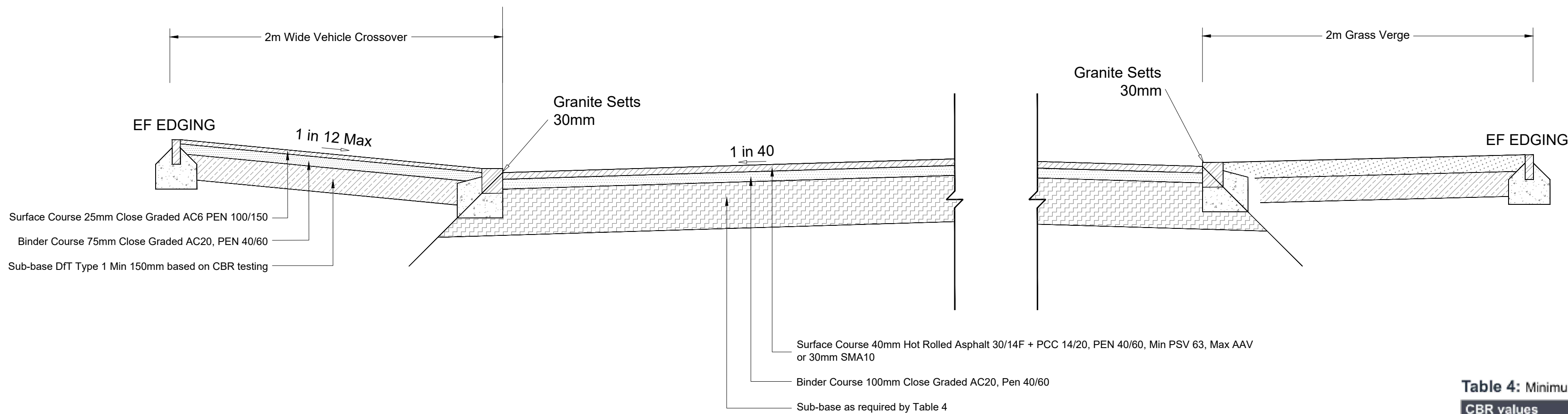
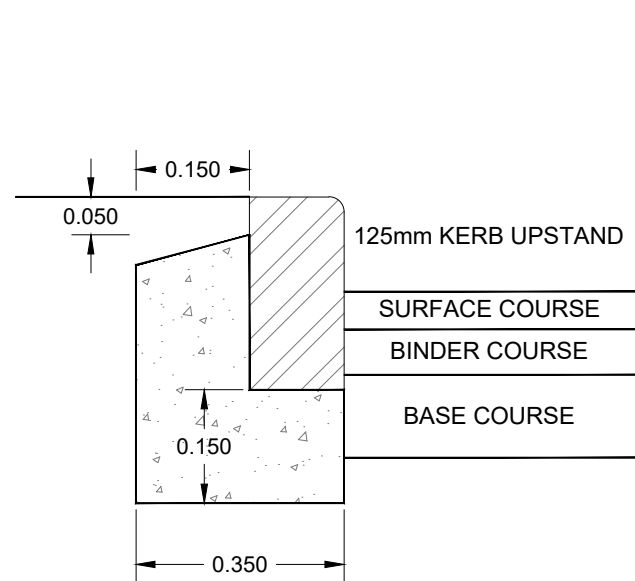


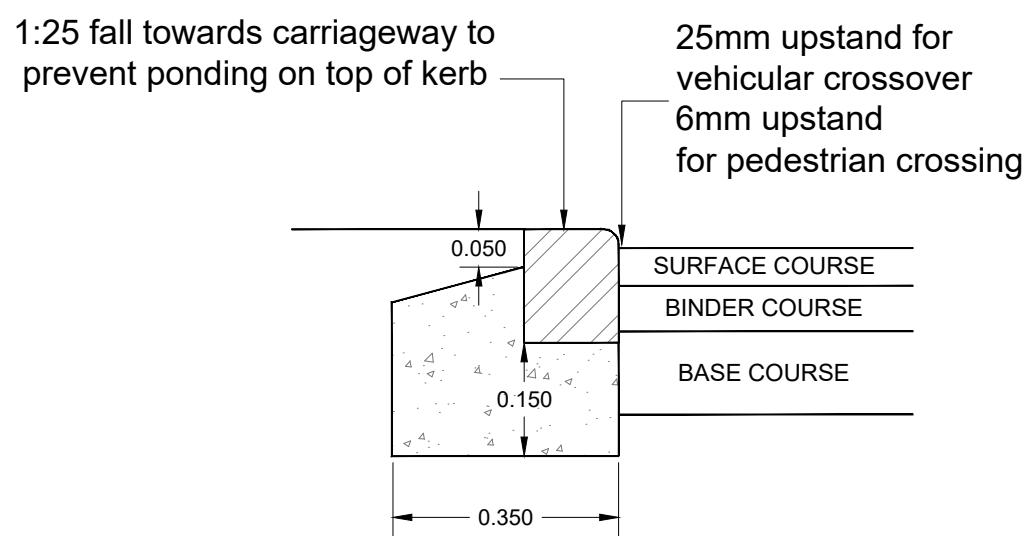


SHARED DRIVE HAVING INFREQUENT USE BY COMMERCIAL VEHICLES (Tarmac)



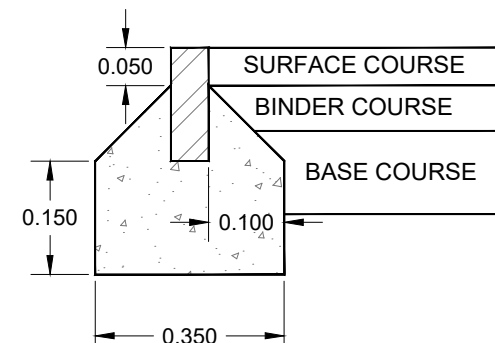
BN KERB TYPE 1

125 x 255 PCC Bbullnosed kerb to BS EN 1340 laid on 13mm mortar bed or laid bedded directly on ST4 concrete foundation whilst plastic. 150mm type 1 sub-base required beneath kerb bed and will extend back 150mm past the back of kerb haunch.



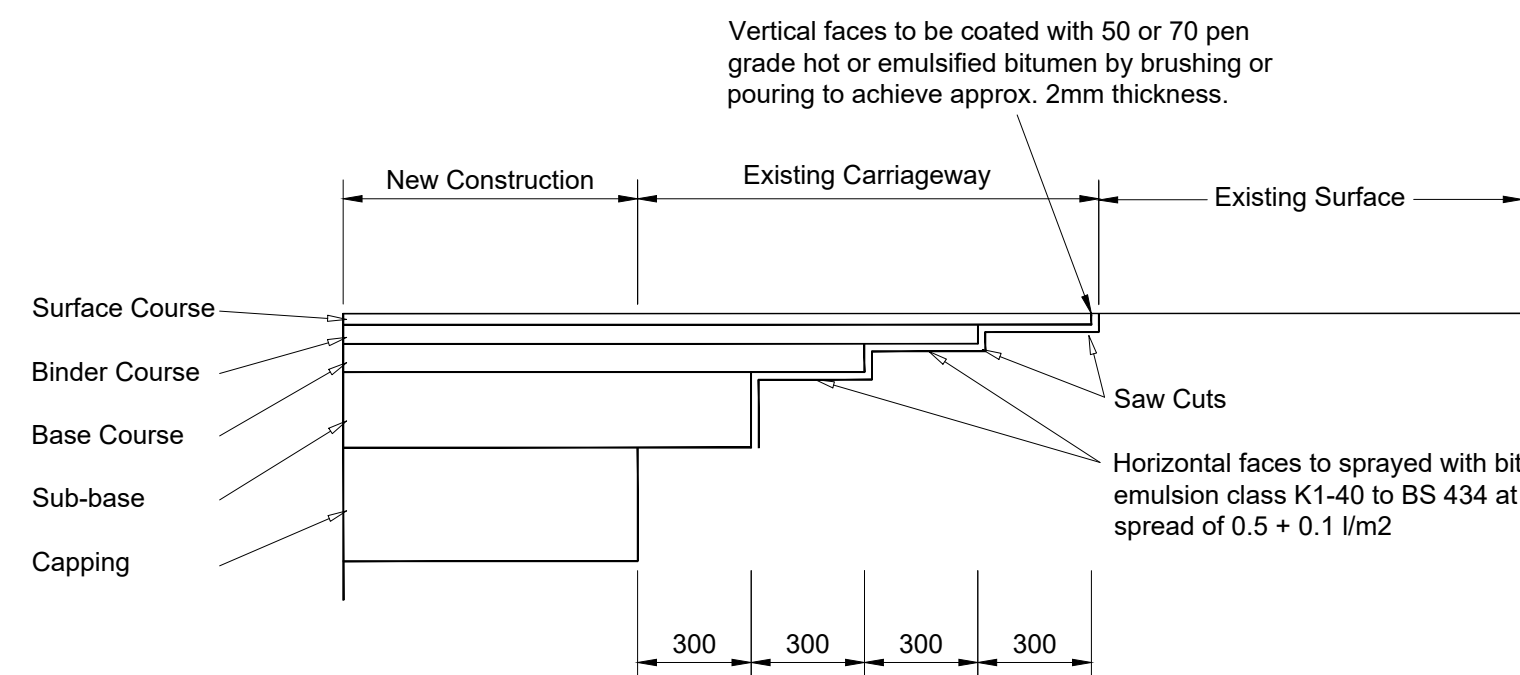
BN KERB TYPE 2

125x150mm PCC bullnosed kerb to BS EN 1340 laid on 13mm mortar bed or laid and bedded directly on ST4 concrete foundation whilst plastic. 150mm type 1 sub-base required beneath kerb bed and will extend back 150mm past the back kerb haunch.



EF EDGING KERB

50x150mm PCC flat top edging to BS EN 1340 bedded with ST4 concrete foundation. 150mm type 1 sub-base required beneath kerb bed and will extend back 150mm past the back kerb haunch.



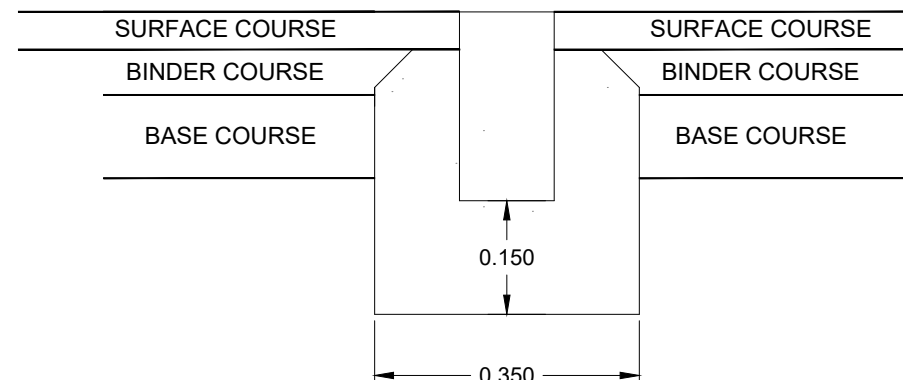
CARRIAGEWAY TIE-IN DETAIL

Table 4: Minimum sub-base thickness for paved areas

CBR values	Minimum thickness (mm) of sub-base ⁽¹⁾ (consolidated in accordance with MCHW Volume 1 Clause 801, Table 8/4)
Less than 2%	Subgrade requires improvement ⁽²⁾
2-<3%	325
3-<5%	250
5-<7%	150
7-20%	100

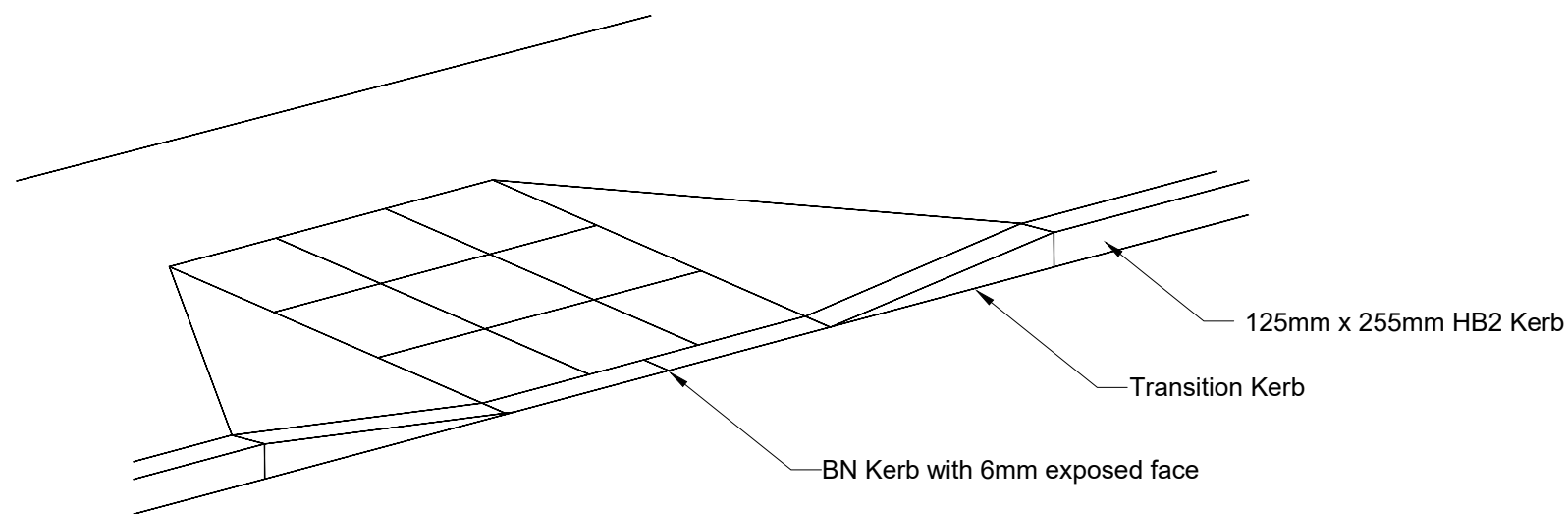
Notes

- Minimum thickness of sub-base may be considered for reduction when using proprietary geogrid, provided they can be adequately justified and designed by an engineer in accordance with Technical Requirement R5.
- Specialist advice should be sort to improve the subgrade.



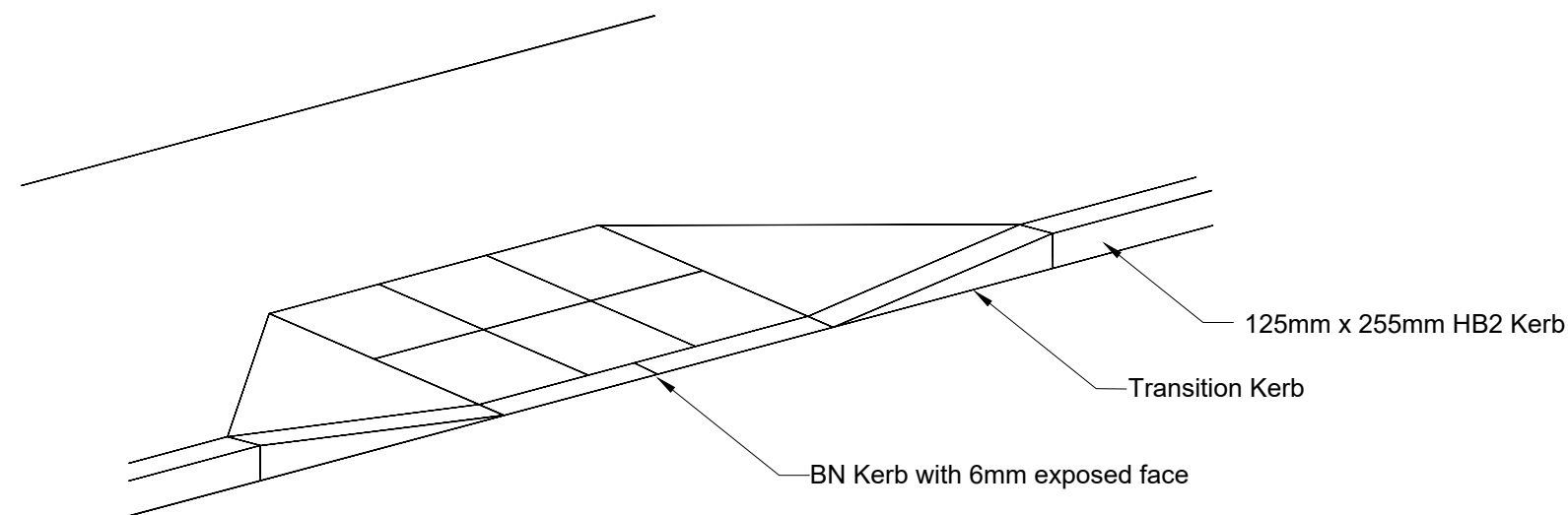
CS1 CHANNEL KERB

125x255mm PCC flat top edging to BS EN 1340 bedded with ST4 concrete foundation.



DROPPED PEDESTRIAN CROSSING

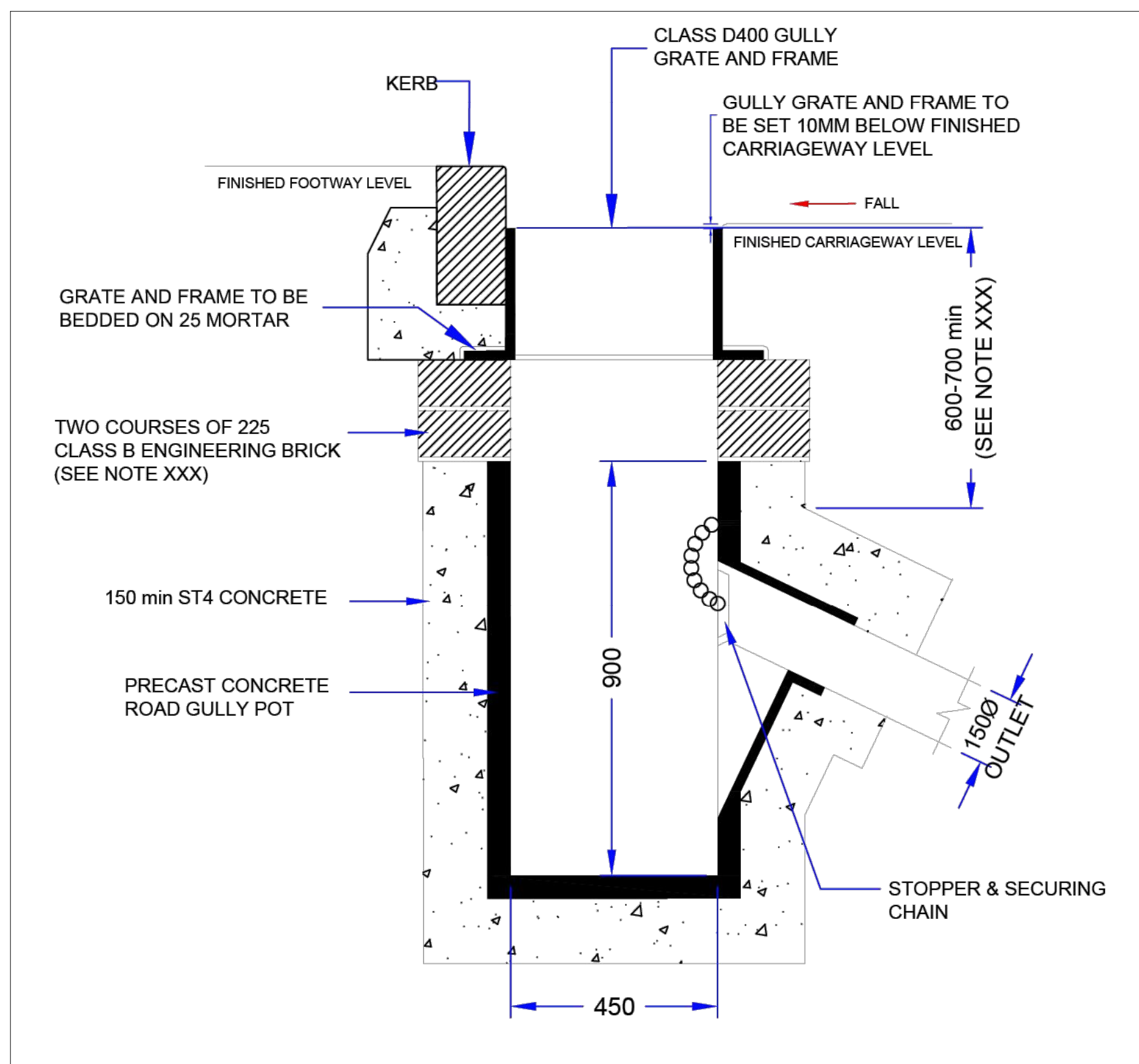
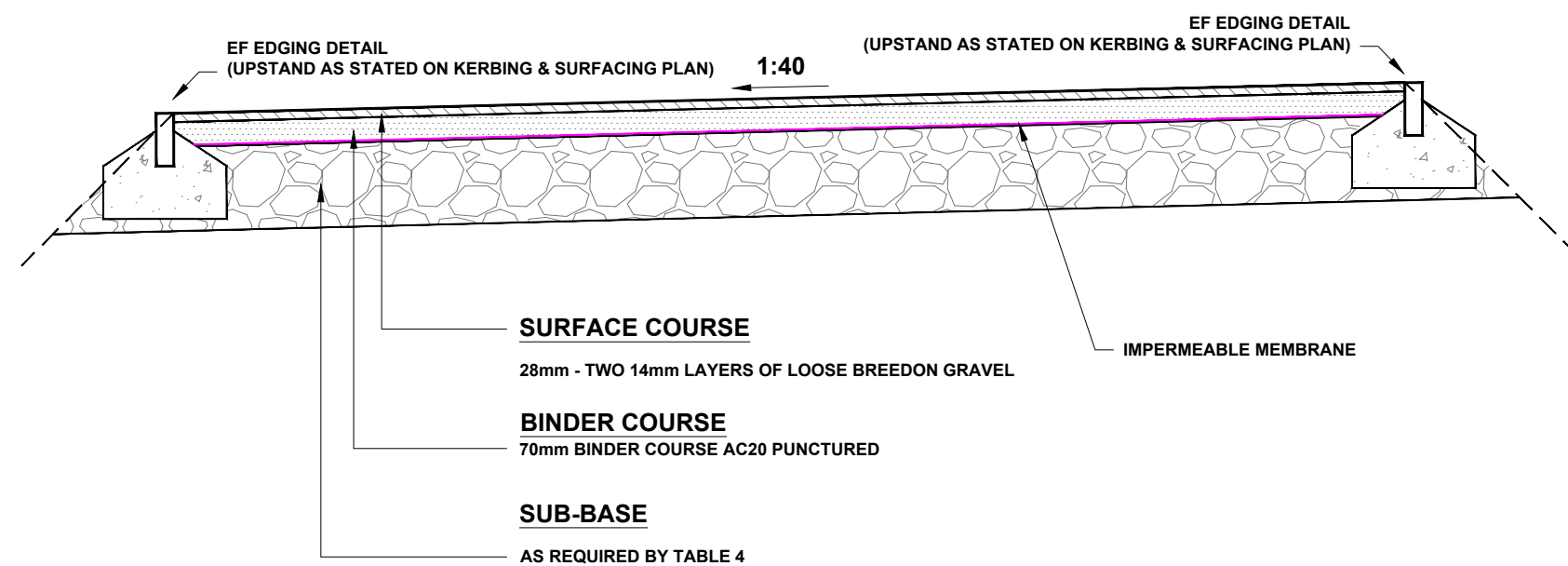
Online Crossing 3 x 3



DROPPED PEDESTRIAN CROSSING

Offline Crossing 2 x 3

GRAVEL SINGLE / DOUBLE DRIVEWAY TYPICAL CONSTRUCTION DETAIL HAVING FREQUENT USE BY CARS AND LIGHT VEHICLES (N.H.B.C. CHAPTER 10.2 TABLE 2d)



- © THIS DRAWING AND THE BUILDING WORKS DEPICTED ARE THE COPYRIGHT OF BANNERS GATE LTD AND MAY NOT BE REPRODUCED OR AMENDED EXCEPT BY WRITTEN PERMISSION. NO LIABILITY WILL BE ACCEPTED FOR AMENDMENTS MADE BY OTHER PERSONS.
- NOTES
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.
 - ANY DISCREPANCIES BETWEEN THE DETAILS SHOWN AND ACTUAL ON SITE CONDITIONS TO BE REPORTED IMMEDIATELY TO THE ENGINEER PRIOR TO COMMENCEMENT OF WORKS.
 - THIS DRAWING IS NOT INTENDED TO SHOW DETAILS OF GROUND CONDITIONS OR GROUND CONTAMINANTS. EACH AREA OF GROUND RELED UPON TO SUPPORT ANY STRUCTURE DEPICTED (INCLUDING DRAINAGE) MUST BE INVESTIGATED BY THE CONTRACTOR ANY AREAS OF FORMATION FOR SAID STRUCTURES WHICH DO NOT ACCORD WITH THE ANTICIPATED CONDITIONS AS DESCRIBED IN THE SITE INVESTIGATION REPORT ARE TO BE IMMEDIATELY NOTIFIED TO THE ENGINEER, WHERE APPLICABLE ANY SUSPECT FLUID GROUND OR GROUND CONTAMINANTS ON OR WITHIN THE GROUND SHOULD BE FURTHER INVESTIGATED BY A SUITABLE EXPERT. ANY EARTHWORKS SHOWN INDICATE TYPICAL SLOPES FOR GUIDANCE ONLY AND SHOULD BE INVESTIGATED FURTHER BY A SUITABLE GEOTECHNICAL EXPERT.
 - WHERE EXISTING TREES ARE SHOWN TO BE RETAINED THEY SHOULD BE SURVEYED TO A FULL ARBORICULTURAL INSPECTION FOR SAFETY. ALL TREES ARE TO BE PLANTED SO AS TO ENSURE THEY ARE A MINIMUM OF 3 METRES FROM BUILDINGS AND 3 METRES FROM DRAINAGE AND SERVICES, WHERE APPLICABLE. A FOUNDATION IS TO BE PROVIDED TO ACCOMMODATE THE PROPOSED TREE PLANTING, WHERE APPLICABLE.
 - SEWERS TO BE ADOPTED UNDER SECTION 10A OF THE WATER INDUSTRIES ACT 1991 SHALL COMPLY WITH THE SEWERAGE SECTOR GUIDANCE (SSG) 'DESIGN & CONSTRUCTION GUIDANCE' WITH ANY AMENDMENTS SPECIFIED BY THE ADOPTING WATER AUTHORITY.
 - ALL PIPES TO BE USED IN ADOPTABLE SEWERAGE SHALL BE EITHER CLAYWARE TO BS EN 255 OR CONCRETE TO BS EN 1916 AND BS 5911: PART 1 WITH CLASS 5 BEDDING UNLESS OTHERWISE STATED. WITH APPROVAL OF THE ADOPTING AUTHORITY SOLID WALL CONCENTRIC EXTERNAL RIB REINFORCED UPVC PIPES COMPLYING WITH THE RELEVANT PROVISIONS OF BS EN 13476 MAY BE USED.
 - WHERE COVER TO A PIPE IS MORE THAN 1200MM UNDER ADOPTABLE CARRIAGEWAY THE TRENCH SHALL BE FILLED TO FORMATION OF THE CARRIAGEWAY WITH WELL COMPACTED DTP TYPE 1 MATERIAL.
 - WHERE COVER TO A PIPE IS LESS THAN 1200MM UNDER ADOPTABLE CARRIAGEWAY IT SHALL BE PROVIDED WITH CONCRETE PROTECTION IN ACCORDANCE WITH THE SPECIFICATION OF THE ADOPTING AUTHORITY AND BACK FILLED TO FORMATION OF THE CARRIAGEWAY WITH WELL COMPACTED DTP TYPE 1 MATERIAL, WHERE CONCRETE BED AND SURROUND IS SPECIFIED FLEXIBILITY OF JOINTS IS TO BE MAINTAINED BY USING COMPRESSIBLE BITUMEN IMPREGNATED FIBREBOARD AT EACH PIPE JOINT.
 - ALL EXISTING DRAINAGE INVERT LEVELS, DIAMETERS AND LOCATIONS ARE TO BE CHECKED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY PROPOSED DRAINAGE WORK, ANY DIFFERENCE BETWEEN ACTUAL AND DRAWN DETAILS IS TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
 - POSITIONS OF EXISTING SERVICES/STATUTORY UNDERTAKERS APPARATUS ADJACENT TO OR CROSSING PROPOSED SEWERS IS TO BE CHECKED BY THE CONTRACTOR PRIOR TO STARTING WORK.

D	DETAILS AMENDED TO SUIT CLIENT COMMENTS.	LB	DA	02.10.2020
C	GRASS VERGE ADDED TO THE DETAILS.	LB	DA	06.08.2020
B	GRAVEL DETAIL AMENDED.	LB	DA	06.07.2020
A	GRAVEL DETAIL ADDED AS PER CLIENT REQUEST.	LB	DA	03.07.2020
REV.	DESCRIPTION	DRAWN	CHECKED	DATE

Banners Gate EST. 1998

ARCHITECTURAL DESIGN | CIVIL ENGINEERING | STRUCTURAL ENGINEERING
CAVENDISH HOUSE
10-11 BIRMINGHAM STREET
HALESOWEN
WEST MIDLANDS
B63 3HW

TELEPHONE: 0121 687 1500
EMAIL: MAIL@BANNERSGATE.COM

DRAWING STATUS:

PLANNING

CLIENT:

WESTBOURNE HOMES

PROJECT TITLE:

LADDS GARDEN CENTRE
BATH ROAD, HARE HATCH

DRAWING TITLE:

INFRASTRUCTURE CARRIAGEWAY
CONSTRUCTION DETAILS -
SHEET 1 OF 2

SIZE:

A1

SCALE:

1:20

DESIGNED: LB

DRAWN: LB

CHECKED: DA

APPROVED: DA

DATE:

21/05/26

PROJECT NUMBER:

26032

DRAWING NUMBER:

BGC - PL10

REVISION:

D