

FOOTWAY CONSTRUCTION

20mm SURFACE COURSE:	AC6 DENSE SURF 100/150.
50mm BINDER COURSE:	AC20 DENSE BIN 160/220 (RECIPE MIX)
100mm SUB BASE:	TYPE 1 SUB BASE

VEHICLE CROSSING CONSTRUCTION

20mm SURFACE COURSE:	AC6 DENSE SURF 160/220 TO PD6691 TABLE B.16 (MIN PSV 45)
50mm BINDER COURSE:	AC20 DENSE BIN 160/220 TO PD6691 TABLE B.11
150mm SUB BASE:	TYPE 1 SUB BASE

CARRIAGEWAY CONSTRUCTION

ROAD CATEGORY: MINOR RESIDENTIAL ACCESS ROAD (CBR 3%)

40mm SURFACE COURSE:	HRA 55/10 F SURF 100/150 PSV 55
60mm BINDER COURSE:	AC20 DENSE BIN 100/150 RECIPE MIX (TO BS EN 13108-1)
100mm BASE COURSE:	AC32 DENSE BASE 100/150 RECIPE MIX (TO BS EN 13108-1)

SUB BASE AND CAPPING: GRANULAR SUB BASE MATERIAL TYPE 1 (NOT LESS THAN 150mm THICK) TO SHW CLAUSE 803
CAPPING 6F2/8 MATERIAL (FOR THICKNESS SEE CBR TABLE).

BOND COAT TO BE APPLIED BETWEEN PAVEMENT LAYERS. TO BE SPRAYED WITH BITUMEN EMULSION CLASS K1-40 TO BS 434 AT RATE OF SPREAD OF 0.5 ± 0.1 l/m²
REFER TO CONSTRUCTION LAYOUT DWG FOR ARRANGEMENTS

CARRIAGEWAY CONSTRUCTION

ROAD CATEGORY: MAJOR RESIDENTIAL ACCESS ROAD (CBR 3%)

40mm SURFACE COURSE:	HRA 55/10 F SURF 100/150 PSV 60
60mm BINDER COURSE:	AC20 DENSE BIN 100/150 RECIPE MIX
150mm BASE COURSE:	AC32 DENSE BASE 100/150 RECIPE MIX

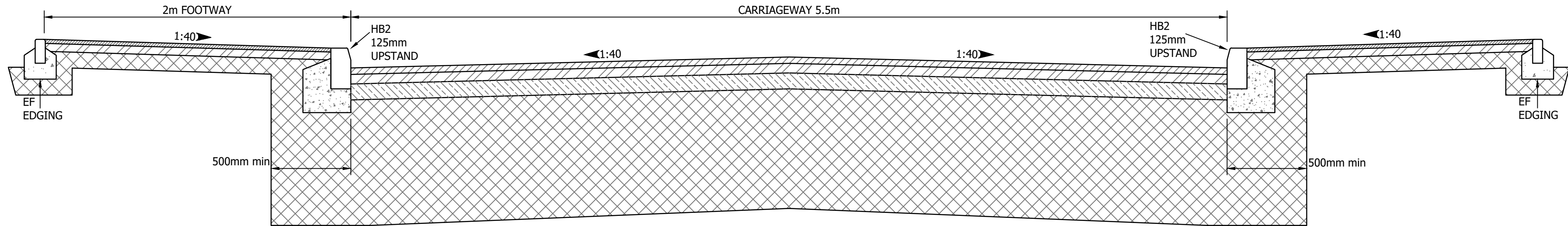
SUB BASE AND CAPPING: TYPE 1 SUB BASE (NOT LESS THAN 150mm THICK) TO SHW CLAUSE 803 (AS HIGHLIGHTED IN CBR TABLE TWO).
CAPPING 6F2/5 MATERIAL (FOR THICKNESS SEE CBR TABLE TWO).

Note:
CAPPING AND SUB BASE THICKNESSES ARE TO BE BASED ON EQUILIBRIUM LABORATORY BASED CBR VALUES CARRIED OUT ON DISTURBED SAMPLES COLLECTED AT FORMATION LEVEL OR ALTERNATIVELY A WORST CASE SCENARIO OF CBR VALUE <2% TO BE ADOPTED WITH 150mm THICK SUB BASE AND 600mm THICK CAPPING.

TABLE TWO

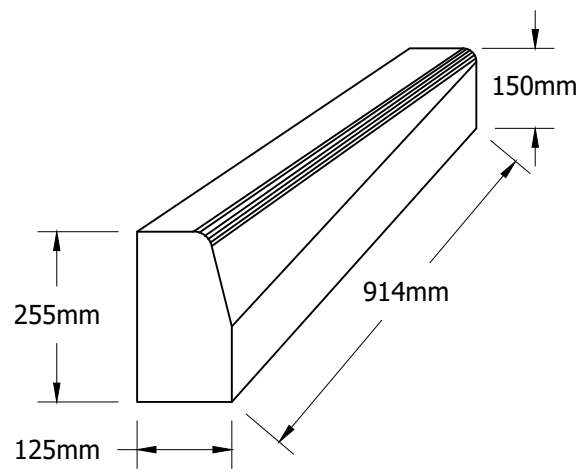
CARRIAGEWAY SUB-BASE AND CAPPING THICKNESS ⁽¹⁾		
CBR % ⁽²⁾	CAPPING mm	SUB-BASE mm
15% or greater ⁽³⁾	-	150
5% to less than 15%	-	225
2% to less than 5%	350	150
less than 2%	600	150

⁽¹⁾ THE FOUNDATION DESIGN SHOULD NOT VARY FREQUENTLY ALONG THE ROAD. SELECT AN APPROPRIATE VALUE FOR EACH SIGNIFICANT CHANGE IN THE SUBGRADE PROPERTIES.
⁽²⁾ WHERE THE EQUILIBRIUM CBR FALLS BETWEEN VALUES IN THE ABOVE TABLE, YOU SHOULD ROUND DOWN THE VALUE TO THE LOWER VALUE.
⁽³⁾ WHEN THE SUBGRADE CBR IS SUFFICIENTLY BELOW 2% THAT CAPPING WITH SUB-BASE IS NOT SUFFICIENT TO SUPPORT THE PAVEMENT, SPECIAL MEASURES WILL BE REQUIRED. FIND ADVICE IN DMRB 7.2.2 HD25/94.

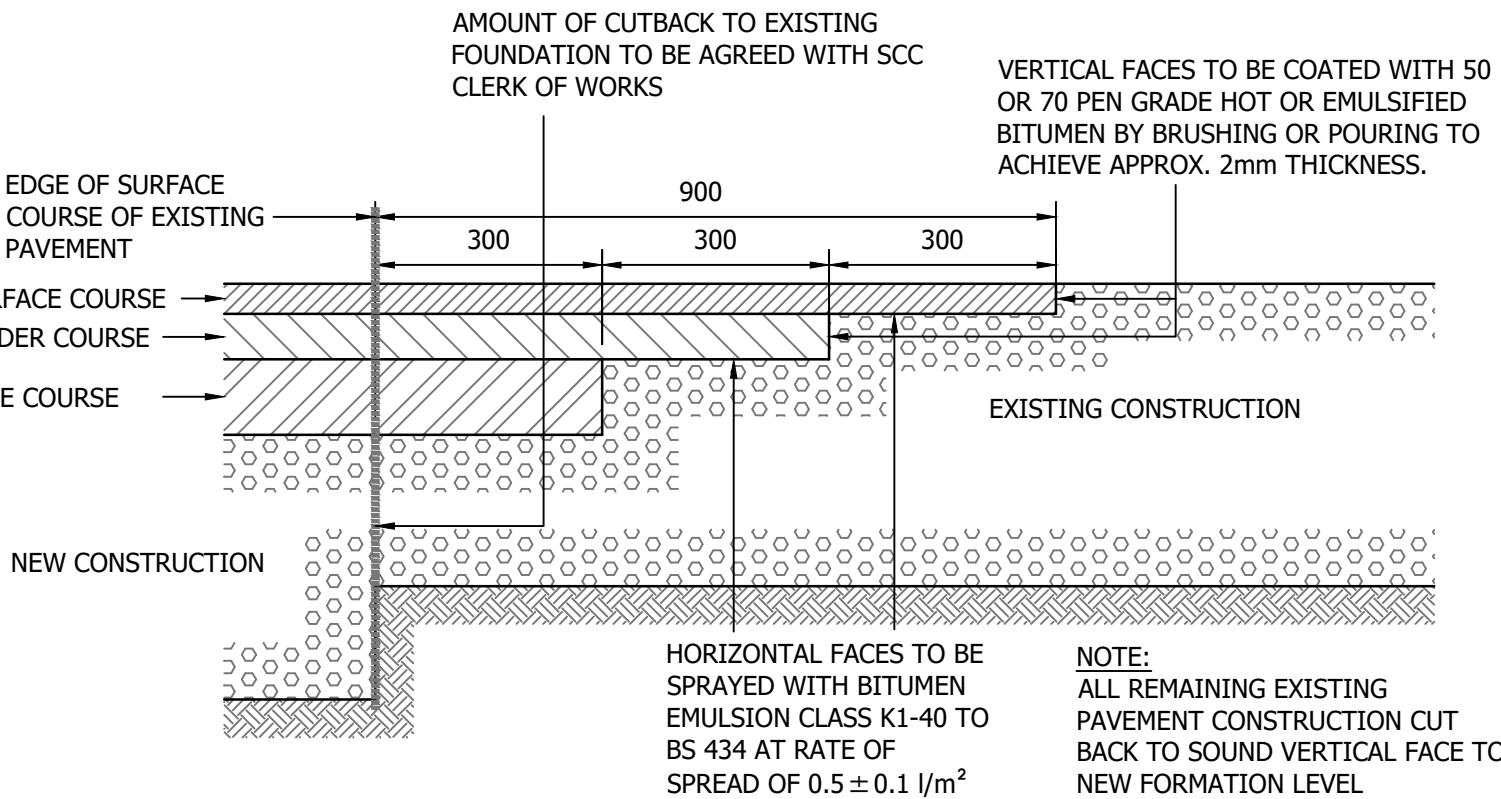


TYPICAL CROSS SECTION THROUGH CARRIAGEWAY

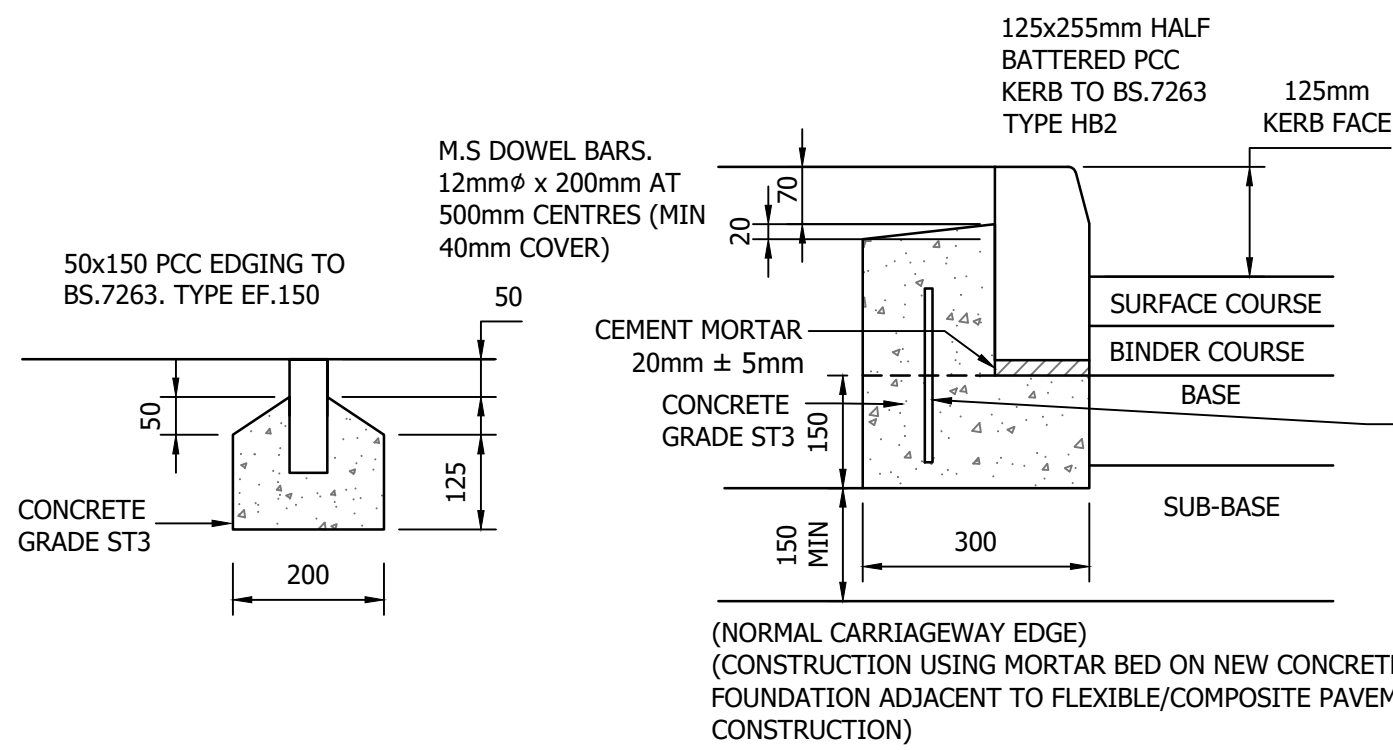
SCALE 1:20



TRANSITION KERB UNIT
3D DETAIL



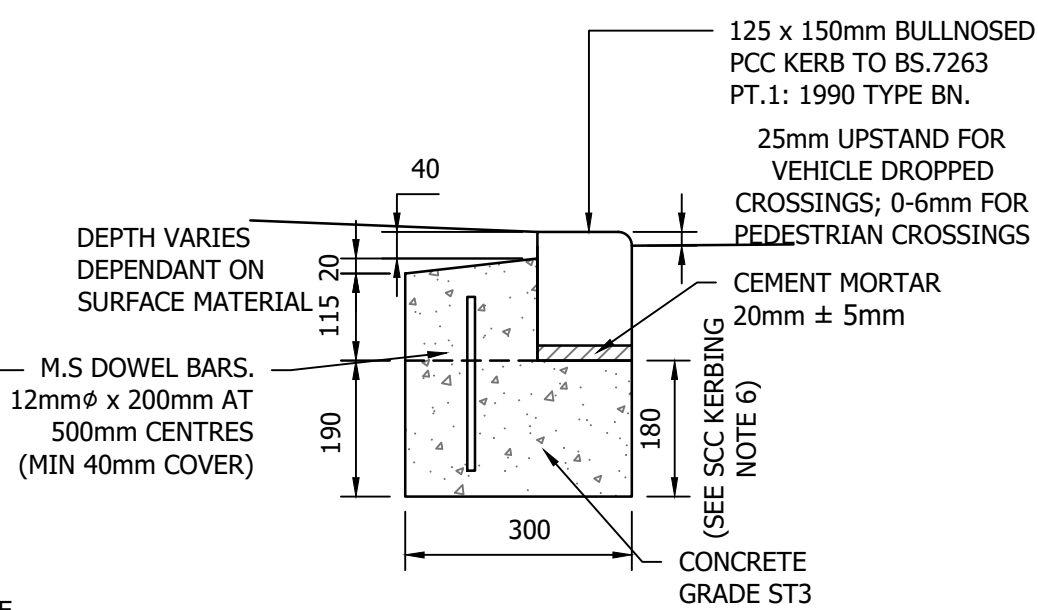
CARRIAGEWAY TIE-IN
NEW TO EXISTING AT EXISTING LEVEL



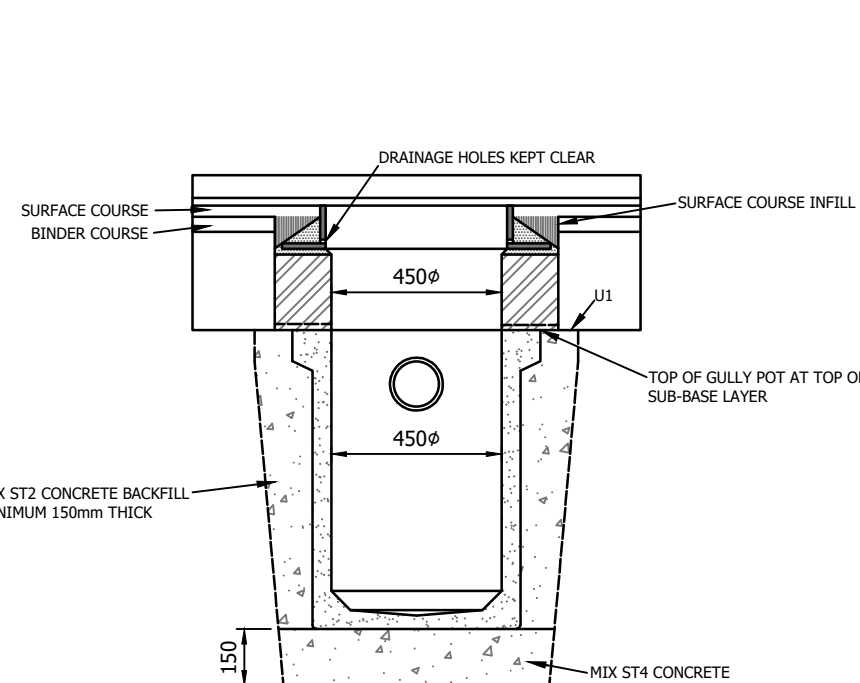
EDGING DETAIL (EF)

HALF BATTER KERB

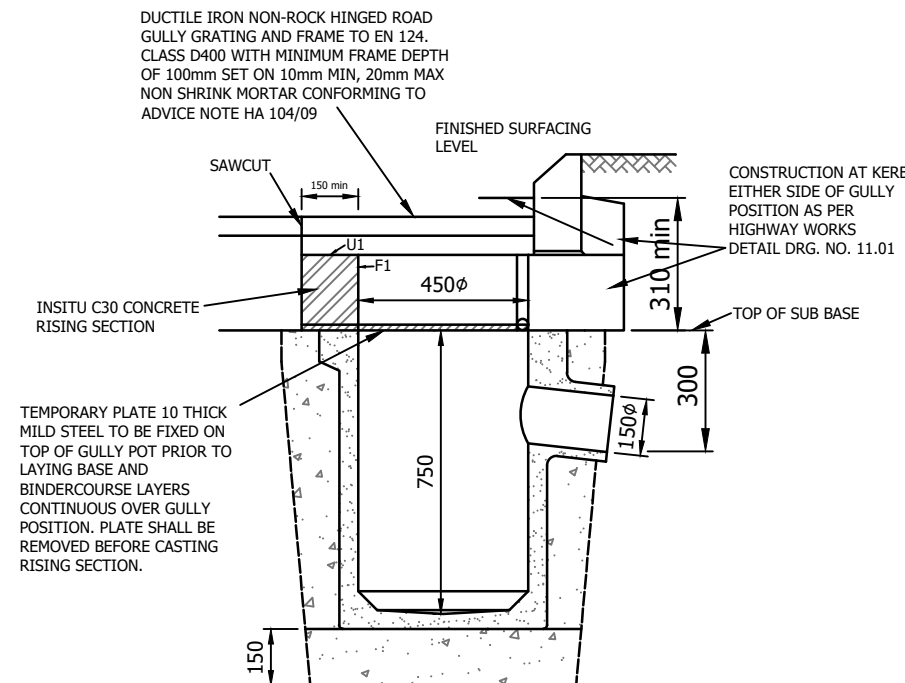
ALL CONCRETE FOUNDATIONS/ BACKING TO KERBS SHALL BE MECHANICALLY VIBRATED.



KERB DETAIL - TYPE BN



SECTIONAL ELEVATION A-A
(COMPLETED INSTALLATION)



SECTIONAL ELEVATION B-B
(DURING CONSTRUCTION)

PRECAST CONCRETE GULLY - TYPES 2
IN LINE WITH SCC STANDARD DETAIL DRAWING
05.67 REV B

GULLY NOTES:

- UNTRAPPED PRECAST GULLY SHOWN IN OUTLINE
- TEMPORARY PLATE, PAVEMENT MATERIALS OVER PLATED AREA, AND THE REMOVAL WORKS SHALL BE DEEMED TO BE TEMPORARY WORKS FOR MEASUREMENT PURPOSES.
- PRECAST CONCRETE GULLY POT SHALL BE B.S.5911
- REQUIREMENTS FOR TRAPPED GULLY POT IS STATED IN GULLY SCHEDULES OF APPENDIX 5/1.
- SURFACE COURSE MATERIAL INFILL OUTSIDE OF FRAME SHALL BE COMPACTED WITH PNEUMATIC TOOLS.
- COVERS AND FRAMES SHALL COMPLY WITH BS EN 124 AS SUPPLEMENTED BY BS 7903 AND THEY SHALL ALSO BE SUPPLIED, INSTALLED AND BEDDED FOLLOWING THE GUIDANCE OF HIGHWAYS ADVICE NOTE HA104/09.
- HINGED GULLY GRATINGS SHALL BE END HINGED AS APPROPRIATE TO THE TRAFFIC FLOW.

- DO NOT SCALE FROM THIS DRAWING. IF IN DOUBT CONTACT TRAVIS BAKER LIMITED.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS RELATING TO THIS PROJECT.
- ALL DIMENSIONS SHOULD BE CHECKED ON SITE PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHOULD BE IMMEDIATELY NOTIFIED IN WRITING TO TRAVIS BAKER LIMITED.
- THE CONTRACTOR SHALL PRIOR TO CONSTRUCTION CHECK AND VERIFY THAT THE DETAILS SHOWN ON THIS DRAWING ARE FULLY COMPATIBLE WITH ANY AS CONSTRUCTED DIMENSIONS OR LEVELS. ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY IN WRITING TO TRAVIS BAKER LIMITED.
- THIS DRAWING HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE COMMISSIONING PARTY AND UNLESS AGREED IN WRITING BY TRAVIS BAKER LIMITED NO OTHER PARTY MAY USE OR RELY ON ITS CONTENTS. NO LIABILITY IS ACCEPTED BY TRAVIS BAKER LIMITED FOR ANY USE OF THIS DRAWING OTHER THAN FOR THE PURPOSE FOR WHICH IT WAS ORIGINALLY PREPARED.
- IT SHOULD BE NOTED THAT THIS DRAWING MAY INCLUDE DATA PROVIDED BY THIRD PARTIES. NO LIABILITY IS ACCEPTED BY TRAVIS BAKER LIMITED AS TO THE ACCURACY OF THIS DATA.
- THIS DRAWING SHALL NOT BE REPRODUCED IN ANY WAY WITHOUT THE WRITTEN PERMISSION OF TRAVIS BAKER LIMITED.
- PAVEMENT DESIGN IN ACCORDANCE WITH SCC HIGHWAY DESIGN GUIDE APPENDIX E AND/OR BS 7533
- ALL TRANSVERSE JOINTS SHALL BE CUT FOR KERBING, WITH VERTICAL FACES PAINTED WITH BITUMINOUS BINDER PRIOR TO THE LAYING OF BITUMINOUS MATERIAL(S).

SCC KERBING NOTES:

- WHERE KERBING IS TO BE LAID TO A RADIUS OF 12m OR LESS, THEN RADIIUS KERBS SHALL BE USED TO RADIA SHOWN IN BSEN 1340.
- (i) WHEN DEPTH FROM TOP OF FOUNDATION CONCRETE TO TOP SURFACE OF SUB-BASE MATERIAL IS 150mm OR MORE, THE FOUNDATION CONCRETE SHALL EXTEND TO THE WHOLE OF THIS DEPTH.
(ii) WHEN DEPTH FROM TOP OF FOUNDATION CONCRETE TO TOP SURFACE OF SUB-BASE MATERIAL IS LESS THAN 150mm, THE FOUNDATION CONCRETE SHALL BE 150mm THICK AND THE SUB-BASE MATERIAL SHALL BE EXCAVATED TO OBTAIN THE FOUNDATION DIMENSIONS.
- FOUNDATION AND BACKING CONCRETE DIMENSIONS MAY LOCALLY VARY AT GULLY, DUCT MARKER SLAB, AND DROPPER KERB FOUNDATION DIMENSIONS.
- EXPANSION AND CONTRACTION JOINTS, DRAINAGE HOLES OR PIPES THROUGH CONCRETE ARE AS DESCRIBED IN APPENDIX 11/1.
- THE LOCATION OF QUADRANTS, DROPPER KERBS AND OTHER SPECIAL UNITS ARE AS SHOWN ON THE DRAWINGS AND SHALL BE CONSIDERED PART OF THE PREDOMINANT ADJOINING KERB "TYPE" FOR MEASUREMENT PURPOSES.
- AS NOTE 2, BUT FOR 150mm READ 180mm.
- THICKNESS AND EXTENT OF SUB-BASE UNDER KERB FOUNDATIONS IS AS SHOWN TO THE OUTLINES STATED IN THE CONTRACT.
- KERBS SHALL BE MANUFACTURED BY A WET PRESS PROCESS AND SHALL COMPLY WITH BSEN 1340.

REV	DESCRIPTION	DATE	BY	AUTH
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CLIENT
KEEPMOAT HOMES

PROJECT
CHEADLE ROAD, UPPER TEAN

TITLE
S278 CONSTRUCTION DETAILS

DRAWN LK	AUTHORISED TW	SCALE NTS@A1	DATE 01.11.23
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PROJECT NO. 22032	DRAWING NO. 505	REV -
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STATUS.
PRELIMINARY

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