

UU ASSET - COMBINED
SEWER AS PER UU
ASSET PLAN

VIDEO (2407101556a FWMH 1.0 to E01 to road) AND REPORT
ATTACHED. NO ISSUES WITH CONNECTION.

FYI - LOCATION OF
NEW CONNECTION
FOR NEW BUILDING
FOR SW.

FYI - LOCATION OF
NEW CONNECTION
FOR NEW BUILDING
FOR FOUL AND SW.

UU ASSET - COMBINED
SEWER - 1500mm
NOTED AS PER UU
ASSET PLAN

VIDEO (2412101128a) AND REPORT ATTACHED. CCTV IN
DECEMBER 2024. NO ISSUES WITH CONNECTION.

Viewed on site on
28.11.24 - hydro brake.

Viewed on site on 28.11.24 -
interceptor tank.

Survey undertaken from
final manhole after
interceptor tank out to
Nell Lane.

SCHEDULE OF CAR PARK SURFACE WATER DRAINAGE STRUCTURES

STRUCTURE	WH DIAMETER	USGL (m)	USL (m)	TYPE	COVER LENGTH (m)	SLOPE (1:1)	PIPE DIAM		
SWALE	500	32.045	31.545	SWALE	N/A	45	320	500 CH	
HEAD WALL	500	31.905	31.405	TBC	N/A	2	150		
SW25	1500	32.100	29.738	PCP	D400	37	200	CLAYWARE CLASS S	SW25 32.100 30.488
SW27	1500	32.425	30.550	PCP	D400	60	200	PLASTIC CLASS S	SW24 32.100 29.563
SW28	1500	32.100	30.250	PCP	D400	9	150	PLASTIC CLASS S	SW26 32.100 30.250
SW24	1800	32.100	29.553	PCP	D400	5	150	CLAYWARE CLASS S	SW24 32.100 30.180
SW1	EXISTING	32.270	29.420					CLAYWARE CLASS S	SW21 32.271 29.420

DETENTION TANK - 3000 STUB PIPE REQUIRED IN SW25	
THROTTLE PIPE	
INVERT LEVELS INCLUDE 100mm FOR SEPARATOR FLOW CONTROL CHAMBER (HYDRO BRAKE)	
EXISTING MANHOLE	

NOTE: ALL GROUND LEVELS, SWALE DEPTHS AND SWALE INVERT LEVELS
ARE ASSUMED AND ARE TO BE CONFIRMED PRIOR TO CONSTRUCTION

KEY:

US = UPSTREAM

DS = DOWNSTREAM

GL = FINISHED GROUND LEVEL

IL = INVERT LEVEL

WH = MANHOLE

KEY LINES AND SYMBOLS

- DENOTES EXISTING SURFACE WATER SEWER
- - - DENOTES PROPOSED SWALE
- - - DENOTES PROPOSED FOUL DRAIN
- DENOTES PROPOSED DETENTION TANK
- DENOTES PROPOSED SURFACE DRAIN
- DENOTES EXISTING MANHOLE
- DENOTES SURFACE WATER MANHOLE
- DENOTES PUMP CHAMBER
- DENOTES PEDESTRIAN GULLY
- DENOTES ROAD GULLY
- DENOTES INTERNAL MANHOLE
- DENOTES RAMP BACKDROP
- DENOTES VERTICAL BACKDROP
- DENOTES PROPOSED HEADWALL
- DENOTES HYDRO-BRAKE FLOW CONTROL IN SW23 & SW24 (FLOW CONTROL INSTALLED IN OUTGOING PIPE)

- DENOTES OVERLAND FLOW PATH
- DENOTES PROPOSED GULLY
- DENOTES PROPOSED PROPRIETARY SEPARATOR

KEY TO ANNOTATION

- ED BACKDROP
- RWP RAINWATER PIPE
- RE ROODING EYE
- FWMH FOUL MANHOLE
- SWMH SURFACE WATER MANHOLE
- WVPEX WASTE VENT PIPE
- SWPEX SOIL VENT PIPE
- HB HYDRO-BRAKE
- SP STUB PIPE

NOTES

- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY 5TH EDITION AND ALL RELATED DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SETTING OUT, FINAL COVER LEVELS AND THE SETTING OF FRAMES SHALL SUIT THE SURFACE FINISHES.
- BELOW GROUND DRAINAGE: UNDERGROUND DRAIN PIPES AND FITTINGS FOR FOUL AND SURFACE WATER DRAINAGE SHALL BE AS FOLLOWS:
 - (a) UP TO AND INCLUDING 300mm DIAMETER.
 - (b) 375mm DIAMETER AND ABOVE.
- FLEXIBLY JOINTED CLASS M CONCRETE TO BS 5911 HEAVYDUTY: AS PERFOX SYSTEM OR SIMILAR APPROVED.
- MINIMUM BEDDING CLASS X SHALL BE USED THROUGHOUT UNLESS SHOWN OTHERWISE.
- DRAINAGE LANE BENCH MARKS AND CAR PARKS WITH LESS THAN 1200mm OF COVER SHALL BE ENCASED IN 150mm THICK CLASS B CONCRETE FOR PROTECTION FOR MOVEMENT AT JOINTS. ALL OTHER DRAINAGE WITH LESS THAN 600mm COVER SHALL BE SIMILARLY TREATED.
- DRAINS PASSING THROUGH WALLS AND FOUNDATIONS SHALL BE SLEAVED OR CAST IN PLACE IN A FLEXIBLE JOINT SHALL BE PROVIDED WITHIN 150mm OF THE FACE OF THE WALL ON EITHER SIDE WITH A FURTHER FLEXIBLE JOINT WITHIN 600mm OF THE FIRST. WHERE DRAINS ARE LAID BELOW CONCRETE FLOOR SLABS, THE BEDDING MATERIAL SHALL EXTEND TO THE UNDERSIDE OF THE SLAB.
- ALL GULLIES, REST BENCHES, ROODING EYES, ETC SHALL BE SURROUNDED WITH MASS CONCRETE.
- BROCK MANHOLES SHALL BE CONSTRUCTED IN 225mm THICK CLASS B CONCRETE BRICKWORK IN ENGLISH BOND WITH 1:3 CEMENT MORTAR JOINTS OF P.C. CONCRETE RINGS TO BS 5911.
- THE DRAINAGE SHALL BE INSTALLED AND TESTED STRICTLY IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS, BS EN 752, BS 8000, LOCAL AUTHORITY BYELAWS AND THE BUILDING REGULATIONS PART 4.
- ALL DISUSED DRAINS TO BE GROUTED UP OR REMOVED.
- UNLESS OTHERWISE STATED ALL DRAINS SHALL BE LAD TO A MINIMUM FALL OF 1:40
- ALL BRANCHES TO MAIN DRAINS TO BE AT 1:35
- LONG RADIUS BENDS TO BE USED THROUGHOUT, ALL TAPERS AND REDUCERS ALONG THE HORIZONTAL PLANE TO HAVE LEVEL SLOTTES.
- DRAIN PIPES WITHOUT SIZE INDICATED SHALL BE 400.
- SEWER CONNECTIONS SHALL BE TO THE SATISFACTION OF THE LOCAL AUTHORITY.
- HYDRO-DRAIN FLOW CONTROL DETAILS:
 - SW23 - 20 L/s @ 1.4m HEAD
 - SW24 - 30 L/s @ 1.5m HEADINSTALLATION TO BE AS MANUFACTURERS INSTRUCTIONS.
- FOR SCALE DETAILS REFER TO DRAWING B17-930-5434 AND 5435 (AS DRAWINGS)
- THE BYPASS SEPARATOR SHALL BE A SPEL STORMSEPTOR MODEL C1 213 CLASS 1 WITH INTEGRAL SILENT CHAMBER, OR SIMILAR APPROVED. SPEL PRODUCTS, LANCASTER ROAD, SHREWSBURY, SY1 3AG.
- STUB PIPE IN SW25 TO BE 300m INVERT LEVEL SET AT 30.338m LENGTH 600mm AND GRADE 1:150. END TO BE CAPPED WITH PROPRIETARY STOPPER.
- FOR PIPE BEDDING AND TRENCH REINSTATEMENT DETAILS REFER TO DRAWINGS B17-930-5422 AND 5423 (AS DRAWINGS)
- FOR MANHOLE DETAILS REFER TO DRAWINGS B17-930-5426, 5427, 5428 AND 5430 (AS DRAWINGS)
- FOR DETAILS OF GULLIES AND CHANNELS REFER TO DRAWINGS B17-930-5433 (AS DRAWING) AND 5442 (AS DRAWING)
- FOR MANHOLE SCHEDULE REFER TO DRAWING B17-930-5443
- 400 KERBSIDE 450 CAPACITY SYSTEM 1500 CONNECTIONS TO BE EVERY 20m WITH 40480 ROODING ACCESS UNIT
- HEADWALL DETAILS TO BE CONFIRMED

Mark	Date	Details	By	Check
H	24/05/2025	FINAL ISSUE	WAC	PCM
G	25/07/24	CAR PARK GULLIES REPOSITIONED	MW	PCM
F	18/05/24	ISSUED FOR CONSTRUCTION	JC	JRU
E	28/01/24	CAR PARK DRAINAGE AMENDED AS CLOUDED	JRU	JRU
D	05/11/23	SURFACE WATER DRAINAGE AMENDED	MW	JRU
C	01/10/23	FOUL WATER DRAINAGE REDRAWN ISSUED FOR ACCEPTANCE	BR	PCM
B	30/07/23	STORM WATER DRAINAGE ADDED	GC	PCM
A	25/07/23	PRELIMINARY ISSUE	WAC	PCM

REVISIONS



Employer:
South Manchester NHS Primary Care Trust

Principal Supply Chain Partner



Project Title:
WITHINGTON DTC.

Key Plan:

Scale: 1:250 for the Original Drawing Size of: A0

Drawn By: WAC Check By: PCM Power By: PCM Date: 25/07/23

CONSTRUCTION

Drawing Originator:

ARUP

Drawing Title:
FOUL AND SURFACE WATER SEWER LAYOUT

Scale: 1:250 for the Original Drawing Size of: A0

Drawn By: WAC Check By: PCM Power By: PCM Date: 25/07/23

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