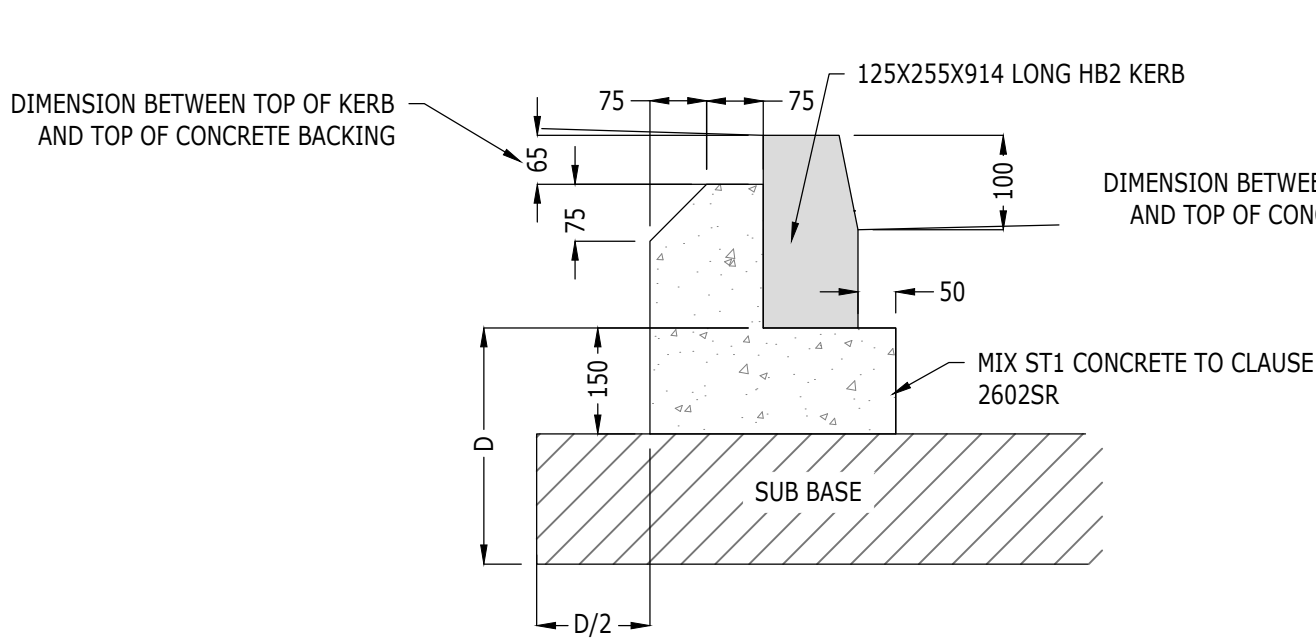
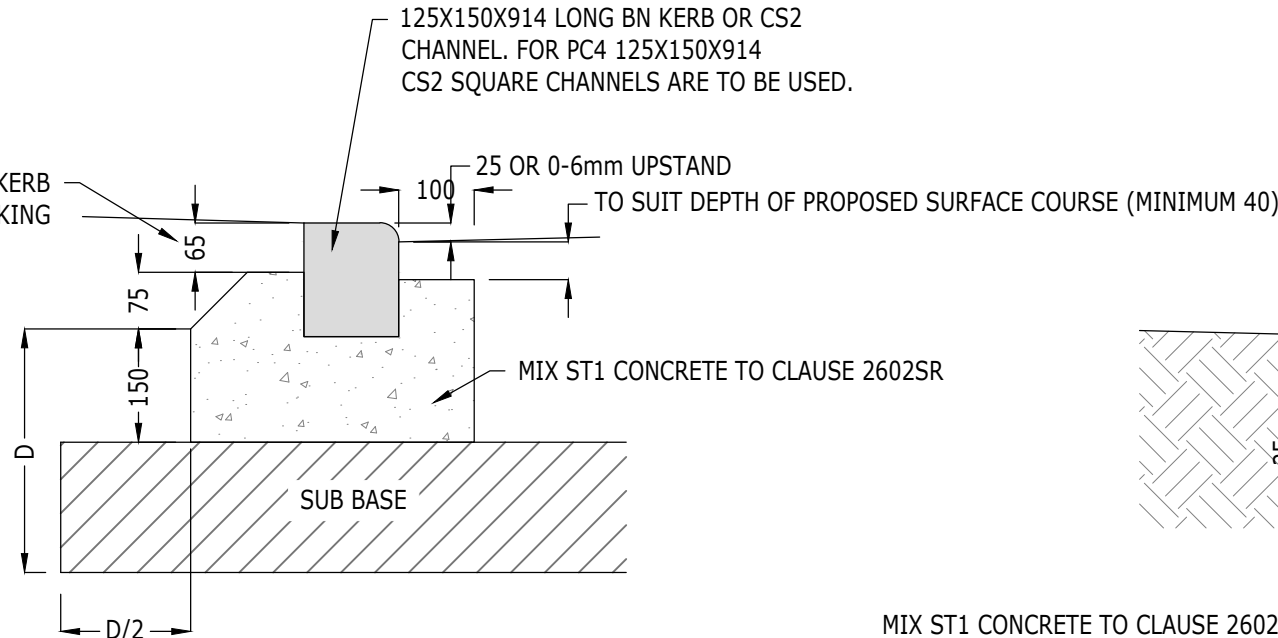




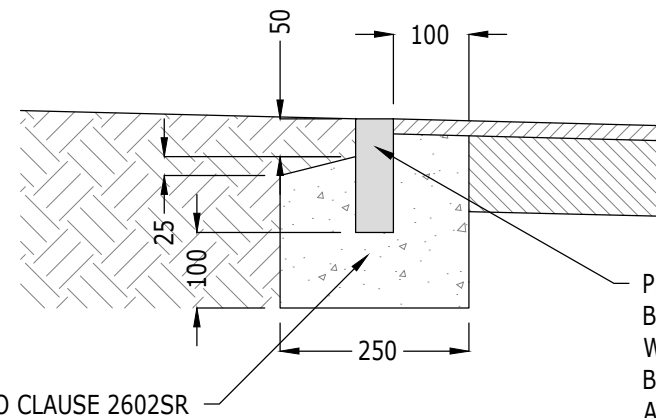
KERB TYPE PC1
(1:10)

*(REFER TO HCC CONSTRUCTION
DETAIL HCC10/C/010)



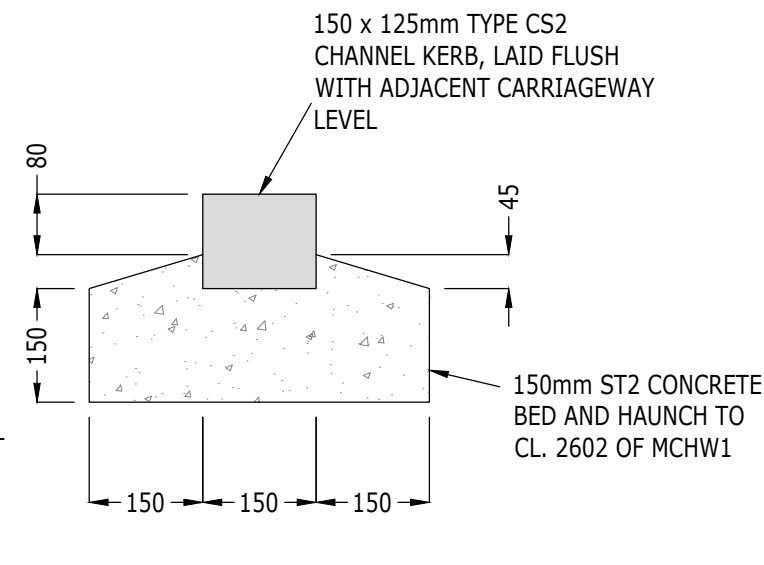
KERB TYPE PC3 (25mm UPSTAND)
KERB TYPE PC4 (0-6mm UPSTAND)
(1:10)

*(REFER TO HCC CONSTRUCTION
DETAIL HCC10/C/010)

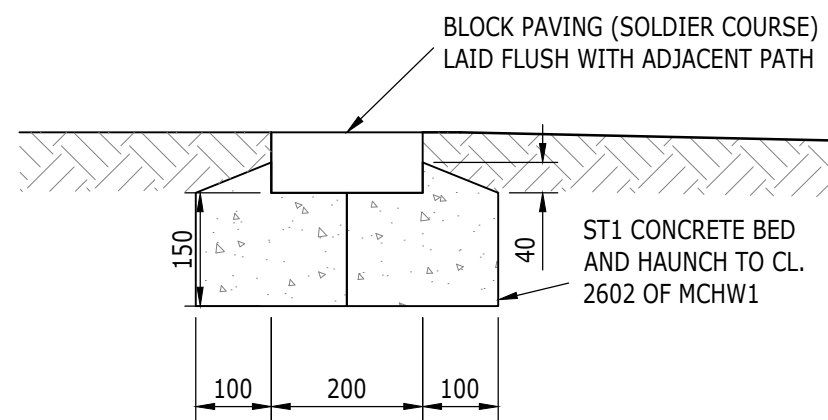


PRECAST CONCRETE EDGING
(1:10)

*(REFER TO HCC CONSTRUCTION
DETAIL HCC10/C/045 REV A)



**CHANNEL KERB
DETAIL TYPE CS2**
(1:10)



BLOCK PAVED EDGE RESTRAINT

NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATION AND ALL OTHER RELATED DRAWINGS ISSUED BY THE ENGINEER.
- DO NOT SCALE FROM THIS DRAWING. WORK FROM FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
- ALL DIMENSIONS, LEVELS AND SURVEY GRID CO-ORDINATES ARE TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORKS.
- NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS PERMITTED WITHOUT PRIOR PERMISSION FROM THE ENGINEER.
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY FULLY WITH THE MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS, VOLUME ONE, SPECIFICATION FOR HIGHWAY WORKS AND THE LOCAL AUTHORITY SPECIFICATION FOR ROAD CONSTRUCTION AND STANDARD DETAILS.
- THE PUBLIC HIGHWAY AND WORKS WILL BE KEPT CLEAN AND FREE OF DEBRIS BY USE OF WHEEL WASHING FACILITIES AND ROAD SWEEPERS TO THE COUNCIL'S SATISFACTION.
- ALL SETTING OUT SHALL BE AGREED ON-SITE WITH THE ENGINEER, PRIOR TO THE COMMENCEMENT OF THE WORKS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITY PRIOR TO COMMENCING WORKS ON THE HIGHWAY.

CONSTRUCTION NOTES:

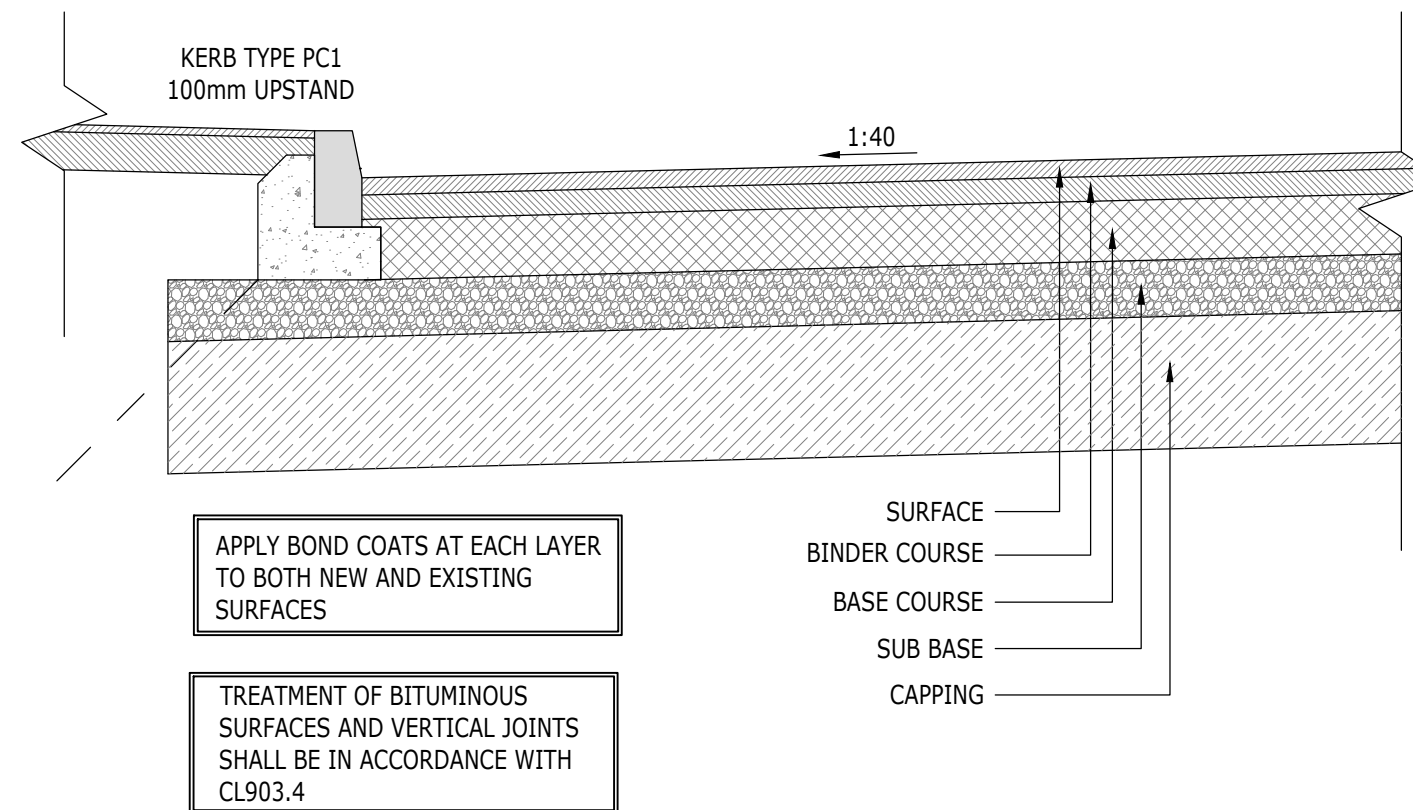
- ALL SOFT SPOTS AND VOIDS SHALL BE REMOVED BEFORE CONSTRUCTION AND REPLACED WITH SUITABLE FILL MATERIAL.
- ROAD FORMATION TO BE IN ACCORDANCE WITH CLAUSE 616 AND COMPACTED IN ACCORDANCE WITH TABLE THE REQUIREMENTS OF 6/4 OF THE SPECIFICATION FOR HIGHWAY WORKS - SERIES 600 EARTHWORKS.
- APPROVED RESIDUAL WEEDKILLER, WHICH DOES NOT CONTAIN ATRAZINE OR SIMAZINE, MUST BE APPLIED TO ALL FORMATIONS.
- ALL CONCRETE AND CEMENT MORTAR MUST BE SULPHATE RESISTING TO BS 4021.
- ALL CARRIAGEWAY MATERIALS SHALL BE SUPPLIED AND LAID IN ACCORDANCE WITH BS EN 13108-1.
- ALL MATERIALS IN CARRIAGEWAYS TO BE LAID BY MACHINE.
- MINIMUM DEPTH OF 450mm FROM FINISHED GROUND LEVEL TO BE NON-FROST SUSCEPTIBLE MATERIAL.
- THE CONTRACTOR MUST VERIFY CBR VALUES ALONG EACH ACCESS ROAD AT 30m INTERVALS, THE RESULTS OF WHICH MUST BE SENT TO THE ENGINEER FOR CONFORMATION OF THE CARRIAGEWAY CONSTRUCTION SHOWN ON THIS DRAWING, PRIOR TO COMMENCING THE WORKS.

CDM NOTES:

- THE ATTENTION OF THE CLIENT AND THE PRINCIPAL CONTRACTOR IS DRAWN TO THE FOLLOWING POTENTIAL RISKS IN CONJUNCTION WITH THE PROPOSED ON-SITE AND OFF-SITE WORKS AS DESIGNED FOR THIS PROJECT.
- WORKS IN THE VICINITY OF LIVE SERVICES INCLUDING GAS, ELECTRICITY AND BT WILL BE NECESSARY AND THE ADVICE OF ALL STATUTORY SERVICE COMPANIES MUST BE SOUGHT BEFORE ANY WORKS COMMENCE.
- WORKS WITHIN AND ABUTTING THE EXISTING HIGHWAY WILL ENTAIL TRAFFIC HAZARDS AND ALL APPROPRIATE SAFETY MEASURES INCLUDING BARRIERS, SIGNS AND LIGHTING MUST BE UNDERTAKEN TO THE APPROVAL OF THE LOCAL AUTHORITY, THE HIGHWAY AUTHORITY AND THE POLICE DEPARTMENT.
- HAZARDOUS MATERIALS INCLUDING CEMENT AND BITUMINOUS MATERIALS ARE SPECIFIED AND THE MANUFACTURERS ADVICE ON SAFE HANDLING PROCEDURES MUST BE OBTAINED AND MADE CLEAR TO ALL OPERATIVES.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES WITHIN THE VICINITY OF THE WORKS HAND DIG AND ENSURE THESE ARE PROTECTED THROUGHOUT THE DURATION OF THE WORKS. ALL UTILITY PLANT SHOULD BE CLEARLY MARKED ON THE GROUND PRIOR TO COMMENCEMENT OF THE WORKS.
- THE CONTRACTOR MUST ENSURE ALL WORKING AREAS ARE FULLY SECURE.

**CONSTRUCTION
ISSUE**

**SUBJECT TO FINAL
COORDINATION AND
TECHNICAL APPROVALS**



**FLEXIBLE CARRIAGEWAY CONSTRUCTION
SPECIFICATION**

SURFACE COURSE
45mm HRA 35/14F SURF 40/60 DES TO CL943 WITH 14/20 PCCs PSV65

BINDER COURSE
65mm DENSE ASPHALT CONCRETE BINDER COURSE AC20 DENSE BIN 40/60 DES CLAUSE 929

BASE COURSE
205mm ASPHALT CONCRETE DENSE BASE COURSE AC32 DENSE BASE 40/60 CLAUSE 929

SUB-BASE
150mm THICK GRANULAR SUB-BASE MATERIAL TYPE 1. SPECIFICATION CLAUSE 803.REFER TO CBR TABLE FOR FINAL THICKNESS. (BASED ON 2-5% CBR DESIGN VALUE)

CAPPING LAYER
350 MIN. OF CLASS 6F1 OR 6F2 MATERIAL TO CLAUSE 613 AND TABLE 6/1 OF SERIES 600 OF MCHW1 (CLASS 6F1 MATERIAL TO BE CHECKED AND APPROVED ON SITE BY HIGHWAYS INSPECTOR PRIOR TO USE) (BASED UPON A CBR TEST RESULT OF 2-5%)

**BLOCK PAVED CARRIAGEWAY CONSTRUCTION
SPECIFICATION**

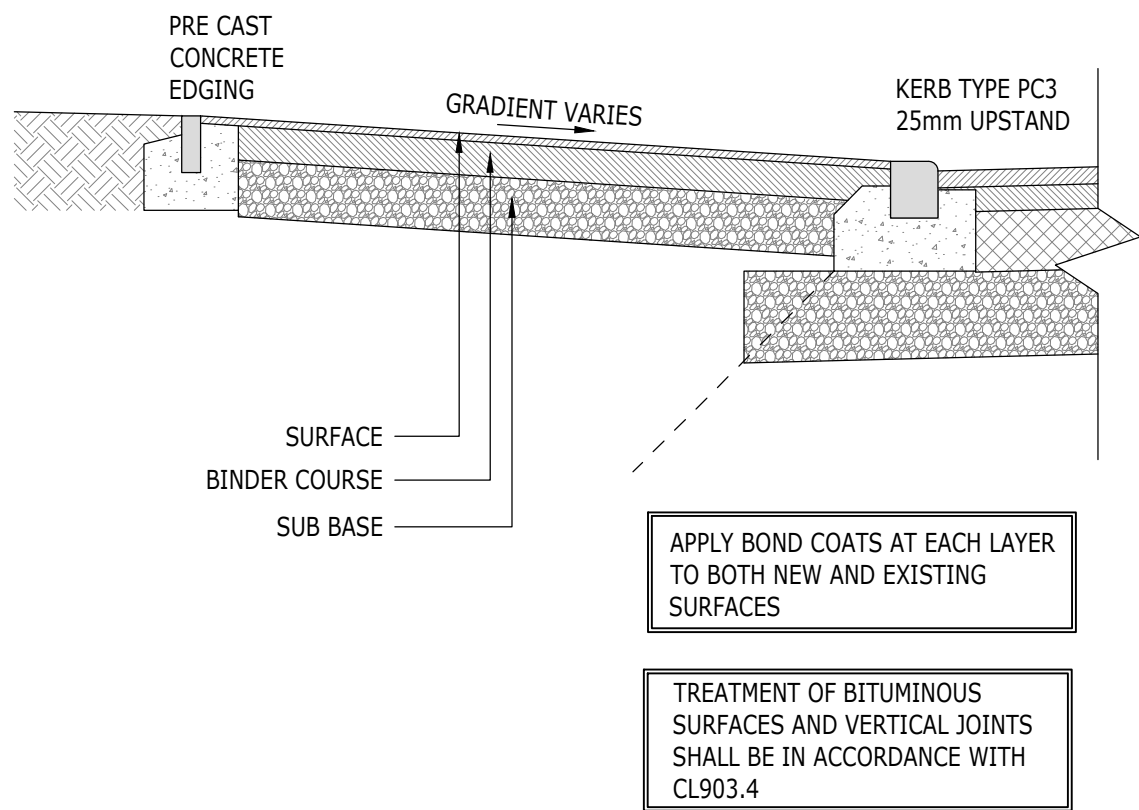
SURFACE COURSE
BRETT'S CONCRETE BLOCK PAVERS OR SIMILAR APPROVED. 200x100x80 IN CHARCOAL AND SHALL BE LAID TO 45°HERRINGBONE PATTERN. THE PAVERS SHALL HAVE A MINIMUM PPTV OF 55 AND SHALL BE LAID IN ACCORDANCE WITH BS 7533: PART 3.

SURFACE COURSE
30mm SHARP SAND BED BS EN 12620 AND TO THE REQUIREMENTS OF BS 7533 AND IN ACCORDANCE WITH DMRB VOLUME 7, PART 5 HD 39/01

BASE COURSE
205mm ASPHALT CONCRETE DENSE BASE COURSE AC32 DENSE BASE 40/60 CLAUSE 929

SUB-BASE
150mm THICK GRANULAR SUB-BASE MATERIAL TYPE 1. SPECIFICATION CLAUSE 803.REFER TO CBR TABLE FOR FINAL THICKNESS. (BASED ON 2-5% CBR DESIGN VALUE)

CAPPING LAYER
350 MIN. OF CLASS 6F1 OR 6F2 MATERIAL TO CLAUSE 613 AND TABLE 6/1 OF SERIES 600 OF MCHW1 (CLASS 6F1 MATERIAL TO BE CHECKED AND APPROVED ON SITE BY HIGHWAYS INSPECTOR PRIOR TO USE) (BASED UPON A CBR TEST RESULT OF 2-5%)



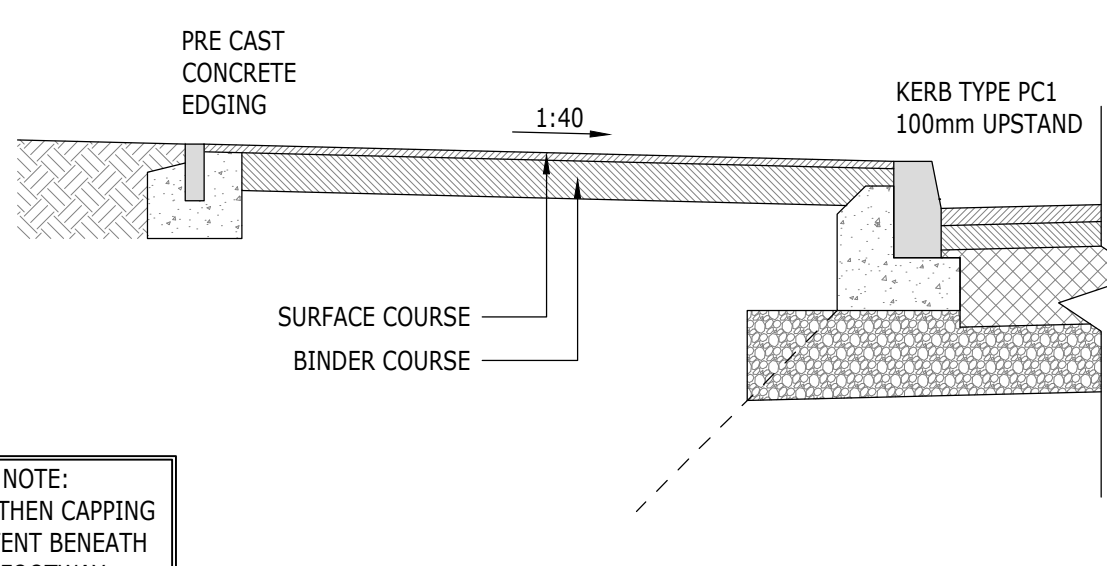
**FOOTWAY 5 - STRENGTHENED FLEXIBLE
CONSTRUCTION SPECIFICATION
(VEHICULAR CROSSOVER)**

*(REFER TO HCC CONSTRUCTION DETAIL
HCC10/C/055 REV A)

SURFACE COURSE
20mm DENSE ASPHALT CONCRETE SURFACE COURSE AC6 DENSE SURF 100/150 ~ PSV-45 TO BS EN 13108-1

BINDER COURSE
DENSE ASPHALT CONCRETE AC20 DENSE BIN 100/150 TO BS EN 13108-1

SUB BASE
150mm COLD RECYCLED BITUMINOUS BOUND MATERIAL (COURSE GRADE) TO CLAUSE 948SR & APPENDIX 7/18



**FOOTWAY 1A FLEXIBLE CONSTRUCTION
SPECIFICATION**

*(REFER TO HCC CONSTRUCTION DETAIL
HCC10/C/045 REV A)

SURFACE COURSE
20mm DENSE ASPHALT CONCRETE SURFACE COURSE AC6 DENSE SURF 100/150 ~ PSV-45 TO BS EN 13108-1

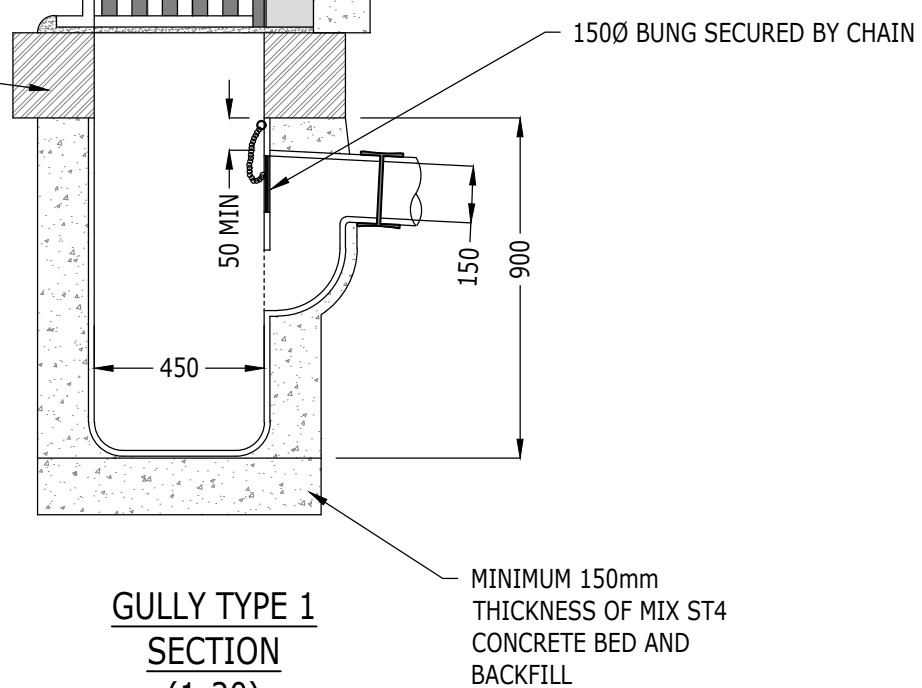
BINDER COURSE
100mm COLD RECYCLED BITUMINOUS BOUND MATERIAL (COURSE GRADE) TO CLAUSE 948SR & APPENDIX 7/18

IMPORTANT NOTE:
IF CBR VALUE <5% THEN CAPPING
LAYER SHOULD EXTEND BENEATH
FULL WIDTH OF FOOTWAY.

GRATING AND FRAME SHALL BE AS DESCRIBED IN APPENDIX 5/1. THE FRAME SHALL BE BEDDED ON A MINIMUM 15mm THICKNESS OF POLYESTER RESIN MORTAR AND SHALL BE SET TO CROSSFALL AND PROFILE OF CARRIAGEWAY 0 TO 6 BELOW CHANNEL LEVEL.

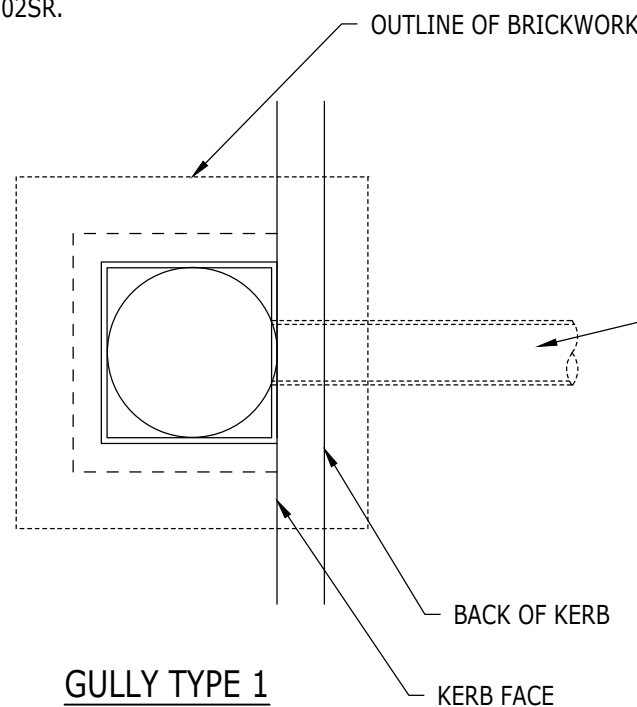
CONSTRUCT A MINIMUM OF 2 AND A MAXIMUM OF 5 COURSES OF 225mm BRICKWORK IN HIGH DENSITY TYPE CLASS B SOLID CLAY ENGINEERING BRICKS TO BS EN 771-1 AND CLAUSE 2406. BOLSTER CUT WEDGES WHERE NECESSARY AND INFILL WITH MORTAR. ALL BRICKWORK MORTAR SHALL BE CLASS (i) TO CLAUSE 2404. IF THE GULLY IS TO BE TRAFFICKED WITHIN 48 HOURS OF BRICKWORK CONSTRUCTION, A RAPID HARDENING CEMENTITIOUS MORTAR SHALL BE USED.

WHERE KERB/S CROSS THE BRICKWORK TO THE GULLY, SAW CUT KERB SO THAT THE BOTTOM EDGE OF THE KERB CORRESPONDS TO THE BOTTOM EDGE OF THE GRATING FRAME. BED KERB ON MINIMUM 15mm THICKNESS OF POLYESTER RESIN MORTAR TO CLAUSE 2601 AND BACK WITH A MINIMUM OF 150mm THICKNESS OF MIX ST1 CONCRETE TO CLAUSE 2602SR.



**GULLY TYPE 1
SECTION**
(1:20)

*(REFER TO HCC CONSTRUCTION DETAIL
HCC10/D/015)



**GULLY TYPE 1
PLAN**
(1:20)

GRATING OMITTED FOR CLARITY
*(REFER TO HCC CONSTRUCTION DETAIL
HCC10/D/015)

- NOTES:**
- THE DETAIL SHOWN IS FOR IN-SITU CONCRETE GULLY POT USING PERMANENT SHUTTERING.
 - THE OUTLET PIPE SHALL HAVE A TYPE Z BED.
 - GULLY SHOWN IS A TRAPPED GULLY. ALL GULLIES SHALL BE TRAPPED UNLESS STATED OTHERWISE IN APPENDIX 5/1.
 - GRATINGS SHALL BE EITHER LEFT HAND OR RIGHT HAND HINGED AS VIEWED WHEN FACING THE KERB. THE HINGED END SHALL BE NEAREST ON-COMING TRAFFIC. THE GRATING SHALL BE CAPTIVE WITHIN THE FRAME.
 - EXISTING CARRIAGEWAY REINSTATEMENT SHALL BE AS SPECIFIED ON LAYOUT DRAWINGS OR IN APPENDIX 7/2.
 - ALL CEMENT USED IN INSITU CONCRETE SHALL BE CII 9A OR B)-S CIII OR B TO BS 8500-2, TABLE 1 AND ANNEX A.

TABLE A - CAPPING LAYER & SUB-BASE THICKNESS REQUIREMENTS

(REFER TO HCC COMPANION DOCUMENT TO MANUAL FOR STREETS).

CBR VALUE (%)	CAPPING LAYER AND SUB BASE PROVIDED		SUB BASE ONLY PROVIDED	
	Min. SUB BASE THICKNESS (mm)	Min. CAPPING LAYER THICKNESS (mm)	Min. SUB BASE THICKNESS (mm)	
<2	150	600	N/A	
2-5	150	350	400*	
>5-15	225	-	225	
>15-30	150	-	150	

* THERE MAY BE SOME CIRCUMSTANCES WHERE A SUB-BASE ONLY CONSTRUCTION WILL NOT BE ACCEPTABLE IN THIS CATEGORY

FOR TENDER PURPOSES, A CBR VALUE OF 2-5% HAS BEEN USED AT THE FORMATION LEVEL OF THE HIGHWAY INLINE WITH SITE INVESTIGATION WORKS UNDERTAKEN TO-DATE. THE CONTRACTOR IS TO CONFIRM THE CBR VALUE BASED UPON TESTING AT 30m INTERVALS ON THE COMPLETED FORMATION. IF THESE TESTS YIELD A DIFFERENT CBR VALUE, THE PROPOSED SUB-BASE / CAPPING LAYER THICKNESS CAN BE REVISED IN ACCORDANCE WITH THE ABOVE TABLE. TEST RESULTS TO BE SUBMITTED TO ENGINEER & HIGHWAYS INSPECTOR FOR CLARIFICATION OF SUB-BASE / CAPPING LAYER CONSTRUCTION PRIOR TO CONTINUATION OF WORKS.

ALL MATERIALS, SPECIFICATIONS AND WORKS TO BE IN ACCORDANCE WITH HAMPSHIRE COUNTY COUNCIL SURFACING OPTIONS & GUIDANCE 2016 EDITION AND HAMPSHIRE COUNTY COUNCIL COMPANION DOCUMENT TO MANUAL FOR STREETS

**IMPORTANT NOTE REGARDING SITE WON
MATERIAL AS FILL**

BEFORE SITE WON MATERIAL CAN BE RE-USED AS FILL UNDER PROPOSED HIGHWAY AREAS, SUITABLE TESTING (ALLOWANCE TO BE MADE IN TENDER SUMS) TO BE CARRIED OUT IN ACCORDANCE WITH HYDROCK'S DESK STUDY AND GROUND INVESTIGATION REPORT TO DETERMINE THE CLASSIFICATION OF THE MATERIAL IN ACCORDANCE WITH TABLE 6/1 600 SERIES OF MCHW1 (LIKELY TO BE EITHER CLASS 2A OR 2B OR POSSIBLY CLASS 1A OR 1B) AND IT'S GENERAL SUITABILITY FOR RE-USE. PLEASE NOTE SOME SITE WON MATERIAL MAY NOT BE SUITABLE FOR RE-USE AS FILL FOR VARYING REASONS, E.G. LEVEL OF DESSICATION.

ALL FILL MATERIAL WILL NEED TO BE LAID AND COMPACTED STRICTLY IN ACCORDANCE WITH TABLE 6/4 600 SERIES OF MCHW1.

C1	CONSTRUCTION ISSUE	DAM	DP	DM	07.08.20
T1	PRELIMINARY ISSUE	DAM	DP	DM	17.07.20
Rev	Description	Drm	Chk	App	Date

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ISO 9001
BUREAU VERITAS
CERTIFICATION

Client

LINDEN HOMES SOUTH

Project Title:
**WOODCROFT LANE,
LOVEDEAN, PHASE 2**

Drawing Title:
**HIGHWAY CONSTRUCTION DETAILS
(SHEET 1 OF 2)**

A1 Scale	Date	Designed by	DAM
AS SHOWN	JULY 2020	Drawn by	DAM
	Checked by	Approved by	-
	DP		
Drawing Number	192931-035		Rev C1