FILTREXX SWPPP Cut Sheet Last Updated: 7-1-07 Section 1: Erosion and Sediment Control - Construction Activities 1.1 Filtrexx SiltSoxx[™] Sediment & Perimeter Control Technology PURPOSE & DESCRIPTION

Filtrexx SiltSoxxTM are a three-dimensional tubular sediment control and storm water runoff filtration device typically used for perimeter control of sediment and other soluble pollutants (such as phosphorus and petroleum hydrocarbons), on and around construction activities. APPLICATION Filtrexx SiltSoxxTM are to be installed down slope of any disturbed area requiring erosion and sediment control and filtration of soluble pollutants from

runoff. SiltSoxxTM are effective when installed perpendicular to sheet or low concentrated flow. Acceptable applications include: Site perimeters

- Above and below disturbed areas subject to sheet runoff, interrill and rill erosion Above and below exposed and erodable slopes
- Around area drains or inlets located in a 'sump'
- On compacted soils where trenching of silt fence is difficult or impossible • Around sensitive trees where trenching of silt fence is not beneficial for tree survival or may unnecessarily disturb established vegetation.
- On frozen ground where trenching of silt fence is impossible. On paved surfaces where trenching of silt fence is impossible.

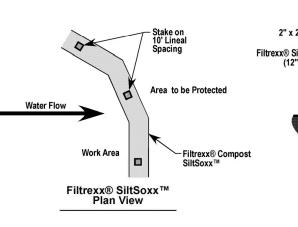
INSTALLATION

1. SiltSoxxTM used for perimeter control of sediment and soluble pollutants in storm runoff shall meet Filtrexx SoxxTM Material Specifications and use Certified Filtrexx FilterMedia[™]. 2. Contractor is required to be Filtrexx Certified™ as determined by Filtrexx International, LLC (440-926-2607 or visit website at www.filtrexx.com).

- Certification shall be considered current if appropriate identification is shown during time of bid or at time of application (current listing can be found at www.filtrexx.com). Look for the Filtrexx Certified[™] Seal.
- SiltSoxx[™] will be placed at locations indicated on plans as directed by the Engineer.
- 4. SiltSoxxTM should be installed parallel to the base of the slope or other disturbed area. In extreme conditions (i.e., 2:1 slopes), a second SiltSoxxTM shall be constructed at the top of the slope. 5. Stakes shall be installed through the middle of the SiltSoxxTM on 10 ft (3m) centers, using 2 in (50mm) by 2 in (50mm) by 3 ft (1m) wooden stakes. In the event staking is not possible, i.e., when SiltSoxxTM are used on pavement, heavy concrete blocks shall be used behind the SiltSoxxTM to help
- stabilize during rainfall/runoff events. Staking depth for sand and silt loam soils shall be 12 in (300mm), and 8 in (200mm) for clay soils. Loose compost may be backfilled along the upslope side of the SiltSoxxTM, filling the seam between the soil surface and the device, improving filtration
- and sediment retention. 8. If the SiltSoxxTM is to be left as a permanent filter or part of the natural landscape, it may be seeded at time of installation for establishment of
- permanent vegetation. The Engineer will specify seed requirement 9. Filtrexx SiltSoxx[™] are not to be used in perennial, ephemeral, or intermittent streams

See design drawing schematic for correct Filtrexx SiltSoxx[™] installation (Figure 1.1). INSPECTION and MAINTENANCE

- Routine inspection should be conducted within 24 hrs of a runoff event or as designated by the regulating authority. SiltSoxxTM should be regularly inspected to make sure they maintain their shape and are producing adequate hydraulic flow-through. If ponding becomes excessive, additional SiltSoxxTM may be required to reduce effective slope length or sediment removal may be necessary. SiltSoxx^{Thd} shall be inspected until area above has been
- permanently stabilized and construction activity has ceased The Contractor shall maintain the SiltSoxx[™] in a functional condition at all times and it shall be routinely inspected.
- If the SiltSoxx[™] has been damaged, it shall be repaired, or replaced if beyond repair.
 The Contractor shall remove sediment at the base of the upslope side of the SiltSoxx[™] when accumulation has reached 1/2 of the effective height of the
- SiltSoxxTM, or as directed by the Engineer. Alternatively, a new SiltSoxxTM can be placed on top of and slightly behind the original one creating more sediment storage capacity without soil disturbance.
- 4. SiltSoxxTM shall be maintained until disturbed area above the device has been permanently stabilized and construction activity has ceased. 5. The FilterMediaTM will be dispersed on site once disturbed area has been permanently stabilized, construction activity has ceased, or as determined by the Engineer.
- 6. For long-term sediment and pollution control applications, SiltSoxxTM can be seeded at the time of installation to create a vegetative filtering system for prolonged and increased filtration of sediment and soluble pollutants (contained vegetative filter strip). The appropriate seed mix shall be determined by the Engineer.



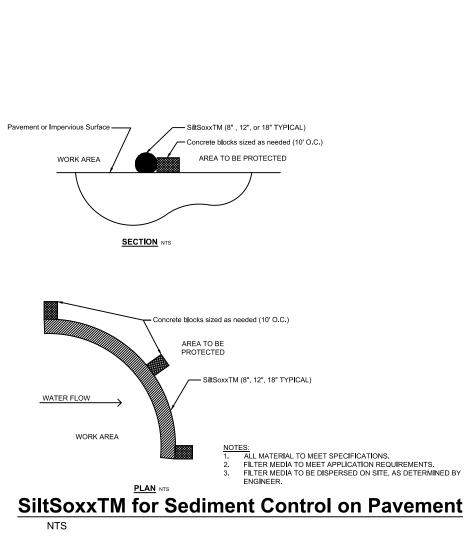
Work Area	Stake on 10 Lineal Spacing Area to be Pro Filtre SittSc	Filtrexx® (12 (12 vtected xx® Compost	2" Wooden Stake	3"-4" Area to	be Protected
Filtrexx® S			Filtrexx®	SiltSoxx™ Section	
			2 SiltSovy™ compost/is	oil/rock/seed fill to meet a	application
			 requirements. SiltSoxx™ depicted is may require larger so 	for minimum slopes. Gre	ater slopes
	Maximum Slop	e Length Above Si	 requirements. SiltSoxx™ depicted is may require larger so Compost material to b 	for minimum slopes. Gre cks per the Engineer. De dispersed on site, as de	ater slopes
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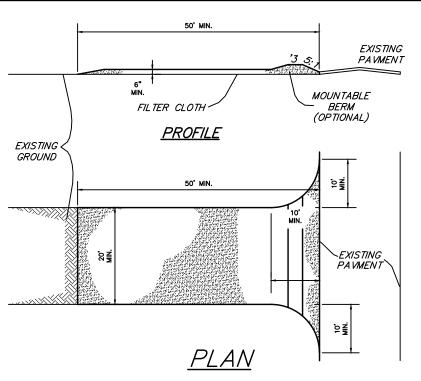
Poseyville, IN 47633

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Te	nsar.	NOF AMI GRE	RTH Eric En	AN			lel-Cynthia ille, India Tel. 800.7	ana Road na 47633 772.2040 867.0247	6" (15cm)
	Ма				nance Specific	ation			5
	Descri		S75	Erosion Co	Index Property	Test Method	Ти	pical	
	Deseri	ption			Thickness	ASTM D6525	0.37 in	AND A DESCRIPTION OF A	
The short-	term single net erosi	ion contro	ol blank	ket shall be a			(9.4 m	10000	
	oduced mat of 100 longevity of up to 1				Resiliency	ECTC Guidelines	78.8%		1
longevity r	may vary depending	upon clin	natic co	onditions, soil,	Water Absorbency	ASTM D1117	426%	0.04.0	<u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
consistent	al location, and eleva thickness with the str	aw evenly	y distrib	outed over the	Mass/Unit Area	ASTM 6475	(407 g		
entire area	of the mat. The blank a lightweight photode	ket shall b	be cove	red on the top	Swell	ECTC Guidelines	15%		4"-6"
having an a	approximate 0.50 x 0.	50 (1.27)	x 1.27 c	m) mesh. The	Smolder Resistance	ECTC Guidelines	Yes		(10-15cm)
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	shall meet Type 2				Elongation – MD	ASTM D6818	(1.94 k 24.4%	1.	
	by the Erosion Cont I Highway Administra						85.2 lb		
713.17	a inginiay Administra			ee occion	Tensile Strength – TD	ASTM D6818	(1.26	100 Lot	
					Elongation – TD	ASTM D6818	26.8%		
See Street	Material	Content			Maximum P	Permissible Shear	Stress		
Matrix	100% Straw Fiber).5 lbs/y		Unvegetated Shear Stre	ess 1.55	lbs/ft ² (7	74 Pa)	
			0.27 kg		Unvegetated Velocity		ft/s (1.52		
Netting	Top side only, lightwe photodegradable	eight (/100 m ²)					
	photoacgradable	a	approx.	weight	Slope D	esign Data: C Fac		and the second	6"
Thread	degradable						Gradients	1000	0 (15cm)
					Slope Length (L)		3:1 - 2:1		
	Standard F 6.67 ft	Roll Sizes 8.0 ft	and the second	16.0 ft	≤ 20 ft (6 m) 20-50 ft	0.029	NA NA	NA	
Width	(2.03 m)	(2.44)	m)	(4.87 m)	S.				
Length	108 ft (32.92 m)	112 ft (34.14		108 ft (32.92 m)	≥ 50 ft (15.2 m)	0.19	NA	NA	
Weight ± 1	40 lbs	50 lbs (22.68		96 lbs (43.54 kg)		Ì			
	(18.14 kg) 80 yd ²	100 yc		(43.54 kg) 192 yd ²	Roughnes	ss Coefficients- U	nveg.		CRITICAL POIN
Area	(66.9 m ²)	(83.61		(165.5 m ²)	Flow Depth	Mann	ing's n		A. Overlaps a B. Projected
	Bench Scale Tes	sting (NT			≤ 0.50 ft (0.15 m)	0.055			C. Channel E
Test Meth				sults	0.50 - 2.0 ft	0.055	- 0.021		
ECTC 2 Rainfall	50 mm (2 in)/hr-3 100mm (4 in)/hr- 150 mm (6 in)/hr-	30 min		= 8.80 = 8.16 = 7.81	≥ 2.0 ft (0.60 m)	0.021			
ECTC 3 Shear Res.	Shear at 0.50 inch loss	n soil	1.80 lb	os/ft ²	Proud Participant of		ALL CALL		
ECTC 4 Germinatio	Top Soil, Fescue, 2 n incubation		of biom		QDOR Mede in USA		RG7TC		Drawing Not To Scale
	Ratio = Soil Loss Bare Soi								
* Bench Sca ** Soil Loss Tensar Interr Any other wa	ale tests should not be use Ratio = Soil Loss Bare Soi national Corporation warra rranty including merchant	I/Soil Loss ants that at tability and	on purpos with REC the time fitness fo	ses P of delivery the prop or a particular purpo	duct furnished hereunder shall o see, are hereby executed. If the oduct at no cost to the custome	conform to the specific	et specificat		Tensar North Merican GREEN* 5401 St. Wendel - Cynthiana Rd. PH: 800-722



STABILIZED CONSTRUCTION ENTRANCE



Storm Water Pollution Prevention Plan 12"(30cm) CHANNEL A. PURPOSE: **INSTALLATION** "(10cm) DETAIL required to meet: - Prevent erosion where construction activities shall occur. 4"(10cm) 15cm) 1. Prepare soil before installing rolled erosion control products (RECPs), - Prevent pollutants from mixing with storm water. including any necessary application of lime, fertilizer, and seed. 7 2. Begin at the top of the channel by before they can affect the receiving waters. anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with All regulations of Missouri Department of Natural Resources are approximately 12"(30cm) of RECPs (15cm) extended beyond the up-slope portion 2"-5" of the trench. Use ShoreMax mat at the - All regulations of the Environmental Protection Agency are met. (5-12.5cm) channel/culvert outlet as supplemental - All regulations of the local municipality are met. scour protection as needed. Anchor the RECPs with a row of staples/stakes B. PROJECT DESCRIPTION: approximately 12"(30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply County, Missouri. This project disturbs approximately 1.60 acres. seed to the compacted soil and fold the All and a for a series of the 6 remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil erosion protection measures listed below: with a row of staples/stakes spaced approximately 12" apart across the width of the RECPs. 3. Roll center RECPs in direction of water flow in bottom of channel. RECPs will Engineering Company, Inc. 474747474 unroll with appropriate side against the soil surface. All RECPs must be 2. Revegetation: The site will consist of varying ground slopes, upon TR securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern erosion. 4. Place consecutive RECPs end-over-end (Shingle style) with a 4"-6" overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs Table 60-5 Soil Stabilization Sc 5. Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes approximately 12"(30cm) Soil Disturbance Activity or Condition apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the Soil disturbance has ceased in areas greater than NOTES: trench after stapling. Seams square feet. *Horizontal staple spacing should be Adjacent RECPs must be overlapped After construction of dikes, swales, diversions, and er Line approximately 2"-5" (5-12.5cm) altered if necessary to allow staples to concentrated flow areas m/Side Slope Vertices (Depending on RECPs type) and secure the critical points along the channel stapled. When slopes are steeper than 3 horizontal to1 vertication surface. 7. In high flow channel applications a When slopes are greater than 3% and longer than 15 staple check slot is recommended at 30 Perimeter controls around soil stockpiles. **In loose soil conditions, the use of staple to 40 foot (9 -12m) intervals. Use a Stabilization or covering of inactive stockpiles. or stake lengths greater than 6"(15cm) may double row of staples staggered When land disturbance is completed, permane be necessary to properly secure the 4"(10cm) apart and 4"(10cm) on center stabilization must be installed. RECP's. over entire width of the channel. 3. The terminal end of the RECPs must be anchored with a row of staples/stakes **Disclaimer:** approximately 12" (30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. The information presented herein is general design information only. For specific applications, Backfill and compact the trench after consult an independent professional for further design guidance. stapling. Drawn on: 3-16-11

VEGETATION ESTABLISHMENT For Urban Development Sites APPENDIX A
_SEEDING_RATES:
PERMANENT: Tall Fescue - 30 lbs./ac. Smooth Brome - 20 lbs./ac. Combined - Fescue @ 15 lbs./ac. AND Brome @ 10 lbs./ac. <u>TEMPORARY:</u> Wheat or Rye - 150 lbs./ac. (3.5 lbs. per 1,000 s.f.) Oats - 120 lbs./ac. (2.75 lbs. per 1,000 s.f)
<u>SEEDING PERIODS:</u> Fescue or Brome — March 1 to June 1 August 1 to October 1 Wheat or Rye — March 15 to November 1 Oats — March 15 to September 15 <u>MULCH RATES:</u> 100 lbs. per 1,000 sq. ft. (4,356 lbs. per ac.)
FERTILIZER RATES: Nitrogen 30 lbs./ac. Phosphate 30 lbs./ac. Potassium 30 lbs./ac. Lime 600 lbs./ac. ENM*
* ENM = effective neutralizing material as per State evaluation of quarried rock.

- CONSTRUCTION SPECIFICATIONS
- 1. Stone Size Use 2" stone, or reclaimed or recycled concrete equivalent.
- 2. Length As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply). 3. Thickness — Not less than six (6) inches.
- 4. Width Twenty (20) foot minimum, but not less than the full width at points where ingress or egress occurs.
- 5. Filter Cloth Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot. 6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped
- across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted. 7. Maintenance — The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately. 8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an
- approved sediment trapping device. 9. Periodic inspection and needed maintenance shall be provided after each rain.

The purpose of the Storm Water Pollution Prevention Plan (SWPPP) is to inform the Developer/Contractor of the following objectives they are

- Prevent pollutants from being discharged by trapping them on-site,

The project is located in the Belleau Creek watershed in St. Charles The project activities consist of the construction of a new building, parking lot and entrance. The site will be protected by the various

1. Siltation Control: The entire perimeter of the project that allows storm water to exit will have silt siltation control installed. Details of these devices are depicted on the detail plans prepared by Bax

completion of the grading activities the slope prone to erosion will be seeded and strawed to stabilize the slope and prevent

	Required Stabilization Time
n 2,000	14 days
d other	5 days
al	7 days
0 feet.	14 days
	End of workday
	30 days
nt soil	30 days

C. MAINTENANCE AND INSPECTION:

<u>Regular Maintenance:</u> Weekly inspections of the project will include: (a) The repair of any sediment (silt) fence and/or staked straw bale barriers damaged or out of place; (b) The removal of any accumulated trash and/or debris; and (c) The remove of any externally deposited waste materials.

Periodic Inspections: Following each rain of more than 0.25 inch in 24 hours, the site will be inspected, and any necessary maintenance will be provided for a period of one year following the completion of the above remediation measures. Summaries of the maintenance and the inspections will be maintained and shall be kept available from the owner. An inspection report shall be filed and kept on site for every inspection. The report shall detail the findings of the inspection and if any action was required. The inspection form needs to include, name of the site, name of the inspector, permit number, date of inspection, major observations and actions taken to correct problems and the signature of the inspector. The inspection reports need to be kept on file by the permittee for three years after the project is completed.

The field inspections will be conducted in a systematic manner to minimize the possibility of any significant feature being overlooked. A detailed checklist will be developed and followed for the examination. Particular attention will be given to detecting evidence of erosion, slope instability, undue settlement, displacement, and tilting. Photographs and drawings will be used freely to record conditions in order to minimize descriptions. The field inspection will include appropriate features and items, including potential hazards to human life or property.

The condition of the slopes and vegetative cover will be evaluated and examined for erosion.

Measures will be taken to promote the growth of vegetation and repair of damage caused by erosion and sedimentation. The inspection will also provide recommendations for measures that need to be undertaken immediately, based on the experience and judgment of the inspector. Necessary follow up inspections will be made as necessary to verify that any maintenance, alteration, or repair measures are accomplished by methods acceptable by standard engineering practice.

SPILL AND SITE POLLUTION

Should an accidental spill occur refer to material safety data sheets. Any spills of hazardous materials in quantities in excess of reportable quantities as defined by EPA or the state agency regulations, shall be immediately reported to the EPA National Response Center (800-424-8802) and Missouri Department of Natural Resources (573-634-2436). Reportable spills for petroleum products is greater than 50 gallons. All other reportable hazardous materials and their quantities may be found on the website at http://www.dnr.mo.gov an the local number is 573-840-9750. Federal law requires the responsible party to report any release of oil if it reaches or threatens a sewer, lake, creek, stream, river, aroundwater, wetlands, or area such as a road ditch that drains into the above. An emergency spill kit is required to be onsite for all potential spills.

