DRAINAGE KEY

FOUL STORM

- Proposed adoptable sewer & MH
- Catchpit MH
- Control MH
- Proposed private drains
- Adoptable manholes Type 4
- Rodding Eye
- Private yard gully
- Precast linear drainage channel
- Highway gully and 150mmØ connection
- Foul water rising main
- Headwall
- Cellular Storage
- Distribution tank (porous areas)
- Drainage with Type Z bedding

Upper side slopes 1:8 on northern side

3m Maintenance Strip

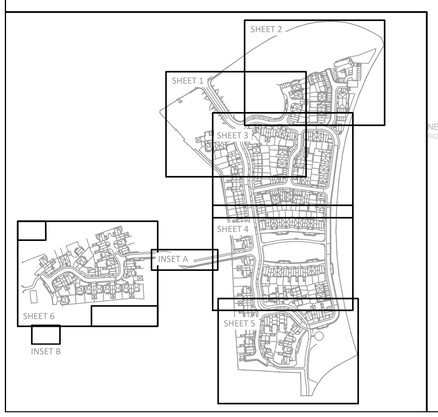
Attenuation Basin South with
1.5m granular sub-base.
Base IL 15.000m
WL 15.950m
Cl.Existing ~17.000m
Volume 440m3
2:1 Side Slopes
Sub-base IL 13.50
Based on infiltration rate of;
1.93x10$^{-4}$ m/s

Proposed pedestrian, cycle and emergency access link to High Street

Foul sewer to connect to existing Southern Water foul sewer network
FSS6_OUT
CL 15.700
IL 13.746

NEIGHBOURING PROPERTIES

NEIGHBOURING BUILDING
RIDGE 21.82




© ABLEY LETCHFORD PARTNERSHIP LTD.
This drawing should not be reproduced without consent.

DRAINAGE NOTES:

1. Do not scale.
2. Refer to all other Project Drawings and supporting notes.
3. All sewers to comply with the requirements of the water authorities publication "Sewer Sector Guidance (SSG)" together with Southern Waters Technical Advisories.
4. All public sewers are to be the subject of a Section 104 agreement of the Water Industry Act 1991.
5. Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
6. The Contractor is responsible for maintaining continuity of flow for all existing sewers within the site boundary and limit of works for the duration of the project.
7. All manhole ironworks to comply with BS EN124, and be stamped with BSI Kitemark. Covers to suit loading as below;
   - -Carriageways and Roads - D400
   - -Driveways and Verges - C250
   - -Footways and Pedestrian Areas - B125
   - -Gardens/Landscaping - A15
8. All sewer pipes, up to, and including 225mm are to be vitrified clay to BS EN295. All sewer pipes 300mm diameter and above to concrete pipes to BS EN1916.
9. All drainage shall be installed and tested strictly in accordance with the Manufacturers' printed instructions, BS EN 752, BS EN 1601, Local Water Authority requirements and the Building Regulations.
10. All bedding shall be Class S unless noted otherwise.
11. All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted Type 1 granular sub-base material.
12. Drainage laid beneath roads and areas of vehicular access (car parking etc) with less than 1200mm of cover shall be encased in concrete bed and surround with associated movement joints. Drainage laid beneath paths, footways and pedestrian areas with less than 900mm of cover shall be similarly treated.
13. Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
14. The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
15. All gully connections to use a minimum diameter pipe of 150mm and to be surrounded by a minimum of 150mm of grade C8/C10 concrete over its full length (which should not exceed 15m) and its connection to the carrier system.
16. All sewers to be abandoned must be surveyed to identify any lateral connections that are still live with any found to be reported to the Engineer.
17. All laterals to be 150mm laid at 1:80 (surface) or 1:60 (foul) unless otherwise stated.
18. All private drains to be 100mm diameter unless otherwise stated.
19. All foul and storm water drains which are not to be adopted as public sewers shall be in accordance with Document H of the Building regulations, together with NHBC Standards Chapter 5.3 and BS8301.
20. Where pipes pass through footings, retaining or screen walls, lintels to be provided over drains.
21. Where inverts are less than 0.6m deep inspection chambers (min dia. 190mm) or access fittings (225 x 100mm) to be used, elsewhere proprietary plastic, brick or pcc is to be used and sized in accordance with Table 11 of Document H of the Building Regulations [<0.6m to invert min DN300, >0.6m to invert min DN475].
22. All gullies connected direct to drains to be roddable.
23. Rainwater downpipes to be easily removable for rodding or to be provided with rodding access at ground level.
24. Unless noted otherwise FW IC's and RE's to be 0.6m below DPC level, SW IC's and RE's to be 0.45m.
25. Adequate precautions in accordance with Approved Document H and manufacturers's recommendations to be taken to protect drains (particularly plastic) at shallow depths.
26. Catchpits to be as IC's but with 300mm sump below outgoing pipe invert level except where detailed elsewhere.
27. Trees and shrubs of a large size or heavy canopy with a moderate or high water demand must not be planted within any sewer easement.
28. Gullies within and adjacent to area of site works to be suction cleansed at commencement and completion of works.
29. 1m deep root barrier of an approved type to be installed vertically along the back edging kerb of all areas of footway/ demarcation to protect from both proposed and future plantation.
30. Where connections are being made to pipelines rather direct to manholes all connections are to be made using oblique 45 junctions.

| Rev | Date | Description | Drawn | Checked |
|---|---|---|---|---|
| D | 04.21 | Updated following Adur & Worthing Council Comments | JS | SL |
| C | 03.21 | Pipe numbers added to adoptable drainage, Granular storage added to base of Infiltration basin following Adur and Worthing Council Comments | JS | SL |
| B | 01.21 | Cover Levels added to manholes & gullies | JS | SL |
| A | 12.20 | First Issue | JS | SL |

ABLEY LETCHFORD PARTNERSHIP
Consulting Engineers
3 Tealgate, Charnham Park
Hungerford, Berkshire RG17 0YT
www.alpce.co.uk Tel: 01488 684390

Client
BARRATT
DAVID WILSON HOMES

Project
WATER LANE, ANGMERING

Title
DRAINAGE LAYOUT
SHEET 5

Status
FOR CONSTRUCTION

| Scale | Date | Drawn | Checked |
|---|---|---|---|
| 1:250 @ A1 | DEC 20 | JS | SL |

Drawing No. CIV-1-4055 D
A290-505
Revision D