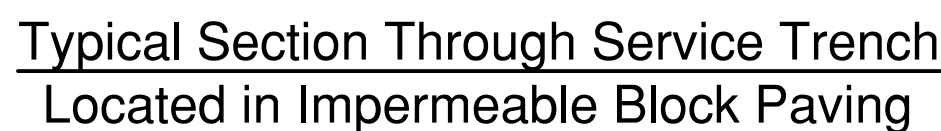


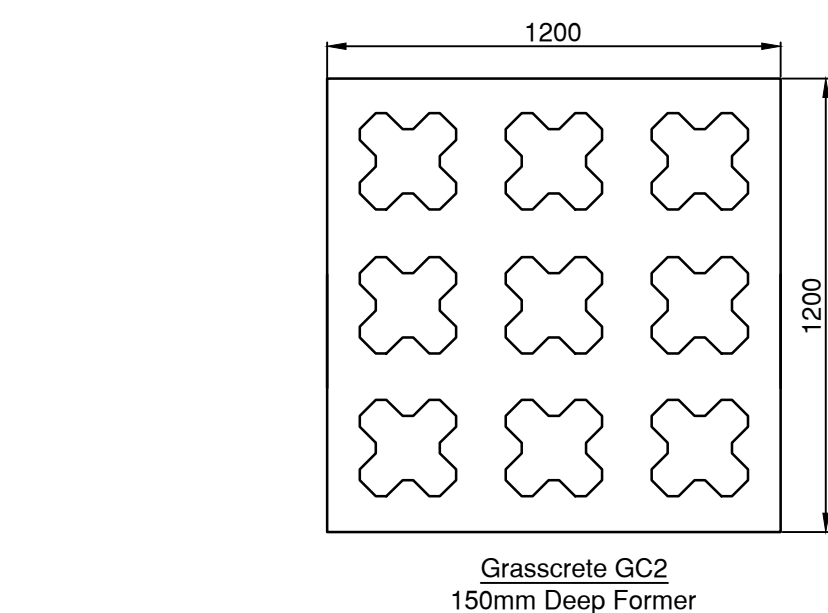


NOTE: Sub-base Construction depths indicated are based on an assumed design value of 4%. Actual CBR value to be confirmed and subject to CBR Testing to inform design depths noted in Table 1



Grasscrete Installation Guidance

-
- Diagram illustrating the layout of the Grasscrete GC2 150mm Deep Former. The layout shows a 3x3 grid of interlocking units, forming a square area measuring 1200mm by 1200mm.



Grasscrete Construction Detail from Grascrete

Maximum Vehicle Weight 30-40 tonnes ③

(Used for Fire Tender Access and subject to agreement with utilities provider)

Refer to External Finishes Layouts for extents

- 1 This drawing is to be read in conjunction with other highways construction details
- 2 All dimensions are in millimetres unless stated otherwise.
- 3 Do not scale from this drawing. Only written dimensions are to be used.
- 4 A design CBR value of 4% has been assumed. This is subject to test results from geotechnical engineering.
- 5 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". Contractors refer to the Department of Transport's Specification for Highway Works 2005 and WSSC Model Contract Specification.
- 6 No works shall commence within the existing public highway until the Agreement is signed.
- 7 An approved weedkiller (harmless to humans, animals and insects) is to be applied (as per the Contractor's recommendations) to prevent formation levels of new carriageway and footways and/or as directed by the Highways Inspector.
- 8 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.
- 9 No more than one layer of concrete 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.
- 10 Any new trees within 3.0m of the proposed highway shall have their roots restrained by root barriers as directed by the Highways Inspector.
- 11 Measures shall be provided to ensure that 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.
- 12 No hot materials shall be poured or placed on the pavement surface if the temperature of the thermometer or before the temperature reaches 2deg C on a rising maximum thermometer (to be provided) by the Contractor and displayed in a position agreed by the Highways Inspector).
- 13 All ballasts shall be approved by the Highways Inspector prior to their installation.
- 14 All road apparatus (pull-in boxes, eyes, boxes, chambers, etc.) shall be allowed to be located within the adoptable highway.
- 15 All road signs and markings to comply with The Traffic Signs Regulations and General Directions 2016. Road Markings to be thermoplastic.
- 16 Contractor to comply with the Department of Transport Traffic Signs Manual 2009.
- 17 Tactile paving to comply with the Guidance on the use of Tactile Paving Surfaces 1998. 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.
- 18 Where necessary lighting to be installed in accordance with the relevant Lighting specification.
- 19 Supplies to street lighting columns are to be provided by the DNO.
- 20 Kerbs to be built jointing. Where kerb alignments incur 'minor open joint positions' between formed surfaces mortar jointing shall be used as directed by the Highways Inspector.
- 21 All full length FCC kerbs at all junctions to be finished with a 10mm chamfered top edge.
- 22 All precast Kerbs & Edgings shall be to BS EN 1340 & laid to BS 7533-6.
- 23 All sets of natural stone shall be to BS EN 1342 & laid to BS 7533-7.
- 24 All kerb and edging bed and backing to be concrete Class S11 (C6/W) well compacted. Unless otherwise stated the shall be finished with a minimum depth of 150mm. Carriageway marking demarcation CS1 / concrete sets to be S14 (C16/20).
- 25 The minimum length of any cut kerb shall be 450mm.
- 26 The correct radius kerbs shall be used for all radii of 12m and over. For radii between 12m and 20m 100mm long straight units shall be used. Radius kerbs shall be used to form corners of laybys and tapers.
- 27 The appropriate 914mm long precast concrete transition kerb shall be installed at each change in radius.
- 28 All external angles on HB kerbs to be quadrants. Suitable quadrant kerbs shall be used to form corners of square areas and refuge islands.
- 29 Bituminous materials to comply with relevant Clause No. in BS4847 - 1975.
- 30 Grading of granular sub-base/matrix material to conform with Part 205, 205A & 205B.
- 31 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 capping & the sub-base layers, eg Tensar Triax TX160 or similar approved.
- 32 On sloping soils, or where there is a significant difference in level 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.
- 33 Overall thickness should be no less than 450mm due to frost susceptibility.
- 34 Cut backs to be no less than 1/3 m.
- 35 Block pavers to be specified in terms of minimum 'Polished Paver Value' (PPV) and results submitted to engineer. Min value of 55.
- 36 A water based biodegradable sealant from approved supplier shall be used to prevent loss of sand.
- 37 Klinker dried sand jointing to be used in accordance with BS7533
- 38 Refr to geotechnical report for sulphate resisting class and ACEC class.
- 39 Mortars shall be designation BJS or BJS + C or BJS + CSHW.
- 40 Mortar pigments shall comply with BS EN 12778.
- 41 Bricks to be engineering Class B to BS EN 761-1 and Classes 2406 laid in Class 1 mortar to Class 1 standard red bond.
- 42 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.
- 43 Gully pots used for carriageway gulley pits shall be of precast concrete using sulphate resistant concrete in accordance with BS EN 124: 1994 of section 508 of the Specification of Highways Works.
- 44 All buried concrete to be CII/A or BJS or CII/A or B to BS 8500-2, Table 1 and Annex A.
- 45 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 be Class 2 Z. Where the outlet pipe is in the verge and is greater than 2000 from the edge of carriageway it shall have a min. 450mm cover.
- 46 Concrete linings are not to be used.
- 47 Total Carriageway construction depth must be greater than 450mm to negate susceptibility to frost penetration, irrespective of whether the subgrade is susceptible to frost.
- 48 For check dam details refer to drawing FON-182-02

1. 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.

B	15.02.21	Issued for construction.	LD	PJ	TS
A	12.11.20	Typical Section Through Service Trench Detail revised. Permeable Block Paved Construction Detail revised.	GD-I	LD	TS
Rev.	Date	Details	By	Chkd	Appd

Client:-



Site:-
Fontwell
Eastergate
Arundel

Drawing Title:-
**HIGHWAYS
CONSTRUCTION
DETAILS**

Sheet 1 of 2

Date:	March 2020	Scales:	Not to scale
Drawn:	PJ	Checked:	LD
		Approved:	TRS

Drawing No. _____

FON-180-01-B

FOR CONSTRUCTION



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