

TOE REQUIREMENTS FOR BANK STABILIZATION

FILTER CLOTH UNDERLINER (PREFERRED)

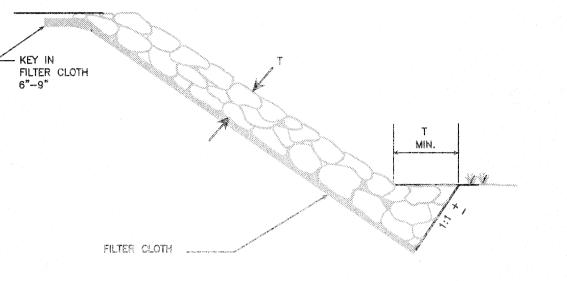


PLATE. 3.19-1

SOURCE: Adapted from VDOT Drainage Manual

VA ESCH STD & SPEC 3.19

TYPE A (SLOPES FLATTER THAN 3:1) 15 OCTOBER TO 1 FEBRUARY

K-31 FESCUE @ 5 LB / 1000 SF BORZY WINTER RYE @ 1/2 LB / 1000 SF TYPE B (SLOPES 3:1 OR STEEPER) 1 FEBRUARY TO 1 JUNE K-31 FESCUE @ 5 LB / 1000 SF ANNUAL RYE @ 1/2 LB / 1000 SF

1 JUNE TO 1 SEPTEMBER K-31 FESCUE @ 5 LB / 1000 SF GERMAN MILLET @ 1/2 LB / 1000 SF 1 SEPTEMBER TO 15 OCTOBER K-31 FESCUE @ 5 LB / 1000 SF

CROWN VETCH @ 1/2 LB / 1000 SF PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF RED TOP @ 1/8 LB / 1000 SF 15 AUGUST TO 1 OCTOBER CROWN VETCH @ 1/2 LB / 1000 SF PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF RED TOP @ 1/8 LB / 1000 SF ANNUAL RYE @ 1/2 LB / 1000 SF

140 LB / 1000 SF PULVERIZED AGRICULTURAL LIMESTONE FERTILIZER: 5-20-10 @ 25 LB / 1000 SF 38-0-0 @ 7 LB / 1000 SF

SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 3.35 OF THE VIR-GINIA EROSION AND SEDIMENT CONTROL HANDBOOK, 3rd ED. SOIL CONDITIONING: INCORPORATION OF LIME AND FERTILIZER, SELECTION OF CERTIFIED SEED, MULCHING, MAINTENANCE OF NEW SEED-LINGS, AND RESEEDING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS CONTAINED WITHIN THE VIRGINIA SOIL ERO-SION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION. ADDITIONAL SEEDING TO BE PERFORMED AS REQUIRED BY

SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRIABLE SEEDBED. MAX. SEEDING DEPTH SHALL BE 1/4 INCH.

PERMANENT SEEDING MIXTURE

<u>01 MARCH TO 30 APRIL</u> WINTER RYE (SECALE CERALE) © 2 1/2 LB / 1000 SF OR ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM) © 1 1/2 LF / 1000 SF OR KOREAN LESPEDEZA (LESPEDEZA STIPULACEA) © 1 1/2 LF / 1000 SF 01 MAY TO 15 AUGUST GERMAN MILLET (SETARIA ITALICA) @ 1 LB / 1000 SF OR WEEPING LOVEGRASS (ERAGROSTIS CLRVULA) @ 5 1/2 OZ / 1000 SF OR KOREAN LESPEDEZA (LESPEDEZA STIPULACEA) @ 1 1/2 LF / 1000 SF

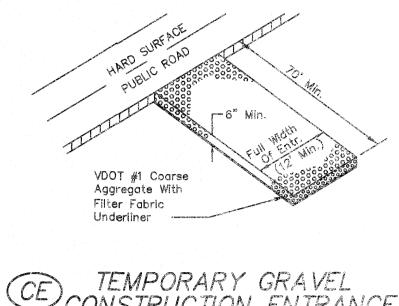
> Extend Fabric and Wire Into Trench

15 AUGUST TO 01 NOVEMBER
WINTER RYE (SECALE CERALE) @ 1 LB / 1000 SF AND ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM) @ 1 LF / 1000 SF SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE

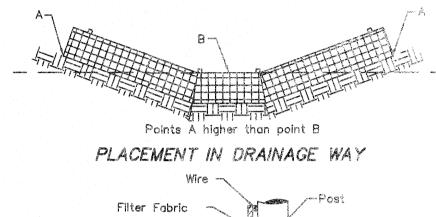
SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRIABLE SEEDBED. MAX. SEEDING DEPTH SHALL BE 1/4 INCH.

APPLIED IN ACCORDANCE WITH SECTION 3.35 OF THE VIR-GINIA EROSION AND SEDIMENT CONTROL HANDBOOK, 3rd ED.

TEMPORARY SEEDING

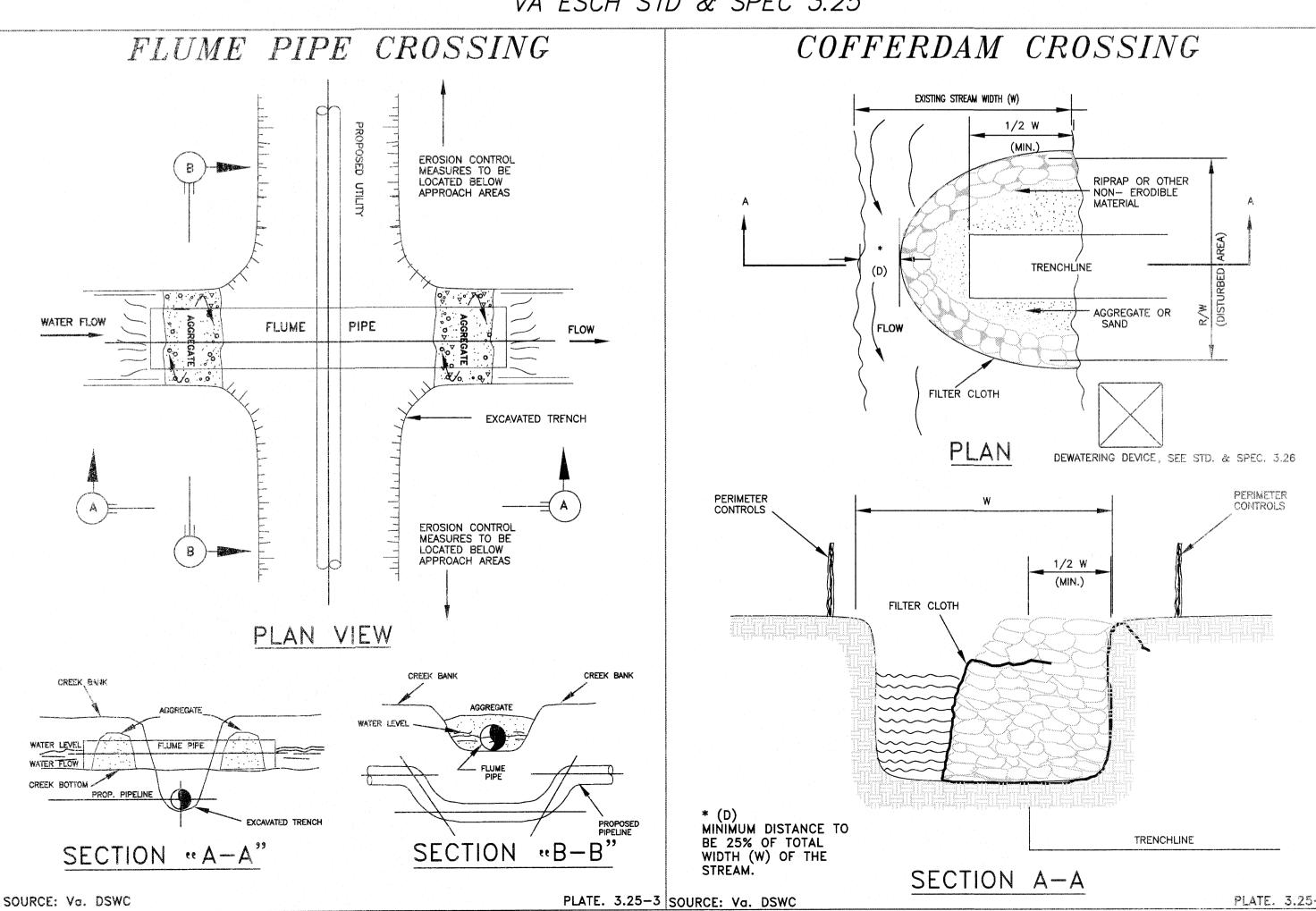


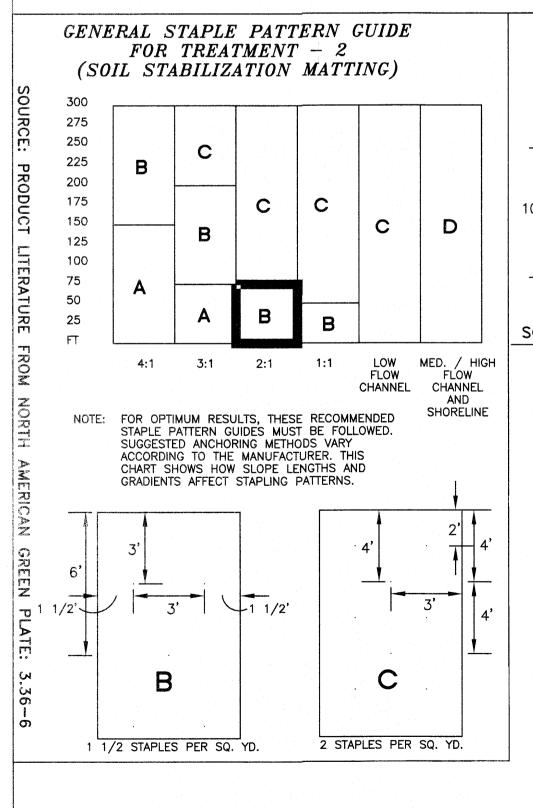
CONSTRUCTION ENTRANCE

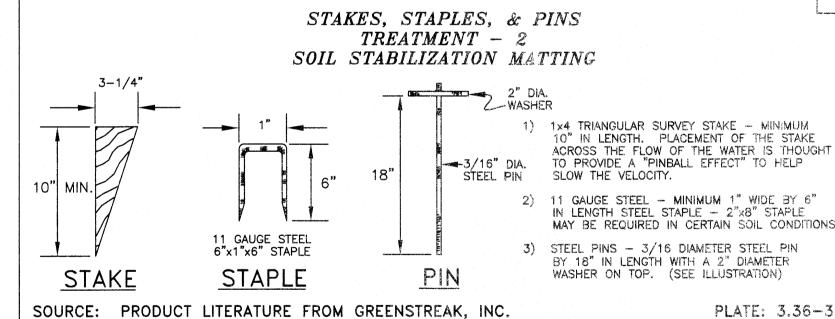


CROSS-SECTION

SILT FENCE







THE CONTRACTOR SHALL UTILIZE SOME MEASURE OF BLANKET MATTING, SOIL STABILIZATION, OR HYDROMULCH MATERIAL TO STABILIZE DISTURBED SLOPES AT 3:1 SLOPE OR STEEPER.

SOIL STABILIZATION BLANKETS & MATTING: VESCH STD & SPEC 3.36 TREATMENT-1: DEGRADABLE SOIL STABILIZATION BLANKET EXAMPLES: JUTE MESH, LANDSCAPE SUPPLY (NORTH AMERICAN GREEN) P300, C350, C125 EQUIVALENT SUPPLIERS

USE TO HELP ESTABLISH VEGETATIVE GROWTH, TEMPORARY MEASURES TREATMENT-2: NON-DEGRADABLE SOIL STABILIZATION BLANKET EXAMPLES: LANDSCAPE SUPPLY (NORTH AMERICAN GREEN) P550

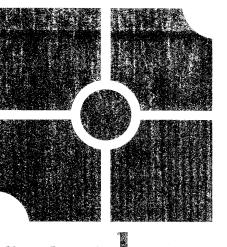
HYDRO MULCH: COMBINATION OF THERMALLY REFINED WOOD AND MULTI DIMENSIONAL TACKIFIER INSTALLED DURING THE HYDROSEEDING PROCESS OF STEEP SLOPES. MATERIAL CAN BE USED IN PLACE OF TREATMENT-1.

EXAMPLES: CONWED FIBERS HYDRO MULCH 2500 MAT, INC SOIL GUARD HYDROGRASS - GEOPERM EQUIVALENT SUPPLIERS INSTALLATION RATE PER MANUFACTURER RECOMMENDATIONS INSTALLATION: USE 50° AN TYPE NOZZLE

APPLICATION RATES: 3:1 OR FLATTER, USE 3,000 LBS/AC 2:1 USE 3,500 LBS/AC THERMALLY REFINED WOOD FIBER = 90% BLENDED MULTI-DIMENSIONAL HYDRO-COLLOID BASED TACKIFIER = 10% GREEN COLOR

MOISTURE: 10-13% + /- 2%APPLICATION: RAIN DOWN ON SURFACE TO IMPROVE SOIL COVERAGE. APPLY FROM OPPOSING DIRECTIONS TO .
MUST CURE OR DRY COMPLETELY TO BE EFFECTIVE. SHOULD NOT BE APPLIED WITHIN 24 HOURS OF EXPECTED RAINFALL.

SOIL STABILIZATION BLANKETS/MATTING/HYDROMULCH VA ESCH STD & SPEC 3.36

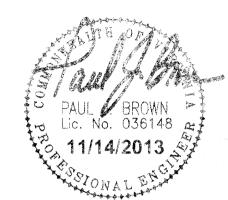


DESIGN GROUP

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REVISIONS:

DESIGNED BY REC/PJB DRAWN BY: REC/PJB

SRB CHECKED BY: SCALE: As Shown DATE: 14 November 2013

SHEET TITLE:

ESC Details

