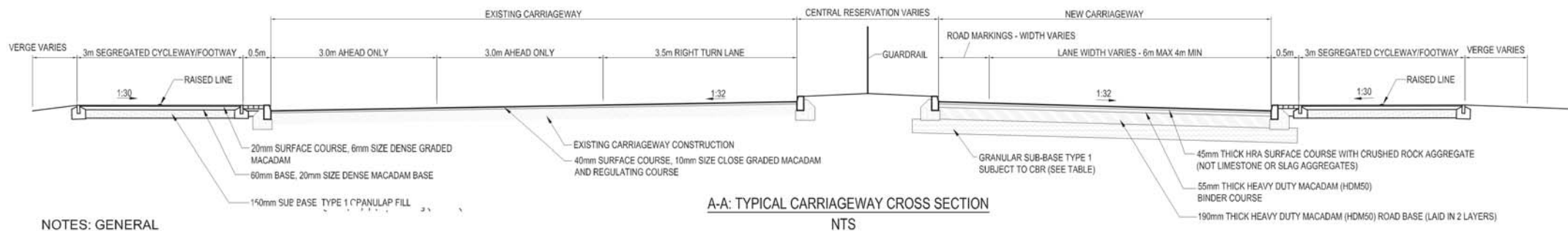


GENERAL ARRANGEMENT - A48 WESTERN SECTION
SCALE 1:1000



A-A: TYPICAL CARRIAGEWAY CROSS SECTION
NTS

PAVEMENT CONSTRUCTION DETAILS

Pavement Construction Group A - (Full Construction)

- 45mm THICK HRA SURFACE COURSE WITH CRUSHED ROCK AGGREGATE (NOT LIMESTONE OR SLAG AGGREGATES).
- 55mm THICK HEAVY DUTY MACADAM (HDM50) BINDER COURSE.
- 190mm THICK HEAVY DUTY MACADAM (HDM50) ROAD BASE (LAID IN 2 LAYERS)
- 160mm THICK GRANULAR SUB-BASE TYPE 1; CLAUSE 803 TABLE 8/2 IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS, INCLUDING RESIDUAL WEED CONTROL GRANULES.
- PAVEMENT THICKNESS ASSUMES A CBR VALUE GREATER THAN 15%. FOR CBR VALUES BELOW 15% ADDITIONAL SUBBASE AND/OR CAPPING LAYER (MINIMUM CLASS 6F1, 6F2 OR 6F3 MATERIAL TABLE 6/1 OF THE SHW 1993) AND GEOTEXTILE (TERRAM 2000) TO BE PROVIDED.

Pavement Construction Group B - (Overlay)

- SEE OVERLAY NOTES AND PAVEMENT OVERLAY DETAIL.

Footway Construction - Type C

- 20mm CONSOLIDATED THICKNESS OF MEDIUM GRADED SURFACE COURSE COMPLYING WITH CLAUSE 7.6 BS 4987; PART 1 2003, 6mm NOMINAL SIZE AGGREGATE, 190 PEN BINDER TO BS EN 12591:2000
- 50mm CONSOLIDATED THICKNESS OF DENSE MACADAM BINDER COURSE COMPLYING WITH CLAUSE 6.5 BS 4987; PART 1 2003, 20mm NOMINAL SIZE AGGREGATE, 125 PEN BINDER TO BS EN 12591:2000 AND IN ACCORDANCE WITH CLAUSE 906 OF SPECIFICATION FOR HIGHWAY WORKS 2002.
- 100mm THICK MINIMUM OF GRANULAR SUB-BASE MATERIAL TYPE 1 COMPLYING WITH CLAUSE 803 OF THE SPECIFICATION FOR HIGHWAY WORKS 2002 INCLUDING REDIDUAL WEED CONTROL GRANULES.

Footway Construction - Type D (VEHICULAR CROSSINGS)

- 20mm CONSOLIDATED THICKNESS OF MEDIUM GRADED SURFACE COURSE COMPLYING WITH CLAUSE 7.6 BS 4987; PART 1 2003, 6mm NOMINAL SIZE AGGREGATE, 190 PEN BINDER TO BS EN 12591:2000
- 50mm CONSOLIDATED THICKNESS OF DENSE MACADAM BINDER COURSE COMPLYING WITH CLAUSE 6.5 BS 4987; PART 1 2003, 20mm NOMINAL SIZE AGGREGATE, 125 PEN BINDER TO BS EN 12591:2000 AND IN ACCORDANCE WITH CLAUSE 906 OF SPECIFICATION FOR HIGHWAY WORKS 2002.
- 150mm THICK MINIMUM OF GRANULAR SUB-BASE MATERIAL TYPE 1 COMPLYING WITH CLAUSE 803 OF THE SPECIFICATION FOR HIGHWAY WORKS 2002 INCLUDING REDIDUAL WEED CONTROL GRANULES.

Footway Construction - Type E (MODULAR TACTILE PAVING)

- 400x400x50mm MODULAR TACTILE PAVIOURS, COLOUR - BUFF OR RED AS INDICATED, TO BS 7263; PART 1 2001 - TABLE 3 30mm 1:3 CEMENT / SAND MORTAR BEDDING 100mm THICKNESS GRANULAR SUB-BASE TYPE 1; TABLE 8/2 IN ACCORDANCE WITH SHW CLAUSE 803.

NOTES: GENERAL

- ALL DIMENSIONS ARE IN METRES UNLESS INDICATED OTHERWISE.
- ALL LEVELS ARE IN mAOD.
- FOR NOTES REFER TO DRAWING Nos. CD V-C7811/202 & 203.
- FOR DETAILS REFER TO DRAWINGS CD-V-C7811-204.

PAVEMENT NOTES

- CBR TESTS TO BE CARRIED OUT AT FORMATION LEVEL AT 25m CENTRES.
- LIMESTONE OR BLAST FURNACE SLAG AGGREGATE WILL NOT BE PERMITTED IN THE SURFACE COURSE.
- 40mm AGGREGATE WILL NOT BE PERMITTED IN THE BINDER COURSE.
- MINIMUM CROSSFALL ON NEW AND RECONSTRUCTED FOOTWAY TO BE 1:30 (FALL IN DIRECTION OF ROAD / PLANTING AREA).
- PAVEMENT CONSTRUCTION DEPENDENT ON CBR AS TABLE BELOW:

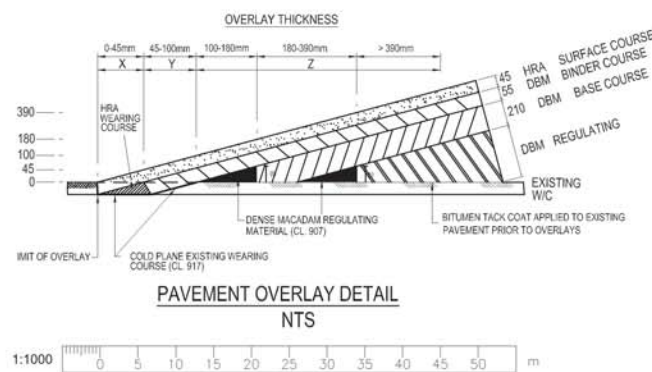
CBR	MINIMUM THICKNESS (mm)	
	CAPPING LAYER SEEK ADVICE	SUB BASE SEEK ADVICE
LESS THAN 2%		
2%-3% (i)	260	380
(ii)	0	480
3%-4% (i)	240	270
(ii)	0	420
4%-5% (i)	220	250
(ii)	0	360
5-10% (i)	210	220
(ii)	0	325
10%-15% (i)	170	180
(ii)	0	240
>15% (i)	160	150
(ii)	0	200

* CAPPING LAYER MATERIAL SHALL BE AT A MINIMUM CLASS 6F1 OR 6F2 MATERIAL AS SPECIFIED IN TABLE 6/1 OF THE SPECIFICATION FOR HIGHWAY WORKS.

PAVEMENT - OVERLAY NOTES

- THE EXISTING CARRIAGEWAY MAY BE OVERLAYED TO ACHIEVE THE PROPOSED LEVELS AS FOLLOWS:

OVERLAY THICKNESS	MATERIAL
0 mm - 45 mm	PAVEMENT TYPE 'X' - COLD PLANE EXISTING PAVEMENT AND RESURFACE WITH 45mm HRA SURFACE COURSE AND REGULATING HRA SURFACE COURSE.
45 mm - 100 mm	PAVEMENT TYPE 'Y' - COLD PLANE EXISTING CARRIAGEWAY AND OVERLAY WITH MAXIMUM 55mm BINDER COURSE AND 45mm HRA SURFACE COURSE.
100 mm - 180 mm	PAVEMENT TYPE 'Z' - REGULATE WITH DENSE MACADAM AND OVERLAY WITH 55mm BINDER COURSE AND 45mm HRA SURFACE COURSE.
180 mm - 390 mm	PAVEMENT TYPE 'Z' - REGULATE WITH DENSE MACADAM AND OVERLAY WITH BASE COURSE (IN MAX. LAYERS OF 150mm) 55mm BINDER COURSE AND 45mm SURFACE COURSE.
> 390 mm	PAVEMENT TYPE 'Z' - REGULATE WITH DENSE MACADAM BASE COURSE (IN MAX. LAYERS OF 150mm) AND OVERLAY WITH 55mm BINDER COURSE AND 45mm SURFACE COURSE.
- PRIOR TO OVERLAYING THE EXISTING PAVEMENT SHALL BE CLEANED AND HAVE A TACK COAT APPLIED. THE TACK COAT SHALL BE CATIONIC BITUMEN EMULSION COMPLYING WITH BS434; PART 1.
- PAVEMENT LAYER THICKNESSES AND SPECIFICATION TO BE AS CARRIAGEWAY PAVEMENT DESIGN.



PAVEMENT OVERLAY DETAIL
NTS

GRAPHIC SCALES

Legend

	Pedestrian signals	MB	Mini Beany Marshalls 235
	Traffic signal bi-lingual pushbutton	SP	Spayed kerb
	Three aspect (primary) signal head		
	Double traffic light		

Produced by:

Cardiff Office
 Unit 3 Fountain Court,
 Fountain Lane, St Mellons,
 Cardiff, CF3 0FB
OPUS
 Tel: +44 (0)29 2077 7373
 Fax: +44 (0)29 2036 3797

Scale @ A3: As shown

IslandFarm
 BRIDGEND'S SPORTING CHANCE

Fig 14 General Arrangement & Typical Cross Section - Sheet 1 of 4