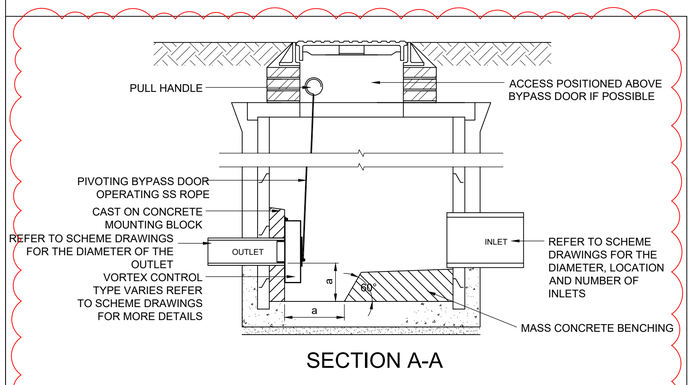
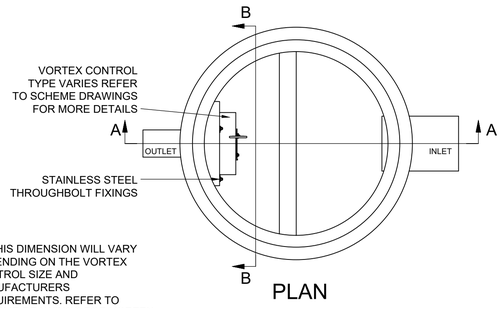
PROP SW £ FW NETWORK 1 MANHOLE SCHEDULE

NAME	LOCATION	COVER LEVEL INVERT LEVEL SUMP DEPTH	DEPTH	TYPE SIZE	INCOMING PIPE DIA	INCOMING PIPE IL	OUTGOING PIPE DIA	OUTGOING PIPE IL	COVER SIZE
BS1	E= 384744.2716 N= 399237.8515	46.000 43.980 0.000	2.020	Type B 1500 mm	150		450	43.980	600 x 600
BS2	E= 384762.1361 N= 399250.4352	48.500 43.920 0.000	3.000	Type B 1500 mm	450	43.920			600 x 600
BS3	E= 384746.1804 N= 399273.4731	48.310 43.840 0.000	3.000	Type B 1500 mm	450 150	43.840 44.140	150	43.840	600 x 600
BF1	E= 384750.0287 N= 399243.2013	46.000 44.650 0.000	1.350	Type D Circular 450 mm			150	44.650	300 x 300
BF2	E= 384760.7718 N= 399250.6745	47.825 44.374 0.000	3.000	Type D Circular 450 mm	150	44.374	150	45.374	300 x 300
BF3	E= 384735.3015 N= 399287.2411	46.030 44.839 0.000	1.191	Type D Circular 450 mm	150	43.839	150	43.839	300 x 300
MHC8	E= 384731.0743 N= 399298.2265	46.040 43.550 0.000	2.490	Type B 1200 mm	150 150	43.550 43.550	EX	43.240	600 x 600



SECTION A-A

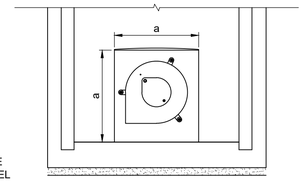


PLAN

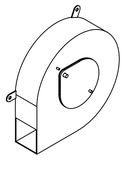
NOTES

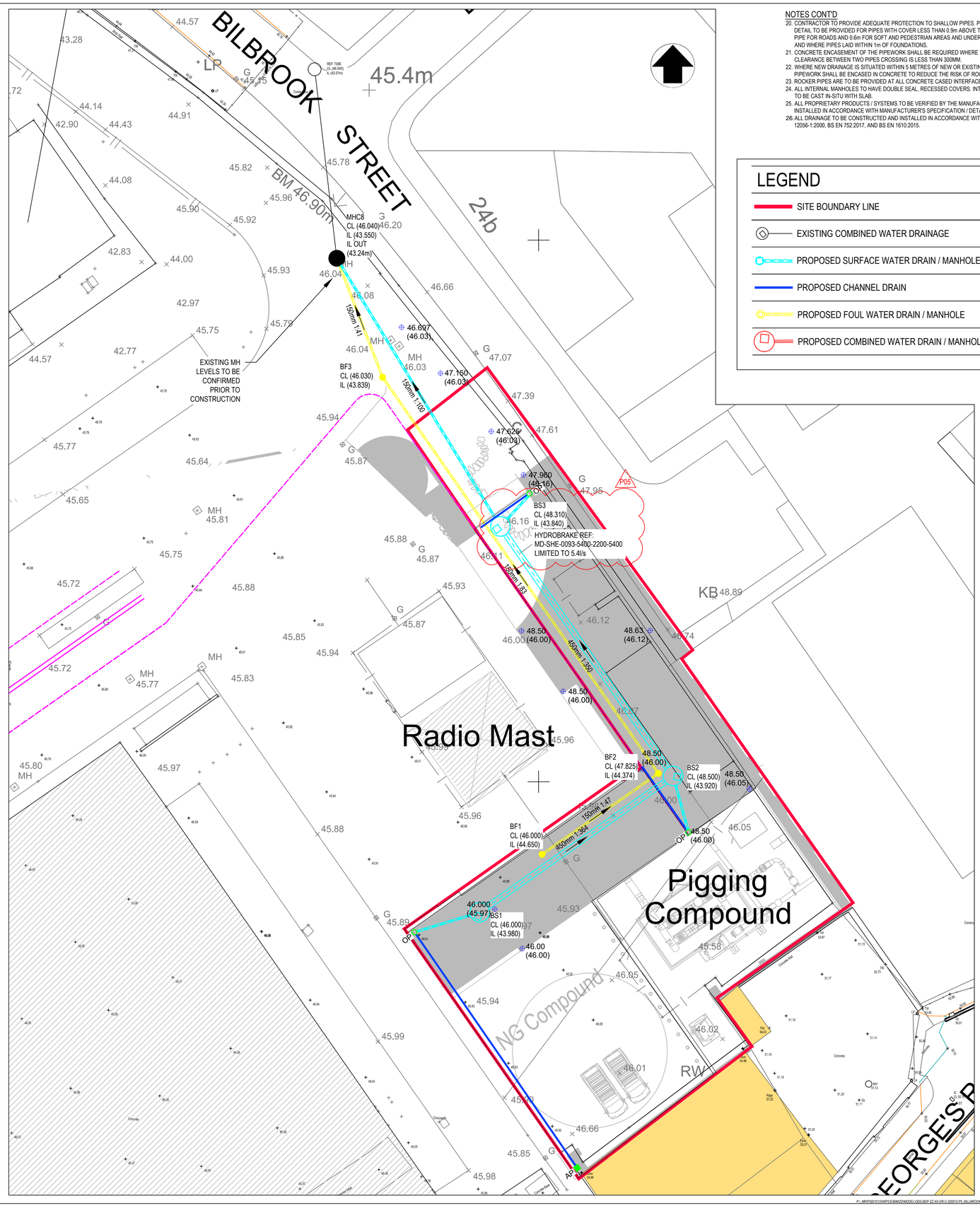
1. a - THIS DIMENSION WILL VARY DEPENDING ON THE VORTEX CONTROL SIZE AND MANUFACTURERS REQUIREMENTS. REFER TO SCHEME DRAWINGS FOR VORTEX CONTROL SIZE AND REFER TO CHOSEN MANFACTURERS PRODUCTS TO CONFIRM THE MANHOLE AND BENCHING REQUIREMENTS PRIOR TO CONSTRUCTION

2. HEAD FLOW CHARACTERISTICS ARE TO BE SUPPLIED TO THE DESIGN ENGINEER FOR THE CHOSEN VORTEX CONTROL, PRIOR TO PURCHASE AND CONSTRUCTION. THIS IS TO CONFIRM ITS FLOW CHARACTERISTIS MATCH THOSE USED IN THE CALCULATED MODEL FOR THE SCHEME FOR THE DEVELOPMENT



SECTION B-B
(VIEW ON MOUNTING BLOCK)





P:\...MRP3001012\WIP\CE\BIM3D\MODEL\GDS-BDP-ZZ-XX-DR-C-520012-P5_BILLBROOK STREET DRAINAGE STRATEGY.DWG

NOTES CONT'D

20. 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.
21. CONCRETE ENCASEMENT OF THE PIPEWORK SHALL BE REQUIRED WHERE THE VERTICAL CLEARANCE BETWEEN TWO PIPES CROSSING IS LESS THAN 300MM.
22. WHERE NEW DRAINAGE IS SITUATED WITHIN 5 METRES OF NEW OR EXISTING TREES THE PIPEWORK SHALL BE ENCASED IN CONCRETE TO REDUCE THE RISK OF ROOT INGRESS.
23. ROCKER PIPES ARE TO BE PROVIDED AT ALL CONCRETE CASED INTERFACES.
24. ALL INTERNAL MANHOLES TO HAVE DOUBLE SEAL, RECESSED COVERS. INTERNAL MANHOLES TO BE CAST IN-SITU WITH SLAB.
25. ALL PROPRIETARY PRODUCTS / SYSTEMS TO BE VERIFIED BY THE MANUFACTURER AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION / DETAILS.
26. ALL DRAINAGE TO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH BS EN 12056-1:2000, BS EN 752:2017, AND BS EN 1610:2015.

LEGEND

- SITE BOUNDARY LINE
- EXISTING COMBINED WATER DRAINAGE
- PROPOSED SURFACE WATER DRAIN / MANHOLE
- PROPOSED CHANNEL DRAIN
- PROPOSED FOUL WATER DRAIN / MANHOLE
- PROPOSED COMBINED WATER DRAIN / MANHOLE

BUILDING DESIGN PARTNERSHIP SHALL HAVE NO RESPONSIBILITY FOR ANY USE MADE OF THIS DOCUMENT OTHER THAN FOR THAT WHICH IT WAS PREPARED AND ISSUED.

ALL DIMENSIONS SHOULD BE CHECKED ON SITE.

DO NOT SCALE FROM THIS DRAWING.

ANY DRAWING ERRORS OR DIVERGENCES SHOULD BE BROUGHT TO THE ATTENTION OF BUILDING DESIGN PARTNERSHIP AT THE ADDRESS SHOWN BELOW.

NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DETAILS, DRAWINGS AND SPECIFICATIONS.
3. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ARCHITECT AND/OR ENGINEER IMMEDIATELY SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO THE COMMENCEMENT OF WORK.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
   4.1 TYPICAL DRAINAGE DETAILS
5. ALL BUILDING DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BS EN:752 DRAINAGE AND SEWER SYSTEMS OUTSIDE BUILDINGS, THE CURRENT BUILDING REGULATIONS, THE LOCAL AUTHORITY BUILDING CONTROL SPECIFICATIONS AND REQUIREMENTS AND THE CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY 7TH EDITION, PUBLISHED BY THE UK WATER INDUSTRY RESEARCH LTD. (CESWI).
6. EXISTING DRAINAGE , MANHOLE POSITIONS & LEVELS ARE BASED ON UNITED UTILITIES SEWER RECORDS AND A CCTV SURVEY UNDERTAKEN BY GUN IN JUNE 2020.
7. TOPOGRAPHICAL INFORMATION PROVIDED WITHIN THIS DRAWING IS AN INDICATION OF EXISTING LEVELS ACROSS SITE.
8. BEFORE STARTING ANY WORKS, CONTRACTOR TO CHECK INVERT LEVELS AND POSITIONS OF EXISTING DRAINS, SEWERS, INSPECTION CHAMBERS AND MANHOLES AGAINST INFORMATION SHOWN ON THIS DRAWING, ENGINEER TO BE INFORMED IF FOUND DIFFERENT TO NOTED.
9. ALL DRAIN POINTS AND MANHOLE LOCATIONS / INVERT LEVELS / DIMENSIONS ARE TO BE CONFIRMED, SUBJECT TO DESIGN DEVELOPMENT.
10. IT IS NOT ANTICIPATED THAT ANY OF THE NEW DRAINAGE NETWORK WILL BE OFFERED FOR ADOPTION TO UNITED UTILITIES. ANY DRAINAGE BEING OFFERED FOR ADOPTION WOULD REQUIRE SUBMISSION OF A SECTION 104 APPLICATION AND IS SUBJECT TO APPROVAL FROM UNITED UTILITIES.
11. LOCATION OF RAINWATER DOWNPIPES AND SVPS HAVE NOT BEEN CONFIRMED. FOUL WATER AND SURFACE WATER CONNECTIONS FROM THE BUILDING ARE SHOWN FOR INFORMATION ONLY TO INDICATE THE DIRECTION OF FLOW TO THE MAIN DRAINAGE RUNS.
12. DESIGN SUBJECT TO CHANGE FOLLOWING APPROVAL PROCESS WITH LOCAL AUTHORITIES AND WATER COMPANY.
13. THE CONTRACTOR SHALL:
    13.1. VERIFY EXISTING UTILITIES BEFORE STARTING WORKS.
    13.2. 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.
    13.3. CHECK AND VERIFY THE LOCATION AND LEVELS ALL EXISTING DRAINS, SEWERS, INSPECTION CHAMBERS AND MANHOLES AGAINST DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
14. THE PROPOSED BUILDING OUTLINE SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. REFER TO ARCHITECTS PLANS FOR PRECISE LOCATION SETTING OUT INFORMATION AND DETAILS.
15. FOR SETTING OUT DIMENSIONS OF SS'S, SVP'S, RWP'S, FLOOR GULLY & OTHER DRAINAGE 'POP UP' LOCATIONS, REFER TO ARCHITECTS OR MECHANICAL & ELECTRICAL ENGINEERS DRAWINGS.
16. ALL UNDERSLAB DRAINAGE 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. USE OF SHORT/ LONG RADIUS BENDS IS ACCEPTABLE PROVIDED THEY ARE KEPT TO A MINIMUM AND USED WHERE UNAVOIDABLE.

P05	FLOW CONTROL DETAIL / REF ADDED	AS	DN	20/01/26
P04	FLOW CONTROL REVISED	EOD	DN	09/12/25
P03	LEVELS ADDED	AS	DN	25/11/25
P02	UPDATED TO PROVIDE STORAGE	AS	DN	17/09/25
P01	FOR INFORMATION	AS	DN	05/03/25

REVISION DESCRIPTION DRAWN CHECKED DATE

KEY PLAN



CLIENT

MCR PROPERTY GROUP

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PROJECT TITLE

GOULD STREET DEVELOPMENT

BDP JOB NUMBER: P3001012
RECORD CLASSIFICATION: COMMERCIAL IN CONFIDENCE

DRAWING TITLE

THE GAS WORKS - GAS COMPOUND
ENABLING WORKS BILBROOK
STREET SURFACE WATER DRAINAGE

SCALE: 1:100 @ A1

DATE: 05/03/25

DRAWING No.: GDS-BDP-ZZ-XX-DR-C-520012

REVISION: P05