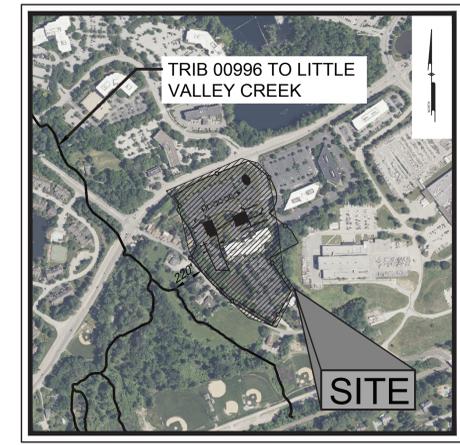
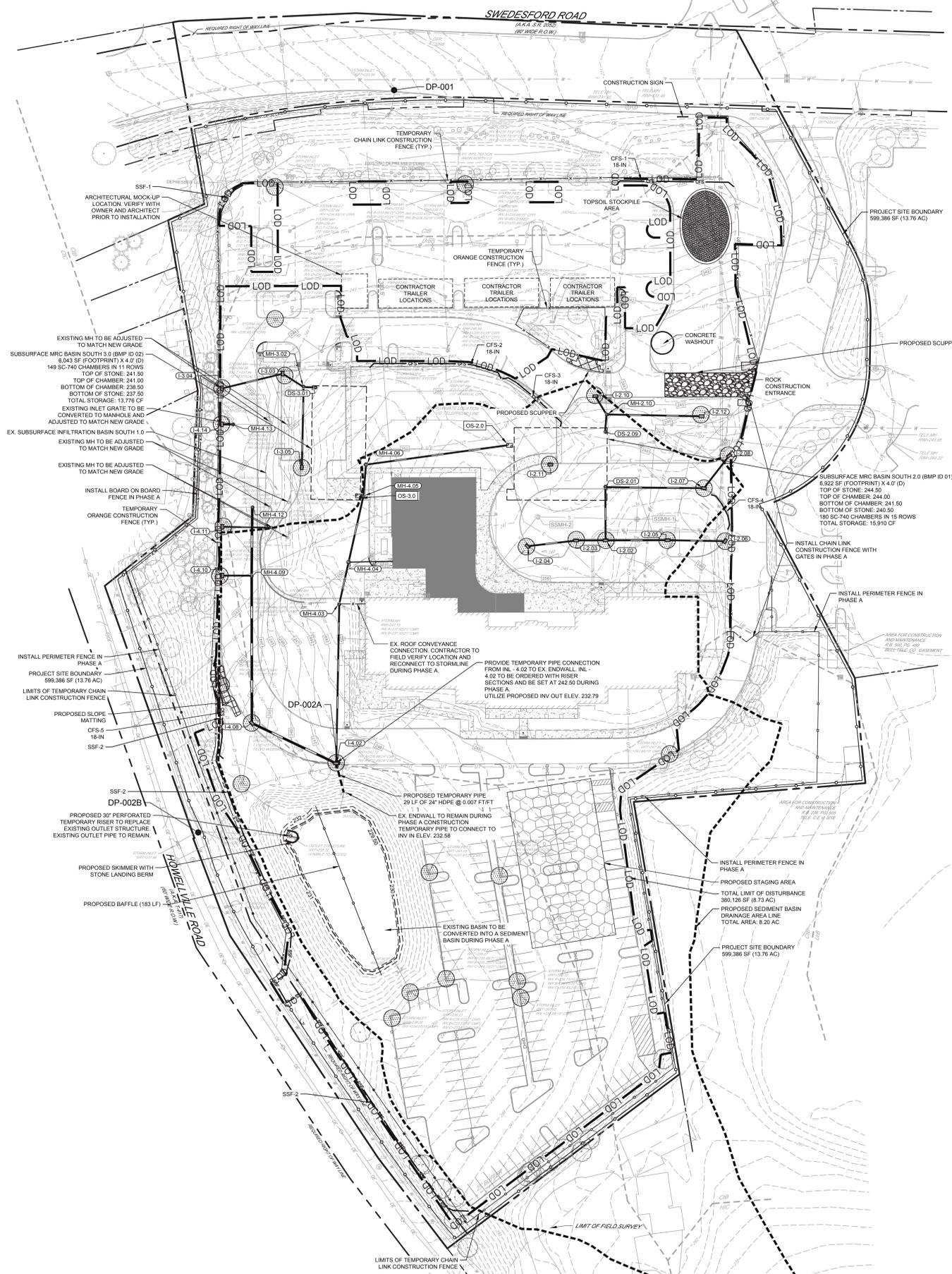


NOT FOR CONSTRUCTION



LOCATION MAP
Scale: 1" = 500'



E&S LEGEND:

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED INLET PROTECTION
- PROPOSED SUPER SILT FENCE
- PROPOSED COMPOST FILTER SOCK
- PROPOSED SLOPE MATTING
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED CONCRETE WASHOUT
- PROPOSED SKIMMER AND TEMP RISERS
- CHANNEL DRAINAGE AREA
- SEDIMENT TRAP DRAINAGE AREA
- PROJECT SITE BOUNDARY
- PROPOSED BAFFLE
- LIMITS OF TEMPORARY CHAIN LINK CONSTRUCTION FENCE

SOIL TABLE

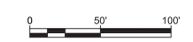
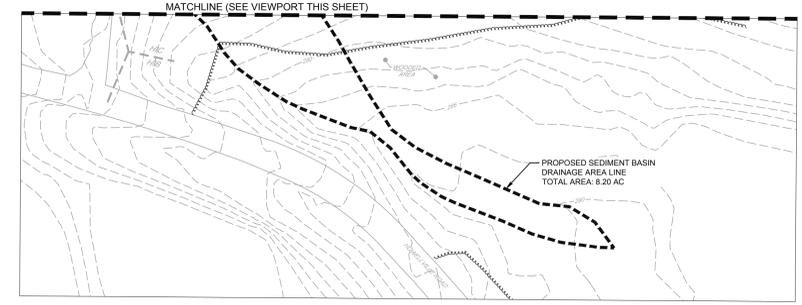
SYMBOL	NAME	HYDROLOGIC GROUP	SLOPES	HYDRIC	DEPTH TO		LIMITATIONS	RESOLUTION NOTES
					WATER TABLE (IN)	BEDROCK (IN)		
CIB	CONESTOGA SILT LOAM	B	3-8%	NO	>80	60-99	MODERATE SOMEWHAT LIMITED	#2 - #6 SEE RESOLUTION NOTES
CIC	CONESTOGA SILT LOAM	B	8-15%	NO	>80	60-99	MODERATE VERY LIMITED	
HIC	HOLLINGER SILT LOAM	B	8-15%	NO	>80	60-99	MODERATE VERY LIMITED	
U/B	URBAN LAND	-	0-8%	NO	-	-	NONE NOT RATED	#1 SEE RESOLUTION NOTES

RESOLUTION NOTES:

- DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE: SHOULD A HIGH GROUND WATER TABLE BE ENCOUNTERED DURING CONSTRUCTION, WATER WILL BE DRAINED AWAY FROM DISTURBED AREAS TO A WELL VEGETATED AREA OR A PLACED COMPOST FILTER SOCK PRIOR TO BEING DISCHARGED OFF SITE. SATURATED SOILS THE REQUIRE COMPACTION WILL BE DRIED PRIOR TO BEING USED ON SITE.
- PIPING: AREAS OF EMBANKMENTS WITH PIPES PASSING THROUGH THEM SHALL HAVE ANTI-SEEP COLLARS INSTALLED PER THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTIONS (PA DEP) EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM.
- CUT BANKS CAVES - ALMOST ALL PENNSYLVANIA SOILS ARE SUSCEPTIBLE TO CAVING OF CUT BANKS. CUT SLOPES WILL BE STABILIZED AS SOON AS POSSIBLE WITH SEED AND MULCH OR EROSION CONTROL BLANKETS TO PREVENT SLIDING. SLOPES ARE DESIGNED TO NOT EXCEED 2H:1V.
- CORROSIVE TO CONCRETE/STEEL PIPE: PIPES TO BE USED ON SITE SHALL BE HDPE OR COATED STEEL.
- POTENTIAL SINKHOLE: SHOULD A SINKHOLE BE ENCOUNTERED DURING CONSTRUCTION, REPAIR SHOULD BE DONE UNDER THE DIRECT OBSERVATION AND SUPERVISION OF A PROFESSIONAL GEOLOGIST OR LICENSED GEOTECHNICAL ENGINEER.
- LOW STRENGTH - MOST OF PENNSYLVANIA SOILS (73%) HAVE RELATIVELY LOW STRENGTH. PRECAUTIONS WILL BE TAKEN TO PREVENT SLOPE FAILURES DUE TO IMPROPER CONSTRUCTION PRACTICES. SOILS WILL BE EVALUATED DURING CONSTRUCTION TO DETERMINE WHETHER ADDITIONAL MEASURES WILL NEED TO BE TAKEN.

GEOLOGY NOTE:

STATE PENNSYLVANIA
NAME: CONESTOGA FORMATION
GEOLOGIC AGE: ORDOVICIAN AND CAMBRIAN
ORIGINAL MAP LABEL: OCC
PRIMARY ROCK TYPE: LIMESTONE
SECONDARY ROCK TYPE: SHALE,
CONGLOMERATIC LIMESTONE, PHYLLITE



NOT FOR CONSTRUCTION

PLOTTED: 2/25/25 4:57PM BY: 10017101 PROJECT: 24-037
 PLOTTER: HP DesignJet 2400 Series
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	2025-03-28	ISSUE FOR

- ONCE THE CONSTRUCTION ACTIVITIES NO LONGER REQUIRE HEAVY EQUIPMENT FOR ITS CONSTRUCTION, THE CONTRACTOR SHALL SWEEP ALL PAVEMENT AREAS AND INSTALL THE FINAL WEARING COURSE. PERFORM PAVEMENT LANE STRIPING AS INDICATED ON THE APPROVED PLANS. REMOVE ALL REMAINING ACCESS BARRIERS.
- PRIOR TO NOT SUBMISSION, ALL PCSM FACILITIES SHALL BE INSPECTED FOR FUNCTIONALITY AS THEY WERE INSTALLED DURING ACTIVE CONSTRUCTION.

CONSTRUCTION SEQUENCE - SUBSURFACE MRC BASIN (BMP ID 01 & 02)

- CRITICAL STAGE - SUBSURFACE MRC BASIN CONSTRUCTION SHALL PROCEED ACCORDING TO THE APPROVED PLANS AND DETAILS. AN AS-BUILT PLAN OF THE STORMWATER FACILITY IS REQUIRED TO CLOSE OUT THE NPDES PERMIT AT THE END OF CONSTRUCTION. A LICENSED SURVEYOR WILL NEED TO SIGNSEAL THIS PLAN. A SURVEY CREW SHOULD BE RETAINED TO FIELD SURVEY CRITICAL ASPECTS OF THE CONSTRUCTION (I.E. BASIN BOTTOM, PIPE INVERTS, ETC). A LICENSED PROFESSIONAL, KNOWLEDGEABLE IN THE DESIGN AND CONSTRUCTION OF STORMWATER BMPs, PREFERABLY THE DESIGN ENGINEER SHALL BE ON-SITE TO MONITOR THE FOLLOWING STAGES OF THE CONSTRUCTION OF THE SURFACE INFILTRATION BED.**
 - INSPECT BOTTOM OF BMP BOTTOM SHALL BE UNCOMPACTED SUBGRADE.
 - INSPECT THE STONE PRIOR TO PLACEMENT TO ENSURE IT MEETS THE DESIGN REQUIREMENTS.
 - INSPECT GEOTEXTILE PRIOR TO PLACEMENT OF STONE.
 - INSPECT THE OUTLET STRUCTURE TO ENSURE CONSTRUCTION IS PER THE APPROVED PLANS AND DETAILS.
 - INSPECT TOP OF STONE PRIOR TO WRAPPING WITH GEOTEXTILE.

- PROTECT THE BASIN FROM ALL SEDIMENT DISCHARGE. UPSTREAM AREAS TRIBUTARY TO THE BASIN ARE TO BE STABILIZED PRIOR TO ANY RUNOFF ENTERING THE SYSTEM. IF TRIBUTARY AREAS ARE NOT STABILIZED, INLETS UPSTREAM OF THE BASIN SHALL BE TEMPORARILY BLOCKED. STABILIZED GROUND IS DEFINED AS ANY AREA THAT HAS ACHIEVED 70% PERENNIAL VEGETATIVE COVER SUFFICIENT TO PREVENT ACCELERATED EROSION.

- EXCAVATE SOIL TO THE DEPTH SPECIFIED, PLACING SOIL IN STOCKPILE. SPECIAL CARE SHOULD BE TAKEN TO ENSURE THAT THE AREA WITHIN THE SUBSURFACE MRC BASIN ARE NOT COMPACTED. IT IS RECOMMENDED THAT THE CONTRACTOR SECURE THE BASIN CONSTRUCTION SO THAT NO HEAVY EQUIPMENT IS LOCATED WITHIN THE BASIN BOTTOM AT ANY TIME. THIS MAY REQUIRE THE BASIN TO BE CONSTRUCTED IN SECTIONS.

CRITICAL STAGES FOR ALL CRITICAL STAGES, THE CRITICAL ITEMS ARE A MINIMUM. IF PROBLEMS OR UNDESIRABLE CONDITIONS ARE OBSERVED, THE ENGINEER SHOULD BE NOTIFIED AND SHOULD BE PRESENT ON SITE FOR ANY NEW DESIGN ELEMENTS.

CONSTRUCTION SEQUENCE:

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE WILL BE COMPLETED IN COMPLIANCE WITH CHAPTER 102 REGULATIONS BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO ONE WORKING DAY PER 100 LINEAL FEET OF DISTURBED AREA.

CONSTRUCTION WILL BEGUN UPON RECEIPT OF ALL REQUIRED PERMITS FROM THE TOWNSHIP PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND THE CONSERVATION DISTRICT.

AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL WRITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LAND OWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARER, DESIGNATED LICENSED PROFESSIONAL, AND A REPRESENTATIVE FROM THE CHESTER COUNTY CONSERVATION DISTRICT TO SCHEDULE A PRE-CONSTRUCTION MEETING. THE DESIGNATED LICENSED PROFESSIONAL IS REQUIRED TO ATTEND THIS MEETING. ALSO, AT LEAST 3 WORKING DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM, INC. AT 1-800-242-1776 FOR ALL BURIED UTILITY LOCATIONS.

BEFORE IMPLEMENTING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS TO OTHER PLANS WHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED EROSION CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE CHESTER COUNTY CONSERVATION DISTRICT.

CONTRACTOR SHALL PERFORM AN INSPECTION OF THE DESIGNATED LICENSED PROFESSIONAL FACILITIES AT THE END OF EACH WORKING DAY.

THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 et seq. AND 287.1 et seq.

THE OPERATOR SHALL ASSURE THAT THE EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE CONSERVATION DISTRICT AND IS BEING IMPLEMENTED, AND MAINTAINED FOR ALL PROPOSED SOIL/ROCK SPOIL AND BORROW AREAS ON OR OFFSITE.

UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY THAT WILL EXCEED 4 DAYS OR ANY STAGED IN REVISIONS TO THE CONSTRUCTION SITE, THE OPERATOR WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION, (PLEASE NOTE THAT HYDROSEED IS NOT CONSIDERED STABILIZATION UNTIL IT GERMINATES). HAVE OR STRAW MULCH MUST BE APPLIED AT 3 TO 5 TONS PER ACRE.

CRITICAL STAGES FOR ALL CRITICAL STAGES, THE CRITICAL ITEMS ARE A MINIMUM. IF PROBLEMS OR UNDESIRABLE CONDITIONS ARE OBSERVED, THE ENGINEER SHOULD BE NOTIFIED AND SHOULD BE PRESENT ON SITE FOR ANY NEW DESIGN ELEMENTS.

PHASE A

- PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH ALL NOTES ON THE APPROVED EROSION AND SEDIMENT POLLUTION CONTROL PLANS
- PRIOR TO PROCEEDING WITH CONSTRUCTION, CONFIRM THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES, MAINTAIN AND PROTECT ALL EXISTING UTILITIES TO REMAIN AT ALL TIMES.
- DELINEATE LIMIT OF DISTURBANCE AS SHOWN ON THE APPROVED EROSION AND SEDIMENT POLLUTION CONTROL PLANS AND PROTECT THE CONSTRUCTION SITE FROM UNAUTHORIZED PEDESTRIAN AND VEHICULAR ACCESS BY INSTALLING ORANGE CONSTRUCTION FENCE WHERE APPLICABLE.

- INSTALL PERIMETER CONTROLS AROUND THE SITE WHICH INCLUDE COMPOST FILTER SOCKS, DIVERSION SOCKS, AND SUPER SILT FENCE. THESE CONTROLS SHALL BE INSTALLED BY AN APPROVED CONTRACTOR FAMILIAR WITH THE INSTALLATION PROCEDURES. CONTRACTORS SHALL INSPECT THE CONSTRUCTION DISTRICT AND IS BEING IMPLEMENTED, AND NECESSARY REPAIRS SHALL BE PERFORMED IMMEDIATELY AND ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN REACHING HALF THE HEIGHT OF THE COMPOST FILTER SOCKS.
- THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT ACCUMULATION REACH THE ABOVE GROUND HEIGHT OF THE SOCKS.

TEMPORARY STABILIZATION & PERMANENT STABILIZATION:

- HAY OR STRAW MULCH MUST BE APPLIED AT 3 TO 5 TONS PER ACRE.
- MULCH WITH MULCH CONTROL, NETTING OR EROSION CONTROL, BLANKETS MUST BE INSTALLED ON ALL EXPOSED EARTH SURFACES.
- STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.
- GRADED AREAS ARE TO BE TEMPORARILY SEEDED AND MULCHED IMMEDIATELY FOLLOWING ESTABLISHMENT PROCEDURES. TEMPORARY SEED SHALL BE ANNUAL RYE GRASS APPLIED AT THE RATES SPECIFIED. MULCH SHALL BE HAY OR STRAW APPLIED AT THE RATE OF AT LEAST 3 TONS PER ACRE.
- LIME SHALL BE APPLIED TO ALL TEMPORARILY SEEDED AREAS AT A MINIMUM RATE AS SPECIFIED.
- TEMPORARILY SEEDED AREAS SHALL HAVE 5-5-5 FERTILIZER APPLIED AT THE MINIMUM RATES SPECIFIED.

TEMPORARY SEEDING NOTE:

- TEMPORARY STABILIZATION OF ALL EXPOSED EARTH SURFACES WHERE CONSTRUCTION ACTIVITY HAS CEASED, INCLUDING TOPSOIL, STOCKPILES SHALL BE STABILIZED IMMEDIATELY BY THE FOLLOWING METHODS AND MATERIALS.
- APPLY ONE (1) TON OF AGRICULTURAL GRADE LIMESTONE PER ACRE PLUS FERTILIZER (10-10-10) AT THE RATE OF 500 LBS PER ACRE AND WORK INTO SOIL WHEREVER POSSIBLE.
- APPLY SPECIFIED SEED AND SEEDING RATE ACCORDING TO THE TEMPORARY SEEDINGS FOR CRITICAL AREAS TABLE SHEET
- AFTER SEEDING MULCH WITH HAY OR STRAW AT A RATE OF THREE (3) TONS PER ACRE.

PERMANENT SEEDING SITE PREPARATION

- PERMANENT STABILIZATION OF THE ALL EXPOSED EARTH SURFACES AFTER THE COMPLETION OF THE SITE GRADING AND IMPROVEMENTS SHALL BE ACCOMPLISHED BY THE FOLLOWING METHODS AND MATERIALS:
- AFTER INSTALLATION OF THE NEEDED SURFACE WATER CONTROL MEASURES, PERFORM ALL CULTURAL OPERATIONS AT RIGHT ANGLES TO THE SLOPE.
 - OBTAIN SOILS TESTING FROM AN INDEPENDENT LABORATORY TO DETERMINE NECESSARY SOILS MODIFICATIONS.
 - IN THE ABSENCE OF SOILS TESTING, APPLY AGRICULTURAL GRADE LIMESTONE AT THE MINIMUM RATE OF SIX TONS LIMESTONE PER ACRE (27 LBS. PER 1,000 SQUARE FEET).
 - IN THE ABSENCE OF SOILS TESTING, APPLY FERTILIZER AT THE RATE OF 1000 LBS. OF 10-20-20 OR EQUIVALENT PER ACRE.
 - SMOOTH AND FIRM SEEDED AREAS WITH CULTIPACKER, OR OTHER SIMILAR EQUIPMENT, PRIOR TO SEEDING.
 - APPLY SPECIFIED SEED AND SEEDING RATES ACCORDING TO THE PERMANENT SEEDING RATES FOR CRITICAL AREAS TABLE SHEET.
 - COVER GRASS SEEDS WITH 1/4 INCH OF TOPSOIL WITH SUITABLE EQUIPMENT.
 - APPLY STRAW MULCH AT A RATE OF 3 TO 5 TONS PER ACRE IMMEDIATELY AFTER SEEDING.
 - USE SOD WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND IT IS IMPORTANT TO GET A QUICK VEGETATIVE COVER IN ORDER TO PREVENT GULLYING. USE SOD AT THE DIRECTION OF THE TOWNSHIP ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
 - HYDROSEEDING SHALL BE AN ACCEPTABLE ALTERNATIVE TO THE ABOVE PROVIDED WHEN PERFORMED IN ACCORDANCE WITH PENNDOT PUB. 408 SECTIONS 604 AND 605 AND APPROVED BY THE SITE ENGINEER.

PHASE B

- BEGIN REMOVAL OF THE ASPHALT PARKING LOT AND DRIVEWAY SOUTH OF THE EXISTING BUILDING.
- CONCURRENTLY REMOVE ANY EXISTING UTILITIES IN THE SOUTHERN PARKING LOT IN ACCORDANCE WITH THE DEMOLITION PLAN.
- INSTALL THE RETAINING WALL LOCATED ON THE SOUTH WESTERN PART OF THE SITE.
- CONCURRENTLY BEGIN ROUGH GRADING FOR THE PLAYGROUND AREAS, ATHLETIC FIELD AND DROP OFF DRIVEWAY SOUTH OF THE BUILDING.
- CONCURRENTLY BEGIN INSTALLATION OF THE REMAINING STORM CONVEYANCE PIPING AS SHOWN ON THE PLANS. PROPOSED INLETS SHALL BE PROTECTED WITH INLET FILTER BAGS AFTER INSTALLATION.

CRITICAL STAGE: ONCE AREA EAST OF THE SEDIMENT BASIN HAS ACHIEVED A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER SUFFICIENT TO RESIST ACCELERATED EROSION, CONVERT THE EXISTING SEDIMENT BASIN INTO SUBSURFACE DETENTION BASIN SOUTH 4.0 (BMP ID 03) IN ACCORDANCE WITH THE SEQUENCE SHOWN ON THIS SHEET.

- CONCURRENTLY BEGIN INSTALLATION OF CONCRETE CURB, STONE SUBBASE AND BINDER COURSE FOR THE DROP OFF DRIVEWAY SOUTH OF THE EXISTING BUILDING.
- ONCE THE SUBSURFACE DETENTION BASIN IS INSTALLED, BEGIN ROUGH GRADING FOR THE EROSION ACCESS LANE AND THE REMAINING PLAYGROUND AREAS AND ATHLETIC FIELD.
- INSTALL SIDEWALKS, FINAL GRADING AND LANDSCAPING.

CRITICAL STAGE: ONCE AREA HAS ACHIEVED A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER SUFFICIENT TO RESIST ACCELERATED EROSION, REMOVE TEMPORARY EROSION AND SEDIMENTATION BMPs, INCLUDING ALL COMPOST FILTER SOCKS, INLET PROTECTION, SUPER SILT FENCE AND DIVERSION SOCKS. ANY AREA DISTURBED DURING CONSTRUCTION OF A TEMPORARY BMP SHALL BE IMMEDIATELY STABILIZED WITH SEEDING AND STRAW MULCH.

UNFORSEEN EROSION CONDITIONS:

- SHOULD UNFORSEEN EROSION CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND/OR SEDIMENT DISPLACEMENT. STOCKPILES OF WOOD CHIPS, WOOD BALES, CRUSHED STONE AND OTHER UNTIL ROADWAY SURFACE MATERIALS SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION.
- THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF APPENDIX 6A, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, D.E.P. SUB-PART C, PROTECTION OF NATURAL RESOURCES, ARTICLE II, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.
- CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT EXISTING TREES AND SHRUBS WHICH ARE TO REMAIN IN PLACE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES, INCLUDING REPLACING TREES OR SHRUBS IN KIND IF NECESSARY.
- IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING REGULARLY TRACKED ONTO PUBLIC STREETS, THE CONTRACTOR SHALL BE PREPARED, UPON WRITTEN NOTICE GIVEN BY THE MUNICIPALITY OR THE CONSERVATION DISTRICT, TO PROVIDE THE WASHING FACILITIES AT ALL ROCK CONSTRUCTION ENTRANCES.

EROSION & SEDIMENTATION MAINTENANCE:

- DURING THE LIFE OF THE PROJECT, ALL EROSION AND SEDIMENTATION CONTROL DEVICES MUST BE PROPERLY MAINTAINED. MAINTENANCE SHALL INCLUDE THE INSPECTION OF EROSION CONTROL FACILITIES AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS, UNLESS MORE FREQUENT INSPECTION IS REQUIRED. IMMEDIATELY PERFORM CLEANOUT, REPAIR, AND REPLACEMENT OF THE FACILITIES AS NEEDED. (REGRADE, RESEED AND MULCH WASHED OUT AREAS AS NEEDED.)
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION BMPs MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL SITE INSPECTIONS WILL BE CONDUCTED BY AN INSPECTOR DESIGNATED BY THE CONTRACTOR. THE CONTRACTOR SHALL RECORD AND DATE, TIME AND NAME OF THE PERSON CONDUCTING THE INSPECTION. THE INSPECTION LOG WILL BE KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE TO DEP UPON REQUEST.
- WHERE BMPs ARE FOUND TO FAIL TO ALLEViate EROSION OR SEDIMENT POLLUTION THE PERMITTEE OR CO-PERMITTEE NOTIFY THE BERKS COUNTY CONSERVATION DISTRICT OF THE FAILURE AND SHALL INCLUDE THE FOLLOWING INFORMATION:
 - THE LOCATION AND SEVERITY OF THE BMP'S FAILURE AND ANY POLLUTION EVENTS.
 - ALL STEPS TAKEN TO REDUCE, ELIMINATE AND PREVENT THE RECCURENCE OF THE NON-COMPLIANCE.
 - THE TIME FRAME TO CORRECT THE NONCOMPLIANCE, INCLUDING THE EXACT DATES WHEN THE ACTIVITY WILL BE COMPLETED.
 - ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADE, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENTATION BMP'S FAIL, TO PERFORM AS EXPECTED, OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE REMOVED.

CLEAN FILL & ENVIRONMENTAL DUE DILIGENCE:

- 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. 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.
- ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING AS WELL AS THE PROPERTY RECEIVING THE FILL. A COPY OF FORM FP-001 CAN BE FOUND AT THE END OF THESE INSTRUCTIONS.
- ENVIRONMENTAL DUE DILIGENCE: THE APPLICANT MUST PERFORM ENVIRONMENTAL DUE DILIGENCE TO DETERMINE IF THE FILL MATERIAL IS ASSOCIATED WITH THE CRITICAL QUALITY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING BUT NOT LIMITED TO VISUAL, PROPERTY INSPECTIONS, ELECTRONIC DATA BASES, SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENING, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR SURVEYS. 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 IS TRACED OUT TO PUBLIC STREETS SHALL BE COLLECTED AND RETURNED TO THE SITE OR OTHERWISE PROPERLY REMOVED BY A STREET SWEEPER.
- EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3% OR STEEPER WITHIN 50 FEET OF SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
- WATER 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, BURNED, DUMPED, OR DISCHARGED AT THIS SITE.

- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BAG, SUCH AS A 60" DIAMETER WATER BAG OR EQUIVALENT, OVER NON-DISTURBED AREAS.
- VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM LOTS, VEHICLES AND EQUIPMENT MAY ONLY ENTER AND EXIT THE CONSTRUCTION SITE VIA A STABILIZED ROCK CONSTRUCTION ENTRANCE FROM THE LOCAL DRIVE.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. THE OPERATOR WILL MAINTAIN AND MAKE AVAILABLE TO CHESTER COUNTY CONSERVATION DISTRICT COMPLETE WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADE, 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 ARE TO BE REQUIRED.
- A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE, AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.

TOPSOIL DEFINITION & APPLICATION:

TOPSOIL IS DEFINED AS FRIABLE CLAY LOAM SURFACE SOIL FOUND IN A DEPTH OF 10" NOT LESS THAN FOUR (4) INCHES. TO BE SATISFACTORY, TOPSOIL SHALL BE FREE OF SUBSOIL, CLAY LUMPS, STONES, AND OTHER OBJECTS OVER THREE QUARTER (3/4) INCHES IN DIAMETER, AND WITHOUT WEEDS, ROOTS, AND OTHER OBJECTIONABLE MATERIALS. TOPSOIL SHALL CONTAIN AT LEAST FIVE (5) PERCENT ORGANIC MATTER DETERMINED BY LOSS ON IGNITION OR MOISTURE FREE SAMPLES DRIED IN ACCORDANCE WITH THE CURRENT METHOD OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. THE ACTIVITY RANGE SHALL BE PH 5.0 TO PH 7.0 INCLUSIVE. TOPSOIL SHALL ALSO MEET THE REQUIREMENTS OF PENNDOT PUBLICATION 408 SPECIFICATIONS, SECTION 800, INCLUDING ALL SUBSECTIONS. LATEST EDITION.

GRADED AREAS SHOULD BE SCARIFIED OR OTHERWISE LOOSENEO TO A DEPTH OF 3 TO 5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SUBGRADE AND TO PROVIDE A SLOUGHED SURFACE TO PREVENT TOPSOIL FROM SLIDING DOWN SLOPE. TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA. SPREADING SHALL BE DONE IN A MANNER THAT SOODING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE. IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOIL PLACEMENT SHALL BE CORRECTED IN ORDER TO PREVENT FORMATION OF DEPRESSIONS UNLESS SUCH DEPRESSIONS ARE PART OF THE PCSM PLAN. TOPSOIL SHOULD NOT BE PLACED WHILE THE UNDERLYING SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEED PREPARATION. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES. COMPACTED SOILS SHOULD BE SCARIFIED TO 12 INCHES ALONG COURSE WHEREVER POSSIBLE PRIOR TO SEEDING. SOILS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING.

DEPTH (IN)	PER 1,000 SQUARE FEET	PER ACRE
1	31	134
2	62	268
3	93	403
4	124	537
5	155	672
6	186	806
7	217	940
8	248	1,074

CUBIC YARDS OF TOPSOIL REQUIRED FOR APPLICATION TO VARIOUS DEPTHS

COMPLETION CERTIFICATE AND FINAL PLANS:

WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES AUTHORIZED BY THIS PERMIT, INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM BMPs IN ACCORDANCE WITH THE APPROVED PCSM PLAN, OR UPON SUBMISSION OF THE NOT IF SOONER, THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT A STATEMENT SIGNED BY A LICENSED PROFESSIONAL AND BY THE PERMITTEE CERTIFYING THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT AND THE APPROVED E&S AND PCSM PLANS.

RECYCLE & DISPOSAL OF MATERIALS:

- THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTE IN ACCORDANCE WITH THE DEPARTMENTS' SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ. 271.1, AND 287.1 ET SEQ. NO BUILDING MATERIAL OR WASTES AT THE SITE.
- CONSTRUCTION WASTES INCLUDE, BUT NOT LIMITED TO:
 - INLET PROTECTION
 - PUMPED WATER FILTER BAGS
- ANY WASTE OR BORROW AREA MUST HAVE AN E&S PLAN REVIEWED AND APPROVED BY CHESTER COUNTY CONSERVATION DISTRICT PRIOR TO BEING ACTIVATED.

COMPLETION CERTIFICATE AND FINAL PLANS

WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES AUTHORIZED BY THIS PERMIT, INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM BMPs IN ACCORDANCE WITH THE APPROVED PCSM PLAN, OR UPON SUBMISSION OF THE NOT IF SOONER, THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT A STATEMENT SIGNED BY A LICENSED PROFESSIONAL AND BY THE PERMITTEE CERTIFYING THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT AND THE APPROVED E&S AND PCSM PLANS.

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COMPLETION CERTIFICATE AND FINAL PLANS

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INLET PROTECTION:

- EARTHEN BERM TO BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM TO BE MAINTAINED UNTIL ROAD IS PAVED. SIX INCH ROADWAY ASPHALT BERM TO BE MAINTAINED UNTIL ROADWAY SURFACE MATERIALS ARE IN PLACE AND RECEIVED BY THE CONSERVATION DISTRICT.
- INSPECT AFTER EACH STORM EVENT AND ON A WEEKLY BASIS. NEEDED REPAIRS SHOULD BE INITIATED IMMEDIATELY FOR ANY PROBLEMS.
- SEDIMENT MUST BE REMOVED FROM STORM WATER INLET PROTECTION AFTER EACH RUNOFF EVENT.

ELONGATED ROCK CONSTRUCTION ENTRANCE:

- ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE PERMITTED LIMITATIONS BY AGRIC ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.
- SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.
- NOT WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGEWAYS IS NOT ACCEPTABLE.
- INSPECT ON A WEEKLY BASIS, BEFORE ANY ANTICIPATED PRECIPITATION EVENTS AND AFTER ALL PRECIPITATION EVENTS. NEEDED REPAIRS SHOULD BE INITIATED IMMEDIATELY AFTER INSPECTION.

PUMPED FILTER BAG:

- NO FILTERING DEVICE IS REQUIRED FOR WATER PUMPED DIRECTLY FROM A STREAM CHANNEL AS LONG AS THE DEVICE IS MAINTAINED FOR THIS PURPOSES.
- THE MAXIMUM PUMPING RATE FOR ANY BAG IN USE OR PROPOSED USE ON A SITE SHOULD BE AVAILABLE AT THE SITE AT ALL TIMES DURING PUMPING OPERATIONS. PUMPING RATES WILL VARY DEPENDING ON THE SIZE OF THE FILTER BAG, AND THE TYPE AND AMOUNT OF SEDIMENT DISCHARGE FROM THE BAG.

SEDIMENT BASINS:

- APPROVAL OF THE USE OF SKIMMERS DOES NOT APPROVE USE OF ANY SKIMMER(S) IN VIOLATION OF ANY PATENT, PATENT RIGHTS, AND/OR PATENT LAW.
- BARRIERS MUST BE INSTALLED TO ALLOW BASIN MAINTENANCE AND CLEAN OUT.
- UPON INSTALLATION OF THE SEDIMENT BASIN RISERS, AN IMMEDIATE INSPECTION OF THE RISERS) SHALL BE CONDUCTED BY A QUALIFIED SITE REPRESENTATIVE AND CHESTER COUNTY CONSERVATION DISTRICT. THE INSPECTION LOG WILL BE NOTIFIED IN WRITING THAT THE RISERS IS SEALED. SEDIMENT BASINS MUST BE PROTECTED FROM UNAUTHORIZED ACTS OF THIRD PARTIES. CLOGGED OR DAMAGED SILLWAYS SHALL BE IMMEDIATELY RESTORED TO THE DESIGN SPECIFICATIONS. OTHER REQUIRED MAINTENANCE SHALL BE IMMEDIATELY RESTORED WITHIN 5 WORKING DAYS OF THE INSPECTION.

EROSION CONTROL BLANKETS (ES08M MAT):

- SIGNON MAT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- INSPECT ON A WEEKLY BASIS, BEFORE ANY ANTICIPATED PRECIPITATION EVENTS AND AFTER ALL PRECIPITATION EVENTS. NEEDED REPAIRS SHOULD BE INITIATED IMMEDIATELY AFTER INSPECTION.

DIVERSION SOCK:

- INSPECT AFTER EACH STORM EVENT AND ON A WEEKLY BASIS. NEEDED REPAIRS SHOULD BE INITIATED IMMEDIATELY AFTER INSPECTION.
- DIVERSION SOCKS ARE TO BE MAINTAINED, AND REPLACED IF NECESSARY, DURING THE ENTIRE CONSTRUCTION PERIOD UNTIL A PERMANENT VEGETATIVE COVER WITHIN THE TRIBUTARY AREA IS ESTABLISHED.
- CONSTRUCT DIVERSION SOCKS ALONG THE DOWNSTREAM SIDE OF ALL PROPOSED CUT AND FILL ACTIVITIES.
- THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT ACCUMULATION REACH THE ABOVE GROUND HEIGHT OF THE SOCKS.

TEMPORARY STABILIZATION & PERMANENT STABILIZATION:

- HAY OR STRAW MULCH MUST BE APPLIED AT 3 TO 5 TONS PER ACRE.
- MULCH WITH MULCH CONTROL, NETTING OR EROSION CONTROL, BLANKETS MUST BE INSTALLED ON ALL EXPOSED EARTH SURFACES.
- STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.
- GRADED AREAS ARE TO BE TEMPORARILY SEEDED AND MULCHED IMMEDIATELY FOLLOWING ESTABLISHMENT PROCEDURES. TEMPORARY SEED SHALL BE ANNUAL RYE GRASS APPLIED AT THE RATES SPECIFIED. MULCH SHALL BE HAY OR STRAW APPLIED AT THE RATE OF AT LEAST 3 TONS PER ACRE.
- LIME SHALL BE APPLIED TO ALL TEMPORARILY SEEDED AREAS AT A MINIMUM RATE AS SPECIFIED.
- TEMPORARILY SEEDED AREAS SHALL HAVE 5-5-5 FERTILIZER APPLIED AT THE MINIMUM RATES SPECIFIED.
- ESTABLISH PERMANENT SEEDING AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED. PERMANENT SEEDING SHALL BE AT THE RATES SPECIFIED. FERTILIZER AND LIME SHALL BE APPLIED AT THE MINIMUM RATES SPECIFIED.
- TEMPORARILY SEEDED AREAS SHALL HAVE HAY OR STRAW APPLIED AT THE RATE OF AT LEAST 3 TONS PER ACRE. ANY AREA WHERE HYDROSEED IS USED, MULCH IS NEEDED AT A MINIMUM RATE OF 3 TONS PER ACRE.
- A GEOTECHNICAL ENGINEER SHOULD BE PRESENT FOR CONSTRUCTION OF 2:1 SLOPES TO ENSURE STABILITY.

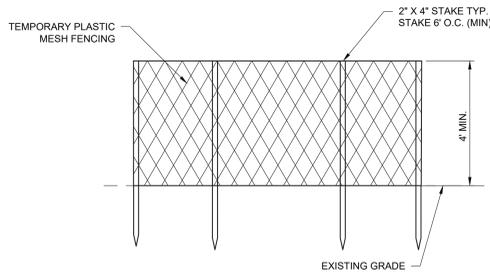
TEMPORARY SEEDING NOTE:

- TEMPORARY STABILIZATION OF ALL EXPOSED EARTH SURFACES WHERE CONSTRUCTION ACTIVITY HAS CEASED, INCLUDING TOPSOIL, STOCKPILES SHALL BE STABILIZED IMMEDIATELY BY THE FOLLOWING METHODS AND MATERIALS.
- APPLY ONE (1) TON OF AGRICULTURAL GRADE LIMESTONE PER ACRE PLUS FERTILIZER (10-10-10) AT THE RATE OF 500 LBS PER ACRE AND WORK INTO SOIL WHEREVER POSSIBLE.
- APPLY SPECIFIED SEED AND SEEDING RATE ACCORDING TO THE TEMPORARY SEEDINGS FOR CRITICAL AREAS TABLE SHEET
- AFTER SEEDING MULCH WITH HAY OR STRAW AT A RATE OF THREE (3) TONS PER ACRE.

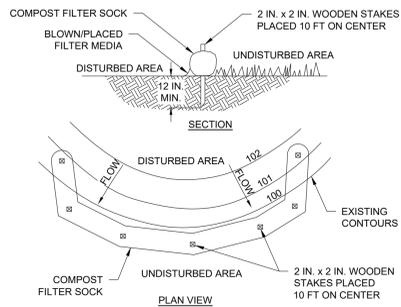
PERMANENT SEEDING SITE PREPARATION

- PERMANENT STABILIZATION OF THE ALL EXPOSED EARTH SURFACES AFTER THE COMPLETION OF

NOT FOR CONSTRUCTION



ORANGE CONSTRUCTION FENCE
NOT TO SCALE



COMPOST FILTER SOCKS				
SOCK NO.	DIA. (INCH)	LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)
CFS-1	18	NORTH EAST OF SUBSURFACE BASIN 2.0	3.5	476
CFS-2	18	NORTH WEST OF SUBSURFACE BASIN 2.0	1.6	287
CFS-3	18	NORTH WEST OF SUBSURFACE BASIN 2.0	2.2	233
CFS-4	18	SOUTH EAST OF SUBSURFACE BASIN 2.0	5.3	106
CFS-5	18	SOUTH WEST OF SUBSURFACE BASIN 3.0	5.9	175
CFS-6	18	WEST OF SUBSURFACE BASIN 4.0	5.1	207
CFS-7	18	SOUTH OF SUBSURFACE BASIN 4.0	1.2	112

NOTES:

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

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

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

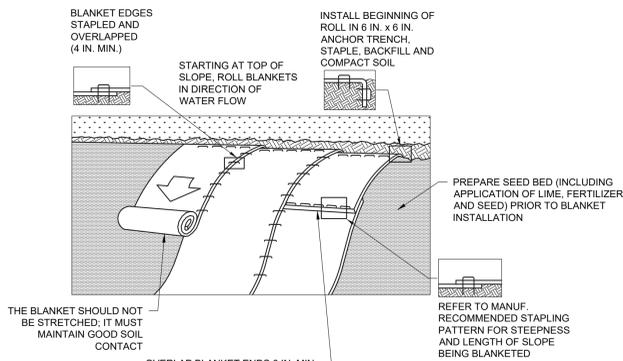
COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

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

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

COMPOST FILTER SOCK

NTS STANDARD CONSTRUCTION DETAIL #4-1



NOTES:

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

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

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

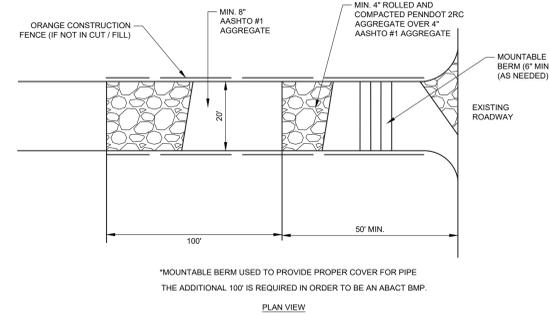
BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BARRIER LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BARRIER.

THE BARRIER SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BARRIERED AREA. DAMAGED OR DISPLACED BARRIERS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

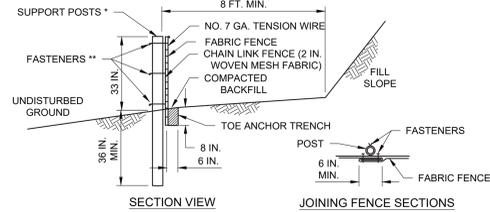
EROSION CONTROL BLANKET INSTALLATION

NTS STANDARD CONSTRUCTION DETAIL #11-1



ALTERNATE ROCK CONSTRUCTION ENTRANCE

NTS



* POSTS SPACED AT 10 FT. MAX. USE 2-1/2 IN. DIA HEAVY DUTY GALVANIZED OR ALUMINUM POSTS.

** CHAIN LINK TO POST FASTENERS SPACED AT 14 IN. MAX. USE NO. 9 GA. ALUMINUM WIRE OR NO. 9 GALVANIZED STEEL WIRE. FABRIC TO SHAIN FASTENERS SPACED AT 24 IN. MAX. ON CENTER.

NOTES:

FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3 OF THE PA DEP EROSION CONTROL MANUAL.

FABRIC WIDTH SHALL BE 42 IN. MINIMUM.

POSTS SHALL BE INSTALLED USING A POSTHOLE DRILL.

CHAIN LINK SHALL BE GALVANIZED NO. 11.5 GA. STEEL WIRE WITH 2-1/4 IN. OPENING, NO. 11 GA. ALUMINUM COATED STEEL WIRE IN ACCORDANCE WITH ASTM A-491, OR GALVANIZED NO. 9 GA. STEEL WIRE TOP AND BOTTOM WITH GALVANIZED NO. 11 GA. STEEL INTERMEDIATE WIRES. NO. 7 GAGE TENSION WIRE TO BE INSTALLED HORIZONTALLY THROUGH HOLES AT TOP AND BOTTOM OF CHAIN-LINK FENCE OR ATTACHED WITH HOG RINGS AT 5 FT MAX. CENTERS.

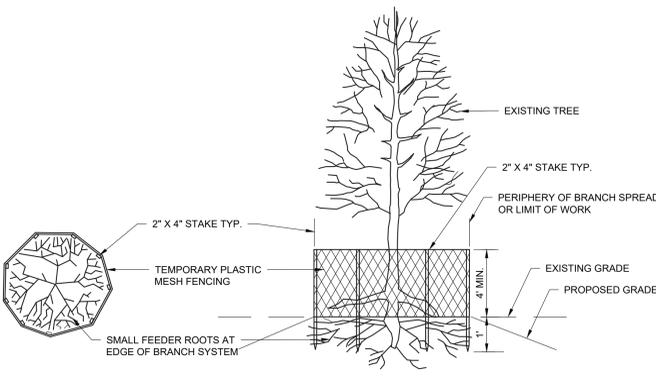
SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE.

FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

SUPER SILT FENCE

NOT TO SCALE



NOTES:

1. THOSE TREES WHICH ARE WITHIN TWENTY-FIVE (25) FEET OF ANY PROPOSED EXCAVATION OR GRADING OPERATION, OR IN ANY OTHER LOCATION DEEMED APPROPRIATE BY THE ENGINEER, SHALL BE PROTECTED BY INSTALLING AND MAINTAINING A FENCE AT THE DRIP LINE.

2. NO BOARDS OR OTHER MATERIAL SHALL BE NAILED TO TREES DURING CONSTRUCTION.

3. HEAVY EQUIPMENT OPERATORS SHALL AVOID DAMAGING EXISTING TREE TRUNKS AND ROOTS. FEEDER ROOTS SHALL NOT BE CUT CLOSER THAN TWENTY-FIVE (25) FEET FROM TREE TRUNKS.

4. TREE TRUNKS AND EXPOSED ROOTS DAMAGED DURING CONSTRUCTION SHALL BE PROTECTED FROM FURTHER DAMAGE BY BEING TREATED IMMEDIATELY.

5. TREE LIMBS DAMAGED DURING CONSTRUCTION SHALL BE PROPERLY PRUNED AND TREATED IMMEDIATELY.

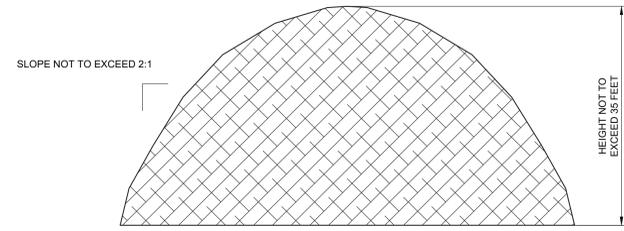
6. THE OPERATION OF HEAVY EQUIPMENT OVER ROOT SYSTEMS OF SUCH TREES SHALL BE MINIMIZED IN ORDER TO PREVENT SOIL COMPACTION.

7. DAMAGED TREES SHALL BE FERTILIZED TO AID IN THEIR RECOVERY.

8. CONSTRUCTION DEBRIS SHALL NOT BE DISPOSED OF NEAR OR AROUND TREES.

TREE PROTECTION FENCE

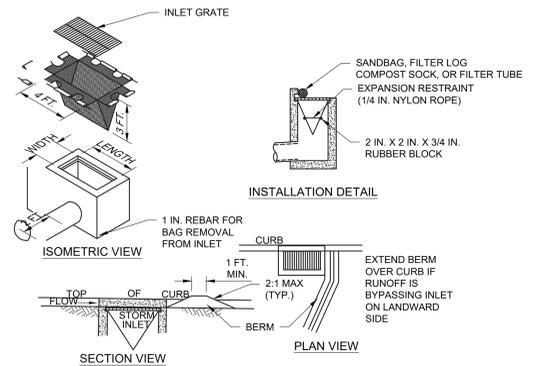
NTS



NOTE:
1. TEMPORARY TOP SOIL STOCKPILE IS TO BE SURROUNDED BY 24" COMPOST FILTER SOCK ON DOWNGRADE SIDE.
2. IMMEDIATELY APPLY TEMPORARY SEEDING TO ALL STOCKPILES

TOPSOIL STOCKPILE

NTS



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

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

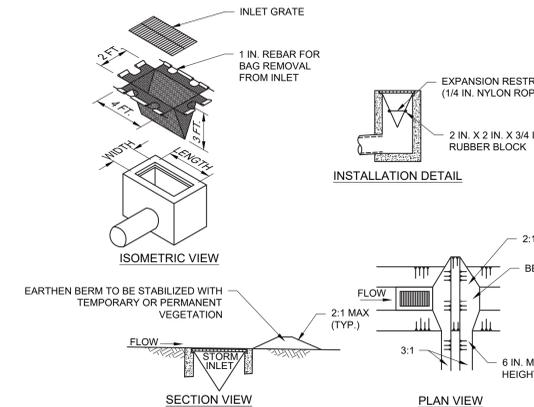
ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

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

FILTER BAG INLET PROTECTION- TYPE C INLET

NTS STANDARD CONSTRUCTION #4-15



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

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

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

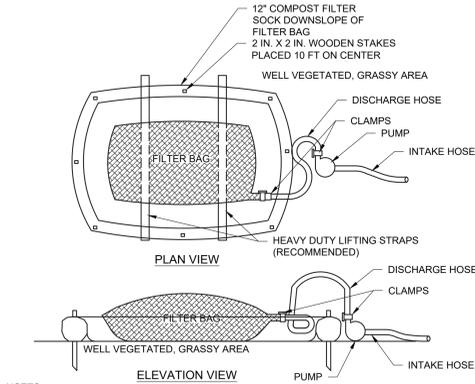
AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

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

FILTER INLET PROTECTION - TYPE M INLET

NTS STANDARD CONSTRUCTION DETAIL #4-16



NOTES:

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

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4854	60 LB/LIN
GRAB TENSILE	ASTM D-4832	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	300 PSI
UV RESISTANCE	ASTM D-4355	70%
ACS % RETAINED	ASTM D-4751	80 SIEVE

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

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

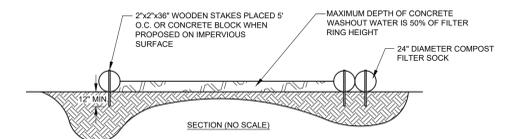
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

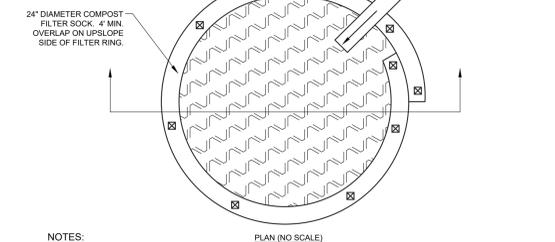
PUMPED WATER FILTER BAG

NTS STANDARD CONSTRUCTION DETAIL #3-16



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.



NOTES:

1. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.
2. WHENEVER COMPOST SOCK WASHOUTS ARE USED, A SUITABLE IMPERVIOUS GEOMEMBRANE SHOULD BE PLACED AT THE LOCATION OF THE WASHOUT. COMPOST SOCKS SHOULD BE STAKED IN THE MANNER RECOMMENDED BY THE MANUFACTURER AROUND THE PERIMETER OF THE GEOMEMBRANE SO AS TO FORM A RING WITH THE ENDS OF THE SOCK LOCATED AT THE UPSLOPE CORNER (AS SHOWN ABOVE). CARE SHOULD BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANE AT ALL LOCATIONS. WHERE NECESSARY, SOCKS MAY BE STACKED AND STAKED SO AS TO FORM A TRIANGULAR CROSS SECTION.
3. ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.

TYPICAL COMPOST SOCK/ CONCRETE WASHOUT

NTS STANDARD CONSTRUCTION DETAIL #4-16

ISSUE HISTORY

A	DATE	ISSUED FOR
	2025-03-28	RD ISSUE

SHEET TITLE
SITE CIVIL

EROSION AND SEDIMENTATION CONTROL DETAILS
DRAWING NUMBER

CS8502

PROJECT TEAM

CLIENT
Tredyffrin/Easttown School District
940 West Valley Road, Suite 1700
Wayne, PA 19087
(610) 240-1900

ARCHITECTURAL
Heckendorn Shiles Architects
347 East Conestoga Road
Wayne, PA 19087
610-994-3500

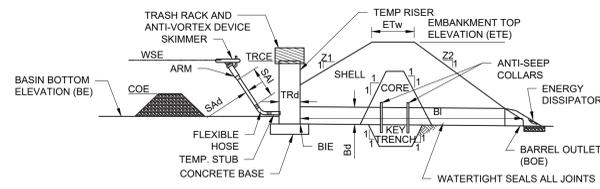
STRUCTURAL ENGINEER
A.W. Lookup Corporation
500 Fayette Street, Suite 100
Conshohocken, PA 19428
610-825-2600

MEPPF ENGINEER
Schiller and Hersh Associates, Inc.
636 Skipack Pike, Suite 200
Blue Bell, PA 19422
(215) 886-8947

SITE / CIVIL
Pennoni Associates, Inc
158 W Gay Street, Suite 300
West Chester, PA 19380
(610) 429-8907

FOOD SERVICE
Corsi Associates
1001 Baltimore Pike, Suite 308
Springfield, PA 19064
610-541-822

NOT FOR
CONSTRUCTION



BASIN NO.	TEMPORARY RISER				BARREL					
	Z1 (FT)	Z2 (FT)	DIA TRd (IN)	CREST ELEV TRCE (FT)	MATL	DIA Bd (IN)	INLET ELEV BIE (FT)	MATL	LENGTH (FT)	OUTLET ELEV BOE (FT)
1	3	3	30	233.50	CMP	18	229.50	RCP	92	225.90

TOP ELEV (FT)	EMBANKMENT		KEY TRENCH DEPTH (FT)	KEY TRENCH WIDTH (FT)	CLEANOUT ELEV COE (FT)	BOTTOM ELEV BE (FT)	SKIMMER	
	TOP ELEV ETE (FT)	WIDTH (FT)					LENGTH SAI (FT)	MATL
238.30	10	2	4	230.50	229.50	4	7	PVC

NOTES:

SEDIMENT BASINS, INCLUDING ALL APPURTENANCE WORKS, SHALL BE CONSTRUCTED TO THE DETAIL AND DIMENSIONS SHOWN ON THE E&S PLAN DRAWINGS.

AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO A DEPTH OF TWO FEET PRIOR TO ANY PLACEMENT AND COMPACTION OF EARTHEN FILL. FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 6 TO 9 IN. THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2/3 THE LIFT THICKNESS. UPON COMPLETION, THE EMBANKMENT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE E&S PLAN DRAWINGS. TREES SHALL NOT BE PLANTED ON THE EMBANKMENT.

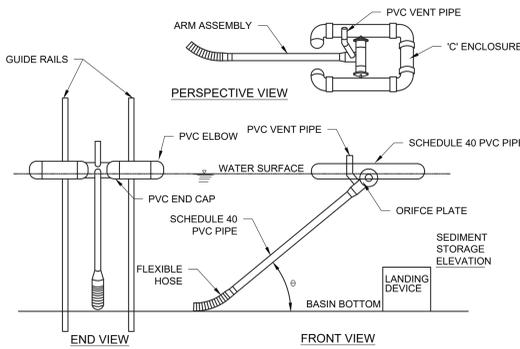
ACCESS SHALL BE PROVIDED FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES.

A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH BASIN. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE BASIN IN THE MANNER DESCRIBED IN THE E&S PLAN.

INSPECT ALL SEDIMENT BASINS ON AT LEAST A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. CHECK BASIN EMBANKMENTS, SPILLWAYS, AND OUTLETS FOR EROSION, PIPING AND SETTLEMENT. NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY. DISPLACED RIPRAP WITHIN THE OUTLET ENERGY DISSIPATER SHALL BE REPLACED IMMEDIATELY. ACCUMULATED SEDIMENT SHALL BE REMOVED AND UNDISTURBED AREAS SHALL BE STABILIZED INSIDE THE BASIN BEFORE CONVERSION TO A STORMWATER MANAGEMENT FACILITY. THE DEVICE SHOWN IN STANDARD CONSTRUCTION DETAIL #7-16 MAY BE USED TO DEWATER SATURATED SEDIMENT PRIOR TO ITS REMOVAL. ROCK FILTERS SHALL BE ADDED AS NECESSARY.

SEDIMENT BASIN WITH PERFORATED RISER

NTS STANDARD CONSTRUCTION DETAIL #7-6



BASIN NO.	WATER SURFACE ELEVATION (FT)	ARM LENGTH (FT)	ARM DIA. (IN)	ORIFICE DIA. (IN)	TOP OF LANDING DEVICE ELEVATION (FT)	FLEXIBLE HOSE LENGTH (IN)	FLEXIBLE HOSE ATTACHMENT ELEVATION (FT)
BASIN 1	234.50	7	4	3.3	230.50	24	229.50

NOTES:

ORIFICE DIAMETER MUST BE EQUAL TO OR LESS THAN ARM DIAMETER

A ROPE SHALL BE ATTACHED TO THE SKIMMER ARM TO FACILITATE ACCESS TO THE SKIMMER ONCE INSTALLED.

SKIMMER SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. ANY MALFUNCTIONING SKIMMER SHALL BE REPAIRED OR REPLACED WITHIN 24 HOURS OF INSPECTION.

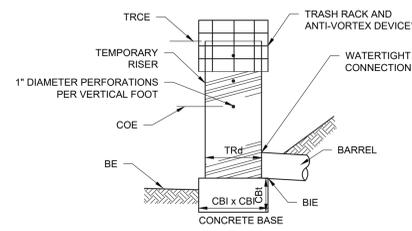
ICE OR SEDIMENT BUILDUP AROUND THE PRINCIPAL SPILLWAY SHALL BE REMOVED SO AS TO ALLOW THE SKIMMER TO RESPOND TO FLUCTUATING WATER ELEVATIONS.

SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN IT REACHES THE LEVEL MARKED ON THE SEDIMENT CLEAN-OUT STAKE OR THE TOP OF THE LANDING DEVICE.

A SEMI-CIRCULAR LANDING ZONE MAY BE SUBSTITUTED FOR THE GUIDE RAILS (STANDARD CONSTRUCTION DETAIL # 7-3).

SKIMMER

NTS STANDARD CONSTRUCTION DETAIL #7-1



* SEE STANDARD CONSTRUCTION DETAIL #7-5, TRASH RACK AND ANTI-VORTEX DEVICE

** LOWEST HOLE AT SEDIMENT CLEAN-OUT ELEVATION

TRAP NO.	TEMPORARY RISER				CONCRETE BASE			BARREL
	DIA TRd (IN)	CREST ELEV TRCE (FT)	MATL	CLEAN OUT ELEV. COE (FT)	LENGTH CBI (IN)	WIDTH CBI (IN)	THICK. CBI (IN)	
BASIN 1	30	233.50	CMP	230.50	36	36	6	229.50

NOTES:

A MINIMUM OF 2-#8 REBAR SHALL BE PLACED AT RIGHT ANGLES AND PROJECTING THROUGH SIDES OF RISER TO ANCHOR IT TO CONCRETE BASE. REBAR SHALL PROJECT A MINIMUM OF 1/4 RISER DIAMETER BEYOND OUTSIDE OF RISER.

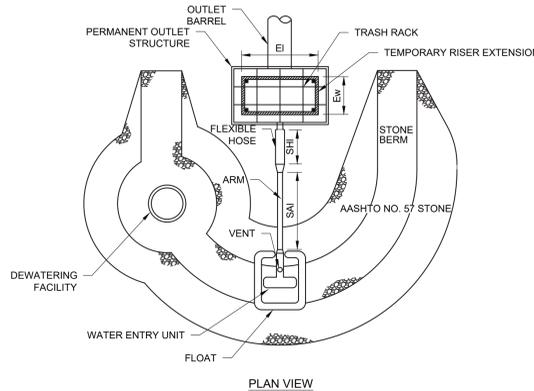
CONCRETE BASE SHALL BE POURED IN SUCH A MANNER SO AS TO INSURE THAT CONCRETE FILLS BOTTOM OF RISER TO INVERT OF THE OUTLET PIPE TO PREVENT RISER FROM BREAKING AWAY FROM THE BASE. MINIMUM BASE WIDTH EQUALS 2 TIMES RISER DIAMETER.

EMBEDDED SECTION OF ALUMINUM OR ALUMINIZED PIPE SHALL BE PAINTED WITH ZINC CHROMATE OR EQUIVALENT.

CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND RISER.

SEDIMENT BASIN TEMPORARY RISER

NTS STANDARD CONSTRUCTION DETAIL #8-3



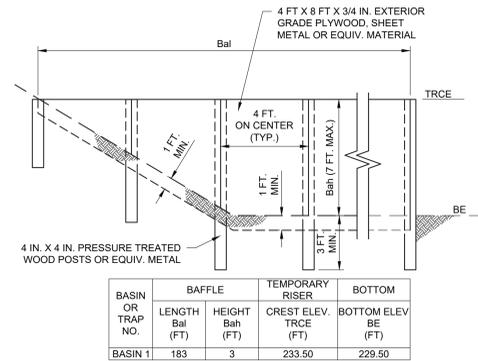
NOTES:

NO GUIDE RAILS SHALL BE REQUIRED FOR THIS INSTALLATION.

THIS DETAIL SHALL BE USED IN CONJUNCTION WITH STANDARD CONSTRUCTION DETAILS #7-2 AND #7-4.

SKIMMER WITH STONE LANDING BERM

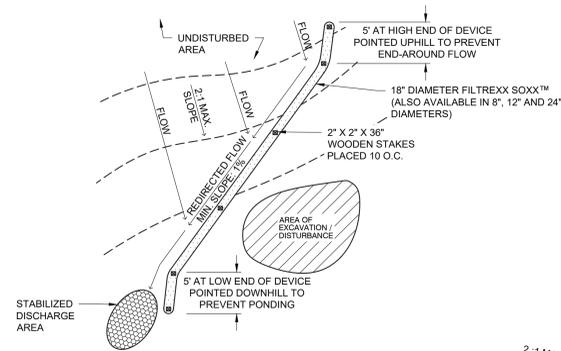
NTS STANDARD CONSTRUCTION DETAIL #7-3



BASIN OR TRAP NO.	BAFFLE LENGTH Bal (FT)	HEIGHT Bah (FT)	TEMPORARY RISER CREST ELEV. TRCE (FT)	BOTTOM ELEV BE (FT)
BASIN 1	183	3	233.50	229.50

BAFFLE

NTS STANDARD CONSTRUCTION DETAIL #7-14



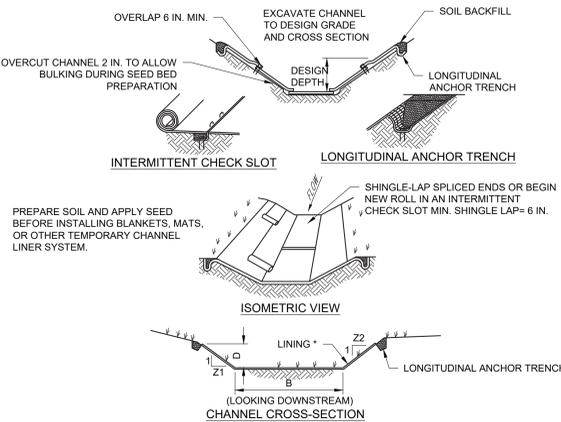
NOTES:

1. REMOVE SEDIMENT FROM THE UPSLOPE SIDE OF THE SOXX™ WHEN ACCUMULATION HAS REACHED 1/2 OF EFFECTIVE HEIGHT OF SOXX™
2. SLOPES GREATER THAN 5% MAY REQUIRE ADDITIONAL STABILIZATION PRACTICES
3. SOXX™ MAY BE SEEDED AT THE TIME OF INSTALLATION
4. FILTREXX FILTER SOXX NEEDS TO BE FILLED WITH FILTREXX CERTIFIED GROWING MEDIA

SOCK NO.	DIA. (INCH)	LOCATION	SLOPE PERCENT
DS-1	18	WEST OF ATHLETIC FIELDS	5.0

DIVERSION SOCK DETAIL

NOT TO SCALE



* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION

CHANNEL NO.	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING *
C-1	3	0.59	6.54	50	3	S1506N
C-2	3	0.67	7.02	3	50	S1506N

NOTES:

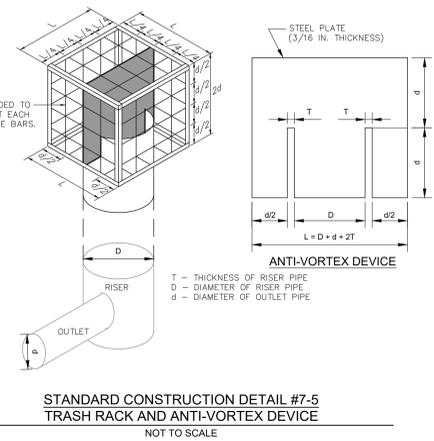
ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.

CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.

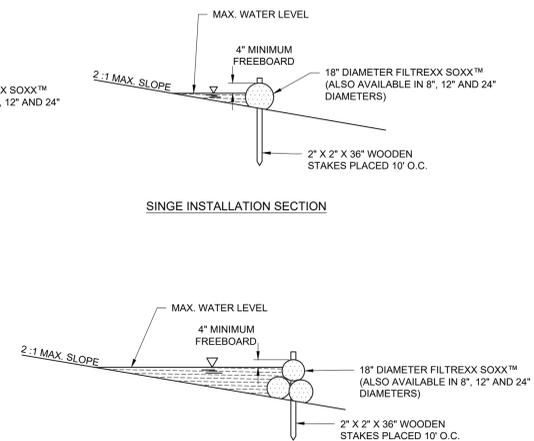
VEGETATED CHANNEL

NTS STANDARD CONSTRUCTION DETAIL #6-1

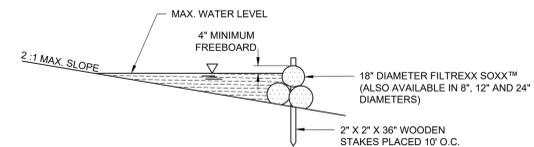


STANDARD CONSTRUCTION DETAIL #7-5
TRASH RACK AND ANTI-VORTEX DEVICE

NOT TO SCALE



SINGLE INSTALLATION SECTION



PYRAMID INSTALLATION SECTION

ROLLMAX™
ROLLED EROSION CONTROL

Specification Sheet
BioNet® S150BN™ Erosion Control Blanket

DESCRIPTION

The short term BioNet erosion control blanket shall be a machine-produced mat of 100% agricultural straw with a functional longevity of up to 12 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location and elevation). The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top and bottom sides with a 100% biodegradable woven natural fiber netting. The netting shall consist of machine directional strands formed from two interwoven yarns with cross directional strands interwoven through the twisted machine strands (commonly referred to as a Leno weave) to form an approximate 0.50 x 1.0 in. (1.27 x 2.54 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats.

The S150BN shall meet Type 2-D specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17

Index Property	Test Method	Typical
Thickness	ASTM D6525	0.23 in. (5.84 mm)
Resiliency	ECTC Guidelines	80.5%
Water Absorbency	ASTM D1917	428%
Mass/Unit Area	ASTM D2445	8.79 oz/sq yd (246 g/m ²)
Shrink	ECTC Guidelines	1%
Smolder Resistance	ECTC Guidelines	Yes
Stiffness	ASTM D1388	6.23 oz-in
Light Penetration	ASTM D6567	15.3%
Tensile Strength - MD	ASTM D6818	188.4 lbs/ft
Tensile Strength - TD	ASTM D6818	2.79 kN/m
Elongation - MD	ASTM D6818	11.2%
Tensile Strength - TD	ASTM D6818	152.2 lbs/ft
Elongation - TD	ASTM D6818	13.5%
Biomass Improvement	ASTM D3922	549%

Material	Content	Weight (lb)
Matrix	100% Straw Fiber	0.5 lb/4 sq yd (0.27 kg/m ²)
Netting	Top: Leno woven 100% biodegradable organic jute	9.35 lb/1000 sq ft (4.5 kg/100 m ²)
	Bottom: 100% biodegradable organic jute	17.76 lb/1000 sq ft (7.76 kg/100 m ²)
Thread	Biodegradable	

Design Permissible Shear Stress	Value
Unvegetated Shear Stress	1.85 psf (88 Pa)
Unvegetated Velocity	6.00 fps (1.83 m/s)

Slope Design Data: C Factors	Slope Gradient (S)
Slope Length (L)	≤ 315
Flow Depth	≤ 20 ft (6 m)
Area	0.00014
	0.01
	0.070
	0.02
	0.100

Roughness Coefficients - Unveg.	Manning's n
Flow Depth	≤ 0.50 ft (0.15 m)
Area	0.005
	0.055-0.021
	0.021

Standard Roll Sizes

Width	Length	Weight
6.0 ft (1.83 m)	83.0 ft (25.3 m)	16.0 lb (7.26 kg)
10.0 ft (3.05 m)	103.0 ft (31.4 m)	13.0 lb (5.90 kg)
12.0 ft (3.66 m)	66.28 lbs (29.8 kg)	193.5 lbs (87.8 kg)
18.0 ft (5.49 m)	88.0 lbs (39.9 kg)	282.0 lbs (128.0 kg)
24.0 ft (7.32 m)	88.0 lbs (39.9 kg)	182.2 lbs (82.7 kg)

Material Content

Material	Content	Weight (lb)
Matrix	100% Straw Fiber	0.5 lb/4 sq yd (0.27 kg/m ²)
Netting	Top: Leno woven 100% biodegradable organic jute	9.35 lb/1000 sq ft (4.5 kg/100 m ²)
	Bottom: 100% biodegradable organic jute	17.76 lb/1000 sq ft (7.76 kg/100 m ²)
Thread	Biodegradable	

Material Content

Material	Content	Weight (lb)
Matrix	100% Straw Fiber	0.5 lb/4 sq yd (0.27 kg/m ²)
Netting	Top: Leno woven 100% biodegradable organic jute	9.35 lb/1000 sq ft (4.5 kg/100 m ²)
	Bottom: 100% biodegradable organic jute	17.76 lb/1000 sq ft (7.76 kg/100 m ²)
Thread	Biodegradable	

Design Permissible Shear Stress

Design Permissible Shear Stress	Value
Unvegetated Shear Stress	1.85 psf (88 Pa)
Unvegetated Velocity	6.00 fps (1.83 m/s)

Slope Design Data: C Factors

Slope Gradient (S)
≤ 315
≤ 20 ft (6 m)
0.00014
0.01
0.070
0.02
0.100

Roughness Coefficients - Unveg.

Manning's n
≤ 0.50 ft (0.15 m)
0.005
0.055-0.021
0.021

Material Content

Material	Content	Weight (lb)
Matrix	100% Straw Fiber	0.5 lb/4 sq yd (0.27 kg/m ²)
Netting	Top: Leno woven 100% biodegradable organic jute	9.35 lb/1000 sq ft (4.5 kg/100 m ²)
	Bottom: 100% biodegradable organic jute	17.76 lb/1000 sq ft (7.76 kg/100 m ²)
Thread	Biodegradable	

Design Permissible Shear Stress

Design Permissible Shear Stress	Value
Unvegetated Shear Stress	1.85 psf (88 Pa)
Unvegetated Velocity	6.00 fps (1.83 m/s)

Slope Design Data: C Factors

Slope Gradient (S)
≤ 315
≤ 20 ft (6 m)
0.00014
0.01
0.070
0.02
0.100

Roughness Coefficients - Unveg.

Manning's n
≤ 0.50 ft (0.15 m)
0.005
0.055-0.021
0.021

Material Content

Material	Content	Weight (lb)
Matrix	100% Straw Fiber	0.5 lb/4 sq yd (0.27 kg/m ²)
Netting	Top: Leno woven 100% biodegradable organic jute	9.35 lb/1000 sq ft (4.5 kg/100 m ²)
	Bottom: 100% biodegradable organic jute	17.76 lb/1000 sq ft (7.76 kg/100 m ²)
Thread	Biodegradable	

Design Permissible Shear Stress

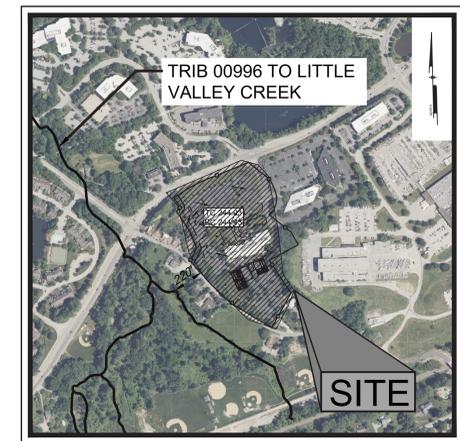
Design Permissible Shear Stress	Value
Unvegetated Shear Stress	1.85 psf (88 Pa)
Unvegetated Velocity	6.00 fps (1.83 m/s)

Slope Design Data: C Factors

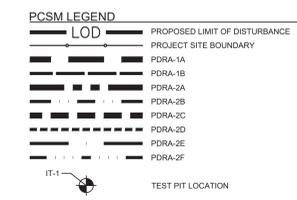
Slope Gradient (S)
≤ 315
≤ 20 ft (6 m)
0.00014
0.01
0.070
0.02
0.100

Roughness Coefficients - Unveg.

Manning's n
≤ 0.50 ft (0.15 m)
0.005
0.055-0.021</



LOCATION MAP
Scale: 1" = 500'



POST CONSTRUCTION STORMWATER MANAGEMENT PLAN NOTES:

- THE PROJECT'S RECEIVING WATERCOURSE IS TRIBUTARY 00996 TO LITTLE VALLEY CREEK, WHICH IS CLASSIFIED AS EXCEPTIONAL VALUE MIGRATORY FISHES (EVMF) BY TITLE 25, CHAPTER 93 OF THE PENNSYLVANIA CODE.
 - A NOTICE OF TERMINATION (NOT) WILL BE REQUIRED TO BE SUBMITTED FOLLOWING APPROVAL OF THE FINAL AS-BUILT PLANS. PRIOR TO ACCEPTING THE NOTICE OF TERMINATION, THE DEPARTMENT AND/OR CONSERVATION DISTRICT STAFF WILL PERFORM A FINAL INSPECTION TO ENSURE SITE STABILIZATION AND VERIFY ADEQUATE INSTALLATION AND FUNCTION OF STORMWATER BMP'S.
 - UPON PERMANENT STABILIZATION OF THE EARTH DISTURBANCE ACTIVITY UNDER §102.22(A)(2) (RELATING TO PERMANENT STABILIZATION), AND INSTALLATION OF BMP'S IN ACCORDANCE WITH AN APPROVED PLAN PREPARED AND IMPLEMENTED IN ACCORDANCE WITH §102.4 AND §102.8 (RELATING TO EROSION AND SEDIMENT CONTROL REQUIREMENTS, AND PCSM REQUIREMENTS), THE PERMITTEE OR CO-PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION TO THE DEPARTMENT OR CONSERVATION DISTRICT.
- THE NOTICE OF TERMINATION MUST INCLUDE:
- (1) THE FACILITY NAME, ADDRESS AND LOCATION.
 - (2) THE OPERATOR NAME AND ADDRESS.
 - (3) THE PERMIT NUMBER.
 - (4) THE REASON FOR PERMIT TERMINATION.
 - (5) IDENTIFICATION OF THE PERSONS WHO HAVE AGREED TO AND WILL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP'S IN ACCORDANCE WITH §102.8(M) AND PROOF OF COMPLIANCE WITH §102.8(M)(2).
- PRIOR TO ACCEPTING THE NOT, THE DEPARTMENT AND/OR CONSERVATION DISTRICT STAFF WILL PERFORM A FINAL INSPECTION AND APPROVE OR DENY THE NOTICE OF TERMINATION.
- THE PERMITTEE SHALL INCLUDE WITH A NOTICE OF TERMINATION "RECORD DRAWINGS" WITH A FINAL CERTIFICATION STATEMENT FROM A LICENSED PROFESSIONAL, WHICH READS AS FOLLOWS:
"I, OWNER, DO HEREBY CERTIFY PURSUANT TO THE PENALTIES OF 18 PA. C. S. A. §4904 TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THE ACCOMPANYING RECORD DRAWINGS ACCURATELY REFLECT THE AS-BUILT CONDITIONS, ARE TRUE AND CORRECT, AND ARE IN CONFORMANCE WITH CHAPTER 102 OF THE RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE PROJECT SITE WAS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PCSM PLAN. ALL APPROVED PLAN CHANGES AND ACCEPTED CONSTRUCTION PRACTICES."
(1) THE PERMITTEE SHALL RETAIN A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PCSM PLAN.
(2) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP'S.
 - ALL STORMWATER CONVEYANCE AND MANAGEMENT FACILITIES SHOWN ON THIS PLAN ARE PERMANENT AND ARE NOT TO BE REMOVED OR ALTERED WITHOUT THE APPROVAL OF THE TOWNSHIP. THE INDIVIDUAL LOT OWNER, HIS/HERS, HEIRS, ASSIGNS OR SUCCESSORS SHALL BE RESPONSIBLE FOR THE PERPETUAL MAINTENANCE OF THE SAID FACILITIES.
 - THE OWNER HEREBY GRANTS PERMISSION TO THE TOWNSHIP, ITS AUTHORIZED AGENTS AND EMPLOYEES, TO ENTER UPON THE PROPERTY AT REASONABLE TIMES AND UPON PRESENTATION OF PROPER IDENTIFICATION, TO INSPECT THE BMP'S WHENEVER IT DEEMS NECESSARY. THE TOWNSHIP SHALL NOTIFY THE OWNER AT LEAST 24 HOURS PRIOR TO ENTERING THE PROPERTY.

SOIL TABLE

SYMBOL	NAME	HYDROLOGIC GROUP	SLOPES	HYDRIC	DEPTH TO		LIMITATIONS	RESOLUTION NOTES
					WATER TABLE (IN)	BEDROCK (IN)		
CIB	CONESTOGA SILT LOAM	B	3-8%	NO	>80	60-99	MODERATE SOMEWHAT LIMITED	#2 - SEE RESOLUTION NOTES
CIC	CONESTOGA SILT LOAM	B	8-15%	NO	>80	60-99	MODERATE VERY LIMITED	-
HC	HOLLINGER SILT LOAM	B	8-15%	NO	>80	60-99	MODERATE VERY LIMITED	-
U#	URBAN LAND	-	0-8%	NO	-	-	NONE	#1 SEE RESOLUTION NOTES

RESOLUTION NOTES:

- DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE: SHOULD A HIGH GROUND WATER TABLE BE ENCOUNTERED DURING CONSTRUCTION, WATER WILL BE DRAINED AWAY FROM DISTURBED AREAS TO A WELL VEGETATED AREA OR A PLACED COMPOST FILTER SOCK PRIOR TO BEING DISCHARGED OFF SITE. SATURATED SOILS REQUIRE COMPACTION WILL BE DRIED PRIOR TO BEING USED ON SITE.
- PIPING: AREAS OF EMBANKMENTS WITH PIPES PASSING THROUGH THEM SHALL HAVE ANTI-SEEP COLLARS INSTALLED PER THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S (PA DEP) EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM.
- CUT BANKS CAVES - ALMOST ALL PENNSYLVANIA SOILS ARE SUSCEPTIBLE TO CAVING OF CUT BANKS. CUT SLOPES WILL BE STABILIZED AS SOON AS POSSIBLE WITH SEED AND MULCH OR EROSION CONTROL BLANKETS TO PREVENT SLIDING. SLOPES ARE DESIGNED TO NOT EXCEED 2H:1V.
- CORROSIVE TO CONCRETE/STEEL PIPE: PIPES TO BE USED ON SITE SHALL BE HDPE OR COATED STEEL.
- POTENTIAL SINKHOLE: SHOULD A SINKHOLE BE ENCOUNTERED DURING CONSTRUCTION, REPAIR SHOULD BE DONE UNDER THE DIRECT OBSERVATION AND SUPERVISION OF A PROFESSIONAL GEOLOGIST OR LICENSED GEOTECHNICAL ENGINEER.
- LOW STRENGTH - MOST OF PENNSYLVANIA SOILS (73%) HAVE RELATIVELY LOW STRENGTH. PRECAUTIONS WILL BE TAKEN TO PREVENT SLOPE FAILURES DUE TO IMPROPER CONSTRUCTION PRACTICES. SOILS WILL BE EVALUATED DURING CONSTRUCTION TO DETERMINE WHETHER ADDITIONAL MEASURES WILL NEED TO BE TAKEN.

GEOLOGY NOTE:

STATE: PENNSYLVANIA
NAME: CONESTOGA FORMATION
GEOLOGIC AGE: ORDOVICIAN AND CAMBRIAN
ORIGINAL MAP LABEL: C05
PRIMARY ROCK TYPE: LIMESTONE
SECONDARY ROCK TYPE: SHALE, CONGLOMERATE LIMESTONE, PHYLLITE

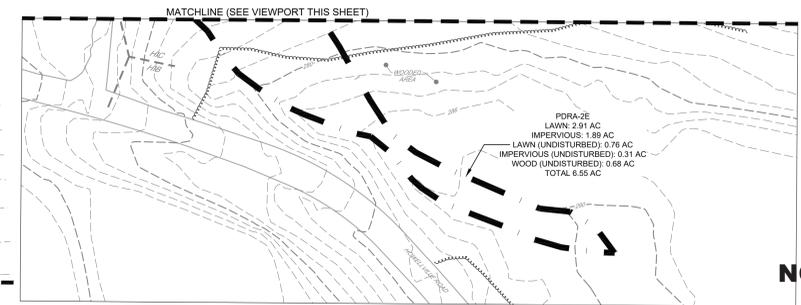
INFILTRATION TEST SUMMARY

INFILTRATION TEST NUMBER	EX. FINISH GRADE ELEVATION	INFILTRATION TEST		LIMITING ZONE CHECK		INFILTRATION RATE (IN/HR)
		ELEVATION	DEPTH (FT)	DEPTH (FT)	TYPE	
IT-1	249.00	245.50	3.5	NE		<1
IT-2	245.50	240.50	5.0	NE		<1
IT-3	247.00	240.50	6.5	7	DECOMPOSED ROCK	<1
IT-4	245.00	237.50	7.5	NE		<1
IT-5	250.00	237.50	12.5	NE		<1
IT-6	247.00	237.50	9.5	NE		<1
IT-7	244.00	230.00	14.0	NE		<1
IT-8	242.00	230.00	12.0	NE		<1
IT-9	239.00	230.00	9.0	NE		<1
IT-10	248.00	240.00	8.0	NE		<1

CERTIFICATE OF DESIGN

I, MICHAEL KISSINGER, ON THIS DATE 20 HEREBY CERTIFY THAT WITHIN REFERENCED DRAINAGE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE TREDYFFRIN TOWNSHIP STORMWATER MANAGEMENT ORDINANCE

PROFESSIONAL ENGINEER PA LICENSE NO.



NOT FOR CONSTRUCTION

NOT FOR CONSTRUCTION

ISSUE HISTORY

A	DATE	ISSUED FOR
1	2025-03-28	BID ISSUE

SHEET TITLE
SITE CIVIL
POST
CONSTRUCTION
STORMWATER
MANAGEMENT PLAN
DRAWING NUMBER

CS9001