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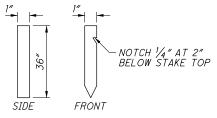
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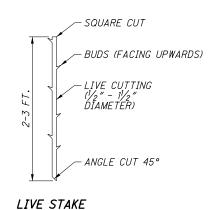
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DEAD STAKE (NTS)

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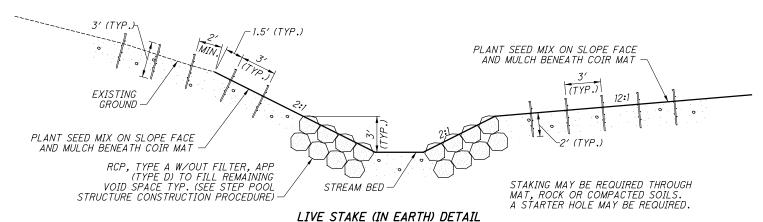


Slope Stabilization Seed Mix			
Botanical Name	Common Name	PLS	
		Ounces/Acre	
Permanent Grasses:			
Andropogon gerardii	Big Bluestem	48.00	
Bouteloua curtipendula	Side-Oats Grama	16.00	
Carex spp.	Prairie Sedge Species	4.00	
Elymus canadensis	Canada Wild Rye	32.00	
Elymus virginicus	Virginia Wild Rye	24.00	
Panicum virgatum	Switch Grass	12.00	
Schizachyrium scoparium	Little Bluestem	32.00	
Sorghastrum nutans	Indian Grass	32.00	
	Total	200.00	
Temporary Cover:			
Avena sativa	Common Oat	512.00	
Lolium multiflorum	Annual Rye	240.00	
	Total	752.00	

- 1. PREPARE THE SEEDBED AND PLACE SEED AND STRAW PRIOR TO INSTALLING COIR MAT.
- 2. INSTALL COIR MAT ALONG DISTURBED/EACAVATED STREAM REACHES (BANK WORK).
- 3. ADDITIONAL STAKING SHALL BE APPLIED IF THE COIR MAT SEPARATES FROM THE SOIL.

STAKE TOP OF FACE WITH FXTRA ROW OF DEAD STAKES -SECURE COIR MAT WITH DEAD STAKES (3' x 3' MAX. SPACING) LIVE STAKES ADD ADDITIONAL DEAD/LIVE STAKES ALONG LOWER EDGE, IF TRENCH ALL NECESSARY, TO KEEP UPSTREAM EDGES WATER FROM FLOWING STREAM BED INSTALL 1 LIVE STAKE UNDERNEATH FABRIC PER SQ. YD. LIVE STAKING -COIR MAT SHALL EXTEND DOWN TO LOW FLOW ELEVATION TYPICAL PLAN

COIR MAT WITH LIVE STAKES (NTS)



ITEM 661, PLANTING MISC.: LIVE STAKES

LIVE STAKING MUST BE PERFORMED DURING THE DORMANT PERIOD. THAT IS, NOVEMBER 31ST TO MARCH 31ST.

LIVE STAKES SHALL BE CUT FROM AN APPROVED SOURCE WITH A SHARP TOOL. STAKES SHALL BE FREE FROM DISEASE OR EXCESS DEAD TWIGS, 2 TO 3 FEET IN LENGTH WITH A BASAL END 0.5 TO 1.5 INCH IN DIAMETER.

STAKES SHALL BE OBTAINED FROM NURSERIES OR AN APPROVED SOURCE. STAKES MUST HAVE SIDE BRANCHES CLEANLY REMOVED AND BARK INTACT. AT THE TIME OF HARVESTING, THE BASAL (LOWER) ENDS SHOULD BE CUT AT AN ANGLE OR POINT FOR EASY INSERTION INTO THE SOIL. THE TOP SHOULD BE CUT SQUARE. THIS CUTTING PATTERN WILL ALSO INDICATE WHICH END MUST BE INSERTED.

THE LOWER THIRD OF THE STAKES MUST BE KEPT WET FROM THE TIME OF HARVESTING UNTIL THEY ARE INSTALLED. STAKES THAT HAVE NOT BEEN KEPT WET DURING HARVESTING, TRANSPORT, OR STORAGE WILL BE REJECTED. MATERIALS SHALL BE INSTALLED WITHIN TWO DAYS OF HARVESTING. STAKES MAY BE STORED LONGER WITH PERMISSION FROM THE ENGINEER, PROVIDED THEY ARE CONTINUOUSLY STORED IN WATER AT A TEMPERATURE BETWEEN 25 TO 40 DEGREES FAHRENHEIT.

INSTALL THE STAKES PERPENDICULAR TO THE GROUND SURFACE BY TAMPING THEM INTO THE GROUND WITH A DEAD BLOW MALLET. AT LEAST 3 OF EACH STAKE MUST EXTEND INTO THE SOIL. A STEEL ROD OR HYDRAULIC PROBE MAY BE USED TO MAKE A PILOT HOLE IN FIRM SOIL, PROVIDED THE ROD OR PROBE HAS A SMALLER DIAMETER THAN THE STAKES, SO THAT THE STAKES MAKE FIRM CONTACT WITH THE SOIL.

THE BARK ON THE STAKES MUST REMAIN INTACT DURING HARVESTING AND INSTALLATION. STAKES WITH BARK DAMAGED DURING INSTALLATION MUST BE REMOVED AND REPLACED, ANY STAKE THAT SPLITS MORE THAN 4 INCHES MUST BE REMOVED AND REPLACED.

SHREDDED TOPS OF THE STAKES MUST BE REMOVED AFTER INSTALLATION, LEAVING A CLEAN CUT END. UPON COMPLETION, ONLY % OF LIVE STAKE SHALL PROTRUDE FROM THE SOIL SURFACE.

661, PLANTING, MISC.: LIVE STAKES				
BOTANICAL NAME	COMMON NAME	SPACING (FT)	<i> QUANTITY</i>	
SALIX INTERIOR/EXIGUA	SANDBAR WILLOW		1200	
CORNUS AMOMUM	SILKY DOGWOOD	1	1200	
SALIX DISCOLOR	PUSSYWILLOW	1	1200	
SALIX NIGRA	BLACK WILLOW	3'x3'	1200	
VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	1	1200	
SAMBUCUS CANADENSIS	ELDERBERRY		1200	
CORNUS STOLONIFERA	RED OSIER DOGWOOD		1200	
TOTALS CARRIED TO GENERAL SUMMARY			8400	

659, SOIL ANALYSIS TEST 2 EACH 659, TOPSOIL 801 CY

GROWTH AND CARE OF PERMANENT SEEDED AREAS:

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE

SEEDING AND MULCHING, AS PER PLAN

659, SEEDING AND MULCHING, AS PER PLAN 7213 SY 659, REPAIR SEEDING AND MULCHING 361 SY 659. COMMERCIAL FERTILIZER 0.97 TON 1.49 ACRE 659, LIME

SEEDING AND MULCHING, AS PER PLAN SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING, AS PER PLAN ARE BASED ON THESE LIMITS. PAYMENT FOR COIR MATTING MATERIAL AND INSTALLATION SHALL BE INCLUDED WITH SEEDING AND MULCHING, AS PER PLAN

SEQUENCE OF CONSTRUCTION FOR ALL AREAS OF EXPOSED SOIL WITHIN THE CONSTRUCTION LIMITS SHALL CONSIST OF THE FOLLOWING:

- 1) PREPARE AREA USING TOPSOIL, COMMERCIAL FERTILIZER AND LIME PER CMS 659.
- 2) APPLY SLOPE STABILIZATION SEED MIX FROM TABLE ON THIS SHEET.
- 3) APPLY STRAW MULCH AT RATE OF 2 TONS/ACRE (80 BALES/ACRE).
- 4) INSTALL COIR MATTING (400-700 G/M2) SEE DETAIL THIS SHEET.

THE CONTRACTOR SHALL PROVIDE COIR MATTING FROM THE FOLLOWING LIST OF PRODUCTS/MANUFACTURERS OR AN APPROVED EQUIVALENT:

NEDIA KoirMat 700 NEDIA ENTERPRISES, INC. TEL: (888) 725-6999 FAX: (571) 223-0202 WWW.NEDIA.COM

BioD-Mat 70 ROLANKA INTERNATIONAL, INC. 155 ANDREW DRIVE STOCKBRIDGE, GA 30281 TEL: (800) 760-3215 FAX: (770) 506-0391 WWW.ROLANKA.COM

EC-7Y COIR MAT (700g-m2) EAST COAST EROSION CONTROL 443 BRICKER ROAD BERNVILLE, PA 19506 TEL: (800) 582-4005 FAX: (610) 488-8494 WWW.EASTCOASTEROSION.COM

BioNet C700BN WESTERN GREEN 4609 E. BOONVILLE-NEW HARMONY ROAD EVANSVILLE, IN 47725 TEL: (800) 772-2040 WWW.NAGREEN.COM

