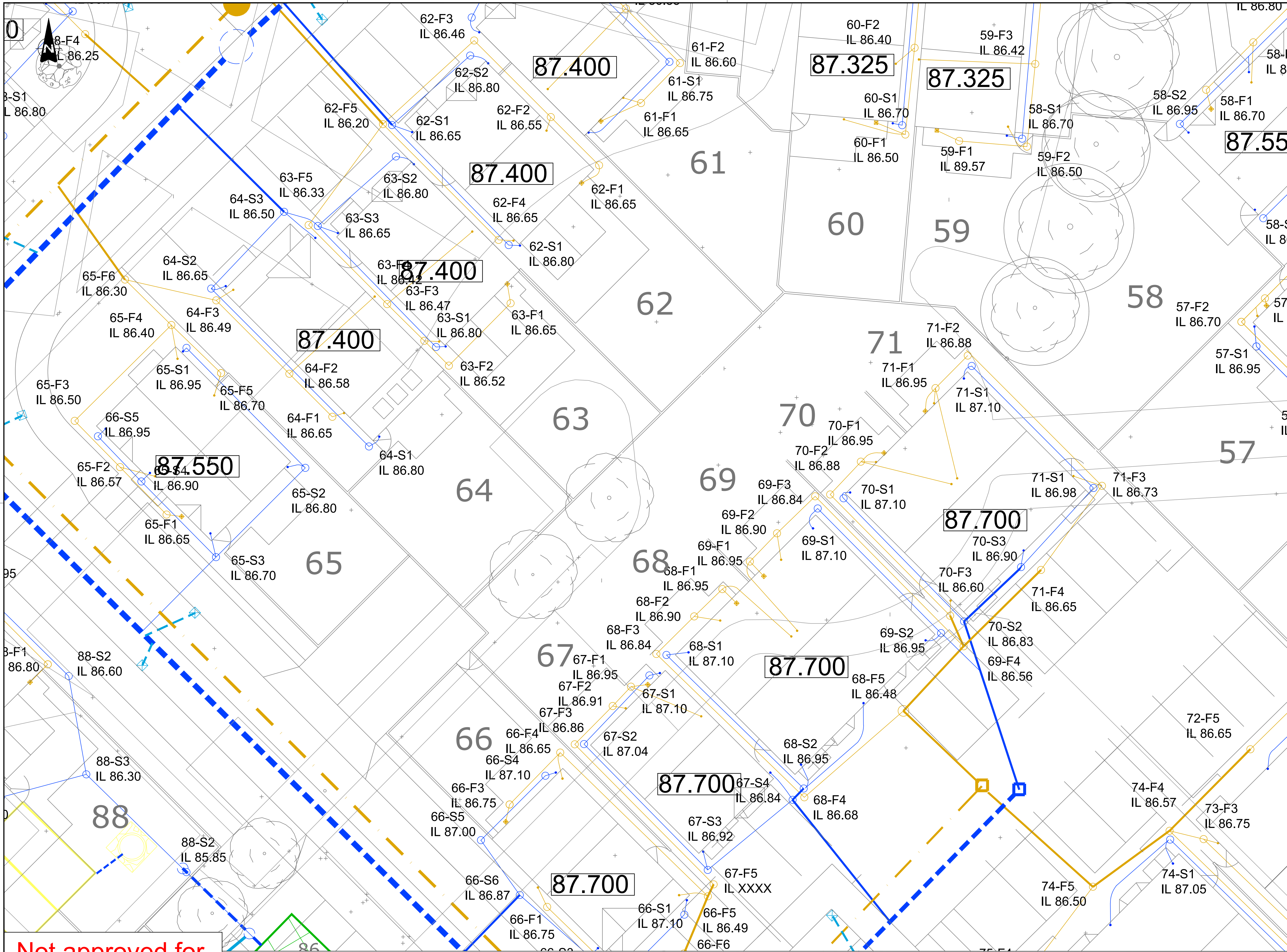




NOTES:

- Do not scale from this drawing. If in doubt refer to the Engineer for clarification.
- All levels in mAOD unless otherwise specified. All dimensions in metres unless otherwise specified.
- Scheme layout from DS Jones & Co drawing DSJ10408.10.
- Drainage works adoptable by Dwr Cymru shall comply with *The Welsh Ministers standards for new gravity foul sewers and lateral drains or sewers for adoption 7th Edition* (SRA) as appropriate.
- Private drainage works shall comply with the *Building Standards part H*. Highway drainage adoptable by Wrexham Council shall comply with SHW and with WVC requirements as appropriate.
- Drainage construction details are shown on dwgs 109540-510 - 513.
- Trunk-sewer layouts and long sections are shown on dwgs 106540-504-506 and 521-532 respectively.
- Manhole cover levels are listed to match the wearing-course finished surface. Where new roads are constructed initially to base-course, gully gratings and manhole covers are to be set to match (40mm lower than shown) unless instructed otherwise.
- All mortar, in-situ or precast concrete must use sulphate-resisting Portland cement or alternative as per clause E2.9 (SRA). The BRE SD1 ratings are DS-1 and AC-1.
- Manhole covers for adoptable manholes in estate roads to be rated at D400 (to BS EN124) and kile-marked. Covers to inspection chambers in driveways or other off-road areas to be rated at B125 and kile-marked.
- All pre-cast concrete manholes to be to BS EN1916:2002 / BS 5911-1 2002 and kile-marked.
- All PE and PVCu pipes to comply with the appropriate sections of *Sewers for Adoption 7th Edition*.
- All Vitrifed Clay pipes to be to BS EN 295 and kile-marked. VC pipe strength class to be minimum 34kN/m in accordance with Table 5, BS EN295-1 for pipes up to 150 dia.
- All concrete pipes to be to BS EN1916 and BS5911-1 and kile-marked. Concrete pipe strength to be Class 120 in accordance with Table 8 BS5911-1.
- PE and PVCu pipes to comply with the relevant clauses of *Sewers for Adoption 7th Edition*.
- All private drains are 100m dia unless stated otherwise. All private inspection chambers have minimum internal diameter of 450mm.
- Bedding fill for Type S bed & surround to be mixed gravel in accordance with WIS 4-08-01, sized as below:

Pipe Dia	Aggregate size
100	10mm (single size)
150-225	5 - 14mm
- Sewers beneath roads and communal parking areas to be backfilled above the bed & surround with Type 1 or Type 2 granular fill laid and compacted in layers not exceeding 0.3m thick up to the underside of the pavement construction - this includes any porous sub-base for permeable pavements. Sewer lengths beneath gardens or driveways may be backfilled with selected excavated fill laid and compacted in layers to suit the material, subject to the Engineer's prior approval of the proposed backfill material.

Key:

- Trunk surface-water sewer & manhole/inspection chamber
- Trunk foul-water sewer & manhole/inspection chamber
- Private surface-water drain & inspection chamber
- Private foul-water drain & inspection chamber
- Lateral surface-water drain
- Lateral foul-water drain
- Highways surface-water drain & inspection chamber
- Proprietary cellular infiltration & storage feature
- Site Boundary
- Finished floor level

Rev.	Date	Revision details	Drawn	Checked	Approved

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Client: Edwards Homes Ltd

Project: Plas Coch North Quarter
Glyndwr University, Wrexham

Title: Private Drainage Layout
Sheet 9 of 12

Drawn	RD	Checked	JC	Approved	TD
Original dep. size	A1	Date	Sept 2021	Scale	1:100
Drawing Status	Approval	Drawing Number	109540-529	Rev.	-

Not approved for construction

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