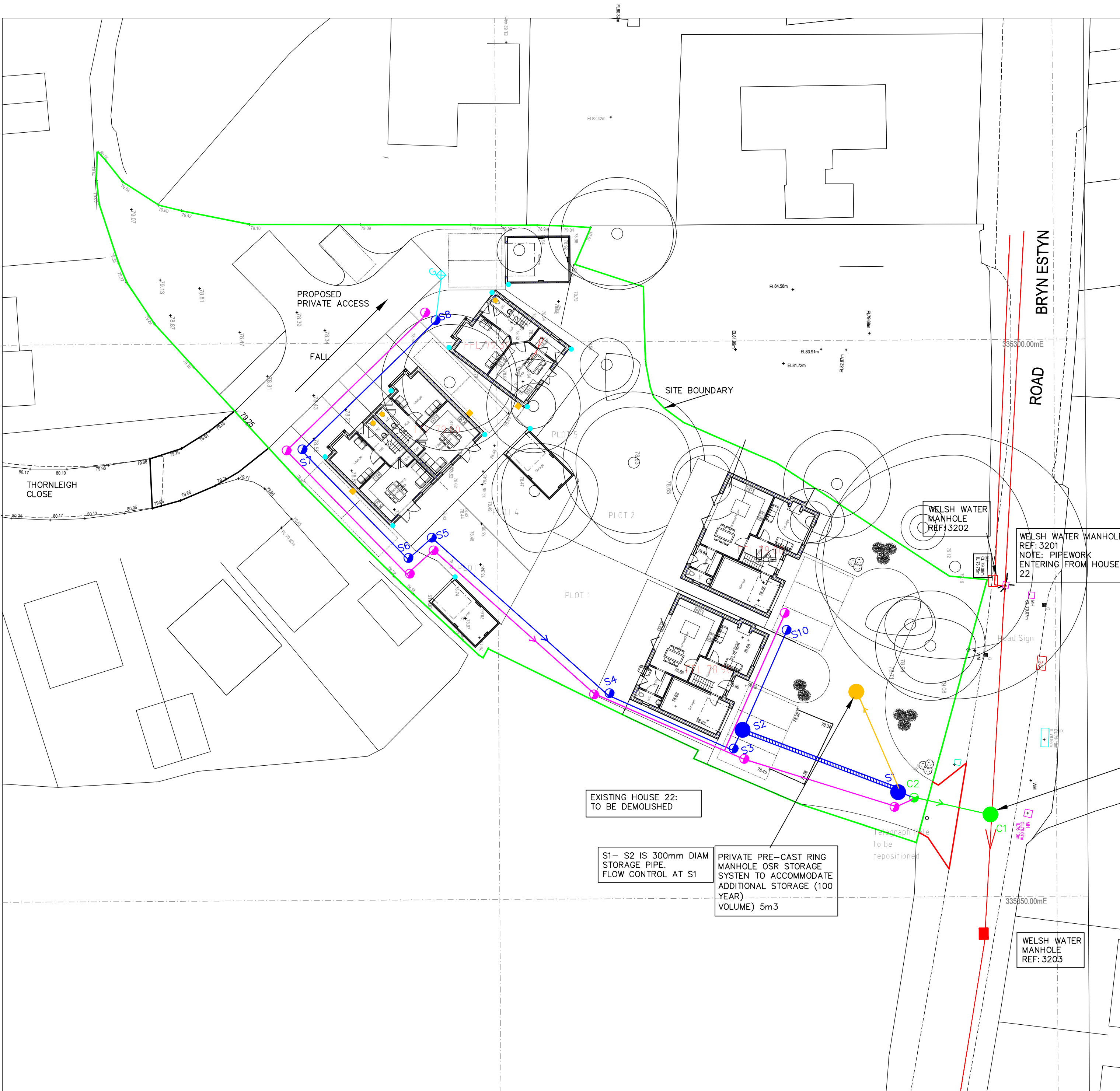


LEGEND

EXISTING 300mm COMBINED SEWER AND MANHOLE

PROPOSED ADOPTABLE DRAINAGE

- C1 TYP2 2 PRE-CAST RING MANHOLES
- F1 COMBINED SEWER AND MANHOLE
- S1 FOUL SEWER AND MANHOLE (100mm UNLESS STATED)
- S1 SURFACE WATER SEWER AND MANHOLE

DRAINAGE TYPE 3,4 PLASTIC PPIC MANHOLES

- FL1 FOUL ADOPTABLE
- SL1 SURFACE WATER
- SL1 MINI-ACCESS CHAMBERS (180mm DIAM)

PROPOSED PRIVATE DRAINAGE

- FP1 FOUL AND INSPECTION CHAMBER (100mm UNLESS STATED)
- SP1 SURFACE WATER AND INSPECTION CHAMBER (100mm UNLESS STATED)
- SL1 MINI-ACCESS CHAMBERS (180mm DIAM)
- SOIL VENT PIPE
- BACK INLET GULLY
- RAINWATER PIPE
- RODDING EYE
- PRIVATE GULLY [SIZED AS ROAD GULLY]
- DRAINAGE CHANNEL [SEPARATE CHANNEL FOR EACH PROPERTY]

DRAWING LEGEND GENERAL

- EXISTING LEVEL FROM SURVEY
- FFL100.00 PROPOSED FINISHED FLOOR LEVELS
- 7.00 PROPOSED LEVEL
- DIRECTION OF FALL

DRAINAGE STATEMENT:
5 PROPOSED HOUSES IN EXISTING FIELD.
SITE IS CLAY AND WILL NOT SOAK

FOUL AND SURFACE WATER OFFERED FOR ADOPTION TO WELSH WATER. AN EASEMENT WILL BE REQUIRED

SURFACE WATER:
FLOW CONTROL AT MANHOLE S1 RESTRICTING OUTFLOW TO 5 LITRES/s.
DRAINS TO PROPOSED COMBINED MANHOLE C2
STORAGE REQUIRED 3.8m³, CONTAINED IN 300mm PIPEWORK AND MANHOLES S1, S2

FOUL:
DRAINS TO PROPOSED COMBINED MANHOLE C2
PROPOSED COMBINED SEWER TAKES FLOW TO NEW MANHOLE C1 IN BRYN ESTYN LANE

100 YEAR EMERGENCY DISCHARGE: VOLUME 4.98m³ CONTAINED IN PRIVATE STORAGE MANHOLE

- NOTES**
- LAYOUT AND SURVEY TAKEN FROM DRAWING NUMBER C077/016 REV B
DATED DEC 2107, BLUEPRINT ARCHITECTS
- PRIVATE DRAINAGE**
- ALL HOUSE DRAINAGE SHALL COMPLY WITH BS 8301 : 1985.
 - PIPEWORK**
PIPEWORK UNDER PARKING AREAS / ACCESS ROAD TO BE UPVC AS WATER AUTHORITY STANDARD.
ALL OTHER PIPEWORK TO BE UPVC TO BS 4460
 - INSPECTION CHAMBERS / MANHOLES**
SEE DRAWING /
 - MANHOLE COVERS**
MANHOLE COVERS TO INSPECTION CHAMBERS IN DRIVEWAYS / TRAFFIC AREAS TO BE BS 497 GRADE 'B' MEDIUM DUTY.
MANHOLE COVERS TO INSPECTION CHAMBERS IN LANDSCAPED AREAS TO BE BS 497 GRADE 'C' LIGHT DUTY.
 - BEDDING**
HOUSE DRAINS TO BE LAID ON GRANULAR BEDDING DETAILED ON DRAINS LOWER THAN AND ADJACENT TO FOOTINGS TO HAVE CONCRETE BED AND SURROUND

- PIPE STRENGTH & TYPE: ADOPTABLE DRAINAGE**
SEWERS FOR ADOPTION: UPV/PLASTIC
Thermoplastic To be Sewers for Adoption 7th CI E.2.21, E.2.22
Pipes to 500mm diameter shall have short-term stiffness not less than 8 kN/m²[SN8]
Pipes greater than 500mm diameter shall have short-term stiffness not less than 2 kN/m²[SN2]
VITRIFIED CLAY [VC], if used, to be flexible jointed spigot and socket in accordance with Sewers for Adoption 7th CI E2.18
- BEDDING.**
Bedding to be in accordance with Sewers for Adoption 7th CI E2.25, E5.2, E5.4. and BS 1295-1
- COVER.**
- MINIMUM COVER REQUIRED TO CROWN FOR ADOPTABLE DRAINAGE:**
Domestic gardens and paths 0.35m
Driveways, light parking 0.5m
Driveways, light parking 0.9m
Public open space 0.9m
Roads 1.2m
Cover less than this require protection, See drawing 1331-03 details
- CHAMBERS AND MANHOLES**
To be in accordance with Sewers for Adoption 7th CI E2.32

PRELIMINARY DRAWING FOR PLANNING PURPOSES:
DETAILED DESIGN IS PENDING

PENDING WELSH WATER APPROVAL PRELIMINARY				
B	DRAINAGE REVISED ALTERNATIVE ROUTE	24.01.18	AK	AK
A	DRAINAGE REVISED	5.12.17	AK	AK
Rev	Description	Date	Drwn	Chkd

KANE DESIGN
Civil Engineering Design

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Gresford
Wrexham
LL12 8HH

Tel: 01 978 855888

Client

N. COPELAND

Project

PROPOSED DEVELOPMENT TO LAND AT
REAR OF 22 BRYN ESTYN ROAD, WREXHAM

Title

**DRAINAGE LAYOUT
FOR PLANNING PURPOSES**

DRAWING NUMBER	SCALE	1:250	@ A1
1370/100	DATE	30.09.17	REVISION
	DRAWN	AK	B
	CHECKED	A.K	