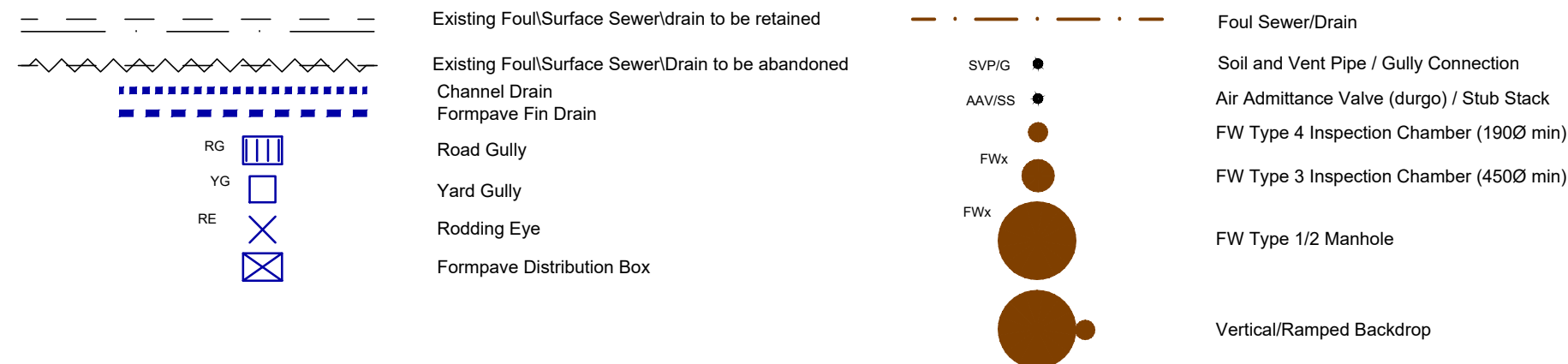


Legend



10.000

NOTE THE FOLLOWING:

Southern Water Agreements

1. Section 106 Foul Sewer Connection

- 1.1. SW Ref S106-xxx dated xxx
- 1.2. Direct connection to FWS-FW4

2. Formpave Design - Blanket Soakaways

- 2.1. Refer to Design & Details dated 02/09/21
- 2.2. Dwg Ref: FSC4505/D1 & D100

1. SW Drainage Design

1.1. Proposed Site

- 1.1.1. All SW runoff to be discharged to Blanket Soakaways using Formpave Porous Paving (Infiltration system) with min 450mm dp gravel sub base, level formation and 80mm DBM temp construction surface
- 1.1.2. Sub Base to have min 35% voids ratio - Test certificates to be submitted to ABMHC & LLFA/LPA for approval to verify material and voids ratio
- 1.1.3. SIR = $5.0 \times 10^{-6} \text{ m/s} = 0.018 \text{ m/hr}$ - Used as Design value
- 1.1.3.1. Lowest SIR recorded on site = $7.0 \times 10^{-6} \text{ m/s} = 0.025 \text{ m/hr}$
- 1.1.4. Drained Areas
- 1.1.4.1. SAT1 = $2405 \text{ m}^2 = 2184 \text{ m}^2 \times 10\% \text{ Urban Creep}$
- 1.1.4.1.1. (Roof Area = 999 m^2 , Paving = 1184 m^2)
- 1.1.5. Design to cater for 100yr SRP + 40% CC allowance, FOS = 5
- 1.1.6. Confirmation of winter Ground water table levels required
- 1.1.6.1. Highest GWL taken as 49.28m - AIP with LPA

2. FW Drainage Design

2.1. Proposed Flow from Site

- 2.1.1. Peak FW Flow 8 No Dwellings = 0.37 l/s Peak FW Flow (SFA)

NOTES

- This drawing is to be read in conjunction with drawing Nos. FC2891/01-25.
- Existing on-site drainage is shown on drawing FC2891/01-25.
- All adopted drainage and connections to the sewer system are to be constructed in accordance with 'Sewers for Adoption' 7th Edition or as stipulated in the Southern Water Addendum.
- Connections to the adopted drainage system are subject to the approval of Southern Water the Drainage Authority. Diverted, diverted, build close to sewer, and new sewers are subject to SW approval. All other drainage is to remain private.
- All pipes and fittings to be adopted, or connecting to adopted sewers, and/or situated under highway to be vitrified clay (min 40kN/m) to BS EN 295 & BS65 (SWS only), or Concrete pipes to BS EN 1916 & BS5911 Part 1, or Thermoplastic Structured wall sewer pipes to BS EN 13476-1-4 and WIS 4-35-01 (class 8kN/m), or Ductile Iron BS EN 598, and be capable of withstanding 4000 PSI jetting pressure.
- Cover levels shown are approximate. Covers and frames shall be set to finished ground levels and falls.
- All drainage to be constructed to BS EN 752:1999 and subject to the approval of Building Control/LPA and the Environment Agency.
- Gully and channel drain positions are liable to amendment when the design levels have been determined.
- All downpipes to new dwellings are to be sealed, ie connected directly to the stormwater drain. All downpipes to existing dwelling are to be connected to trapped gullies. Access points to be provided 1m above ground level for external RWP's and 1m above FFL for internal RWP's.
- All below ground concrete to accord with ACEC site classification of AC-1 (refer to Geotechnical Investigation)
- Aco channel drain to be K1005 with grade C250 Quicklock 'Heelguard' cast iron grating or equivalent, where adjacent to kerbing or within pedestrian areas. Elsewhere Aco channel drain to be Road Drain 100 Class F. All channel drain outlets to have oil traps
- The Contractor should construct works in accordance with the Local Authority specification for the works they are to undertake.
- Road gully/Channel outlet pipes are to be 150mm dia. with concrete surround and flexible joints. All other un-referenced pipes are assumed to be 100mm dia. FW min gradient - 1 in 40 (100 dia) no WCs connected FW min gradient - 1 in 80 (100 dia) min 1 WC connected FW min gradient - 1 in 150 (150 dia) min 5WC's SW min gradient - 1 in 100 (100/150 dia)
- If any sub soil drainage systems are uncovered during the Works contact the Engineer for instructions. Generally sub soil drains affected are to be diverted around new Works and connected into the surface water drainage system. Pipe diameters and gradients are to be maintained.
- Before commencing construction the Contractor must check the invert levels of existing sewers to which connections are made. In addition the Contractor must locate and determine invert levels of the existing spurs to which connections are proposed. Additional spurnhole connections are to be agreed with the relevant adopting authority. Any discrepancies are to be notified to the Engineer immediately, prior to construction.
- Road reinstatements are to be to the Highway Authority approval.
- No private areas are to drain onto adoptable areas and vice versa.
- All redundant drainage to be abandoned once the Contractor and Client have satisfied themselves that no connections remain live. Drains and sewers less than 1.5m deep which are in open ground should as far as is practicable be removed. Other pipes should be sealed at both ends and at any other point of connection and solidly filled at intervals not exceeding 25m with Class G3 or G4.

SUBJECT TO THE APPROVAL OF:
LPA - Planning Conditions
BUILDING CONTROL/NHBC
SW - S106 FWS connection

Subject to confirmation of the following:
GF FFL No 34 & 36 Carlton Ave
Foundations
SW S106 connections
Agreement of winter Ground water levels with LPA

D	Issued For BUDGET/APPROVAL ONLY	10/02/22
C	Issued For BUDGET/APPROVAL ONLY	29/10/21
B	Issued For BUDGET/APPROVAL ONLY	03/09/21
A	Issued For BUDGET/APPROVAL ONLY	24/08/21
REV	DESCRIPTION	DATE

abmh
ABMH Civils Ltd
1 The Grove, Felpham, Bognor Regis, West Sussex PO22 7EY
Mark Mob: 07761 950000
Email: mark@abmh.co.uk / Web: www.abmh.co.uk

PROJECT	DEVELOPMENT TO REAR OF 34-44 CARLTON AVENUE BOGNOR REGIS, W SUSSEX PO21 3LR
DRAWING	DRAINAGE LAYOUT
SHEET	SHEET 1 OF 2
FC2891/02	
SCALE	1:25
DATE	JUNE 21
INITIAL	MH
CHKD	-
REV	D

This drawing is produced using AutoCAD. Only written dimensions are to be respected.
© ABMH Civils Ltd. Title to this drawing remains with ABMH Civils Ltd.
Removal of this title block also removes all warranties and infringes copyright.