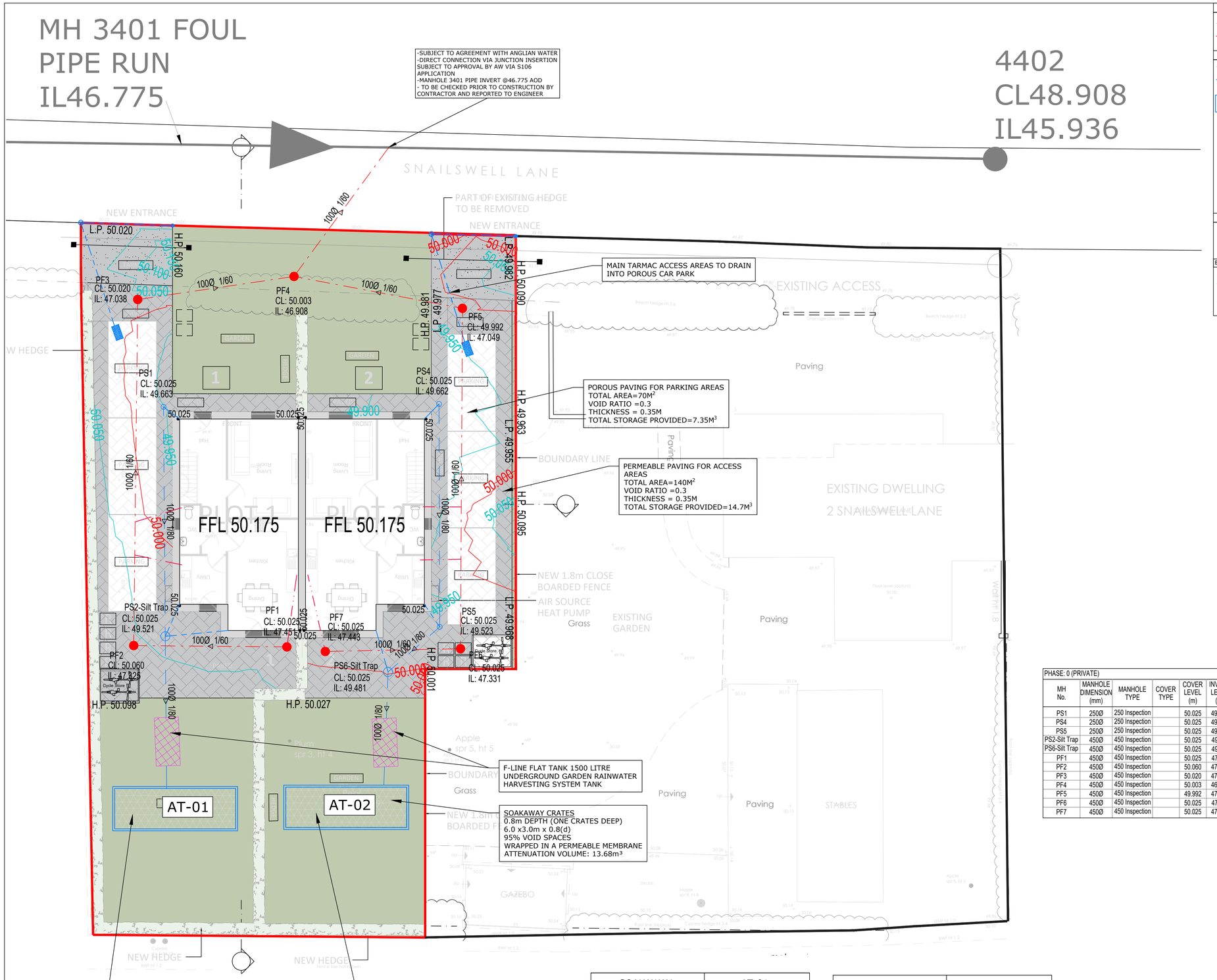

SOAKAWAY	AT-01
Lowest Cover Level (m)	50.076
Level top of Cells (m)	49.576
Base level of Cells (m)	49.176
Pipe invert (m)	49.426
Contributing area (m2)	60
Dimension on Plan (m)	6.0 x 2
Cell Thickness (m)	0.4
Void Space (%)	95
Maximum Storage Volume (m3)	4.56

SOAKAWAY	AT-02
Lowest Cover Level (m)	50.054
Level top of Cells (m)	49.554
Base level of Cells (m)	49.154
Pipe invert (m)	49.404
Contributing area (m2)	60
Dimension on Plan (m)	6.0 x 2
Cell Thickness (m)	0.4
Void Space (%)	95
Maximum Storage Volume (m3)	4.56

PHASE: 0 (PRIVATE)

MH No.	MANHOLE DIMENSION (mm)	MANHOLE TYPE	COVER TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)
PS1	250Ø	250 Inspection		50.025	49.663	0.262	511.809	527.928
PS4	250Ø	250 Inspection		50.025	49.662	0.263	525.482	528.071
PS5	250Ø	250 Inspection		50.025	49.523	0.402	525.517	517.003
PS2-Silt Trap	450Ø	450 Inspection		50.025	49.521	0.404	511.897	516.538
PS6-Silt Trap	450Ø	450 Inspection		50.025	49.481	0.444	522.957	514.773
PF1	450Ø	450 Inspection		50.025	47.451	2.474	517.935	516.012
PF2	450Ø	450 Inspection		50.060	47.325	2.636	510.330	516.080
PF3	450Ø	450 Inspection		50.020	47.038	2.882	510.529	533.256
PF4	450Ø	450 Inspection		50.003	46.908	2.996	518.287	534.398
PF5	450Ø	450 Inspection		49.992	47.049	2.842	526.646	532.816
PF6	450Ø	450 Inspection		50.025	47.331	2.594	526.548	515.924
PF7	450Ø	450 Inspection		50.025	47.443	2.482	519.839	515.786

Private Foul Drainage Key

- Foul Inspection Chamber (Depth <0.6m [1 side connection])
- Foul Inspection Chamber (Depth <1.2m [2 side connections])

Private Storm Drainage Key

- Storm Inspection Chamber (Depth <0.6m [1 side connection])
- Storm Inspection Chamber (Depth <1.2m [2 side connections])
- Wavin "Aquacell" Storm Water Management System — Cellular storage tanks suitable for vehicular loading (where applicable) with 95% voids wrapped in a permeable geo-membrane
- Permeable Block Paving — Load Category 4 permeable paving (infiltration) on subgrade 5% soaked CBR. 60mm Permeable Block, 50mm laying course material comprising mostly passing 350mm Type 3 aggregate laid in layers not exceeding 100mm thick, each layer to be well compacted.
- FFL 12.50 — FFL Level
- ACO-Sump
- Filter Drain
- ACO-Rodding Point
- Aco Drain preventing any storm water runoff towards public highway

Anglian Water Sewer Key

- 4402 CL18.38 IL18.38 — Foul Sewer

External Works Key

- 83.550 — 0.05m CONTOUR INTERVAL
- 83.500 — 0.25m CONTOUR INTERVAL

North Arrow

N W E S

NOTES

1. The contractor shall check all tie-ins for line and level with existing before commencing any works. The Engineer shall be notified immediately, in writing, should any errors be found.
2. Any discrepancies, of whatever nature, must be reported to the Engineer prior to the commencement or continuance of any further works.
3. All private drainage works to be in accordance with the requirements of Building Regulations 2010, Part H, "Drainage and waste disposal", (01st October 2015).
4. All pipes to be bedded and backfilled in accordance with Part H, Diagram 10. Shallow pipes shall be protected in accordance with Part H, Diagram 11.
5. Unless otherwise stated, all private drainage to be 100mm diameter. Gradients have been shown where there are pipe capacity issues and these should be regarded as minimums. Unless there are constraints dictating otherwise, gradients shall generally be 1 in 60. 100mm diameter pipes shall not be laid flatter than 1 in 80, 150mm diameter pipes shall not be laid flatter than 1 in 150.
6. All pipes, chambers and fittings to be installed strictly in accordance with the manufacturers instructions.
7. Pipes which run adjacent to buildings shall be installed in strict accordance with Part H, Clauses 2.23 to 2.25 and Diagram 8.
8. All private manholes, inspection chambers and drainage channels to comply with BS EN124. Cover strengths to be:
   Class D400 in heavy trafficked areas (access roads, service yards etc.)
   Class C250 in lightly trafficked areas (car parks, driveways etc)
   Class B125 in Non trafficked areas
   Class A15 in landscaping areas
9. All drains in the vicinity of existing or proposed trees to be constructed in accordance with the requirements of NHBC Practice Note 3.
10. Private drainage frames must be tied to manhole risers by use of manufacturers ties (e.g. Polypipe ref. FRK500 fixing kit and FRK501 black ties.) The ground works contractor will be held fully responsible for any accidents due to incorrect fitting or failure to use the correct manufacturers fixing equipment.
11. All existing land drains encountered on site during construction to be re-connected.
12. Should any departure from the slab level be considered, agreement shall be sought from the Engineer immediately and prior to commencement or continuance of any works, and should take full account of all restrictions to the slab level.
13. Garage slabs relate to the finished level of the concrete at the front entrance of the garage.
14. Where a drive slopes towards a garage there is to be a 75mm ramp up to the garage slab.
15. Maximum gradients of gardens to be 1 in 6 (unless stated otherwise), except for designed banking works.
16. All dimensions in metres unless otherwise stated.
17. As underlying ground conditions may be variable across the site the Contractor shall undertake onsite porosity tests at the location and depth of each soakaway. Tests should be undertaken in accordance with BRE365 and results forwarded to the Engineers to allow verification of designs.
18. All existing services, sewers and drains indicated on this drawing and any other related drawings are shown only indicatively, and shall have their positions and level confirmed on site by the Contractor.
19. The invert levels of all existing sewers, drains, ditches, tanks or other features and apparatus where a new connection is to be made shall have their precise position and level confirmed on site by the Contractor prior to commencement of any construction work. The results of the investigations shall be confirmed to MTC Engineering (Cambridge) Ltd so that the design can be verified.

SOAKAWAY PROTECTION:
Please ensure that during the construction phase all soakaways, gullies and gully laterals are protected from the ingress of silt or grit from the site. Placing a fine heavy duty geotextile under the gully grating, between it and the frame should suffice.

NOTE:
At the location of the proposed lateral connection the contractor shall establish the position and depth of any existing services to prevent any clash in level and abortive costs.

FOR INFORMATION

REV	DATE	DESCRIPTION/REASON FOR ISSUE	APPR

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Tel (01223) 837270, fax (01223) 835648
E-mail office@mtcengineering.co.uk

PROJECT
2 Snailswell Lane
Ickleford Hitchin, Herts

TITLE
Proposed Drainage Design

ORIG: VP	DATE: 25.02.2026
CHKD	SCALE: 1:100@A1
APPR	DRAWING NO: 3671-03 REV -

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