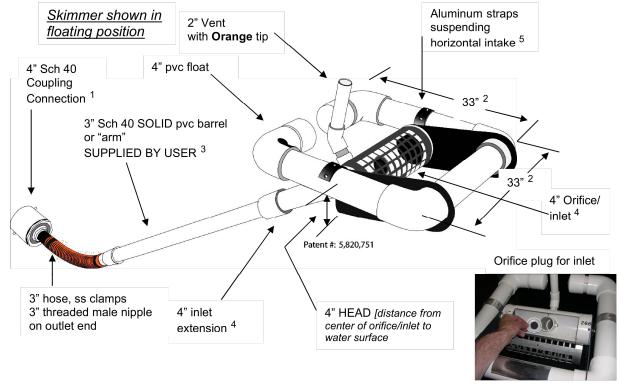


4" Faircloth Skimmer® Surface Drain Cut Sheet J. W. Faircloth & Son, Inc. www.FairclothSkimmer.com

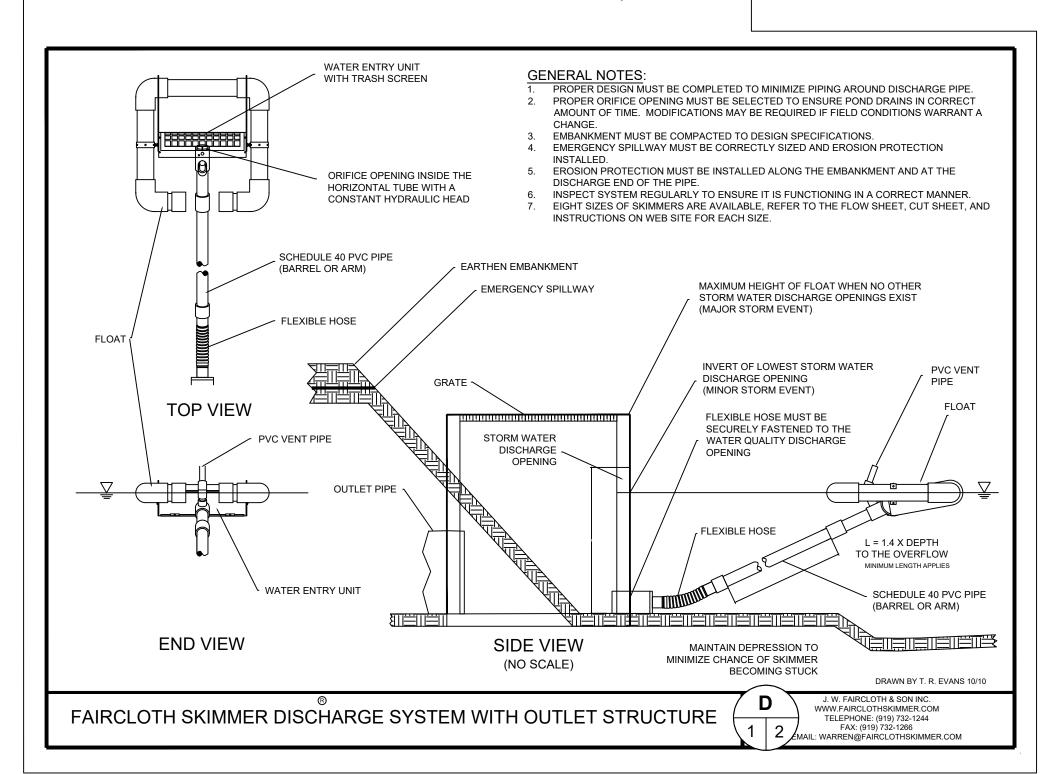


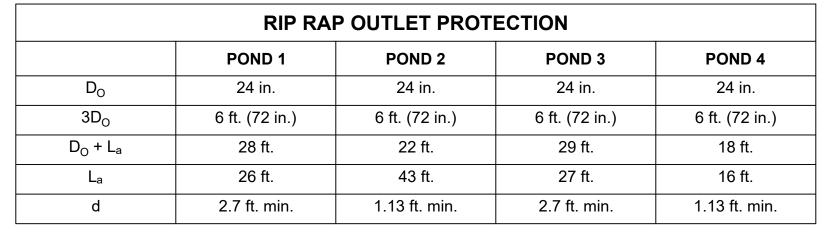
- 1. Coupling can be removed and hose attached to outlet using the threaded 3" nipple. Typical methods used: a) a metal structure with a steel stub out welded on the side at the bottom with a 3" threaded coupling or reducer(s); b) a concrete structure with a hole or orifice at the bottom - use a steel plate with a hole cut in it and coupling welded to it that will fit over the hole in the concrete and bolted to the structure with sealant; or c) it is possible to grout a 4" pvc pipe in a hole in the concrete to connect the
- skimmer but this is less secure than other methods. 2. Dimensions are approximate, not intended as plans for construction.

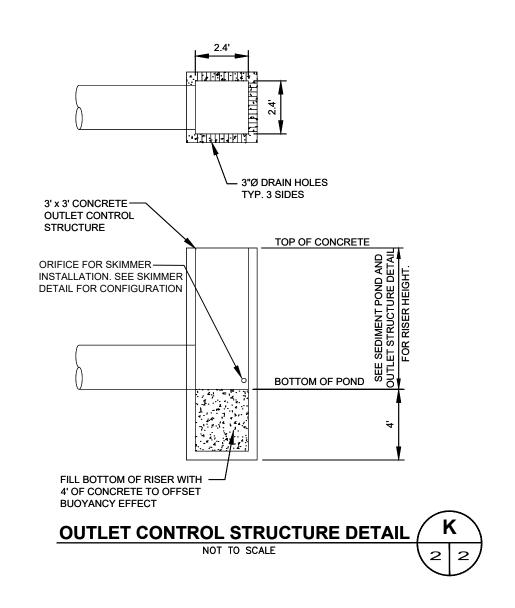
(smaller than shown in illustration) for access to the 4" inlet and orifice inside.

4inchCut 5-1-2019

- 3. Barrel (solid, not foam core pipe) should be 1.4 times the depth of water with a minimum length of 8' so the inlet can be pulled to the side for maintenance. If more than 10' long, weight may have to be added to inlet to counter the increased buoyancy.
- 4. Orifice/inlet tapers down from 4" maximum inlet to a 3" barrel and hose. Barrel is smaller to reduce buoyancy and tendency to lift inlet but is sufficient for flow through inlet because of slope. The orifice/inlet can be reduced using the plug and cutter provided to control the outflow rate – see #6.
- 5. Horizontal intake is 8" pipe between the straps with slots cut in the inlet and aluminum screen door
- 6. Capacity: 20,109 cubic feet per day maximum with 4" inlet and 4" head. Inlet can be reduced by installing a smaller orifice using the plug and cutter provided to adjust flow rate for the particular drawdown time required. Please use the sizing template at www.fairclothskimmer.com
- 7. Ships assembled. User glues inlet extension and barrel, installs vent, cuts orifice in plug and attaches to outlet pipe or structure. Includes float, flexible hose, rope, orifice plug and cutter. Does NOT include 3" Sch 40 SOLID pvc barrel or "arm" SUPPLIED BY USER.
 - © J. W. Faircloth & Son, Inc. 2019







			PLANTING			Planting Dates*										
COMMON NAME⁵	BOTANICAL NAME	APPROVED SITE(S)	RATE (lbs/acre)	PLANTING LOCATION	JAN	FEB	MAR	APR	MAY	NOI	ĴΓ	AUG	SEP	ост	NON	0
TURF-TYPE GRASSES (SEL	ECT ONE)															
Bahiagrass ¹	Paspalumnotatum	Slopes	30	UpperState												Ļ
Common Bermudagrass ² (hulled = hull absent)	Cynodondactylon	Shoulders, Slopes, or Medians	25	LowerState UpperState LowerState												t
Common Bermudagrass ² (unhulled = hull present)	Cynodondactylon	Shoulders, Slopes, or Medians	30	UpperState LowerState												Ī
Carpet Grass	Axonopusaffinis	Shoulders, Slopes or Medians	15	UpperState LowerState												Ī
Tall Fescue	Festucaaruninacea	Shoulders, Slopes, or Medians	50	UpperState LowerState												Ī
Centipedegrass	Eremochloaophiuro ides	Shoulders, Medians	10	UpperState LowerState												ŧ
GRASSES				20110101010				_								
Weeping Lovegrass	Erograstiscurvula	Slopes	5	UpperState LowerState												F
Indiangrass	Sorghastrumnutans	Slopes	10	UpperState LowerState												I
Little Bluestem	Andropogonscopari us	Slopes	10	UpperState LowerState												F
Coastal Panicgrass	Panicumamarum	Slopes	20	UpperState LowerState												F
Switchgrass	Panicumvirgatum	Slopes	10	UpperState LowerState												F
Perennial Rye Grass ³	Loliumperrene	Shoulders, Slopes, or Medians	15	UpperState LowerState												Ī
Virginia Wild Rye	Elymusvirginicus	Shoulders, Slopes, or Medians	6	UpperState LowerState												F
LEGUMES ⁴						_							_			
White Clover	Trifoliumrepens	Shoulders, Slopes	5	UpperState LowerState												H
Sericea Lespedeza (Scarified seed)	Lespedeza cuneta	Slopes	50	UpperState LowerState												Ħ
Sericea Lespedeza	Lespedeza cuneta	Slopes	80	UpperState LowerState												Ī

PLANTING SCHEDULE

		2 /			
	Ε				TOLERANCES-UNLESS NOTE
	D				FRACTIONAL: ± 1/16" DECIMAL: ± 0.010"
-	С				ANGLE: ± 0.1°
synlema	В				THIS DRAWING IN DESIGN AND DETAIL IS THI PROPERTY OF VULCAN MATERIALS COMPANY
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864-421-9999 www.synterracorp.com		DATE	REVISION	BY	DRAWING MUST NOT BE COPIED, REPRODUCE OR USED WITHOUT PERMISSION.



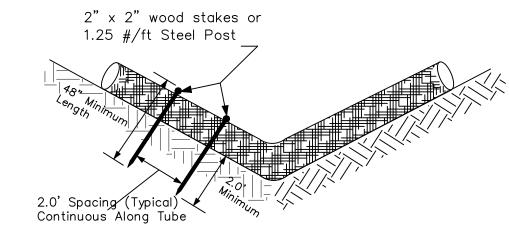
EROSION AND SEDIMENT CONTROL DETAILS

April 4, 2011

DIVISION	FAIRFIELD	QUARRY
BY J. COLEMAN BY B. GREEN BATE 02/48/2020	PROJ. NO.	FILE SERVER
 홈 DATE 02/18/2020 불 DATE 02/18/2020	SCALE N.T.S.	SHEET 2 OF 4
DWG. NO.		REV.
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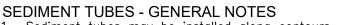
Page 4

SEDIMENT TUBE INSTALLATION



SEDIMENT TUBE SPACING

SLOPE	MAX. SEDIMENT TUBE SPACING					
LESS THAN 2%	150-FEET					
2%	100-FEET					
3%	75-FEET					
4%	50-FEET					
5%	40-FEET					
6%	30-FEET					
GREATER THAN 6%	25-FEET					



Sediment tubes may be installed along contours, in drainage conveyance channels, and around inlets to help prevent off-site discharge of sediment-laden stormwater runoff.

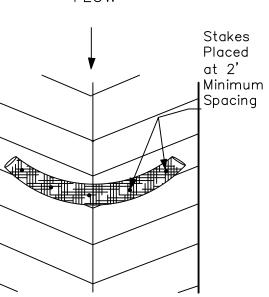
- 2. Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pine needle, and leaf mulch-filled sediment tubes are not permitted.
- The outer netting of the sediment tube should consist of seamless, high—density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high—density polyethylene non-degradable material.
- Sediment tubes, when used as checks within channels, should range between 18-inches and 24-inches depending on channel dimensions. Diameters outside this range may be allowed where necessary when approved.
- Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed.
- 6. Sediment tubes should be staked using wooden stakes (2-inch X 2-inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) at a minimum of 48—inches in length placed on 2—foot centers.
- Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufacturer's recommendations should always be consulted before
- 8. The ends of adjacent sediment tubes should be overlapped 6—inches to prevent flow and sediment from passing through the field joint.

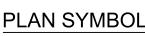
9. Sediment tubes should not be stacked on top of one

11. Sediment tubes should continue up the side slopes a minimum

- another, unless recommended by manufacturer. 10. Each sediment tube should be installed in a trench with a
- depth equal to 1/5 the diameter of the sediment tube.
- of 1—foot above the design flow depth of the channel. 12. Install stakes at a diagonal facing incoming runoff.









SEDIMENT TUBES - INSPECTION & MAINTENANCE 1. The key to functional sediment tubes is weekly inspections,

routine maintenance, and regular sediment removal.

- 2. Regular inspections of sediment tubes shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of
- 3. Attention to sediment accumulations in front of the sediment tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- 4. Remove accumulated sediment when it reaches 1/3 the height of the sediment tube.
- 5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- 6. Large debris, trash, and leaves should be removed from in front of tubes when found.
- 7. If erosion causes the edges to fall to a height equal to or below the height of the sediment tube, repairs should be made immediately to prevent runoff from bypassing tube.
- 8. Sediment tubes should be removed after the contributing drainage area has been completely stabilized. Permanent vegetation should replace areas from which sediment tubes have been removed.

South Carolina Department of Health and Environmental Control

SEDIMENT TUBES

TANDARD DRAWING NO.

GENERAL NOTES FEBRUARY 2014 DATE

TYPICAL SEDIMENT TUBE DETAIL

Turf Reinforcement Mats

Turf Reinforcement Mats (TRMs)

Plan Symbol



Turf Reinforcement Mats are products composed primarily of nondegradable products that enhance the ability of living plants to stabilize soils. They bind with roots to reinforce the soil matrix with longevity

When and Where to Use It

Use TRMs where vegetation alone will not hold a slope or streambank. TRMs enable the use of "green" solutions in areas where only "hard" solutions such as riprap or concrete linings were viable in the past.

- TRM Categories Type 1, Type 2, Type 3, and Type 4.
- Types 1 & 2 TRMs are a strong three-dimensional stable net structure. A degradable fiber matrix may be included to provide immediate coverage for bare soil.
- Type 1 matting should be placed on slopes 2H:1V or flatter or in channels where the calculated
- design shear stress is 4.0 lb/ft2 or less and the design flow velocity is up to 10 fps. Type 2 matting should be placed on slopes 1.5H:1V or flatter or in channels where the calculated
- design shear stress is 6.0 lb/ft2 or less and the design flow velocity is up to 15 fps. Type 3 TRMs are a strong three-dimensional stable net structure providing sufficient thickness, strength, and void space to capture and retain soil and allow for the development of root growth and vegetation within the matrix. Matting of this type should be placed on slopes 1H:1V or flatter or in channels where the calculated design shear stress is 8.0 lb/ft2 or less and the design flow velocity is
- Type 4 (High Survivability) TRMs are specially designed geosynthetics for erosion control applications on steep slopes and vegetated waterways.
- All components of Type 4 TRMs should be 100% synthetic and resistant to biological, chemical, and ultraviolet degradation.
- Matting of this type should be placed on slopes 1H:1V or greater or in channels where the calculated design shear stress is <u>up to 12 lb/ft2</u> and the design flow velocity is <u>up to 25 fps</u>.
- This category is used when field conditions exist with high loading and/or high survivability requirements such as maintenance, structural backfills protecting critical structures, utility cuts, potential traffic areas, abrasion, higher factors of safety and/or general durability concerns.

July 31, 2005

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South Carolina DHEC Storm Water Management BMP Handbook

Turf Reinforcement Mats

All primary TRM matrix materials are defined as long-term, non-degradable materials designed to reduce soil erosion and assist in the growth, establishment, and protection of vegetation for a period of time exceeding 5 years. The major structural components of Type 1 and Type 2 TRMs are 100% synthetic and resistant to biological, chemical, and ultraviolet degradation. A degradable fiber matrix may be included to provide immediate coverage for bare soil. All components of Type 3 and Type 4 TRMs are 100% synthetic and resistant to biological, chemical, and ultraviolet degradation.

Grade and compact areas to be protected with TRMs as indicated on the plans.

Remove large rocks, soil clods, vegetation, and other sharp objects that could keep the TRM from intimate contact with subgrade.

Prepare seedbed by loosening 2 to 3 inches of soil above final grade.

The proper installation of TRMs is different for each product, therefore the recommended installation procedure from the specific manufacturer should be followed.

When requested, a Manufacturer's Representative may be required to be on-site to oversee and approve the initial installation of the TRM. When requested, a letter from the Manufacturer approving the contractor installation may be required.

Inspection and Maintenance

- Check areas protected by TRMs for dislocation or failure every 7 calendar days and within 24-hours after each storm that produces ½-inch or more of rain. Conduct regular inspections until grasses are firmly established.
- Adhere to the pinning or stapling pattern as shown on the Manufacturer's installation sheet. If there is evidence that the TRM is not securely fastened to the soil, install extra pins or staples to inhibit the TRM from becoming dislodged.
- If washout or breakage occurs, repair all damaged areas immediately by restoring the soil on slopes or channels to its finished grade, re-apply fertilizer and seed, and replacing the appropriate TRM material as needed.

TRM Channel Design Criteria

When designing a permanent conveyance with a grassed or vegetative lining, the design should address the bare condition prior to vegetation being established. A geotextile lining may be applied to protect the conveyance during this period. It is important to use both the tractive force and the permissible velocity methods to determine the level of protection that is required.

The design of TRMs is based on the anticipated shear stresses and maximum flow velocities the fabric will encounter. Once the design shear stresses and maximum flow velocities are known, a corresponding TRM that meets the conditions may be selected from the SCDOT approved products list.

July 31, 2005

South Carolina DHEC Storm Water Management BMP Handbook

TURF REINFORCEMENT DETAIL



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EROSION AND SEDIMENT
CONTROL DETAILS

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_	DATE 02/18/2020 DATE 02/18/202	20 SCALE N.T.S.	SHEET 3 OF 4
	DWG. NO.		REV.
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