

Ronnie McGregor

From: Amanda Scholes on behalf of Planning.Responses
Sent: 09 August 2019 13:11
To: Planning Scanning
Subject: FW: FG/62/19/DOC
Attachments: 2496 6581 REV B SURFACE WATER DRAINAGE.pdf; 2496 6608 REV A Pond details and sections.pdf; ridgistormaccess_manholes_-_issue_2_-_march_2019_1.pdf; VORTEX CONTROL CHAMBER-BROCHURE.pdf; release of condition.docx

From: Juan Baeza
Sent: 09 August 2019 11:26
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Subject: FG/62/19/DOC

Can this email together with attachments go on web site.

Thanks

Juan Baeza Area Team Leader – Planning Department, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

Visit Arun's web site at www.arun.gov.uk



Save the environment - think before you print.

From: Christine Cheesmur [REDACTED]
Sent: 09 August 2019 10:28
To: Juan Baeza [REDACTED]
Subject: FW: FG/203/18/PL Ferring Country Centre

Further to your conversation with Ollie of Spitfire please see below and attached which was sent to Anita Gardner on 31st July.

We understand that Anita is on holiday and that you will forward the details to the drainage engineer for approval.

Thank you

Regards

Christine Cheesmur



Unit 19 Borers Yard, Borers Arms Road, Copthorne, RH10 3LH

[REDACTED]

From: Christine Cheesmur
Sent: 31 July 2019 16:35
To: Anita Gardner [REDACTED]
Cc: [REDACTED]
Subject: FG/203/18/PL Ferring Country Centre

Dear Anita

Please find attached letter and details regarding Condition 4 drainage details.

We look forward to your response.

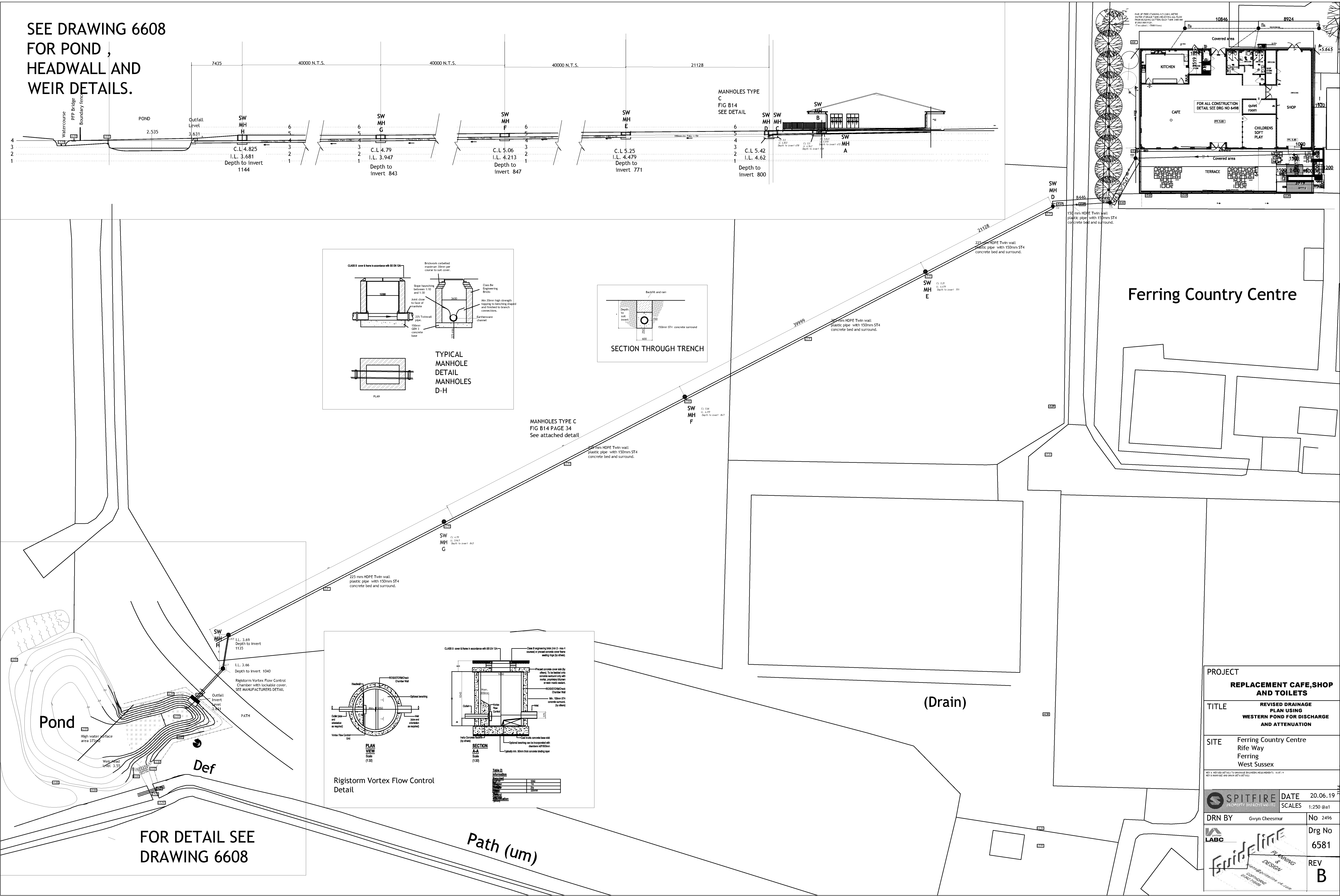
Regards
Christine

Christine Cheesmur

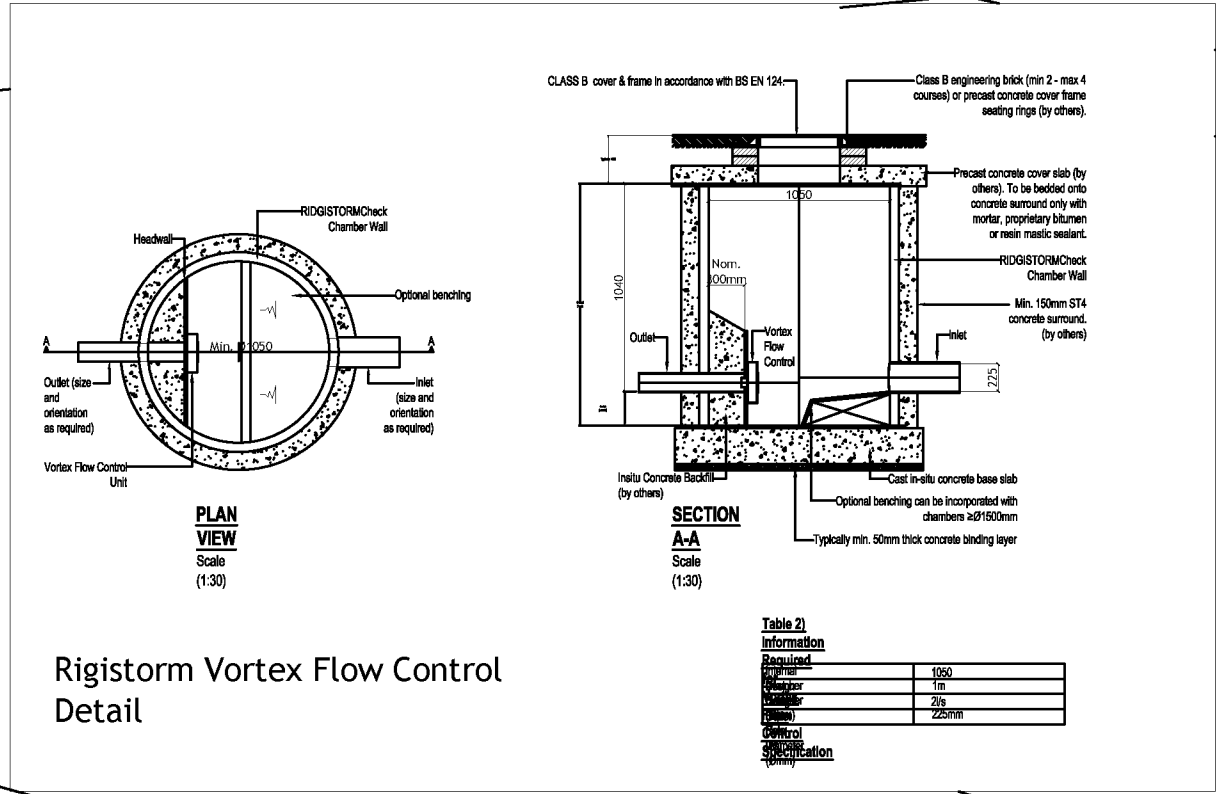
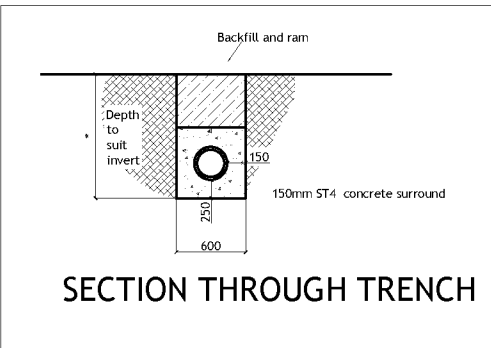
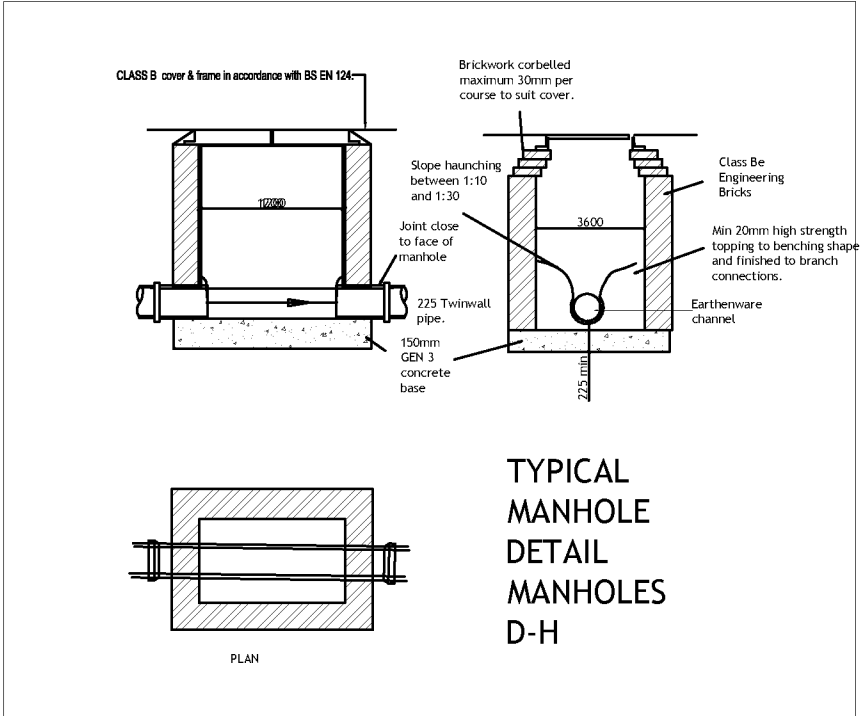


Unit 19 Borers Yard, Borers Arms Road, Copthorne, RH10 3LH
[REDACTED]

SEE DRAWING 6608
FOR POND ,
HEADWALL AND
WEIR DETAILS.



FOR DETAIL SEE
DRAWING 6608



PROJECT REPLACEMENT CAFE,SHOP AND TOILETS			
TITLE REVISED DRAINAGE PLAN USING WESTERN POND FOR DISCHARGE AND ATTENUATION			
SITE Ferring Country Centre Rife Way Ferring West Sussex			
DATE 20.06.19			
SCALES 1:250 @a1			
DRN BY Gwyn Cheesmur	No 2496		
LABC	Drg No 6581		
SPITFIRE PLANNING & DESIGN 01243 810000 01243 810001			REV B

BANK LEVEL +4.00

POND BED +2.53

Brickwork to be constructed in English Bond with Class B Engineering bricks to B.S 6100 flush jointed in Class 1 mortar.

1200mm high post and rail fence

Outfall Invert Level 3.631

Althon 225mm Ductile Iron Flap Valve

ST4 Concrete Foundation

A 393mesh reinforcement

Pond side sloped min 1in 1.5 (33 degrees.)

SECTION THROUGH HEADWALL X-X

Brick on edge coping.

1500

225 mm wing walls

POND BED +2.53

A 393 mesh with min 50mm cover

ELEVATION OF HEADWALL

Bags shall be Hessian or canvas and shall be of a size to provide a 500mm wall thickness.
Concrete bagwork shall be to Clause 519 and shall be filled with 25mm slump ST4 concrete immediately prior to placing with end sewn.
The bags shall placed in a flemish bond formation so as to break all joints and be laid with sen ends away from surface.
Then tamped into position to form a rectangular block.

CLEAR OUT EXISTING CHANNEL

Boundary Fence

BANK LEVEL +4.06

Bagwork to channel sides to match existing profile.

Existing footbridge

Existing Watercourse

WEIR LEVEL +3.55

POND BED +2.53

All bags to be staked with 12mm rehooked reinforcing bar.

REMOVE MESH GRILL

Pond side sloped min 1in 1.5 (33 degrees.)

SECTION THROUGH UPGRADED POND WEIR

Normal surface water discharge will restricted to the agreed discharge rate of 2 litres /sec.

GENERAL KEY
WH - WINDOW HEIGHT
BH - BEAM HEIGHT
DH - DOOR HEIGHT
IL - INVERT LEVEL
R.W.P. - RAIN WATER PIPE
S.V.P. - SOIL AND VENT PIPE
CH - CEILING HEIGHT
SH - SILL HEIGHT
THIS IS NOT A WORKING DRAWING.
The information provided is either for client information, planning consideration or shows compliance under the building regulations. It does not purport to provide all the information necessary to carry out construction works and could be subject to variation in detail.
DO NOT SCALE.
Only written dimensions should be used.
Prior to commencement of work on site, dimensions and particulars should be checked and any discrepancies reported immediately to Guideline Building Services Ltd.
Any works carried out prior to consent from the local authority are at clients risk.

Pond

surface area 384m2

AREA OF EXISTING POND TAKEN TO DEPTH OF ORIGINAL POND AND SIDES CHAMFERED

1200mm high post and rail fence

SW MH

C.L 4.825
I.L. 3.69
Depth to invert 1135

C.L 4.7
I.L. 3.66
Depth to invert 1040

Rigistorm Vortex Flow Control Chamber with lockable cover. SEE MANUFACTURERS DETAIL.

Outfall Invert Level 3.631

PATH

Footpath

Weir head level 3.55

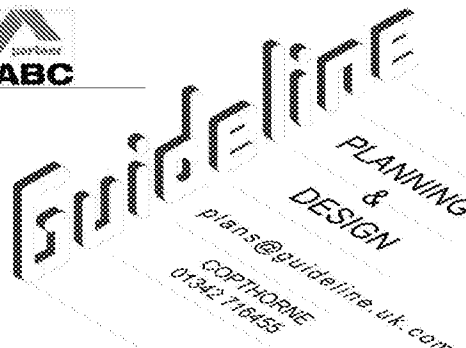
Pond side sloped min 1in 1.5 (33 degrees.)

Def PLAN ON POND SCALE 1:100

Boundary fence

Existing footbridge

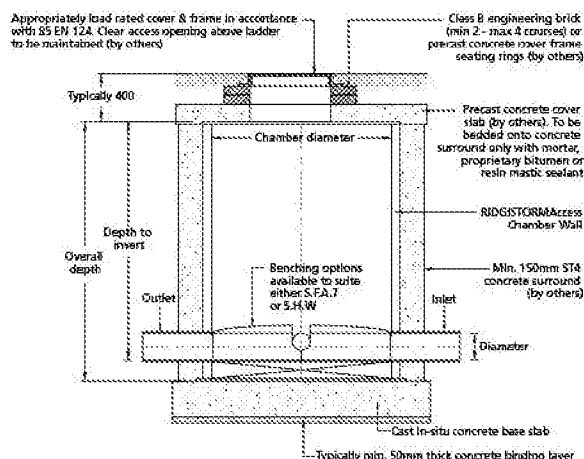
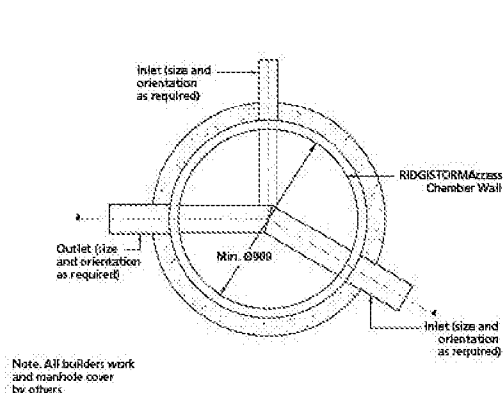
Watercourse

PROJECT		REPLACEMENT CAFE,SHOP AND TOILETS	
TITLE		REVISED DRAINAGE PLAN USING WESTERN POND FOR DISCHARGE AND ATTENUATION	
SITE		Ferring Country Centre Rife Way Ferring West Sussex	
REV A Specification amends to Drainage Engineers requests. 24.07.19			
 SPITFIRE PROPERTY IMPROVEMENTS		DATE	18.07.19
		SCALES	1:25 @a1
DRN BY		Gwyn Cheesmur	No 2496
		Drg No	6608
		REV	A

RIDGISTORMAccess Manholes are used for access and inspection and fall into 3 different categories:

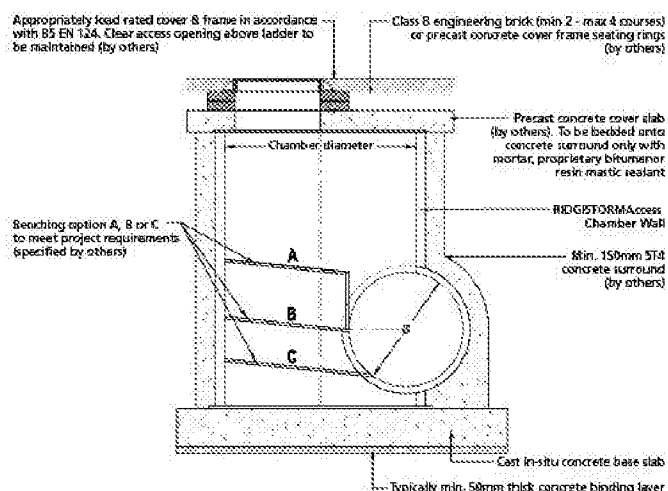
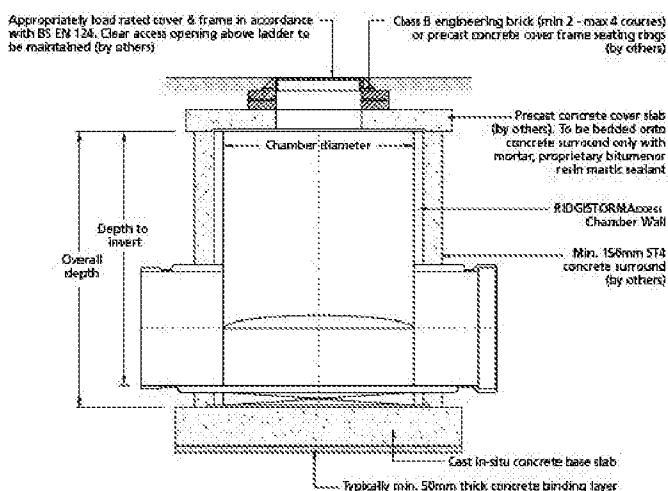
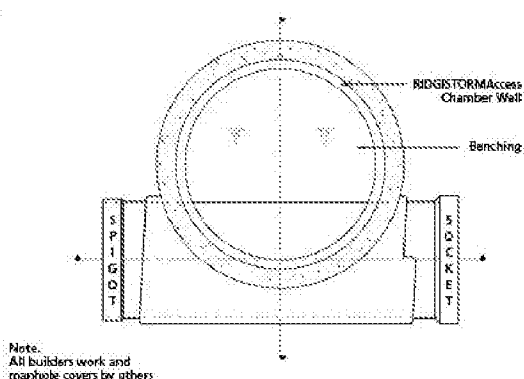
1. Conventional manholes

These are positioned on a run of sewer pipes and can incorporate side connections if required.

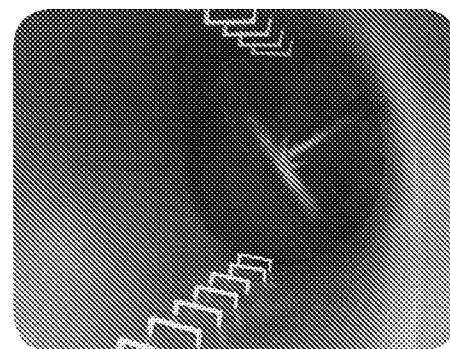


2. Side entry manholes

Generally used on large diameter sewers, side entry manholes provide ease of access.



Whether your project calls for stormwater, foul water or combined sewer systems, we can purpose-build high density polyethylene (HDPE) pre-fabricated manholes, to provide easy access into a pipeline. RIDGISTORMAccess Manholes are utilised where pipe runs change direction, combine, change invert level, diameter or pipe material. They can be integrated into our surface water (Ridgidrain and Ridgistorm-XL) and sewer (Polysewer, Ridgisewer and Ridgistorm-XL) pipework systems or engineered to connect to other pipe materials.



Applications

RIDGISTORMAccess Manholes are engineered for the use in stormwater, foul and combined sewer applications to enable access to the pipework system for inspection and maintenance. Factory installed, preformed benching and channelling is available to spring line (SHW) or soffit (SFA) depending on the specification required. RIDGISTORMAccess Manholes can be pre-fabricated with a number of features to reduce the need for direct access into the pipe, such as an offset channel, or maximising step landing width, or to minimise operational Health and Safety risks with the pre-installation of Toe Holds, Safety Chain Assemblies and Guardrail Assemblies.

Key Features and Benefits

- Provides easy access for maintenance
- Can be manufactured to adoptable standards
- Full range of accessories available including toe holds, safety chain attachment points and Guardrails
- Multiple inlet and outlet options allowing quick and seamless connection to the pipeline
- Depths can be tailored to suit project requirements
- Integral benching
- Optional step irons to BS EN 13101 and ladders to BS EN 14376
- Stub connections and rocker pipes are available
- Integral lifting points available on request to improve Health and Safety of handling and installation
- Manufactured in a factory controlled environment for improved quality of finish
- Eliminates wastage associated with in-situ construction

Compatibility

RIDGISTORMAccess Manholes can be integrated into our surface water (Ridgidrain and Ridgistorm-XL) and sewer (Polysewer, Ridgisewer and Ridgistorm-XL) pipework systems or engineered to connect to other pipe materials.

Performance

RIDGISTORMAccess Manholes are fabricated from Ridgistorm-XL pipework, which is manufactured to meet the material requirements of BS EN 13476.

RIDGISTORMACCESS MANHOLES

PHYSICAL PROPERTIES

Diameter	900-3000mm
Depth	To suit requirements
Material	HDPE
Colour	Black with blue interior
Loading	Determined by structural design
Chemical resistance	HDPE is naturally resistant to most chemicals naturally found in stormwater run-off and uncontaminated ground
Inlets/outlets	100-3000mm

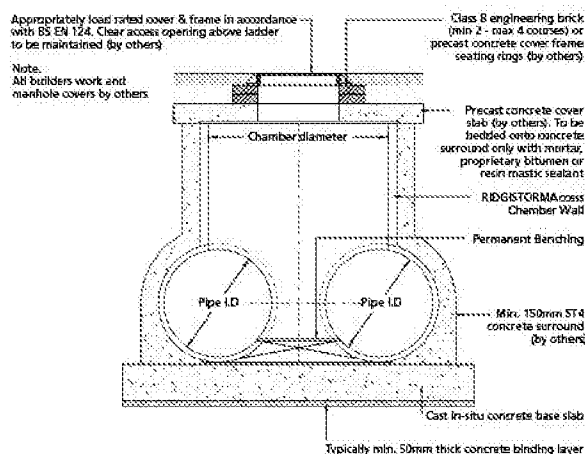
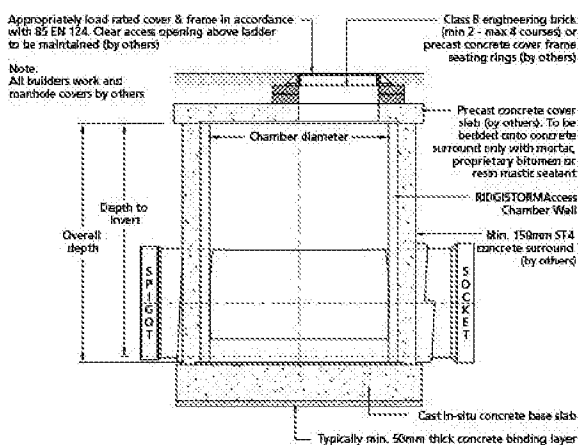
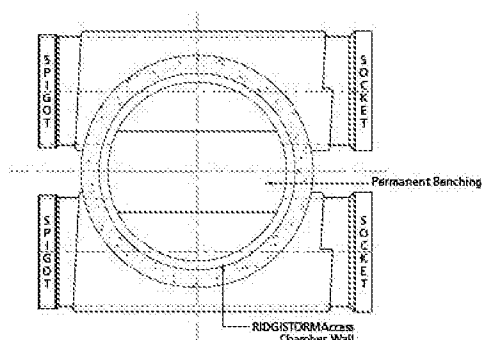
Our Ridgistorm-XL Fabrications range

All of our Ridgistorm-XL fabrications are tailor-made, fully-welded, watertight structured wall chambers to suit project-specific requirements. Health and Safety benefits become apparent during handling and installation, due to our fabrications' strong but light in weight nature. In addition, off-site construction ensures uncompromised, high quality products being delivered to site ready-to-install, reducing installation time and costs.



3. Multiple pipe manholes

Where dual sewer pipes carrying the same flows run parallel with one another, the manhole is positioned centrally to allow a single point of access to both pipelines.



For further information please contact our Technical Team on +44 (0) 1509 615100 or download our CAD Standard Details from our website www.polypipe.com/civils-technical-hub

All descriptions and illustrations in this publication are intended for guidance only and shall not constitute a 'sale by description'. All dimensions given are nominal and Polypipe may modify and change the information, products and specifications from time to time for a variety of reasons, without prior notice. The information in this publication is provided 'as is' on March 2019. Updates will not be issued automatically. This information is not intended to have any legal effect, whether by way of advice, representation or warranty (express or implied). We accept no liability whatsoever (to the extent permitted by law) if you place any reliance on this publication you must do so at your own risk. All rights reserved. Copyright in this publication belongs to Polypipe and all such copyright may not be used, sold, copied or reproduced in whole or part in any manner in any media to any person without prior consent. @Polypipe is a registered trademark of Polypipe. All Polypipe products are protected by Design Right under CDPA 1988. Copyright © 2019 Polypipe. All rights reserved.

RIDGISTORMCheck Vortex Flow Control Chambers

Data Sheet

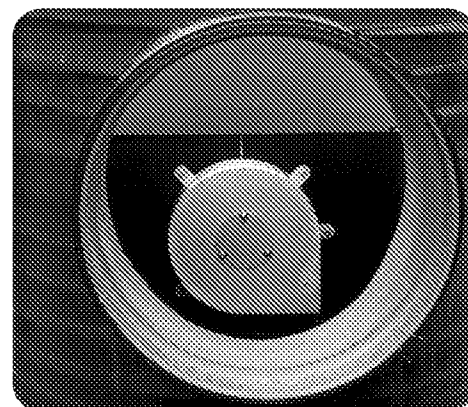
PRODUCT INFORMATION

P1

ISSUE 2 - MAR 2019

Where flows within a drainage system are required to be limited (i.e. prior to discharge from site), with improved hydraulic performance and reduced maintenance, we are able to offer our RIDGISTORMCheck Vortex Flow Control Chamber.

Pre-fabricated under factory controlled conditions, the RIDGISTORMCheck Chamber is available in a range of diameters from 1050-3000mm and incorporates a vortex flow control unit, fitted onto a preformed headwall. Each vortex flow control unit is manufactured to suit the unique hydraulic characteristics of the site's drainage system design. RIDGISTORMCheck Vortex Flow Control Chambers are typically supplied as a single unit, allowing simple installation and eliminating a number of construction risks associated with in-situ construction. When installed in conjunction with our range of pipe systems, they offer a fully integrated drainage system.



Applications

Site specific RIDGISTORMCheck Vortex Flow Control Chambers are engineered to suit a range of stormwater systems, providing a hydraulically efficient means of flow regulation that does not use moving parts or require power to operate.

Key Features and Benefits

- Self-activating vortex flow controller which controls forward flow of water
- No moving parts - virtually maintenance free
- Manufactured with an integral sump for silt catchment/removal
- Can be manufactured to adoptable standards
- Multiple inlet and outlet options, allowing quick and seamless connection to pipelines
- Depths can be tailored to suit project requirements
- Optional integral benching
- Optional step rungs to BS EN 13101 and ladders to BS EN 14396
- Optional riser section and riser location ring
- Integral lifting points available on request to improve Health and Safety during handling and installation
- Stub connections and rocker pipes are available
- Manufactured in a factory controlled environment for improved quality of finish
- Eliminates wastage associated with in-situ construction

Other fabrications in our RIDGISTORMCheck range:

- Orifice Plate Flow Control Chambers

Performance

RIDGISTORMCheck Vortex Flow Control Chambers are fabricated from Ridgiform-XL pipework, which is manufactured to meet the material requirements of BS EN 13476

RIDGISTORMCHECK VORTEX FLOW CONTROL CHAMBER

PHYSICAL PROPERTIES

Diameter	1050-3000mm
Depth	To suit requirements
Material	HDPE
Colour	Black with Blue Interior
Flow control units	Grade 304 Stainless Steel
Chemical resistance	HDPE is naturally resistant to most chemicals associated with stormwater drainage systems
Inlets/outlets	100-3000mm
Hydraulic performance	Unit manufactured to suit site specific conditions

Our Ridgiform-XL Fabrications range

All of our Ridgiform-XL fabrications are tailor-made, fully-welded, watertight structured wall chambers to suit project-specific requirements. Health and Safety benefits become apparent during handling and installation, due to our fabrications' strong but light in weight nature. In addition, off-site construction ensures uncompromised, high quality products being delivered to site ready-to-install, reducing installation time and costs.



RIDGISTORMCheck Vortex Flow Control Chambers

Data Sheet

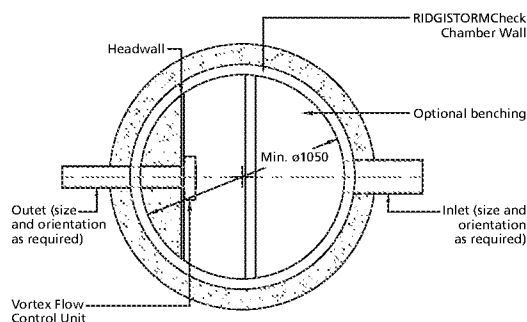
PRODUCT INFORMATION

P2

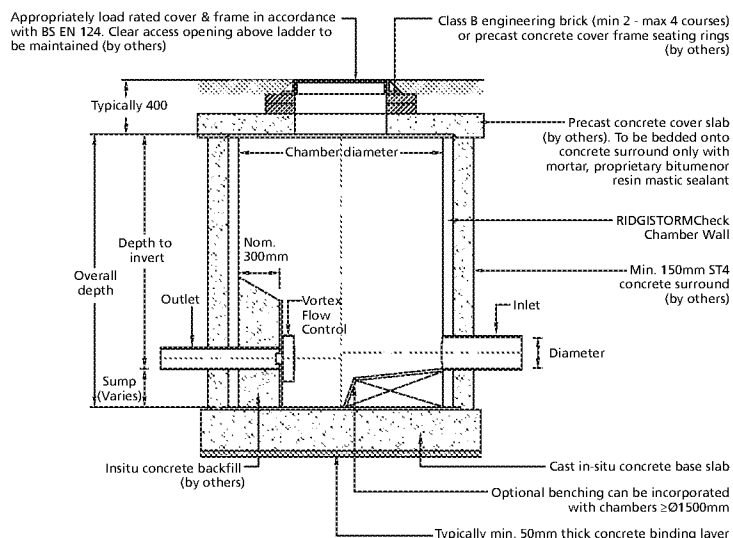
ISSUE 2 - MAR 2019

Non-Bypass Chamber

For sites where discharge rates must be guaranteed to not exceed a prescribed limit(s).

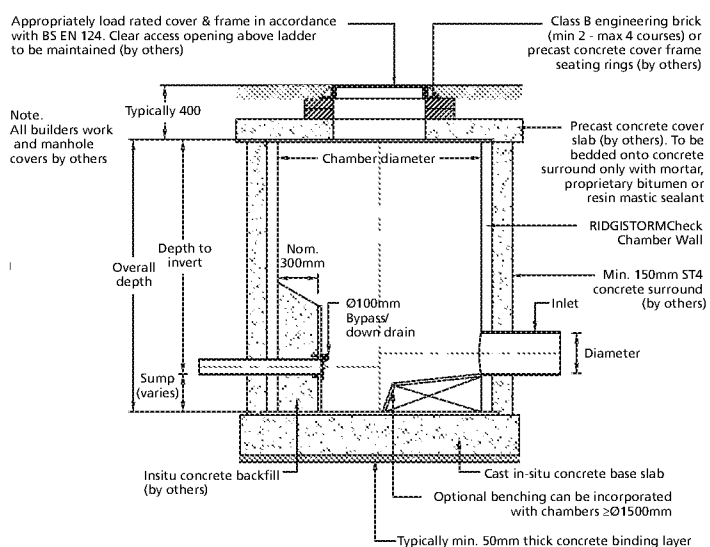
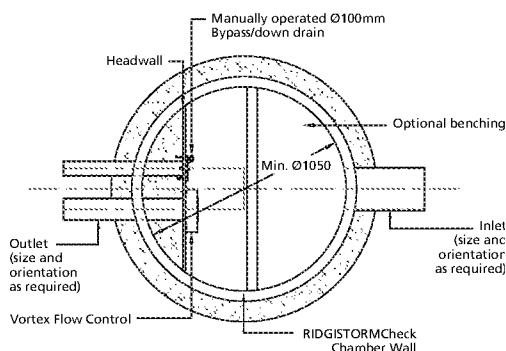


Note:
All builders work and
manhole covers by others



Manual Bypass Design

The manual bypass design offers a bypass the ability to flow control device to facilitate maintenance. Manually operated from the surface, the activation of the bypass system opens a door in the head wall allowing water in the chamber to drain down via the bypass pipe.



For further information please contact our Technical Team on +44 (0) 1509 615100 or download our CAD Standard Details from our website www.polypipe.com/civils-technical-hub

All descriptions and illustrations in this publication are intended for guidance only and shall not constitute a 'sale by description'. All dimensions given are nominal and Polypipe may modify and change the information, products and specifications from time to time for a variety of reasons, without prior notice. The information in this publication is provided 'as is' on March 2019. Updates will not be issued automatically. This information is not intended to have any legal effect, whether by way of advice, representation or warranty (express or implied). We accept no liability whatsoever (to the extent permitted by law) if you place any reliance on this publication you must do so at your own risk. All rights reserved. Copyright in this publication belongs to Polypipe and all such copyright may not be used, sold, copied or reproduced in whole or part in any manner in any media to any person without prior consent. Polypipe is a registered trademark of Polypipe. All Polypipe products are protected by Design Right under CDPA 1988. Copyright © 2019 Polypipe. All rights reserved.

Polypipe Civils

Charnwood Business Park, Loughborough, Leicestershire LE11 1LE

 **Polypipe**

Application Ref: FG/203/18/PL

Site Address

Ferring Country Centre
Rife Way
BN12 5JZ

Description of Development

Variation of condition 2 imposed under FG/31/17/PL relating to approved plans (new building more central to shop & ticket office closer to activities they serve).

Ferring Country Centre
Rife Way
BN12 5JZ

Dear Anita

Re Condition 4.

We are pleased to enclose the full details of the surface water drainage from the proposed development which have been agreed with the drainage engineers Paul Cann and Laura Gibbons.

We trust you will find these details adequate seek release of Condition 4 of the planning permission.

We respectfully request your earliest attention to this matter as the client is anxious to commence works during the summer months.

Should you require any further information we will be pleased to provide it.

Regards

Gwyn Cheesmur