



South Carolina Department of Transportation



**EROSION PREVENTION AND
SEDIMENT CONTROL
QUICK REFERENCE**

OCTOBER 2019



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2013 SCDOT CONSTRUCTION GENERAL PERMIT

(PERMIT NO. SCR160000)

https://www.scdot.org/business/pdf/stormwater/General_Permit_Storwater_Discharge.pdf



South Carolina

NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION CONSTRUCTION ACTIVITIES

In compliance with the provisions of the SC Pollution Control Act (S.C. Code Sections 48-1-10 et seq., 1976) and with the provisions of the Clean Water Act, 33 U.S.C. §1251 et. seq., (hereafter CWA or the Act), as amended by the Water Quality Act of 1987, P.L. 100-4, Operators of construction activities that are described in Section 1.3 of this National Pollutant Discharge Elimination System (NPDES) Permit, except for those activities excluded from authorization of discharge in Section 1.3.C of this Permit, are authorized to discharge pollutants to Surface Waters of the State in accordance with the conditions and requirements set forth herein. Permit coverage is required from the "commencement of construction activities" until "final stabilization" as defined in Appendix A.

Ann R. Clark

Ann R. Clark, Director
Stormwater, Construction, Agricultural, and Dams Permitting Division
Bureau of Water

Permit No.: SCR160000 Issued: October 15, 2012
Effective: January 1, 2013 Expires: December 31, 2017

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SCDOT REFERENCES

2007 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION

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- The 2007 Standard Specifications for Highway Construction are available at the SCDOT Publications office in Room G-19 in the SCDOT Headquarters Building, 955 Park Street, Columbia, SC.
- The price of the Standard Specifications for Highway Construction Manual \$20.00 per copy plus the cost of shipping. Orders can be submitted by phone at (803) 737-4533 or by email to PlanStorage@scdot.org
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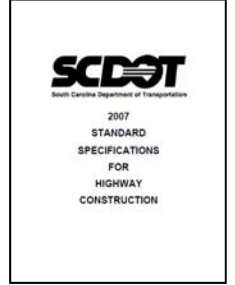


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SCDOT STANDARD DRAWINGS

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SCDOT REFERENCES

SUPPLEMENTAL TECHNICAL SPECIFICATIONS

<https://www.scdot.org/business/road-technical-specs.aspx>

BMP	Spec. No. (Rev. Date)
SEEDING	SC-M-810-4 (07/17)
SEDIMENT TUBES	SC-M-815-1 (03/08)
SILT FENCE SYSTEMS	SC-M-815-2 (07/18)
COMPOST	SC-M-815-3 (04/11)
INLET STRUCTURE FILTERS	SC-M-815-8 (07/17)
ROLLED EROSION CONTROL PRODUCTS	SC-M-815-9 (07/17)
STABILIZED CONSTRUCTION ENTRANCE	SC-M-815-10 (07/18)
HYDRAULIC EROSION CONTROL PRODUCTS	SC-M-815-11 (04/11)
SEDIMENT TUBES FOR DITCH CHECKS	SC-M-815-12 (04/11)
STORMWATER MANUFACTURED TREATMENT DEVICES (MTDs)	SC-M-815-13 (07/15)
DEWATERING BAGS	SC-M-815-15 (11/11)
PERIMETER CONTROL	SC-M-815-17 (07/18)
FLOATING SKIMMER	SC-M-815-14 (01/18)
POROUS BAFFLES	SC-M-815-16 (08/13)
HYDRAULIC BIOTIC SOIL AMENDMENTS (HBSAs)	SC-M-815-18 (07/17)
ENHANCED STACKED DITCH CHECKS	SC-M-815-19 (07/17)

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SEDIMENT BASIN



Sediment Basin information can be found in the SCDOT Stormwater Quality Design Manual in Section 3.2.2.2.

Design information on Surface Outlet and Baffle Sediment Basins can be found in Appendix A of the Stormwater Quality Design Manual. The design criteria is determined using the charts or graphs on SCDOT Standard Drawings 815-305-03, 815-305-04, and 815-305-05.

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STORMWATER QUALITY DESIGN MANUAL

https://www.scdot.org/business/pdf/stormwater/SCDOT_SWQDM.pdf



POLLUTION PREVENTION PLAN CHECKLIST

https://www.scdot.org/business/pdf/stormwater/stormwater_checklist.pdf



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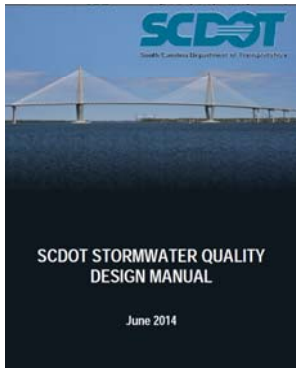
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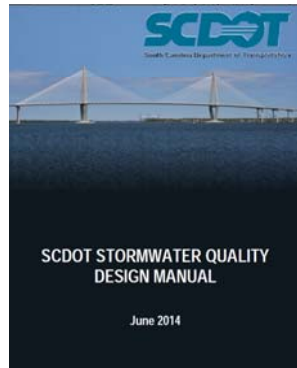
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GRASS REFERENCES

TEMPORARY VS. PERMANENT GRASSING

TEMPORARY COVER:

- Where land disturbing activities have **temporarily ceased and will not resume for a period exceeding 14 days**, initiate temporary cover by seeding or mulch **within 7 days**.
- Initiate temporary cover by seeding **within 45 days** if the Project will not be worked for a period **longer than 60 days**.
- Summary table for temporary cover of all unstabilized areas:

Days	Action Required
14	Maximum allowable time for unstabilized ceased land disturbing activities.
21	Must have initiated temporary cover by mulch or seeding.
45	If initial temporary cover was by mulch only, must initiate temporary cover by seeding.
60	Temporary cover by seeding application complete.

PERMANENT COVER:

- Where land disturbing activities have **permanently ceased and will not resume for a period exceeding 14 days**, initiate permanent cover with seeding **within 7 days**.

PERMANENT GRASSING FOR NON PERMITTED RESURFACING PROJECTS:

- Projects consisting of improving shoulders with a width < 6 feet due to backfill from resurfacing or upgrading deficient shoulders. No NOI required.
- Require application of HECF Type 3 with minimum application rate of 2,000 pounds per acre.
- Soil samples are not required, but may be done.

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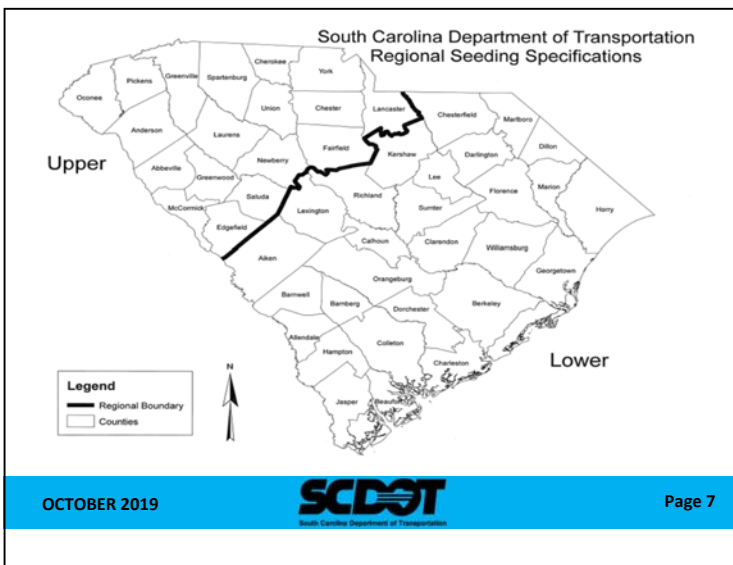
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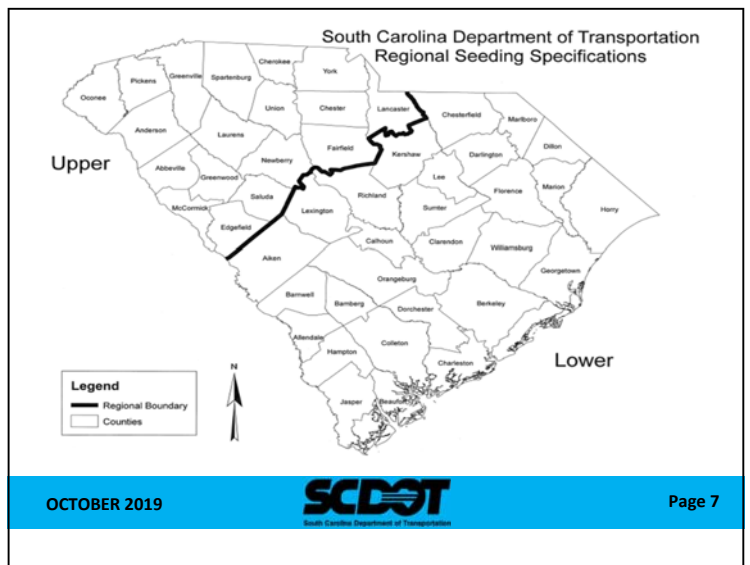
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PERENNIAL SEED TYPE	PLANTING DATES	RATE (LBS/ACRE)
Carpet Grass/Centipedegrass Combo (Turf Type)	March—August	15
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Bermuda hulled (Turf Type)	March—August	50
Bahiagrass (Turf Type)	March—August	30
Tall Fescue (Turf Type-Upstate Only)	September—April	75
Weeping Love Grass	January—December	10
Sericea Lespedeza (Unscarified Seed)	January—December	80
White Clover	Feb.—April & Aug.—Nov.	5
ANNUAL SEED TYPE	PLANTING DATES	TEMPORARY COVER RATE (LBS/ACRE)
Crimson Clover	August—March	20
Browntop Millet	March—August	40
Rye Grain	August—April	110
Hairy Vetch	September—April	50



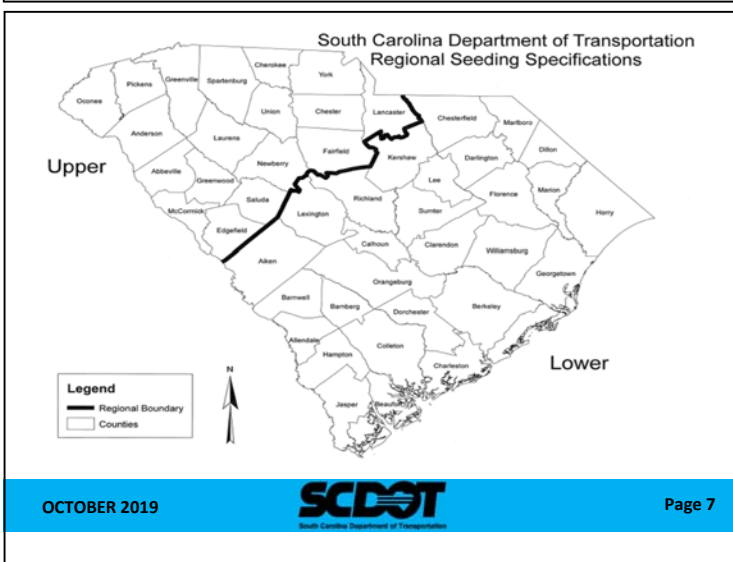
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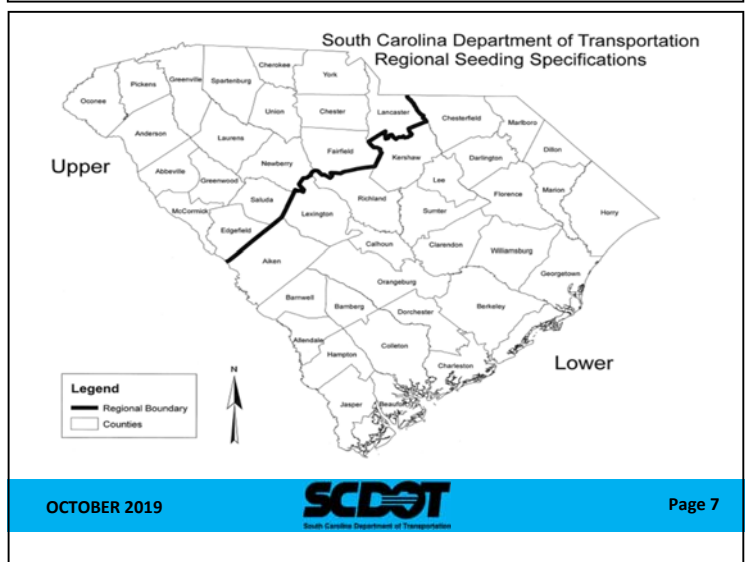
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MOST COMMONLY USED GRASS TYPES

CENTIPEDE



Centipede Seed

BERMUDA



Bermuda Seed

BAHIA



Bahia Seed



Centipede Plant



Bermuda Plant



Bahia Plant

TALL FESCUE



Tall Fescue Seed

CARPET GRASS



Carpet Grass Seed

WEEPING LOVE GRASS



Weeping Love Grass Seed



Tall Fescue Plant



Carpet Grass Plant



Weeping Love Grass Plant

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BAHIA



Bahia Seed



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Bermuda Plant



Bahia Plant

TALL FESCUE



Tall Fescue Seed

CARPET GRASS



Carpet Grass Seed

WEEPING LOVE GRASS



Weeping Love Grass Seed



Tall Fescue Plant



Carpet Grass Plant



Weeping Love Grass Plant

GRASS REFERENCES

MOST COMMONLY USED GRASS TYPES

CENTIPEDE



Centipede Seed

BERMUDA



Bermuda Seed

BAHIA



Bahia Seed



Centipede Plant



Bermuda Plant



Bahia Plant

TALL FESCUE



Tall Fescue Seed

CARPET GRASS



Carpet Grass Seed

WEEPING LOVE GRASS



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Tall Fescue Plant



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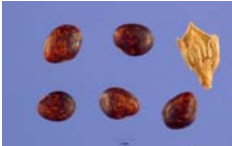


Weeping Love Grass Plant

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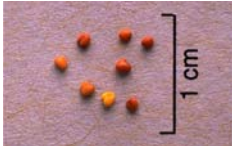
MOST COMMONLY USED GRASS TYPES (CONTINUED)

SERICEA LESPEDEZA



Sericea Lespedeza Seed

WHITE CLOVER



White Clover Seed

CRIMSON CLOVER



Crimson Clover Seed



Sericea Lespedeza Plant



White Clover Plant



Crimson Clover Plant

BROWNTOP MILLET



Browntop Millet Seed

RYE GRAIN



Rye Grain Seed

HAIRY VETCH



Hairy Vetch Seed



Browntop Millet Plant



Rye Grain Plant

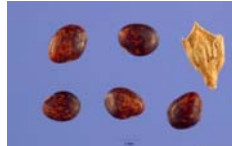


Hairy Vetch Plant

GRASS REFERENCES

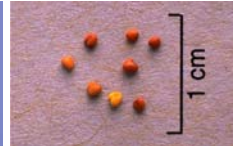
MOST COMMONLY USED GRASS TYPES (CONTINUED)

SERICEA LESPEDEZA



Sericea Lespedeza Seed

WHITE CLOVER



White Clover Seed

CRIMSON CLOVER



Crimson Clover Seed



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Browntop Millet Seed

RYE GRAIN



Rye Grain Seed

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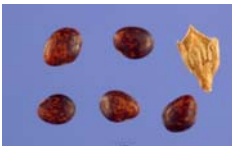


Hairy Vetch Plant

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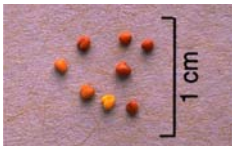
MOST COMMONLY USED GRASS TYPES (CONTINUED)

SERICEA LESPEDEZA



Sericea Lespedeza Seed

WHITE CLOVER



White Clover Seed

CRIMSON CLOVER



Crimson Clover Seed



Sericea Lespedeza Plant



White Clover Plant



Crimson Clover Plant

BROWNTOP MILLET



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Hairy Vetch Seed



Browntop Millet Plant



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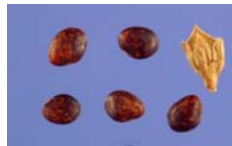


Hairy Vetch Plant

GRASS REFERENCES

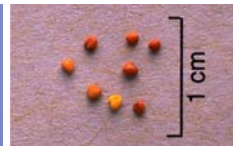
MOST COMMONLY USED GRASS TYPES (CONTINUED)

SERICEA LESPEDEZA



Sericea Lespedeza Seed

WHITE CLOVER



White Clover Seed

CRIMSON CLOVER



Crimson Clover Seed



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White Clover Plant



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GRASS REFERENCES

FERTILIZER RATES (LBS.)

- Used for permanent cover applications.
- Assume a 10-10-10 mix to calculate the estimated bid quantities for the 3 components of granular fertilizer.
- Calculate the quantity by assuming an application rate of 1,000 lb./acre for fertilizer.



For example, if a project has a quantity of 3.5 acres of permanent cover, calculate the estimated fertilizer quantity as follows:

$$\text{FERTILIZER (NITROGEN)} = 0.10 \times 1,000\text{lb/acre} \times 3.5 \text{ acre} = 350 \text{ lb.}$$

$$\text{FERTILIZER (PHOSPHORIC ACID)} = 0.10 \times 1,000\text{lb/acre} \times 3.5 \text{ acre} = 350 \text{ lb.}$$

$$\text{FERTILIZER (POTASH)} = 0.10 \times 1,000\text{lb/acre} \times 3.5 \text{ acre} = 350 \text{ lb.}$$

The first number in the mix is nitrogen (N), the second number is phosphoric acid (P), and the third number is potash (K).

The numbers on the bag are %'s, so 10% is equal to 0.10 in the calculation.

AGRICULTURAL LIME (LBS.)

- Used for permanent cover applications.
- Calculate the quantity by assuming an application rate of 2,000 lb./acre.
- For example, if a project has a quantity of 3.5 acres of permanent cover, calculate the estimated quantity as follows:



$$\text{Agricultural Lime} = 2,000 \text{ lb./acre} \times 3.5 \text{ acre} = 7,000 \text{ lb.}$$

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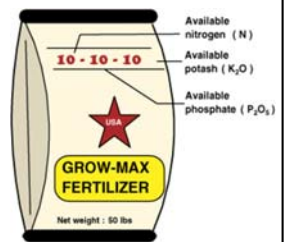


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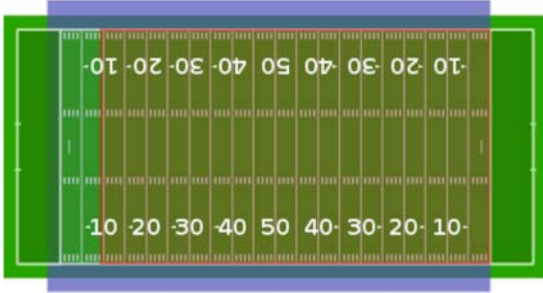
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MULCH REFERENCES

ACREAGE CONVERSIONS



The area of one acre (red) superimposed on a football field (green) and soccer field (blue).

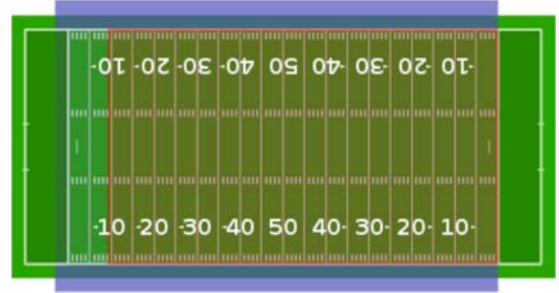
$$1 \text{ Acre} = 43,560 \text{ ft}^2 = 4,840 \text{ yd}^2 = 4,046.87 \text{ m}^2$$

MULCH (HYDROSEEDING) TANK CHART

	Mulch Type	Pounds Per Acre	No. Bags Per Acre	No. Tanks Per Acre
500 Gallon Tank = 5 Bags Per Tank (50 lbs. bags)	1	2000	40	8
	2	2500	50	10
	3	3000	60	12
	4	3500	70	14
1000 Gallon Tank= 10 Bags Per Tank (50 lbs. bags)	1	2000	40	4
	2	2500	50	5
	3	3000	60	6
	4	3500	70	7

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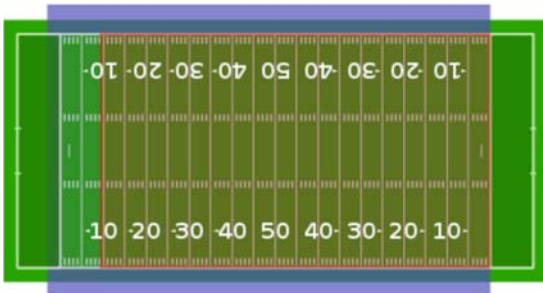
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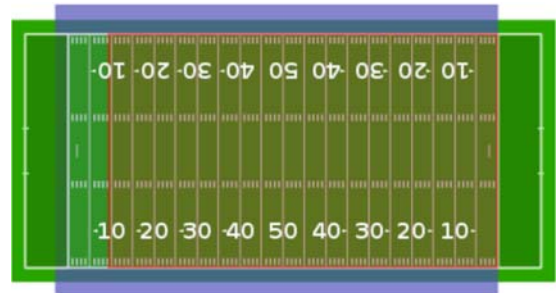
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SCDOT MULCH APPLICATION RATES

Mulch is required for all temporary and permanent cover applications. Depending on the steepness of the slope, select appropriate mulches.

The maximum allowable continuous slope length for HECP and ECB applications is 50 feet. **Slope interruption devices or TRMs are required for slope length longer than 50 feet.** At the discretion of the RCE, use slope interruption devices on slope lengths less than 50 feet when slope erosion is observed.

Mulch	Applicable Slopes	Min. Application Rate (lbs/acre-dry)	No. of 50 Pound Bags Per Acre
HECP Type 1 - Tracer under RECP 	Per RECP	1,000	20
HECP Type 1 	≤ 4:1	2,000	40
HECP Type 2 	4:1 < S ≤ 3:1	2,500	50
HECP Type 3 	3:1 < S ≤ 2:1	3,000	60
HECP Type 4 	2:1 < S ≤ 1:1	3,500	70
	> 1:1	4,000 (temp cover only)	80






When site constraints exceed the acceptable application for mulch, use Rolled Erosion Control Products (RECPs); Erosion Control Blankets (ECB) or Turf Reinforce Matting (TRM) as appropriate per specifications.

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MULCH REFERENCES
APPLICATION TECHNIQUE
Proper Application
Improper Application
MULCH COVERAGE RATE (LBS/ACRE)
3,000 lbs/acre—(4.1mm thickness)
3,500 lbs/acre—(4.8mm thickness)
<small>Pictures courtesy of Profile Products.</small>
OCTOBER 2019  Page 13

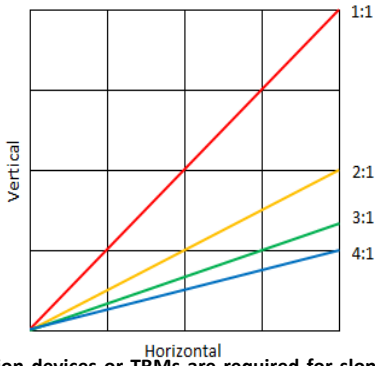
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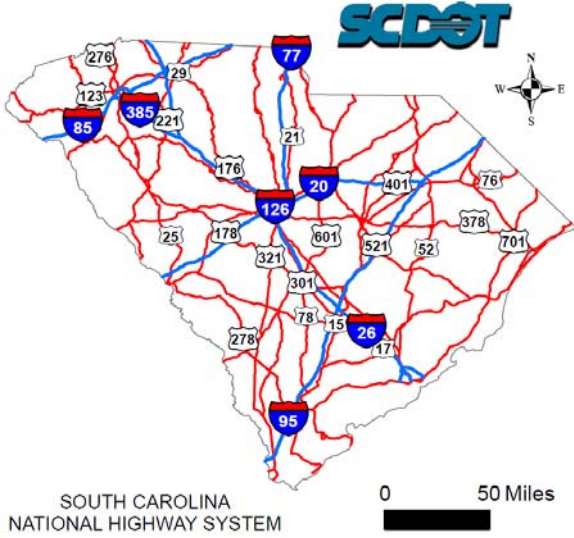
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MULCH REFERENCES & MAPS

Slope Graph

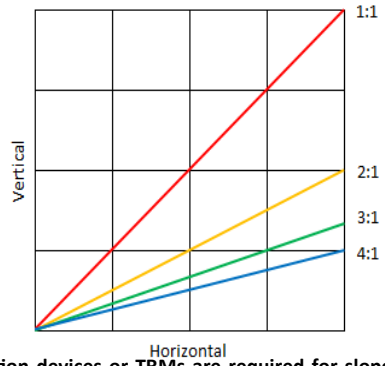


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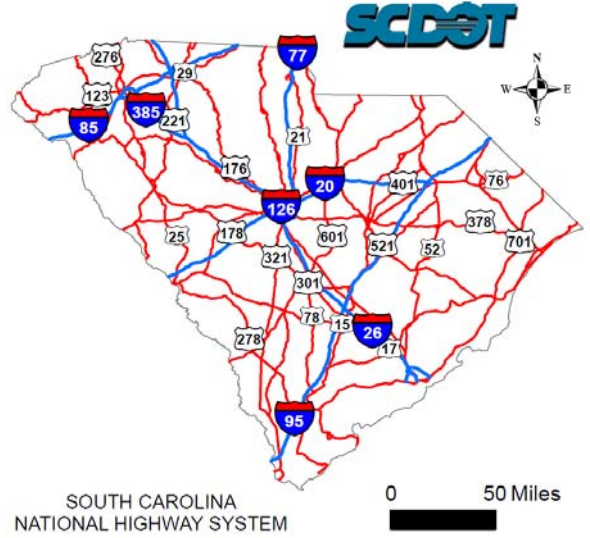


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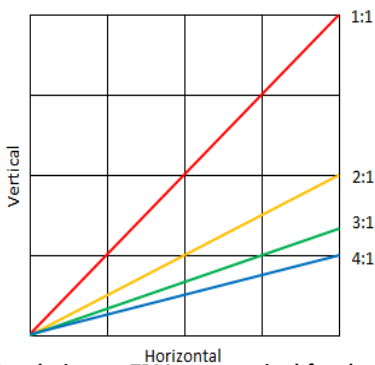


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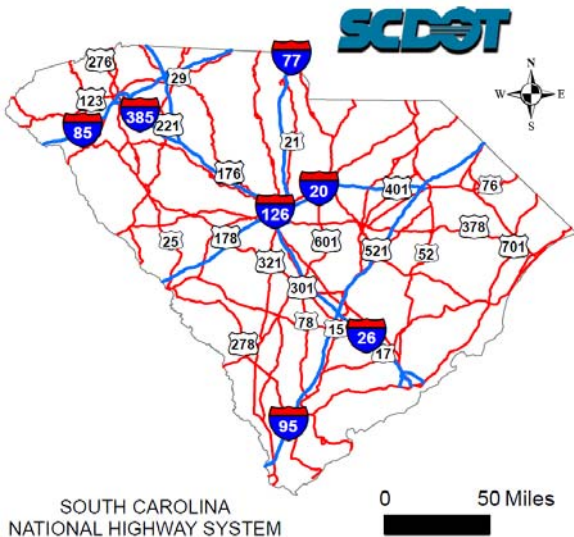


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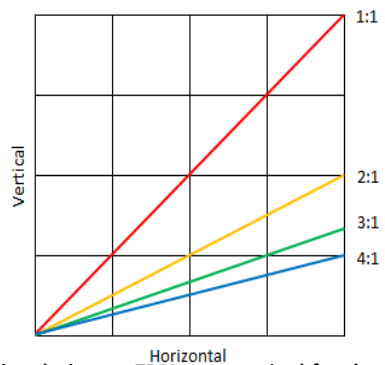


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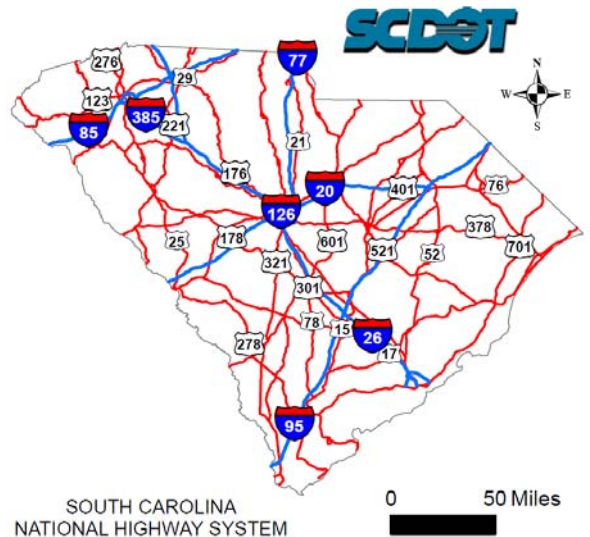


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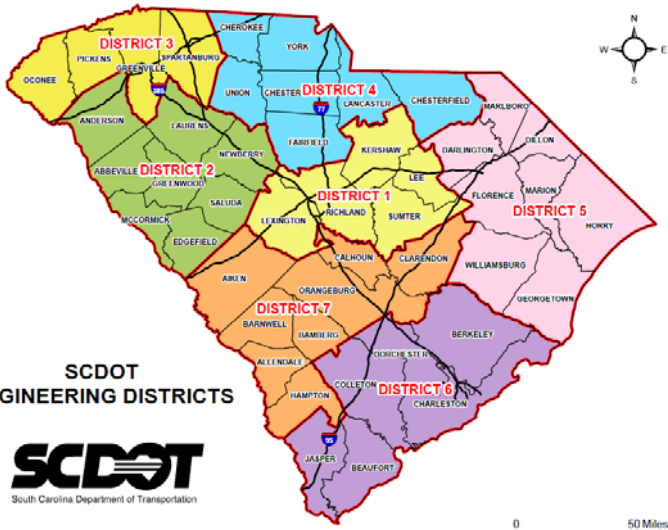
Slope Graph



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NOTES



SCDOT
ENGINEERING DISTRICTS

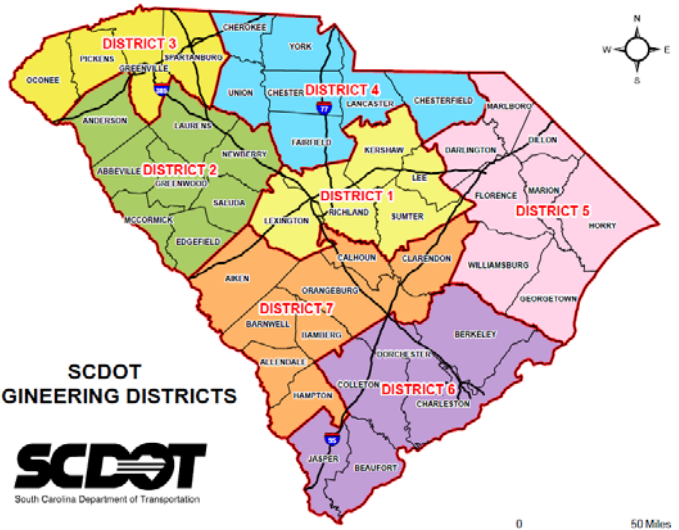


0 50 Miles

DISTRICT	DISTRICT OFFICE PHONE NUMBER
1	803-737-6660
2	864-227-6971
3	864-241-1010
4	803-377-4155
5	843-661-4710
6	843-740-1667
7	803-531-6850



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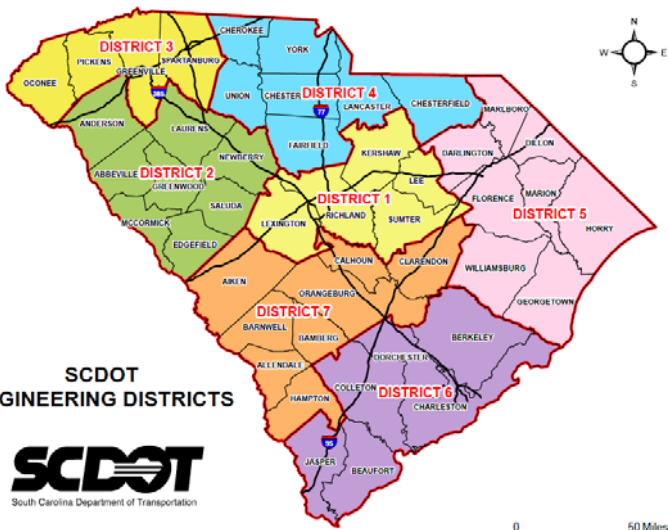


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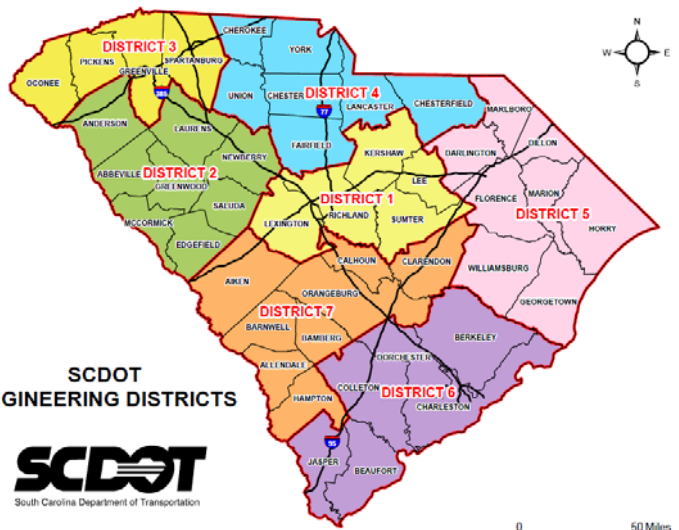


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CONTACT SCDOT

Phone: 855-GO-SCDOT (855-467-2368) toll free
or 803-737-1200

Monday through Friday, 8:30 AM-5:00 PM
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SCDOT STORMWATER HOMEPAGE

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