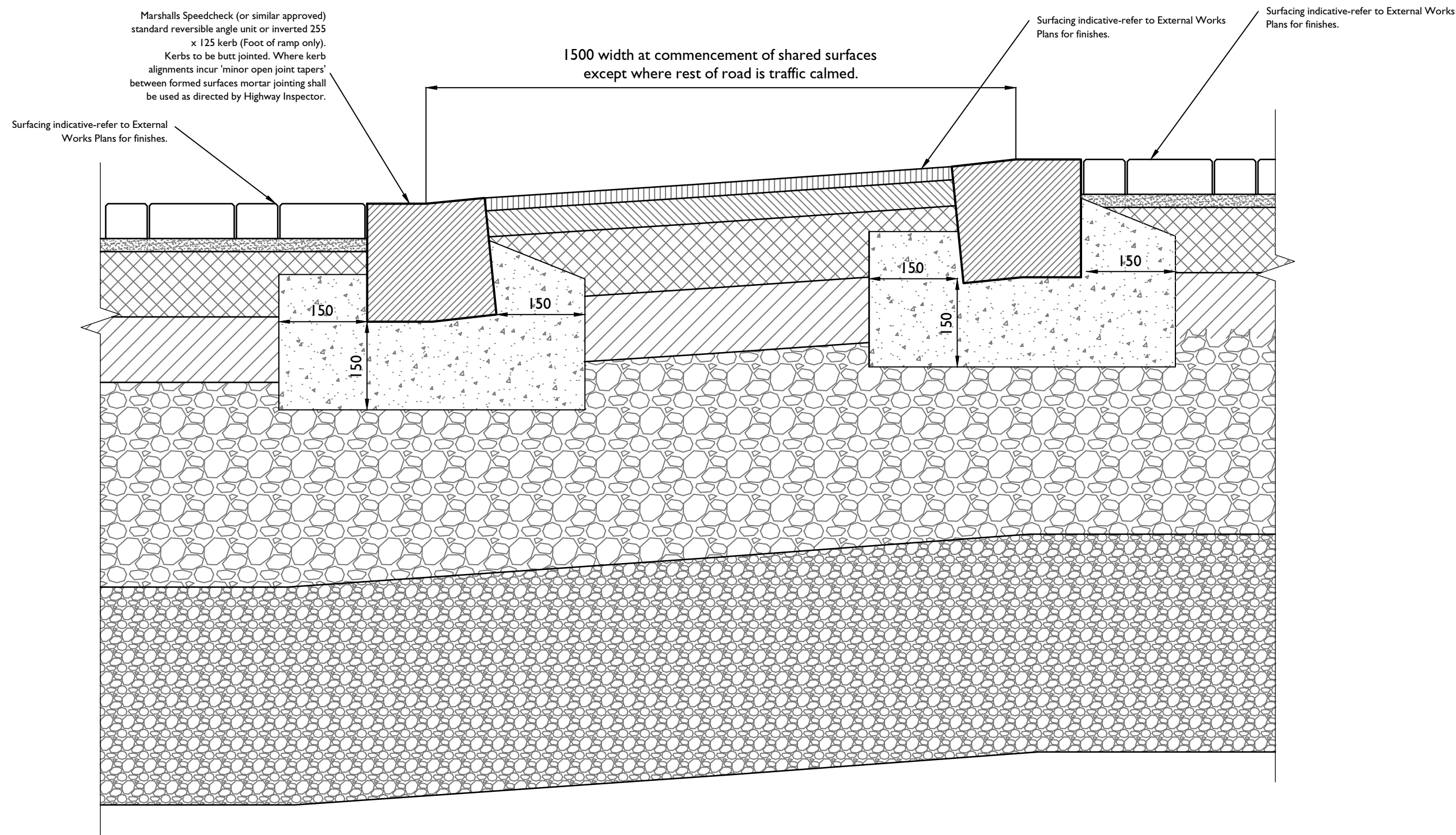
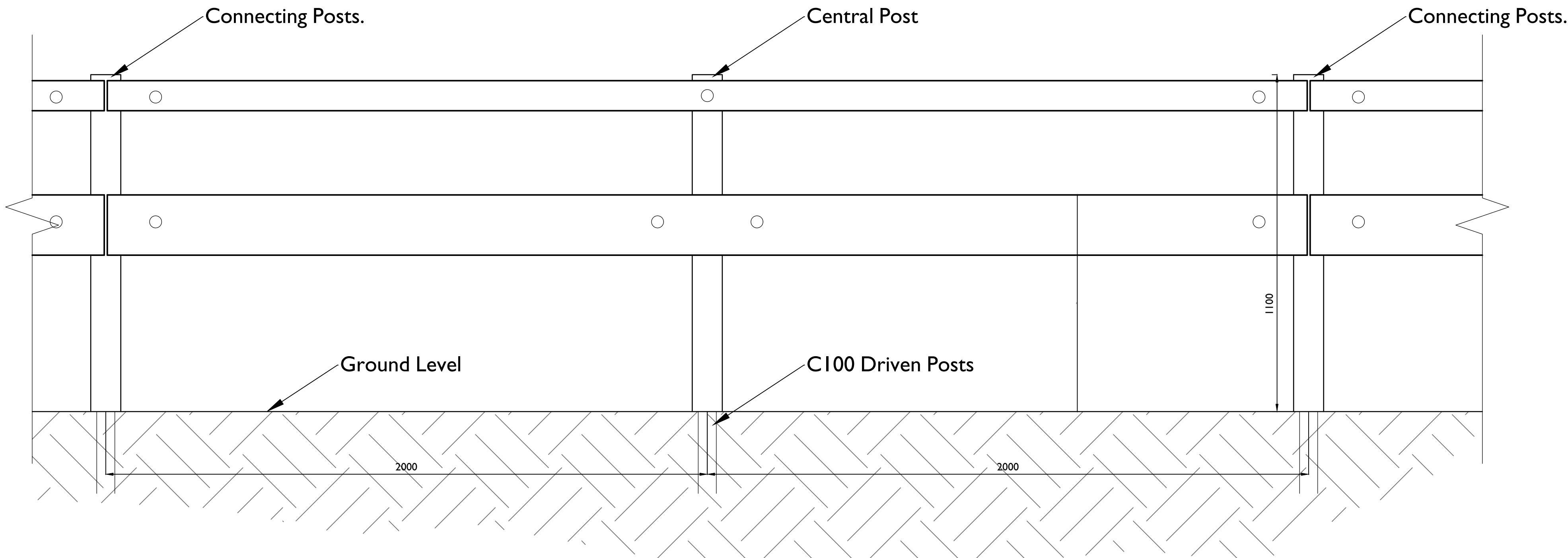




Adoptable Ramp Construction Detail A

Where Carriageway is Block Paved into a Bitmac Ramp.

Based on West Sussex County Council drawing number S278/38/16 Revision D.



Timber VRS with Pedestrian Rail

As per Highway Care Ltd TERTU T22 4MS2 with Hand Rail.

Install as per Manufacturers guidance.

Subject to approval from West Sussex County Council

NOTES

- This drawing is to be read in conjunction with other 538 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 Scaled CBR Testing Report Reference AS/25/1750877, dated 30th April 2025 recommends a design CBR Value of 1%. 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 tapers' 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 (C6/8) 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.
- Grading of granular sub-base material to comply with BS1377 - 2022.
- Where the Subgrade is shrinkable clay and trees have been removed or are to be planted/retained within 10m of the carriageway, geogrids shall be installed between the the capping & the sub-base layers, eg Tensar Triax TX160 or equivalent approved.
- On heavy clay soils, or where new planting is to be undertaken adjacent the footway, the sub-base/capping layer beneath the footways shall be as for the adjacent carriageway and a geotextile will be required surrounding the sub-base/capping layer to limit problems with cracks arising from shrinkage or swelling.
- Overall thickness should not be less than 450mm due to frost susceptibility.
- Cut blocks to be no less than 1/3 block.
- Block pavers to be specified in terms of minimum 'Polished Paver Value' (PPV) and results submitted to engineer. Min value of 55.
- A water based biodegradable sealant from approved supplier shall be used to prevent loss of sand.
- Kin 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 Highways 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 Cii/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

Project: Crawley Down Road, Felbridge

Title: Adoptable Highways Construction Details Sheet 3

Client:



Date: JUNE 2025

Drawn by: LAD

Checked by: TRS

Authorised by: TRS

Dwg No: CIV-4220

Rev:



Infra Engineering Practice Limited - Connaught House, 24 Guildford Road, Bagshot, Surrey GU19 5JN - Telephone 01274 450039 - www.iep.co.uk
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**SUBJECT TO
PLANNING APPROVAL**