

ISSUE	APPROVED BY	DATE	AMENDMENT
-	M-SSE	07/2020	SUPERSEDES SD3521 AND SD4311

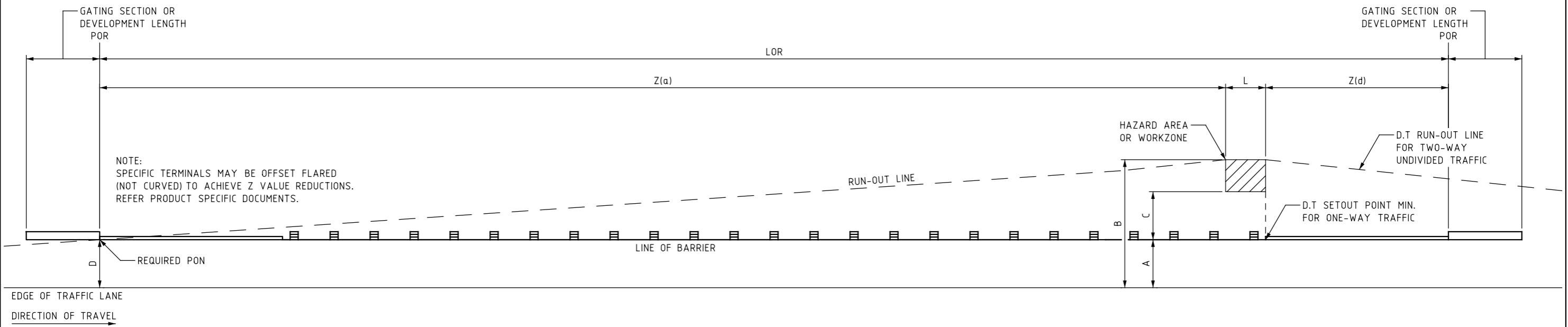


TABLE B - LENGTH "Z" FOR ALL LINE B SAFETY BARRIERS (m) (SEE NOTE 6)

Protected Width "B"	15					14					13					12					11					10					9					8																									
	SPEED (km/h)					SPEED (km/h)					SPEED (km/h)					SPEED (km/h)					SPEED (km/h)					SPEED (km/h)					SPEED (km/h)					SPEED (km/h)																									
"D" PON OFFSET FROM TRAFFIC LANE (m)	0	110	90	80	70	60	50	35	110	90	80	70	60	50	35	110	90	80	70	60	50	35	110	90	80	70	60	50	35	110	90	80	70	60	50	35	110	90	80	70	60	50	35	110	90	80	70	60	50	35	110	90	80	70	60	50	35				
	1	105	85	75	65	55	45	30	100	85	75	65	55	45	30	100	85	75	65	55	45	30	100	85	75	65	55	45	30	100	85	75	65	55	45	30	100	80	75	65	55	45	30	100	80	70	60	55	45	30	95	80	70	60	55	45	30				
	2	95	80	70	60	50	40	30	95	80	70	60	50	40	30	95	75	70	60	50	40	30	90	75	70	60	50	40	30	90	75	65	55	50	40	25	85	70	65	55	45	40	25	85	70	60	55	45	35	25	80	70	60	55	45	35	25				
	3	90	75	65	55	50	40	25	85	70	65	55	45	40	25	85	70	60	55	45	40	25	85	70	60	55	45	35	25	80	65	60	50	45	35	25	75	65	55	50	40	35	25	75	60	55	45	40	35	25	70	55	50	45	40	30	20				
	4	80	65	60	50	45	35	25	80	65	60	50	45	35	25	75	65	55	50	40	35	25	75	60	55	45	40	35	25	70	60	50	45	40	30	20	65	55	50	40	35	30	25	60	50	45	40	35	25	55	45	40	35	30	25	50	40	35	30	25	20
	5	75	60	55	45	40	35	25	70	60	50	45	40	30	20	70	55	50	45	35	30	20	65	55	45	40	35	30	20	60	50	45	40	35	25	20	55	45	40	35	30	25	50	40	35	30	25	20	45	35	30	25	20	40	30	25	20	35	25	20	20
	6	65	55	50	40	35	30	20	65	50	45	40	35	30	20	60	50	45	40	30	25	20	55	45	40	35	30	25	50	40	35	30	25	20	45	35	30	25	20	40	30	25	20	35	25	20	20	30	20	20	20	25	20	20	20						
	7	60	50	45	35	30	25	20	55	45	40	35	30	25	50	40	35	30	25	20	45	40	35	30	25	20	40	35	30	25	20	20	35	25	20	20	20	30	25	20	20	25	20	20	20	20	20	20	20												
	8	50	40	40	35	30	25	45	40	35	30	25	20	40	35	30	25	20	35	30	25	25	20	30	25	20	20	25	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20																		
	9	45	35	30	30	25	20	40	35	30	25	20	35	30	25	20	20	30	25	20	20	25	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20																				
	10	35	30	25	25	20	30	25	25	20	25	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20																							
	11	30	25	20	20	25	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20																									
12	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20																										

Z VALUE

$$Z = \frac{(B-D)}{\left(\frac{B}{Lr}\right)}$$

- NOTES:
- REFER GD6000 SAFETY BARRIER TERMINOLOGY - SHORTHAND AND GENERAL REQUIREMENTS.
 - IN SOME LOCATIONS THE TERRAIN NEAR THE HAZARD CAN BE FLATTENED, ENABLING A "LINE A" (GD6111) SAFETY BARRIER INSTALLATION CLOSE TO THE HAZARD.
 - ALIGNMENT DETAILS IN THIS GUIDELINE DRAWING APPLY TO ALL ACCEPTED LONGITUDINAL SAFETY BARRIER PRODUCTS, UNLESS NOTED OTHERWISE.
 - DETAILS IN THIS DRAWING ARE FOR BARRIERS ON STRAIGHT SECTIONS OF ROAD. "Z" VALUES FOR CURVED SECTIONS OF ROAD SHALL BE DETERMINED IN ACCORDANCE WITH AGRD PART 6.
 - IF THE TERMINAL COULD BE IMPACTED BY OPPOSING TRAFFIC AN APPROVED TERMINAL SHALL BE USED FOR THE DEPARTURE TERMINAL. TRAILING TERMINALS ARE NOT CRASHWORTHY IF IMPACTED FROM THE OPPOSING DIRECTION. REFER SD3544 NOTE 6 AND RDN 06-04.
 - VALUES OF "Z" MAY BE CALCULATED USING THE RUN-OUT LENGTH EQUATION IN TABLE B AND RUN-OUT LENGTH VALUES (Lr) SPECIFIED IN AGRD PART 6.
 - VALUES OF "Z" IN TABLE B ARE MINIMUM LENGTHS BASED ON 5m GUARD FENCE UNIT LENGTHS. "Z" VALUES SHALL BE A MULTIPLE OF THE SAFETY BARRIER UNIT LENGTH AND ROUNDED UP TO SUIT. SEE NOTE 8 FOR OTHER AADT VOLUMES AND TABLE B FOR SPECIFIC CALCULATION OF "Z" VALUES.
 - FOR OTHER AADT VOLUMES, "Z" VALUES IN TABLE B MAY BE MULTIPLIED BY THE AADT FACTOR IN TABLE B AND ROUNDED TO THE CLOSEST WHOLE BARRIER UNIT LENGTH. VALUES CALCULATED USING THE EQUATION IN TABLE B AND Lr ALREADY CONSIDER AADT VOLUMES AND SHALL NOT USE AADT FACTORS IN TABLE B. FUTURE TRAFFIC VOLUMES AT THE SITE SHALL BE CONSIDERED WHEN USING AADT CORRECTION FACTORS IN TABLE B.
 - REDUCED POST SPACING MINIMUM DISTANCES FOR GUARD FENCE AND WRSB, SHALL BE IN ACCORDANCE WITH THE REDUCED POST SPACING DISTANCES FIGURE.

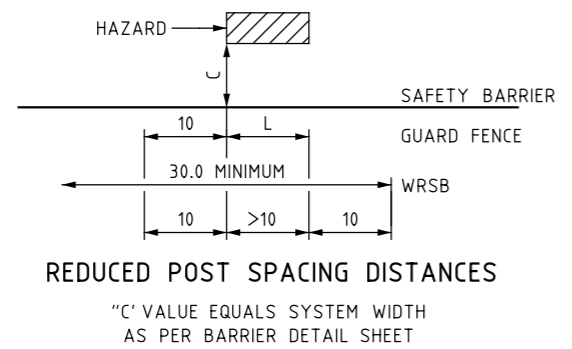


TABLE B - VEHICLES/DAY (AADT) FACTOR

AADT	SPEED						
	110	100	90	80	70	60	50
> 10,000	1.00	1.00	1.00	1.00	1.00	1.00	1.00
5,000 - 10,000	0.92	0.76	0.74	0.73	0.70	0.67	0.54
1,000 - 5,000	0.80	0.64	0.61	0.61	0.60	0.57	0.48
< 1,000	0.69	0.61	0.60	0.58	0.54	0.50	0.42

VicRoads Drawing No. 720426

- NOTES:
- ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE.
 - THIS DRAWING FORMS PART OF THE VRS TO AGRD PART 6 AND SHOULD BE READ IN CONJUNCTION WITH THOSE REFERENCES
 - SAFETY BARRIERS SHALL BE VICROADS ACCEPTED PRODUCTS IN ACCORDANCE WITH RDN 06-04.
 - RUNOUT AREA REQUIREMENTS IN ACCORDANCE WITH GD6211 AND GD6221.

- REFERENCES:
- RDN 06-02 USE OF WIRE ROPE SAFETY BARRIERS
 - RDN 06-04 ACCEPTED SAFETY BARRIER PRODUCTS
 - RDN 06-08 USE OF STEEL GUARD FENCE
 - VICROADS STANDARD DRAWINGS - ROAD SAFETY BARRIERS
 - GD6000 SAFETY BARRIER TERMINOLOGY - SHORTHAND AND GENERAL REQUIREMENTS

- GD6101 SAFETY BARRIER OFFSETS
- GD6211 RUN-OUT AREA DETAILS - G.R.E.A.T.'s
- GD6221 RUN-OUT AREA DETAILS - WRSB TERMINALS



AGRD PART 6
SAFETY BARRIER LENGTH OF NEED
LINE A

NOT TO SCALE	APPROVED M-SSE	07/2020	GD NO. GD6112	ISSUE
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