

STANDARD NOTES:

1. This drawing is to be read in conjunction with all other OPUS drawings, and with all relevant Architect's and Engineer's drawings and specification.
2. No dimensions are to be scaled from this drawing. Unless noted otherwise all dimensions are in millimeters and all levels are in metres from the site datum. All dimensions to be checked on site. All details and dimensions relating to sub-Contractors work must be checked and agreed between the sub-Contractor or supplier and the general Contractor.
3. The electronic information from this drawing cannot be guaranteed as dimensionally drawn exact. Figured dimensions must be used for setting out and detailing. OPUS logos and company information must be removed from copies if information is re-used.
4. The main Contractor is responsible for the design of all temporary works, and is also responsible for the safe maintenance and stability of existing buildings at all times.
5. The main Contractor is responsible for the mitigation of all occurrences of ground water during the construction period.
6. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not guaranteed. The main Contractor is responsible for checking all information on site prior to work commencing and taking due care and attention whilst undertaking the works.
7. The contractor must comply with all current legislation relating to Health & Safety.

DRAINAGE NOTES:

1. All works to be conducted in strict accordance with specification of the Local Authority, BS601 1985 & BSEN 752-1.
2. All pipe runs near buildings to comply with the Building Regulations 2003 Part H1. Where a pipe is within 1m of a foundation the trench shall be filled with class GEN3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class GEN3 concrete to a level below the lowest level for the foundation equal to the distance from the foundation less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick class GEN3 concrete.
3. Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN3 concrete encasement (150mm thick).
4. Where a pipe, under a carriageway, has a depth of cover of less than 1.2m the pipe shall be laid in a class Z bedding.
5. Where pipes are bedded and surrounded in concrete, flexible joints should be provided. Compressible boards (fibreglass or polystyrene) shall be provided at a maximum of 8m centres (coinciding with pipe joints). The boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.
6. All private building drainage shall be constructed in strict accordance with BS EN 752-1.
7. Unless otherwise specified, building drainage to be 100mm internal diameter.
8. Minimum gradient for Ø100mm surface drainage pipes is 1:60, and Ø150mm is 1:100.
9. Minimum gradients for foul drainage pipes:
Ø100mm: 1:40 where flow is less than 1l/s, or where no WCs are connected.
Ø100mm: 1:78 where flow is 1l/s or greater, or where at least 1 No. WC is connected.
Ø150mm: 1:135 where flow is less than 5l/s, or where up to 5 No. WCs are connected.
Ø150mm: 1:150 where flow is 5l/s or greater, or where 5 No. or more WCs are connected
10. All gullies not connected to inspection chambers are to be roddable.
11. All gully connections other than those at manholes to be made via "Y" junctions.
12. Gullies coincident with pedestrian/drive crossings to have pedestrian type gully covers.
13. All road gully connections to be 150mm diameter.
14. All stub stacks to be fitted with air admittance valves where branch drain exceeds 1.2m except at the head of the run. Soil vent pipes located at the head of a run to be installed with roof tile vent.
15. All connections to be made from soffit to soffit.
16. Trench temporary formwork is required to all excavations exceeding 1.2m depth to provide adequate support and stability at all times.
17. Sewers are to be constructed in single sections between manholes only. Trenches to be backfilled prior to excavating the succeeding sewer run.
18. All concrete and concrete products to be in accordance with BRE 363 for sulphates.
19. Where sewer or drains are to be abandoned they shall be removed or infilled by grouting in accordance with the Civil Engineer Specification for the Water Industry 7th Edition, clause 5.23.

NOTE: ALL PRIVATE DRAINAGE IS 100mm Ø UNLESS SPECIFIED ON THE DRAWING. (EXCLUDING GULLY LEADS WHICH ARE ALL 150mm Ø)

NOTE: PRIVATE PIPE COVER REQUIREMENTS ARE TO BE AS PER BUILDING REGULATIONS PART H.
GARDENS: 0.6m MINIMUM COVER WITHOUT PROTECTION
LIGHT ROADS: 0.9m MINIMUM COVER WITHOUT PROTECTION

ADOPTABLE PIPE COVER REQUIREMENTS TO BE AS PER SEWERS FOR ADOPTION 7TH EDITION.
ROADS: 1.2m MINIMUM COVER WITHOUT PROTECTION

BACKGROUND IS BASED ON THE ARCHITECT'S GA DRAWING

ANY DISCREPANCIES OR UNCERTAINTY WITH THE CONTENT OF THIS DRAWING ARE TO BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.

LEGEND:

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|--|---|--|---|
|  (74.975) | PROPOSED 1200Ø MANHOLE ON ADOPTABLE SEWER |  (74.975) | PROPOSED 1200Ø MANHOLE ON PRIVATE DRAIN |
|  (74.975) | PROPOSED 600Ø FOUL PPIC WITH INVERT LEVEL ON ADOPTABLE SEWER. |  (74.975) | PROPOSED 600Ø STORM PPIC ON PRIVATE DRAIN |
|  (74.975) | PROPOSED 600Ø FOUL PPIC ON PRIVATE DRAIN |  (74.975) | PROPOSED 450Ø STORM PPIC ON PRIVATE DRAIN |
|  (74.975) | PROPOSED 450Ø FOUL PPIC ON PRIVATE DRAIN. |  (74.975) | PROPOSED ROAD GULLY. |
| | |  | PROPOSED ATTENUATION TANK. |
| | |  | PROPOSED 500Ø SILT TRAP. |

BURIED PRIVATE SERVICES		
Construction Risks	Maintenance/Cleaning Risks	Demolition/Adaption Risks
The table above is provided to assist the Principal Contractor to fulfil his obligations under the Construction (Design & Management) Regulations 2015. It does not include residual risks that a competent Contractor will be aware of nor does it absolve the Principal Contractor of his legal responsibilities.		
SAFETY HEALTH AND ENVIRONMENTAL INFORMATION BOX		

Revision	Amendment	Approved	Revision Date
P1	ISSUE FOR INFORMATION	CAA	18.03.2016
T2	ISSUED FOR TENDER	APT	30.03.2016
T3	REVISED LAYOUT	APT	28.10.2016



Modulus House,
Salterns Lane, Fareham
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Drawn	Designed	Approved	Revision Date
CAA	CAA	APT	18.03.2016

Project No.	Scale
FA E-F1846.00	1:250

Project	
EAST LEIGH HOUSE BARTONS ROAD	
Sheet	
DRAINAGE	
Drawing No.	Sheet No.
300	1 of 1
Revision	
T3	

1:1 @ A1
1:2 @ A3