

OUTLET NO.	PIPE DIA. Pd (IN)	RIPRAP			INITIAL WIDTH Aiw (FT)	TERMINAL WIDTH Atw (FT)
		SIZE (R-)	THICK (IN)	LENGTH (FT)		
FEST00	15	4	18	13.75	3.75	16.75

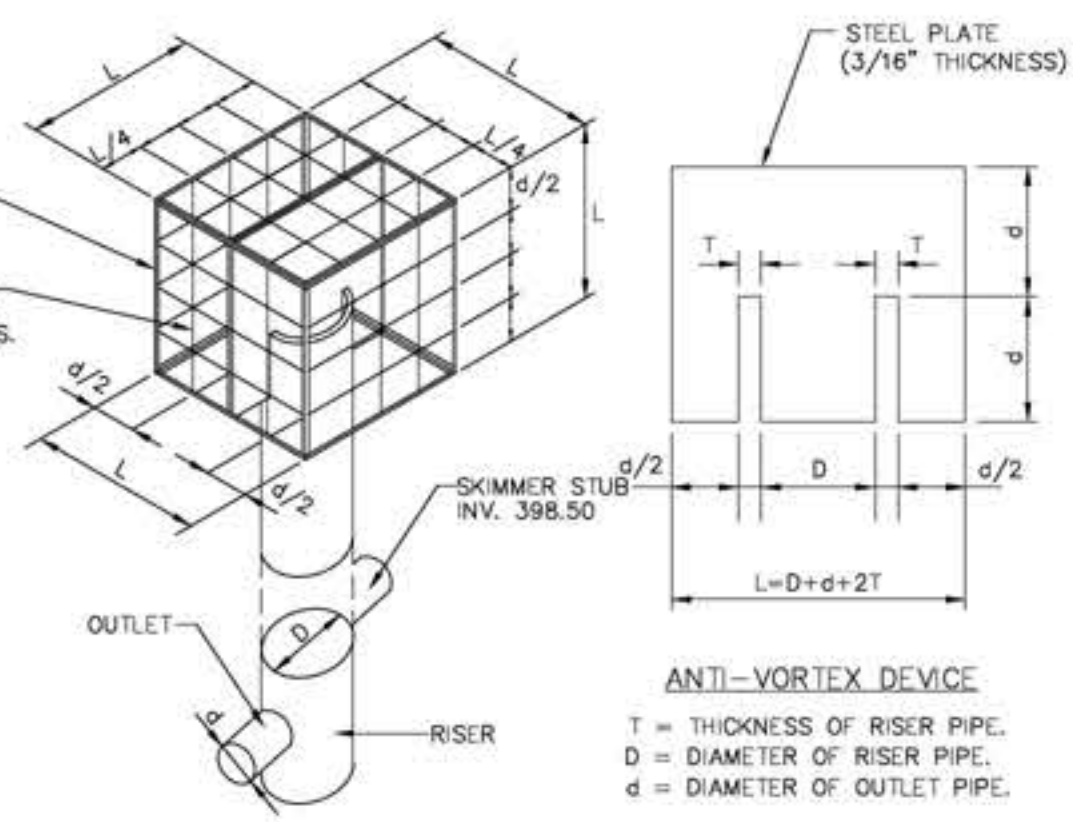
- NOTES:
- ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.
  - ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.
  - EXTEND RIPRAP ON BACK SIDE OF APRON TO AT LEAST 1/2 DEPTH OF PIPE ON BOTH SIDES TO PREVENT SCOUR AROUND THE PIPE.

**SEDIMENT TRAP CONVERSION/DECOMMISSIONING SEQUENCE**

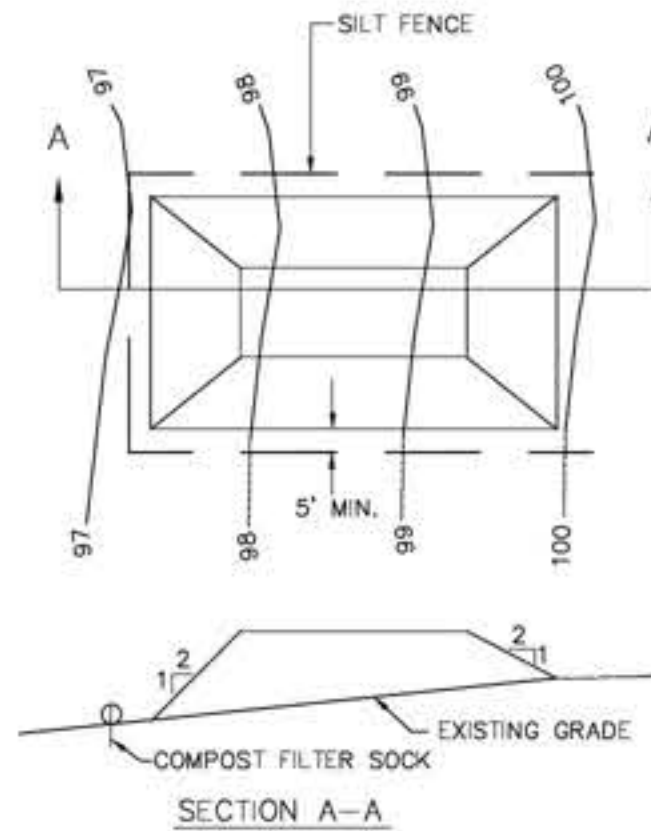
NOTE: PRIOR TO BASIN REMOVAL ALL EARTH DISTURBANCE MUST BE COMPLETED AND ALL AREAS MUST BE STABILIZED WITHIN 70% OF THE TRIBUTARY AREAS OF THE TRAP TO BE REMOVED UNLESS ALTERNATIVE CONTROLS ARE IN PLACE.

- COLLECT ALL SILT AND SEDIMENT DEPOSITS IN EROSION CONTROL DEVICES AND PLACE ON SITE IN NON-CRODIBLE AREAS AND PERMANENTLY STABILIZE ALL DISTURBED AREAS. TEMPORARY EROSION CONTROLS MAY NOT BE REMOVED UNTIL STABILIZATION IS ATTAINED. FOR UNIFORM COVERAGE OF A PERENNIAL VEGETATIVE SPECIES AS DETERMINED BY A SITE INSPECTION AND APPROVAL BY THE MONTGOMERY COUNTY CONSERVATION DISTRICT, NO STORMWATER SHALL BE PERMITTED TO ENTER A BMP AREA UNTIL 70% OF PERMANENT SITE STABILIZATION, AS DESCRIBED ABOVE, IS ATTAINED.
- ANY STORM SEWER WHICH INTRODUCES RUNOFF TO SEDIMENT TRAP SHALL BE FLUSHED TO REMOVE ALL SEDIMENT.
- DEWATER THE SEDIMENT TRAP PER AN APPROPRIATE METHOD.
- REMOVE DEWATERING STRUCTURE AND OUTLET STRUCTURE MATERIAL.
- ACCUMULATED SEDIMENT SHALL BE REMOVED ALONG COMPOST FILTER SOCKS, REGRADED, AND STABILIZED ELSEWHERE ON THE SITE. SEDIMENT SHALL ALSO BE REMOVED FROM THE SEDIMENT TRAP NO. AT THE CLEANOUT ELEVATION, THE SEDIMENT SHALL BE SPREAD ELSEWHERE ON THE SITE AND SEEDED.
- CRITICAL STAGE OF CONSTRUCTION: CONTACT ENGINEER PRIOR TO THE REMOVAL OF SEDIMENT TRAP NO. AS REQUIRED.

- SEDIMENT TRAP
- UPON REMOVAL OF SEDIMENT AND STABILIZATION OF ALL DISTURBED AREAS, REMOVE AND DISPOSE OF ANY TEMPORARY PIPE(S), RISER AND BARREL.
  - EXCAVATE FOR PERMANENT STORMWATER MANAGEMENT FACILITY CONSTRUCTION.
  - REFER TO THE INDIVIDUAL CONSTRUCTION SEQUENCES.
  - RESTORE AREA TO THE PERMANENT ELEVATIONS AND STABILIZE PER PERMANENT SEED AND MULCH SPECIFICATIONS.

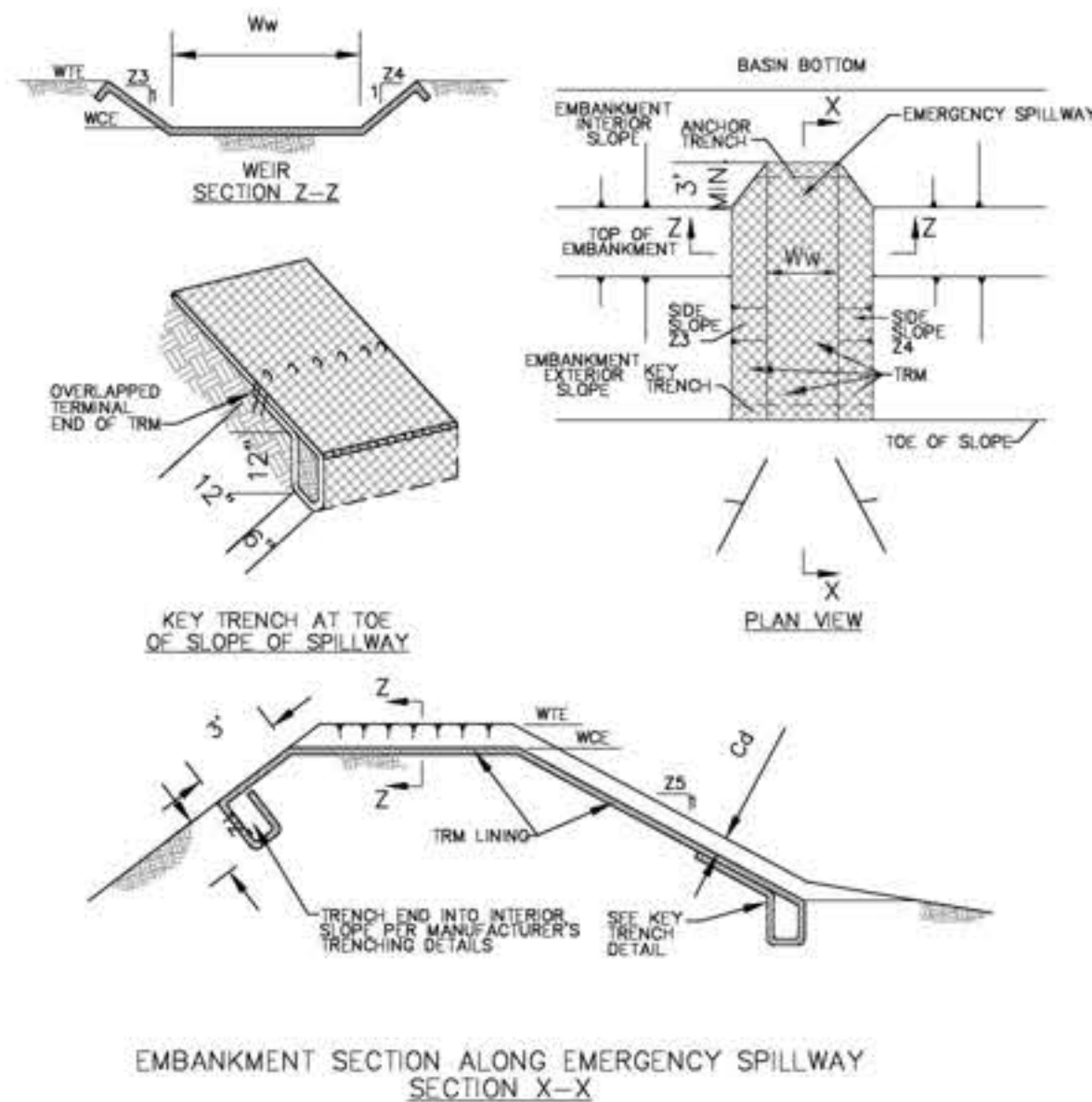


TRASH RACKS AND ANTI-VORTEX DEVICES



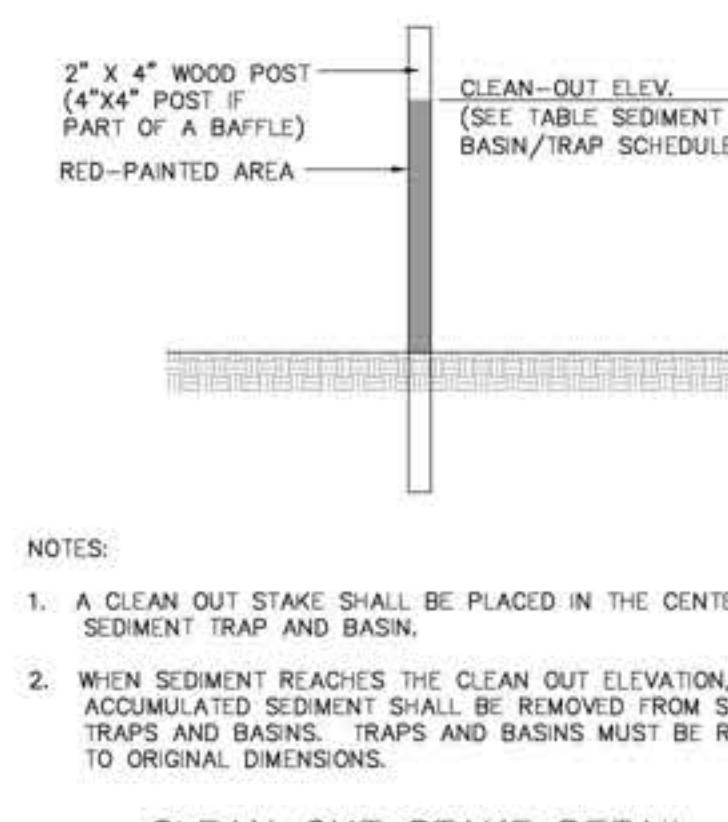
- NOTES:
- PLACE STOCKPILES AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
  - ALL SIDE SLOPES SHALL BE 2 TO 1 OR FLATTER.
  - STOCKPILE SHALL RECEIVE A VEGETATIVE COVER IN ACCORDANCE WITH MINIMUM STABILIZATION REQUIREMENTS.
  - COMPOST FILTER SOCK SHALL BE INSTALLED AS DETAILED HEREON.
  - LOCATION OF PROPOSED STOCKPILE WHICH AFFECTS EROSION CONTROLS ARE SHOWN SCHEMATICALLY ONLY. ACTUALLY STOCKPILE LOCATION MAY CHANGE DURING CONSTRUCTION.
  - STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET.
  - STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).

STOCKPILE DETAIL

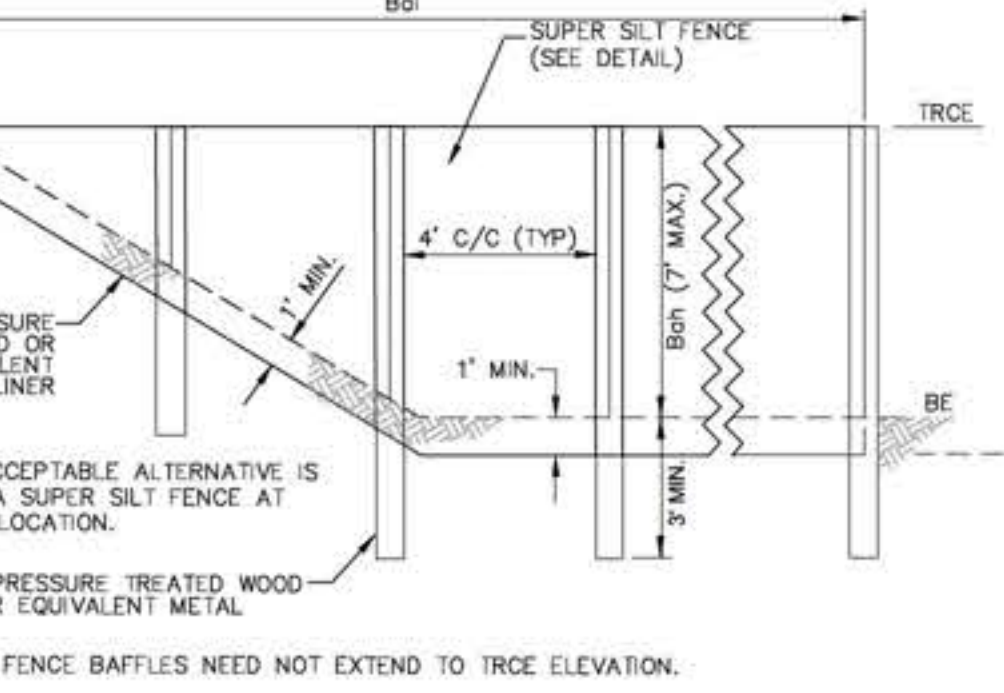


EMERGENCY SPILLWAY DETAIL

SEDIMENT TRAP NO.	WEIR		TOP CREST ELEV WTE (FT)	TOP CREST ELEV WTW (FT)	WIDTH (FT)	TRM TYPE	STAPLE PATTERN	Z5 (FT)	DEPTH Cd (FT)
	Z3 (FT)	Z4 (FT)							
#1	3	3	415.25	414.00	100	NAG ST10BN	D	3	1.5



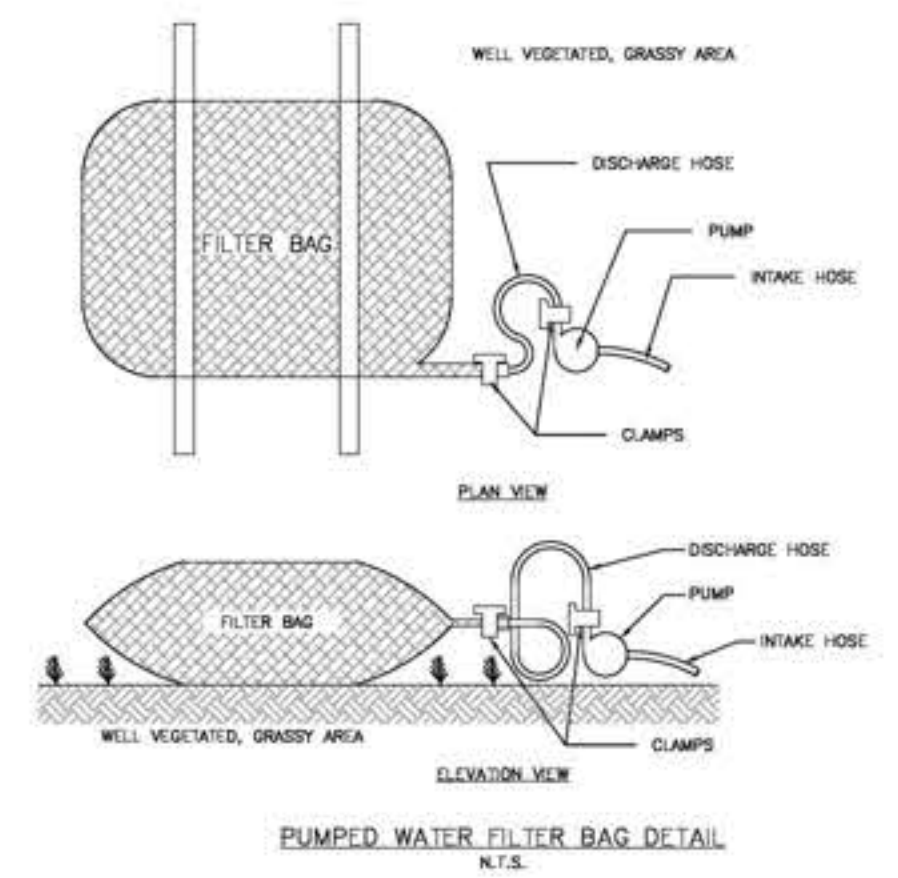
CLEAN OUT STAKE DETAIL



- NOTES:
- SEE APPROPRIATE BASIN DETAIL FOR PROPER LOCATION AND ORIENTATION.
  - BAFFLES SHALL BE TIED INTO ONE SIDE OF THE BASIN UNLESS OTHERWISE SHOWN ON THE PLAN DRAWINGS.
  - SUBSTITUTION OF MATERIALS NOT SPECIFIED IN THIS DETAIL SHALL BE APPROVED BY THE DEPARTMENT OR THE LOCAL CONSERVATION DISTRICT BEFORE INSTALLATION.
  - DAMAGED OR WARPED BAFFLES SHALL BE REPLACED WITHIN 7 DAYS OF INSPECTION.
  - BAFFLES REQUIRING SUPPORT POSTS SHALL NOT BE INSTALLED IN BASINS REQUIRING IMPERVIOUS LINERS.

BASIN OR TRAP NO.	BAFFLE		TEMPORARY RISER CREST ELEV (FT)	BOTTOM BE (FT)
	LENGTH (FT)	HEIGHT (FT)		
#1	105 (2 EA)	3.00	412.00	409.00

SUPER SILT FENCE Baffle DETAIL



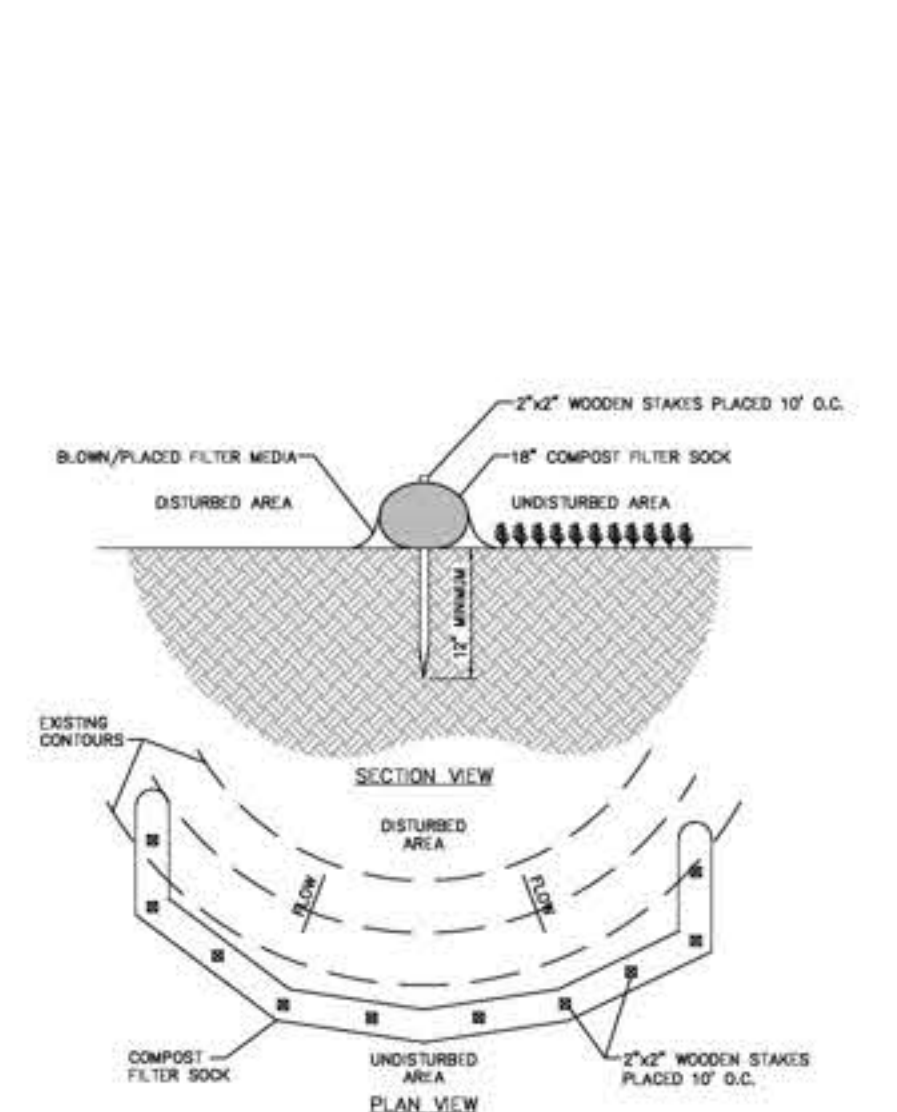
PUMPED WATER FILTER BAG DETAIL

NOTES:

- LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL WITH HIGH STRENGTH, DOUBLE STITCHED "Z" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 100 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WDE WIDTH STRENGTH	ASTM D-4864	60 LB/N
GRAB TENSILE	ASTM D-4832	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLIN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS & RETAINED	ASTM D-4791	80 SEVE

- A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME X FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT ARE FULL 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 IN STONE OR CONCRETE 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 DOWNSTREAM SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BASE LOCATED IN 42 OR 14 WATERHEADS, 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 INLET SHALL BE FLOATING AND SOAKING.
- FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.



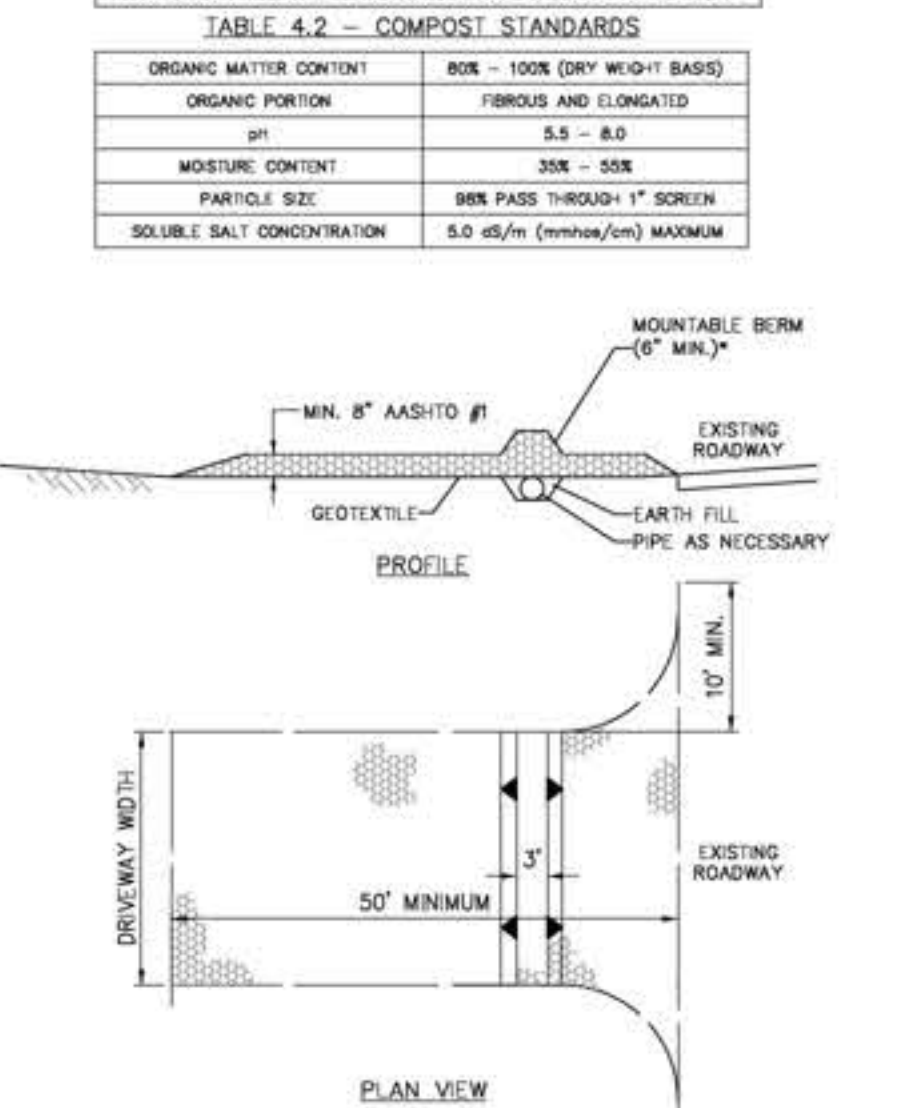
- NOTES:
- SOCK FABRIC SHALL MEET THE STANDARDS OF TABLE 4.1. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2.
  - COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.
  - TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
  - ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF TECH SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
  - SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
  - BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS. PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATION.
  - 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.
  - REFER TO L&S PLAN FOR COMPOST SOCK LOCATIONS, SIZE, IDENTIFICATIONS AND CONSTRUCTION SPECIFICATIONS.

TABLE 4.1 - COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

MATERIAL TYPE	3 ML VOLS		5 ML VOLS		8 ML VOLS	
	PROB. DEGRADABLE	PHOTO-DEGRADABLE	PROB. DEGRADABLE	PHOTO-DEGRADABLE	PROB. DEGRADABLE	PHOTO-DEGRADABLE
SOCK DIMENSIONS	12"	12"	12"	12"	12"	12"
	12"	12"	12"	12"	12"	12"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	3/8"	1/4"
	38 PS	38 PS	38 PS	38 PS	38 PS	302 PS

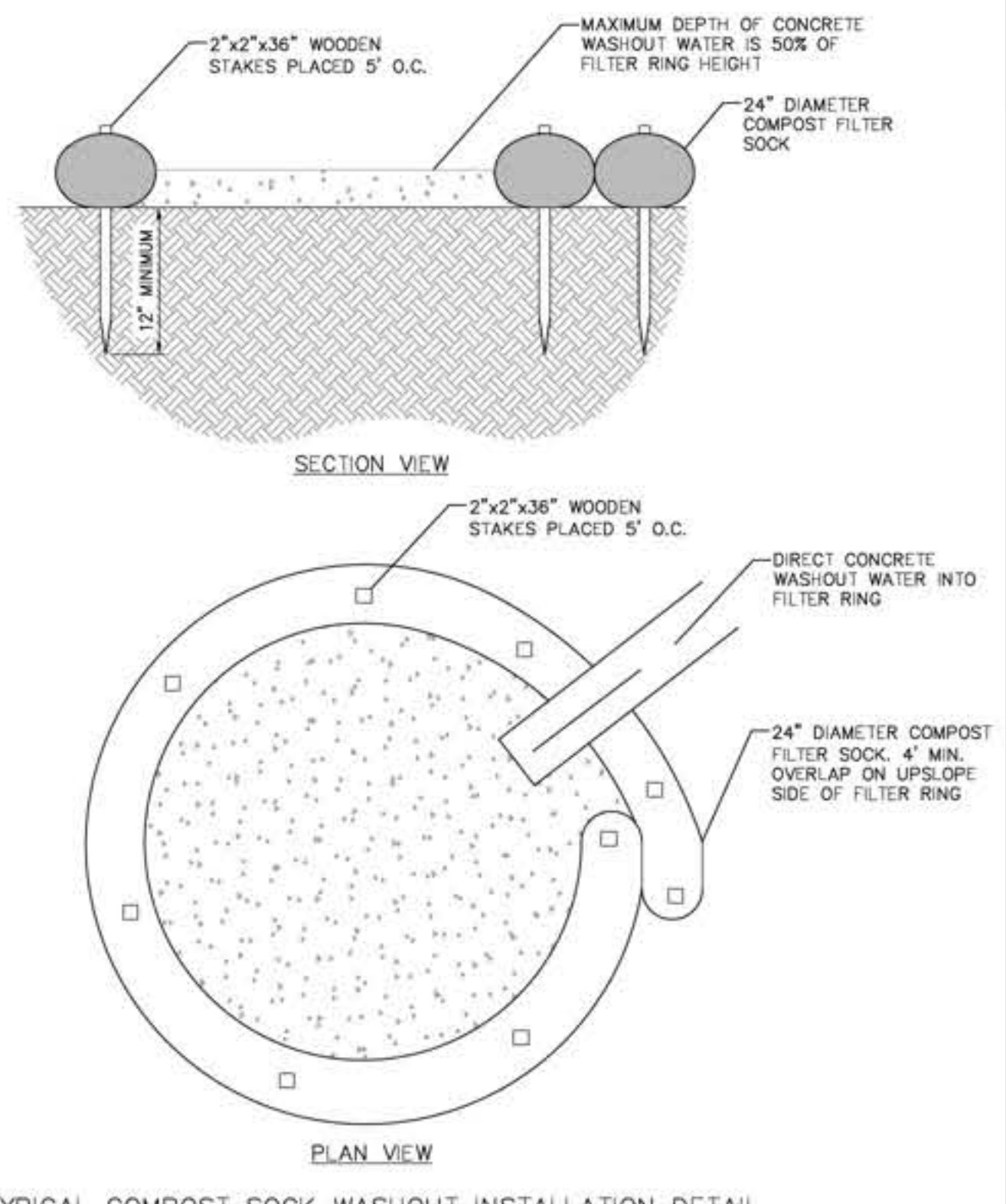
TABLE 4.2 - COMPOST STANDARDS

ORGANIC MATTER CONTENT	ROCK - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
SPH	5.5 - 8.0
MOISTURE CONTENT	35% - 55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 mg/L (maximum/50% MAXIMUM)



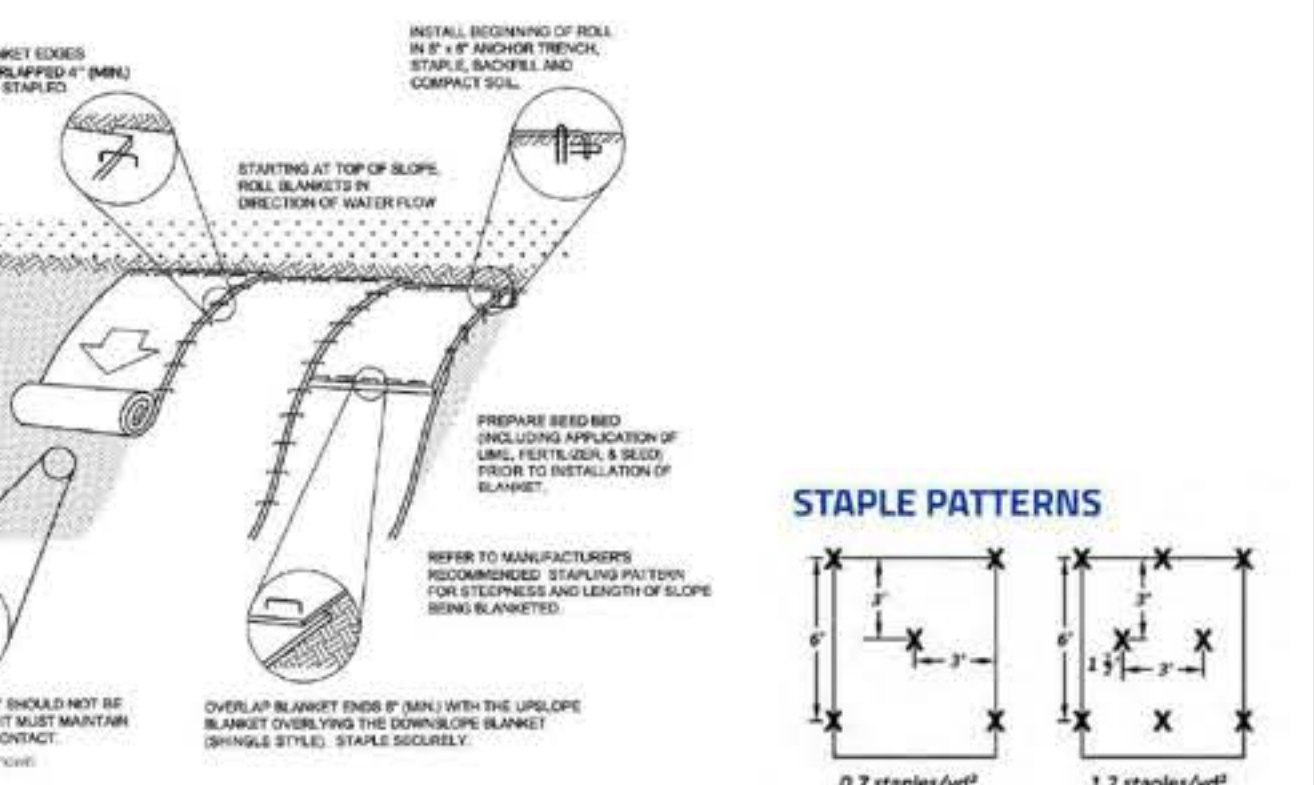
ROCK CONSTRUCTION ENTRANCE DETAIL

- NOTES:
- REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
  - RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
  - MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CURBPIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
- MAINTENANCE:
- ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTENDING LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INTO WASH BACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, COLLECTORS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.



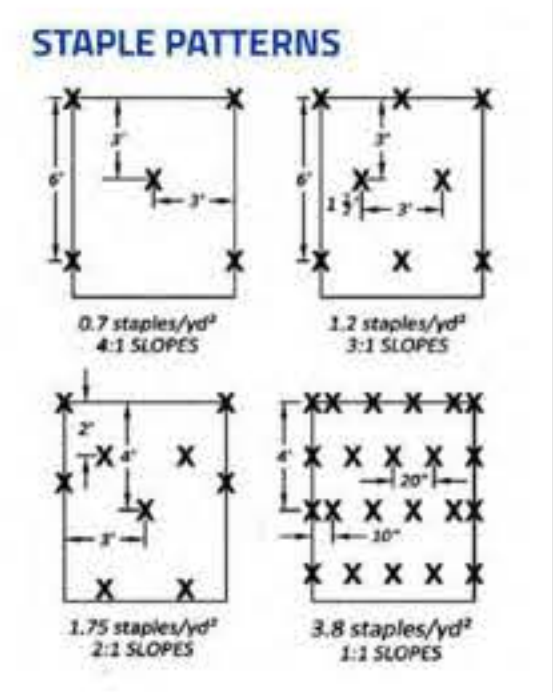
TYPICAL COMPOST SOCK WASHOUT INSTALLATION DETAIL

- NOTES:
- INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
  - 18" DIAMETER SILT SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SILK SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
  - A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.



EROSION CONTROL BLANKET DETAIL

- NOTES:
- USE JUTE OR COIR MATTING W/ WOOD STAKES.
  - NO PLASTIC/ POLYPROPYLENE MATERIALS ARE ALLOWED.



**EROSION AND SEDIMENT CONTROL DETAILS**

**SITE IMPROVEMENT PLANS FOR UPPER POTTS GROVE MUNICIPAL BUILDING COMPLEX**  
UPPER POTTS GROVE TOWNSHIP - MONTGOMERY COUNTY - PENNSYLVANIA

PROJECT NO. 22096

**CVE ChesterValley ENGINEERS, INC.**  
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SCALE: As Noted DATE: 07/01/2024 DRAWN BY: HL CHECKED BY: MJ DRAWING: ES-4