

CHANNEL SCC#1 --->SEE DITCH 'G' DETAIL SCC#2 --->SEE DITCH 'H' DETAIL SCC#3 --->SEE DITCH 'I' DETAIL

EC-1 CLASS II RIP RAP

LENGTH OF APRON=19'

EC-1 CLASS I RIP RAP

LENGTH OF APRON=10'

TYPE B (SLOPES 3:1 OR STEEPER)

PERENNIAL RYEGRASS • 1/2 LB / 1000 SF

CROWN VETCH • 1/2 LB / 1000 SF PERENNIAL RYEGRASS • 1/2 LB / 1000 SF

CROWN VETCH • 1/2 LB / 1000 SF

RED TOP • 1/8 LB / 1000 SF

RED TOP • 1/8 LB / 1000 SF

2-10 ACRES OF DRAINAGE AREA:

(DOWNSTREAM VIEW)

ROCK CHECK DAMS

CLASS I RIPRAP

15 MARCH TO 1 MAY

15 AUGUST TO 1 OCTOBER

WIDTH @ OUTLET=6'

WIDTH @ END=12'

MIN. D50 SIZE=6"

WIDTH @ OUTLET=6'

MIN. D50 SIZE=8"

DEPTH = 24"

DEPTH = 36"

DITCH DETAILS ON SHEET C-18

STORMWATER

CONVEYANCE ALL COSTS GIVEN ARE COMPLETE IN PLACE **DESCRIPTION QUANTITY** UNIT COST CONSTRUCTION EΑ \$ 1,200 1,200 NTRANCE SILT FENCE LF 1600 3.00 4,800 INLET PROTECTION EΑ 20 200 4,000 TEMPORARY FILL LF 2200 3.00 5,850 DIVERSION / DIVERSION DIK STORMWATER LF 3,000 1000 3.00 CONVEYANCE CHANNEL EΑ 600 **OUTLET PROTECTION** 200 SEDIMENT BASIN EΑ 2,000 2,000 OUTLET PROTECTION #3- (STR. #45) Q25=33.96 CFS; V25=17.97 FPS 4800 1.50 7,200 **BLANKET MATTING** S.Y. 1000 SF PERMANENT SEEDING 500 20 10,000 1000 SF TEMP. SEEDING 7,500 WIDTH @ END=TOP OF BANK 500 EA CHECK DAMS 100 700 OUTLET PROTECTION #4- (SB) Q2=16.4 CFS; V2=11.5 FPS 46,850 SUB-TOTAL 4,685 10% CONTINGENCY

EROSION & SEDIMENT CONTROL

BONDING COST ESTIMATE

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. ALL SOIL EROSION & SEDIMENT CONTROL MEASURES SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION 2. THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR

TOTAL PROJECT COST

OTHERWISE MODIFY CERTAIN EROSION AND SEDIMENT CONTROL MEASURES WHERE FIELD CONDITIONS ARE ENCOUNTERED THAT WARRANT SUCH MODIFICATIONS. 3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE PLACED IN ADVANCE OF THE WORK BEING PERFORMED, AS FAR AS

4. IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN

5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LEAVE THE SITE ADEQUATELY PROTECTED AGAINST EROSION, SEDIMENTATION, OR ANY DAMAGE TO ANY ADJACENT

PROPERTY AT THE END OF EACH DAY'S WORK. 6. FOR THE EROSION CONTROL KEY SYMBOLS SHOWN ON THE PLANS, REFER TO THE VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST

EDITION. THESE SYMBOLS AND KEYS ARE TO BE UTILIZED ON ALL EROSION CONTROL PLANS SUBMITTED TO ROANOKE COUNTY. 7. THE LOCATION OF ALL OFF-SITE FILL OR BORROW AREAS ASSOCIATED WITH construction project will be provided to roanoke coun DEPARTMENT OF COMMUNITY DEVELOPMENT. AN EROSION CONTROL PLAN OR

MEASURES MAY BE REQUIRED FOR THIS AREA. 8. THIS SHEET MAY NOT BE MODIFIED EXCEPT FOR TABLES

DEFINITION - THE ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS BY SEEDING SITH APPROPRIATE RAPIDLY GROWING ANNUAL PLANTS.

TOTAL DISTURBED AREA = 12.0 AC.= 523,000 SO. FT.

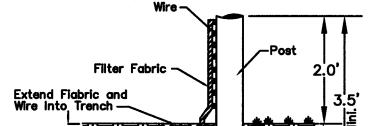
LIMING REQUIREMENTS FOR TEMPORARY SITES OF AGRICULTURAL LIMESTONE 3 TONS PER ACRE

ACCEPTABLE TEMPORARY SEEDING PLANT MATERIAL ' quick reference for all regions'

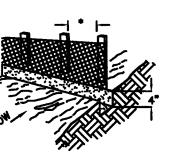
WINTER RYE

GERMAN MILLET

TEMPORARY SEEDING



CROSS-SECTION



60 - 100

(SF) CONSTRUCTION OF A SILT FENCE

DRAWN BY DESIGNED BY BTC CHECKED BY CPB DATE <u>05/24/2010</u> SCALE **REVISIONS:** 08/13/2010

02/27/2013

12/15/2014 P.R. #4 SHEET NO.

COMMUNI

REFLECTING TOMORRO

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Richmond

Roanoke

Shenandoah Valley

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SITE DEVELOPMENT ENGINEERING LAND USE PLANNING & ZONING

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ENVIRONMENTAL & SOIL SCIENCE

VETLAND DELINEATIONS & STREAM EVALUATIONS

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12/15/14

\$ 51,535

HOLLINS JOKE COL

10/15/2010 12/10/2010 02/06/2012 10/18/2012 02/14/2013

04/24/2013 08/30/2013 P.R. #2