SURFACE WATER MANHOLE SCHEDULE

Structure Name	Structure Details
SWMH01 A15 RECESSED	COVER = 31.900 INVERT = 30.705 RWP07 INV IN = 30.755 RWP10 INV IN = 30.755 RWP08 INV IN = 30.755 SW1.000 INV OUT = 30.705
SWMH02 A15 RECESSED	COVER = 31.900 INVERT = 30.650 SW1.003 INV IN = 30.650 SW1.000 INV IN = 30.650 RWP05 INV IN = 30.700 SW1.002 INV IN = 30.650 RWP09 INV IN = 30.700 SW1.001 INV OUT = 30.650
SWMH04 A15 RECESSED	COVER = 31.900 INVERT = 30.692 LDO01 INV IN = 30.742 RWP01 INV IN = 30.742 SW1.003 INV OUT = 30.692
SWMH03 A15 RECESSED	COVER = 31.900 INVERT = 30.712 PO02 INV IN = 30.762 RWP02 INV IN = 30.762 RWP03 INV IN = 30.762 PO01 INV IN = 30.762 SW1.002 INV OUT = 30.712
SWMH05 D400 DUCTILE IRON	COVER = 31.440 INVERT = 29.547 SW1.001 INV IN = 30.606 SW1.004 INV OUT = 29.547

FOUL WATER MANHOLE SCHEDULE

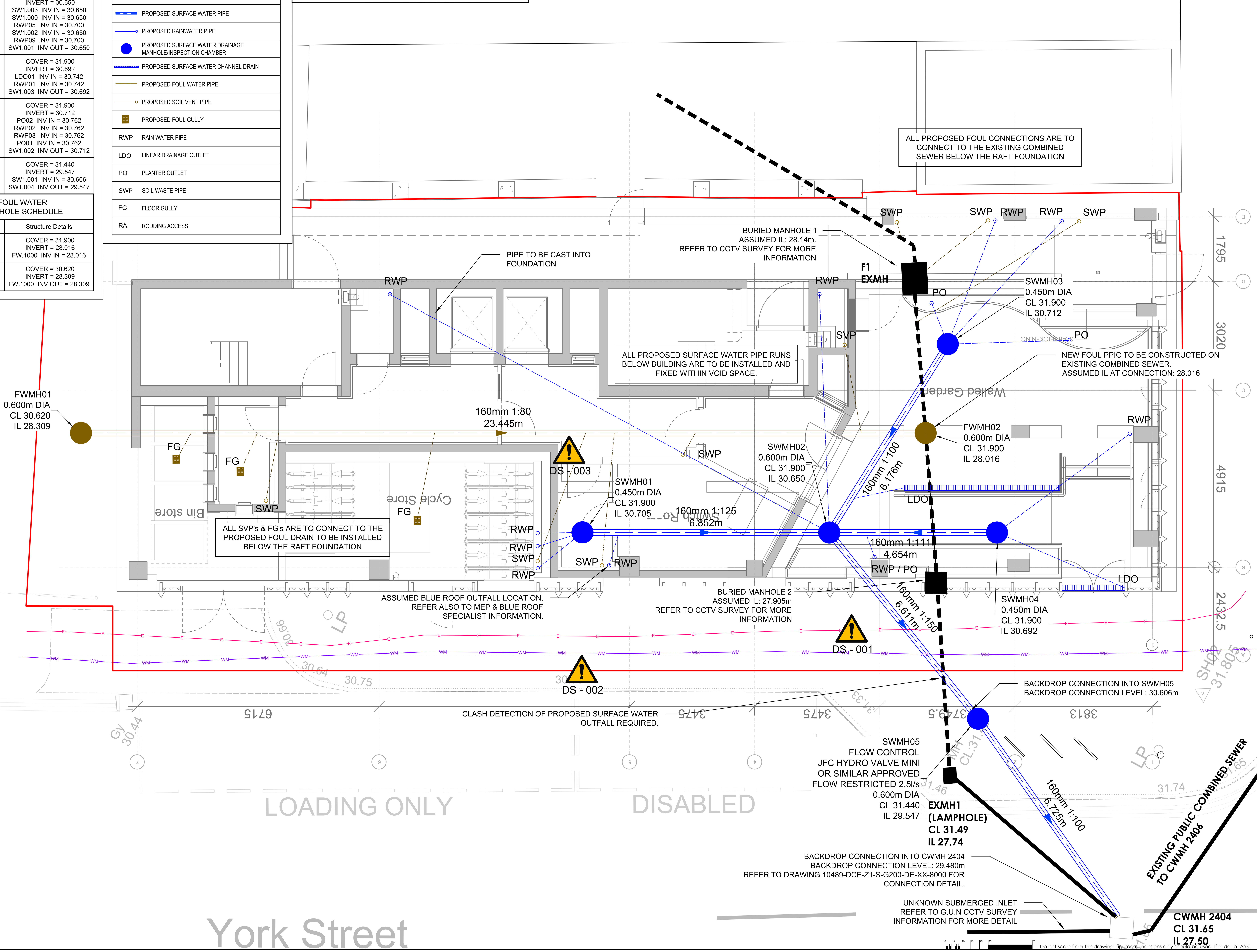
Structure Name	Structure Details
FWMH02 A15 RECESSED	COVER = 31.900 INVERT = 28.016 FW.1000 INV IN = 28.016
FWMH01 D400 DUCTILE IRON	COVER = 30.620 INVERT = 28.309 FW.1000 INV OUT = 28.309

LEGEND

(red line)	RED LINE BOUNDARY
(heavy dashed line)	EXISTING COMBINED SEWER
(black square)	EXISTING MANHOLE
—E—	EXISTING UTILITY CABLE
—WM—	EXISTING UU WATER MAIN (FROM GPR)
(blue double line)	PROPOSED SURFACE WATER PIPE
(blue line)	PROPOSED RAINWATER PIPE
(blue circle)	PROPOSED SURFACE WATER DRAINAGE MANHOLE/INSPECTION CHAMBER
(blue hatched line)	PROPOSED SURFACE WATER CHANNEL DRAIN
(brown double line)	PROPOSED FOUL WATER PIPE
(brown line)	PROPOSED SOIL VENT PIPE
(brown square)	PROPOSED FOUL GULLY
RWP	RAIN WATER PIPE
LDO	LINEAR DRAINAGE OUTLET
PO	PLANTER OUTLET
SWP	SOIL WASTE PIPE
FG	FLOOR GULLY
RA	RODDING ACCESS

HEALTH & SAFETY SCHEDULE

REFERNCE	DESCRIPTION
DS - 001	CLASH DETECTION WITH BURIED SERVICES REQUIRED. DEPTH OF EXISTING SERVICES TO BE SURVEYED ON SITE.
DS - 002	BUILDING & DRAINAGE ASSETS WITH 3m OF UNITED UTILITIES WATER MAIN. UU ARE AWARE AND HAVE PROVIDED GUIDANCE.
DS - 003	ASSUMED NEW FOUL DRAIN REQUIRED AS EXISTING HAS NOT BEEN CLEARLY IDENTIFIED AS PART OF CURRENT SURVEY WORKS



Notes:

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED. WHERE THERE APPEARS TO BE A CONFLICT BETWEEN DIMENSIONS OR WHERE DIMENSIONS CANNOT BE DETERMINED FROM THE DRAWINGS, CONSULT THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS AND SPECIFICATIONS.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
   - 3.1. TYPICAL DRAINAGE DETAILS
   - 3.2. MANHOLE SCHEDULE
   - 3.3. PAVEMENT DETAILS DRAWING
   - 3.4. CIVIL ENGINEERING TECHNICAL SPECIFICATION.
4. THIS DRAWING IS BASED ON:
   - 4.1. TOPOGRAPHICAL SURVEY PROVIDED BY POINT 2 SURVEYORS
   - 4.2. UTILITY SURVEY PROVIDED BY LAYER SURVEYS LTD
   - 4.3. UNITED UTILITIES SEWER RECORDS
   - 4.4. CCTV SURVEY PROVIDED BY SURVEY HUB
   - 4.5. RWP & SVP POSITIONS BY FUTURESERV
5. THE CONTRACTOR SHALL:
   - 5.1. VERIFY EXISTING UTILITIES BEFORE STARTING WORKS.
   - 5.2. VERIFY THE DIMENSIONS SHOWN ON THE DRAWINGS BEFORE FABRICATION, SETTING OUT OR EXCAVATION OF THE WORK, AND SHALL BE HELD RESPONSIBLE FOR ANY ERRORS OR INACCURACIES RESULTING FROM FAILURE TO DO SO.
   - 5.3. CHECK AND VERIFY THE LOCATION AND LEVELS ALL EXISTING DRAINS, SEWERS, INSPECTION CHAMBERS AND MANHOLES AGAINST DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
4. THE SURFACE WATER DRAINAGE HAS BEEN DESIGNED FOR NO FLOODING FOR A 1 IN 100 YEAR PLUS 45% ALLOWANCE FOR CLIMATE CHANGE. THE SURFACE WATER NETWORK HAS BEEN DESIGNED TO RESTRICT THE DISCHARGE RATE FROM THE SITE TO 2.5 l/s FOR THE 1:100 RAINFALL EVENT PLUS 45% CLIMATE CHANGE. THE FOUL WATER DRAINAGE HAS BEEN DESIGNED BASED ON A PEAK FOUL WATER RATE CALCULATED AT 12.79 l/s BASED ON RESIDENTIAL UNITS.
5. CONNECTIONS TO THE PUBLIC SEWER ARE SUBJECT TO SECTION 106 OF THE WATER INDUSTRY ACT 1991 APPROVAL. NO WORKS AFFECTING THE PUBLIC SEWERAGE SYSTEM MAY BE CARRIED OUT WITHOUT UU'S PRIOR WRITTEN CONSENT
6. THE PROPOSED BUILDING OUTLINES SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. REFER TO ARCHITECTS PLANS FOR PRECISE LOCATION SETTING OUT INFORMATION AND DETAILS. EXTERNAL MANHOLE COVER LEVELS TO BE CONFIRMED BY LANDSCAPE ARCHITECT.
7. DRAINAGE NOT CAST INTO CONCRETE TO BE STRUCTURED WALL PVC-u. ALL OTHER DRAINAGE TO BE CAST IRON.
8. FOR SETTING OUT DIMENSIONS OF SWP'S, RWP'S, FLOOR GULLY & OTHER DRAINAGE 'POP UP' LOCATIONS, REFER TO FUTURESERV DRAWINGS.
9. ALL SURFACE WATEER DROP POINTS TAKEN BELOW UNDERSIDE OF SLAB WITHIN VOIDED AREA UNLESS OTHERWISE NOTED. FOUL DROP POINTS ARE TO CONNECT BELOW RAFT FOUNDATION.
10. ALL DRAINAGE PIPEWORK SHALL BE LAID SOFFIT TO SOFFIT UNLESS OTHERWISE STATED. ALL STACK CONNECTIONS TO BELOW THE SLAB AND RAINWATER PIPES TO HAVE RODDABLE ACCESS ABOVE SLAB. ALL STACK CONNECTIONS TO BELOW THE SLAB AND RAINWATER PIPES TO HAVE RODDABLE ACCESS ABOVE GROUND.
11. ALL UNDERSLAB DRAINAGE SHALL BE CLEAR OF FOUNDATIONS UNLESS SHOWN OTHERWISE. USE OF SHORT/ LONG RADIUS BENDS IS ACCEPTABLE PROVIDED THEY ARE KEPT TO A MINIMUM AND USED WHERE UNAVOIDABLE.
12. ALL UNDERSLAB DRAINAGE FOR DEVELOPMENT SHALL BE LAID AT GRADIENTS OF 1:40 MIN FOR FOUL PIPEWORK AND 1:80 MIN FOR SURFACE WATER UNLESS NOTED OTHERWISE. ALL UNDERSLAB DRAINAGE SHALL BE CLEAR OF FOUNDATIONS UNLESS SHOWN OTHERWISE.
13. CONTRACTOR TO PROVIDE ADEQUATE PROTECTION TO SHALLOW PIPES. PIPE PROTECTION DETAIL TO BE PROVIDED FOR PIPES WITH COVER LESS THAN 0.9m ABOVE THE CROWN OF THE PIPE FOR ROADS AND 0.6m FOR SOFT AND PEDESTRIAN AREAS AND UNDER ALL FOUNDATIONS AND WHERE PIPES LAID WITHIN 1m OF FOUNDATIONS.
14. CONCRETE ENCASEMENT OF THE PIPEWORK SHALL BE REQUIRED WHERE THE VERTICAL CLEARANCE BETWEEN TWO PIPES CROSSING IS LESS THAN 300mm.
15. ROCKER PIPES ARE TO BE PROVIDED AT ALL CONCRETE CASED INTERFACES.
16. ALL PROPRIETARY PRODUCTS / SYSTEMS TO BE VERIFIED BY THE MANUFACTURER AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION / DETAILS.
17. BAUDER BLUE ROOF SPECIALIST & FUTURESERV ARE RESPONSIBLE FOR ALL ABOVE GROUND DRAINAGE PIPES AND BLUE ROOF.

REV.	DATE	DESCRIPTION	DRW	APR
P05	25/09/25	S106 APPLICATION	EW	DEP
P04	25/07/25	S4-FOURTH ISSUE	EW	DEP
P03	27/06/25	S4-THIRD ISSUE	EW	DEP
P02	09/06/25	S4-SECOND ISSUE	SL	DEP
P01	28/05/25	STAGE 4-FIRST ISSUE	SL	MM
T01	31/03/25	TENDER ISSUE	SL	MM

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CLIENT: JADEBRICKS

PROJECT TITLE: CHARLES STREET

DRAWING TITLE: PROPOSED DRAINAGE LAYOUT GENERAL ARRANGEMENT

ISO 19650 NUMBER REFERENCE	PAPER SIZE	CLASSIFCATION
10489-Z1-DCE-D-S-XX-0100	A1	PM_40_40_34

DRAWN BY	CHECKED BY	APPROVED BY	DATE	SCALE
EW	DEP	DEP	27/06/25	1:50

INTERNAL NO.	STATUS	STATUS DESCRIPTION	REVISION
1983	S4	STAGE 4 FOR APPROVAL	P05

DRAWING NUMBER: 10489-DCE-Z1-S-G200-PL-XX-0100