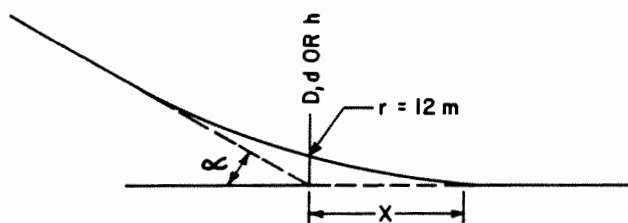


TOE OF SIDE SLOPES ON EMBANKMENT AND DITCH SECTION			
SIDE SLOPE	DITCH	CROSS SLOPES	X (m)
6:1		0 % (MEDIAN)	0.99
6:1		3 %	0.81
5:1		3 %	1.01
4:1		3 %	1.29
3:1		3 %	1.73

TOE OF SIDE SLOPES ON EMBANKMENT SECTIONS				
SIDE SLOPE	X (m) FOR NATURAL GROUND SLOPES OF :			
	FLAT	-1%	-2%	-3%
6:1	0.99	0.93	0.87	0.81
5:1	1.19	1.11	1.07	1.01
4:1	1.47	1.41	1.35	1.29
3:1	1.93	1.87	1.81	1.73

TOE OF BACK SLOPE			
BACK SLOPE	DITCH	CROSS SLOPES	X (m)
6:1		3 %	1.17
5:1		3 %	1.37
4:1		3 %	1.66
3:1		3 %	2.11
2:1		3 %	3.02



FOR OTHER COMBINATIONS OF SLOPES USE
THE FORMULA $X = r \tan 1/2 \alpha$

REVISED: MAY 4, 1987

RECOMMENDED

APPROVED

DATE: JULY 6, 1977

ROAD DESIGN ENGINEER

CHIEF ENGINEER

SASKATCHEWAN DEPARTMENT OF HIGHWAYS
AND TRANSPORTATION

DETAILS OF "X" DISTANCE FOR
CIRCULAR VERTICAL CURVES AT
THE TOE OF SIDE AND BACK SLOPES

STANDARD

PLAN
NO.

21008