

NOTES

1. This drawing is to be read in conjunction with all other Bright Plan Civils drawings, and with all relevant Architect's and Engineer's drawings and specification. Any discrepancies found are to be reported immediately to the Engineer.
2. Bright Plan Civils accepts no responsibility for inaccuracies in data provided by third parties such as topographic surveys or Ordnance Survey mapping.
3. Do not scale, work to figured dimensions only. All dimensions are in millimeters unless noted otherwise and all levels are in metres from the topographic survey datum.
4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain.

PLANNING

This map is based on or reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationary Office (c) Crown Copyright. This drawing is based upon Ordnance Survey mapping - BPC accept no liability for any inaccuracies with the data. (c) Crown Copyright 2021. All rights reserved.

A	Revised Issue	02-09-2021
-	Original Issue	08-07-2021
Rev.	Amendments	Date



BRIGHT PLAN CIVILS
Transport Planning and Infrastructure Design Consultants
2 West Barn, Norton Lane, Chichester, West Sussex PO20 3AF
Tel: 01243 210418
www.bpcivils.co.uk enquires@bpcivils.co.uk

Drawing Status **PLANNING**

Client **Littlehampton Town Council**

Project **Preliminary Drainage Design**

Drawing Title **Keystone Youth Centre
Eldon Way, Littlehampton BN17 7HE**

Scale 1:500	Date Sep 2021	Drawn By DJL	Checked By LDF
-----------------------	-------------------------	------------------------	--------------------------

Drawing No. D1985-004	Rev. A
---------------------------------	------------------

-LEVELS KEY-	
+10.850	Proposed Spot Level
FFL ###	Indicative Finished Floor Levels
	Overland Flow Arrow

-DRAINAGE KEY-	
	Existing Surface Water Drain/Sewer
	Existing Highway Gully
	Proposed Surface Water Drain
	Proposed Surface Water Manhole
	Infiltrating Permeable Block Pavement
	Grass-Crete (Freedraining Surface)
	MUGA Surfing (Freedraining Surface)
	Gravel Surfing (Freedraining Surface)
	Geocellular Storage Tank (Infiltration) Depth and Cover as detailed
	Existing Foul Water Drain/Sewer
	Foul Water (Private Drain/Public Sewer)
	Proposed Foul Water Manhole

EXISTING DRAINAGE ON SITE UNKNOWN.

THE CONTRACTOR IS RESPONSIBLE FOR DEALING WITH THE EXISTING DRAINAGE INFRASTRUCTURE AND REPORTING CONNECTIVITY & CONDITION TO ENGINEER.

BUILDING FOUNDATION & MAIN SERVICE CORRIDOR 'LINE & LEVEL' SHALL BE DESIGNED TO SUIT THE DRAINAGE STRATEGY.

Refer to Architects drawings for further information on plot internal detailing, service points and threshold drainage details. Architect to finalise all drainage connection points & threshold drainage requirements

- SURFACE WATER STRATEGY-**
- Surface water disposal should be managed in view of the SuDS hierarchy;
 1. Infiltration
 2. Watercourse
 3. Public Surface Water Sewer(s)
 - Site-specific preliminary geotechnical testing has been undertaken, with a design soakage rate 1.0×10^{-3} m/s established.
 - It is proposed to use permeable block paving with a 475mm subbase within the car parking spaces, draining runoff from the car park and adjacent hardstanding areas. In addition, pathways and the MUGA surfacing are proposed to be freedraining with sufficient freeboard to allow attenuation of runoff prior to infiltration (minimum 300mm).
 - It is proposed the roof area and rear hardstanding areas will be drained by gully and pipe drainage to the proposed geocellular soakaway, with a storage capacity of 36.5m^3 .
 - The drainage strategy has been designed for up to a 1-in-100 year storm event, with the allowance of 40% for climate change, without exceedance.
 - Level design has been set out indicatively, and will be dictated by foul and surface water drainage design.

- FOUL WATER STRATEGY-**
- Foul water disposal should adhere to the following hierarchy;
 1. Public Sewer
 2. Private Treatment Plant
 3. Septic Tank and Drainage Field
 4. Cesspool
 - There is an existing foul public sewer manhole to the southeast of the site.
 - It is therefore proposed to discharge to the public foul sewer. Preliminary design demonstrates that a gravity connection is viable.
 - The proposed connection is subject to an Approved S106 Connection Application and confirmation of Line & Level with the Southern Water Clerk of Works.

SURFACE WATER DRAINAGE DESIGN NOTE:

Further geotechnical investigation is recommended prior to detail design to confirm infiltration rates at the location and depth of the proposed SuDS features and to confirm winter groundwater levels, to ensure sufficient clearance of the proposed geocellular soakaway above maximum winter groundwater levels.

1:500
@ A3

