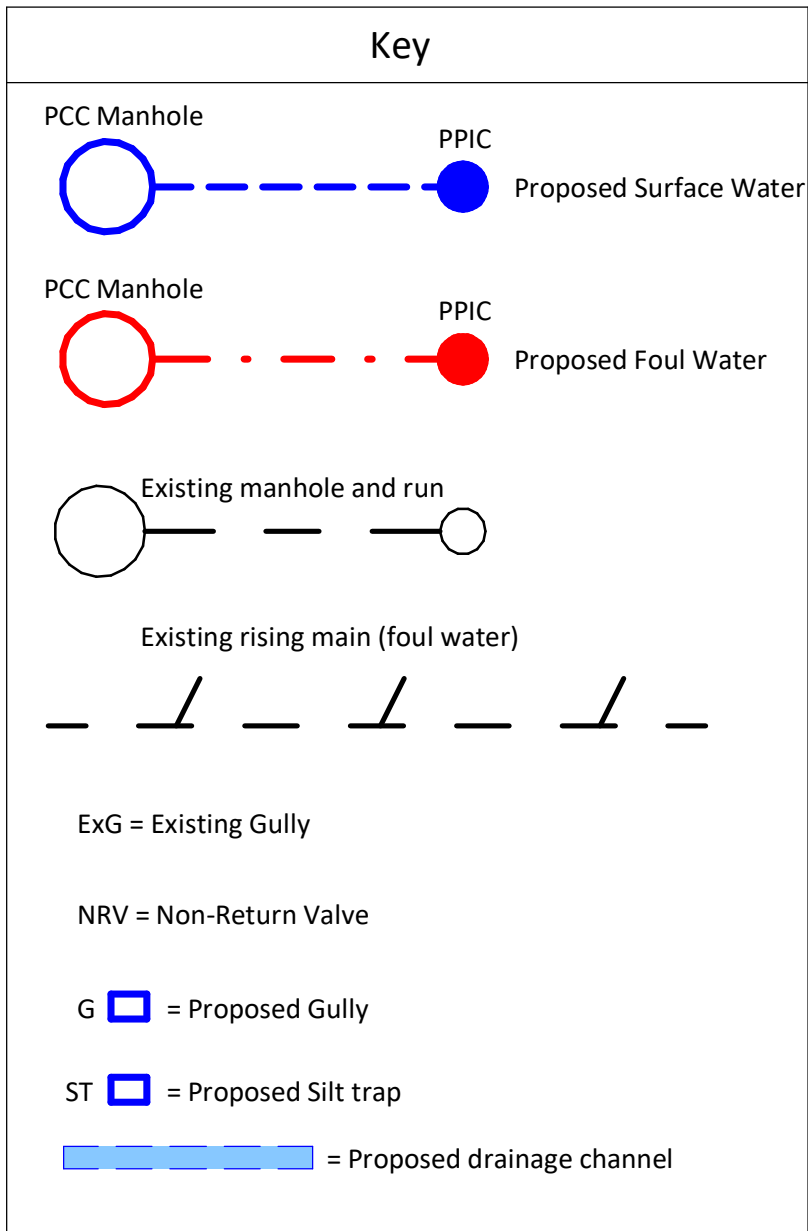


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Do Not Scale



Drainage systems connected to public sewers

Public sewer networks (foul, surface water and combined) are maintained by the statutory sewer authority for the region. These are private companies who are responsible for giving or refusing consent for any and all new connections to their network. The provisions of the Water Industry Act set out performance criteria for these sewers. The sewer authority when consenting to a new connection will limit flows and require calculations indicating that these parameters are being met. These parameters hold for events up to and including 30 years (unmodified by climate change or similar additions). Beyond this the sewer authority is not liable for performance. A new pipe can potentially exceed the agreed flow beyond 30 years but the sewer may not be able to accommodate even the agreed flow.

The public sewer system could then be surcharging with flood flows across the surface. The drainage network indicated will therefore only deal with flows subject to the public sewer network being able to satisfactorily accommodate them. Reduced discharge into the public sewer will have a detrimental effect on the pipe network upstream of it, possibly leading to surcharging with flood flows and ponding at the surface.

1 Proposed drainage layout
1 : 200

Proposed Manhole Schedule								
Man Hole Ref	Incoming Invert Level	Outgoing Invert Level	CL	Depth to Soffit	Chamber Type	Chamber Size	Cover Type	Cover Size
FW1	6.780	6.780	7.490	0.560	B1/E	1200	D400	600x600
FW2	6.530	6.530	7.500	0.820	B1/E	1200	D400	600x600
FW3	6.050	6.050	7.480	1.280	B1/E	1200	D400	600x600
FW4	5.850	5.850	7.460	1.460	3	600	D400	600x600
SW1	6.242	6.424	7.250	0.783	B1/E	1200	D400	600x600
SW2	6.145	6.145	7.280	0.910	B1/E	1200	D400	600x600
SW3	6.152	7.300	0.923	B1/E	1200	D400	D400	600x600
SW4	6.360	6.360	7.300	0.790	B1/E	1200	D400	600x600

DESIGN REVIEW

Design review by:

Checked by:

Residual hazards:

DRAWING NOTES

1. This drainage should be read in conjunction with Adept specification for drainage works and any other subsequent additions to this list

2. All building drainage works shall be carried out in accordance with the current British / European standards BSEN752, the current building regulations and the local authority building control or NHBC specifications and requirements

3. For external finished ground levels refer to architects external works drawings

4. All private foul drainage to be 100ø laid at a minimum gradient of 1 in 40, all private surface water drainage to be 100ø laid at a minimum gradient of 1 in 60 unless otherwise noted. Pipework to be laid to inverts shown on schedule.

5. All Junctions are to be done using a "Y" junction to direct the flow in line with the main pipe.

6. All cover levels to manholes are approximate only and may be adjusted on site to tie in with Architects proposed levels.

7. Exact location of rainwater downpipes and all internal drainage points to be confirmed by Architect. Rainwater pipe outlets to be roddable.

8. For all setting out, dimensions and current site layout refer to Architects drawing. Do not scale from this drawing

9. Invert levels of all outfall points to be clarified prior to commencing drainage works. Position size and depth of all existing drains and services shall be established prior to commencement on site and any discrepancies reported to engineer.

10. The contractor shall allow for the protection, temporary and permanent support, and temporary and permanent diversion works, as necessary to all existing services

11. The contractor shall allow for all traffic management in connection with road and sewer works

12. The contractor shall allow for keeping trenches and excavations as dry as practicable by pumping from temporary sumps and dewatering as appropriate. The point and method of discharge to be agreed with the drainage authority and Environment Agency

13. Contractor to apply for sewer permits and road opening permits as necessary from the appropriate authorities, prior to commencing works.

14. At changes in pipe diameter Soffits to coincide unless noted otherwise

15. Wherever possible, drainage works are:

To commence at outfall

To work Upstream

16. All pipe work < 300 to be Clay, > 300 to be Concrete. With the strengths shown below:

Clay Pipe Min Strengths

100mm dia 40KN/m

150mm dia 40KN/m

225mm dia 45KN/m

300mm dia 72KN/m

Concrete Pipe Min Strengths all diameters to be class 120 (54KN/m)

17. Tree's should not be planted within 5m of adoptable sewers, where this is not possible due to planning conditions a suitable root barrier needs to be installed around any tree types that are within the prescribed restrictions as set out in Sewers for Adoption 6th Edition Figure 2.3. Where the Mature tree canopy will overhang the adoptable highway a suitable root barrier will be required to prevent damage to statutory undertakers equipment and the integrity of the highway construction.

03.04.18

Existing gravity system updated

BB

PG

P05

26.03.18

Drainage Plan updated to suit EA & Southern Water's comments; Key & Schedule updated

WRH

PG

P04

08.03.18

Foul water layout updated

BB

PG

P03

27.02.18

IL at SW4 & SW6 updated, notes added

WRH

PG

P02

09.02.18

Preliminary Issue

BB

PG

P01

Date

Revision

By

Chkd

Rev

ADEPT

Engineering Better Solutions Together

ace

Constructionline

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Project

ASDA Ferring

Title

Proposed drainage layout

Client

ASDA

Save money. Live better.

Scale @ A1

Drawn

Checked

Date

As indicated

BB

PG

Feb'18

Suitability

Purpose

S1

Preliminary

UPRN

Originator

Zone

Level

Type

Role

Class

Drw

No.

Rev.

05.16049-ACE-00-XX-DR-D-50-0101-P05