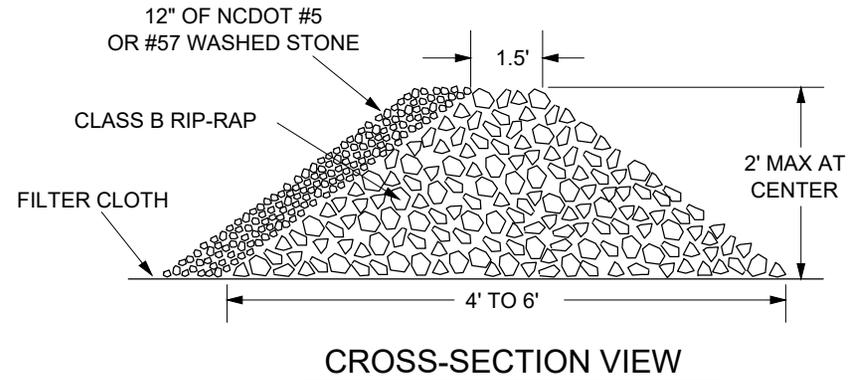
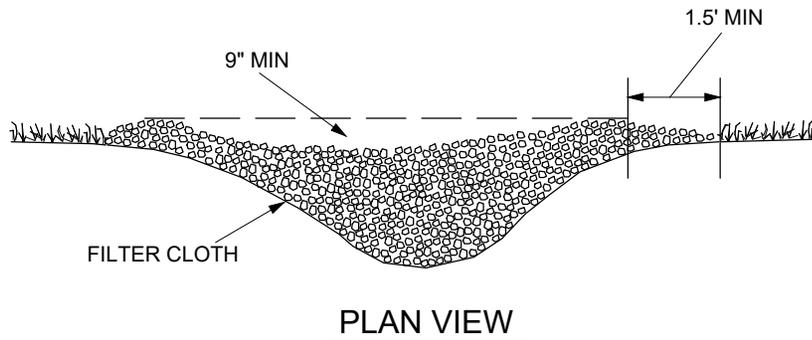


DESIGN CRITERIA

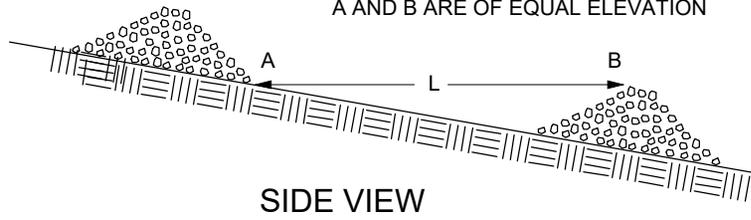
1. THE DRAINAGE AREA IS LIMITED TO ONE HALF ACRE.
2. KEEP A MAXIMUM HEIGHT OF 2 FEET AT THE CENTER OF THE DAM.
3. KEEP THE CENTER OF THE CHECK DAM AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES AT NATURAL GROUND ELEVATION.
4. KEEP THE SIDE SLOPES OF THE DAM AT 2:1 OR FLATTER.
5. ENSURE THAT THE MAXIMUM SPACING BETWEEN DAMS PLACES THE TOE OF THE UPSTREAM DAM AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
6. STABILIZE OUTFLOW AREAS ALONG THE CHANNEL TO RESIST EROSION.
7. USE NCDOT CLASS B STONE AND LINE THE UPSTREAM SIDE OF THE DAM WITH NCDOT #5 OR #57 STONE.
8. KEY THE STONE INTO THE DITCH BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIMUM OF 1.5 FEET TO AVOID WASHOUT FROM OVERFLOW AROUND THE DAM.

NOTES

1. PLACE STONE TO THE LINE AND DIMENSION SHOWN IN THE PLAN ON A FILTER FABRIC FOUNDATION.
2. KEEP THE CENTER STONE SECTION AT LEAST 9 INCHES BELOW NATURAL GROUND LEVEL WHERE THE DAM ABUTS THE CHANNEL BANKS.
3. EXTEND STONE AT LEAST 1.5 FEET BEYOND THE DITCH BANK TO KEEP WATER FROM CUTTING AROUND THE ENDS OF THE CHECK DAM.
4. SET SPACING BETWEEN DAMS TO ASSURE THAT THE ELEVATION AT THE TOP OF THE LOWER DAM IS THE SAME AS THE TOE ELEVATION OF THE UPPER DAM.
5. PROTECT THE CHANNEL AFTER THE LOWEST CHECK DAM FROM HEAVY FLOW THAT COULD CAUSE EROSION.
6. MAKE SURE THAT THE CHANNEL REACH ABOVE THE MOST UPSTREAM IS STABLE.
7. ENSURE THAT OTHER AREAS OF THE CHANNEL, SUCH AS CULVERT ENTRANCES BELOW THE CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.



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



PURPOSE: TO REDUCE EROSION IN A CHANNEL BY REDUCING THE VELOCITY OF FLOW.

DO NOT USE CHECK DAM IN INTERMITTENT OR PERENNIAL STREAMS.

SEE DEQ STANDARDS & SPECS.
FOR COMPLETE DESIGN CRITERIA & MAINTENANCE



**TOWN OF INDIAN TRAIL
STANDARD DETAIL**

CHECK DAM

REVISIONS	Scale
	Not To Scale
	Revision Date
	02/2021
	Detail #
	EC_4.01