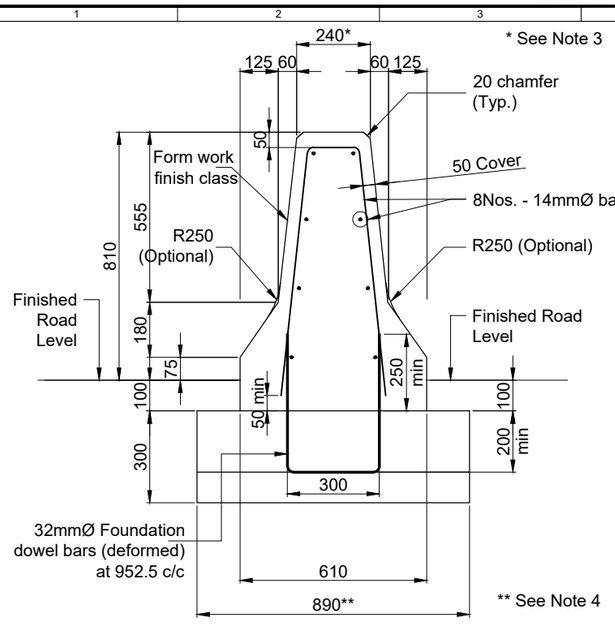
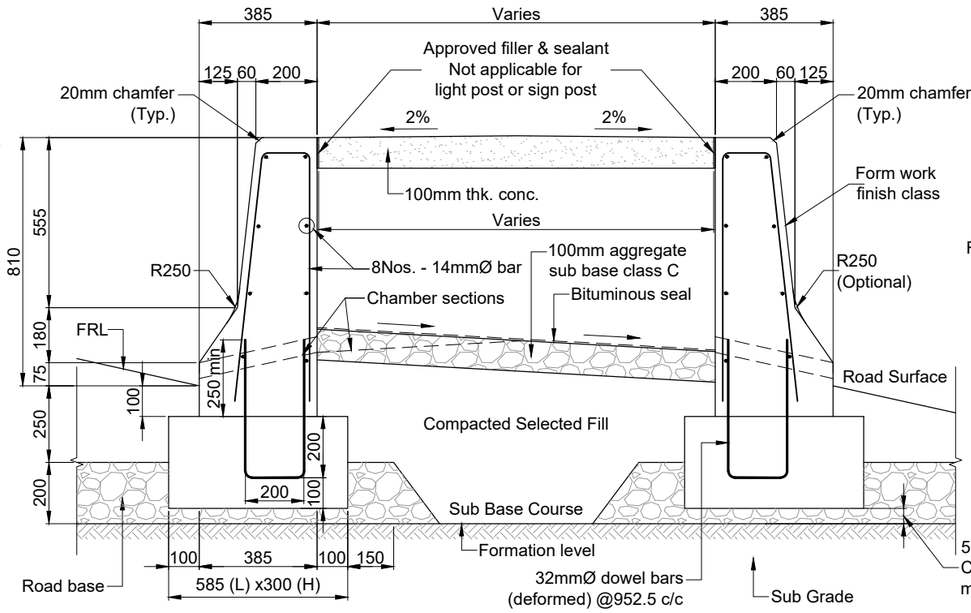
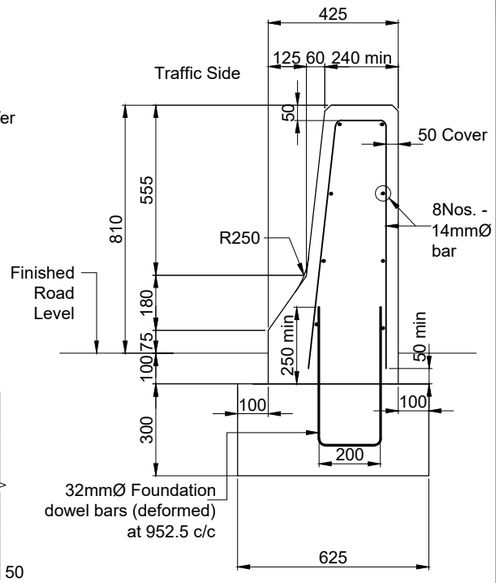


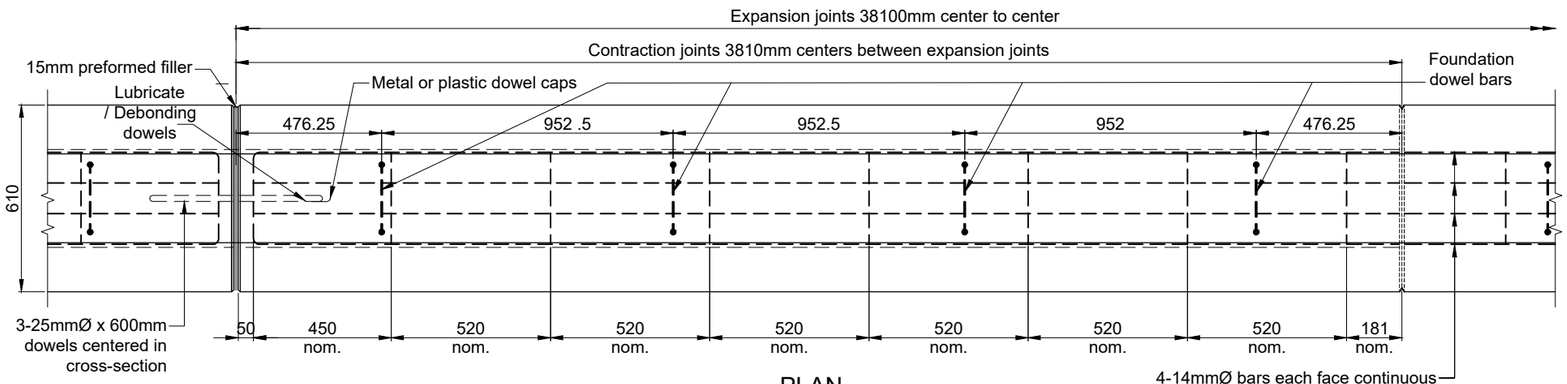
NARROW MEDIAN BARRIER



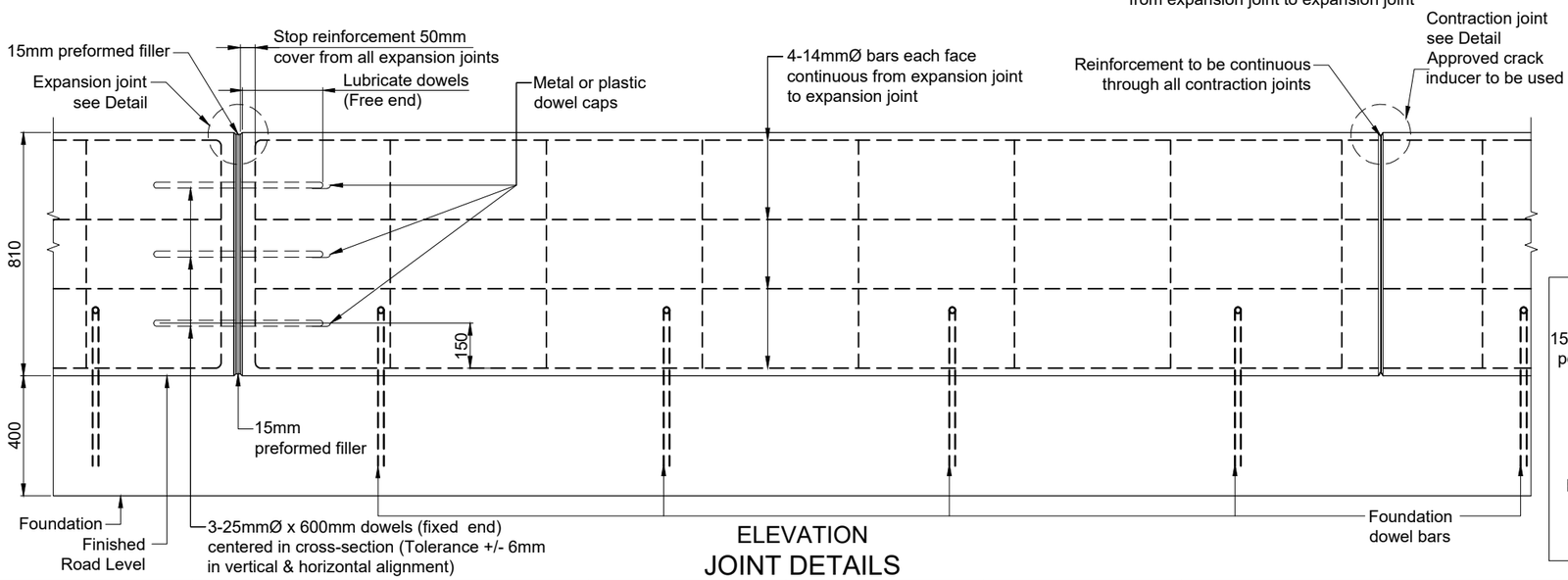
WIDE MEDIAN BARRIER WITH INFILL



SHOULDER BARRIER

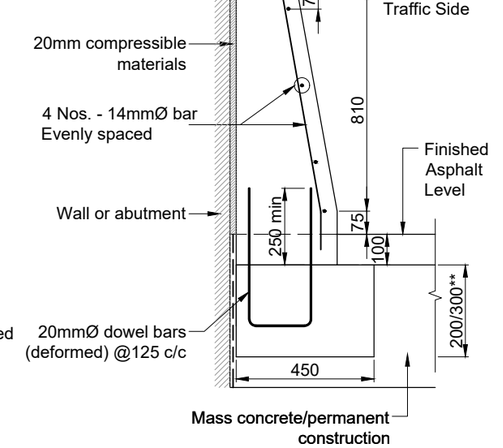


PLAN

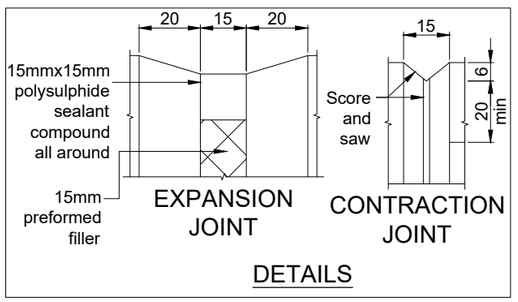


ELEVATION
JOINT DETAILS

**Subject to space availability



UNDERPASS
WALL BARRIER PROTECTION



DETAILS

NOTES:

1. All dimensions are in millimeters unless otherwise noted.
2. All Concrete to be Class 40/20 as per QCS.
3. The top width of the median/shoulder barrier shall be 200mm (min) to 640mm (max).
4. The foundation width shall be 850mm (min) to 1300mm (max).
5. The top width of the wall barrier shall be a 200mm (typical) or 100mm (min).
6. Expansion joints for all median and shoulder barriers must be fitted with dowel connections as shown.
7. Barrier reinforcement must be extended through contraction joints and stop 50mm from all expansion joints.
8. Dowel bar shall be hot-dip galvanized after fabrication.
9. Concrete median barrier is an acceptable alternative to shoulder barrier.
10. Concrete barrier ends that could potentially be hit head on must be treated with an approved end terminal/crash cushion with an approved transition as appropriate. Refer to the Ashghal List of Acceptable Barrier Systems for further details.
11. This standard detail is intended for roads only - bridge abutments require specific design detail.
12. Clear concrete cover to any reinforcement shall not be less than 50mm.
13. Reinforcement shall be deformed round steel bars Type 2, Grade B500B or B500C conforming to BS EN 10080 and BS 4449. Reinforcement shall be cut and bent in accordance with BS8666.

Rev.	Date	Revision Details	Drawn	Chkd.	Appd.
C	01-08-16	ISSUED FOR APPROVAL	MS		
B	08-11-15	ISSUED FOR APPROVAL	SR		
A	18-08-15	ISSUED FOR APPROVAL	MV		

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Fax: 00974 44950999
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QCS Section:
Section 6 - Road Works
Part 10 - Vehicle Crash Barriers

Drawing Title:
TL 4 CONCRETE BARRIER DETAILS CAST IN PLACE - PERMANENT

Drawn: MV	Checked: -
Designed: -	Approved: -
Date: AUG 2015	Scale: 1:10
Drawing Number: SD 6-10-2001	Revision: C

Plot Date: 2/4/2021 9:47:03 AM Login: Theocharis Travelas, Ashghal C:\Users\tds. \Theocharis\Desktop\Amending STD\from IA to PAV2007\2020 Roads STDs\Section 6 - Road Works\Part 10 - Vehicle Crash Barriers\15-QM-SD-VRS-003 C.dwg