

Clear Zone Distances (In feet from edge of driving lane)									
DESIGN SPEED	DESIGN ADT	FILL SLOPES			3:1	CUT SLOPES			
		6:1 or Flatter	5:1 to 4:1	4:1 to 3:1		3:1	4:1 to 5:1	5:1 to 6:1	6:1 or Flatter
40 MPH or LESS	Under 750	7-10	7-10	Traffic Barrier Required		7-10	7-10	7-10	7-10
	750-1500	10-12	12-14			10-12	10-12	10-12	10-12
	1500-6000	12-14	14-16			12-14	12-14	12-14	12-14
	Over 6000	14-16	16-18			14-16	14-16	14-16	14-16
45-50 MPH	Under 750	10-12	12-14			8-10	8-10	10-12	10-12
	750-1500	12-14	16-20			10-12	12-14	14-16	14-16
	1500-6000	16-18	20-26			12-14	14-16	16-18	16-18
	Over 6000	18-20	24-28			14-16	18-20	20-22	20-22
55 MPH	Under 750	12-14	14-18			8-10	10-12	10-12	10-12
	750-1500	16-18	20-24			10-12	14-16	16-18	16-18
	1500-6000	20-22	24-30			14-16	16-18	20-22	20-22
	Over 6000	22-24	26-32			16-18	20-22	22-24	22-24
60 MPH	Under 750	16-18	20-24			10-12	12-14	14-16	14-16
	750-1500	20-24	26-32			12-14	16-18	20-22	20-22
	1500-6000	26-30	32-40			14-18	18-22	24-26	24-26
	Over 6000	30-32	36-44			20-22	24-26	26-28	26-28
65-70 MPH	Under 750	18-20	20-26			10-12	14-16	14-16	14-16
	750-1500	24-26	28-36			12-16	18-20	20-22	20-22
	1500-6000	28-32	34-42			16-20	22-24	26-28	26-28
	Over 6000	30-34	38-46			22-24	26-30	28-30	28-30

NOTE: The numbers apply to tangent sections and are adjusted upward by factors of 1.1 (+3 feet for 30-foot clear zone) to 1.5 (+15 feet for 30-foot clear zone) to reflect varying degrees of horizontal curvature. Source: Roadside Design Guide (1989 ed.) Table 3.1

SPECIFICATION	CATEGORY CODE ITEMS
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL 8-20-03
	REVISED
	REVISED
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 9-23-03
	REVISED
	REVISED

Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES	
GENERAL NOTES	
STANDARD NO.	MD 104.00-15