DRAINAGE STRUCTURE TABLE

REF	COVER LEVEL	INVERT LEVEL	STRUCTURE DEPTH	STRUCTURE DESCRIPTION	COVER STRENGTH CLASS	LOCATION	NOTES
COM1	46.174m	44.200m	1.974	1.50 m Ø PCC MH	B125	EXTERNAL - PRIVATE GARDEN	
COM2	46.204m	43.250m	2.954	1.50 m Ø PCC MH	D400	EXTERNAL - ADOPTED HIGHWAY	
PF1	46.654m	46.038m	0.616	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PF2	46.668m	45.288m	1.380	WAVIN RANGE 450 PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PF4	46.963m	46.460m	0.502	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PF5	46.975m	45.152m	1.823	WAVIN RANGE 450 PPIC	B125	EXTERNAL - PRIVATE PATH	
PF6	46.775m	46.089m	0.687	PPIC	B125	EXTERNAL - PRIVATE PATH	
PF7	46.701m	45.023m	1.677	WAVIN RANGE 450 PPIC	B125	EXTERNAL - PRIVATE PATH	
PF8	46.776m	44.800m	1.976	WAVIN RANGE 450 PPIC	B125	EXTERNAL - PRIVATE PATH	
PF9	45.984m	45.412m	0.572	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PF11	45.955m	45.114m	0.841	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PF14	46.201m	44.558m	1.643	WAVIN RANGE 450 PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PF15	45.970m	45.520m	0.450	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PF50	46.671m	46.071m	0.600	PPIC	B125	EXTERNAL - PRIVATE GARDEN	OFFLINE STRUCTURE
PF51	46.688m	46.088m	0.600	PPIC	B125	EXTERNAL - PRIVATE GARDEN	OFFLINE STRUCTURE
PF52	47.053m	46.453m	0.600	PPIC	B125	EXTERNAL - PRIVATE PATH	OFFLINE STRUCTURE
PF53	46.938m	46.338m	0.600	PPIC	B125	EXTERNAL - PRIVATE PATH	OFFLINE STRUCTURE
PF54	46.938m	46.338m	0.600	PPIC	B125	EXTERNAL - PRIVATE PATH	OFFLINE STRUCTURE
PF55	46.787m	46.187m	0.600	PPIC	B125	EXTERNAL - PRIVATE PATH	OFFLINE STRUCTURE
PF56	46.226m	45.626m	0.600	PPIC	B125	EXTERNAL - PRIVATE PATH	OFFLINE STRUCTURE
PF57	46.137m	45.537m	0.600	PPIC	B125	EXTERNAL - PRIVATE PATH	OFFLINE STRUCTURE
PF58	46.137m	45.537m	0.600	PPIC	B125	EXTERNAL - PRIVATE PATH	OFFLINE STRUCTURE
PF59	46.137m	45.537m	0.600	PPIC	B125	EXTERNAL - PRIVATE PATH	OFFLINE STRUCTURE
PF60	46.137m	45.537m	0.600	PPIC	B125	EXTERNAL - PRIVATE PATH	OFFLINE STRUCTURE
PF61	45.977m	45.377m	0.600	PPIC	B125	EXTERNAL - PRIVATE GARDEN	OFFLINE STRUCTURE
PS1	46.605m	46.005m	0.600	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PS2	46.871m	45.721m	1.150	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PS3	46.556m	45.866m	0.691	PPIC	B125	EXTERNAL - PRIVATE DRIVEWAY	
PS4	46.726m	45.472m	1.253	WAVIN RANGE 450 PPIC	B125	EXTERNAL - PRIVATE DRIVEWAY	
PS5	46.990m	46.430m	0.560	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PS6	46.811m	45.415m	1.397	WAVIN RANGE 450 PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PS7	46.221m	44.552m	1.668	1.20 m Ø PCC MH	D400	EXTERNAL - PRIVATE CAR PARK	500mm SUMP TO BE PROVIDED BELOW SPECIFIED INVERT LEVEL
PS8	46.422m	44.468m	1.954	1.20 m Ø PCC MH	D400	EXTERNAL - PRIVATE CAR PARK	500mm SUMP TO BE PROVIDED BELOW SPECIFIED INVERT LEVEL
PS9	46.646m	44.402m	2.243	1.20 m Ø PCC MH	B125	EXTERNAL - PRIVATE PATH	
PS10	47.041m	46.530m	0.511	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PS11	46.661m	44.318m	2.343	1.20 m Ø PCC MH	B125	EXTERNAL - PRIVATE PATH	
PS12	46.186m	45.586m	0.600	PPIC	B125	EXTERNAL - PRIVATE PATH	
PS13	46.237m	45.248m	0.989	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PS13A	46.137m	45.614m	0.523	PPIC	B125	EXTERNAL - PRIVATE PATH	
PS13B	46.114m	45.464m	0.650	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PS14	46.065m	45.387m	0.678	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PS15	46.135m	45.200m	0.935	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PS16	45.997m	45.102m	0.895	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PS17	45.949m	45.395m	0.554	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PS18	45.913m	44.826m	1.087	PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PS19	45.958m	44.550m	1.408	WAVIN RANGE 600 PPIC	B125	EXTERNAL - PRIVATE GARDEN	
PS20	45.406m	44.339m	1.067	WAVIN RANGE 600 PPIC	B125	EXTERNAL - PRIVATE PATH	
PS21	46.394m	44.292m	2.102	1.80 m Ø PCC MH	B125	EXTERNAL - PRIVATE GARDEN	FLOW CONTROL MANHOLE - REFER TO FLOW CONTROL MFR REQUIREMENTS FOR ADDITIONAL SUMP REQUIREMENTS. ALLOW FOR 750 SQ COVER

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SUTCLIFFE DRAINAGE PLAN REF:

- 33029-SUT-ZZ-XX-DR-C-6201 - C01

CONTRACTOR TO CHECK BOTH THIS DRAWING AND THE ABOVE LISTED DRAWING ARE BOTH THE CURRENT REVISION PRIOR TO USING THIS INFORMATION.

IF ANY MANHOLES INDICATED ON THE DRAINAGE PLAN ARE NOT LISTED ON THIS DRAWING, PLEASE CONTACT SUTCLIFFE

GENERAL NOTES

1. THIS DRAWING TO READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
2. ALL WORKS TO BE CARRIED OUT IN STRICT ACCORDANCE WITH THE ENGINEER'S SPECIFICATIONS, RELEVANT BRITISH STANDARDS AND WHERE APPLICABLE LOCAL AUTHORITIES REQUIREMENTS.

SEWERS FOR ADOPTION

3. ALL MAIN SEWERS TO BE CONSTRUCTED IN ACCORDANCE WITH THE 'DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL AND SURFACE WATER SEWERS OFFERED FOR ADOPTION' AND UNITED UTILITIES STANDARD DETAILS.
4. ALL MATERIALS TO BE MARKED WITH BSI KITE MARK WHERE APPLICABLE.
5. ALL DRAINAGE UNDER VERGES WITH LESS THAN 900MM OF COVER AND DRAINAGE UNDER THE HIGHWAY WITH LESS THAN 1200mm OF COVER WILL REQUIRE 150mm THICK CONCRETE BED AND SURROUND.
6. ALL PIPES TO HAVE CLASS 'S' GRANULAR SURROUND WITH BEDDING FACTOR OF 2.2 UNLESS STATED OTHERWISE ON THE LONGITUDINAL SECTIONS AND TO BE CLASS 2 SULPHATE RESISTANT. GRANULAR MATERIAL FOR SURROUND TO BE EITHER 10, 14 OR 20mm NOMINAL SINGLE SIZED.
7. STONE BACKFILL IS REQUIRED TO ALL SEWER TRENCHES UNDER VEHICULAR AREAS. AS DUG MATERIAL MAY BE USED ON OTHER AREAS SUBJECT TO THE WRITTEN APPROVAL OF THE DRAINAGE AUTHORITY.
8. ALL CONCRETE PRODUCTS MANUFACTURED OR CAST INSITU TO BE SULPHATE RESISTANT UNLESS PROVED OTHERWISE BY SITE INVESTIGATION OR SUBSEQUENT TESTING.
9. SEWERS MUST HAVE 5 METRES CLEARANCE FROM TREES AND HEDGES, WHERE IT IS NOT POSSIBLE TO ACHIEVE THIS CLEARANCE CONCRETE BED AND SURROUND IS REQUIRED.
10. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
11. MANHOLE COVERS MUST HAVE A MINIMUM CLEAR OPENING OF 600MM AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS. SOME MANHOLES MAY REQUIRE DOUBLE COVER ACCESS, REFER TO MANHOLE SCHEDULES TO CONFIRM SIZES.
12. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF UNITED UTILITIES BEFORE ANY SEWER WORKS ARE CARRIED OUT.
13. ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERB FACES AND SERVICE MARGINS
14. ANY LAND DRAIN OR WATERCOURSE ON SITE TO BE DIVERTED SO AS NOT TO PASS UNDER PROPOSED BUILDING.
15. DIVERSION TO BE INSPECTED ON SITE BY LOCAL AUTHORITY.
16. ALL GULLIES TO BE PROTECTED FROM SILT DURING THE CONSTRUCTION PROCESS WITH A LAYER OF HESSIAN SHEETING PLACED UNDER THE GULLY GRATING. THE HESSIAN SHALL BE CLEANED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD
17. ALL LIVE CONNECTIONS IDENTIFIED IN THE CCTV SURVEY, MUST BE RE-PIPED TO THE DIVERTED SEWER.
18. ALL ABANDONMENTS MUST BE WITNESSED BY A UU REPRESENTATIVE FOR THE STATUS OF THE PIPE TO BE CHANGED ON THE PUBLIC SEWER RECORDS. MINIMUM 72 HOURS NOTICE WILL BE PROVIDED.
19. METHOD OF SEWER ABANDONMENT SHALL BE BY GRUBBING UP AND REPLACING PIPE TRENCHES WITH APPROVED SUITABLY COMPACTED BACKFILL.
20. CONNECTIONS OF SEWERS TO BE ABANDONED TO THE LIVE SEWERS SHALL BE CAPPED TO THE APPROVAL OF THE UNITED UTILITIES REPRESENTATIVE.
21. PIPE MATERIALS INDICATED ON THIS DRAWING ARE AS REQUIRED BY UNITED UTILITIES. ALTERNATIVE MATERIALS TO THOSE LISTED ON THIS DRAWING MAY BE OFFERED TO UNITED UTILITIES FOR APPROVAL.

EXISTING SERVICE DIVERSIONS

22. PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO ENSURE THAT:
    A) NO PROPOSED DRAINAGE CLASHES WITH ANY OF THE EXISTING SERVICES.
    B) ANY NEW HIGHWAY WORKS DO NOT ADVERSELY AFFECT THE COVER TO EXISTING SERVICES BELOW THE RELEVANT MINIMUM COVER REQUIREMENTS.
23. THE CONTRACTOR IS TO ALLOW FOR THIS PROVISION WITHIN THE TENDER SUM.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ATTAINING ALL NECESSARY APPROVAL FOR ANY SERVICE DIVERSIONS REQUIRED TO FACILITATE THE PROPOSED WORKS.

Rev	Description	Date	By	Chkd
C01	CONSTRUCTION DRAWING	27.06.24	CR	SB

Drawing Status
CONSTRUCTION DRAWING

Sutcliffe
Structural & Civil Engineering
Geotechnical & Environmental Investigations
Building Surveying
Pre Planning Services
Liverpool Head Office: 0151 227 5155
Manchester Office: 0161 817 5160
North Wales Office: 01978 664 071
London Office: 020 8816 4320
www.sutcliffe.co.uk

Client
WYTHENSHAW COMMUNITY HOUSING

Project
THE ENTERPRISE CENTRE
BENCHILL ROAD
MANCHESTER

Drawing Title
MANHOLE TABLE

Date	Drawn By	Checked By
05.06.24	CR	SB

Scale at A1	Project Number
NA	33029

Sheet Number	Revision
33029-SUT-ZZ-XX-DR-C-6202	C01