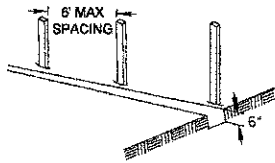


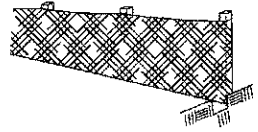
DATE	
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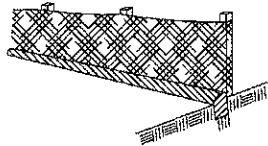
1. SET POSTS AND EXCAVATE OR SLIT-TRENCH A 6-INCH DEEP TRENCH UPSLOPE ALONG THE LINE OF POSTS



2. ATTACH GEOTEXTILE FILTER FABRIC TO EACH POST WITH A MINIMUM OF 3 (THREE) FASTENERS PER POST AND EXTEND FABRIC TO THE BOTTOM OF THE TRENCH

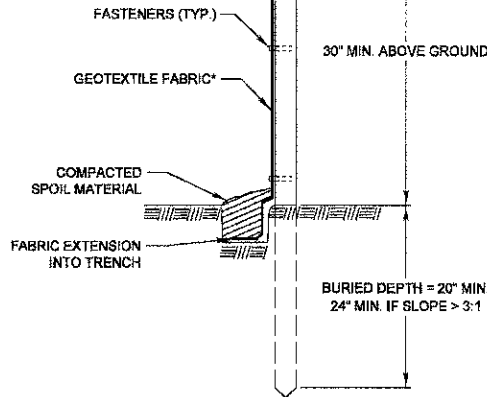


3. BACKFILL AND COMPACT THE EXCAVATED MATERIALS



Requirements	Test Methods	Wire Backed Supported Silt Fence	Unsupported Silt Fence	
Maximum Post Spacing		4 feet	4 feet	6 feet
Grab Strength	ASTM D 4832			
Machine direction		80 lbs	124 lbs	124 lbs
X-Machine direction		80 lbs	100 lbs	100 lbs
Permeability	ASTM D 4491	0.05 sec/ft	0.05 sec/ft	0.05 sec/ft
Apparent Opening Size	ASTM D 4751	0.024 in.	0.024 in.	0.024 in.
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours of exposure		

POSTS - CHOICE OF:
1.2" X 1.2" NOMINAL HARDWOOD POSTS
2.6" X 2.6" NOMINAL NO.2 SOUTHERN PINE OR
U, T, L, OR C-SHAPE STEEL POSTS WITH MIN. WEIGHT 1.33 LBS/FT



* NOTE: OPTIONAL WIRE SUPPORT
- MIN. 30" HEIGHT
- MIN. 14 GAUGE WIRE
- MIN. 6 HORIZ. WIRES
- MIN. 6" VERTICAL SPACING

SCALE 1" = 1'

REVISIONS
ORIG. by LCSMC
Update Text

DATE
4/2/08
7/15/11

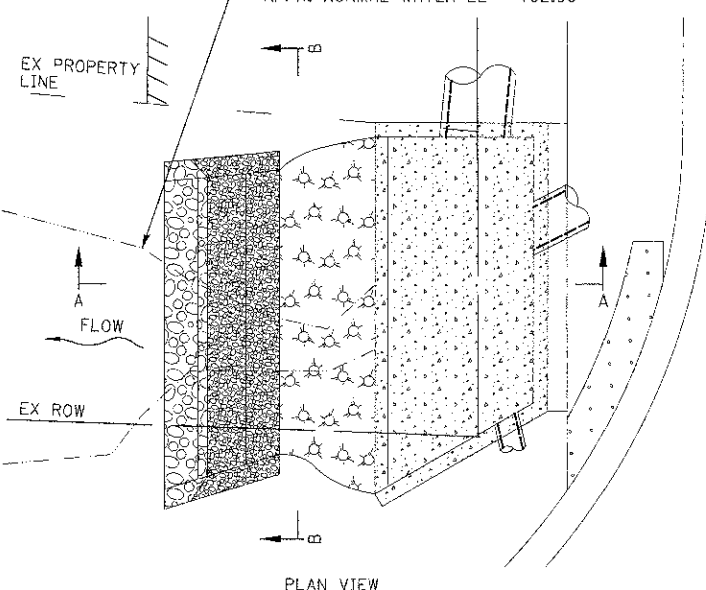
Lake County
Division of Transportation

APPROVED BY: M. G. ZEMAITIS
DATE: JUNE 20, 2008

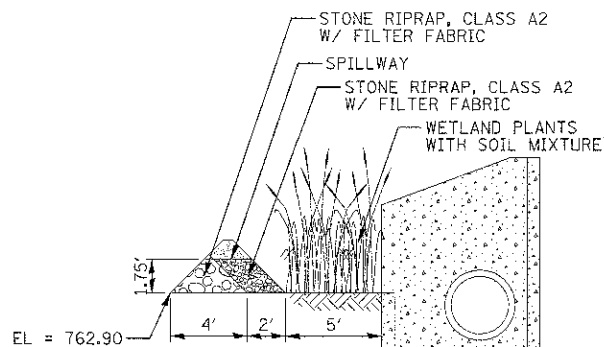
PERIMETER EROSION BARRIER INSTALLATION

LC2051

EX WATER BOUNDARY
APPX. NORMAL WATER EL = 762.90



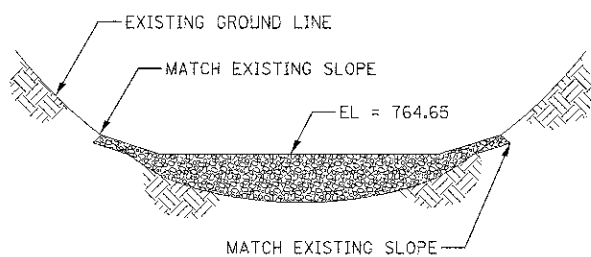
PLAN VIEW



SEE STRUCTURAL SHEETS FOR HEADWALL DETAILS

SECTION A-A

* SOIL MIXTURE BY VOLUME:
15% DOUBLE SHREDDED HARDWOOD MULCH
50% WASHED SHARP SAND - ASTM C-33
30% TOPSOIL
5% PEATMOSS



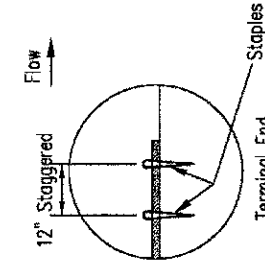
SECTION B-B

DAVE'S CHANNEL
SEDIMENT CONTAINMENT
STRUCTURE/CUTFALL

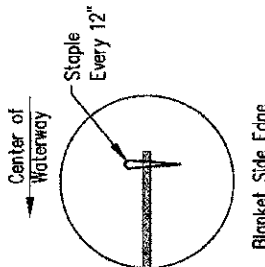
EROSION BLANKET INSTALLATION DETAILS

NRCS
National Resources Conservation Service
IL ENC-61
Erosion No.
Sheet 1 of 1

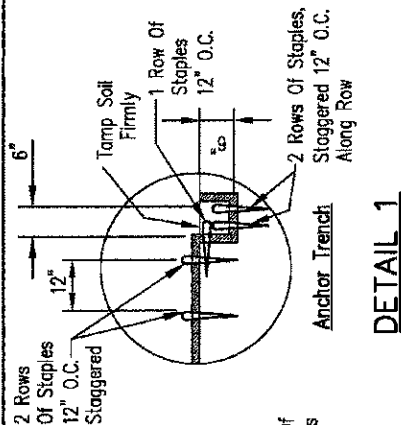
- NOTES:
1. Install erosion control blanket (ECB) over roadway. Waterway Width _____ ft
ECB width _____ ft
length _____ ft
Sta. _____ to _____
 2. The erosion control blanket shall consist of a machine produced mat of curled wood or coconut fibers, shall have an expected material life of a least 12 months, shall be new and unused, shall be furnished in rolls, and shall meet the minimum requirements stated in Table 1 below.
 3. Prepare soil prior to installing erosion control blanket, including seeding, fertilizing, and lime application.
 4. The erosion control blanket shall be placed in firm contact with the soil and not be allowed to bridge over surface irregularities. The blanket shall not be stretched.
 5. Start laying the blankets by rolling center blanket in the direction of flow, centered on the centerline of waterway. There shall not be an overlap of blankets at the center of the waterway.
 6. The erosion control blanket shall be anchored, overlapped, and stapled according to manufacturer's instructions. If no manufacturer's instructions are available, install the blanket as follows:
 - a. Staples shall be "U" shaped, 0.12 in diameter wire or greater (#11 gauge). See Staple Detail for dimensions.
 - b. Bury upstream end of blanket in a trench 6 inch wide by 6 inch deep and stapled in staggered rows across the width as shown in Detail 1.
 - c. For joining ends of rolls, overlap end of upslope blanket a minimum of 6 inches over downslope blanket (shingle style). Use a double row of staggered staples 4 inches apart, as shown in Detail 2.
 - d. Blankets on side slopes shall overlap a minimum 6 inches over the blanket below (shingle style). Staple overlap at 12 inch intervals. See Detail 3.
 - e. The outer edge along sides of the blanket shall be stapled every 12 inches. See Detail 4.
 - f. Staples are to be placed alternately in columns (in the direction of the waterway) 2 feet apart and in rows (across the waterway) 3 feet apart, throughout the area covered by erosion blanket.
 - g. Downstream (terminal) end of blanket shall be stapled with a double row of staggered staples 12 inches apart. See Detail 5.



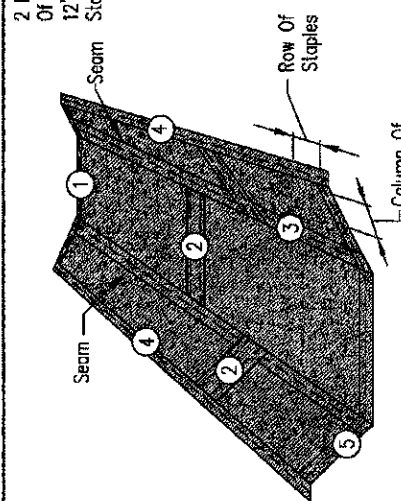
DETAIL 5



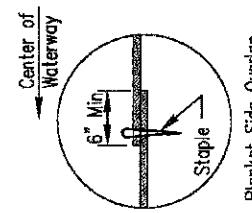
DETAIL 4



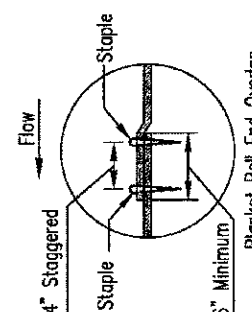
DETAIL 1



DETAIL 2



DETAIL 3



DETAIL 4

TABLE 1. MINIMUM REQUIREMENTS FOR EROSION CONTROL BLANKET

Type of Fiber	Coconut Blanket	Wood Fiber Blanket
Weight, lbs/sq. yd	100% coconut fibers 0.50	100% curled wood fibers 0.63
Fiber Length	N/A	80% of fibers > 6 in.
Fiber Dimensions	N/A	0.021 in. x 0.042 in.
	Optional - Top and bottom of blanket may be covered with a max. 5/8" x 5/8" opening size netting, bound to the mat on max. 1.5' centers.	Optional - Top and bottom of blanket may be covered with a max. 5/8" x 5/8" opening size netting

CIVILTECH

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Itasca, Illinois 60143
Tel: 630.773.3800 Fax: 630.773.3975
www.civiltechinc.com

DESIGNED - PK
DRAWN - JRR
CHECKED - RTM
DATE - 12/17/2012

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.U. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
0187 05-00121-07-WR LAKE 223 89
CONTRACT NO. 63765
FED. ROAD DIST. NO. : ILLINOIS FED. AID PROJECT