

NOTES

- 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.
- Bright Plan Civils accepts no responsibility for inaccuracies in data provided by third parties such as topographic surveys or Ordnance Survey mapping.
- 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.
- Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain.

PLANNING

NOT FOR CONSTRUCTION

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 2020. All rights reserved.

A Level amendments following ADC Consultation 23/07/2021

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 Roy Daniells

Project Conceptual Drainage Strategy

Drawing Title Sunnymead Farm

North End Road, Yapton BN18 0DL

Scale 1:250 Date Jul 2021 Drawn By DJL Checked By MJA

Drawing No. D1958-200 Rev. A

-LEVELS KEY-

- +10.850 Proposed Spot Level
- FFL ### Indicative Finished Floor Levels
- Overland Flow Arrow
- Site Low Point

-DRAINAGE KEY-

- Proposed Surface Water Drain
- Proposed Surface Water Manhole
- Rodding Eye (Below Ground)
- Traditional Ring Soakaway (1.2m Dia.)
- 450sq Storm Road Gully (Single/Double)
- Tanked Permeable Pavement (260m²) Block Paving, 450mm thick subbase
- 10.0m Soakaway Buffer
- Existing Foul Water Drain/Sewer
- Existing Foul Water Manhole
- Foul Water (Private Drain/Public Sewer)
- Proposed Foul Water Manhole
- 3.0m Southern Water Sewer Easement

EXISTING DRAINAGE ON SITE UNKNOWN.

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

TOPOGRAPHIC SURVEY TO ARBITRARY DATUM AND GRID. CONFIRMATION OF LEVELS AND POSITIONING TO ORDNANCE SURVEY DATUM AND GRID REQUIRED PRIOR TO DETAILED DESIGN.

-SURFACE WATER STRATEGY-

- Surface water disposal should be managed in view of the SuDS hierarchy;
 - Infiltration
 - Watercourse
 - Public Surface Water Sewer(s)
- Site-specific geotechnical testing found poor infiltration characteristics in the Clay deposits, however the Chalk Bedrock yielded soakage rates of 8.8×10^{-5} m/s. Groundwater was found at 2.3mbgl, and is predicted to rise to up to 1.6mbgl below the impermeable Clay deposits.
- It is proposed to utilised permeable block paving with 450mm subbase, to attenuate runoff at shallow levels.
- Captured runoff will be conveyed from the permeable pavement and surface water drainage system to the 2 No. 1.2m Dia. ring soakaways, with a driving Head ensuring infiltration into the underlying strata.
- The drainage strategy has been designed for up to a 1-in-100 year storm event, with the allowance of 40% for climate change.
- The proposed drainage system has incorporated level design to ensure no runoff from the development off-site, and no runoff from the highway to the site. In addition, localised low points within the parking area and to the centre-north will provide overland storage in an exceedance event.

-FOUL WATER STRATEGY-

- Foul water disposal should adhere to the following hierarchy;
 - Public Sewer
 - Private Treatment Plant
 - Septic Tank and Drainage Field
 - Cesspool
- There is an existing 175mm foul water sewer through the centre of the site.
- It is therefore proposed to discharge to the foul sewer via a connection to the existing manhole, subject to Southern Water S106 Connection Approval.

New 1200 Dia. Public Foul Connection to existing manhole Subject to Southern Water S106 Approval, and Confirmation of Foul Manhole IL, Line & Level. Min. Incoming IL 2.20mOD

2 No. Traditional Ring Soakaways
1.2m Ring Diameter
2.4 x 2.4m Pit Dimensions
PCC rings to be perforated from 1.5m deep, to infiltrate into underlying permeable strata.
Traditional construction and tanked permeable pavement to provide storage above groundwater levels

Existing public foul sewer, as identified by Southern Water sewer records. Contractor to investigate further to determine line and level full coordination to inform new foul connection

Nominal low point within shared parking area to control exceedance flow & mitigate Third Party impacts

Potential area to be regraded to provide above ground storage, dependent on root protection requirements

Tanked permeable block pavement with 450mm subbase to attenuate runoff above groundwater levels. Formation level to vary to suit ground profile.

Soakaway location limited by required clearances:

- Structures 10.0 metres
- Boundaries 2.5 metres
- Road 5.0 metres

Final location to be agreed with Building Control. Clearance from building maximised whilst remaining outside of RPZ Areas

Existing Drainage on site to be fully established. The Contractor is responsible for dealing with the existing drainage infrastructure and reporting connectivity & condition to Engineer. Existing building drainage and foul connection to be removed.

Southern Water Sewer '6.175m' Protected Strip - 3 metre clearance from existing sewer

Road gullies to capture and convey runoff from access road to the drainage system due to localised low point

Crossover level design in accordance with WSCC Requirements, to prevent runoff to or from the highway to the site

Existing highway gully, CL 3.70
Existing highway gully, CL 3.61 (highway low point)

1:250 @ A3

0 2 4 6 8 10 m

Apple Tree