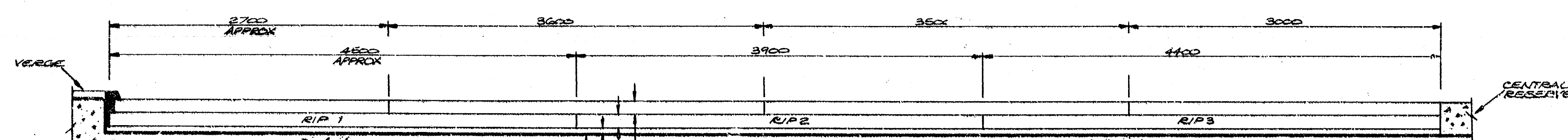


1 FOR FURTHER INFORMATION, REFER TO NON-CONFORMANCE REPORT NOS 2355, 2357, 2392, 2393 & 2394.



SCHEMATIC SECTION THROUGH VIADUCT SURFACING
(SECTION THROUGH SHOOTS BRIDGE SURFACING SIMILAR BUT GENERALLY BASECOURSE/REGULATING IS NOT PRESENT)

Viaduct Surfacing

The designed surfacing thicknesses on the viaducts were:

- 3 mm thick waterproofing membrane
- 20 mm thick red sand asphalt protective layer
- 50 mm thick 20 mm HDM basecourse
- 50 mm thick HRA wearing course

On completion of the structural work the surface concrete levels were taken and a revised vertical alignment for the crossing was established (detailed on the SAL/E/... series drawings) to suit the as constructed viaducts. Local variations in concrete levels meant that a variable thickness of surfacing was required. This was accommodated by introducing a regulating layer of 55/10 HRA wearing course in lieu of the 20 mm HDM where the basecourse layer thickness was reduced below approximately 30 mm. Table 1 details the locations in which the HDM was replaced by 55/10 HRA. Elsewhere on the viaducts HDM basecourse (of varying thickness) was used.

The 55/10 HRA material was shown to have a stability of 12.5 kN with a flow of 2.3 mm.

Main Bridge Surfacing

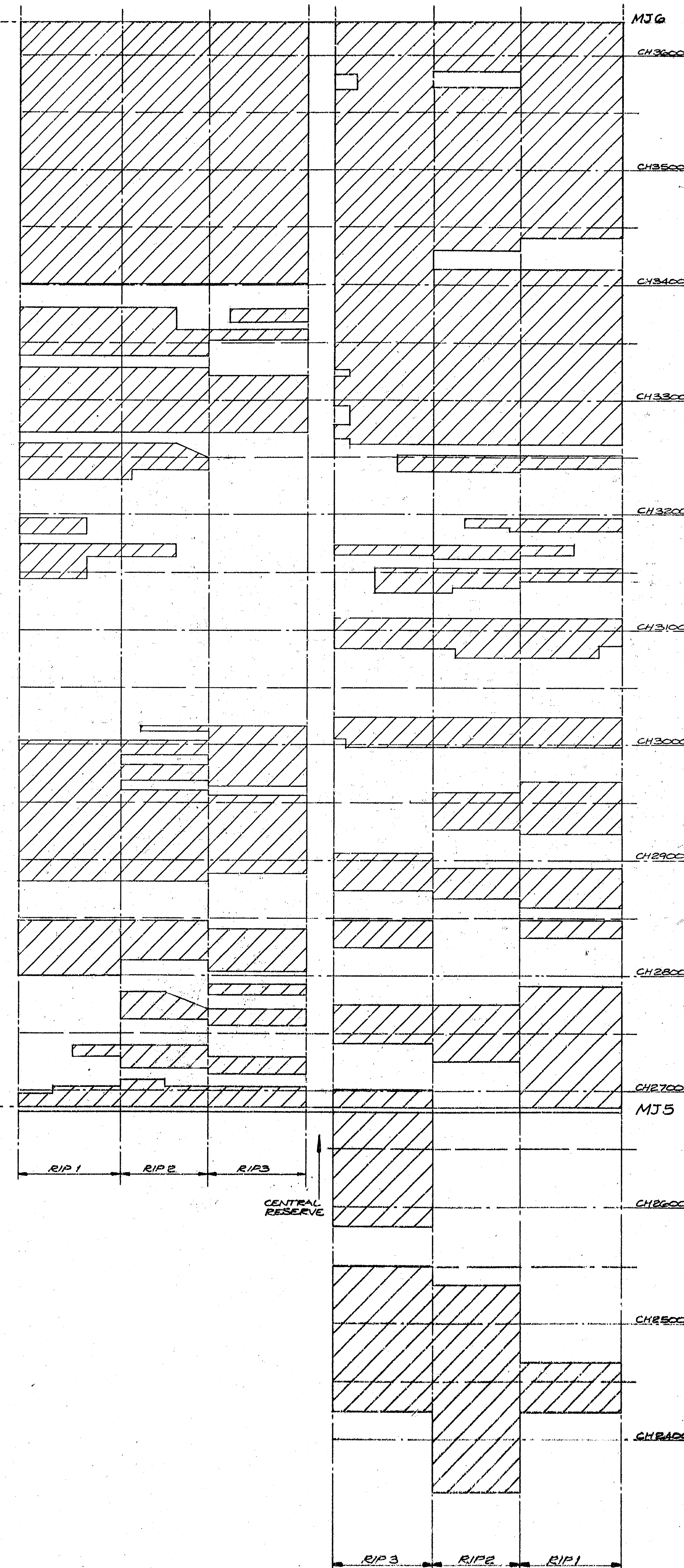
The designed surfacing thicknesses for the Main Bridge were:

- 3 mm thick waterproofing membrane
- 20 mm thick sand asphalt protective layer
- 50 mm thick HRA wearing course

As with the viaducts, due to the as constructed levels, a revised vertical alignment was produced and the total surfacing thickness varied locally across the structure accordingly (see SAL/E/... series drawings).

In locations where the thickness of wearing course required was greater than about 65 mm a regulating layer of the 55/10 HRA was introduced and where greater than about 80 mm the regulating material was changed to the 20 mm HDM basecourse.

Table 2 details the location of the various regulating layers that were required.



REGULATING AREAS TO MAIN BRIDGE
(SCALE H1:100 V1:2000)

REV	DATE	DRAWN	VER	AMENDMENT	STATUS	CHECKER
1	24/06/03	SGN	1	AS BUILT DRAWING	ABD	
Severn River Crossing Plc						
SECOND SEVERN CROSSING						
DRAWING TITLE VIADUCT & MAIN BRIDGE ROAD SURFACING - REGULATING LAYER						
HALCROW						Originator's Drawing No.
Drawn: DJS						Scale
Date: 2/4/96						
Checked: CHM						
Approved: CHM						
Drawing Number SGN/E/1102						Rev.

SGN/E/1102