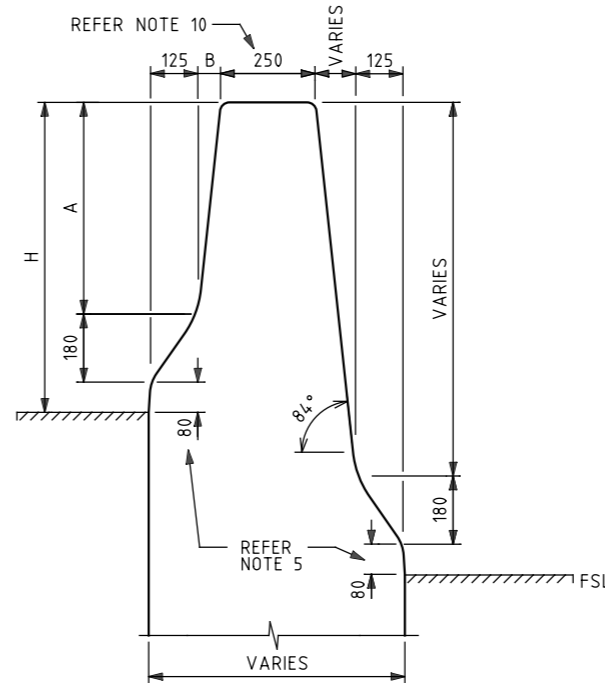


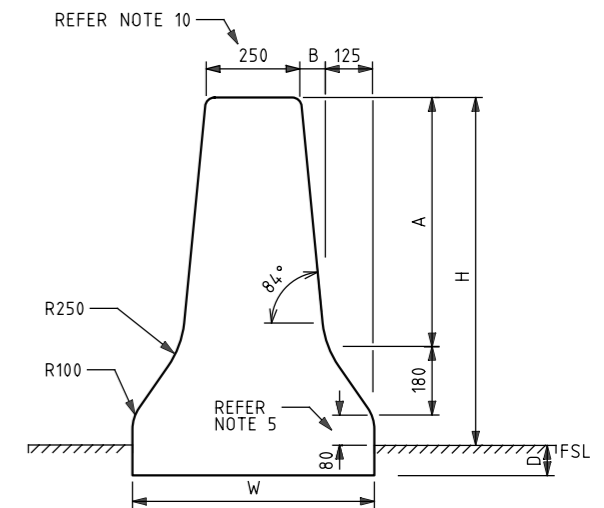
ISSUE	APPROVED BY	DATE	AMENDMENT
H	M-SSE	03/19	FORMATTING AND MINOR AMENDMENTS

TEST LEVEL	H	A	B	W	COMMENTS
TL-3 MASH	820	560	59*	617*	TEST LEVEL SHOULD BE CLEARLY SPECIFIED IN THE CONTRACT DOCUMENTS (INC. DRAWINGS)
TL-4 MASH	920	660	69*	638*	
TL-5 MASH	1100	840	88*	676*	* REFER NOTE 3

TABLE A: BARRIER DIMENSIONS AND F-SHAPE TEST LEVELS



F-SHAPE MEDIAN BARRIER FOR SPLIT LEVEL CARRIAGEWAYS (MAXIMUM SPLIT 600mm)



F-SHAPE MEDIAN BARRIER

FSL FINISHED SURFACE LEVEL  
D EMBEDMENT DEPTH (REFER SD3902)

SHAPE / PROFILE:

- F-SHAPE PROFILE IS THE SHAPE FOR ALL CONCRETE BARRIERS UNLESS SPECIFIED OTHERWISE. THE F-SHAPE PROFILE IS CRITICAL FOR VEHICLE PERFORMANCE AND MUST BE RETAINED AT ALL TIMES. ACCEPTABLE VARIATIONS INCLUDE; INCREASING THE UPPER BARRIER FACE HEIGHT (SEE NOTE 2 & 3), MODIFICATION FOR SWAY PROTECTION (SEE NOTE 4) AND COMPROMISE TO THE KERB REVEAL (SEE NOTE 5). NO OTHER VARIATIONS TO SHAPE OR DIMENSIONS ARE ALLOWED UNLESS THEY HAVE BEEN SPECIFIED OR ACCEPTED BY VICROADS.
- BARRIER HEIGHTS (H) ARE STANDARDISED AND BASED ON THE BARRIER TEST LEVEL REQUIRED OR AS SPECIFIED ON THE DESIGN PLANS. REFER 'TABLE A' FOR THE MINIMUM HEIGHT (H) OF EACH TEST LEVEL.
- UPPER BARRIER FACE MUST BE A NOMINAL 84° (DEGREES) FOR ALL BARRIER HEIGHTS, AS SHOWN. WHILE CONSTRUCTION TOLERANCES ARE ACCEPTABLE, IN ACCORDANCE WITH VICROADS SECTION 610, THE SLOPE MUST BE CONSISTENT BETWEEN CONNECTING UNITS (i.e. A CONSTANT MOULD SHOULD BE USED).
- MODIFICATIONS FOR SWAY PROTECTION MUST NOT PROTRUDE MORE THAN 30mm, AS SHOWN, AND MUST COMMENCE 920mm OR HIGHER ABOVE THE FINISHED SURFACE LEVEL.
- HEIGHT OF KERB REVEAL ABOVE FINISHED SURFACE LEVEL MUST BE 80mm NOMINAL +0/-20mm AFTER INSTALLATION. HEIGHTS BETWEEN 80mm-20mm MUST PROVIDE REASONABLE JUSTIFICATION AND BE ACCEPTED BY VICROADS.
- CHAMFERS ARE TO BE 15x15mm OR A 25mm RADIUS.
- TRANSITIONS BETWEEN BARRIER HEIGHT AND BARRIER WIDTHS MUST NOT EXCEED 15:1. THIS SHOULD OCCUR OVER A MINIMUM OF ONE 6m BARRIER UNIT.

INSTALLATION AND CONSTRUCTION:

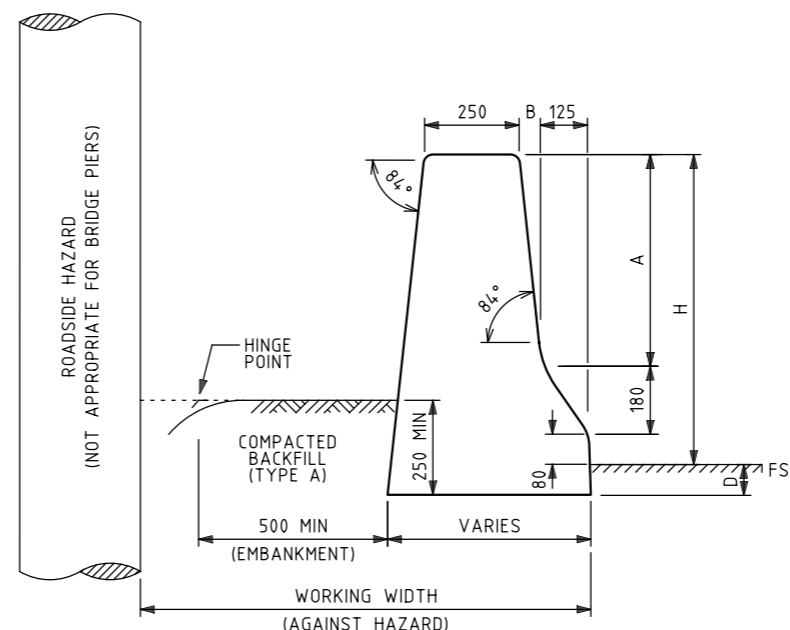
- CONCRETE BARRIERS MUST BE ADEQUATELY INSTALLED, IN ACCORDANCE WITH SD3902. CONCRETE BARRIER CONSTRUCTION TO BE IN ACCORDANCE WITH SD3903 AND SD3904.

LIGHTING:

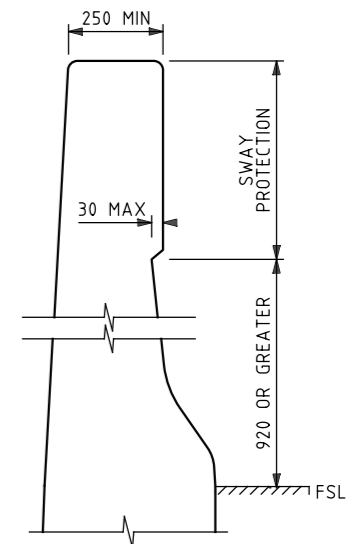
- ALL LIGHTING, COMMUNICATIONS, ELECTRICAL JUNCTION BOXES MUST BE INTEGRATED INTO THE UPPER BARRIER FACE SUCH THAT THEY DO NOT COMPROMISE THE F-SHAPE BARRIER PERFORMANCE.
- WHERE A LIGHTING SCHEME OR FENCE IS PROPOSED TO BE INSTALLED IN A MEDIAN APPLICATION OF THE BARRIER, A 350mm WIDE TOP-WIDTH BARRIER MUST BE USED (IN EACH CASE A SPECIAL INSTALLATION AND CONSTRUCTION WILL BE REQUIRED).

PERFORMANCE LEVEL BARRIERS:

- 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 AS5100.1, AS PER BRIDGE TECHNICAL NOTE BTN001.



F-SHAPE VERGE BARRIER ON EMBANKMENT OR ADJACENT TO HAZARD



MODIFICATION FOR SWAY PROTECTION (NOTE 4)

VicRoads Drawing No. 720376

REFERENCES AND NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS 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 THESE DRAWINGS

ROAD AND TRAFFIC DESIGN

MANAGER  
SAFE SYSTEM  
ENGINEERING

60 DENMARK STREET  
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PHONE (03) 9854 2666



**ROAD SAFETY BARRIERS**  
CONCRETE BARRIERS - F-SHAPE  
PROFILE

NOT TO SCALE	APPROVED M-SSE	02/2019	SD NO. SD3901	ISSUE H
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