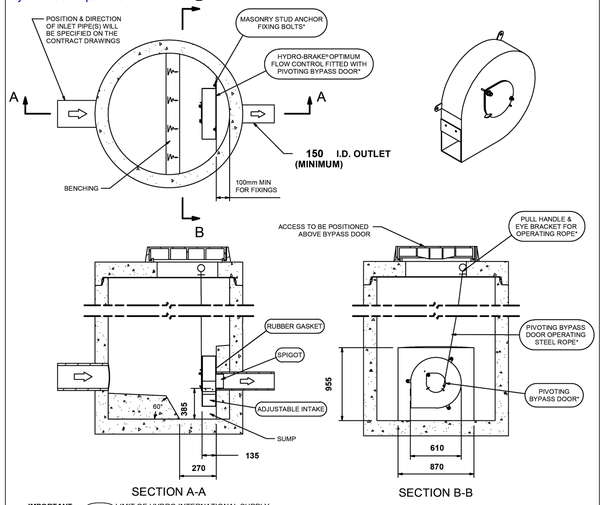
Technical Specification

Control Point	Head (m)	Flow (l/s)
Primary Design	1.200	8.100
Flush-Flo™	0.353	8.090
Kick-Flo®	0.764	6.561
Mean Flow		7.030

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

hydro-int.com/patents



IMPORTANT: LIMIT OF HYDRO INTERNATIONAL SUPPLY
THE DEVICE WILL BE HANDED TO SUIT SITE CONDITIONS
FOR SITE SPECIFIC DETAILS AND MINIMUM CHAMBER SIZE REFER TO HYDRO INTERNATIONAL
ALL CIVIL AND INSTALLATION WORK BY OTHERS
* WHERE SUPPLIED
HYDRO-BRAKE® FLOW CONTROL & HYDRO-BRAKE® OPTIMUM FLOW CONTROL ARE REGISTERED TRADEMARKS FOR FLOW CONTROLS DESIGNED AND MANUFACTURED EXCLUSIVELY BY HYDRO INTERNATIONAL

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

DESIGN ADVICE !

The head/flow characteristics of this SHE-0129-8100-1200-8100 Hydro-Brake® 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 — A CRH COMPANY

DATE	11/03/2025 16:08
SITE	South Wokingham
DESIGNER	Rebecca Fletcher
REF	R11A / 25_21_1563

SHE-0129-8100-1200-8100
Hydro-Brake® Optimum

© 2026 Hydro International Ltd • Unit 2, Rivermead Court • Kenn Business Park • Windmill Road • Kenn • Clevedon • BS21 6FT • Tel: 01275 878371 • www.hydro-int.com • Email: enquiries@hydro-int.com

rfletcher@alpce.co.uk

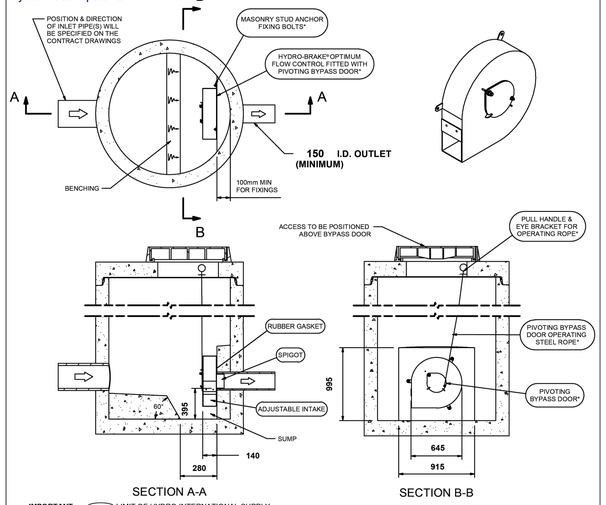
Technical Specification

Control Point	Head (m)	Flow (l/s)
Primary Design	1.300	8.900
Flush-Flo™	0.384	8.901
Kick-Flo®	0.824	7.191
Mean Flow		7.744

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

hydro-int.com/patents



IMPORTANT: LIMIT OF HYDRO INTERNATIONAL SUPPLY
THE DEVICE WILL BE HANDED TO SUIT SITE CONDITIONS
FOR SITE SPECIFIC DETAILS AND MINIMUM CHAMBER SIZE REFER TO HYDRO INTERNATIONAL
ALL CIVIL AND INSTALLATION WORK BY OTHERS
* WHERE SUPPLIED
HYDRO-BRAKE® FLOW CONTROL & HYDRO-BRAKE® OPTIMUM FLOW CONTROL ARE REGISTERED TRADEMARKS FOR FLOW CONTROLS DESIGNED AND MANUFACTURED EXCLUSIVELY BY HYDRO INTERNATIONAL

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

DESIGN ADVICE !

The head/flow characteristics of this SHE-0134-8900-1300-8900 Hydro-Brake® 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 — A CRH COMPANY

DATE	07/03/2025 14:38
SITE	South Wokingham
DESIGNER	Rebecca Fletcher
REF	A389 R11B

SHE-0134-8900-1300-8900
Hydro-Brake® Optimum

© 2026 Hydro International Ltd • Unit 2, Rivermead Court • Kenn Business Park • Windmill Road • Kenn • Clevedon • BS21 6FT • Tel: 01275 878371 • www.hydro-int.com • Email: enquiries@hydro-int.com

rfletcher@alpce.co.uk

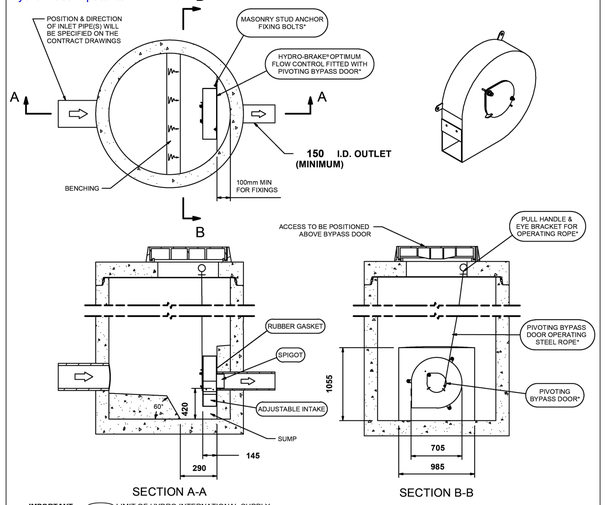
Technical Specification

Control Point	Head (m)	Flow (l/s)
Primary Design	1.500	10.000
Flush-Flo™	0.441	9.984
Kick-Flo®	0.933	8.000
Mean Flow		8.713

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: 30 kg

hydro-int.com/patents



IMPORTANT: LIMIT OF HYDRO INTERNATIONAL SUPPLY
THE DEVICE WILL BE HANDED TO SUIT SITE CONDITIONS
FOR SITE SPECIFIC DETAILS AND MINIMUM CHAMBER SIZE REFER TO HYDRO INTERNATIONAL
ALL CIVIL AND INSTALLATION WORK BY OTHERS
* WHERE SUPPLIED
HYDRO-BRAKE® FLOW CONTROL & HYDRO-BRAKE® OPTIMUM FLOW CONTROL ARE REGISTERED TRADEMARKS FOR FLOW CONTROLS DESIGNED AND MANUFACTURED EXCLUSIVELY BY HYDRO INTERNATIONAL

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

DESIGN ADVICE !

The head/flow characteristics of this SHE-0138-1000-1500-1000 Hydro-Brake® 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.

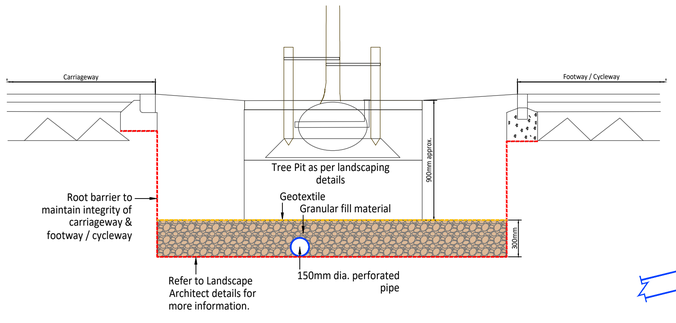
Hydro International — A CRH COMPANY

DATE	11/03/2025 16:18
SITE	South Wokingham
DESIGNER	Rebecca Fletcher
REF	R11C / 25_21_1563

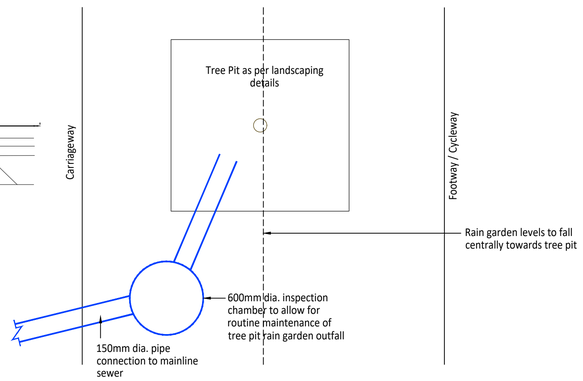
SHE-0138-1000-1500-1000
Hydro-Brake® Optimum

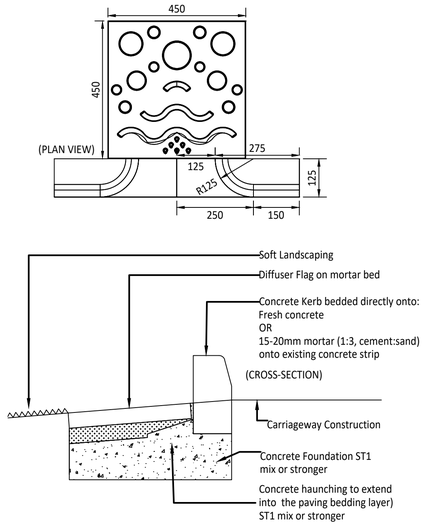
© 2026 Hydro International Ltd • Unit 2, Rivermead Court • Kenn Business Park • Windmill Road • Kenn • Clevedon • BS21 6FT • Tel: 01275 878371 • www.hydro-int.com • Email: enquiries@hydro-int.com

rfletcher@alpce.co.uk

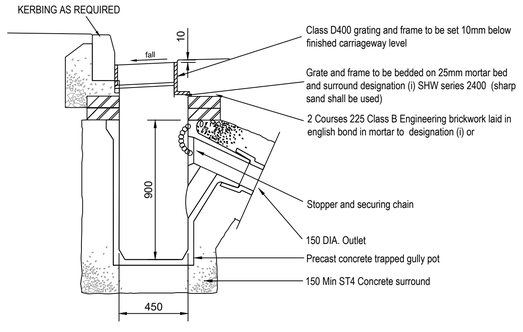


RAIN GARDEN TREE PIT OUTLET
SCALE 1:20





MARSHALLS EDEN KERB DETAIL
SCALE NTS



TYPICAL TRAPPED GULLY DETAIL
SCALE 1:10

© ABLEY LETCHFORD PARTNERSHIP LTD.
This drawing should not be reproduced without consent.

GENERAL DRAINAGE NOTES:

1. All sewers to comply with the requirements of the water authorities publication "Design and Construction Guidance, Version 2.1" together with Independent Water Network Addendum.
2. All public sewers are to be the subject of a Section 104 agreement of the Water Industry Act 1991.
3. Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
4. All manhole ironworks to comply with BS EN124, and be stamped with BSI Kitemark. Covers to suit loading as below;
 - -Carriageways and Roads - E600
 - -Driveways and Verges - C250
 - -Footways and Pedestrian Areas - B125
 - -Gardens/Landscaping - A15
5. All sewer pipes, up to, and including 225mm are to be vitrified clay to BS EN295. All sewer pipes 300mm diameter and above to concrete pipes to BS EN1916.
6. All drainage shall be installed and tested strictly in accordance with the Manufacturers' printed instructions, BS EN 752, BS EN 1601, Local Water Authority requirements and the Building Regulations.
7. All bedding shall be Class S unless noted otherwise.
8. All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted Type 1 granular sub-base material.
9. Drainage laid beneath roads and areas of vehicular access (car parking etc) with less than 1200mm of cover shall be encased in concrete bed and surround with associated movement joints. Drainage laid beneath paths, footways and pedestrian areas with less than 900mm of cover shall be similarly treated.
10. Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
11. The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
12. All gully connections to use a minimum diameter pipe of 150mm and to be surrounded by a minimum of 150mm of grade C8/C10 concrete over its full length (which should not exceed 15m) and its connection to the carrier system.

Rev	Date	Description	Drawn	Checked
C	04.25	Marshalls Eden Kerb detail added	RF	RF
B	07.25	Rain Garden Detail Amended	JJS	RF
A	03.25	First Issue	JJS	RF

ABLEY LETCHFORD PARTNERSHIP
Consulting Engineers
3 Tealgate, Charnham Park
Hungerford, Berkshire RG17 0YT
www.alpce.co.uk Tel: 01488 684390

Client:
KIER PROPERTY DEVELOPMENTS LIMITED

Project:
SOUTH WOKINGHAM SDL PHASE 2B R11 RESERVED MATTERS APPLICATION

Title:
DRAINAGE CONSTRUCTION DETAILS SHEET 2

Status:

Scale	Date	Drawn	Checked
AS SHN @ A1	MARCH 2025	JJS	RF

Drawing No: A389-R11-RM-512
Revision: C