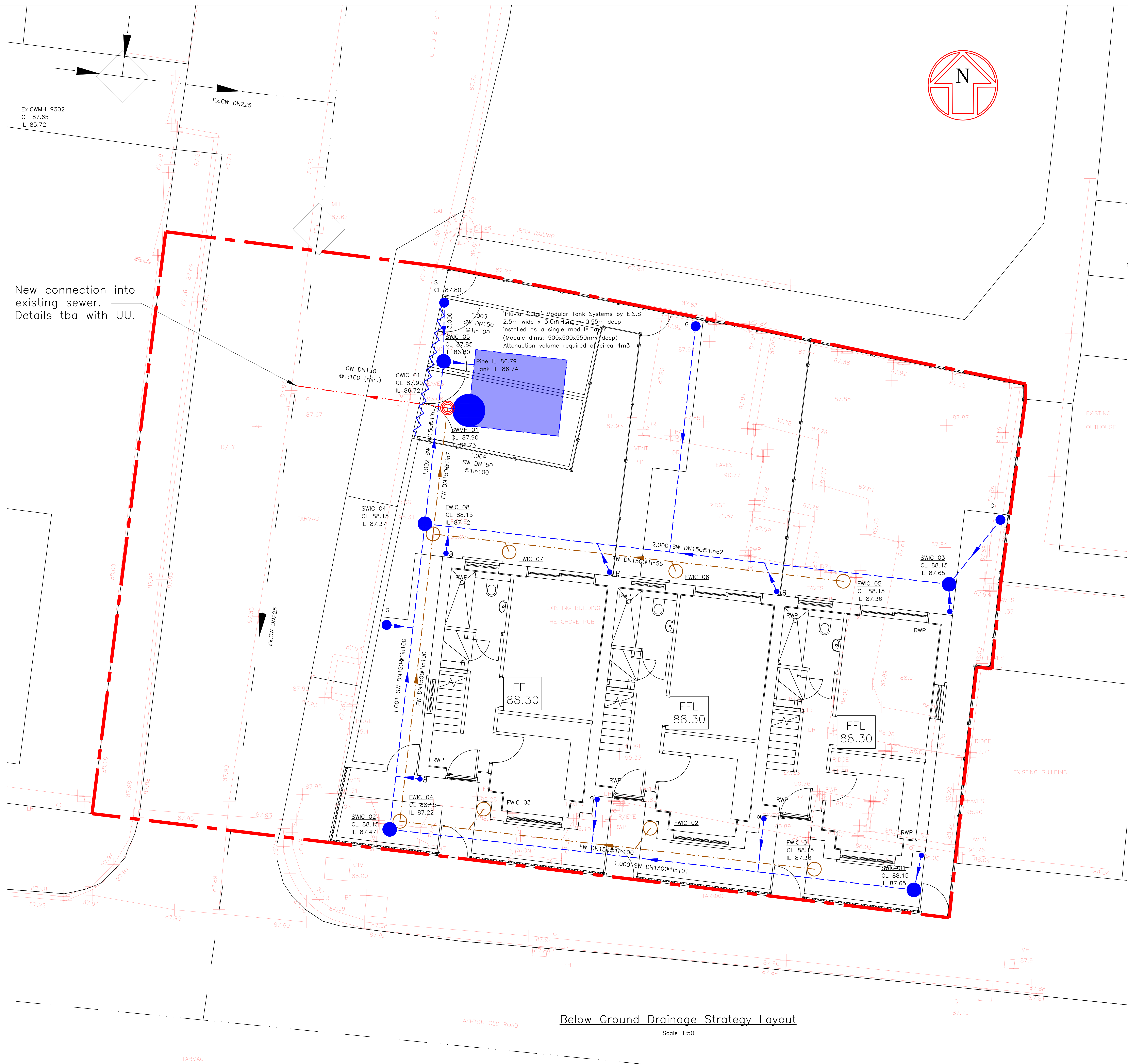


Legend

	G – New gully
	RWP – New rain water pipe
	S – New sump
	SWIC – New surface water inspection chamber
	SWMH – New surface water manhole
	FWMH – New foul water manhole
	FWIC – New foul water inspection chamber
	Ex.FWMH – Existing foul water manhole
	Ex.CWMH – Existing combined water manhole
	Ex.SWMH – Existing surface water manhole
	New surface water drain
	Existing surface water drain
	New drainage channel
	New foul water drain
	Existing foul water drain
	New combined water drain
	Existing combined water drain
	Existing site levels
	Proposed finish levels
	Proposed fall direction
	Site boundary, tbc by Architects

New connection into existing sewer.
Details tba with UU.



Below Ground Drainage Strategy Layout

Scale: 1:50

All new drainage pipes/ inspection chambers to be Polypipe drainage system or similar approved up to 375mm dia. Bedding in accordance with the manufacturers details.

Location/ details of existing sewer taken from United Utilities letter ref. UUPS-ORD-310889.

Location/ size etc. of RWP's, IC's, pipes indicative only subject to detailed design.

Levels indicative only, subject to SI and earthworks design.

Drawing is based on Topographical Land Survey drawing 1176/01 & 02, by Layer Surveys Ltd.

Drawing is based on Architect's drawing 'Proposed Indicative MasterPlan' drawing BG-EWA-ZZ-00-DR-A-70400.

Location/ details of existing sewers on site taken from drainage survey job number 933UTIL/01 by Layer Surveys Ltd.

Attenuation design for 1 in 100 storm event plus 40% climate change allowance based on 2.0l/s @ 0.6m, tba with UU.

Notes.

- All dimensions are in millimetres unless noted otherwise.
- All levels are in metres unless noted otherwise.
- This drawing is to be read in conjunction with all relevant Architects and Service Engineers drawings.
- All drainage pipes to be Polypipe adoptable drainage system, or similar approved up to 375mm dia and concrete from 450mm dia. Bedding in accordance with manufacturers details.
- All road gullies to have Grade D400 gratings to B.S.E.N. 124 with 450mm x900mm deep Pre-cast concrete or polyethylene pots by Polypipe or similar approved. Trapped gullies to be used when connecting to a combined sewer.
- Manholes to be precast concrete rings to BS 5911 min 1200 dia u.n.o. to hard/ trafficked areas.
- Invert levels quoted are exit inverts.
- Pipes with cover of less than 900mm under road/paved and 600mm under landscaped areas to be encased in concrete bedding class S.
- SW drains to achieve a minimum pipe velocity of 1.0 m/s.
- Proprietary items ie SW pipes, drainage channels, inspection chambers etc to be installed in accordance with the manufacturers recommendations.
- All drainage is to comply with the requirements of BS EN 752 & Building Regulation part H.

Drawing indicative and for strategy purposes only. Final design/ details to be provided for construction.

P1	JS	09/22	Issued for Information
Rev	Drawn	Date	Description
Drawing Status			
INFORMATION			
Contract			
1515 ASHTON OLD ROAD MANCHESTER			
Drawing Title			
BELOW GROUND DRAINAGE STRATEGY LAYOUT (WITH TOPO)			
integra consulting Civil & Structural Engineers			
Tel : 0161 237 3400 Fax : 0161 237 3635 Email : manchester@integraconsulting.co.uk Web : www.integraconsulting.co.uk			
Scales		Date	
1:50 @ AO		09/2022	
Drawn		Checked	
JS		NS	
Contract No		Drawing No	
3338		002	
		Rev	
		P1	