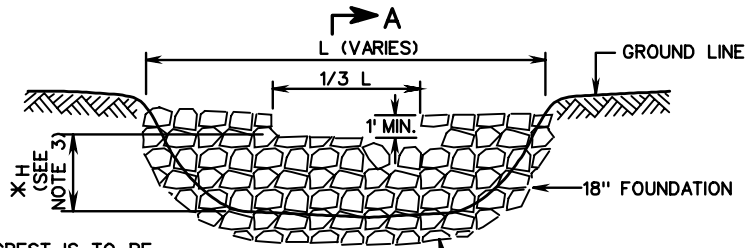


EC-4

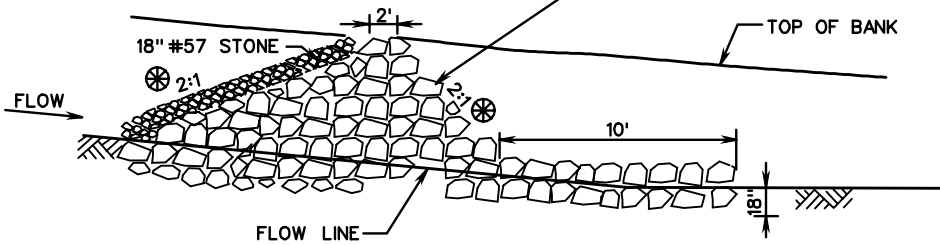
TYPICAL DETAIL FOR ROCK CHECK DAM TYPE I



FRONT ELEVATION

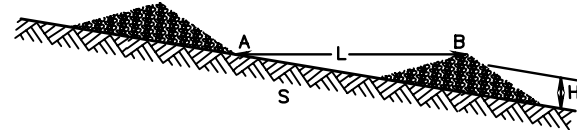
DRY RIPRAP CLASS I

\* HEIGHT (H) OF CREST IS TO BE 3'± IF CHANNEL OR SWALE IS DEEP ENOUGH OR AS DESIGNATED BY DESIGNER.



SECTION A-A

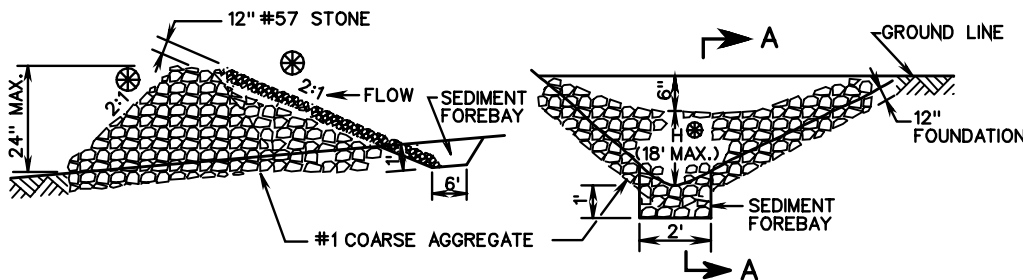
SUGGESTED ROCK CHECK DAM SPACING



L = H/S WHERE:  
 H - HEIGHT OF DAM CREST IN FEET  
 S - CHANNEL SLOPE IN FT/FT  
 L - CHECK DAM SPACING IN FEET; THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

CHECK DAM SPACING, L TO BE DETERMINED FROM THE EQUATION. IN STEEP SLOPE AREAS THE CHECK DAM SPACING IS NOT TO BE LESS THAN 25'.

TYPICAL DETAIL FOR ROCK CHECK DAM TYPE II



SECTION A-A

FRONT ELEVATION

NOTES:

1. ROCK CHECK DAMS THAT ARE DESIGNATED ON THE PLANS AS A STORMWATER MANAGEMENT (SWM) ITEM ARE TO BE LEFT IN PLACE AS A PERMANENT INSTALLATION.
2. WHERE DRAINAGE AREAS EXCEED 1 ACRE OR DITCH GRADE EXCEEDS 3%, A TEMPORARY SEDIMENT FOREBAY SHALL BE INSTALLED WITH MINIMUM DIMENSIONS OF 12" DEPTH, 2' WIDTH AND 6' LENGTH.
3. IF CHECK DAMS IS LOCATED INSIDE CLEAR ZONE AND ADJACENT TO A TRAVELWAY, SLOPE FACING ON COMING TRAFFIC IS TO BE 6:1 AND MAXIMUM H IS TO BE 12".
4. ALTERNATIVE MATERIALS ON VDOT'S SPEL LIST MAY BE SUBSTITUTED AT NO ADDITIONAL COST TO THE DEPARTMENT.
5. SEE STANDARD EC-5 FOR DETAILS FOR ROCK CHECK DAMS IN ROADSIDE DITCHES
6. CHECK DAM SHALL NOT BE USED FOR LOCATIONS IN LIVE STREAM.



ROAD AND BRIDGE STANDARDS

ROCK CHECK DAMS TYPE I & II

SPECIFICATION REFERENCE

SHEET 1 OF 1

REVISION DATE

113.06

VIRGINIA DEPARTMENT OF TRANSPORTATION

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