

**CONSTRUCTION SPECIFICATIONS:**

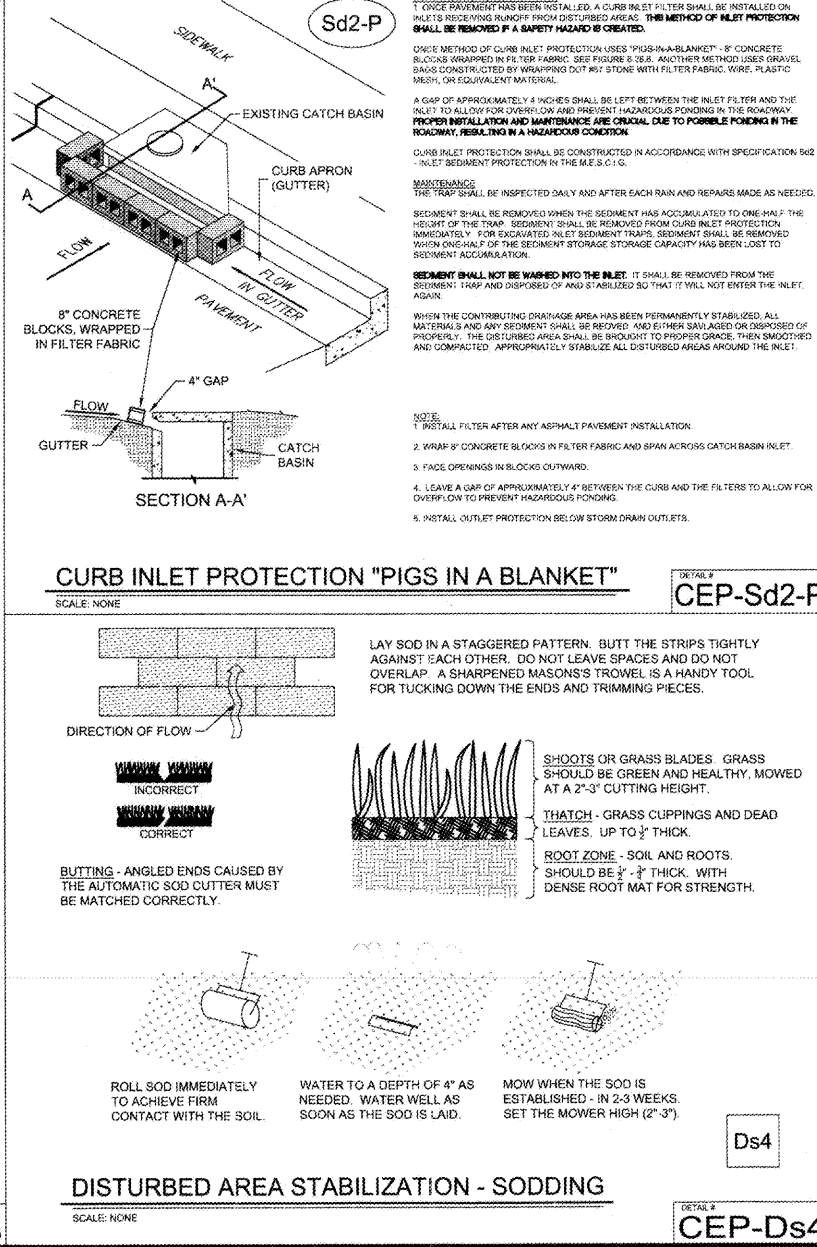
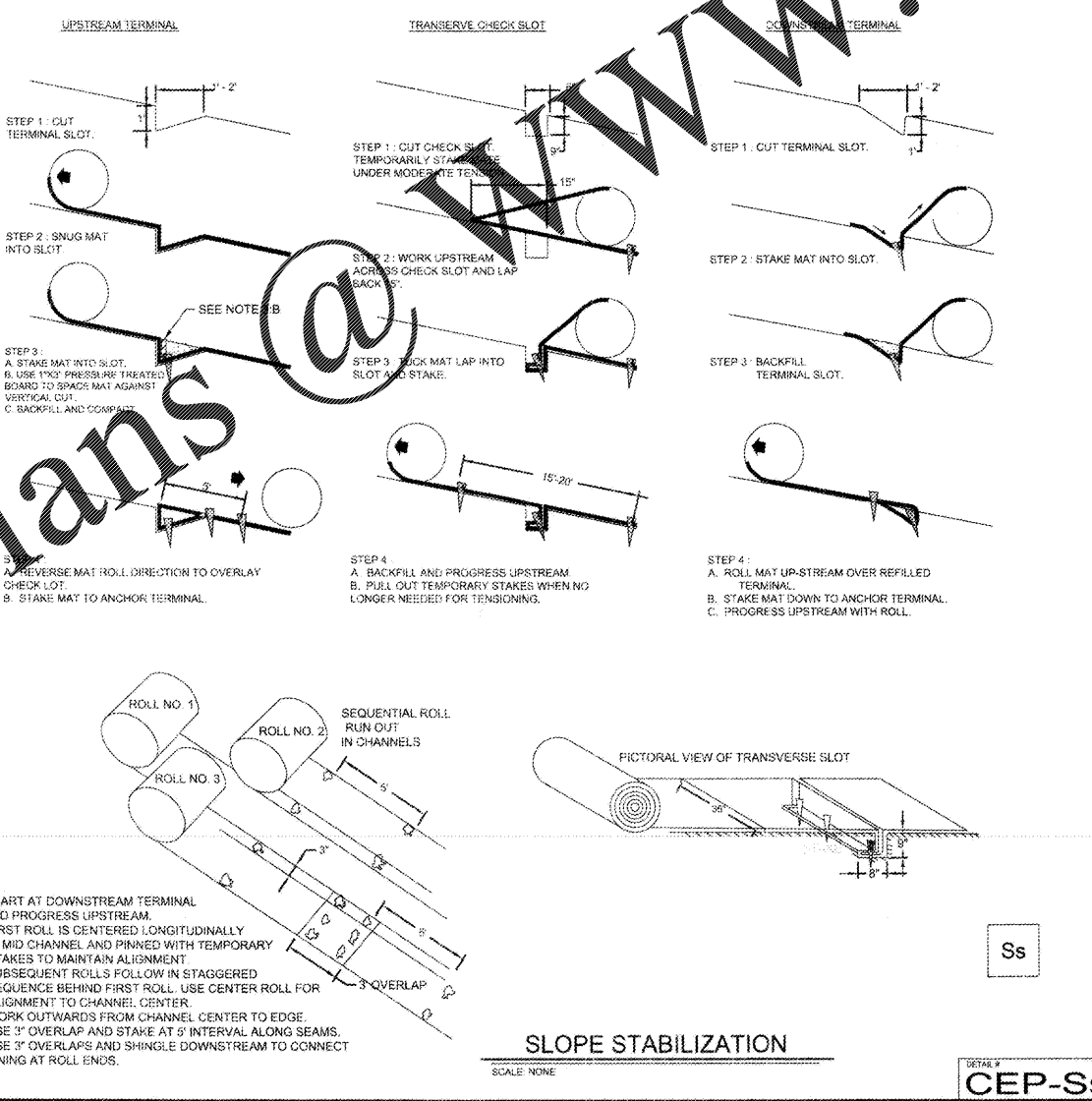
**MATERIALS - HEC-2**  
HYDRAULIC EROSION CONTROL PRODUCTS SHALL BE PREPACKAGED FROM THE MANUFACTURER. FIELD MIXING OF PERFORMANCE ENHANCING ADDITIVES WILL NOT BE ALLOWED. FIBROUS COMPONENTS SHOULD BE ALL NATURAL OR BIODEGRADABLE. PRODUCTS SHALL BE DETERMINED TO BE NON-TOXIC IN ACCORDANCE WITH EPA 821-R-97-012.

**MATERIALS - HEC-3**  
PRODUCTS SHALL BE DETERMINED TO BE NON-TOXIC IN ACCORDANCE WITH EPA 821-R-97-012. AT MINIMUM, THE PLASTIC OR BIODEGRADABLE NETTING SHALL BE STITCHED TO THE FIBROUS MATRIX TO MAXIMIZE STRENGTH AND PROVIDE FOR EASE OF HANDLING.  
RECS ARE CATEGORIZED AS FOLLOWS:  
A. SHORT-TERM (FUNCTIONAL LONGEVITY 12 MO.)  
1. PHOTODEGRADABLE STRAW BLANKETS WITH A TOP AND BOTTOM SIDE PHOTO DEGRADABLE NET. THE MAXIMUM SIZE OF THE MESH SHALL BE OPENINGS OF 1/2" X 1/2". THE BLANKET SHOULD BE SEWN TOGETHER ON 1.5" CENTERS WITH DEGRADABLE THREAD. MINIMUM THICKNESS SHOULD BE 0.35" AND MINIMUM DENSITY SHOULD BE 0.5 LBS PER SQUARE YARD.  
2. BIODEGRADABLE STRAW BLANKET WITH A TOP AND BOTTOM SIDE BIODEGRADABLE JUTE NET. THE TOP SIDE NET SHALL CONSIST OF MACHINE DIRECTION STRANDS THAT ARE TWISTED TOGETHER AND THEN INTERWoven WITH CROSS FIBER STRANDS (LENO WEAVE). THE BOTTOM NET MAY BE LENO WEAVE OR OTHERWISE TO MEET REQUIREMENTS. THE APPROXIMATE SIZE OF THE MESH SHALL BE OPENINGS OF 0.5" X 1.0". THE BLANKET SHOULD BE SEWN TOGETHER ON 1.5" CENTERS WITH DEGRADABLE THREAD. MINIMUM THICKNESS SHOULD BE 0.25" AND MINIMUM DENSITY SHOULD BE 0.5 LBS PER SQUARE YARD.  
B. EXTENDED-TERM (FUNCTIONAL LONGEVITY 24 MO.)  
1. PHOTODEGRADABLE BLANKETS THAT CONSIST OF 70% STRAW AND 30% COCOONUT WITH A TOP AND BOTTOM SIDE PHOTO DEGRADABLE NET. THE TOP NET SHOULD HAVE ULTRAVIOLET ADDITIVES TO DELAY BREAKDOWN. THE MAXIMUM SIZE OF THE MESH SHALL BE OPENINGS OF 0.65" X 0.65". THE BLANKET SHOULD BE SEWN TOGETHER ON 1.5" CENTERS WITH DEGRADABLE THREAD. MINIMUM THICKNESS SHOULD BE 0.35" AND MINIMUM DENSITY SHOULD BE 0.6 LBS PER SQUARE YARD.  
2. BIODEGRADABLE BLANKETS THAT CONSIST OF 70% STRAW AND 30% COCOONUT WITH A TOP AND BOTTOM SIDE BIODEGRADABLE JUTE NET. THE TOP SIDE NET SHALL CONSIST OF MACHINE DIRECTION STRANDS THAT ARE TWISTED TOGETHER AND THEN INTERWoven WITH CROSS FIBER STRANDS (LENO WEAVE). THE BOTTOM NET MAY BE LENO WEAVE OR OTHERWISE TO MEET REQUIREMENTS. THE APPROXIMATE SIZE OF THE MESH SHALL BE OPENINGS OF 0.5" X 1.0". THE BLANKET SHOULD BE SEWN TOGETHER ON 1.5" CENTERS WITH DEGRADABLE THREAD. MINIMUM THICKNESS SHOULD BE 0.25" AND MINIMUM DENSITY SHOULD BE 0.5 LBS PER SQUARE YARD.  
C. LONG-TERM (FUNCTIONAL LONGEVITY 36 MO.)  
1. PHOTO DEGRADABLE BLANKETS THAT CONSIST OF 100% COCOONUT WITH A TOP AND BOTTOM SIDE PHOTO DEGRADABLE NET. EACH NET SHOULD HAVE ULTRAVIOLET ADDITIVES TO DELAY BREAKDOWN. THE MAXIMUM SIZE OF THE MESH SHALL BE OPENINGS OF 0.65" X 0.65". THE BLANKET SHOULD BE SEWN TOGETHER ON 1.5" CENTERS WITH DEGRADABLE THREAD. MINIMUM THICKNESS SHOULD BE 0.35" AND MINIMUM DENSITY SHOULD BE 0.5 LBS PER SQUARE YARD.  
2. BIODEGRADABLE BLANKETS THAT CONSIST OF 100% COCOONUT WITH A TOP AND BOTTOM SIDE BIODEGRADABLE JUTE NET. THE TOP SIDE NET SHALL CONSIST OF MACHINE DIRECTION STRANDS THAT ARE TWISTED TOGETHER AND THEN INTERWoven WITH CROSS FIBER STRANDS (LENO WEAVE). THE BOTTOM NET MAY BE LENO WEAVE OR OTHERWISE TO MEET REQUIREMENTS. THE APPROXIMATE SIZE OF THE MESH SHALL BE OPENINGS OF 0.5" X 1.0". THE BLANKET SHOULD BE SEWN TOGETHER ON 1.5" CENTERS WITH DEGRADABLE THREAD. MINIMUM THICKNESS SHOULD BE 0.25" AND MINIMUM DENSITY SHOULD BE 0.5 LBS PER SQUARE YARD.

**NOTES**  
1. INSTALLATION OF THIS SECTION TO ALLOW INTERCHANGEABLE USE OF HEC-2 AND HEC-3 FOR EROSION PROTECTION ON SLOPES. THE PROJECT ENGINEER SHOULD SELECT THE TYPE OF EROSION CONTROL PRODUCT THAT BEST FITS THE NEED OF THE PARTICULAR SITE.

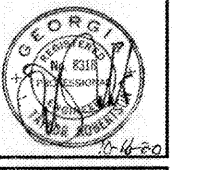
**SITE PREPARATION**  
AFTER THE SITE HAS BEEN SHAPED AND GRADED TO THE APPROVED DESIGN, PREPARE A FIBRILE SEEDBED RELATIVELY FREE FROM CLUMPS AND ROCKS MORE THAN ONE INCH IN DIAMETER, AND ANY FOREIGN MATERIAL THAT WILL PREVENT CONTACT OF THE SOIL STABILIZATION MAT WITH THE SOIL SURFACE. SURFACE MUST BE SMOOTH TO ENSURE PROPER CONTACT OF BLANKETS OR MATTING TO THE SOIL SURFACE. IF NECESSARY, REDIRECT ANY RUNOFF FROM THE DITCH OR SLOPE DURING INSTALLATION.

SLOPE STABILIZATION SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATION Ss - SLOPE STABILIZATION IN THE M.E.S.C.I.G.



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REVISIONS

NO.	DATE	DESCRIPTION
1	10-15-20	CITY COMMENTS

ES&PC  
DETAILS  
SHEET CONT'D  
DATE: 09-01-2020  
PROJECT NUMBER: 19-303  
SHEET NUMBER: C-6.3