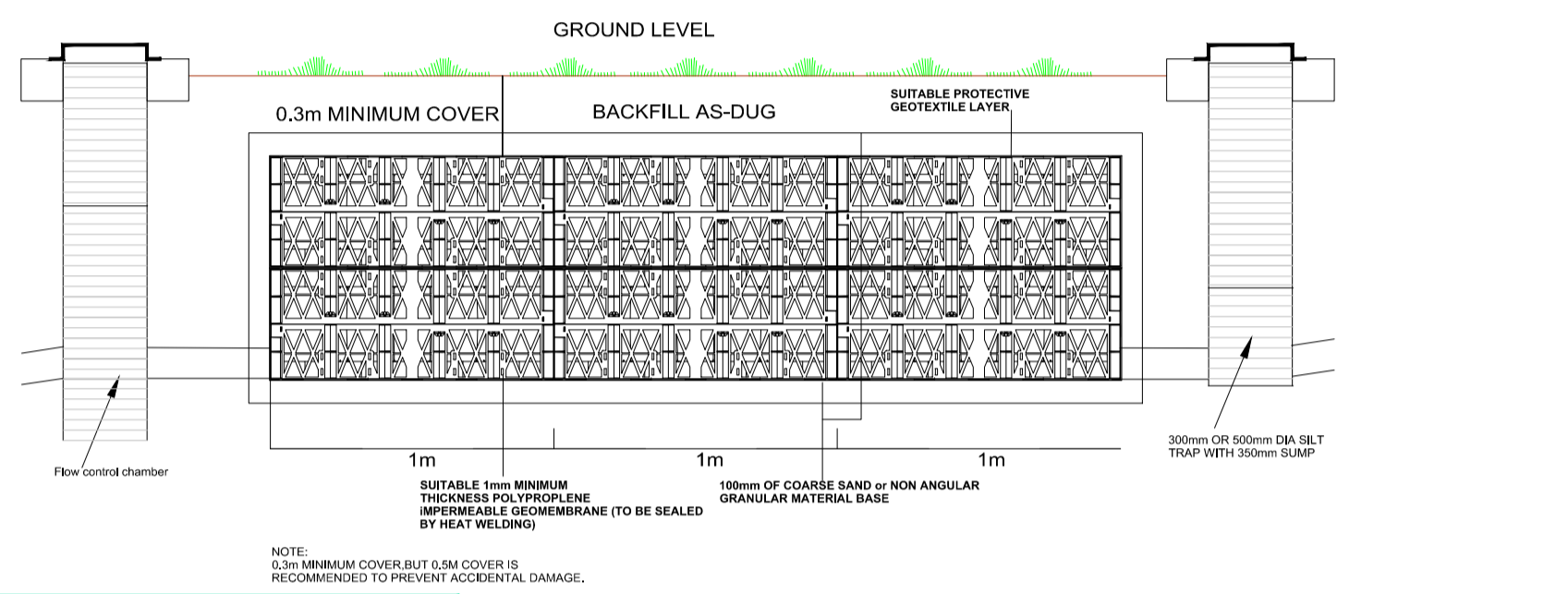
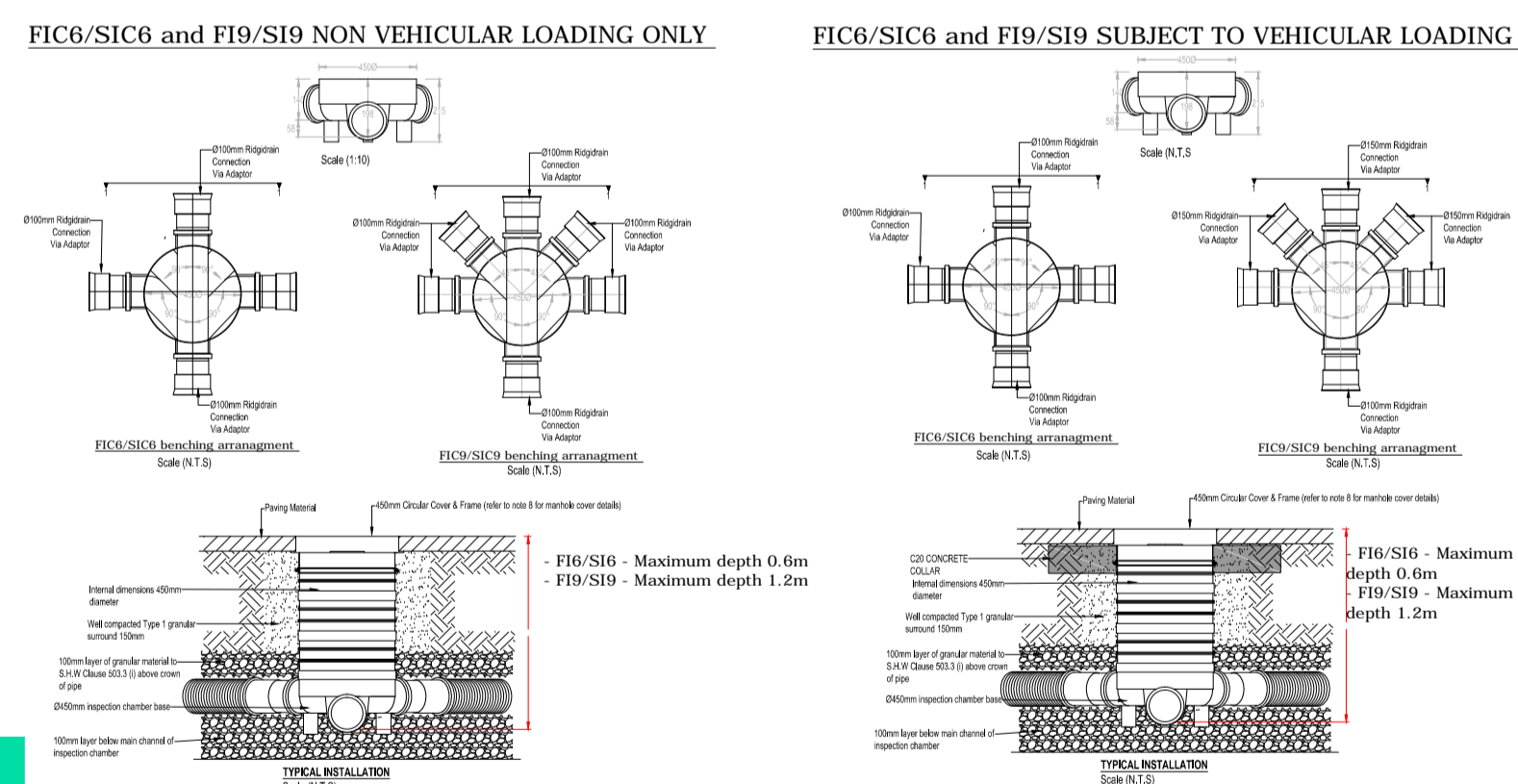


PERMEABLE BLOCK PAVING DETAIL
SCALE: 1:25

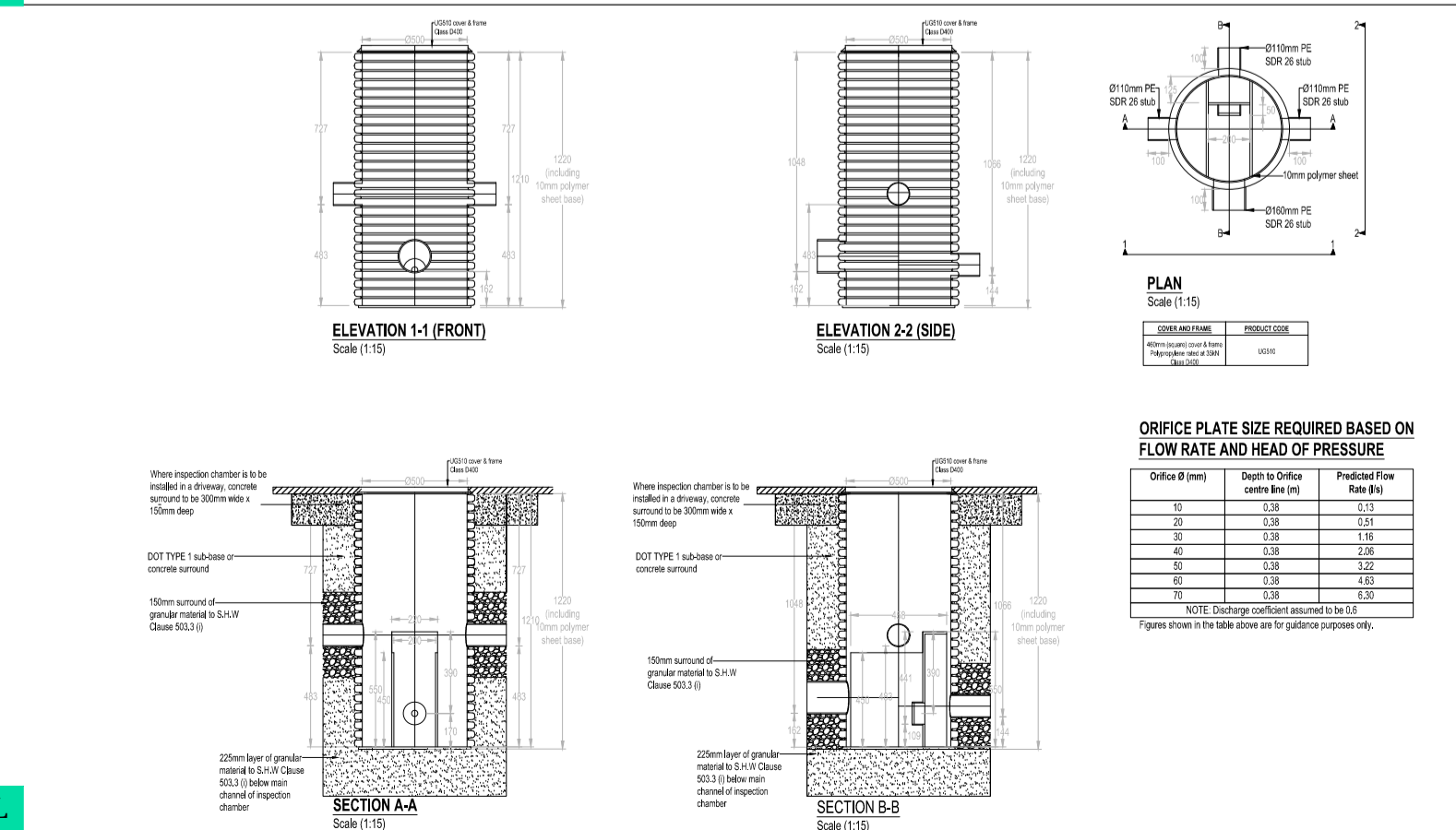


WAVIN CELLULAR STORAGE SYSTEM DETAIL
SCALE: 1:25

SKELI DIFFUSER BOX DETAIL
SCALE: N.T.S.



INSPECTION CHAMBER DETAIL
SCALE: N.T.S.

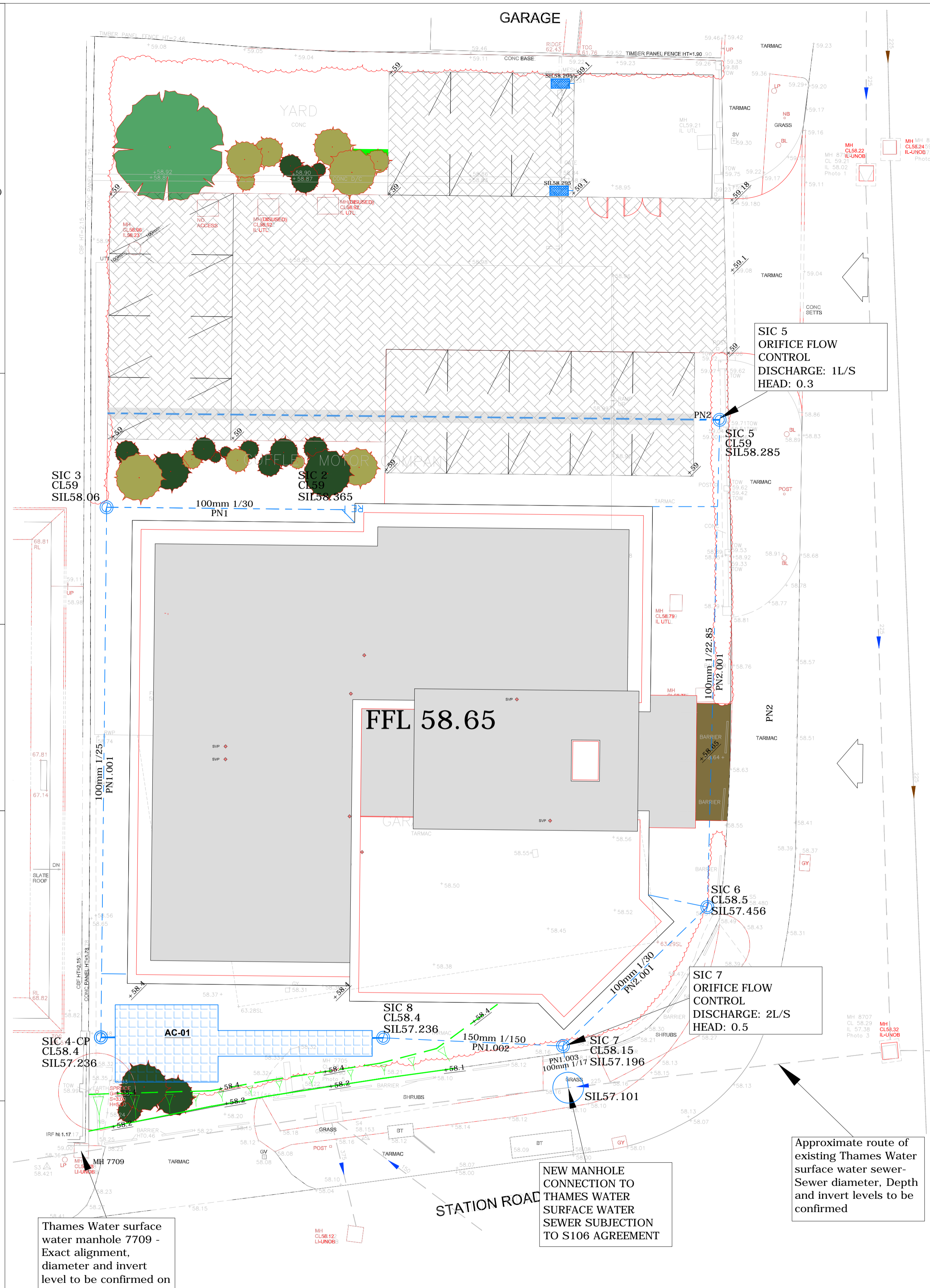


ORIFICE FLOW CONTROL DETAIL
SCALE: N.T.S.

CONSTRUCTION SPECIFICATION (CIRIA C753 TABLE 20.5 CATEGORY 3 LOADING (CBR >2)

Driveway Construction:

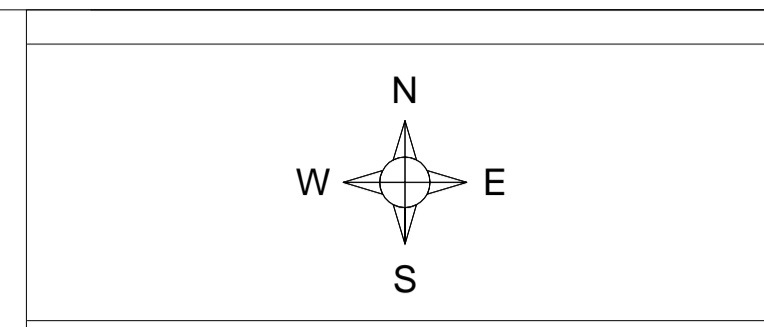
- Surface Course - 80mm Priors Concrete Block (or similar approved) laid on 50mm of 6mm clean gravel
- Sub-Base - 275mm of open graded crushed rock (SudsAgg) (Type 3) 30% voids with aggregates compacted in layers not exceeding 150mm laid on a impermeable membrane
- Capping - assuming a substrate CBR of >2%, 175mm of Type 1 compacted in layers not exceeding 100mm



Thames Water surface water manhole 7709 - Exact alignment, diameter and invert level to be confirmed on site.

TYPE-OF-SYSTEM	AC-01
Lowest Cover Level (m)	58.4
Level top of Cells (m)	58.036
Base level of Cells (m)	57.236
Pipe invert (m)	57.236
Dimension on Plan (m)	(3 X 4) + (1 X 6)
Cell Thickness (m)	0.8
Void Space (%)	95%
Maximum Storage Volume (m ³)	13.68

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



- NOTES
- The contractor shall check all the lines and levels with existing before commencing any works. The Engineer shall be notified immediately, in writing, should any errors be found.
 - Any discrepancies, of whatever nature, must be reported to the Engineer prior to the commencement or continuation of any further works.
 - All private drainage works to be in accordance with the requirements of Building Regulations 2010, Part H, "Drainage and waste disposal", (01st October 2015).
 - 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.
 - 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 80. 100mm diameter pipes shall not be laid flatter than 1 in 80. 150mm diameter pipes shall not be laid flatter than 1 in 150.
 - All pipes, chambers and fittings to be installed strictly in accordance with the manufacturers instructions.
 - Pipes which run adjacent to buildings shall be installed in strict accordance with Part H, Clauses 2.23 to 2.25 and Diagram 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 C500 in lightly trafficked areas (car parks, driveways etc.) Class B125 in Non trafficked areas Class A15 in landscaping areas
 - All drains in the vicinity of existing or proposed trees to be constructed in accordance with the requirements of BSIC Practice Note 3.
 - Private drainage frames must be tied to manhole risers by use of manufacturers ties (e.g. Polypipe ref. FRK500 fitting 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 fitting equipment.
 - All existing land drains encountered on site during construction to be re-connected.
 - Should any departure from the slab level be considered, agreement shall be sought from the Engineer immediately and prior to commencement or continuation of any works, and should take full account of all restrictions to the slab level.
 - Garage slabs relate to the finished level of the concrete at the front entrance of the garage.
 - Where a drive slopes towards a garage there is to be a 75mm ramp up to the garage slab.
 - Maximum gradients of gardens to be 1 in 6 (unless stated otherwise), except for designed banking works.
 - All dimensions in metres unless otherwise stated.
 - As underlying ground conditions may be variable across the site the Contractor shall undertake suitable ground 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.
 - 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.
 - 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.

- Private Drainage Key
- Storm Inspection Chamber (Depth < 0.6m (1 side connection))
 - Storm Inspection Chamber (Depth < 1.2m (2 side connections))
 - Storm BR manhole FCC Ring (1.2-1.5m)
 - Storm BR manhole FCC Ring (1.5-2.7m)
 - Backdrop on SW Chamber
 - Rodding eye with Invert Level
 - FFL Level
 - Diffuser Box
 - Banking with Top of Bank and Bottom of Bank Levels
- Surface Water Attenuation
- Wavin 'Agnace' 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. 80mm Permeable Block, 50mm laying course material comprising mostly passing 6.3mm sieve and mostly retained on a 3mm sieve. 70mm dense bitumen macadam hole punched with 75mm Dia holes at 750mm centres. 300mm Type 3 aggregate laid in layers not exceeding 100mm thick, each layer to be well compacted.

PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION/REASON FOR ISSUE	SEC	APPR
A	16.06.22	ADDITIONAL DETAILS ADDED	SEC	

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TITLE
71 Station Road, Cuffley Potters Bar Indicative Drainage Plan

ORIG	S.E.C	DATE	02.02.21
CHKD		SCALE	1:100@A1
APPR		DRAWING NO	2592-05
		REV	A

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