

**GENERAL**  
 1. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED. ANY DISCREPANCIES ARE TO BE RECORDED AND REPORTED TO THE ENGINEERS IMMEDIATELY.  
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ENGINEERS AND ARCHITECTS DRAWINGS AND THE SPECIFICATION.  
 3. ANY EXISTING DETAILS WHICH ARE SHOWN ON THIS DRAWING ARE FOR GUIDANCE ONLY AND ARE TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY VARIATIONS ARE TO BE RECORDED AND REPORTED TO THE ENGINEER IMMEDIATELY.

Technical Specification		
Control Point	Head (m)	Flow (l/s)
Primary Design	0.400	1.100
Flush-Fl <sup>o</sup>	0.117	1.094
Kick-Fl <sup>o</sup>	0.274	0.931
Mean Flow		0.936

Hydro-Brake<sup>®</sup> Optimum Flow Control including:

- 3 mm grade 304L stainless steel
- Integral stainless steel pivoting by-pass door allowing clear line of sight through to outlet, c/w stainless steel operating rope
- Beed blasted finish to maximise corrosion resistance
- Stainless steel fixings
- Rubber gasket to seal outlet
- Indicative Weight: 6 kg

**DESIGN ADVICE**  
 The head/flow characteristics of this SHE-0057-1100-0400-1100 Hydro-Brake<sup>®</sup> Optimum Flow Control are unique. Dynamic hydraulic modelling evaluates the full head/flow characteristic curve. The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.

**Hydro International**  
 SHE-0057-1100-0400-1100  
 Hydro-Brake<sup>®</sup> Optimum

DATE: 29/06/2023 11:18  
 SITE: Great Finborough  
 DESIGNER: logan bell  
 REF: SHE-0057-1100-0400-1100  
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 lbell@ingent.co.uk

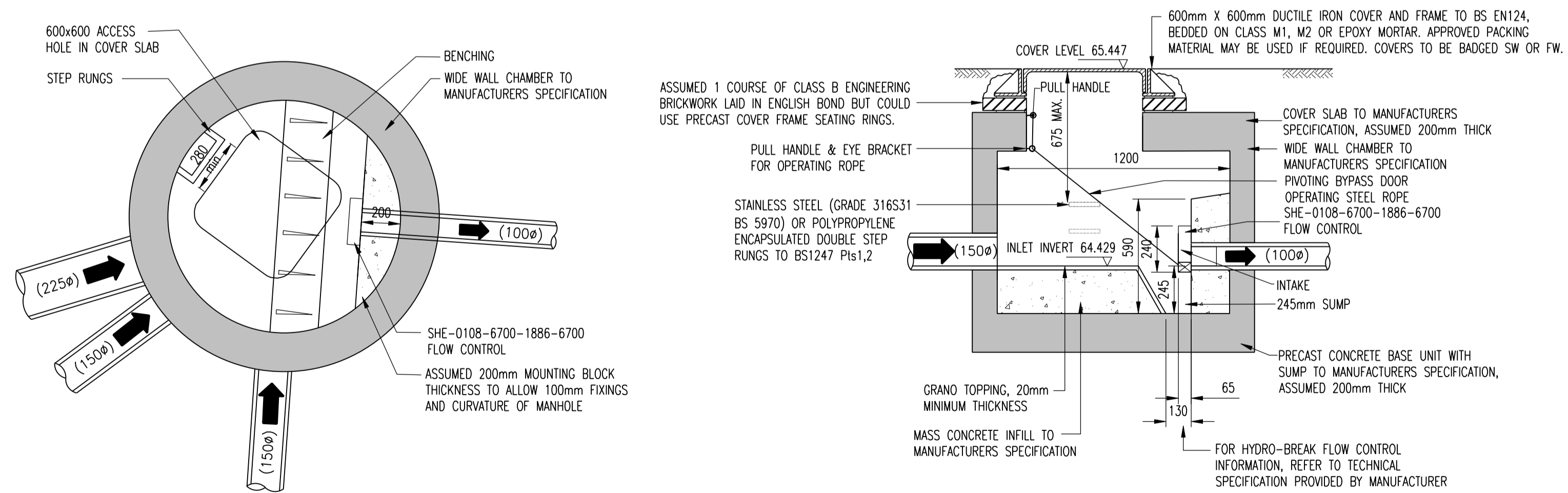
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Head (m)	Flow (l/s)
0.000	0.000
0.014	0.077
0.028	0.278
0.041	0.543
0.055	0.785
0.069	0.971
0.083	1.073
0.097	1.087
0.110	1.093
0.124	1.093
0.138	1.089
0.152	1.082
0.166	1.074
0.179	1.066
0.193	1.058
0.207	1.049
0.221	1.039
0.234	1.024
0.248	1.002
0.262	0.970
0.276	0.934
0.290	0.954
0.303	0.974
0.317	0.993
0.331	1.011
0.345	1.030
0.359	1.048
0.372	1.065
0.386	1.082
0.400	1.099

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## HYDROBRAKE FLOW CONTROL MANHOLE DETAIL

INGENT CONSULTING ENGINEERS Unit 10 Brightwell Barns, Waldringfield Road, Brightwell, Suffolk, IP10 0BJ	
worksafe consultant	SSIP SAFETY SCHEMES IN PROGRESS
PRELIMINARY	
Project: LAND REAR OF EAST HOUSE GREAT FINBOROUGH, SUFFOLK	
Drawing Title: FLOW CONTROL CONSTRUCTION DETAILS	
Client: MCNAMARA DEVELOPMENTS	Date: JUN 2023
Drawn: LB	Designed: LB
Checked: RGW	Approved: RGW
Scale: 1:20	
Project No: 2305-819	Drawing No & Revision: 007
Size: A1	