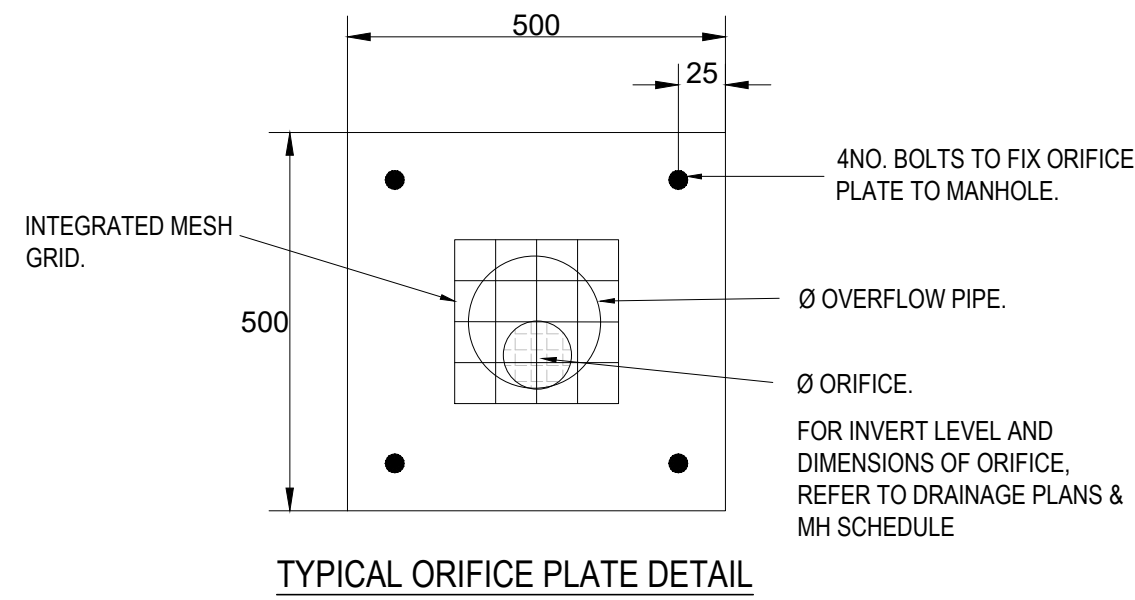
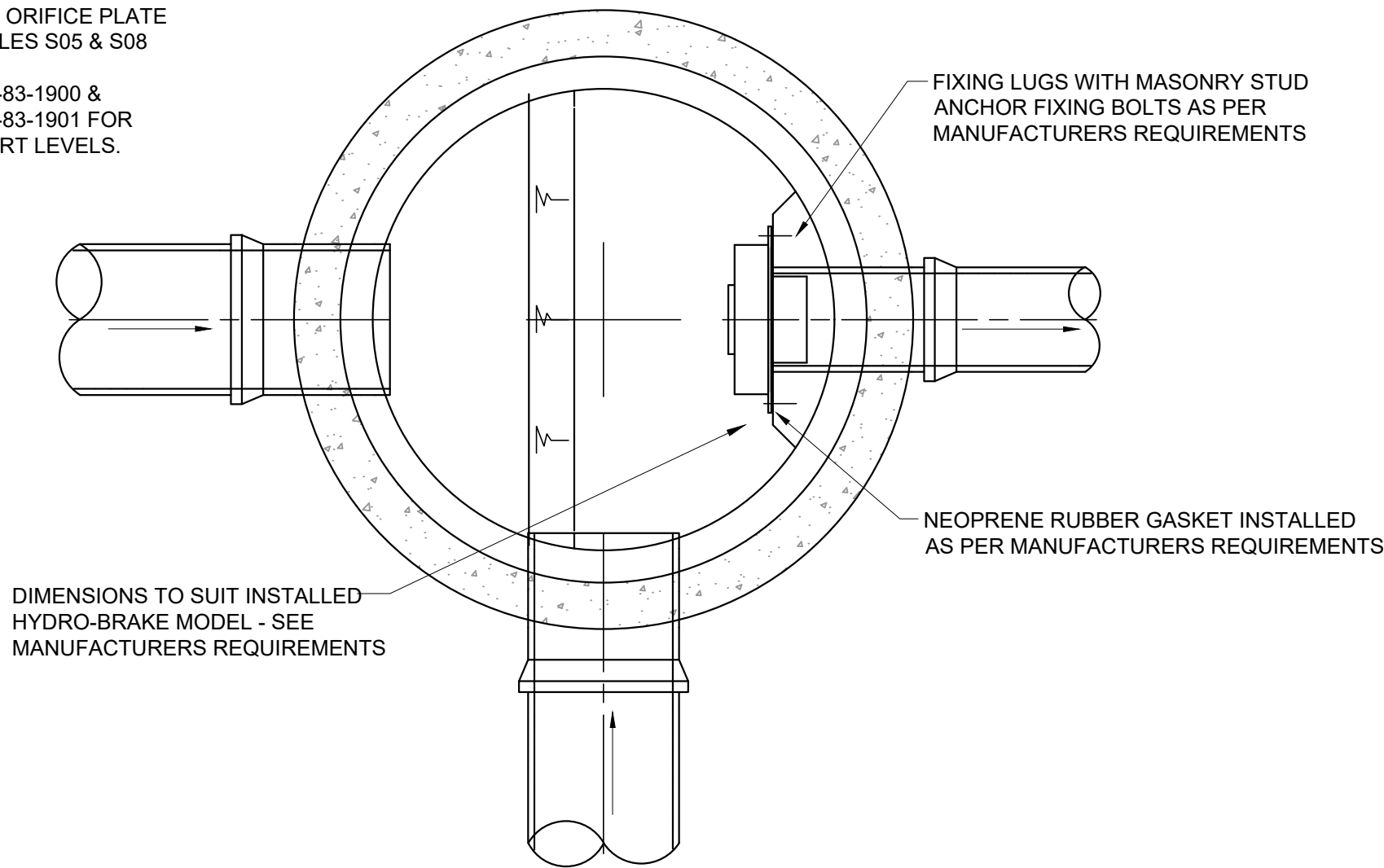
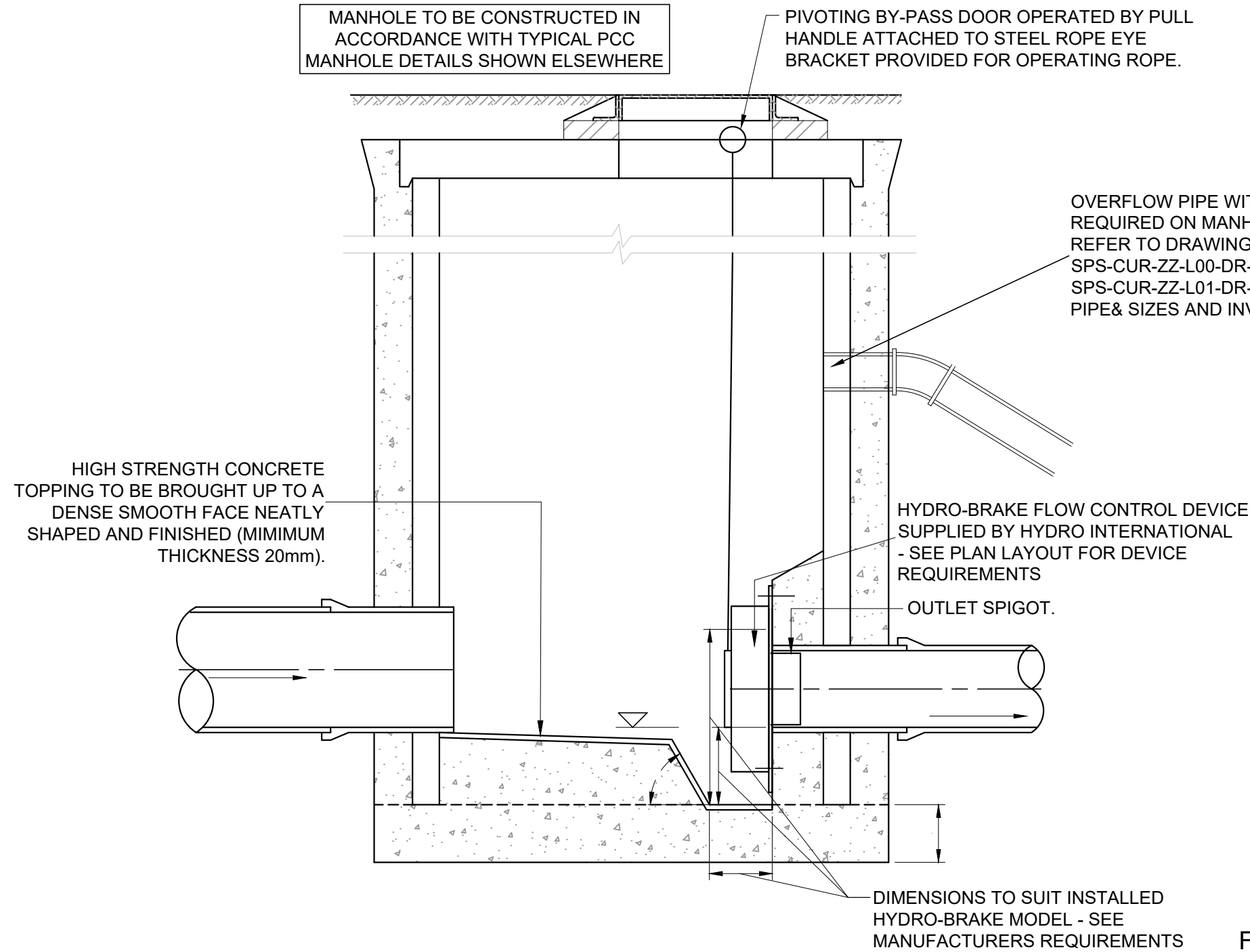




FLOW CONTROL MANHOLE (HYDRO-BRAKE)

HYDROBRAKE DETAILS MANHOLE S05

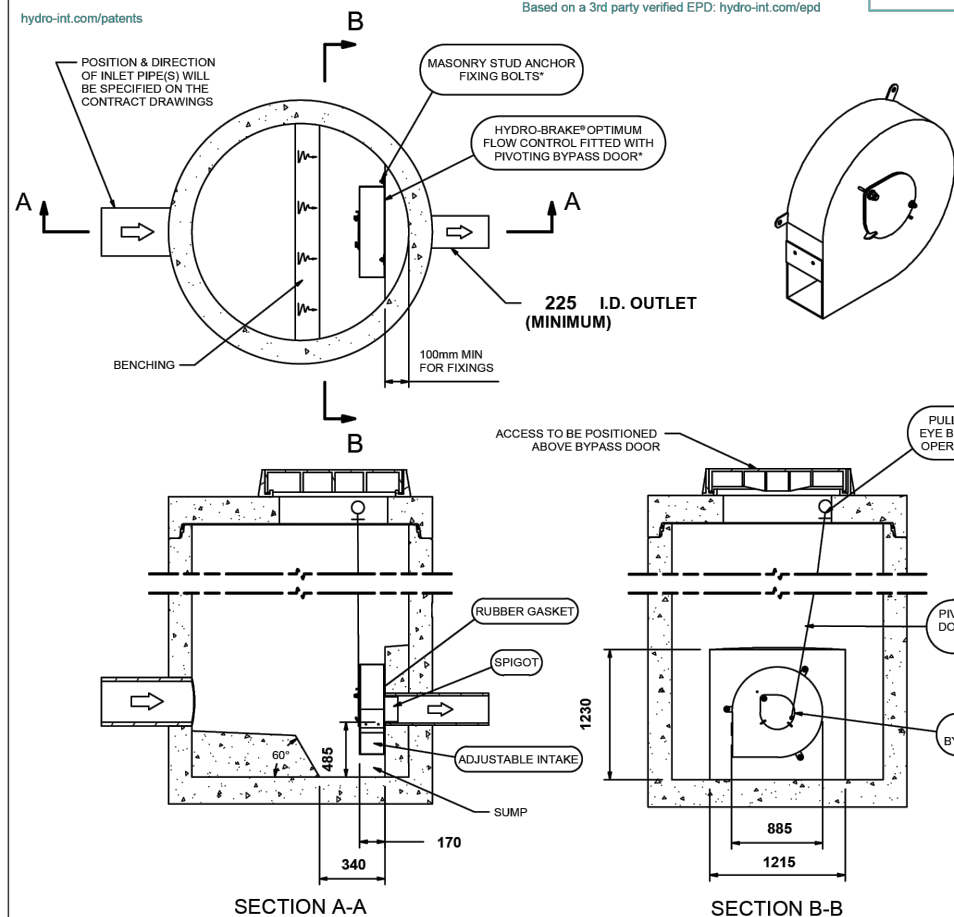
HYDROBRAKE DETAILS MANHOLE S08

Technical Specification		
Control Point	Head (m)	Flow (l/s)
Primary Design	2.000	15.500
Flush-Flo™	0.580	15.479
Kick-Flo®	1.217	12.245
Mean Flow		13.525

This Hydro-Brake® Optimum includes:

- All in 5 mm Grade 304L stainless steel
- Integral pivoting by-pass door allowing clear line of sight through to outlet, c/w operating rope
- Media blasted for corrosion resistance
- Variable flow rate post installation via adjustable inlet (if necessary)
- Indicative Weight: 70 kg
- Product Carbon Footprint: 308.68 kgCO2e

Based on a 3rd party verified EPD hydro-int.com/capmt



THIS DESIGN LAYOUT IS FOR ILLUSTRATIVE PURPOSES ONLY. NOT TO SCALE.

DESIGN ADVICE

The headflow characteristics of this SHE-0163-1550-2000-1550 Hydro-Brake® Optimum Flow Control are unique. Dynamic hydraulic modeling evaluates the full headflow characteristic curve. The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.

DATE 03/12/2025 21:29

SITE Sparkle Street

DESIGNER Andrew Losty

REF S05

Hydro International
A CURTINS COMPANY

SHE-0163-1550-2000-1550

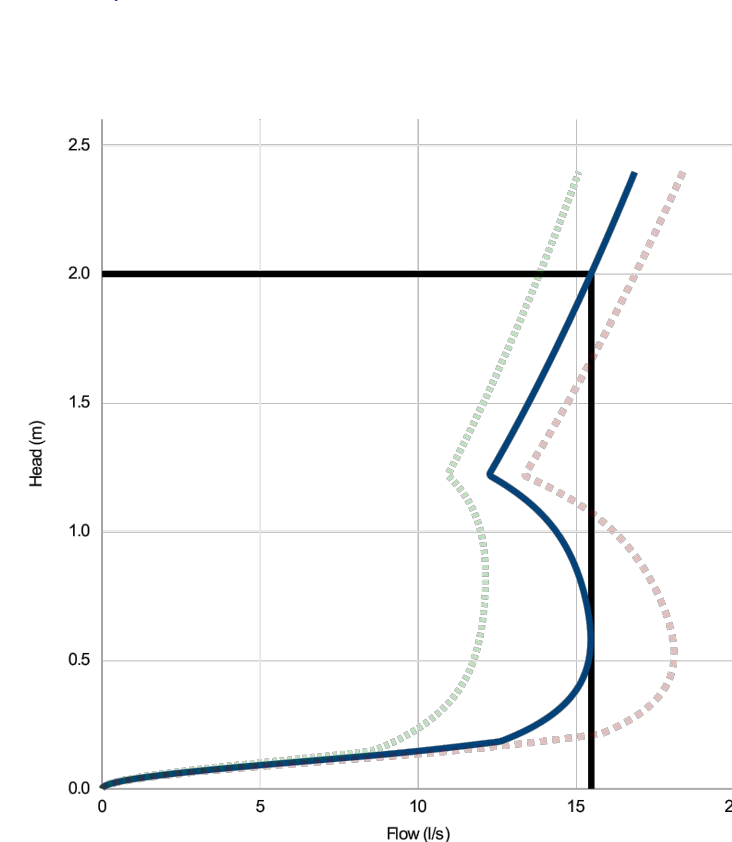
Hydro-Brake® Optimum

© 2025 Hydro International Ltd - Unit 2, Rivermead Court - Kern Business Park - Windmill Road - Kern, Cleveland, BS21 6PT. Tel: 01275 878271 - Mobile: 07500 100000 - Email: enquiries@hydro-int.com andy.losty@curtins.com

Technical Specification						
	Original Setting		Minimum Setting		Maximum Setting	
Control Point	Head (m)	Flow (l/s)	Head (m)	Flow (l/s)	Head (m)	Flow (l/s)
Primary Design	2.000	15.500	2.000	13.858	2.000	16.894
Flush-Flo™	0.580	15.479	0.823	12.147	0.523	18.123
Kick-Flo®	1.217	12.245	1.217	10.943	1.215	13.361
Mean Flow		13.525		11.297		15.237



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Head (m)	Flow (l/s)
0.000	0.000
0.069	3.060
0.138	9.350
0.207	13.086
0.276	14.118
0.345	14.774
0.414	15.172
0.483	15.387
0.552	15.472
0.621	15.466
0.690	15.395
0.759	15.274
0.828	15.104
0.897	14.877
0.966	14.573
1.034	14.162
1.103	13.607
1.172	12.868
1.241	12.360
1.310	12.679
1.379	12.990
1.448	13.293
1.517	13.588
1.586	13.877
1.655	14.159
1.724	14.436
1.793	14.707
1.862	14.972
1.931	15.233
2.000	15.489

DESIGN ADVICE

The headflow characteristics of this SHE-0163-1550-2000-1550 Hydro-Brake® Optimum Flow Control are unique. Dynamic hydraulic modeling evaluates the full headflow characteristic curve. The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.

DATE 03/12/2025 21:29

SITE Sparkle Street

DESIGNER Andrew Losty

REF S05

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SHE-0163-1550-2000-1550

Hydro-Brake® Optimum

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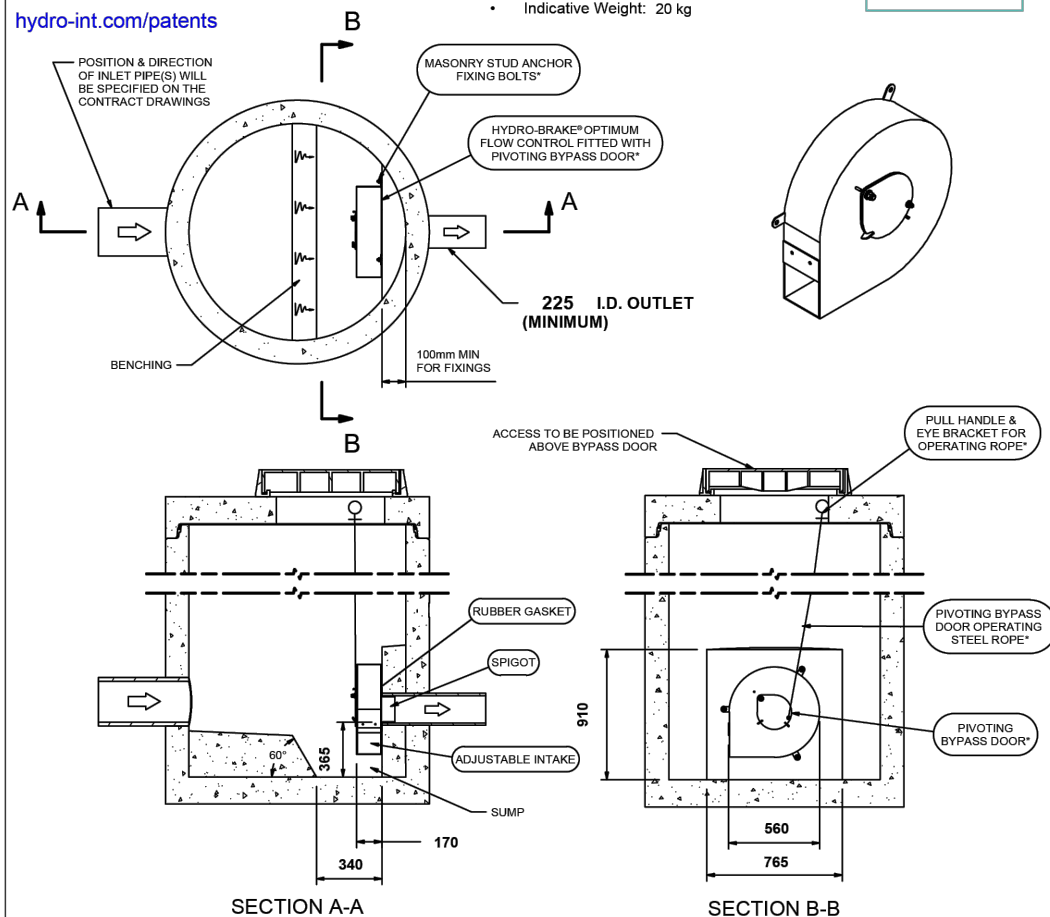
Technical Specification		
Control Point	Head (m)	Flow (l/s)
Primary Design	0.800	12.100
Flush-Flo™	0.272	12.081
Kick-Flo®	0.578	10.382
Mean Flow		10.133

Hydro-Brake® 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
- Variable flow rate post installation via adjustable inlet
- Indicative Weight: 20 kg



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DESIGN ADVICE

The headflow characteristics of this SHE-0161-1210-0800-1210 Hydro-Brake® Optimum Flow Control are unique. Dynamic hydraulic modeling evaluates the full headflow characteristic curve. The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.

DATE 28/09/2024 09:27

SITE Sparkle Street

DESIGNER Andrew Losty

REF S08

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SHE-0161-1210-0800-1210

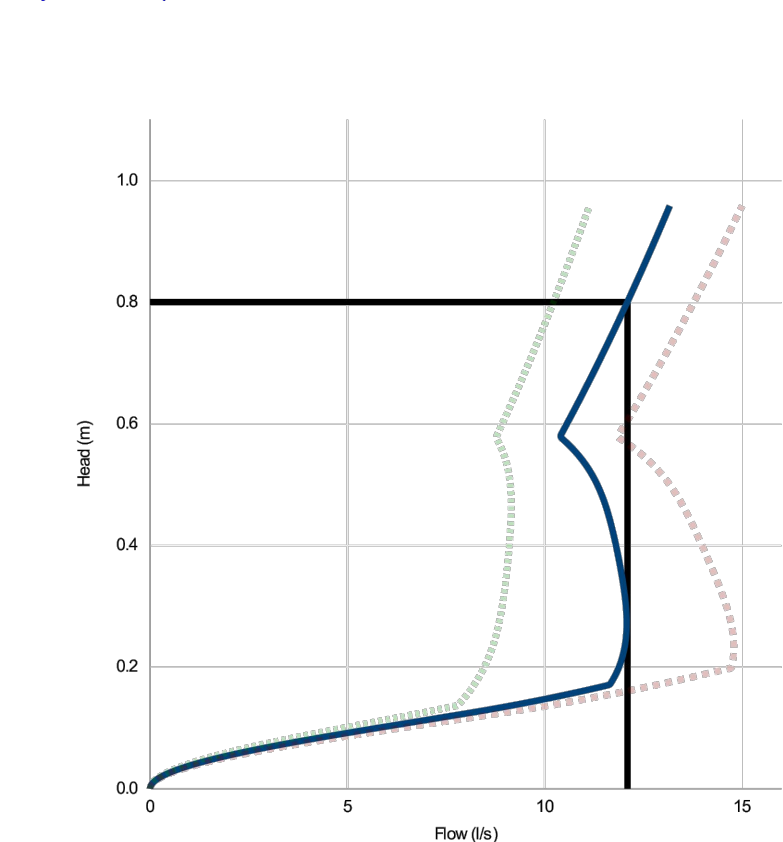
Hydro-Brake® Optimum

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Technical Specification						
	Original Setting		Minimum Setting		Maximum Setting	
Control Point	Head (m)	Flow (l/s)	Head (m)	Flow (l/s)	Head (m)	Flow (l/s)
Primary Design	0.800	12.100	0.800	10.225	0.800	13.784
Flush-Flo™	0.272	12.081	0.466	9.155	0.233	14.798
Kick-Flo®	0.578	10.382	0.577	8.760	0.578	11.834
Mean Flow		10.133		8.052		11.804



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Head (m)	Flow (l/s)
0.000	0.000
0.028	0.541
0.055	2.024
0.083	4.202
0.110	6.758
0.138	9.286
0.166	11.304
0.193	11.840
0.221	11.989
0.248	12.063
0.276	12.080
0.303	12.056
0.331	12.004
0.359	11.934
0.386	11.853
0.414	11.761
0.441	11.656
0.469	11.527
0.497	11.358
0.524	11.128
0.552	10.810
0.579	10.409
0.607	10.622
0.634	10.846
0.662	11.065
0.690	11.280
0.717	11.490
0.745	11.696
0.772	11.898
0.800	12.096

DESIGN ADVICE

The headflow characteristics of this SHE-0161-1210-0800-1210 Hydro-Brake® Optimum Flow Control are unique. Dynamic hydraulic modeling evaluates the full headflow characteristic curve. The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.

DATE 28/09/2024 09:27

SITE Sparkle Street

DESIGNER Andrew Losty

REF S08

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GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES REFER TO DRAWING 082142-CUR-XX-XX-D-C-92500

P03	PRELIMINARY STAGE 4 ISSUE	05.12.25	ATL	MW
P02	ISSUED FOR STAGE 3	27.09.24	ATL	ATL
P01	ISSUED FOR STAGE 2	14.07.23	ATL	CG
Rev:	Description:	Date:	By:	Chkd:

Curtins

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Status:

Project:

SPARKLE STREET, MANCHESTER

Dwg Title:

TYPICAL DRAINAGE DETAILS SHEET 4

Drawn By	Designed By	Checked By
ATL	ATL	CD
Project No	Date	Scales @ A1
0824142	14/07/23	NTS
Project No - Originator - Function - Spatial - Form - Discipline - Number		
Revision		
SPS - CUR - ZZ - ZZ - DR - C - 83-4923	P03	