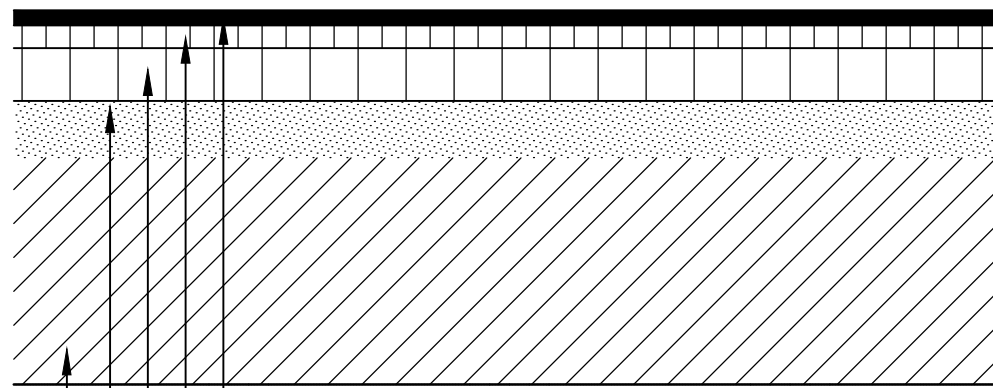




Adoptable Asphalt Construction for Minor Access

(1:20 @ A1/ 1:40 @ A3)

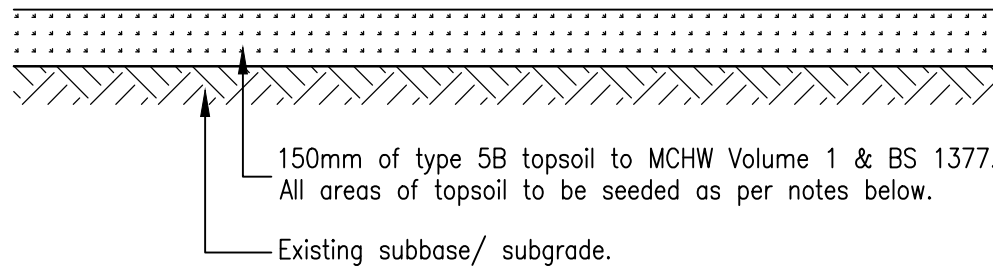
Minor Access CBR Table			
CBR at formation level	Sub-base Only Type 1 (mm)	Sub-base + Capping Type 1 (mm)	6F2 (mm)
CBR<2.5%	—	150	600
2.5%≤CBR<5%	350	150	350
5%≤CBR<15%	225	—	—
15%≤CBR<30%	150	—	—
30%≤CBR	—	—	—

Asphalt Road Construction based on HCC guidance

- * If Sub-grade is tested as frost sensitive minimum construction of pavement to be 450mm.
- * Sub-base and/or capping depths to be determined by insitu CBR test at subgrade level located at proposed bellmouth. Result to be submitted to PTA engineer for review. 2.5% CBR Anticipated.

HRA Chipping spec:

14/20mm pre-coated chippings with a minimum PSV value of 68+ with a spread rate achieving a texture depth in accordance with Series 900 table 9/3. In accordance with BS EN 13108-4, PD 6691, BS 594987 Coarse Aggregate to be crushed rock or slag, excluding limestone and gravel. Aggregate Grading to PD 6691 Table C.5 Column No.: 14/20 size. Flakiness Index: F120. Maximum AAV: 12.



Highways Verge Construction

(1:20 @ A1/ 1:40 @ A3)

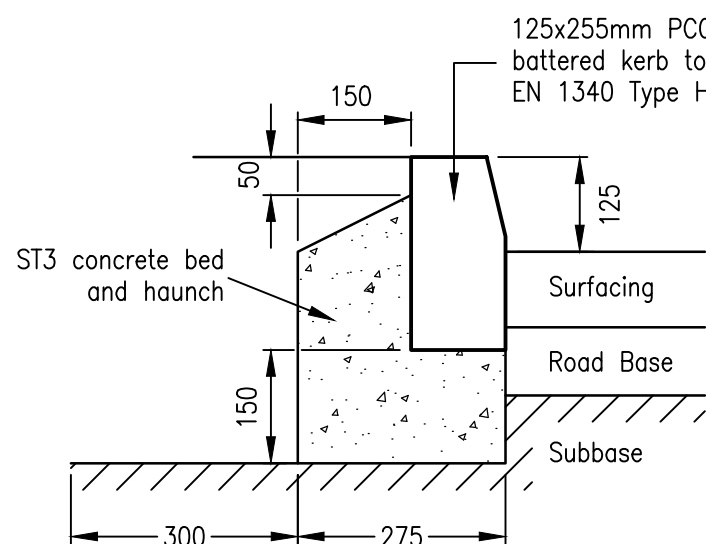
Type 5B Topsoil

Topsoil shall be deposited, spread in layers not exceeding 100mm and shall be firmed (not compacted) as work proceeds. Finished level of topsoil after settlement shall be 25mm above adjoining kerbs and paving. During fallow periods prior to seeding, the ground shall be kept substantially weed free.

Seed Mixture

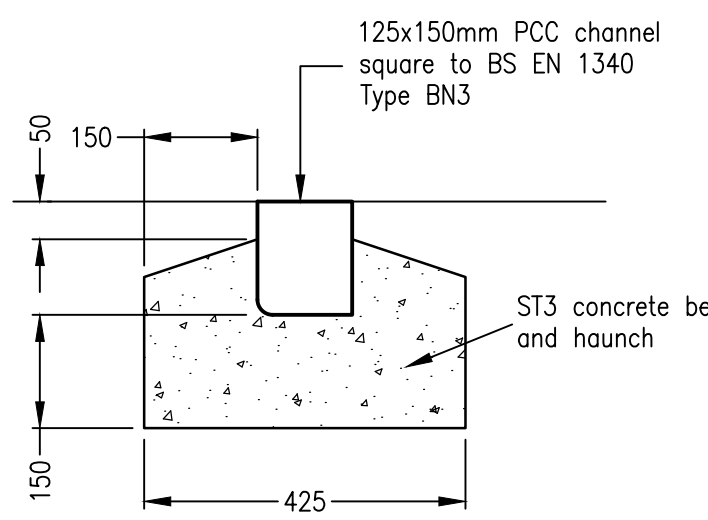
All areas of topsoil should be seeded. The rate of sowing to be greater than 20g/m2 and the sown area watered regularly until the growth is substantial. Grass seed shall be a tested mixture from an approved source and certificated of purity and germination made available when requested by HCC. Grass mixture to be Type B as per the table below.

Type B Seed Mixture	
Smooth Stalk Meadow Grass (Poa pratensis)	57%
Creeping red fescue (Festuca rubra rubra)	33%
Browntop (Agrostis tenuis)	4%
White clover (S.100)	6%



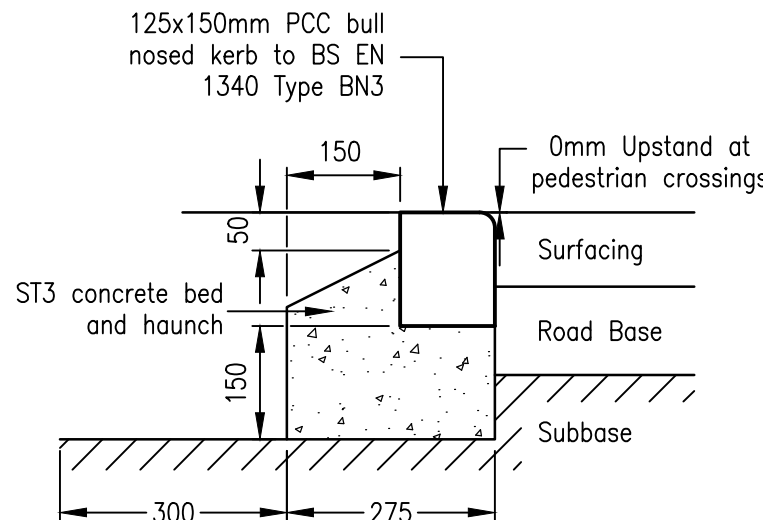
Kerb Type HB2 Half Battered Kerb Detail

(1:10 @ A1/ 1:20 @ A3)



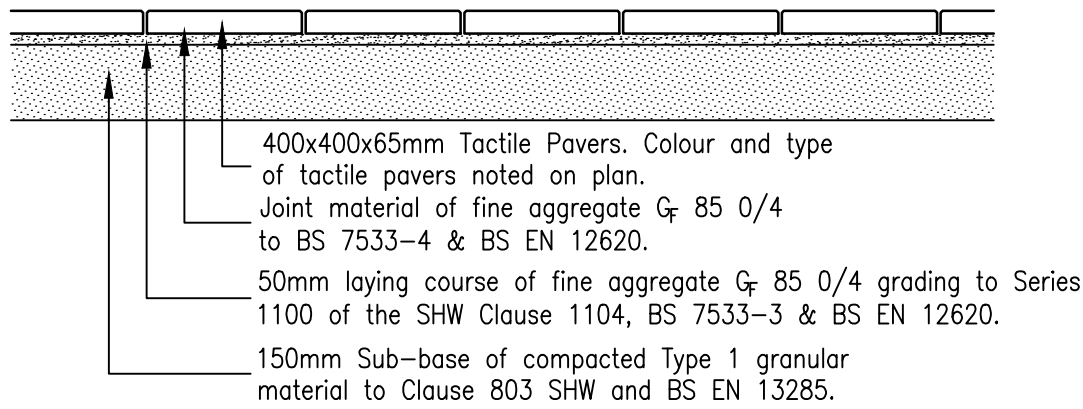
Kerb Type BN3 Inverted Bull Nosed Kerb Detail

(1:10 @ A1/ 1:20 @ A3)



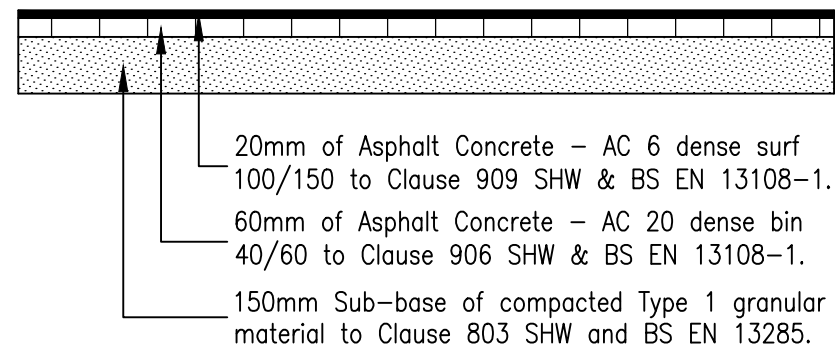
Kerb Type BN3 Bull Nosed Kerb Detail

(1:10 @ A1/ 1:20 @ A3)



Tactile Paving Slabs Construction

(1:20 @ A1/ 1:40 @ A3)

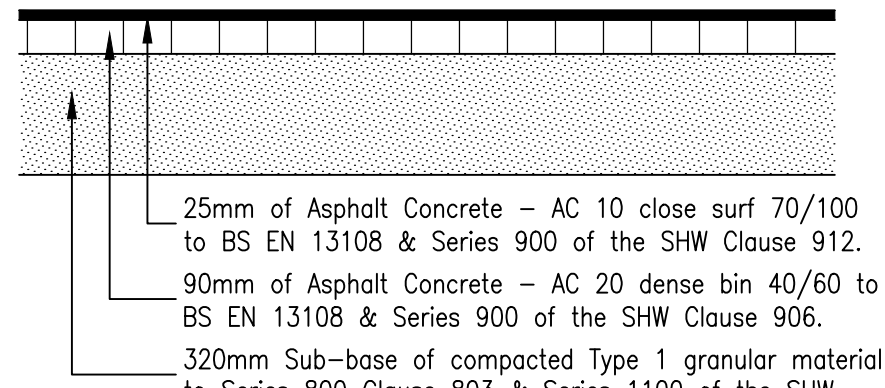


Adoptable Asphalt Footway Construction

(1:20 @ A1/ 1:40 @ A3)

NOTES:

- Proposed asphalt footway construction based on HCC guidance for Pedestrian-only footways and cycle-only cycleways with 2.5% subgrade CBR.



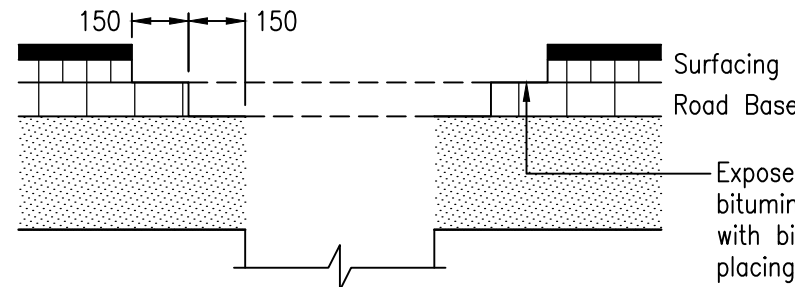
Adoptable Asphalt Footway Construction with Potential Vehicular Overrun

(1:20 @ A1/ 1:40 @ A3)

Asphalt Footway with Potential Vehicular Overrun CBR Table	
CBR	Sub-base thickness (mm)
2.5%≤CBR≤4%	320
4%≤CBR	210

NOTES:

- Proposed asphalt footway construction designed in accordance with DMRB CD 239 Revision 1 for Heavy-vehicle footways and cycleways with 2.5% subgrade CBR.
- Refer to CBR table for sub-base thickness for other subgrade CBR values.

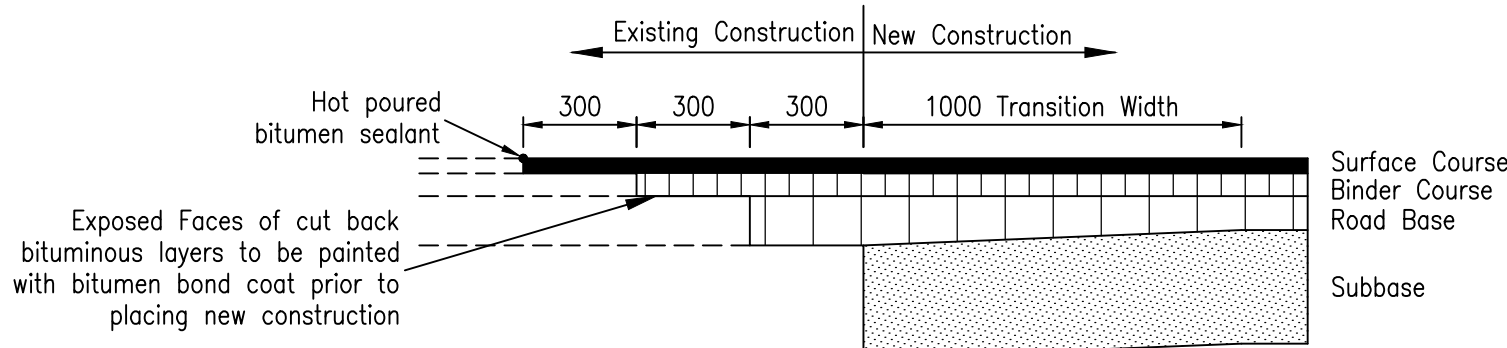


Trench Reinstatement Detail

(1:20 @ A1/ 1:40 @ A3)

Bituminous layers reinstated to be

- 40mm Hot Rolled Asphalt (HRA) 30/14 F Surf 40/60 to BS EN 13108-4 with 14/20mm pre-coated chippings (HRA chipping spec as per adoptable asphalt construction for minor access) on
- 60mm of Asphalt Concrete (AC) 20 dense bin 40/60 to Clause 906 SHW & BS EN 13108-1:2006 on
- Asphalt Concrete (AC) 32 dense base 40/60. Depth of Asphalt base to be 190mm deep (20msa with foundation class 2 to CD 226) or to match existing road base depth, which ever is greater.

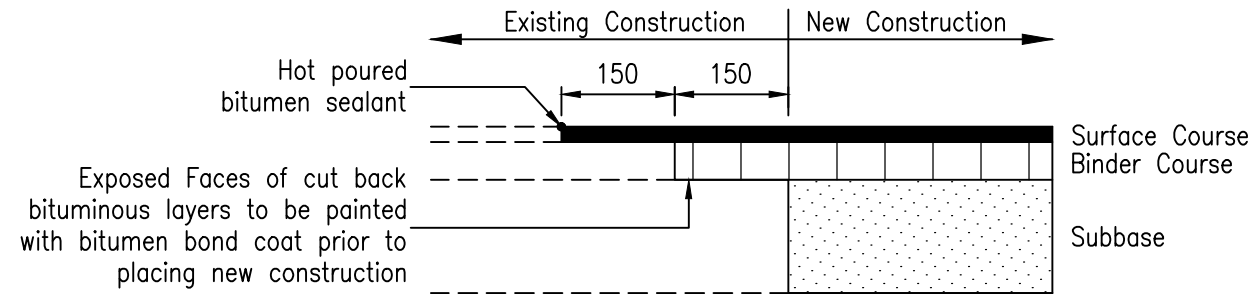


Asphalt Carriageway Tie in Detail

(1:20 @ A1/ 1:40 @ A3)

Bituminous layers reinstated to be

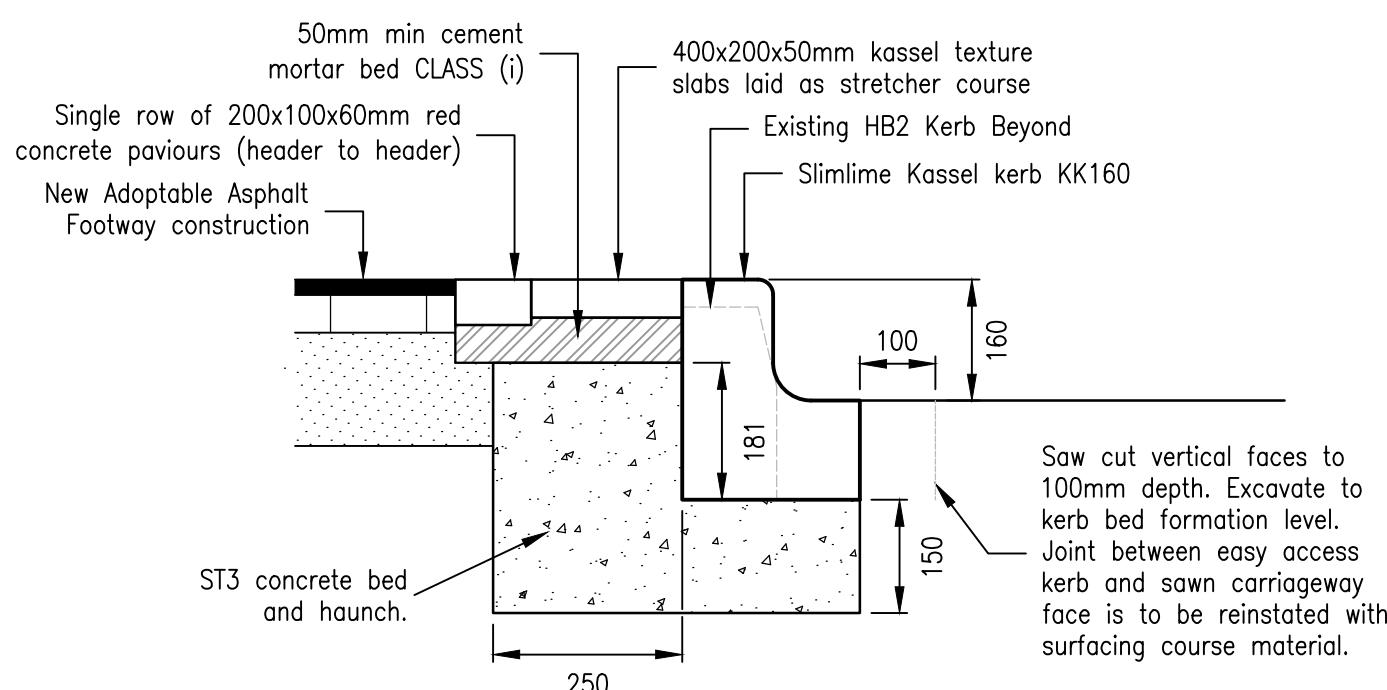
- 40mm Hot Rolled Asphalt (HRA) 30/14 F Surf 40/60 to BS EN 13108-4 with 14/20mm pre-coated chippings (HRA chipping spec as per adoptable asphalt construction for minor access) on
- 60mm of Asphalt Concrete (AC) 20 dense bin 40/60 to Clause 906 SHW & BS EN 13108-1:2006 on
- Asphalt Concrete (AC) 32 dense base 40/60. Depth of Asphalt base to be 190mm deep (20msa with foundation class 2 to CD 226) or to match existing road base depth, which ever is greater.



Asphalt Footway Tie in Detail

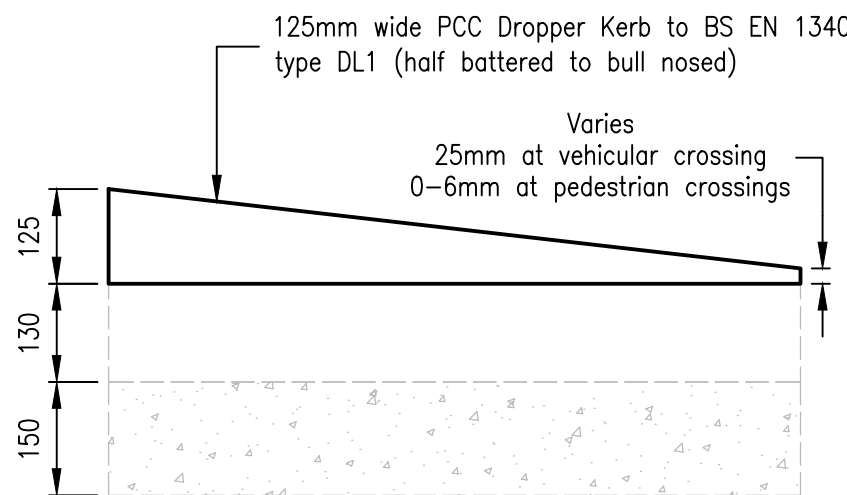
(1:10 @ A1/ 1:20 @ A3)

Bituminous layers reinstated to be equivalent to adoptable asphalt footway construction.

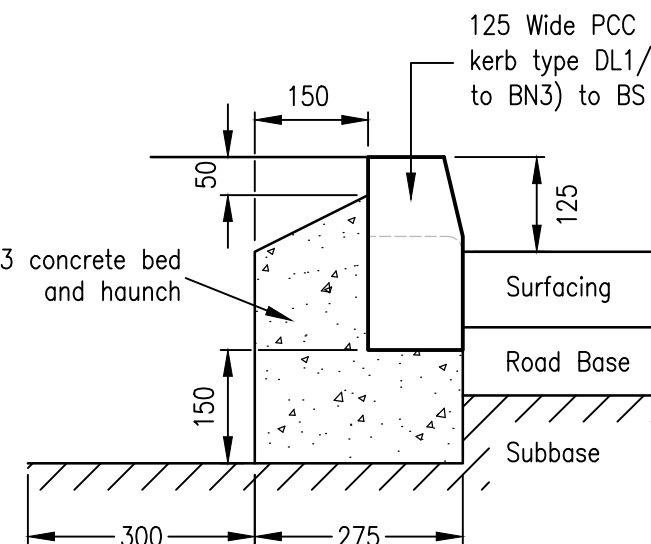


Kassel Kerbs - Bus Stop Easy Access Kerb Detail

(1:10 @ A1/ 1:20 @ A3)



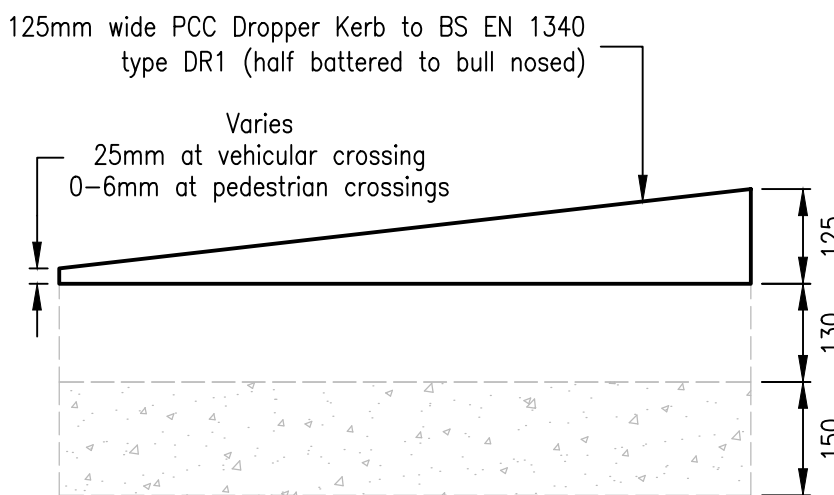
Kerb Type DL1 Left Hand Dropper Kerb



Dropper Kerb Section

Dropper Kerb Details

(1:10 @ A1/ 1:20 @ A3)



Kerb Type DR1 Right Hand Dropper Kerb

Notes:

- Do not scale from this drawing.
- In case of any discrepancies in drawings, details or bills, refer to engineers for clarification: unilateral decisions by the Contractor will not be accepted.
- This drawing is to be read in conjunction with all related Architects, Consultants & Sub-Contractors drawings and specifications.
- The Contractor is advised that all design drawings and information are to be read concurrently and any discrepancies or omissions reported directly to PTA's Civil Engineering Department.
- Weed killer to be applied to footway subgrade.
- Surfacing laid to true levels and crossfalls shown on levels drawing. Tolerance in surface levels of lower pavement courses to be:
 - Sub-base ±10mm
 - Binder ±3mm

Technical Approval Granted 26.01.24.
Commencement of works subject to signed S278 agreement & Permit to Work.

Pavement construction details are designed for a formation level CBR of 2.5%. Contractor is to undertake insitu CBR testing at sub-grade/ formation level to confirm actual conditions on site. Results are to be sent to HCC & PTA for review.

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DRAWING STATUS

FOR CONSTRUCTION

REV	DESCRIPTION	BY	DATE	CHK'D
C01	Issued for Construction	TA	26.01.24	AH
P05	Topsoil Seeding Spec & CBR Testing Note Added	TA	17.11.23	AH
P04	Updated Following HCC Design Review 2	TA	06.03.23	AH
P03	Updated Following HCC Design Review	TA	07.12.22	AH
P02	Details Updated	TA	07.07.22	AH
P01	First Issue	GW	01.10.21	AH

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PROJECT TITLE

Bedford Road, Ickleford
Hertfordshire

DRAWING TITLE

S278
Construction Details

DATE	Oct 21	CHECKED DO	CHECKED ENG	PTA PROJ No
DRAWN	TA	TA	AH	9607
SCALE	As Shown	TA	AH	REVISION
DRG SIZE	A1			C01

DRAWING No

00061-8460-C- S278 -DET

Consulting Civil & Structural Engineers



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