

DRAINAGE SCHEDULE:

REF	COVER LEVEL(m)	INVERT LEVEL(m)	DEPTH TO INVERT(m)	MAIN PIPE DIA (mm)	WELSH WATER REF:	MANHOLE TYPE	LOCATION/ COVER TYPE	NOTES
F1	175.10	174.20	0.90	100	TYPE 4	MAC	TYPE B125	GRADE 1:8
F2	174.65	173.35	1.30	100	TYPE 3	PPIC	TYPE D400	GRADE 1:19
EXISTING	173.78	172.38	1.40	150		EXISTING		
F3	175.10	174.20	0.90	100	TYPE 4	MAC	TYPE B125	GRADE 1:9 TO F2
F4	175.10	174.20	0.90	100	TYPE 4	MAC	TYPE B125	GRADE 1:7 TO F2

ALL ADOPTABLE MATERIALS AND WORKMANSHIP CONFORM TO PART E of "SEWERS FOR ADOPTION" 7th EDITION.

NOTE:
ARCHITECT TO CONFIRM LOCATIONS OF FOUL OUTLETS AND RAIN WATER PIPES
INSPECTION CHAMBER LOCATIONS MAY BE ADJUSTED TO SUIT SITE CONDITIONS
ALL LEVELS TO BE CONFIRMED

MAC= POLYPROPYLENE MINI-ACCESS CHAMBER [180mm DIAMETER]
PPIC = POLYPROPYLENE INSPECTION CHAMBER [450mm DIAMETER]
PC = PRE-CAST CONCRETE RINGS
ALL PIPEWORK TO BE UPVC TO BS 4660
ALL FOUL GRADES 1:80 UNLESS NOTED

PPIC INSPECTION CHAMBERS TO BEEN 125 AND BS 7903
MANHOLE / INSPECTION CHAMBER COVERS;
MAIN ACCESS / ROAD: HEAVY DUTY CLASS D400
CAR PARKING AREA: MEDIUM DUTY CLASS B125
NO VEHICULAR ACCESS: LIGHT DUTY CLASS A15

DRAINAGE LEGEND

	EXISTING PUBLIC DRAINAGE
	EXISTING 150mm COMBINED SEWER AND MANHOLE
PROPOSED DRAINAGE: [SHOWN OVERSIZE FOR CLARITY]	
	ADOPTBLE FOUL SEWER AND MANHOLE
	PRIVATE DRAINAGE
	SURFACE WATER SEWER AND MANHOLE
	FOUL SEWER AND MANHOLE
	SOIL VENT PIPE
	BACK INLET GULLY
	RAINWATER PIPE (RWP)
	RODDING EYE
	PRIVATE GULLY: LOCATIONS TO BE CONFIRMED
	DRAINAGE CHANNEL: LOCATIONS TO BE CONFIRMED
	PROPOSED FINISHED FLOOR LEVELS
	SURVEY SPOT LEVEL
	PROPOSED LEVEL

WELSH WATER NOTE:

THE DEVELOPER MUST SELF-VET AND CERTIFY THAT THE DESIGN CRITERIA, MATERIAL STANDARDS, WORKMANSHIP, SPECIFICATIONS, ARE IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH, AND THE WELSH MINISTERS STANDARDS AND THE REQUIREMENTS OF DCWW AS THE STATUTORY SEWERAGE UNDERTAKER
SUBJECT TO A SECTION 104 ADOPTION AGREEMENT BEING COMPLETE, A SECTION 106 APPLICATION TO CONNECT MUST BE MADE TO DCWW. THE DEVELOPER SHALL GIVE 21 DAYS NOTICE PRIOR TO CONNECTION. THE WORKS MAY ONLY BE UNDERTAKEN BY AN SSIP HEALTH & SAFETY APPROVED CONTRACTOR

NOTES

- 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 Cl 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 Cl E2.18
- BEDDING.
Bedding to be in accordance with Sewers for Adoption 7th Cl E2.25, E5.2, E5.4. and BS 1295-1
COVER.
3. 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 Cl E2.32

CONTRACTOR TO ENSURE THAT THE ADOPTABLE UPVC PIPES MEET WELSH WATER STANDARDS.
EXAMPLES:
POLYPIPE RIGID DRAIN: DOES NOT COMPLY
POLYPIPE RIGI-SEWER DOES COMPLY
PIPES TO BE LAID IN 3m Lengths, OR 10 X DIAMETER

LAYOUT TAKEN FROM FROM ARCHITECTS DRAWING FC32/RW0216/4 -WD06, DATED 16 JUNE 2016

FOR CONSTRUCTION DETAILS SEE DRAWING 02

PENDING WELSH WATER APPROVAL

D	MANHOLE COVERS REVISED	20/9/18	AK	AK
C	WELSH WATER COMMENTS	13/9/18	AK	AK
B	WELSH WATER COMMENTS	5/9/18	AK	AK
A	DRAINAGE LAYOUT REVISED	6/6/18	AK	AK
Rev	Description	Date	Drwn	Chkd

KANE DESIGN
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Client

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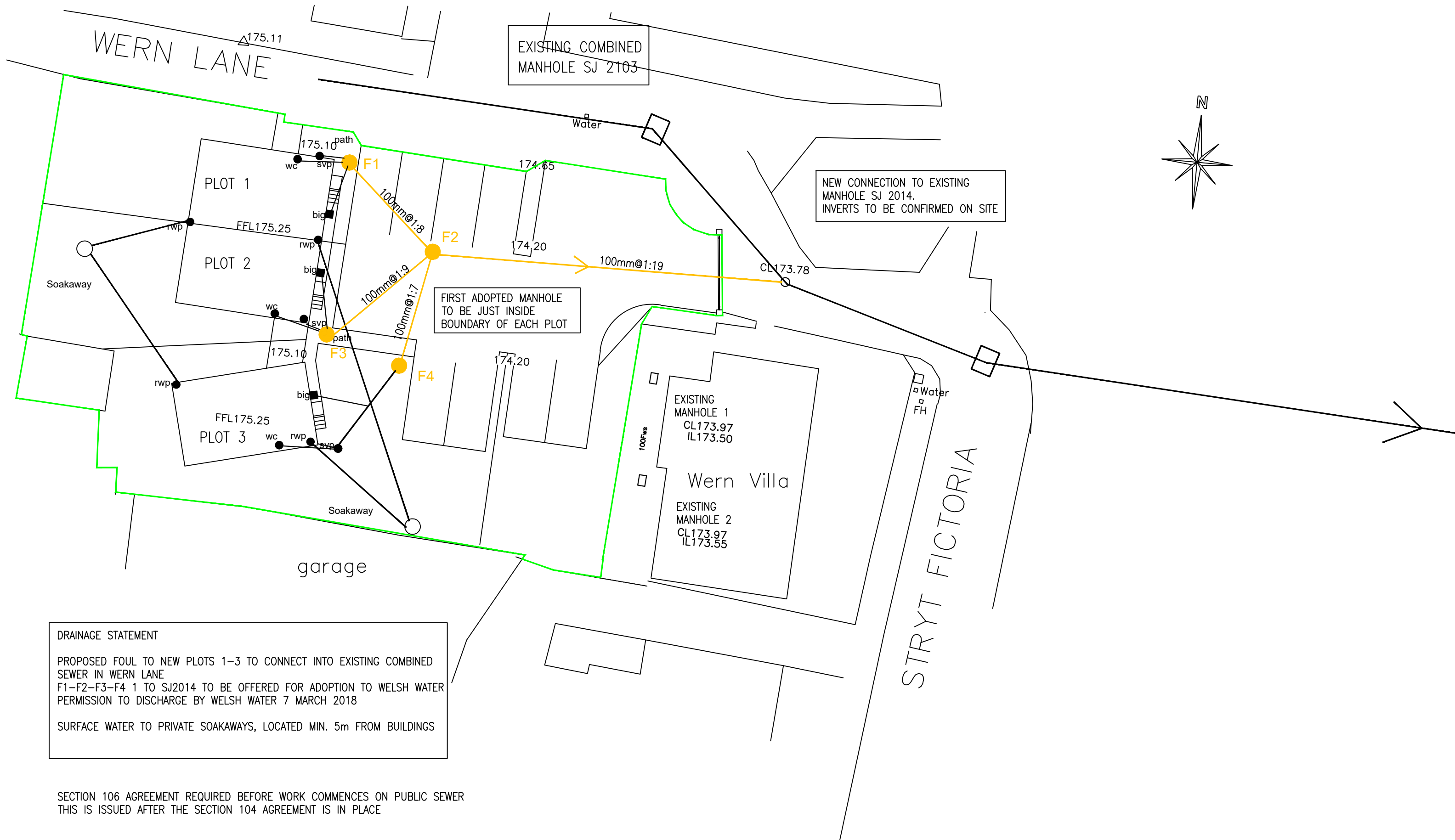
Project

PROPOSED THREE DWELLINGS at
WERN HOUSE, WERN LANE, WREXHAM LL14 2BT

Title

DRAINAGE LAYOUT
SECTION 104

DRAWING NUMBER	SCALE	1:200 or as Noted @ A1		
1409/01	DATE	17:05.18	REVISION	
	DRAWN	AK	D	
	CHECKED	A.K		



DRAINAGE STATEMENT
PROPOSED FOUL TO NEW PLOTS 1-3 TO CONNECT INTO EXISTING COMBINED SEWER IN WERN LANE
F1-F2-F3-F4 1 TO SJ2014 TO BE OFFERED FOR ADOPTION TO WELSH WATER PERMISSION TO DISCHARGE BY WELSH WATER 7 MARCH 2018
SURFACE WATER TO PRIVATE SOAKAWAYS, LOCATED MIN. 5m FROM BUILDINGS

SECTION 106 AGREEMENT REQUIRED BEFORE WORK COMMENCES ON PUBLIC SEWER
THIS IS ISSUED AFTER THE SECTION 104 AGREEMENT IS IN PLACE