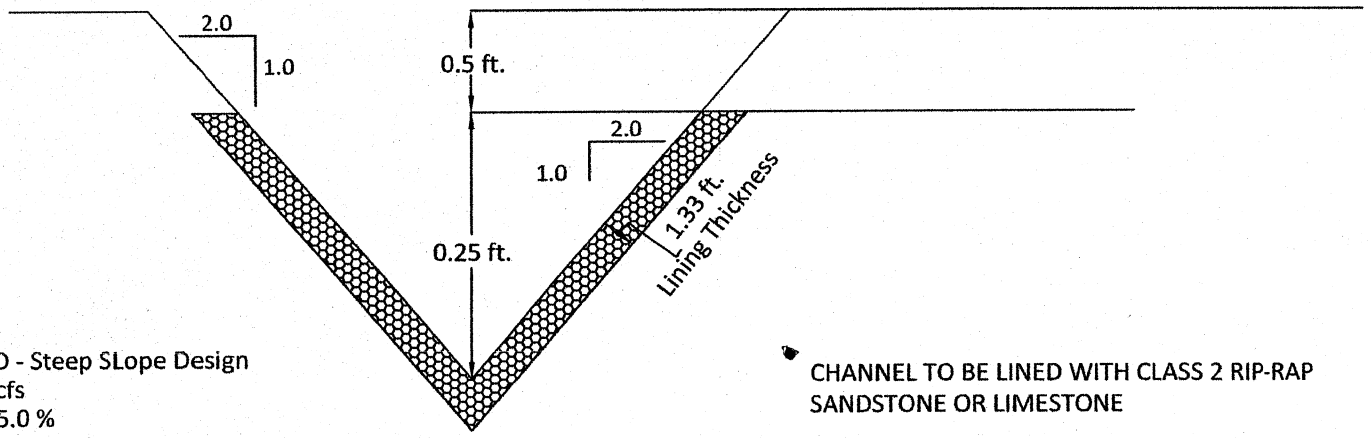
TYPICAL ROAD DITCH 10.0% – 15.0%
RIP–RAP CHANNEL CROSS–SECTION



CHANNEL TO BE LINED WITH CLASS 2 RIP-RAP
SANDSTONE OR LIMESTONE

SIMONS/OSM METHOD - Steep SLope Design
Design Discharge: 3.0 cfs

	10.0 %	15.0 %
Depth:	0.21 ft.	0.16 ft.
Depth w/ Freeboard:	0.71 ft.	0.66 ft.
Top Width:	0.82 ft.	0.64 ft.
Top Width w/Freeboard:	2.82 ft.	10.11 ft.
VELOCITY:	**	**
X-SECTION AREA:	0.08 sq. ft.	0.05 sq. ft.
HYDRAULIC RADIUS:	0.092	0.072
FROUDE NUMBER:	**	**
MANNING'S N:	**	**
Dmin:	4.00 in.	4.00 in.
D50:	12.00 in.	12.00 in.
Dmax:	15.00 in.	15.00 in.

Velocity and Manning's n calculations may not apply for this method.