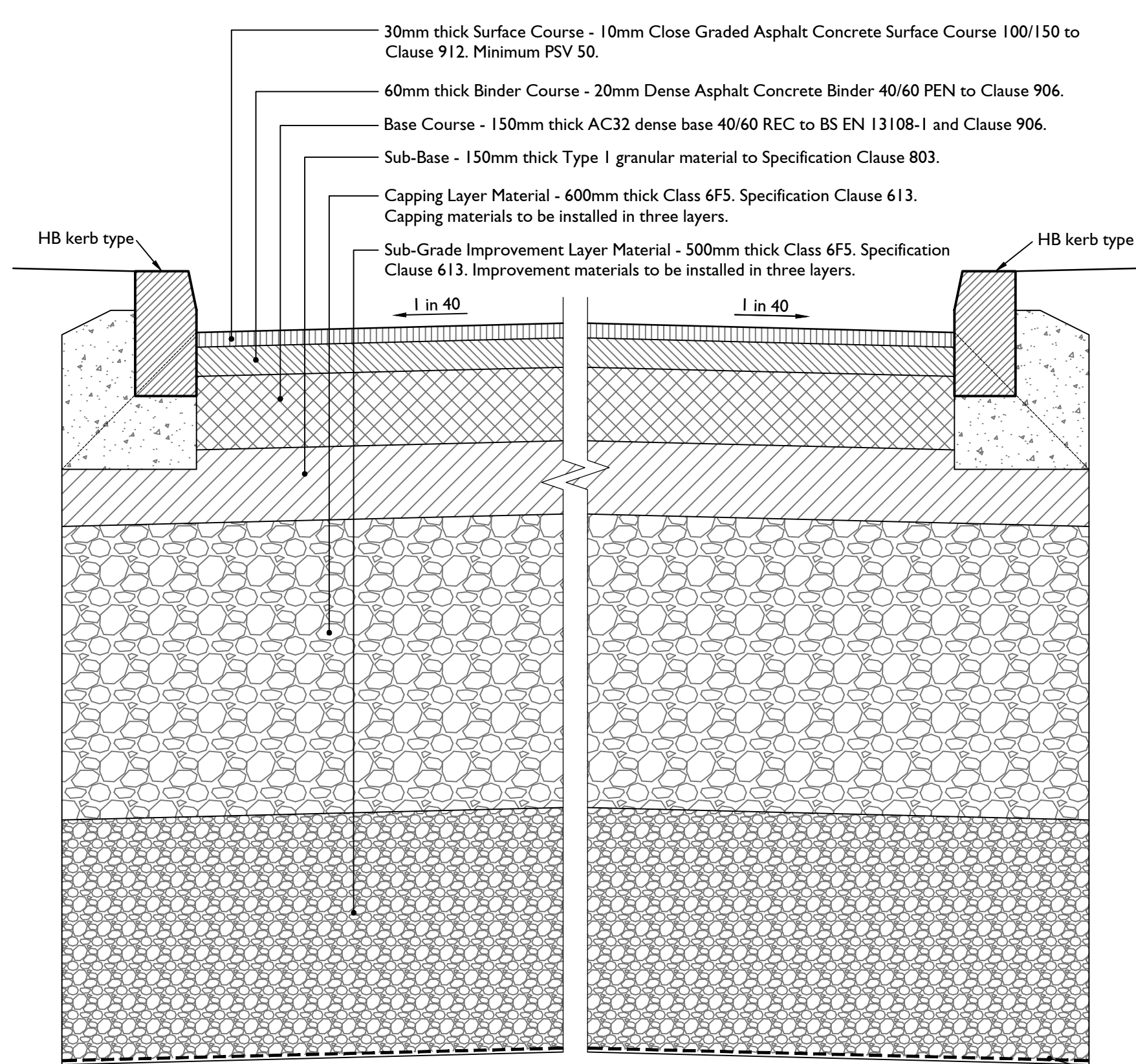
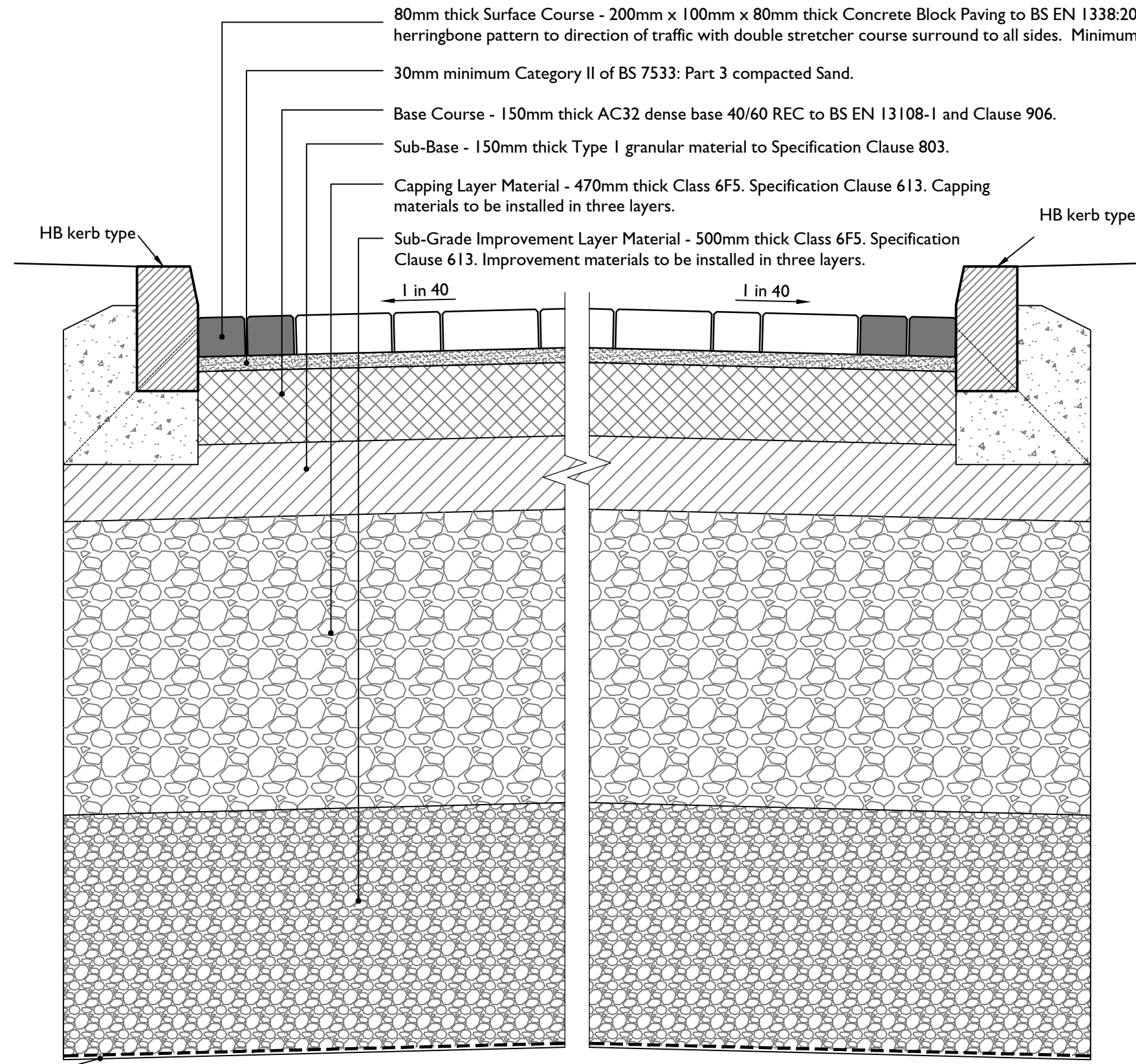
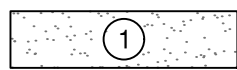




Adoptable Bitmac Carriageway Construction Detail

Access Road (<200 dwellings)

Based on West Sussex County Council drawing number S278/38/21 Revision F.



Adoptable Block Paved Carriageway Construction Detail

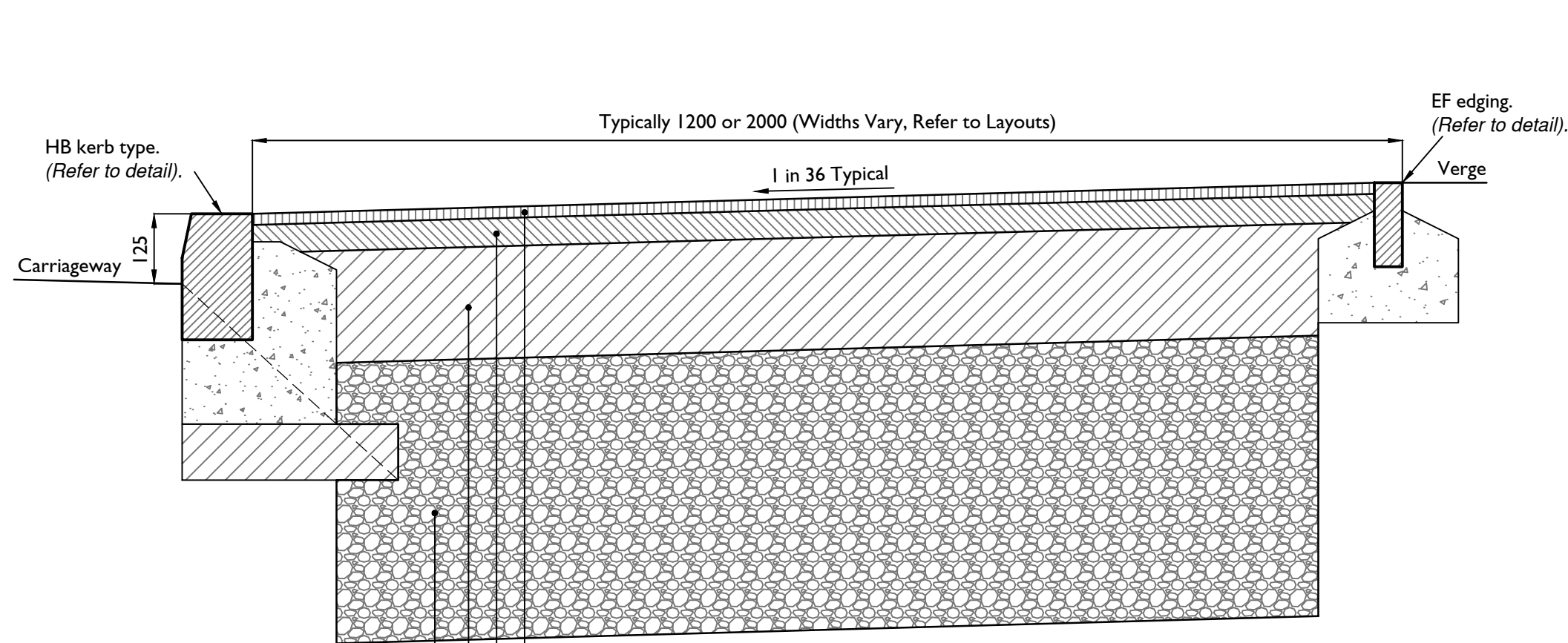
Access Road (<200 dwellings)

Based on West Sussex County Council drawing number S278/38/21 Revision F.

Adoptable Block Paved Carriageway Construction.
(With White Blocks to Demarcate Parking Spaces).



Adoptable Block Paved Carriageway Construction.

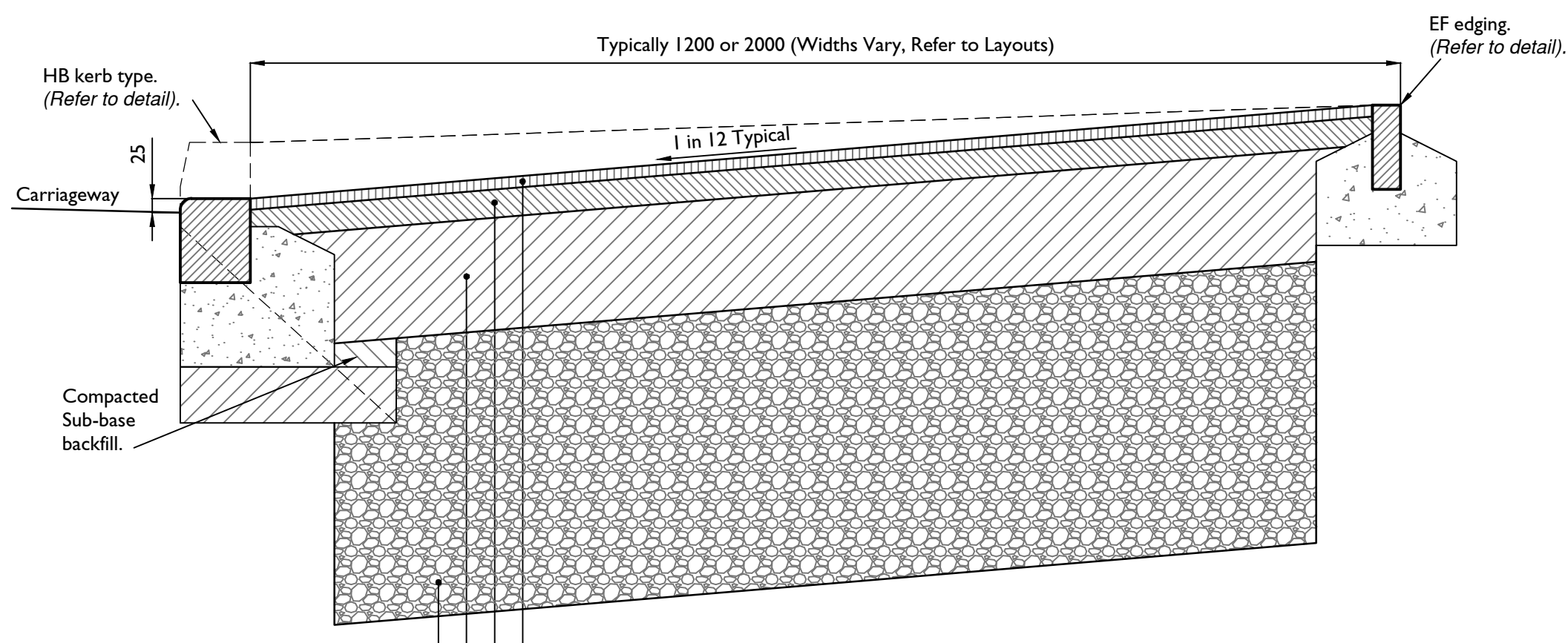
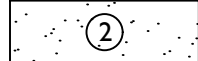


Adoptable Bitmac Footway Construction Detail

Based on West Sussex County Council drawing number S278/38/04 Revision B.

Refer to External Works Layouts for extents.

Adoptable Bitmac Footway Construction

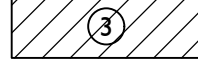


Adoptable Bitmac Crossover Construction Detail

Based on West Sussex County Council drawing number S278/38/07 Revision C.

Refer to External Works Layouts for extents.

Adoptable Bitmac Crossover Construction



CBR Table	
Design CBR	Capping Layer Thickness (mm)
> 2.5% - 5%*	350

* Where CBR value is less than 2% in soft spot areas, a bespoke design is required in accordance with IAN 73/06.

Notes:

- PSV of the footway / cycleway surface material should be a minimum of 55 PSV.
- Prior to the commencement of laying the formation shall be treated with an approved residual weedkiller.
- The Highway Inspector may request inclusion of a non-woven separation membrane to mitigate weed/root intrusion.

"No Dig" Zones:

Where it is necessary to provide footways or footpaths within a tree root protection zone, the designer must use this detail or otherwise comply with the following requirements:

- No tree roots are to be severed
- Existing soil must not be compacted
- The construction must allow aeration and run-off

Specialist advice is to be sought in conjunction with approval from West Sussex Tree Officer. Cellweb (or similar approved) may be used, in accordance with manufacturer's specifications.

NOTES

- This drawing is to be read in conjunction with other S38 Highways Construction Details, Highways Contours Layouts (CIV-4231 to 4235), Highways Setting Out Layouts & Coordinate Listings (TBC) and External Levels Layouts (CIV-4401 to 4405).
- All dimensions are in millimetres unless stated otherwise.
- Do not scale from this drawing. Only written dimensions are to be used.
- LEAP Environmental Sealed CBR Testing Report Reference AS/25/3750877, dated 30th April 2025 recommends a design CBR Value of 7%. Total Carriageway construction depth must be greater than 450mm to negate susceptibility to frost penetration, irrespective of CBR value.
- Adoptable highways works to be constructed in accordance with West Sussex County Council standards and specifications and the Department of Transport 'Specification for Highway Works'.
- Clause numbers refer to clauses in the Department of Transport's Specification for Highway Works 2005 and WSCC Model Contract Specification.
- No works shall commence within the existing public highway until the Agreement is signed.
- An approved weedkiller (harmless to humans, animals and insects) is to be applied (as per manufacturer's recommendations) to all prepared formation levels of new carriageway and footways and/or as directed by the Highways Inspector.
- Any damage caused to the existing highway during the course of the works to be repaired as directed by the Highways Inspector and/or Area Engineer.
- No private surface water runoff shall be permitted to discharge onto the adoptable highway, or vice versa. Cut-off drains, channels and/or gullies shall be used to intercept any conflicting water.
- Any new trees within 3.0m of the proposed highway shall have their roots restrained by root barriers as directed by the Highways Inspector.
- Contractor to provide suitable and effective wheel washing facilities to prevent mud from being conveyed onto the public highway and to provide the means to clean the highway to the satisfaction of the Highways Inspector, Area Engineer and/or Local Authority.
- No concrete to be poured or laid in temperatures below 2 deg C on a falling max/min thermometer or before the temperature reaches 2 deg C on a rising max/min thermometer (to be provided by the Contractor and displayed in a position agreed by the Highways Inspector).
- All bollards shall be approved by the highways inspector prior to their installation.
- No private apparatus (gullies, rodding eyes, boxes, chambers, ect.) shall be allowed to be located within the adoptable highway.
- All road signs and markings to comply with The Traffic Signs Regulations and General Directions 2016. Road Markings to be thermoplastic.
- Contractor to comply with Chapter 8 of the Traffic Signs Manual 2009.
- Tactile paving to comply with the Guidance on the use of Tactile Paving Surfaces 2021. Tactile Pedestrian Crossings to have a 6mm (maximum) upstand (not flush). Actual layout of tactile paving to be agreed on site with the Highways Inspector prior to laying slabs.
- All street lighting to be installed per West Sussex County Council's lighting specification.
- Supplies to street lighting columns are to be provided by the DNO.
- Kerbs to be butt jointed. Where kerb alignments incur 'minor open joint taperters' between formed surfaces mortar jointing shall be used as directed by Highway Inspector.
- All full length PCC kerbs are to be mechanically handled.
- All precast Kerbs & Edgings shall be to BS EN 1340 & laid to BS 7533-6.
- All sets of natural stone shall be to BS EN 1342 and laid to BS 7533-7.
- All kerb and edging bed and backing to be concrete Class ST1 (C6/R) well compacted. Unless otherwise stated this shall be a minimum bed thickness of 150mm. Carriageway marking demarcation CS1 / concrete setts to be ST4 (C16/20).
- The minimum length of any cut kerb shall be 450mm.
- The correct radius kerbs shall be used for all radii of 12m or less. For radii between 12m and 20m, 600mm long straight units shall be used. Radius kerbs shall be used to form corners of laybys and tapers.
- The appropriate 914mm long precast concrete transition kerb shall be installed at each change in kerb type, tie-ins to existing and at terminations.
- All external angles on HB kerbs to be quadrants. Suitable quadrant kerbs shall be used to form corners of square areas and refuge islands.
- Bituminous materials to comply with relevant Clause No. in BS4987 - 2003.
- Kiln dried sand jointing to be used in accordance with BS7533.
- Refer to geotechnical report for sulphate resisting class and ACEC class.
- Mortars shall be designation (ii) or (iii). Clause 2404 SHV.
- Mortar pigments shall comply with BS EN 12878.
- Bricks to be engineering Class B to BS EN 771-1 and Clause 2406 laid in Class 1 mortar to Clause 2404 in radial bond.
- All gully grating and frames to be 'hinged' heavy duty ductile iron minimum grade D400 in accordance with BS EN 124: 1994 of section 508 of the Specification of Highway Works.
- Gully pots used for carriageway gullies, shall be of precast concrete using sulphate resisting cement (SRC) in accordance with BS 5911, part 230, 2004.
- All buried concrete to be Ciii/A or B-S or Ciii A or B to BS 8500-2, Table 1 and Annex A.
- Unless specified on the layout drawing, where the outlet pipe is under the carriageway, or in the verge less than 2000 from the carriageway edge, it shall be given a min. 600mm cover and shall have a bed Type Z. Where the outlet pipe is under the verge and is greater than 2000 from the edge of carriageway it shall have a min. 450mm cover.
- Concrete lintels are not to be used.

CDM NOTES

- EXISTING SERVICES: Depth of existing services must be determined prior to works commencing. The contractor is responsible for establishing underground services in accordance with HSE Guidance note HS (G) 47. Any services which would be within the proposed construction layers must be lowered to below the sub-base.

Rev Note

TENDER ISSUE

SUBJECT TO ADOPTING AUTHORITY APPROVAL

Scale @ A1:

Not to Scale

Rev Date Drawn Checked Authorised

Project: Crawley Down Road, Felbridge

Title: Adoptable Highways Construction Details Sheet 1

Client: BARRATT HOMES

Date: JUNE 2025 Drawn by: LAD

Checked by: LAD Authorised by: TRS

Dwg No: CIV-4218 Rev:

