



**NOTE:**  
DRAINAGE AND LEVELS TO BE CONFIRMED  
WHEN CLARIFICATION OF LEVELS HAS BEEN  
ESTABLISHED

FOR TYPICAL DRAINAGE CONSTRUCTION DETAILS  
REFER TO DRAWING A360/C/D??-D??

**GENERAL NOTES:**

1. This drawing to be read in conjunction with all relevant Engineers drawings details and specifications.
2. Prior to the commencement of the drainage works the levels of all the existing drain inverts where existing drains or manholes are to be connected to, shall be checked.
3. All new sewers are clay pipework to BS EN 295-1:1991 with flexible joints laid to the size and fall as indicated thus on the layout plan :  $\frac{150\phi}{1:150}$
4. All new drains are uPVC pipework to BS4660:1989 of 110mm $\phi$  unless noted otherwise laid to the following minimum falls: 110 $\phi$  foul drain where no w.c.'s are connected - 1:40min fall 110 $\phi$  foul drain with a minimum of 1 w.c. connected - 1:80min fall 150 $\phi$  foul drain with a minimum of 5 w.c. connected - 1:150min fall Storm water drains - 110 $\phi$ =1:100min fall, 150 $\phi$ =1:150min fall
5. Where pipes are laid less than 0.9m below the wearing surface of a road or hardstanding lay 250mm thick concrete slab (Designated mix GEN 3) on top of granular surround, for full width of trench.
6. Where pipes are laid below road/parking areas trench backfill shall be Type 2 sub-base material consolidated in 150thk maximum layers.
7. Where pipes are laid with less than 600mm of cover in garden areas lay concrete protection on top of granular surround, for full width of trench.
8. All inspection chambers (depth n.e 1200) to be 450 $\phi$  constructed from preformed plastic chambers to BS7158:1989.
9. All non-entry inspection chambers (depth 1200 to 3000) to be 500 $\phi$  constructed from preformed plastic chambers to BS7158:1989.
10. All shallow inspection chambers (SIC) to be 250 $\phi$  by 600dp constructed from preformed plastic chambers to BS7158:1989.
11. Roof and parking area soakaways to be constructed from Wavin 'Aquacell' infiltration units to the sizes, type and configurations as detailed on the layout plan.
12. All soakaways to be located 5m min. from any building.
13. All inspection chambers/gullies in vehicular areas to have covers/gratings to BS124 EN bedded on a 150min thickness GEN1 concrete surround to the top 250 depth of the chamber.
14. Concrete mix for protecting drainage pipes and encasing inspection chambers to be DESIGNATED MIX GEN1/20agg in accordance with B.55328
15. The public sewer diversion should be designed and constructed in accordance with the Civil Engineering Specification for the Water Industry 6th Edition published by the WRc plc. It should also generally be in accordance with the Sewers for Adoption 6th Edition, the Combined Addendum to that document published by the WRc plc and Anglian Water's Adopting your Sewers - additions/deletions to Sewers for Adoption 6th Edition

**DRAINAGE LEGEND**

- Storm Water Manhole
- Shallow SW Inspection Chamber
- SW Inspection Chamber
- Residential SW Drainage Pipe
- Concrete Protection
- Foul Water Manhole
- Shallow FW Inspection Chamber
- FW Inspection Chamber
- Foul Water Drain
- Foul Water Drain (Residential)
- Existing Foul Water Drain
- Existing Surface Water Drain
- Soil Vent Pipe
- Stub Stack
- Rodding Eye
- Rain water pipe
- Heavy duty 'Wavin' Aquacell units
- Drainage channel
- Gully
- Existing levels (x 10.000)
- Proposed Levels (x 9.790)
- Impermeable Road Construction

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24/11/16

Rev	Date	Description	By

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Project  
**THE VIXEN, HAVERHILL**

Title  
**Drainage Strategy Plan  
Sheet 2 of 2**

Drawn MEC	Checked JP
Scale 1:100 @ A1	Date 24.11.16

Drawing No  
**A360/C/DS/02**