

GRADE	MAINLANE DESIGN SPEED	GRADE FACTOR, G
EXIT RAMPS		All Vehicle Speeds
Up 5% and more	All	0.8
Up 3% to 5%		0.9
Up 3% to down 3%		1.0
Down 3% to 5%		1.2
Down 5% and more		1.4

Distance to point A on grade = $120 + G$ (Distance on level - 120)

ENTRANCE RAMPS		30	40	50	60	70	80	90
Up to 5% and more	60	1.4	1.5	1.5	--	--	--	--
	70	1.4	1.5	1.6	1.8	--	--	--
	80	1.5	1.6	1.7	1.9	2.0	--	--
	90	1.6	1.7	1.8	2.0	2.2	2.3	--
	100	1.8	1.9	2.0	2.2	2.4	2.6	2.7
	110	2.0	2.1	2.2	2.4	2.6	2.9	3.0
Up 3% to 5%	60	1.2	1.3	1.3	--	--	--	--
	70	1.3	1.3	1.3	1.4	--	--	--
	80	1.3	1.4	1.4	1.5	1.5	--	--
	90	1.4	1.4	1.4	1.5	1.5	1.6	--
	100	1.5	1.5	1.5	1.6	1.6	1.6	1.6
	110	1.4	1.5	1.6	1.7	1.7	1.8	1.9

ENTRANCE RAMPS	All Vehicle Speeds	
Up 3% to down 3%	All	1.0
Down 3% to 5%	60	0.7
	70	0.7
	80	0.65
	90	0.6
	100	0.6
	110	0.6
Down 5% and more	60	0.6
	70	0.6
	80	0.55
	90	0.5
	100	0.5
	110	0.5

Distance from point D on grade = $150 + G$ (Distance on level - 150)



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RAMP TERMINAL LENGTHS

ADJUSTMENT FOR GRADE

Discontinued - Refer to TAC GDG Table 10.6.3
 Grade Factors for
 Speed Change Lanes

RECOMMENDED BY		DIRECTOR DESIGN & TRAFFIC ENG	DATE	2016-03-30	STANDARD PLAN NO	26444
APPROVED BY		EXECUTIVE DIRECTOR TECHNICAL STANDARDS BRANCH	DATE	Apr 8, 2016	SHEET	1 OF 1