

ISSUE	APPROVED BY	DATE	AMENDMENT
-	M-SSE	07/2020	SUPERSEDES SD3545 AND SD3571

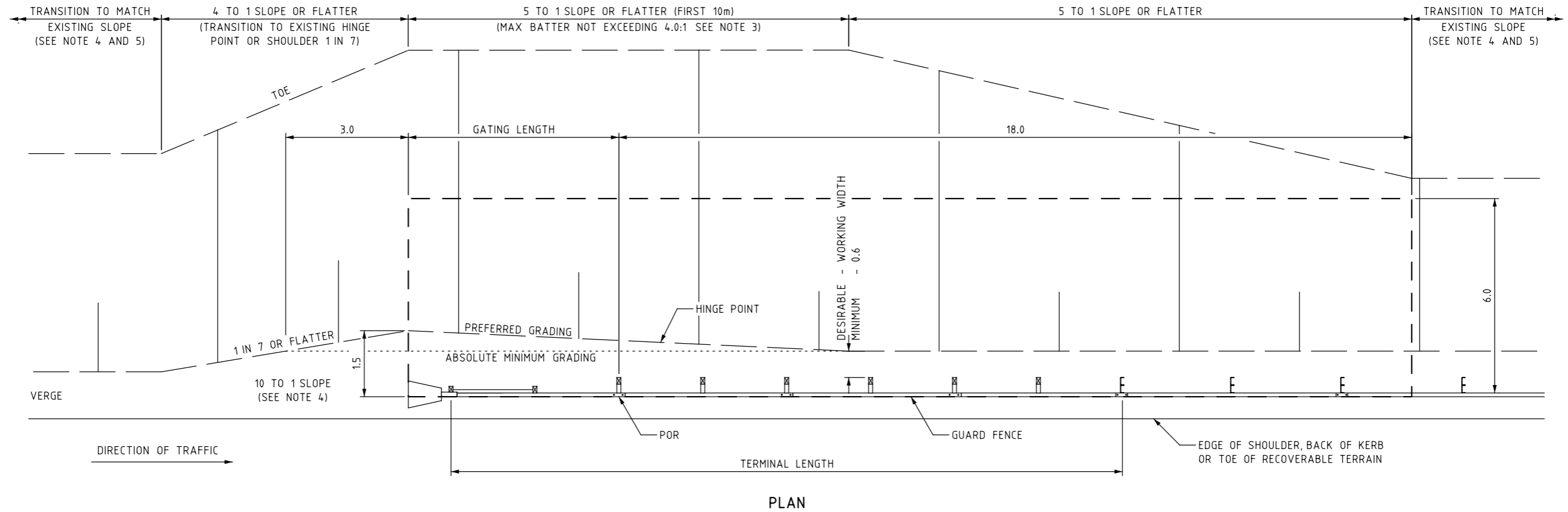
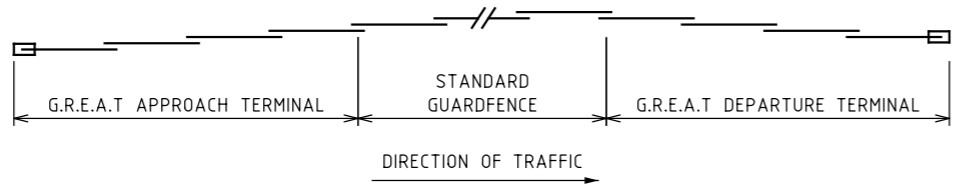


TABLE 1: G.R.E.A.T. BARRIER DIMENSIONS

TERMINAL NAME	GATING LENGTH	TL-3 TERMINAL LENGTH
MSKT	3.81	14.29
ET-SS	3.63	15.48
MAX-TENSION	2.86	16.77

\*REFER TO RDN 06-04 AND PRODUCT DETAIL SHEETS



TERMINAL RAIL OVERLAP CONFIGURATION

NOTES

- A RUNOUT AREA BEGINNING AT THE TERMINAL HEAD AND EXTENDING A MINIMUM OF 18.0m PAST THE TERMINAL POINT OF REDIRECTION (POR) AND 6.0m WIDE SHALL BE PROVIDED BEHIND THE W-BEAM. THIS AREA SHOULD BE REASONABLY TRAVERSABLE AND FREE FROM FIXED-OBJECT HAZARDS TO THE EXTENT PRACTICABLE.
- THE CROSS SLOPE OF THE APPROACH AND RUNOUT AREA PREFERABLY SHOULD BE 10 TO 1 OR FLATTER. THE GRADING DETAILS ON THIS DRAWING ONLY APPLY TO THE SITUATION WHERE THIS IS IMPRACTICAL.
- THE CROSS SLOPE OF THE FIRST 10m (MEASURED PARALLEL TO THE DIRECTION OF TRAFFIC) OF THE RUNOUT AREA IMMEDIATELY BEHIND THE TERMINAL SHOULD BE 5 TO 1 OR FLATTER. IF THIS IS NOT ACHIEVABLE THIS CROSS SLOPE SHOULD BE NO STEEPER THAN 4 TO 1 WITH THE HEIGHT OF BATTER NOT EXCEEDING THE LIMITS OF TABLE 2.
- DESIRABLY, THE CROSS SLOPE OF THE GRADING APPROACHING THE GUARD FENCE TERMINAL AND ADJACENT TO IT FOR ITS FULL LENGTH SHOULD BE 10 TO 1. HOWEVER, IF THE EXISTING CROSS SLOPE IS FLAT OR IS A POSITIVE SLOPE DUE TO THE SUPERELEVATION OF THE ROADWAY PAVEMENT, THE MINIMUM OFFSET OF THE GRADING HINGE POINT BEHIND THE GATING SECTION OF TERMINAL IS ESSENTIAL TO PREVENT SNAGGING OF THE VEHICLE.
- EXISTING SLOPES WHICH CLASSIFY AS HAZARDOUS AS PER AGRD PART 6, MUST BE TREATED IN ACCORDANCE WITH AGRD PART 6 AND RELEVANT VICROADS SUPPLEMENTS.
- THE TRANSITION TO MATCH EXISTING SLOPES SHALL BE AT LEAST THE MINIMUM LENGTH REQUIRED TO PROVIDE A TRAVERSABLE SLOPE IN THE DIRECTION OF TRAFFIC. AGRD PART 6 SPECIFIES A TRAVERSABLE SLOPE IS 6:1 OF FLATTER FOR TRUCKS AND 4:1 OR FLATTER FOR CARS.
- WHERE THE MINIMUM RUNOUT AREA SPECIFIED IN THIS DRAWING IS NOT ACHIEVABLE, CONSIDERATION IN ORDER OF PRECEDENCE SHALL BE GIVEN TO:
  - EXTENDING THE BARRIER UPSTREAM OF THE PROPOSED LOCATION TO ACHIEVE THE MINIMUM RUNOUT AREA.
  - PROVIDING THE MAXIMUM ACHIEVABLE RUNOUT AREA GIVEN EXISTING SITE CONSTRAINTS ALSO SUPPORTED WITH A DOCUMENTED RISK EVALUATION; OR
  - THE AREA SHOULD AT LEAST BE SIMILAR IN CHARACTER TO THE ADJACENT UNSHIELDED ROADSIDE AREA, SUPPORTED WITH A DOCUMENTED RISK EVALUATION.
- 'FLARED' TERMINALS SHALL BE INSTALLED AS A STRAIGHT ALIGNMENT AND OFFSET BUT NOT CURVED OVER THE LENGTH OF THE TERMINAL.
- ONLY TERMINALS THAT ARE APPROVED BY VICROADS AND LISTED IN RDN 06-04 SHALL BE USED. TABLE 1 BASED ON VALUES FROM DETAIL SHEETS.
- WHERE SPECIFIED OR SHOWN ON THE DRAWINGS, MAINTENANCE STRIPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SD3503 AND SECTION 708. PARTICULAR ATTENTION SHALL BE PAID TO ENSURE THAT ANY ABOVE GROUND LEVEL MOVING COMPONENTS SUCH AS GROUND STRUTS OR CABLES OR NOT RESTRICTED FROM FUNCTIONING BY CONCRETE PLACEMENT.

VicRoads Drawing No. 7204-27

- 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 BARRIER SHALL BE VICROADS ACCEPTED PRODUCTS IN ACCORDANCE WITH RDN 06-04.

- REFERENCES:
- |                 |  |
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| GD6000          | TERMINOLOGY, SHORTHAND AND GENERAL REQUIREMENTS    |
| GD6111 & GD6112 | SAFETY BARRIER ALIGNMENT DETAILS (LINE A & LINE B) |
| RDN 06-04       | VICROADS ACCEPTED SAFETY BARRIER PRODUCTS          |
| RDN 06-08       | USE OF STEEL GUARD FENCE                           |
| AASHTO 2011     | ROADSIDE DESIGN GUIDE                              |



**AGRD PART 6**  
**RUN OUT AREA DETAILS**  
**GATING REDIRECTIVE ENERGY ABSORBING**  
**TERMINALS (G.R.E.A.T.)**

NOT TO SCALE	APPROVED M-SSE	07/2020	GD NO. <b>GD6211</b>	ISSUE
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