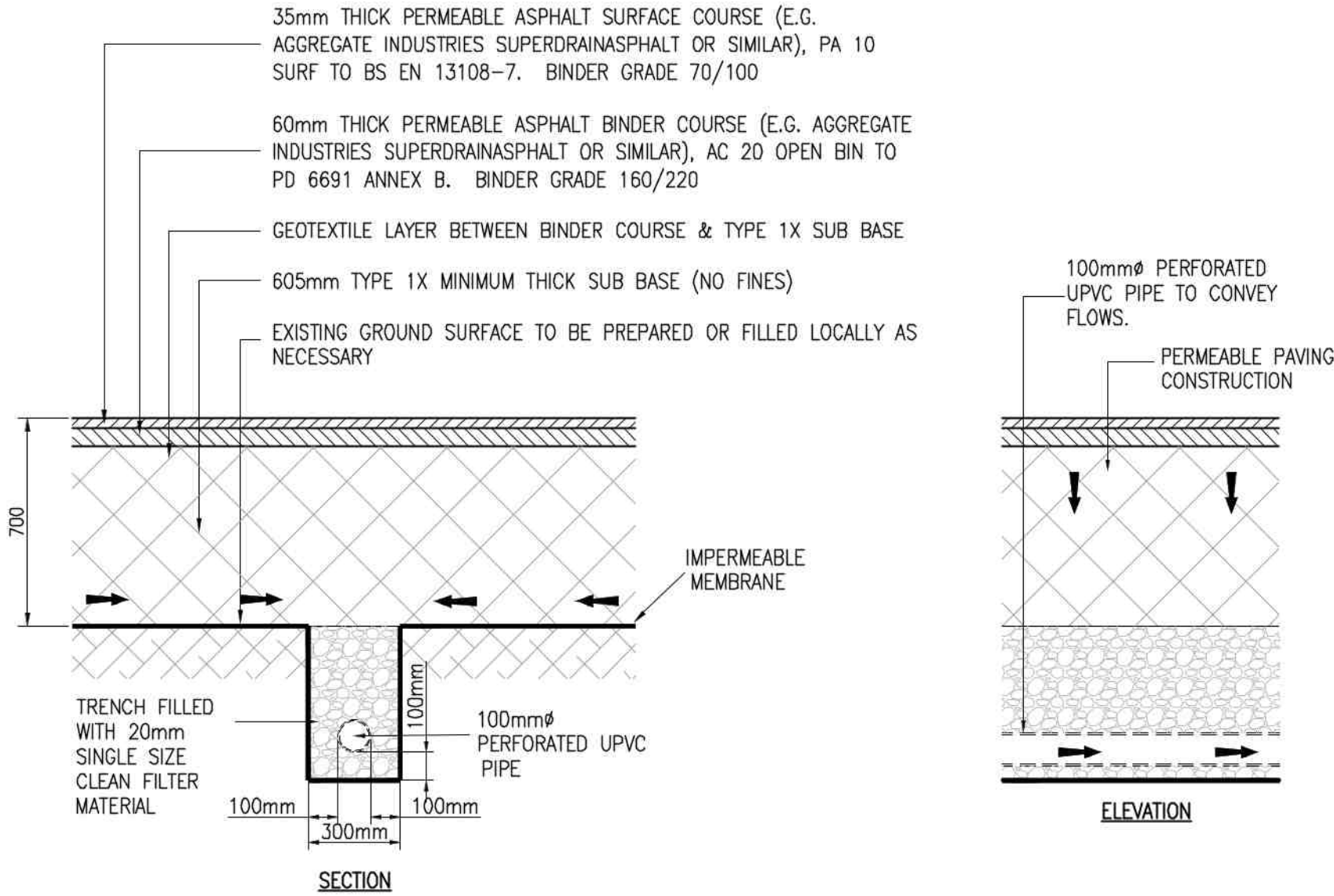
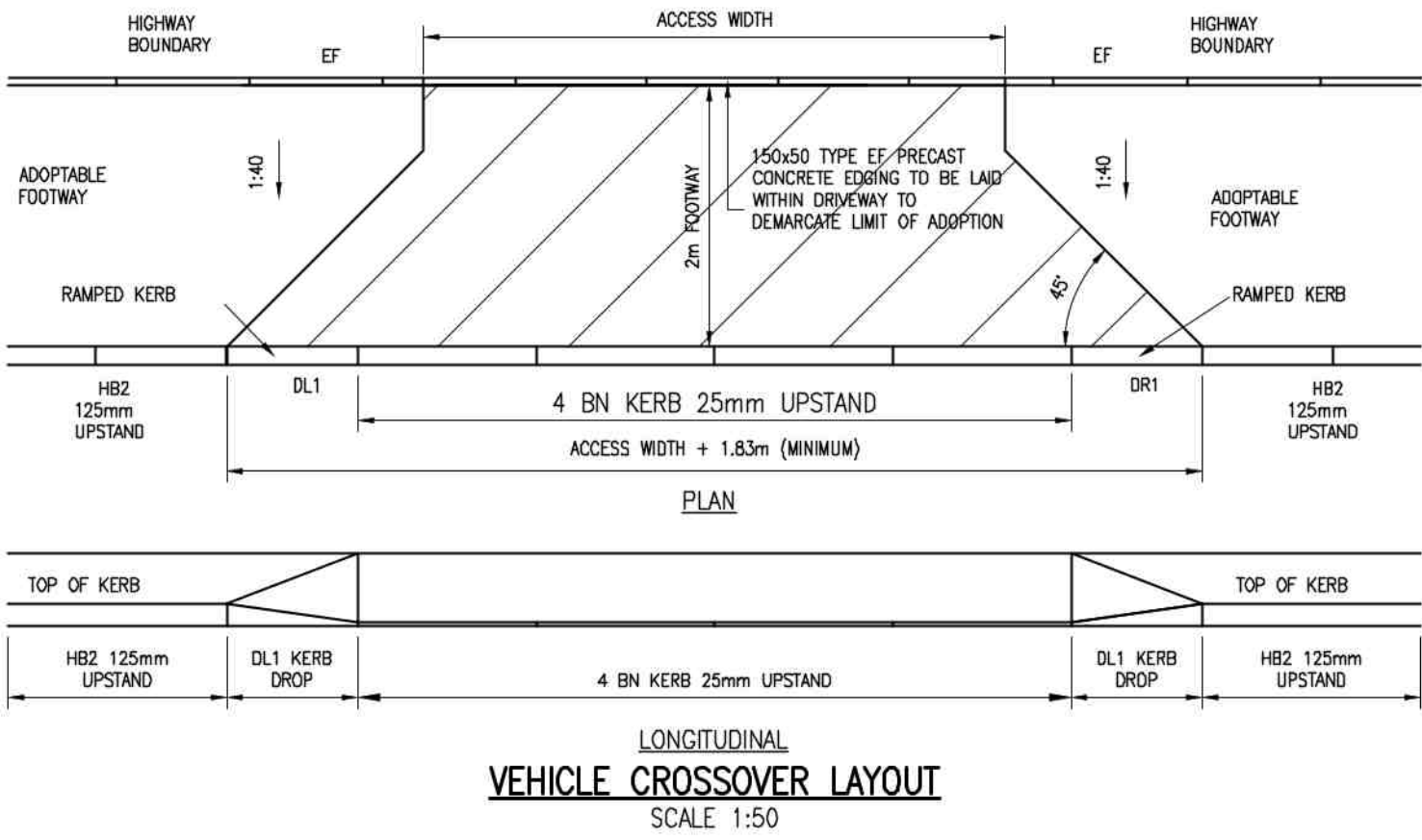


ROAD CARRIAGEWAY CONSTRUCTION MATERIALS AND DEPTHS

LAYER	THICKNESS	DETAILS	NOTES
SURFACE COURSE	40mm	SMA 10 SURF 40/60 (PSV 55) (MHA MATERIAL REFERENCE SC2)	1,2
	40mm	HRA 55/10 F SURF 40/60 DES (MHA MATERIAL REFERENCE SC7)	2
	40mm	AC 10 CLOSE SURF 100/150 (MHA MATERIAL REFERENCE SC11)	2
BINDER COURSE	60mm	AC 20 DENSE BIN 100/150 REC (MHA MATERIAL REFERENCE BC2)	
BASE	150mm	AC32 BASE 40/60 REC (MHA MATERIAL REFERENCE B1)	
NOTES	1. POLISHED STONE VALUE (PSV) OF COURSE AGGREGATE IN SURFACING COURSE SHALL BE DETERMINED FROM THE TABLE 1.1 POLISHED STONE VALUES FOR SURFACE TREATMENTS ON PAGE 16 OF OUR SKIDDING RESISTANCE PROCEDURE. 2. HRA 50/10 BIN 40/60 (MATERIAL REF. REG1) MAY BE USED FOR HAND LAYING SPEED TABLES. 3. SUBGRADE ASSESSMENT CAPPING LAYER/SUB BASE DESIGN ARE COVERED IN SECTION MC10 PARAS 4.65-4.7 4. ANY BINDER COURSE MATERIAL LAID AS RUNNING SURFACE PRIOR TO THE FINAL SURFACE COURSE BEING LAID MUST HAVE A MINIMUM PSV OF 55 AND AAV OF 7.		

VEHICLE CROSSING SPECIFICATION

	BITUMINOUS FOOTWAY
SURFACE COURSE	20mm THICK AC 6 DENSE SURF 100/150 (MHA MATERIAL REF SC12)
BINDER COURSE	50mm THICK AC20 DENSE BIN 160/220 REC (MHA MATERIAL REF BC3)
DENSE BASE	N/A
SUB-BASE	225mm THICK GRANULAR TYPE 1 (MHA MATERIAL REF SB1)



PRIVATE PERMEABLE PAVING/PERFORATED PIPE DRAINAGE DETAILS
SCALE 1:20

PERMEABLE PAVING BARRIER WALL DETAIL
SCALE 1:20

NOTES:

- DO NOT SCALE THIS DRAWING.
- BLOCK PAVERS AND PAVING SLABS ABUTTING DRAINAGE CHANNELS, GULLY GRATES, ETC.
THE UPPER SURFACE OF BLOCK PAVERS SHOULD BE SET 3-6mm ABOVE THE GRATING.
THE UPPER SURFACE OF PAVING SLABS SHOULD BE SET APPROXIMATELY 5mm ABOVE THE GRATING.
- COVERS AND FRAMES

ALL INSPECTION CHAMBER COVER AND FRAMES TO HAVE THE TOP SURFACE IN ALIGNMENT WITH BOTH THE LONGITUDINAL AND TRANSVERSE GRADIENTS OF ADJACENT ROADS, DRIVES, FOOTWAYS AND VERGES. THEY ARE OTHERWISE TO BE LAID LEVEL. ALL COVER LEVELS AS SHOWN ON THE DRAINAGE DESIGN DRAWINGS ARE APPROXIMATE. ACTUAL COVER LEVELS ARE TO BE DETERMINED ON SITE FROM THE POSITION IN THE ROAD, DRIVE, FOOTPATH OR OTHERWISE.

- COVERS AND FRAMES FOR BRICKWORK AND PRE-CAST CONCRETE CHAMBERS:
- PRIVATE DRIVES ACCEPTING VEHICLE TRAFFIC: BSEN124 CLASS D400 600MM CLEAR OPENING, SOLID TOP COVER AND FRAME.
 - FOOTPATHS, VERGES AND GARDENS: BSEN124 CLASS B125, 600MM CLEAR OPENING, SOLID TOP COVER AND FRAME.
- COVERS AND FRAMES FOR POLYPROPYLENE CHAMBERS:
- AREAS ACCEPTING VEHICLE TRAFFIC: CLASS B
 - SOFT LANDSCAPED AREAS: CLASS C

4. MORTAR

MORTAR SHALL BE MIXED ONLY AS AND WHEN REQUIRED, THE RELEVANT PROPORTIONS INDICATED AS BELOW (BY VOLUME), UNTIL ITS COLOUR AND CONSISTENCY ARE UNIFORM. THE CONSTITUENT MATERIALS SHALL BE ACCURATELY GAUGED, ALLOWANCE BEING MADE FOR BULKING OF SAND.

CEMENT:LIME:SAND	CEMENT:SAND	CEMENT:SAND WITH PLASTICISER
1 : 1/2 : 3	1 : 3	1 : 2 1/2 TO 3

5. SUB-BASE AND CAPPING LAYER

MINIMUM SUB-BASE THICKNESS 150mm, BUT MAY REQUIRE TO BE DEEPER, DEPENDING ON THE REQUIREMENTS FOR CAPPING. OVERALL MINIMUM CONSTRUCTION DEPTH OF PAVEMENT TO BE 450mm (INCLUSIVE OF CAPPING LAYER) FOR PROTECTION FROM FROST HEAVE.

ASPHALT-BASED MATERIALS (E.G. ROAD BASE IF NOT SPECIFIED ON DETAIL) CAN BE USED AS PARTIAL REPLACEMENT OF A FULL THICKNESS GRANULAR SUB-BASE TYPE 1 MATERIAL.

MINIMUM SUB-BASE THICKNESS FOR PAVED AREAS (CONSOLIDATED IN ACCORDANCE WITH MCHW VOLUME 1 CLAUSE 801, TABLE 8/1:

CBR VALUES (%)	WITH GEOTEXTILE	WITHOUT GEOTEXTILE
2<	N/A	300
2-3	325	225
3-5	250	150
>5	150	N/A

6. BOND AND TACK COATS

TO BE PROVIDED FOR BITUMINOUS MIXTURES IN ACCORDANCE WITH BS 4987-2.

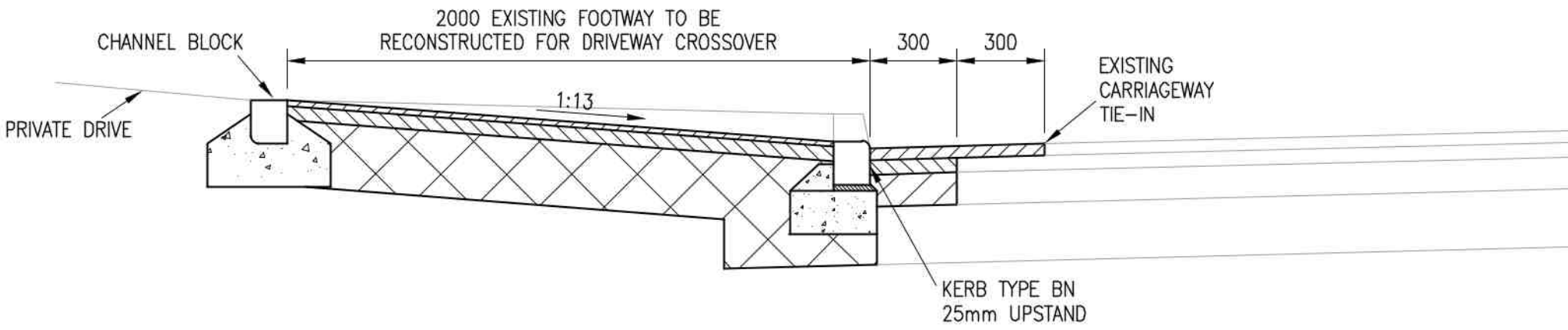
7. RELEVANT STANDARDS FOR MATERIALS USED IN PAVEMENTS

BS EN 13108-1	BITUMINOUS MIXTURES. MATERIALS SPECIFICATIONS. ASPHALT CONCRETE
BS ENN 13108-7	BITUMINOUS MIXTURES. MATERIALS SPECIFICATIONS. POROUS ASPHALT
BS EN 13043	AGGREGATES FOR BITUMINOUS MIXTURES AND SURFACE TREATMENTS FOR ROADS, AIRFIELDS AND OTHER TRAFFICKED AREAS
PD 6682-2	GUIDANCE ON THE USE OF BS EN 13043, AGGREGATES FOR BITUMINOUS MIXTURES
PD 6691	GUIDANCE ON THE USE OF BS EN 13108, BITUMINOUS MIXTURES
BS EN 13242	AGGREGATES FOR UNBOUND AND HYDRAULICALLY BOUND MATERIALS
PD 6682-6	GUIDANCE ON THE USE OF BS EN 13242
BS EN 771	SPECIFICATION FOR MASONRY UNITS
BS EN 1344	CLAY PAVERS. REQUIREMENTS AND TEST METHODS
BS EN 1339	CONCRETE PAVING FLAGS. REQUIREMENTS AND TEST METHODS
BS 7533	PAVEMENTS CONSTRUCTED WITH CLAY, NATURAL STONE OR CONCRETE PAVERS

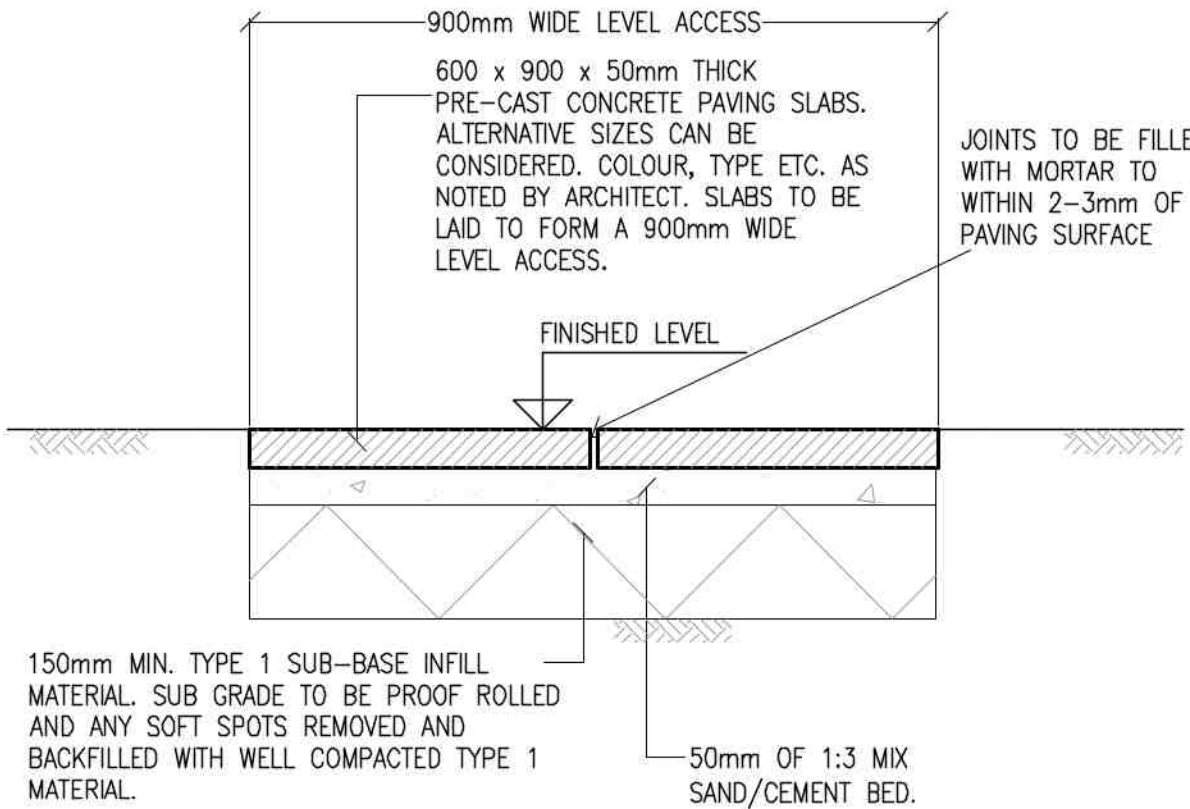
KERBING NOTES:

- KERB FOUNDATIONS FOR TYPES 1-3 SHALL NOT BE LESS THAN 150mm THICK, AND SHOULD BE SEATED ON OR IN THE SUB-BASE. THIS DEPENDING ON PAVEMENT CONSTRUCTION THICKNESS ADOPTED. TYPE 4 KERB FOUNDATION SHALL NOT BE LESS THAN 100mm THICK.
- 50mm DIAMETER WEEPHOLES TO BE FORMED THROUGH THE KERB FOUNDATIONS AT 10m CENTRES ON LOW CHANNELS.
- ALL KERBS SHALL BE LAID ON A 10mm BED OF DESIGNATION (I) MORTAR UNLESS LAID WITH THE FOUNDATION IN ONE OPERATION.
- ADEQUATE BOND MUST BE MADE BETWEEN FOUNDATION AND HAUNCH IF LAID IN MORE THAN ONE OPERATION. PREFERRED METHOD OF BONDING TO BE BY MEANS OF STEEL REINFORCEMENT MESH. ANY OTHER METHOD TO BE APPROVED BY THE ENGINEER.
- PRAM CROSSINGS SHALL BE AS VEHICULAR ACCESSSES, BUT WITH NORMAL FOOTWAY CONSTRUCTION.
- MORTAR JOINTS BETWEEN KERBS NOT TO BE PROVIDED UNLESS SPECIFIED. GAPS BETWEEN KERBS TO BE 1 TO 2mm WHERE MORTAR JOINTING IS SPECIFIED. EXPANSION JOINTS TO BE PROVIDED THROUGH KERBS. BED AND BACKING AT 15mm CENTRES WHEN LAID ADJACENT TO OR ON CONCRETE PAVEMENT.
- KERB BACKING NORMALLY BROUGHT UP TO 50mm BELOW TOP OF KERB, BUT WHERE FINAL SURFACE OF FOOTWAY IS SLAB PAVING, KERB BACKING SHALL FINISH 75mm BELOW TO OF KERB.
- FOR RADIUS WORK, KERBS SHALL BE AS FOLLOWS:-
RADIUS 12m OR LESS - KERBS MANUFACTURED TO AN APPROPRIATE RADIUS.
RADIUS 12m TO 20m - STRAIGHT KERBS OF A CONSISTENT LENGTH IN THE RANGE OF 450mm TO 600mm.
RADIUS 20m OR GREATER - STRAIGHT KERBS.

B	CLIENT DETAILS AMENDED AND DRAWING STATUS CHANGED	DMH	PT	NB	09.02.24
A	PAVEMENT CHANGED TO PERMEABLE ASPHALT. BLOCK PAVING DELINEATION DETAIL ADDED	EM	NB	DMH	12.05.23
-	FIRST ISSUE	EM	NB	DMH	11.05.23
REV.	AMENDMENTS:	DRN	CHK	APP.	DATE:
PROJECT: SITE NORTH OF HEATH LANE SURGERY, WESTFIELD AVENUE EARL SHILTON					
DRAWING TITLE: EXTERNAL WORKS CONSTRUCTION DETAILS					
CLIENT: AVANT HOMES LTD					
DRAWING NUMBER: 27695_02_080_01					
REVISION: B	SHEET SIZE: A1	SCALE: AS SHOWN			
STATUS: FOR INFORMATION / APPROVAL					
		Telephone: 01530 284 753 Email: group@m-ec.co.uk Website: www.m-ec.co.uk			
Consulting Development Engineers		ORNANCE SURVEY © CROWN COPYRIGHT 2015. ALL RIGHTS RESERVED. LICENCE NUMBER 10005885.			

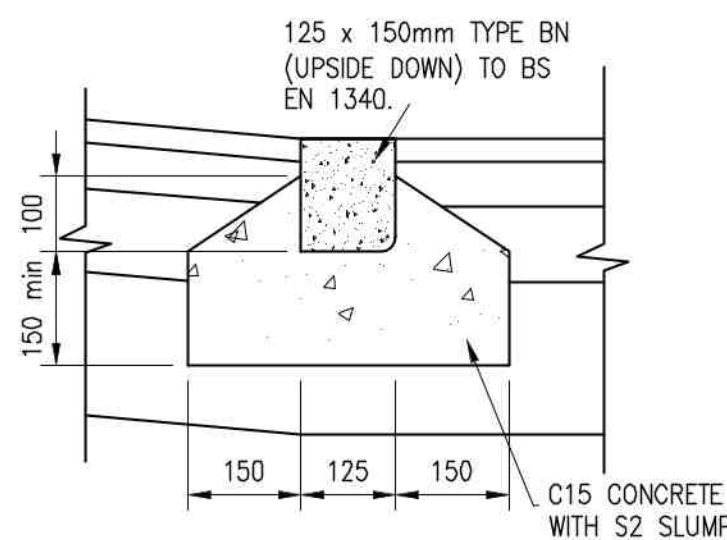
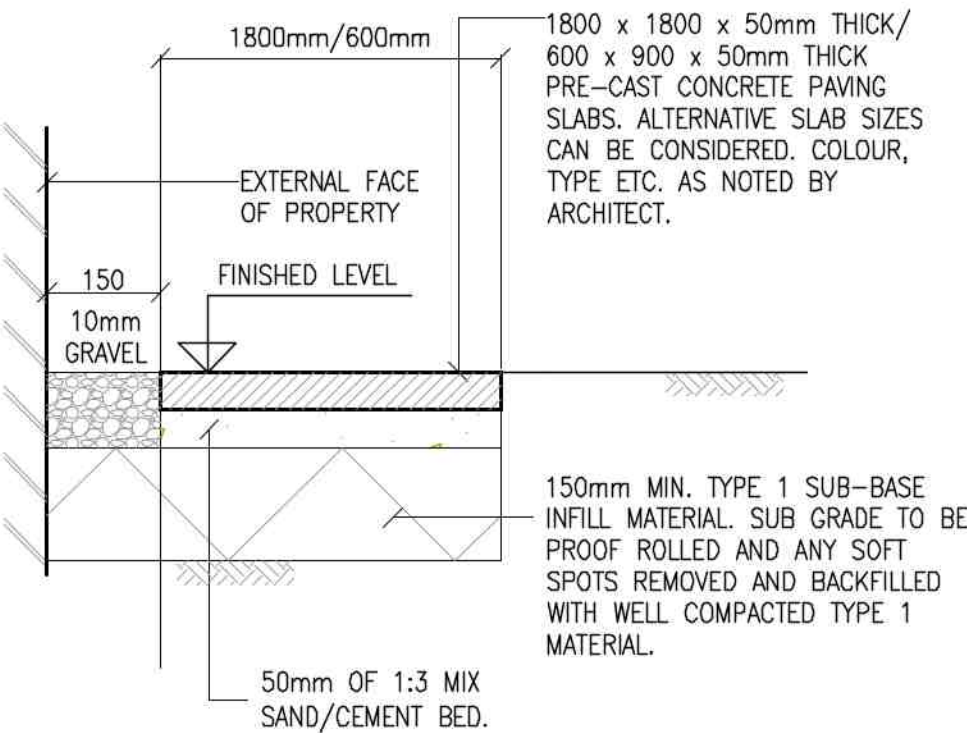


FOOTWAY DROPPED KERB DETAIL
SCALE 1:20

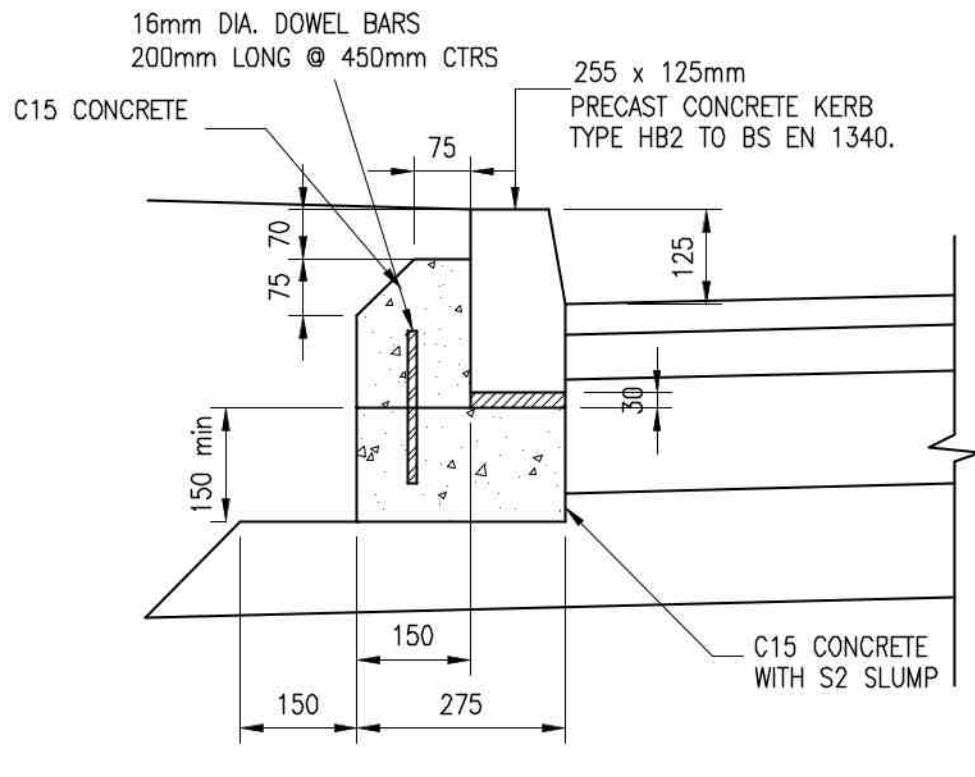


PAVING SLABS TO FRONT OF PROPERTIES
SCALE 1:10

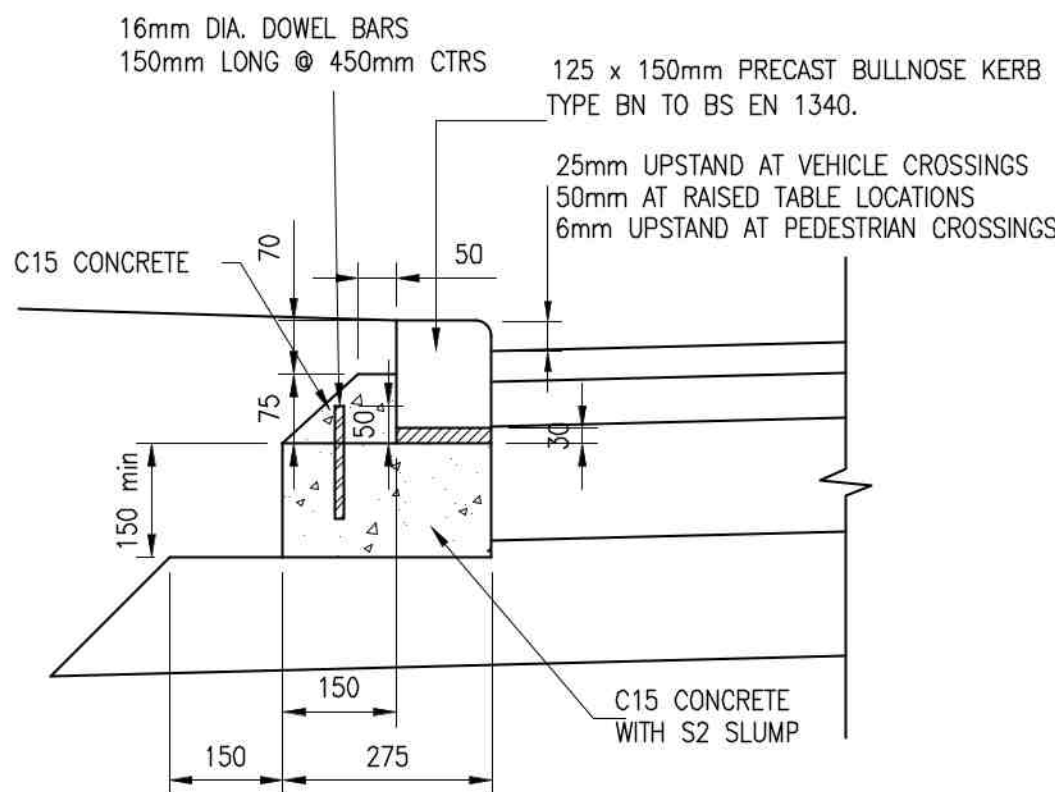
PAVING SLABS TO REAR OF PROPERTIES
SCALE 1:10



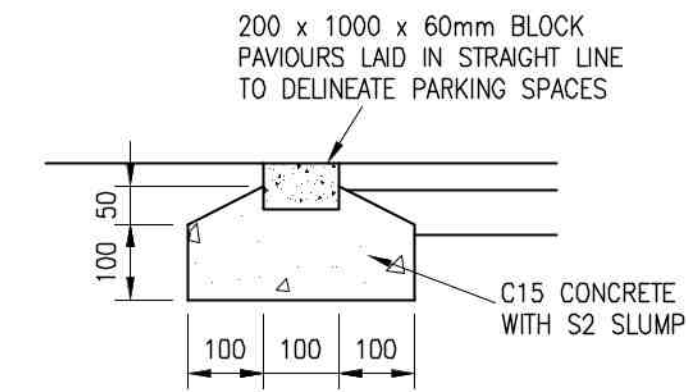
CHANNEL BLOCKS
SCALE 1:10



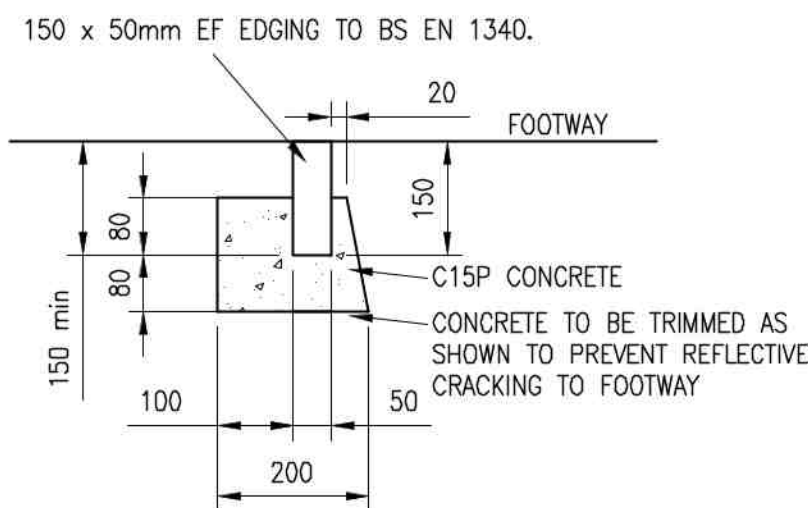
HALF BATTERED KERB (HB2)
SCALE 1:10



BULLNOSE DROPPED KERB (BN)
SCALE 1:10



BLOCK PAVING DELINEATION LINES FOR PARKING SPACES
SCALE 1:10



FOOTWAY/VERGE EDGING DETAIL (EF)
SCALE 1:10