NOTES

1. Drainage design and construction is in accordance with Sewerage Guidance and any additional requirements of United Utilities.
2. All SVP, RWP and BIG connections are indicative and must be cross referenced with architect's block plans.
3. Pipe gradients out of building to connecting manhole to be laid an 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.
4. Tolerances to be in accordance with SSG Clause E5.9.
5. All rocker pipes to be in accordance with SSG Clause E6.6.2 and Table E13.
6. Engineering bricks shall not contain frogs or holes.
7. Brickwork to manholes to be English Bond.
8. Where pipes surrounded in concrete, flexibility to be maintained at pipe joints by the use of suitable compressible material eg. "flexcell" or "fibreboard",.
9. 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.
10. 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.
11. All underground services to be confirmed by contractor prior to commencement on site. Any discrepancies to be reported to engineer.
12. Private sewers not located in roads to be Class F granular bed and surround as per standard details.
13. Sewers located under adopted roads to be Class S granular bed and surround (more than 1.2m cover.)
14. 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)
15. Private sewers with less than 0.6m of cover to be concrete surrounded as class Z on standard details.
16. Adopted 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.
17. No deep or wide routed trees to be planted within close proximity of the proposed and existing public sewer system.

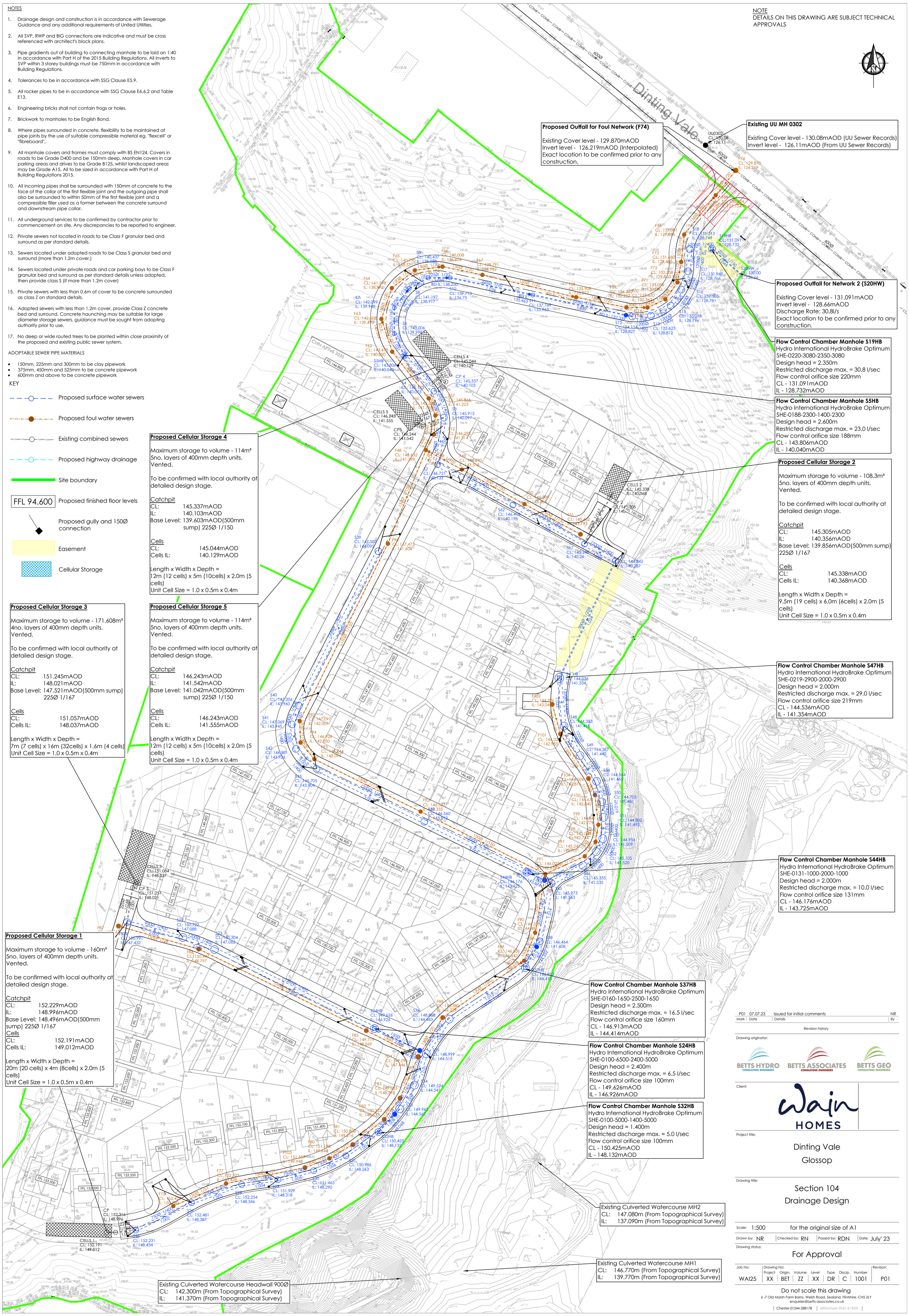
ADOPTABLE SEWER PIPE MATERIALS

- 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 combined sewers
- Proposed highway drainage
- Site boundary
- FFL 94.600 — Proposed finished floor levels
- Proposed gully and 150Ø connection
- Easement
- Cellular Storage

NOTE
DETAILS ON THIS DRAWING ARE SUBJECT TECHNICAL APPROVALS



Mark	Date	Details	By
P01	07.07.23	Issued for initial comments	NR

Revision history

Drawing originator:

BETTS HYDRO CONSULTING ENGINEERS
BETTS ASSOCIATES CONSULTING ENGINEERS
BETTS GEO CONSULTING ENGINEERS

Client:

Wain HOMES

Project title:

Dinting Vale
Glossop

Drawing title:

Section 104
Drainage Design

Scale: 1:500 for the original size of A1

Drawn by: NR | Checked by: RN | Passed by: RDN | Date: July' 23

Drawing status:

For Approval

Job No:	Drawing No: Project	Origin.	Volume	Level	Type	Discip.	Number	Revision:
WAI25	XX	BET	ZZ	XX	DR	C	1001	P01

Do not scale this drawing

6 -7 Old Marsh Farm Barns, Welsh Road, Sealand, Flintshire, CH5 2LY
enquiries@betts-associates.co.uk
Chester 01244 288178 | Altrincham 0161 613531