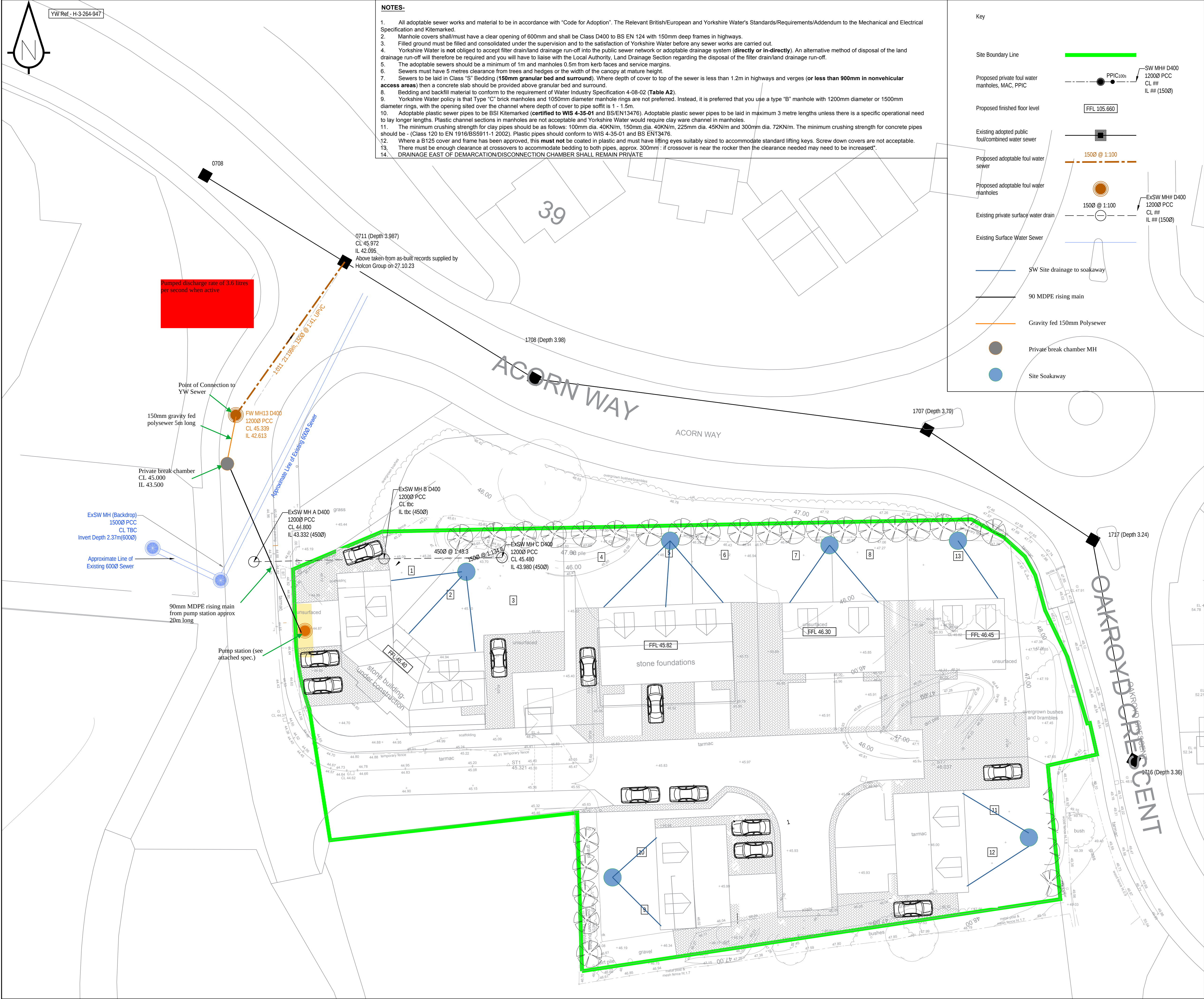




NOTES-

- All adoptable sewer works and material to be in accordance with "Code for Adoption". The Relevant British/European and Yorkshire Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
- Manhole covers shall/must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
- Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
- Yorkshire Water is **not** obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (**directly or in-directly**). An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section regarding the disposal of the filter drain/land drainage run-off.
- The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
- Sewers must have 5 metres clearance from trees and hedges or the width of the canopy at mature height.
- Sewers to be laid in Class "S" Bedding (**150mm granular bed and surround**). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (**or less than 900mm in nonvehicular access areas**) then a concrete slab should be provided above granular bed and surround.
- Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (**Table A2**).
- Yorkshire Water policy is that Type "C" brick manholes and 1050mm diameter manhole rings are not preferred. Instead, it is preferred that you use a type "B" manhole with 1200mm diameter or 1500mm diameter rings, with the opening sited over the channel where depth of cover to pipe soffit is 1 - 1.5m.
- Yorkshire Water is **not** obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (**directly or in-directly**). An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section regarding the disposal of the filter drain/land drainage run-off.
- Adoptable plastic sewer pipes to be BSI Kitemarked (**certified to WIS 4-35-01 and BS/EN13476**). Adoptable plastic sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and Yorkshire Water would require clay ware channel in manholes.
- The minimum crushing strength for clay pipes should be as follows: 100mm dia. 40KN/m, 150mm dia. 40KN/m, 225mm dia. 45KN/m and 300mm dia. 72KN/m. The minimum crushing strength for concrete pipes should be - (Class 120 to EN 1916/BS5911-1 2002). Plastic pipes should conform to WIS 4-35-01 and BS EN13476.
- Where a B125 cover and frame has been approved, this **must not** be coated in plastic and must have lifting eyes suitably sized to accommodate standard lifting keys. Screw down covers are not acceptable.
- There must be enough clearance at crossovers to accommodate bedding to both pipes, approx. 300mm : if crossover is near the rocker then the clearance needed may need to be increased".
- DRAINAGE EAST OF DEMARCATION/DISCONNECTION CHAMBER SHALL REMAIN PRIVATE

Key

- Site Boundary Line
- Proposed private foul water manholes, MAC, PPIC
- Proposed finished floor level
- Existing adopted public foul/combined water sewer
- Proposed adoptable foul water sewer
- Proposed adoptable foul water manholes
- Existing private surface water drain
- Existing Surface Water Sewer
- SW Site drainage to soakaway
- 90 MDPE rising main
- Gravity fed 150mm Polysewer
- Private break chamber MH
- Site Soakaway

- The locations of utilities apparatus, if shown, is reproduced from plans supplied to the consultant, although care has been taken when duplicating this information. These locations are approximate only and no guarantee can be given for their accuracy. It is the client's or it's appointed agent/contractors responsibility to verify the exact locations on site by hand dug trial holes or other appropriate means prior to mechanical excavation.
- Service connections are not shown but their presence should be anticipated.
- Reference to any third party equipment shown on this drawing was only relevant at the time the drawing was prepared.
- It is the client's responsibility to ensure that any equipment ordered meets the design.

Notes:

- Invert and Cover Levels based on topographical survey as requested.
- Existing on-site 450mmØ SW drain to be checked to confirm invert level, 43.422, prior to works starting on site.

Pumped discharge rate of 3.6 litres per second when active.

H	Pumped rate, point of connection and soakaway locations added	BH	3/10/24	
G	Pump Station, Rising Main and Break Chamber Manhole added	RH	1/09/24	
F	MH12 moved to avoid existing gas			PJM
E	FW sewer realigned	DAH	31/10/23	PJM
D	Private 600mm IC's changed to 450mm IC's	JEM	10/05/23	DAH
C	Protected strip note amended	JKB	21/04/23	JEM
B	Protected strip dimensions amended	JKB	06/04/23	JEM
A	Amendments made following YW comments	JKB	21/03/23	JEM
Rev	Amendment	Drawn	Date	Checked

Client
HOLCON GROUP LTD

Project Title
ACORN WAY, GRIMETHORPE

Drawing Title
S104 Foul Water Design

Scale
Drawing Size

Date
A1

Drawn By
Checked By
Approved By

Drawing Number
301214_500_001BH

Rev
H