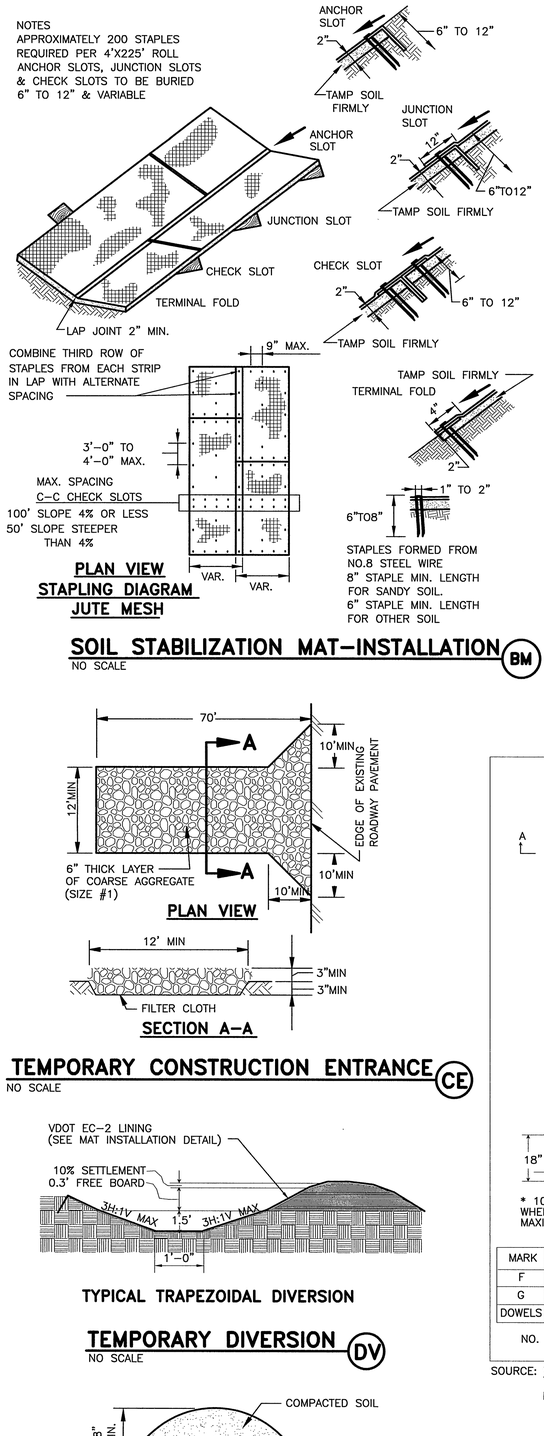
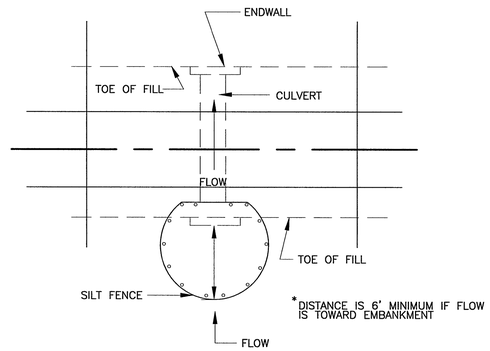
NOTES
APPROXIMATELY 200 STAPLES REQUIRED PER 4'X225' ROLL
ANCHOR SLOTS, JUNCTION SLOTS & CHECK SLOTS TO BE BURIED 6" TO 12" & VARIABLE




PLAN VIEW
STAPLING DIAGRAM
JUTE MESH

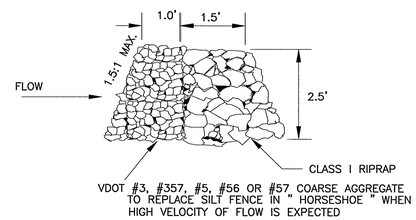
## SOIL STABILIZATION MAT-INSTALLATION (BM)
NO SCALE

## SILT FENCE CULVERT INLET PROTECTION

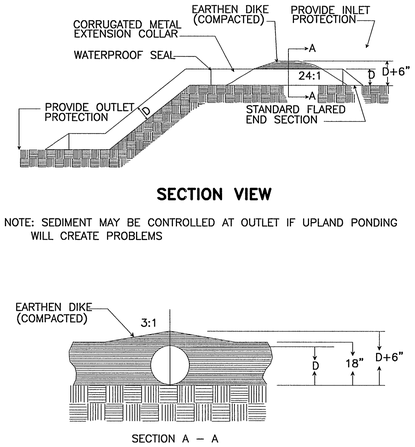



*DISTANCE IS 6' MINIMUM IF FLOW IS TOWARD EMBANKMENT

## *OPTIONAL STONE COMBINATION




## TEMPORARY SLOPE DRAIN




SECTION VIEW

NOTE: SEDIMENT MAY BE CONTROLLED AT OUTLET IF UPLAND PONDING WILL CREATE PROBLEMS

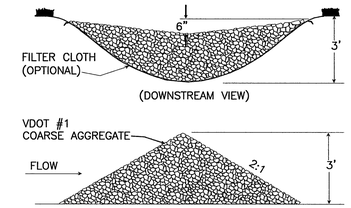
SECTION A – A

SOURCE: VA. DSWC PLATE 3.15-1

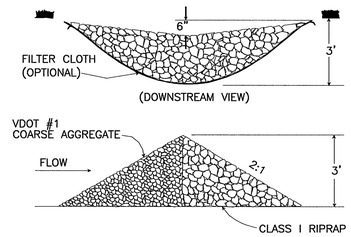
## TEMPORARY SLOPE DRAIN (TSD)
NO SCALE

## ROCK CHECK DAM

### 2 ACRES OR LESS OF DRAINAGE AREA (TYPE 1)

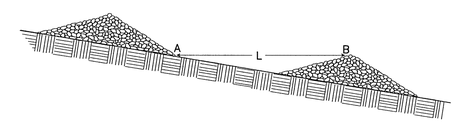



### 2-10 ACRES OF DRAINAGE AREA (TYPE 2)




SOURCE: VA. DSWC PLATE. 3.20-1

L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION




## SPACING BETWEEN CHECK DAMS (CD)
NO SCALE

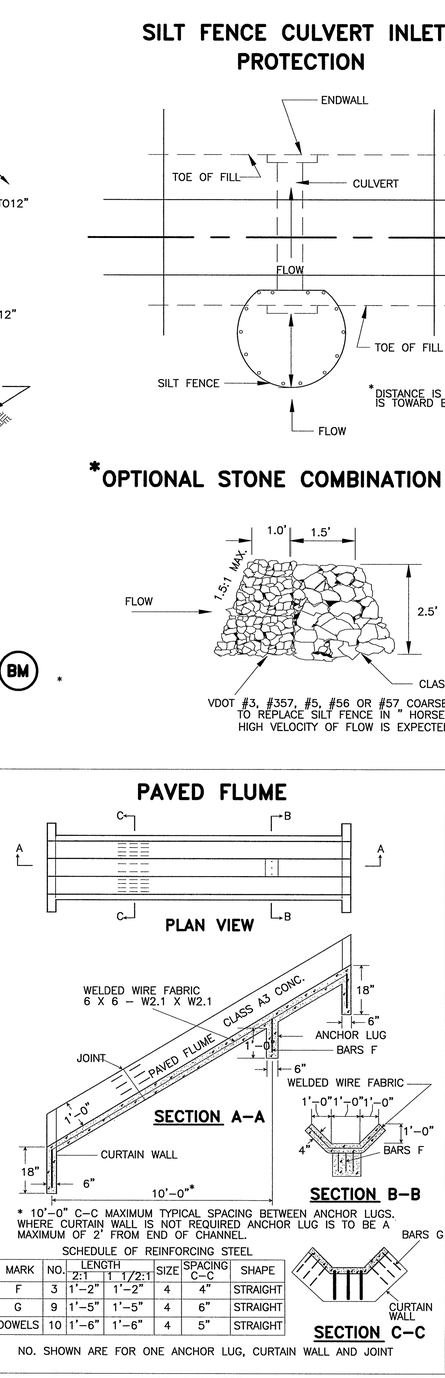



PLAN VIEW

SECTION A-A

## TEMPORARY CONSTRUCTION ENTRANCE (CE)
NO SCALE

## PAVED FLUME




PLAN VIEW

SECTION A-A

SECTION B-B

* 10'-0" C-C MAXIMUM TYPICAL SPACING BETWEEN ANCHOR LUGS. WHERE CURTAIN WALL IS NOT REQUIRED ANCHOR LUG IS TO BE A MAXIMUM OF 2' FROM END OF CHANNEL.

SCHEDULE OF REINFORCING STEEL

| MARK | NO. | LENGTH 2:1 | LENGTH 1 1/2:1 | SIZE | SPACING C-C | SHAPE |
|---|---|---|---|---|---|---|
| F | 3 | 1'-2" | 1'-2" | 4 | 4" | STRAIGHT |
| G | 9 | 1'-5" | 1'-5" | 4 | 6" | STRAIGHT |
| DOWELS | 10 | 1'-6" | 1'-6" | 4 | 5" | STRAIGHT |

NO. SHOWN ARE FOR ONE ANCHOR LUG, CURTAIN WALL AND JOINT

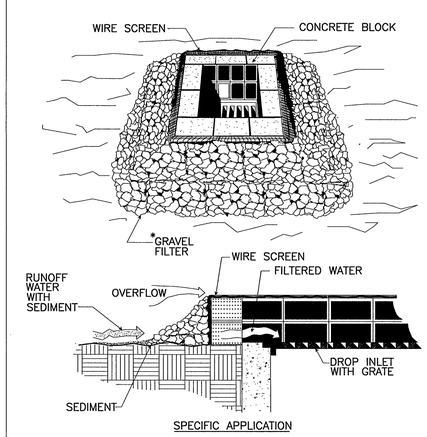
SECTION C-C

SOURCE: VDOT ROAD AND BRIDGE STANDARDS PLATE. 3.16-1

NOTE: PERMANENT DIVERSION CONSISTS OF PAVED DITCHES AND FLUME AS SHOWN ON SHEET CS104.

## PERMANENT DIVERSION (DV)
NO SCALE

## BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER




SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

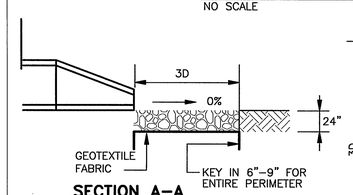
* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE.

SOURCE: VA. DSWC PLATE. 3.07-3

## INLET PROTECTION (IP)
NO SCALE

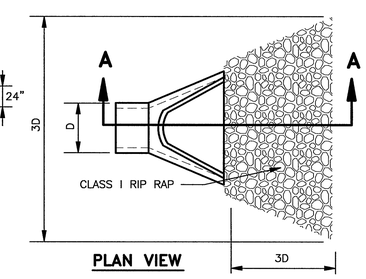
NOTE:

APPLICATION RATE FOR STRAW MULCH SHALL BE 1.5-2 TONS PER ACRE (MINIMUM 2 TONS FOR WINTER COVER), OR EQUIVALENT MEASURE OF 70-90 LBS. PER 1000 SQ. FT. STRAW MULCH MUST BE FREE FROM WEEDS AND COARSE MATTER, AND MUST BE ANCHORED. SPREAD WITH MULCH BLOWER OR BY HAND.




SECTION A-A

NOTE: DETAIL APPLIES ALSO TO PIPE OUTLETS WITH END-WALLS AND WITH NO END TREATMENT.



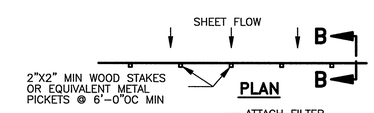

PLAN VIEW

## OUTLET PROTECTION (OP)
NO SCALE

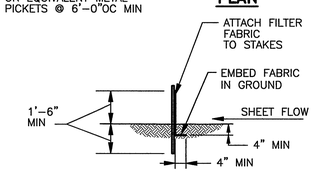



TYPICAL TRAPEZOIDAL DIVERSION

## TEMPORARY DIVERSION (DV)
NO SCALE

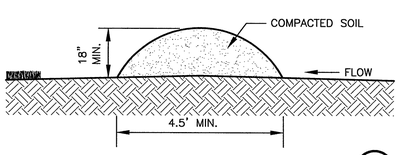



PLAN




SECTION B-B

## TEMPORARY SILT FENCE (SF)
NO SCALE




## TEMPORARY DIVERSION DIKE (DD)
NO SCALE


HSMM | AECOM

HAYES, SEAY, MATTERN & MATTERN, INC.
1315 FRANKLIN ROAD
ROANOKE, VA 24016
(540) 857-3100 www.hsmm.com


SEALS

COMMONWEALTH OF VIRGINIA
DAVID M. HENDERSON
Lic. No. 22296
1-13-09
PROFESSIONAL ENGINEER

CONSULTANT

WESTERN VIRGINIA WATER AUTHORITY

FALLING CREEK DAM RENOVATION

WESTERN VIRGINIA WATER AUTHORITY

BEDFORD COUNTY, VIRGINIA

| REV | DATE | DESCRIPTION | APP |
|---|---|---|---|

| | |
|---|---|
| PROJECT NO: 61034 | PROJECT PH: REGULATORY REVIEW |
| ISSUE DATE: JANUARY 12, 2009 | |
| DESIGNED BY: CAT | DRAWN BY: MAL |
| CHECKED BY: DMH | SUBMITTED BY: DMH |

CIVIL

EROSION AND SEDIMENT CONTROL DETAILS

CS502