

CONCRETE BARRIER INSTALLATION MUST NOT DEVIATE FROM THE DESIGN ALIGNMENT BY MORE THAN ±20mm AT ANY POINT AND THE HEIGHT MUST NOT DEVIATE FROM THE DESIGN HEIGHT BY MORE THAN ±20mm AT ANY POINT. FOR PRECAST, THE SEPARATION BETWEEN ADJACENT BARRIER UNITS MUST BE 10mm ±5mm.

CONCRETE BARRIERS MUST AVOID 'LOAD TRANSFER' INTO OBJECTS SUCH AS RETAINING WALLS AND BRIDGE PIERS. OTHERWISE, CONCRETE BARRIERS MUST BE PLACED ON STRUCTURALLY DESIGNED REINFORCED CONCRETE FOOTING/PILES, AND REQUIRE A FULL STRENGTH, MOMENT AND SHEAR CONNECTION WITH THE FOOTING IN ACCORDANCE WITH AS5100 AND VICROADS BRIDGE TECHNICAL NOTES.

RESIST THE LATERAL LOADS AT THE EFFECTIVE LOAD HEIGHT, SPECIFIED IN AS5100.2-DESIGN LOADS, FOR A DYNAMIC IMPACT.

BARRIERS ERECTED ON A SUPERELEVATED ROADWAY SHALL CONFORM WITH THE REQUIREMENTS OF AUSTROADS GUIDE TO

IN-FILL CAN BE PROVIDED BETWEEN CONCRETE BARRIERS AND CUT BATTERS FOR STRENGTH AND MAINTENANCE REASONS. BARRIER INSTALLATION DESIGN TO INCLUDE TYPE OF BACKFILL AND PROVISION FOR DRAINAGE.

MEDIAN BARRIER FOR SPLIT LEVEL CARRIAGEWAYS, GREATER THAN 600mm, REQUIRE A SITE SPECIFIC INSTALLATION DESIGN IN ACCORDANCE WITH AS5100.

AFTER BARRIER INSTALLATION, LIFTING ANCHORS RECESSES IN PRECAST BARRIERS MUST BE FILLED WITH AN APPROVED POLYMER MODIFIED CEMENTITIOUS REPAIR MORTAR IN ACCORDANCE WITH SECTION 689 OF VICROADS SPECIFICATIONS.

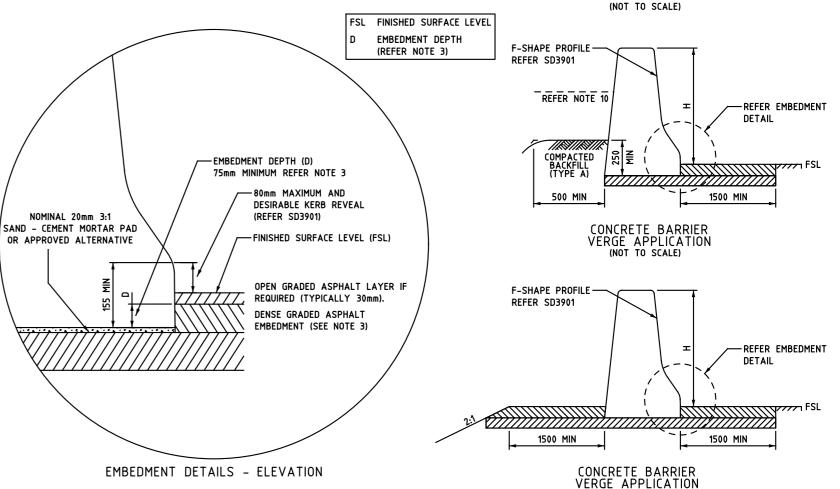
# CONNECTIONS AND TRANSITIONS:

ROAD DESIGN PART 6.

- PRECAST CONCRETE BARRIERS MUST HAVE CONNECTIONS/JOINTS AT 6000mm INTERVALS UNLESS SPECIFIED OR OTHERWISE APPROVED BY VICROADS. SLIP FORM CONCRETE BARRIERS MUST HAVE EXPANSION AND CONTRACTION JOINTS IN ACCORDANCE
- PRECAST CONCRETE BARRIERS MUST BE CONNECTED USING A PIN AND LOOP CONNECTION OR AN APPROVED ALTERNATIVE IN ACCORDANCE WITH SD3904. GAPS BETWEEN PERMANENT PRECAST CONCRETE BARRIER UNITS MUST BE GROUTED WITH A SUITABLE GROUTING MATERIAL AS SPECIFIED IN CLAUSE 610.33 OF VICROADS SPECIFICATION.
- BARRIER TRANSITIONS TYPICALLY OCCUR OVER A 6m UNIT LENGTH FOR PRECAST BARRIERS. BARRIER HEIGHT TRANSITIONS UP OR DOWN MUST OCCUR AT A RATE NOT EXCEEDING 15H:1V. TRANSITIONS BETWEEN BARRIERS OF A DIFFERENT SHAPE MUST BE APPROVED PRIOR TO USE, BY THE DEPARTMENT OF TRANSPORT, AND MUST PROVIDE SMOOTH REDIRECTION (AT A RATE NOT EXCEEDING 15H:1V) AND PREVENT SNAGGING OR RAMPING.

CONCRETE BARRIER TERMINATIONS THAT CAN BE IMPACTED SHOULD BE CRASHWORTHY USING AN ACCEPTED SAFETY PRODUCT SUCH AS A CRASH CUSHION OR AN APPROVED BARRIER TRANSITION (e.g. SD3951 TO SD3955).

- PERFORMANCE LEVEL BARRIERS MUST BE DESIGNED TO FULLY COMPLY WITH THE REQUIREMENTS OF AS5100 IRRESPECTIVE OF THESE DRAWINGS
- FOR THE DESIGN OF PERFORMANCE LEVEL BARRIERS, NO CONSIDERATION SHALL BE MADE OF TEST LEVELS OR THE IMPLIED EQUIVALENCE OF TEST LEVELS TO PERFORMANCE LEVELS THAT IS GIVEN IN TABLE 14.4 OF ASS100.1, AS PER BRIDGE TECHNICAL NOTE BTN001.



1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

## DISCLAIMER

THIS DRAWING DOES NOT COVER PERFORMANCE LEVEL BARRIERS WHICH SHALL BE DESIGNED TO FULLY COMPLY WITH THE REQUIREMENTS OF AS5100 IRRESPECTIVE OF THIS DRAWING

ROAD AND TRAFFIC DESIGN SAFE SYSTE

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**ROAD SAFETY BARRIERS** 

(NOT TO SCALE)

CONCRETE BARRIER F-SHAPE INSTALLATION

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