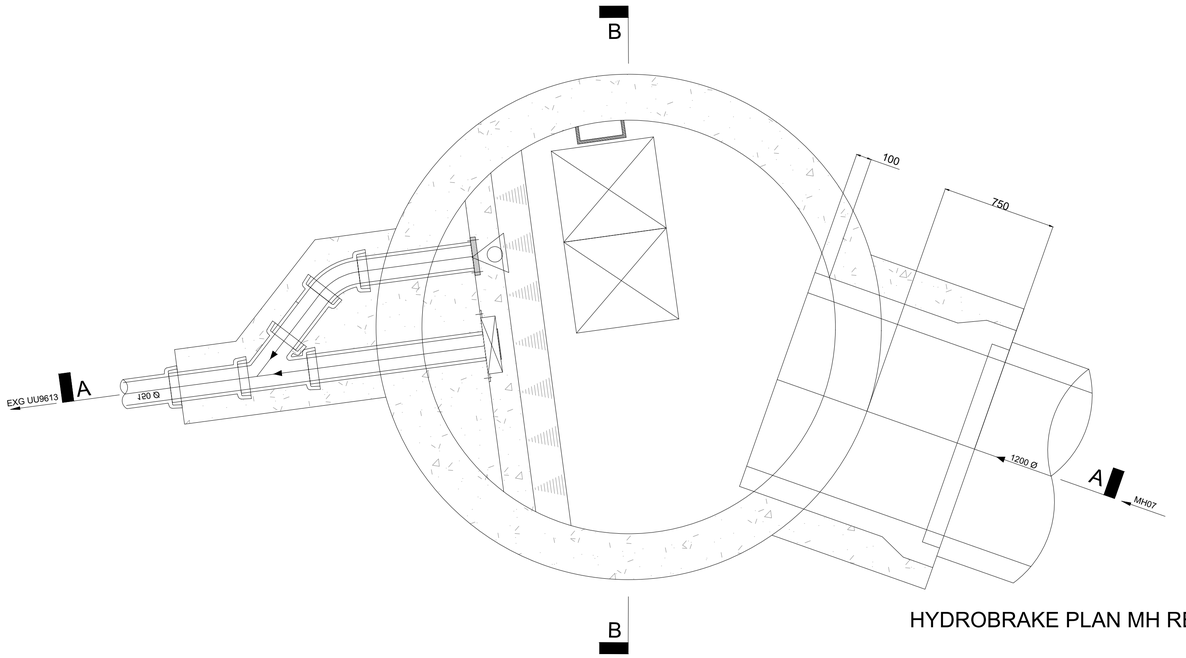
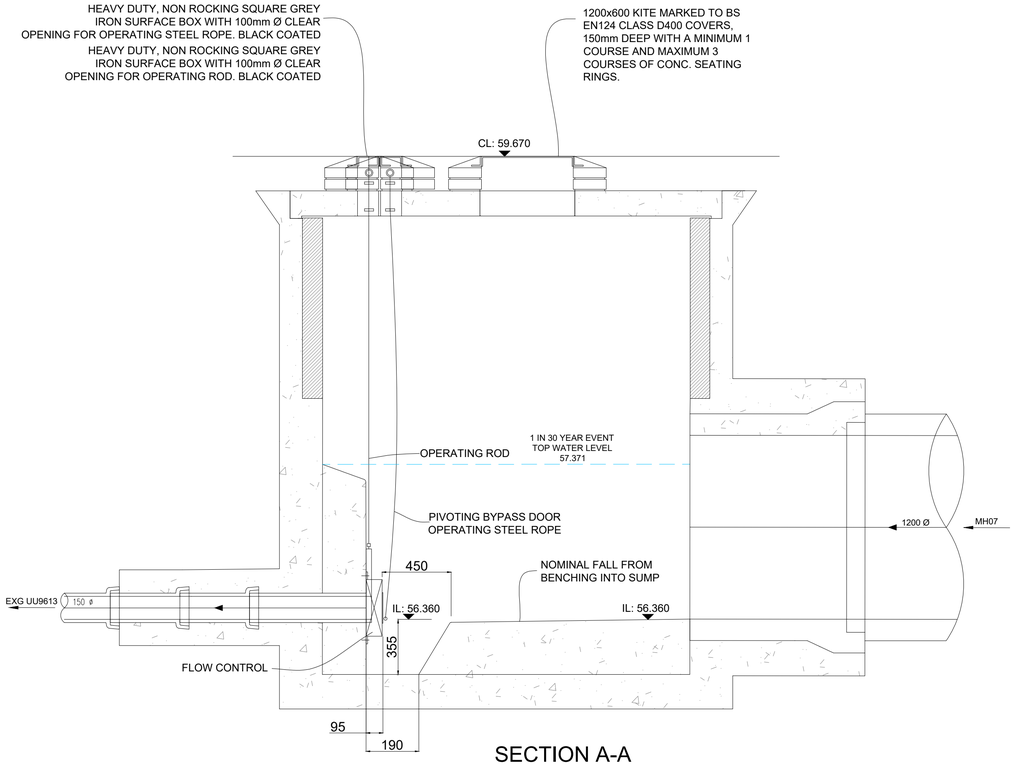
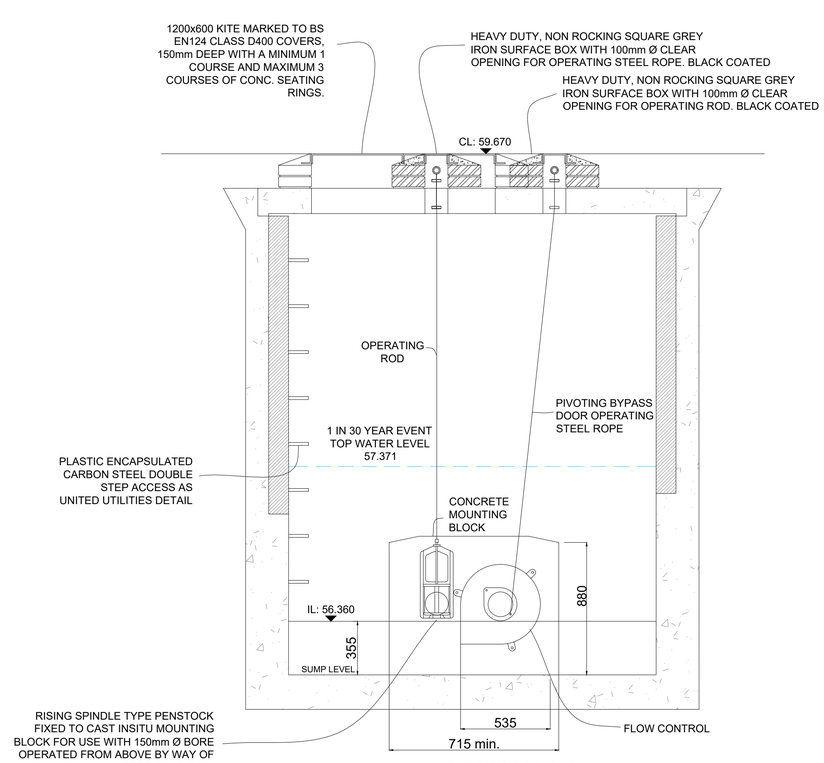


HYDROBRAKE PLAN MH REF MH08

HYDROBRAKE DETAILS	
MANHOLE REFERENCE	MH08
MANHOLE SIZE	2700mm DIA.
HYDROBRAKE TYPE	OPTIMUM
HYDROBRAKE REFERENCE	SHE-0088-5000-2400-5000
DISCHARGE RATE	5.0 l/sec
DESIGN HEAD	2.4m
ORIFICE SIZE (mm)	88
SUMP DEPTH (mm)	-
INVERT LEVEL (m)	56.360m
WEIR LEVEL (m)	N/A



SECTION A-A



SECTION B-B

RISING SPINDLE TYPE PENSTOCK FIXED TO CAST INSITU MOUNTING BLOCK FOR USE WITH 150mm Ø BORE OPERATED FROM ABOVE BY WAY OF OPERATING ROD.

INVERT OF OUTFALL PIPE FROM PENSTOCK IS TO MATCH THE INVERT LEVEL OF THE OUTFALL PIPE FROM THE HYDROBRAKE.

SCALE BAR 1:20

0 0.5 1 1.5 2

GENERAL NOTES

THIS DRAWING TO READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR / FABRICATOR PRIOR TO COMMENCEMENT OF WORKS.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.

ALL DRAINAGE AND MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DCG.

DRAINAGE NOTES:

MANHOLE COVERS AND FRAMES SHALL BE IN ACCORDANCE WITH DCG CLAUSE 2.32.

LADDER / DOUBLE STEP ACCESS:

ALL IN ACCORDANCE WITH DCG FIGURES B4 TO B12.

FOR 1200 & 1500mm Ø MANHOLE CHAMBERS, OR WHERE THE DEPTH TO SOFFIT IS LESS THAN 3m, A FULL HEIGHT (NO ACCESS SHAFT) CONSTRUCTION IS PREFERRED.

WHERE THE DEPTH TO SOFFIT FROM COVER LEVEL IS LESS THAN 3.0m, DOUBLE ACCESS STEPS SHALL BE USED IN PLACE OF A LADDER.

WHERE THE DEPTH TO SOFFIT FROM COVER LEVEL IS GREATER THAN 3.0m, AN ACCESS LADDER SHALL BE USED. ACCESS LADDER TO UNITED UTILITIES STANDARD DETAIL No. 8. MINIMUM 1200mm INTERNAL SHAFT DIAMETER REQUIRED FOR ACCESS LADDERS.

ROCKER PIPE LENGTHS (DCG E6.6):

150mm Ø PIPE - 600mm Ø PIPE : MINIMUM 600mm LONG ROCKER PIPE
601mm Ø PIPE - 750mm Ø PIPE: MINIMUM 1000mm LONG ROCKER PIPE
OVER 750: MINIMUM 1250mm LONG ROCKER PIPE

MANHOLE TYPES:

REFER TO DCG FIGURES B4 TO B25 FOR DETAILS.

VARIABLE FEATURES:

LADDERS: IN ACCORDANCE WITH DCG CLAUSE E2.37

HANDRAILS: IN ACCORDANCE WITH DCG CLAUSE E2.36

SAFETY CHAINS: IN ACCORDANCE WITH DCG CLAUSE E2.35

NOTE:

1. ALL DRAINAGE WORKS SHALL BE IN ACCORDANCE WITH THE DCG
2. ALL CONNECTIONS WITHIN THE MANHOLE TO BE SOFFIT TO SOFFIT CONNECTIONS
3. TO BE RED IN CONJUNCTION WITH S104 LAYOUT AND PRIVATE DRAINAGE LAYOUT

Rev	Description	Date	By	Chkd
P01	FIRST ISSUE	07.02.25	KW	DS

Drawing Status
S4 TECHNICAL DESIGN

Sutcliffe
Structural & Civil Engineering
Geotechnical & Environmental Investigations
Building Surveying
Pre Planning Services
Liverpool Head Office: 0151 227 3155
Manchester Office: 0161 817 5160
North Wales Office: 01978 664 671
London Office: 020 8016 4320
www.sutcliffe.co.uk

Client
MOSSCARE ST.VINCENTS HOUSING

Project
ALDERFORD PARADE
CHEETHAM HILL
MANCHESTER

Drawing Title
HYDROBRAKE MANHOLE DETAIL
MH08

Date	Drawn By	Checked By
FEB '25	KW	DS

Scale at A1	Project Number	Status	Revision
1:20	33716	S4	P01

Sheet Number
33716-SUT-ZZ-XX-DR-C-6310