

NOTES

- Drainage design and construction is in accordance with Sewerage Guidance and any additional requirements of United Utilities.
- All SVP, RWP and BIG connections are indicative and must be cross referenced with architect's block plans.
- Pipe gradients out of building to connecting manhole to be laid on 1:40 in accordance with Part H of the 2015 Building Regulations. All inverts to SVP within 3 storey buildings must be 750mm in accordance with Building Regulations.
- Tolerances to be in accordance with SSG Clause E5.9.
- All rocker pipes to be in accordance with SSG Clause E6.6.2 and Table E13.
- Engineering bricks shall not contain frogs or holes.
- Brickwork to manholes to be English Bond.
- Where pipes surrounded in concrete, flexibility to be maintained at pipe joints by the use of suitable compressible material eg. "flexcell" or "fibreboard".
- All manhole covers and frames must comply with BS EN124. Covers in roads to be Grade D400 and be 150mm deep. Manhole covers in car parking areas and drives to be Grade B125, whilst landscaped areas may be Grade A15. All to be sized in accordance with Part H of Building Regulations 2015.
- All incoming pipes shall be surrounded with 150mm of concrete to the face of the collar of the first flexible joint and the outgoing pipe shall also be surrounded to within 50mm of the first flexible joint and a compressible filler used as a former between the concrete surround and downstream pipe collar.
- All underground services to be confirmed by contractor prior to commencement on site. Any discrepancies to be reported to engineer.
- Private sewers not located in roads to be Class F granular bed and surround as per standard details.
- Sewers located under adapted roads to be Class S granular bed and surround (more than 1.2m cover).
- Sewers located under private roads and car parking bays to be Class F granular bed and surround as per standard details unless adopted, then provide class S (if more than 1.2m cover)
- Private sewers with less than 0.6m of cover to be concrete surrounded as class Z on standard details.
- Adapted sewers with less than 1.2m cover, provide Class Z concrete bed and surround. Concrete haunching may be suitable for large diameter storage sewers, guidance must be sought from adopting authority prior to use.
- No deep or wide routed trees to be planted within close proximity of the proposed and existing public sewer system.

ADOPTABLE SEWER PIPE MATERIALS

- 150mm, 225mm and 300mm to be clay pipework
- 375mm, 450mm and 525mm to be concrete pipework
- 600mm and above to be concrete pipework

KEY

PROPOSED SURFACE WATER SEWERS

PROPOSED FOUL WATER SEWERS

EXISTING FOUL WATER SEWERS

PROPOSED HIGHWAY DRAINAGE

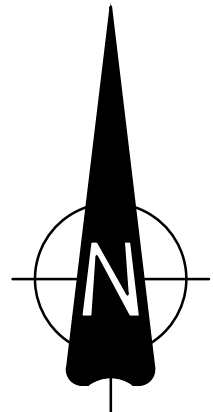
SITE BOUNDARY

FFL 94.600 PROPOSED FINISHED FLOOR LEVELS

PROPOSED GULLY AND 150Ø CONNECTION

EASEMENT

NOTE
DETAILS ON THIS DRAWING ARE SUBJECT TECHNICAL
APPROVALS



Dinting Vale

Existing UU MH 0302

Existing Cover level - 130.08mAOD (UU Sewer Records)
Invert level - 126.11mAOD (From UU Sewer Records)

Flow Control Chamber Manhole S67HB
Hydro International HydroBrake Optimum
SHE-0100-5000-1400-5000
Design head = 1.4m
Restricted discharge max. = 5.0 l/sec
Flow control orifice size 100mm
CL - 131.400mAOD
IL - 128.443mAOD

Highway drain serving proposed site entrance,
proposed outfall location is the brook running
alongside the site,

Flow Control Chamber Manhole S4HB
Hydro International HydroBrake Optimum
SHE-0120-8000-1750-8000
Design head = 1.750m
Restricted discharge max. = 8.0 l/sec
Flow control orifice size 120mm
CL - 143.800mAOD
IL - 141.862mAOD

Proposed Outfall for Network 1

Existing Cover level - TBC
Invert level - TBC
Exact connection point and location of culverted
watercourse to be established.

Proposed Outfall for Network 2

Existing Cover level - TBC
Invert level - TBC
Exact connection point and location of culverted
watercourse to be established.

Flow Control Chamber Manhole S23HB
Hydro International HydroBrake Optimum
SHE-0186-2160-2350-2160
Design head = 2.160m
Restricted discharge max. = 21.6 l/sec
Flow control orifice size 186mm
CL - 144.733mAOD
IL - 142.066mAOD

Flow Control Chamber Manhole S32HB
Hydro International HydroBrake Optimum
SHE-0131-1000-2000-1000
Design head = 1.600m
Restricted discharge max. = 10.0 l/sec
Flow control orifice size 131mm
CL - 147.720mAOD
IL - 144.970mAOD

Flow Control Chamber Manhole S50HB
Hydro International HydroBrake Optimum
SHE-0116-9000-2600-9000
Design head = 2.600m
Restricted discharge max. = 9.0 l/sec
Flow control orifice size 116mm
CL - 148.139mAOD
IL - 145.589mAOD

Flow Control Chamber Manhole S47HB
Hydro International HydroBrake Optimum
SHE-0100-6000-2050-6000
Design head = 2.050m
Restricted discharge max. = 6.0 l/sec
Flow control orifice size 100mm
CL - 150.954mAOD
IL - 148.319mAOD

Existing Culverted Watercourse MH2
CL: 147.080m (From Topographical Survey)
IL: 137.090m (From Topographical Survey)

Existing Culverted Watercourse MH1
CL: 146.770m (From Topographical Survey)
IL: 139.770m (From Topographical Survey)

Existing Culverted Watercourse Headwall 900Ø
CL: 142.300m (From Topographical Survey)
IL: 141.370m (From Topographical Survey)

F	29.08.22	Amended to suit RPA	NR
D	22.08.22	Added information about existing watercourse	NR
U	12.08.22	Amended to suit C&D material	NR
S	08.06.22	Amended to suit layout changes	NR
A	02.05.22	Issued for client comments	NR
Mark	Date	Details	By

Revision history

Drawing originator:



Client:

Wain HOMES

Project title:

Dinting Vale
Glossop

Drawing title:

Preliminary
Drainage Design

Scale: 1:500

for the original size of A1

Drawn by: NR | Checked by: RN | Passed by: RDN | Date: Aug 2022

Drawing status:

Technical Due Diligence

Job No:	Drawing No:	Project	Origin	Volume	Level	Type	Discp.	Number	Revision:
HYD712	BET					DR	C	001	E

Do not scale this drawing

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