

REV. 12-18-95: CHANGED DRAWING NO. FROM ESC-STR-12 TO EC-STR-12.

REV. 5-27-01: CHANGED ITEM NOS. 303-15.01 TO 303-10.01 AND 740-04.01 TO 740-10.04. CHANGED DESCRIPTION FOR ITEM NOS. 709-05.06 AND 709-05.07.

REV. 12-18-02: CHANGED GENERAL NOTE C.

REV. 1-22-03: CORRECTED GENERAL NOTE B. ADDED ADDITIONAL GEOTEXTILE FABRIC TO PROFILE VIEW.

REV. 4-15-06: REFORMATTED SHEET, REVISED NOTES, MISC. EDITS TO DRAWING.

REV. 4-1-08: MISC. EDITS TO DRAWING, ADDED AND RE-ORDERED GENERAL NOTES, CHANGED DRAWING NAME.

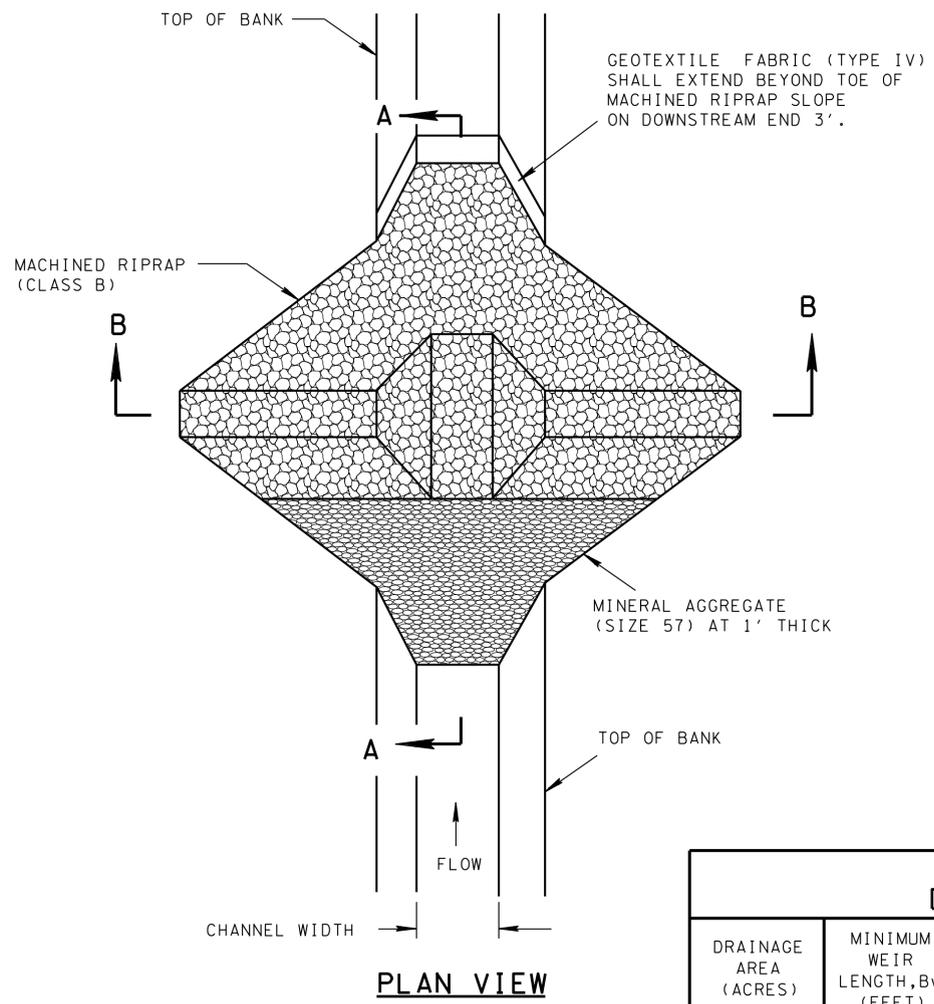
REV. 8-1-12: MINOR EDITS TO GENERAL NOTES.

WEIR HEIGHT AND TOP WIDTH		
HEIGHT OF DAM (D) IN FEET	WEIR HEIGHT (Do) IN FEET	WIDTH AT TOP OF DAM (W) IN FEET
5 - 7	3 - 5	4
7 - 8	5 - 6	5
8 - 10	6 - 8	6

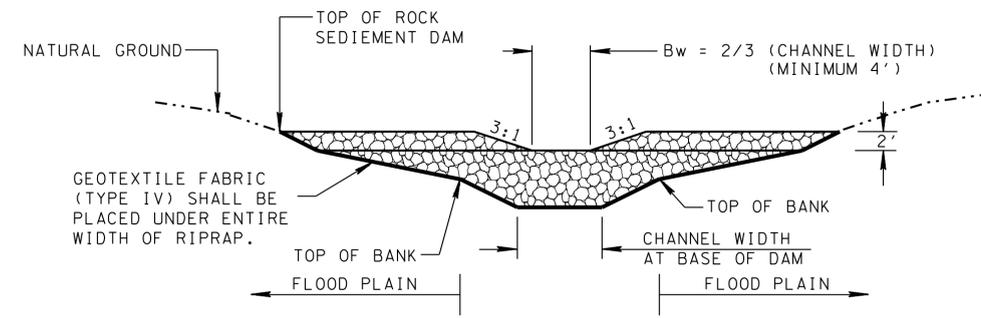
MAXIMUM HEIGHT (Do) OF DAM AT WEIR IS 8 FEET.

### ROCK SEDIMENT DAM GENERAL NOTES

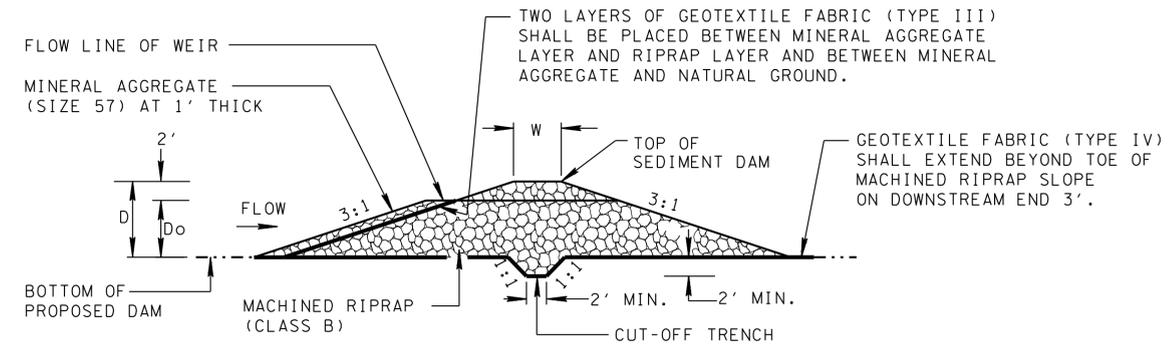
- (A) ROCK SEDIMENT DAMS ARE FOR TEMPORARY USE. WHERE A PERMANENT FACILITY IS REQUIRED, CONSIDER THE USE OF A SEDIMENT BASIN, WHICH CAN BE CONVERTED INTO A PERMANENT DETENTION BASIN. ROCK SEDIMENT DAMS WILL REQUIRE A PERMIT IF USED IN A STREAM.
  - (B) THE MAXIMUM DRAINAGE AREA SHALL BE 50 ACRES.
  - (C) ROCK SEDIMENT DAMS SHALL ONLY BE USED WHEN THE WATER IMPOUNDMENT AREA CAN BE CONTAINED WITHIN THE RIGHT-OF-WAY OR WITHIN A DRAINAGE EASEMENT FOR THE PROJECT.
  - (D) ROCK SEDIMENT DAM IMPOUNDMENTS SHOULD BE DEWATERED WITH A DEWATERING STRUCTURE (EC-STR-1) OR SEDIMENT FILTER BAG (EC-STR-2) AS NEEDED. REFER TO THEIR RESPECTIVE STANDARD DRAWING FOR INSTALLATION DETAILS AND ITEM NUMBERS.
  - (E) THE CENTER OF THE ROCK SEDIMENT DAM MUST BE AT LEAST TWO (2) FEET LOWER THAN THE OUTER EDGES. THIS WILL ELIMINATE THE ROCK - SOIL FAILURE POINT WHERE THE SEDIMENT DAM AND NATURAL GROUND MERGE.
  - (F) ONLY GEOTEXTILE FABRIC (TYPE III) LISTED ON THE QUALIFIED PRODUCTS LIST SHALL BE USED.
  - (G) ONLY GEOTEXTILE FABRIC (TYPE IV) LISTED ON THE QUALIFIED PRODUCTS LIST SHALL BE USED.
  - (H) ROCK SEDIMENT DAMS SHALL BE PAID FOR UNDER THE FOLLOWING ITEM NUMBERS:
    - 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED) PER CUBIC YARD
    - 303-10.01 MINERAL AGGREGATE (SIZE 57) PER TON
    - 709-05.08 MACHINED RIPRAP (CLASS B) PER TON
    - 740-10.03 GEOTEXTILE (TYPE III) (EROSION CONTROL) PER SQUARE YARD
    - 740-10.04 GEOTEXTILE (TYPE IV) (STABILIZATION) PER SQUARE YARD
- DEWATERING STRUCTURES AND SEDIMENT FILTER BAGS SHALL BE PAID FOR UNDER THEIR RESPECTIVE STANDARD DRAWING.
- PAYMENT SHALL INCLUDE ALL MATERIALS, EXCAVATION, AND LABOR NECESSARY FOR THE CONSTRUCTION, MAINTENANCE, AND REMOVAL OF THE ROCK SEDIMENT DAMS.
- (I) SEDIMENT SHALL BE REMOVED FROM BEHIND THE ROCK SEDIMENT DAMS WHEN IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE STRUCTURE AND PAID FOR UNDER ITEM NUMBER 209-05, SEDIMENT REMOVAL PER CUBIC YARD.



ROCK SEDIMENT DAM DIMENSIONS				
DRAINAGE AREA (ACRES)	MINIMUM WEIR LENGTH, Bw (FEET)	MINIMUM CHANNEL WIDTH (FEET)	MAXIMUM WEIR FLOW VELOCITY (FT/SEC)	MINIMUM REQ'D WEIR HEIGHT, Do (FEET)
20	4.0	4.0	4.97	3.0
30	4.0	4.0	5.43	3.5
40	4.0	4.0	5.70	4.0
50	4.2	6.3	5.92	4.5



SECTION B-B



SECTION A-A

EROSION CONTROL PLAN LEGEND:  ROCK SEDIMENT DAM

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

NOT TO SCALE

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ROCK  
SEDIMENT DAM