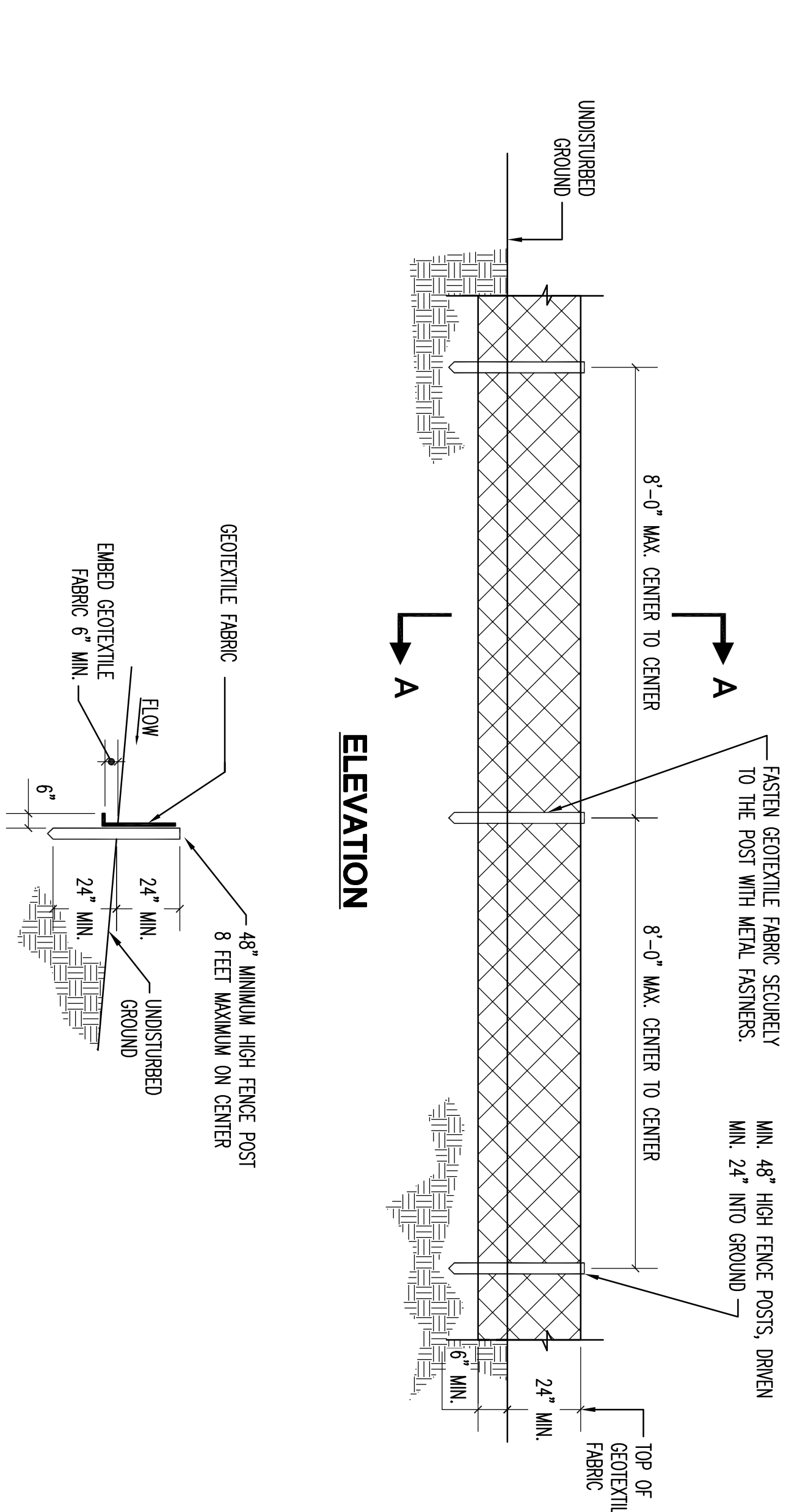


1. THE SOFTEST SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
2. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL OF NEW DESIGN.
3. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
4. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE RE-DESIGNATION OF REINFORCED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION.
5. IN THAT THE N.J.S.A. 424-29 d. SETO REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE FULFILLMENT OF THE CERTIFIED PLAN FOR EROSION CONTROL, HAVE BEEN COMPLETED WITH FOR PERMANENT MEASURES, ALL SITE WORK AND ALL WORK AROUND OUTSIDE LOTS IN SUBURBSIONS, MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A CERTIFICATE OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
6. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN THIRTY (30) DAYS, AND NOT SUBJECT TO CONSTRUCTION REPAIRS, WILL IMMEDIATELY REQUIRE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE SEEDING, THE DISTRICT WILL REQUIRE A COVER OR MULCH TO BE APPLIED TO THE EXPOSED AREAS OF THE EXISTING MATERIAL AT A RATE OF 2 TO 2 1/2 TONS PER ACRE, ACCORDING TO STATE STANDARD FOR STABILIZATION WITH MULCH ONLY.
7. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR SUITABLE EQUIVALENT, AT A RATE OF 1 1/2 TO 2 TONS PER ACRE, ACCORDING TO STATE STANDARDS.
8. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF TEMPORARY SEEDING TO STABILIZE EXPOSED AREAS. THE SUB-BASE SHALL BE APPLIED TO ALL AREAS WHERE NO UTILITIES ARE PRESENT. THE SUB-BASE SHALL BE INSTALLED WITHIN FIFTY (50) DAYS OF THE PRELIMINARY GRADING.
9. ANY STEEP SLOPES RECEIVING PERMANENT INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES (I.E. SLOPES GREATER THAN 3:1).
10. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A PAD OF CLEAN CROSSLAND STONE AT POINTS WHERE TRAFFIC WILL BE ACCESSING THE CONSTRUCTION SITE. AFTER INTERIOR AREAS ARE PAVED, OUTSIDE AREAS WILL REQUIRE A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF ONE FOOT AND TWO (2) FEET STONE FOR A MINIMUM LENGTH OF FIFTY (50) FEET TO THE LOT ENTRANCE WITH ALL EXISTING ACCESS POINTS SHALL BE LOCKED OFF.
11. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAYS WILL BE REMOVED IMMEDIATELY.
12. PERMANENT VEGETATION IS TO BE SEEDED OR SOWNED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING.
13. AT THE TIME THAT SITE PREPARATION OR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE COMPLETED, THE DISTRICT WILL REQUIRE THE CONTRACTOR TO PROVIDE A WRITTEN PLAN FOR THE VEGETATIVE GROUND COVER SHALL BE REMOVED OR RESEED, IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND NOT REQUIRE IT SUITABLE FOR AGRICULTURAL COVER. IF THE REMOVAL OR REPLACEMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
14. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH AND PRODUCING SOILS, ANY SOIL HAVING A pH OF 4 OR LESS OR CONTAINING IRON STRIPES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A pH OF 5 OR MORE PRIOR TO SEEDING PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A pH OF 5 OR MORE.
15. CLOTH OR OTHER PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE PAVEMENT SYSTEM BECOMING OPERATIONAL.
16. UNLIMITED OPERATIONS IS NOT PERMITTED. NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEMOLITION OPERATIONS TO MINIMIZE SEDIMENT TRANSPORT. ANY DEMOLITION METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DEMOLITION AS COVERED BY SPECIFICATION.
17. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED AS OFTEN AS ESTABLISHED OR WHEN MULCH SHALL BE APPLIED AS REQUIRED BY THE STANDARD OF DUST CONTROL.
18. STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMITS OF DISTURBANCE ACCORDING TO THE CERTIFIED AND APPROVED PLAN BY COR. STAGING AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE, WILL REQUIRE CERTIFICATION OF A COR. STAGING AND STOCKPILE AND SEDIMENT CONTROL PLAN. AREAS LESS THAN 3000 SQUARE FEET DO NOT REQUIRE ANY CERTIFICATION.
19. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL, NOTE #B.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS RESULT OF CONSTRUCTION OF THE PROJECT.
21. THE CONTRACTOR SHALL INSTALL TEMPORARY Silt FENCES ADJACENT TO AND DOWNSTREAM OF ALL STOCKPILES THAT WILL REMAIN FOR ANY PERIOD LONGER THAN ONE DAY.
22. THE CONTRACTOR SHALL INSTALL TEMPORARY silt PROTECTION DOWNSTREAM OF AND WITHIN 100 FEET OF ANY AREAS DISTURBED BY EXCAVATION OR EMBANKMENT ACTIVITIES. PROTECTION SHALL BE MAINTAINED UNTIL THE DISTURBED AREAS HAVE RECEIVED FINAL RESTORATION AND STABILIZATION.
23. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF STABILIZED CONSTRUCTION ENTRANCES WITH THE CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE AND SHALL INSTALL SUCH ENTRANCES PRIOR TO CONSTRUCTION.

## SEQUENCE OF CONSTRUCTION

1. CONTRACTOR TO SHIELD SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE SOULEST SOIL CONSERVATION DISTRICT FOR A PART OF THE PLAN. THE PART TO BE DISTURBED IS IN ACCESS OF 7 ACRE (43,500 SQUARE FEET) AND A REQUEST FOR AUTHORIZATION SHALL BE OBTAINED FROM THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION.
2. INSTALL ALL SOIL EROSION AND SEDIMENT CONTROL, WEAPONES SITE FENCE, AND STABILIZED CONSTRUCTION ACCESS. MAINTAIN THESE WEAPONES IN PROPER CONDITION UNTIL PERMANENT PROTECTION HAS BEEN SUBMITTED.
3. COMPLETE ALL DEMOLITION AND COMPLETE FINAL GRADING.
4. START INITIAL LANDSCAPING AND PERMANENT SOIL STABILIZATION.
5. COMPLETE LANDSCAPING AND FINAL SOIL STABILIZATION AND PROCEED WITH FINAL CLEAN-UP OF SITE.
6. REMOVE SOIL EROSION AND SEDIMENT CONTROL WEAPONES AFTER AREAS DISTURBED DURING CONSTRUCTION HAVE BEEN SUFFICIENTLY STABILIZED AND ALL FINAL INSPECTION CONDUCTED & ACCEPTED BY CONTRACTOR OFFICER.



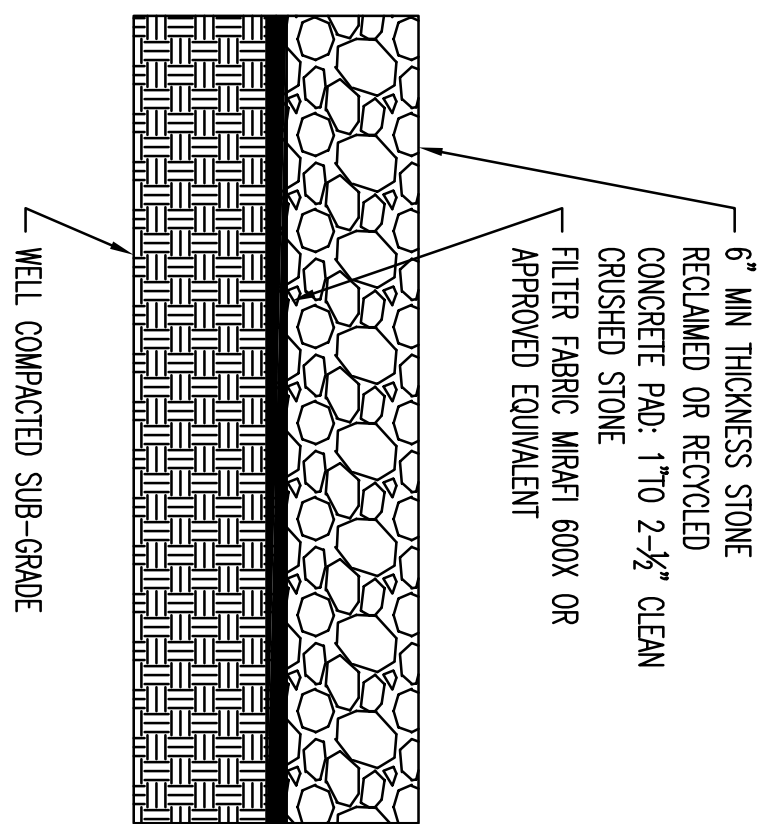
## SECTION A-A

# SILT FENCE DETAIL

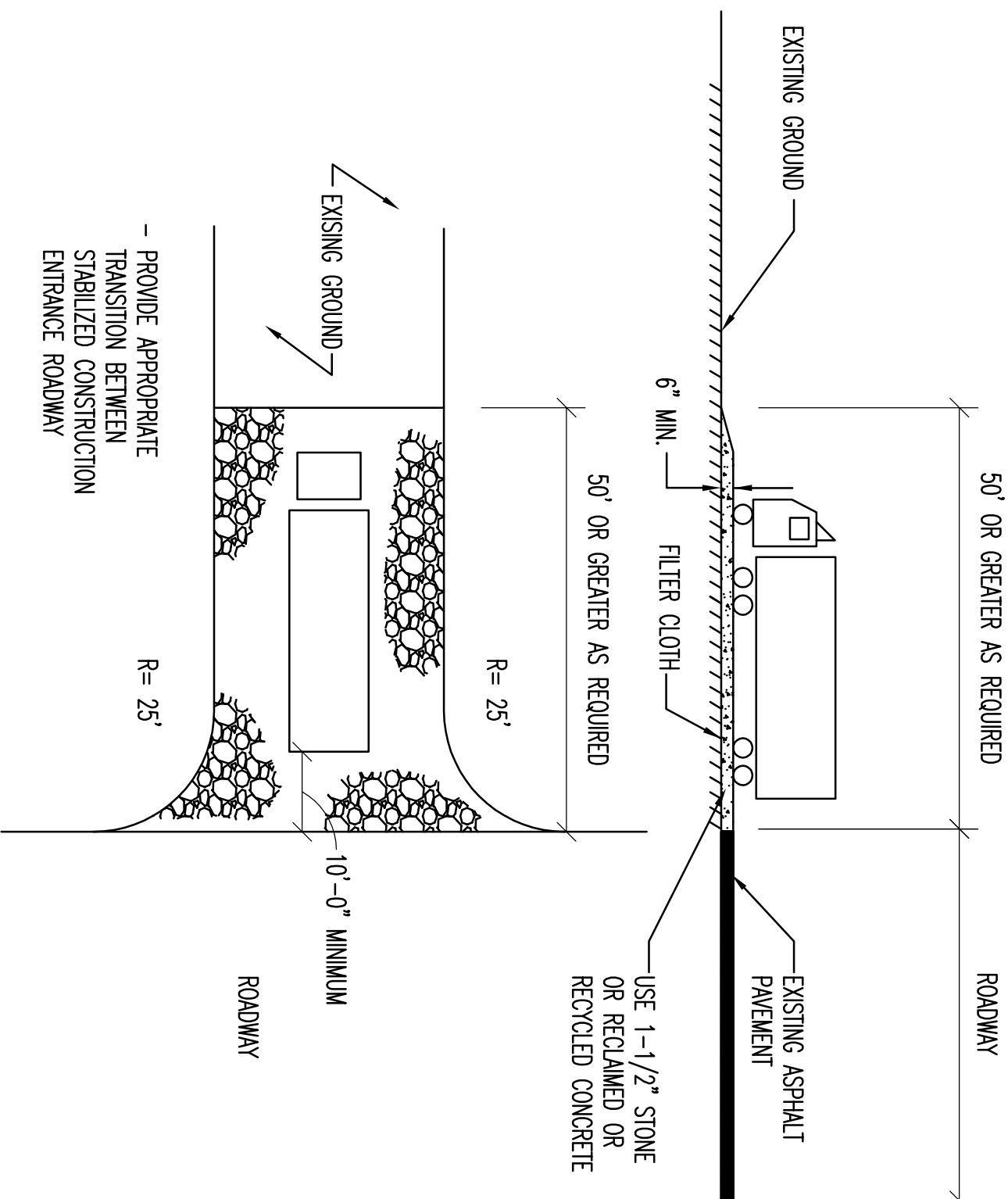
NOT TO SCALE

## **SILT FENCE CONSTRUCTION SPECIFICATIONS**

1. HIGH STRENGTH POLYPROPYLENE LIFTING SHALL BE FASTENED SECURELY TO FENCE POSTS WITH NINE TIES OR STAPLES.
  2. GEOTEXTILE FABRIC SHALL BE FASTENED SECURELY TO FENCE MATERIAL WITH TIES SPACED EVERY 24" AT TOP AND MID-SECTION.
  3. WHEN TWO SECTIONS OF GEOTEXTILE FABRIC ALONG EACH OTHER THEY SHALL BE OVERLAPPED BY 6", FOLDED AND STAPLED TO PREVENT SEAMING PRESS.
  4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND ACCUMULATED MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SUT FENCE.
  5. SUT FENCE GEOTEXTILE FABRIC: THE FABRIC FOR THE SUT FENCE SHALL MEET THE FOLLOWING SPECIFICATIONS:
- | MINIMUM ACCEPTABLE<br>FABRIC PROPERTIES | TEST<br>VALUES | METHOD                   |
|-----------------------------------------|----------------|--------------------------|
| GRAB TENSILE<br>STRENGTH (lbs)          | 90             | ASTM D1682               |
| ELONGATION<br>AT FAILURE (%)            | 50             | ASTM D1682               |
| MULLET BURST<br>STRENGTH (lbs)          | 190            | ASTM D3786               |
| PUNCTURE<br>STRENGTH (lbs)              | 40             | ASTM D751<br>modified    |
| EQUIVALENT OPENING<br>SIZE              | 40-80          | US Std Sieve<br>C#-42715 |
6. FENCE POSTS (FOR FABRICATED UNITS): THE POST SHALL BE A MINIMUM OF 48 INCHES LONG, WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD WITH A MINIMUM 2 INCHES DIAMETER.
  7. HIGH STRENGTH REINFORCEMENT MATERIAL (Nylon, WEAVING, GROMMETS, WASHERS ETC.) SHALL BE PLACED BETWEEN THE FABRIC AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAW STRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.
  8. PREFABRICATED UNITS: PREPARED UNITS MAY BE USED IN LIEU OF THE ABOVE METHOD, PROVIDING:
    - a. THE GEOTEXTILE AND FENCE POSTS MEET THE ABOVE CRITERIA
    - b. THE UNIT IS INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.



## STABILIZED CONSTRUCTION PAD



## **STABILIZED CONSTRUCTION ACCESS**

## STABILIZED CONSTRUCTION ENTRANCE DETAIL

## **CONSTRUCTION ENTRANCE SPECIFICATIONS**

1. VEHICLES AND MACHINERY CONSTRUCTION ENTRANCES AT ALL LOCATIONS. PROVIDE ACCESS CONSTRUCTION AREAS FROM PAVED ROADSWAYS.
2. STONE SIZE – USE SIZE #2 STONE, OR EQUIVALENT OR RECYCLED CONCRETE EQUIVALENT.
3. LENGTH – AS REQUIRED, BUT NOT LESS THAN 50 FEET.
4. THICKNESS – NOT LESS THAN SIX (6) INCHES.
5. WIDTH – 20 FEET.
6. GEOTEXTILE FABRIC – SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
7. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE, SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
8. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO OTHER CAMPUS AREA. THIS WAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANUP OF ANY WEARINGS USED TO TRAP SEDIMENT. ALL SEDIMENT SHALL BE PROPERLY WASHED, OR TRACKED ONTO OTHER CAMPUS AREA, SHALL BE REMOVED IMMEDIATELY.
9. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO OTHER CAMPUS AREA WHEN WASHING IS REQUIRED. IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
10. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
11. THE GEOTEXTILE FABRIC SHALL BE A WOVEN OR NONWOVEN FABRIC CONSISTING ONLY OF CERTAIN CHAIN POLYMER FILAMENTS OR YAMS OF POLYESTER. THE FABRIC SHALL BE INERT TO COMMONLY ENCOUNTERED CHEMICALS, HYDRO-CARBONS, ALKYLEN, ROT RESISTANT, AND CONFORM TO THE PROPERTIES OF THE FOLLOWING TABLE:

TEST	MEASURED	ASTM D1682	HAUL RODS ROUGH GRADED HEAVY DUTY
FABRIC PROPERTIES			
6006 TENSILE		220	
STRENGTH (lbs)			
5000 PULP		50	
STRENGTH (lbs)		430	
MILLEN DIRECT			
PUNCTURE STRENGTH (lbs)		125	
EQUIMENT OPENING SIZE			
EQUIMENT DEPTH (in.)		40-80	
		10	

Drawing Title <b>SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS</b>	Project Title <b>REPLACE SITE LIGHTING AT VA LYONS CAMPUS</b>	Date <b>23 MARCH, 2010</b>
Approved: Service Director	Building Number <b>JU</b>	Project No. <b>65144-08-103</b>
Location <b>VA Lyons Campus, NJHCS, Lyons, NJ</b>	Checked <b>GMN</b>	Drawing No. <b>C21</b>
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