

STANDARD EROSION AND SEDIMENT CONTROL PLAN NOTES

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INWRITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE WASHINGTON COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-441-1178 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE WASHINGTON COUNTY CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE MANNER NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE WASHINGTON COUNTY CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL, FORM P-1001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM THE PROJECT SITE ONTO PUBLIC ROADS.
15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RETENING MUST BE PERFORMED IMMEDIATELY IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
16. A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTIONS.
17. 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 SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
18. ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARPED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTCROPS SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES. REFER TO GEOTECHNICAL REPORT AND CROSS SECTIONS.
21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 2 INCHES IN THICKNESS.
22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
26. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDING AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
27. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
28. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL, 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
29. E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE WASHINGTON COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.
31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
32. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE WASHINGTON COUNTY CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
33. FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LOADED 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 IMPOSED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA WATER CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MIDDLE-AMOUNT CRIMINAL PENALTIES FOR EACH VIOLATION.
34. THE CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
35. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
36. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM 10" LAYERED LIFTS AT 90% DENSITY.
37. SPREAD TOPSOIL, SEED AN MULCH ALL DISTURBED AREAS, USING SPECIFIED SEEDING REQUIREMENTS. ALL DISTURBED AREAS MUST BE TEMPORARILY STABILIZED IN REMAINING IDLE FOR MORE THAN 4 DAYS. IN THE ABSENCE OF A SOIL TEST, LIME SHOULD BE ADDED AT A RATE OF 275 LBS/1,000 S.F. LIMEWISE. THE FERTILIZER RATES SHOULD BE INCREASED TO 1250 LBS/AC. OF 5-16-16 AND 3000 LBS/AC. OF 5-10-10.

MAINTENANCE SCHEDULE

| CONTROL MEASURE             | INSPECT                                  | PROBLEMS TO LOOK FOR   | POSSIBLE REMEDIES   |
|-----------------------------|--|--|---|
| VEGETATION                  | WEEKLY AND AFTER EVERY RUNOFF EVENT      | SEDIMENT AT TOE OF SLOPE<br><br>RILLS AND GULLIES FORMING<br><br>BARE SOIL PATCHES   | CHECK FOR TOP-OF-SLOPE DIVERSION AND INSTALL IF NEEDED.<br><br>FILL RILLS AND REGRADE GULLED SLOPES.<br><br>RESEED, FERTILIZE, AND MULCH BARE AREAS.  |
| ROCK CONSTRUCTION ENTRANCES | WEEKLY AND AFTER EVERY RUNOFF EVENT      | SINK HOLES OR RUTS<br><br>SEDIMENT ON PUBLIC ROADWAY   | ADD ROCK TO BRING TO SPECIFIED DIMENSIONS.<br><br>SWEEP MATERIAL BACK TO PROJECT SITE. DO NOT WASH ROADWAY WITH WATER.  |
| FILTER FABRIC FENCE         | WEEKLY AND AFTER EVERY RUNOFF EVENT      | UNDERCUTTING OF FENCE<br><br>FENCE COLLAPSING<br><br>TORN FABRIC<br><br>RUNOFF ESCAPING AROUND BARRIER<br><br>SEDIMENT LEVEL NEAR TOP OF FENCE<br><br>THE ABOVE SYMPTOMS FOR SUPER SILT FENCE<br><br>CHAIN LINK FENCE SAGS | ENTRENCH WIRE MESH AND FABRIC TO PROPER DEPTH, BACKFILL AND COMPACT AS PER DETAIL.<br><br>REPLACE FAILED SEGMENT WITH ROCK FILTER OUTLET<br><br>CHECK FENCE POST SIZE AND SPACING, GAUGE OF WIRE MESH, AND FABRIC STRENGTH. CHECK DRAINAGE AREA, SLOPE LENGTH, AND GRADIENT BEHIND BARRIER. CORRECT ANY SUBSTANDARD CONDITION.<br><br>REPLACE WITH CONTINUOUS PIECE OF FABRIC FROM POST TO POST. SECURELY ANCHOR WITH PROPER STAPLES.<br><br>EXTEND FENCE.<br><br>REMOVE SEDIMENT WHEN LEVEL REACHES HALF OF FENCE HEIGHT.<br><br>REPAIR AS PER DETAIL FOR SUPER SILT FENCE BLOWOUT REPAIR. SEE DETAIL.<br><br>INSTALL ADDITIONAL POSTS AND SECURE FABRIC |
| INLET PROTECTION            | WEEKLY AND AFTER EVERY RUNOFF EVENT      | SEDIMENT ACCUMULATION<br><br>RUNOFF ESCAPING AROUND BARRIER  | REMOVE SEDIMENT WHEN BAG IS 1/2 FULL AND DISPOSE ON SITE. OR INSTALL NEW SILT BAG REBUILD BARRIER   |
| ROCK FILTER OUTLET          | ONCE A WEEK AND AFTER EVERY RUNOFF EVENT | SEDIMENT ACCUMULATION SHOWN AT LEVEL THAT IS 1/3 THE HEIGHT OF THE OUTLET<br><br>RUNOFF ESCAPING AROUND BARRIER  | REMOVE SEDIMENT AND DISPOSE ON SITE.<br><br>REBUILD OUTLET  |
| PUMPED WATER FILTER BAG     | WHEN IN USE                              | SEDIMENT ACCUMULATION IN BAG WHEN IT REACHES HALF FULL<br><br>LEAKY DISCHARGE HOSE   | REPLACE FILTER BAG AND DISPOSE AT REPROVED LOCATION.<br><br>SECURE CLAMP CONNECTING DISCHARGE HOSE AND FILTER BAG   |

TEMPORARY SEEDING SPECIFICATIONS:

|                              |  |                      |                |                     |
|------------------------------|--|----------------------|----------------|---------------------|
| <b>LIMESTONE</b>             | RAW, GROUND, AGRICULTURAL LIMESTONE CONTAINING MORE THAN 90 PERCENT CALCIUM CARBONATES (ADJUST PH LEVELS TO 6.5 TO 7.0). APPLY AT A RATE OF 2000 LBS/AC, UNLESS OTHERWISE INDICATED BY SOIL TESTS.   |                      |                |                     |
| <b>COMMERCIAL FERTILIZER</b> | IN ABSENCE OF A SOIL TEST, USE 100 LBS/AC OF 10-20-20 (23 LBS/1000 S.F.) MIXED INTO SEEDBED PRIOR TO SEEDING, OR IN A TANK WITH SEED WHEN HYDROSEEDING.  |                      |                |                     |
| <b>MULCH</b>                 | CLEAN OAT OR WHEAT STRAW SHALL BE FREE FROM MATURE SEED-BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS AS DEFINED BY THE PENNSYLVANIA SEED ACT. TWT. APPLY AT A RATE OF 3 TONS/AC (135 LBS/1000 S.F.). PRECAUTION SHALL BE TAKEN TO STABILIZE THE MULCH UNTIL THE VEGETATIVE COVER IS ESTABLISHED. |                      |                |                     |
| <b>SEED MIXTURE</b>          | SEED MIXTURE SHALL BEAR A GUARANTEED STATEMENT OF ANALYSIS AND SHALL BE COMPOSED OF THE FOLLOWING VARIETIES AND MIXED IN THE PROPORTIONS SPECIFIED:  |                      |                |                     |
|                              | TEMPORARY SEED MIXTURE   | PROPORTION BY WEIGHT | MINIMUM PURITY | MINIMUM GERMINATION |
|                              | RYEGRASS   | 100%                 | 98%            | 90%                 |
|                              | VAR. KENTUCKY  |                      |                |                     |
| <b>SEEDING RATE</b>          | THREE (3) PERCENT REDTOP MAY BE ADDED TO THE LAWN MIXTURE ON SLOPE AREAS OR FOR LAKE SPRING OR LAKE FILL SEEDING.  |                      |                |                     |
|                              | TEMPORARY SEEDING SHALL BE APPLIED AT THE RATE OF TEN (10) POUNDS PER ONE THOUSAND (1,000) SQUARE YARDS.   |                      |                |                     |
| <b>NOTES:</b>                | ALL AREAS TO BE SEEDING SHALL BE LOOSENOED TO A DEPTH OF AT LEAST TWO INCHES BY MECHANICAL MEANS OR AS APPROVED BY THE LANDSCAPE ARCHITECT.  |                      |                |                     |
|                              | MULCH SEEDED AREAS IMMEDIATELY AFTER SEEDING.  |                      |                |                     |
|                              | SEED ALL DISTURBED AREAS WITH THE TEMPORARY SEED MIXTURE EXCEPT THOSE AREAS SHOWN TO BE SEEDING WITH STEEP SLOPE MIXTURE, UNLESS OTHERWISE NOTED ON THE DRAWINGS.  |                      |                |                     |

PERMANENT SEEDING SPECIFICATIONS:

|                               |   |                      |                |                     |
|-------------------------------|---|----------------------|----------------|---------------------|
| <b>LIMESTONE</b>              | RAW, GROUND, AGRICULTURAL LIMESTONE CONTAINING MORE THAN 90 PERCENT CALCIUM CARBONATES (ADJUST PH LEVELS TO 6.5 TO 7.0). APPLY AT A RATE OF 2000 LBS/AC, UNLESS OTHERWISE INDICATED BY SOIL TESTS.  |                      |                |                     |
| <b>COMMERCIAL FERTILIZER</b>  | IN ABSENCE OF A SOIL TEST, USE 100 LBS/AC OF 10-20-20 (23 LBS/1000 S.F.) MIXED INTO SEEDBED PRIOR TO SEEDING, OR IN A TANK WITH SEED WHEN HYDROSEEDING.   |                      |                |                     |
| <b>INOCULANT</b>              | INOCULANT FOR TREATING LEGUMINOUS SEEDS SHALL BE A STANDARD COMMERCIAL PRODUCT CONSISTING OF A SUITABLE CARRIER CONTAINING A CANTAINMENT OF NITROGEN FIXING BACTERIA SPECIFIC FOR SEEDS TO BE INOCULATED. INOCULANT SHALL NOT BE USED LATER THAN DATE INDICATED ON THE CONTAINER.   |                      |                |                     |
| <b>MULCH</b>                  | CLEAN OAT OR WHEAT STRAW SHALL BE FREE FROM MATURE SEED-BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS AS DEFINED BY THE PENNSYLVANIA SEED ACT. TWT. APPLY AT A RATE OF 3 TONS/AC (135 LBS/1000 S.F.). PRECAUTION SHALL BE TAKEN TO STABILIZE THE MULCH UNTIL THE VEGETATIVE COVER IS ESTABLISHED.  |                      |                |                     |
| <b>SEED MIXTURE</b>           | SEED MIXTURE SHALL BEAR A GUARANTEED STATEMENT OF ANALYSIS AND SHALL BE COMPOSED OF THE FOLLOWING VARIETIES AND MIXED IN THE PROPORTIONS SPECIFIED:   |                      |                |                     |
|                               | PERMANENT SEEDING MIXTURE (PERENNIAL FORMULA 3)   | PROPORTION BY WEIGHT | MINIMUM PURITY | MINIMUM GERMINATION |
|                               | PERENNIAL RYEGRASS MIXTURE (SODIUM PERENNIAL) - A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL RYEGRASS COMPONENT.  | 30%                  | 98%            | 90%                 |
|                               | CREEPING RED FESCUE OR CHEWINGS FESCUE  | 20%                  | 98%            | 85%                 |
|                               | KENTUCKY BLUEGRASS MIXTURE (POA PRATERENS) - A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL BLUEGRASS COMPONENT.  | 50%                  | 98%            | 80%                 |
| <b>SEEDING RATE</b>           | PERMANENT SEEDING SHALL BE APPLIED AT A RATE OF TWENTY ONE (21) POUNDS PER ONE THOUSAND (1,000) SQUARE YARDS.   |                      |                |                     |
| <b>PREPARATION OF SEEDING</b> | GRADE AS NECESSARY TO BRING SUBGRADE TO A TRUE, SMOOTH SLOPE PARALLEL TO AND SIX INCHES BELOW FINISHED GRADE. PLACE TOPSOIL OVER SPECIFIED AREAS TO A DEPTH SUFFICIENTLY GREATER THAN SIX (6) OR EIGHT (8) INCHES SO THAT AFTER SETTLEMENT AND ROLLING, THE COMPLETE WORK WILL CONFORM TO LINES, GRADES AND ELEVATIONS SHOWN.   |                      |                |                     |
|                               | FERTILIZER AND AGRICULTURAL LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE SOIL BY ROTOTILLING OR OTHER METHOD TO A MINIMUM DEPTH OF FOUR (4) INCHES. THE ENTIRE SURFACE SHALL THEN BE REGRADED AND ROLLED. AREAS TO BE SEEDING SHALL THEN BE LOOSENOED TO A DEPTH OF TWO (2) INCHES. SEEDING SHALL BE DONE IN TWO SEPARATE OPERATIONS: THE SECOND SEEDING SHALL BE DONE IMMEDIATELY AFTER THE FIRST AND AT RIGHT ANGLES TO THE FIRST SEEDING AND LIGHTLY RAKED INTO THE SOIL. MULCH SEEDED AREAS IMMEDIATELY AFTER SEEDING. |                      |                |                     |

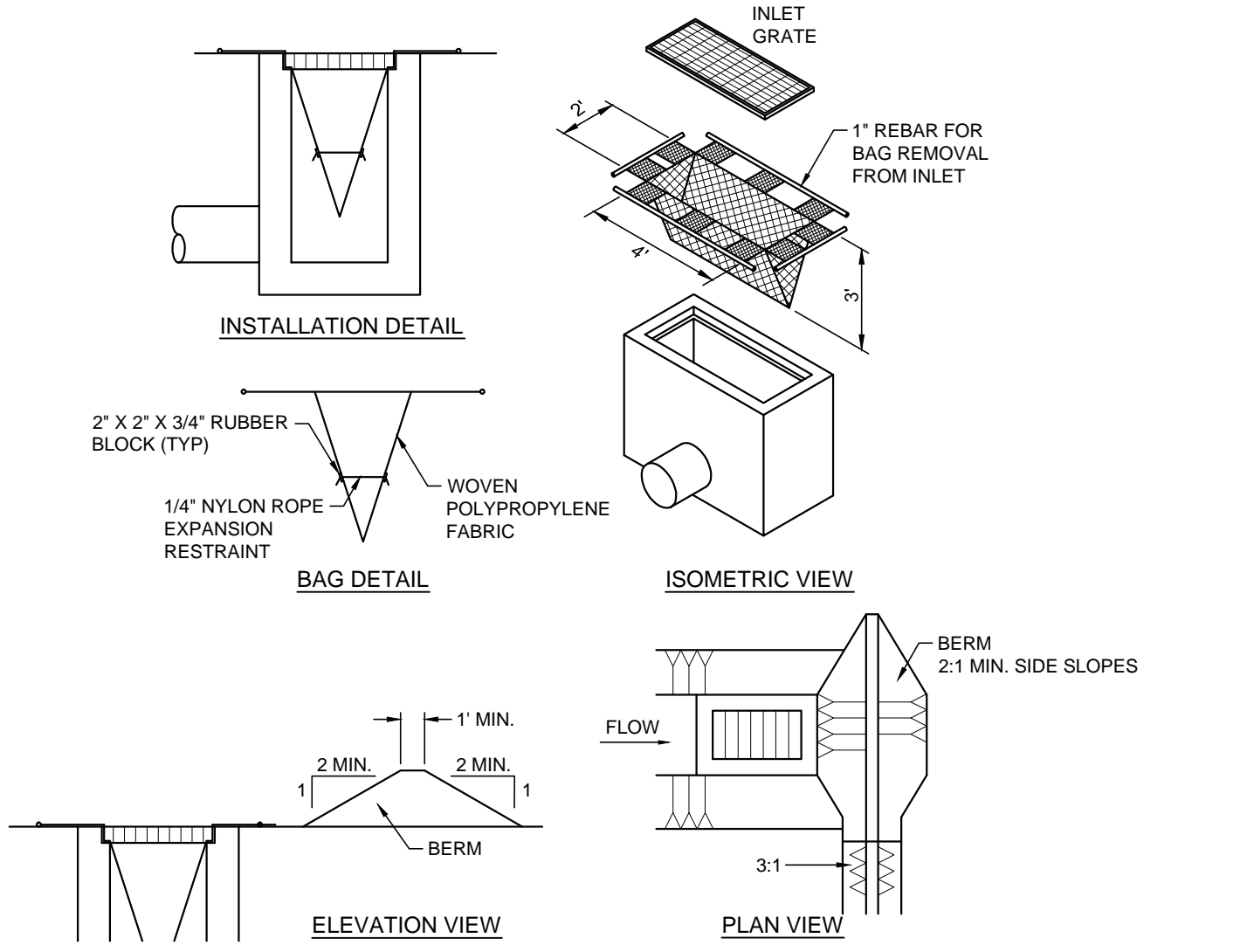
CONSTRUCTION SEQUENCE

- STAKE OUT LIMIT OF DISTURBANCE.
- INSTALL INLET PROTECTION BAGS IN EXISTING INLETS AS SHOWN ON THE PLAN IN ACCORDANCE WITH THE CONSTRUCTION DETAIL.
- CLEAR AND GRUB SITE WITHIN LIMITS OF DISTURBANCE.
- STRIP TOPSOIL AND STOCKPILE AT THE LOCATION SHOWN ON THE PLAN. IMMEDIATELY INSTALL FILTER FABRIC FENCE BELOW TOPSOIL STOCKPILE. THE TOPSOIL STOCKPILE MUST BE SEEDING IMMEDIATELY IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS.
- BEGIN GRADING OPERATIONS. SEEDING AND MULCHING AS SITE IS BROUGHT TO FINAL GRADE.
- INSTALL CONCRETE WASHOUT AREA AS SHOWN ON THE PLAN, IN ACCORDANCE WITH THE CONSTRUCTION DETAIL.
- BEGIN CONSTRUCTION OF PROPOSED STORM SEWERS. REFER TO THE UTILITY LINE INSTALLATION REQUIREMENTS BELOW PREPARE AREAS FOR PAVING AND INSTALL IN ACCORDANCE WITH THE CONSTRUCTION DETAILS.
- SPREAD TOPSOIL, SEED AND MULCH ALL DISTURBED AREAS, USING THE SPECIFIED SEEDING REQUIREMENTS. ALL DISTURBED AREAS MUST BE TEMPORARILY STABILIZED IF REMAINING IDLE FOR MORE THAN 4 DAYS. IN THE ABSENCE OF A SOIL TEST, LIME SHOULD BE ADDED AT A RATE OF 275 LBS/1,000 S.F. LIMEWISE. THE FERTILIZER RATES SHOULD BE INCREASED TO 1250 LBS/AC. OF 5-16-16 AND 2000 LBS/AC. OF 5-10-10.
- RESEED ALL DISTURBED AREAS IF VEGETATION IS NOT ESTABLISHED AFTER 30 DAYS.
- REMOVE ALL INLET PROTECTION FOLLOWING COMPLETION OF THE ABOVE STEPS AND AFTER THE SITE HAS ACHIEVED A UNIFORM 70% PERENNIAL VEGETATIVE COVER ON IMPROVED AREAS.

UTILITY LINE INSTALLATION REQUIREMENTS

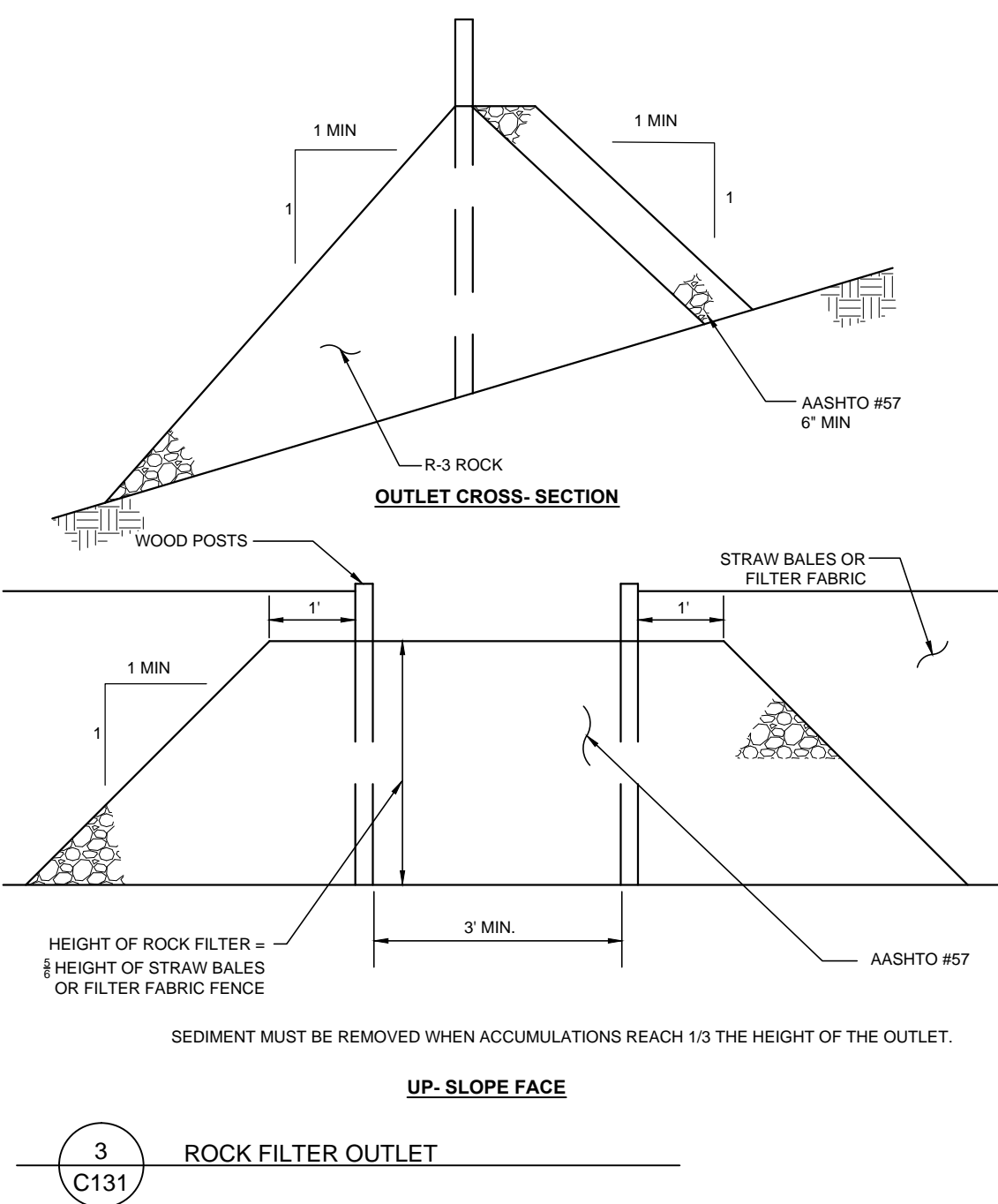
- ADVANCED CLEARING AND GRUBBING OPERATIONS FOR STRIP UTILITY LINE INSTALLATIONS SHALL BE LIMITED TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY.
- WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PLUG INSTALLATION AND BACKFILLING WILL BE SELF CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS.
- DAILY TRENCH EXCAVATION SHALL BE LIMITED TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY.
- WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING INTO A SILT BAG, PRIOR TO PIPE PLACEMENT OR BACKFILLING OPERATIONS.
- ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA SHALL BE GRADED TO FINAL CONTOURS AND APPROPRIATE TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL MEASURES/FACILITIES WILL BE INSTALLED. SEEDING AND MULCHING OF ALL DISTURBED AREAS WILL BE DONE AT THE END OF EACH WEEK.
- IN CERTAIN CASES TRENCHES CANNOT BE BACKFILLED UNTIL THE PIPE IS HYDROSTATICALLY TESTED, OR ANCHORS AND OTHER PERMANENT FEATURES ARE INSTALLED. IN THESE CASES, REQUIREMENT 6 IS MODIFIED AS FOLLOWS:
- DAILY BACKFILLING OF THE TRENCH MAY BE DELAYED FOR SIX DAYS. ALL PRESSURE TESTING AND THE COMPLETE BACKFILLING OF THE OPEN TRENCH MUST BE COMPLETED BY THE SEVENTH WORKING DAY. IF DAILY BACKFILLING IS DELAYED, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS, APPROPRIATE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES/FACILITIES WILL BE INSTALLED, AND THE AREAS SEEDING AND MULCHED WITHIN THE NEXT TWO CALENDAR DAYS.
- STREAMS, SWALES, DITCHES, CHANNELS, AND WATERS MUST BE FLUMED PAST THE OPEN TRENCH AT THE TIME OF THE CROSSING.
- WORK THROUGH BMPs SHOULD BE DONE DURING A DRY PERIOD TO PROTECT DOWN STREAM AREAS.

| SITE SOIL TYPES:   |                            |        |             |  |
|--|----------------------------|--------|-------------|--|
| SYMBOL   | DESCRIPTION                | SLOPE  | LIMITATIONS | REMEDIAL ACTIONS   |
| U6   | URBAN LAND VENANGO COMPLEX | 0 - 5% | NA          | SOILS SUSCEPTIBLE TO HIGH WATER TABLES AND/OR PIPING AND SEEPING:<br>* PROVIDE PUMPED WATER SEDIMENT REMOVAL FACILITIES<br>* USE CLAY EMBANKMENT CORES<br>* UTILIZE ANTI-SEEP COLLARS OR GRAVEL PACKS.<br><br>SOILS SUSCEPTIBLE TO MODERATE OR HIGH EROSION POTENTIAL:<br>* LIMIT TIME OF EXPOSURE.<br>* USE EROSION CONTROL BLANKETS.<br>* SELECTION OF SEED MIXTURES WITH RAPIDLY GERMINATING SPECIES.<br>* SODDING<br>* USE OF SPECIAL STABILIZATION PRODUCTS (E.G. CELLULAR GRIDS, INTERLOCKING CONCRETE BLOCKS...)<br><br>SOILS SUSCEPTIBLE TO SLIPS & LANDSLIDES:<br>* PREVENT SATURATION OF SLOPES.<br>* PROVIDE ANCHORING OR RETAINING SYSTEMS.<br>* PROVIDE BENCHING TO CATCH FALLING DEBRIS.<br>* SEE GEOTECHNICAL NOTE BELOW. |
| NOTE:<br>A GEOTECHNICAL ENGINEER WILL REVIEW THE SOIL CAPABILITY OF THE SITE AND MAKE RECOMMENDATIONS TO THE OWNER. SOILS HAVING UNSTABLE COMPOSITION, SLIP AND LANDSLIDE POTENTIAL ARE NOT TO BE PLACED AS FILL MATERIAL AT AREAS HAVING 2:1 SLOPES OR NEAR PROXIMITY TO SUCH SLOPES. LOADING PLANES OF SUCH PLACED FILLS SHALL BEAR ON SUITABLE SOILS KEPT INTO VIRGIN SOILS. REFER TO CUTFILL DETAILS ON PLANS. ALL CUT SITUATIONS THAT EXPOSE SUCH SOILS TO UNSUPPORTED BEARING BASE REQUIRES THOSE SOILS TO BE EXCAVATED AND REPLACED WITH SUITABLE SOILS THAT DO NOT HAVE THE MENTIONED CHARACTERISTICS. |                            |        |             |  |



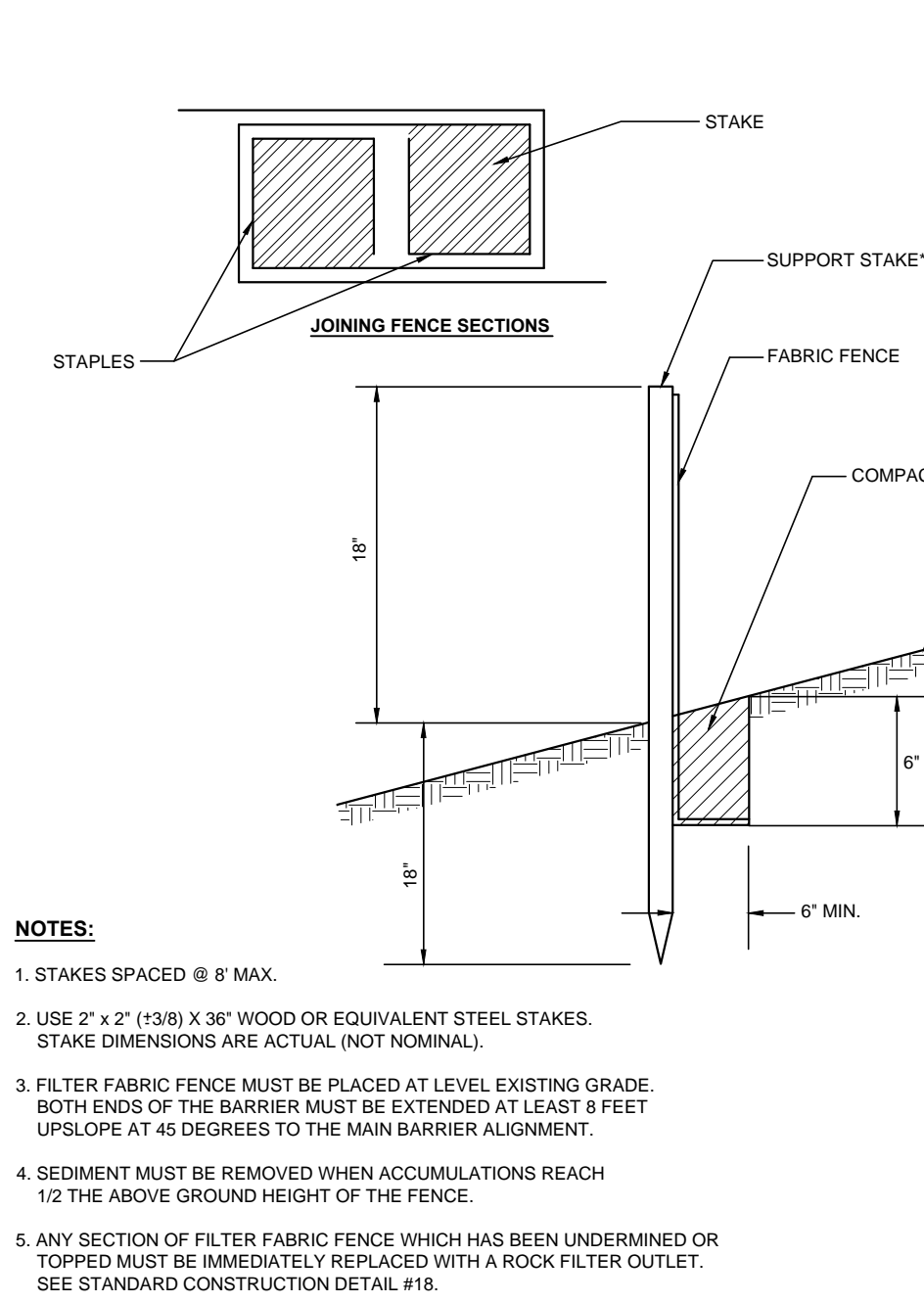
NOTES:

- MAXIMUM DRAINAGE AREA = 1/2 ACRE.
- FABRIC FOR THE BAGS SHOULD HAVE LOW FLOW PERMEABILITY (450 GAL/MIN/SF).
- INLET PROTECTION IS NOT REQUIRED FOR INLETS TRIBUTARY TO A SEDIMENT BASIN OR TRAP.
- BERMS ARE REQUIRED FOR ALL INSTALLATIONS. EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROCK ROADBASE IS INSTALLED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED.
- BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE IS FINAL.



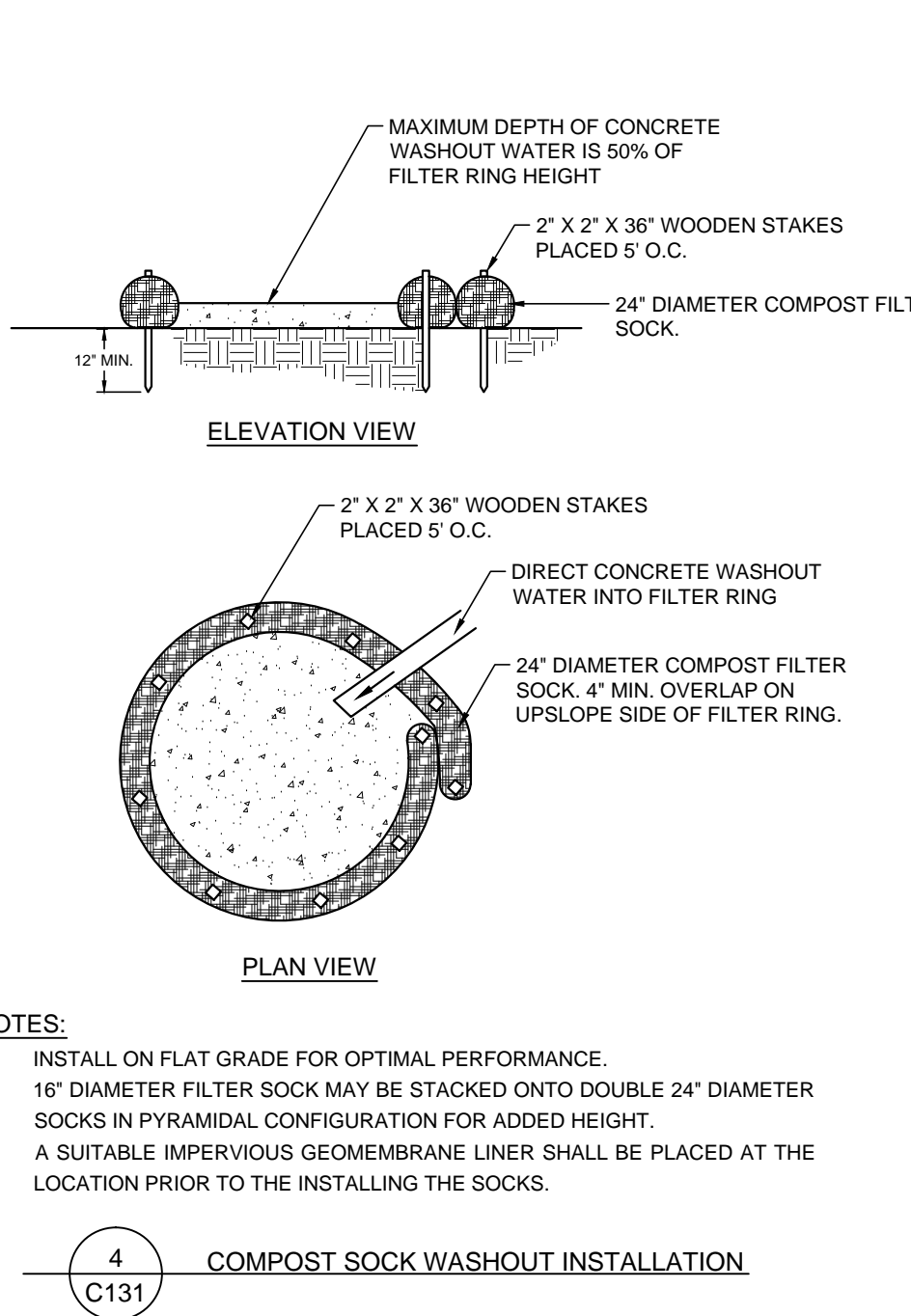
NOTES:

- INSTALL ON FLAT GRADE FOR OPTIMAL PERFORMANCE.
- 16" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
- A SUITABLE IMPERVIOUS GEOMEMBRANE LINER SHALL BE PLACED AT THE LOCATION PRIOR TO THE INSTALLING THE SOCKS.



NOTES:

- STAKES SPACED 8' MAX.
- USE 2' X 2' X 36" WOOD OR EQUIVALENT STEEL STAKES. STAKE DIMENSIONS ARE ACTUAL (NOT NOMINAL).
- FILTER FABRIC FENCE MUST BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE BARRIER MUST BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MIN BARRIER ALIGNMENT.
- SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.
- ANY SECTION OF FILTER FABRIC FENCE WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK-FILTER OUTLET. SEE STANDARD CONSTRUCTION DETAIL #18.



NOTES:

- INSTALL ON FLAT GRADE FOR OPTIMAL PERFORMANCE.
- 16" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
- A SUITABLE IMPERVIOUS GEOMEMBRANE LINER SHALL BE PLACED AT THE LOCATION PRIOR TO THE INSTALLING THE SOCKS.

COMPOST SOCK WASHOUT INSTALLATION

CONSULTANTS:

**Keystone** Consulting Engineers  
Structural Solutions  
8150 Perry Highway, Suite 302  
Pittsburgh, PA, 15237  
Phone: 412-369-9020  
Contact: Mark Sipos

**GATEWAY**  
The Gateway Engineering, Inc.  
A Full Service Civil Engineering Firm  
400 Holiday Drive, Suite 300  
Pittsburgh, PA, 15220  
Phone: 412-921-4030  
Contact: Sean Donnelly

**SEAN DONNELLY**  
ENGINEER  
PE-062433

**PIRSCHING, RUSBARSKY AND WOLF**  
ENGINEERING, INC.  
1500 ARDENNE BOULEVARD, SUITE 200  
PITTSBURGH, PA 15221  
Contact: Dave Rusbarsky

ARCHITECT/ENGINEERS:

**IKM**  
architecture  
planning  
interior design  
IKM Incorporated  
One PPG Place  
Pittsburgh, PA 15222  
Phone: 412-281-1337  
Contact: Joe Obrtiz

IKM Project No. 12-047

Drawing Title  
**EROSION AND SEDIMENT CONTROL DETAILS**  
Approved: Project Director

Project Title  
**AMBULATORY SURGERY ADDITION REDESIGN**  
Location VAMC 135 EAST 38th STREET, ERIE PENNSYLVANIA  
Date 12 MAR 2013  
Checked  
Drawn

Project Number  
**562-311**  
Building Number  
  
Drawing Number  
**C131**  
Dwg. 6 of 86

Office of Construction and Facilities Management  
Department of Veterans Affairs