR BLANKETING
c) CRUSHED AGGREGATE SURFACES WILL BE APPLIED AS SOON AS ROAD OR PARKING LOT SURFACES

- HAVE BEEN GRADED.
d) COMPLETE PAVEMENT.
3. 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 AN INSPECTION PRIOR TO CONVERTING E&S BMP'S TO PCSM BMP'S OR TO SCHEDULE A FINAL INSPECTION IF THE PROJECT IS COMPLETE.

OFF-SITE WORK AREAS

- WORK ON OFF-SITE UTILITIES CAN OCCUR FOLLOWING OR SIMULTANEOUS TO STAGE 1 AND 2
- OFF-SITE UTILITIES WILL BE EXTENDED TO THE DEVELOPMENT SITE VIA UNDERGROUND TRENCHING. PRIOR TO INITIATING TRENCH EXCAVATION, THE CONTRACTOR WILL COORDINATE WORK WITH THE APPROPRIATE UTILITY PROVIDER.
- MATERIAL REMOVED DURING TRENCH EXCAVATION WILL BE IMMEDIATELY REMOVED FROM THE PROJECT AREA AND PROPERLY DISPOSED AT AN ACCEPTABLE UPLAND DISPOSAL SITE, SEE "RECYCLING AND DISPOSAL OF WASTE MATERIAL" PLAN NOTE.
- DAILY TRENCH EXCAVATION WILL BE LIMITED TO THE LENGTH THAT PIPE INSTALLATION CAN BE COMPLETED WITHIN THE SAME WORK DAY.
- IF TRENCH DEWATERING IS NEEDED, IT WILL BE PERFORMED IN ACCORDANCE WITH THE DEP EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL. WATER WILL BE PUMPED TO A SEDIMENT REMOVAL FACILITY, PUMPED WATER FILTER BAG OR ACCEPTABLE ALTERNATIVE.
- INSTALL PIPE/UTILITY.
- COMPACT AND BACKFILL TRENCH.
- RESTORE DISTURBED AREAS IMMEDIATELY. THE SHOULDER WILL BE IMMEDIATELY RESTORED TO A STABLE GRAVEL SURFACE. ALL PAVEMENT DISTURBANCE WILL BE RE-SURFACED, AND ALL ADJACENT DISTURBED SOIL SURFACES WILL BE SEEDED AND MULCHED.

HIGHWAY IMPROVEMENTS

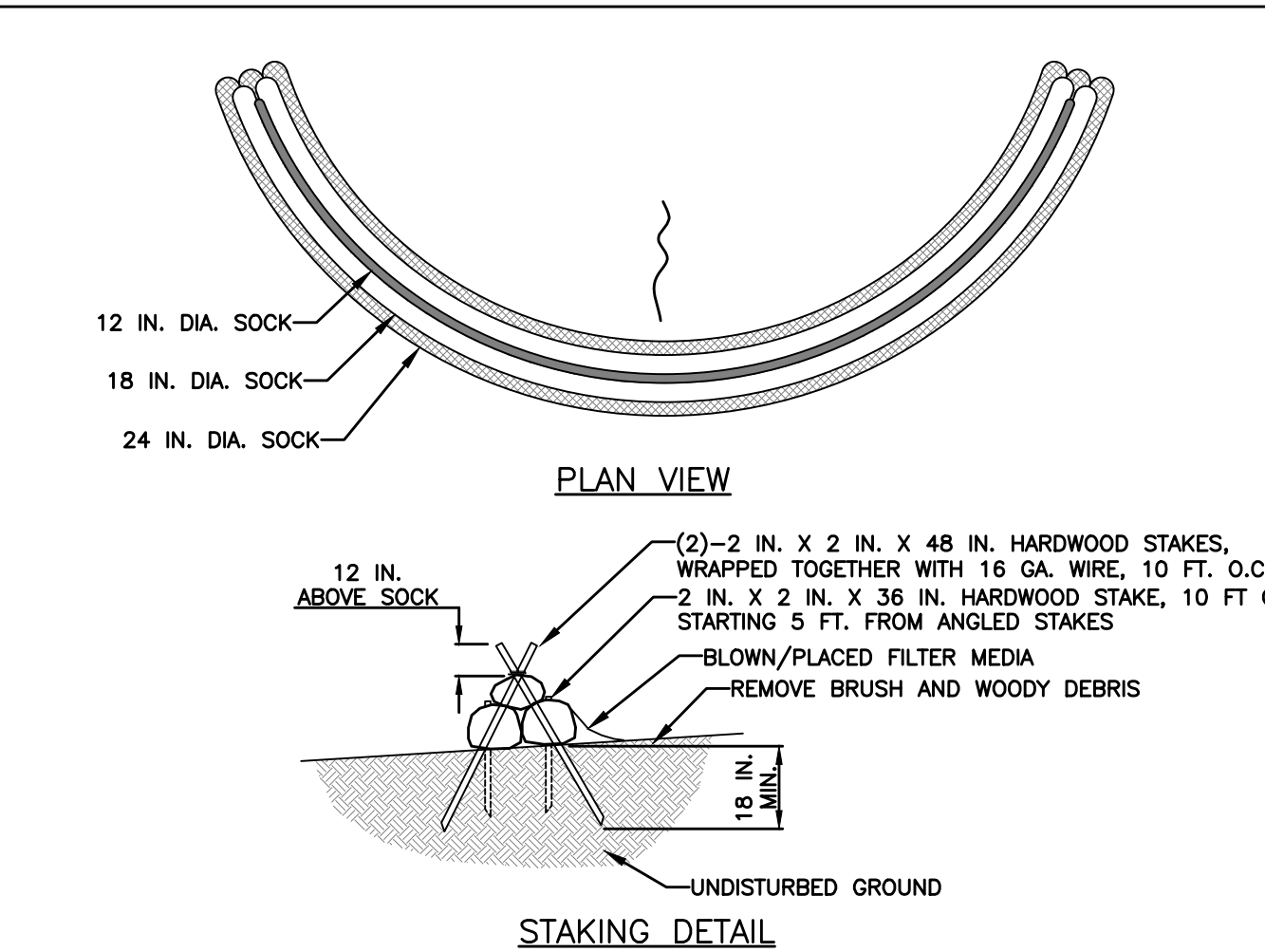
- NEEDED HIGHWAY IMPROVEMENTS CAN OCCUR FOLLOWING OR SIMULTANEOUS TO STAGES 1 AND 2.
- WORK WILL BE CONDUCTED IN ACCORDANCE WITH PLAN APPROVED BY PENNDOT.
- MATERIAL REMOVED DURING ROADWAY IMPROVEMENT WORK EXCAVATION WILL BE IMMEDIATELY REMOVED FROM THE PROJECT AREA AND PROPERLY DISPOSED AT AN ACCEPTABLE UPLAND DISPOSAL SITE, SEE "RECYCLING AND DISPOSAL OF WASTE MATERIAL" PLAN NOTE.
- IMMEDIATELY UPON ACHIEVED DESIRED IMPROVEMENT, THE AREA MUST BE RESTORED AND STABILIZED, PAVEMENT FROM ROADWAY AND SEEDING AND MULCHING ALL ADJACENT DISTURBED SOIL SURFACES.

FINAL STAGE ALL WORK AREAS:

1. TEMPORARY E&S BMP'S, COMPOST FILTER SOCK AND INLET FILTER BAGS, WILL BE REMOVED WHEN THE AREAS DRAINING TO THESE BMP'S HAVE ACHIEVED THE REQUIRED LEVEL OF STABILIZATION -- DEFINED AS THE ESTABLISHMENT OF A UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES OR COVERED WITH AN ACCEPTABLE PERMANENT BMP; SUCH AS, GRAVEL OR PAVEMENT FOR DRIVEWAYS OR SIDEWALKS. STOCKPILED TOPSOIL SHALL BE UTILIZED ON ALL SURFACE AREAS TO RECEIVE PERMANENT STABILIZATION AND SUPPLEMENTED AS NEEDED. PERMANENT VEGETATIVE STABILIZATION SHALL BE DEFINED AS AN ESTABLISHED UNIFORM 70% PERENNIAL VEGETATIVE COVER.
2. AREAS DISTURBED DURING THE REMOVAL OF CONTROLS MUST BE STABILIZED IMMEDIATELY.

NOTE:

TEMPORARY SEEDING WILL BE USED AS NEEDED. TEMPORARY SEED AND MULCH (IN ACCORDANCE WITH DETAIL) WILL BE APPLIED IN ALL AREAS WHERE ACTIVITIES CEASE FOR FOUR (4) DAYS OR IF ANY DISTURBED AREA ACHIEVES FINAL GRADE DURING AN UNFAVORABLE SEEDING SEASON.



DESIGN NOTES:

1. COMPOST SOCK SEDIMENT TRAP SHALL BE SIZED TO PROVIDE 2000 CUBIC FEET OF STORAGE CAPACITY FOR EACH ACRE TRIBUTARY TO THE TRAP.
2. MINIMUM BASE WIDTH SHALL BE EQUAL TO THE HEIGHT.
3. SEDIMENT ACCUMULATION SHALL NOT EXCEED 1/3 THE TOTAL HEIGHT OF THE TRAP.
4. SOCKS SHALL BE OF LARGER DIAMETER AT THE BASE OF THE TRAP AND DECREASE IN DIAMETER FOR SUCCESSIVE LAYERS AS SHOWN ON THE PLAN VIEW.
5. ENDS OF THE TRAP SHALL BE A MINIMUM OF 1 FOOT HIGHER IN ELEVATION THAN THE MID-SECTION, WHICH SHALL BE LOCATED AT THE POINT OF DISCHARGE.

NOTES:

SOCK MATERIAL SHALL MEET THE 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 SOCK SEDIMENT TRAPS SHALL NOT EXCEED THREE SOCKS IN HEIGHT AND SHALL BE STACKED IN PYRAMIDAL FORM AS SHOWN ABOVE. MINIMUM TRAP HEIGHT IS ONE