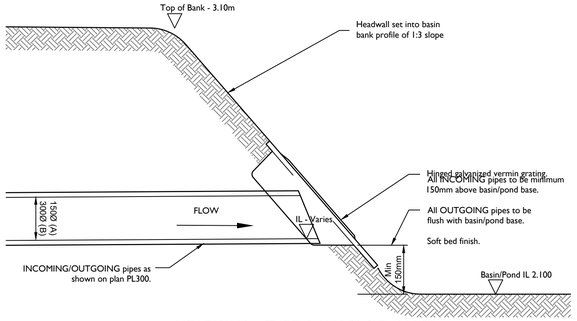
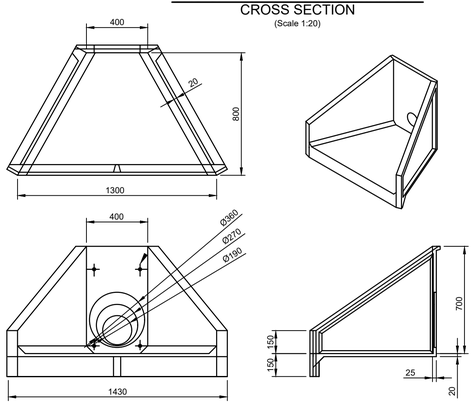


HEADWALL - TYPE A (150Ø) & B (300Ø)
GRC GP - INCOMING TO BASIN/POND
CROSS SECTION

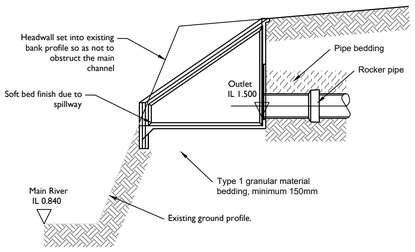
(Scale 1:20)

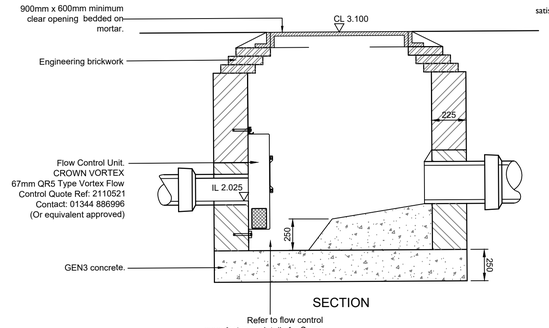


HEADWALL - TYPE C (150Ø)
H3C - OUTLET FROM BASIN/POND & OUTFALL TO MAIN RIVER
CROSS SECTION

(Scale 1:20)

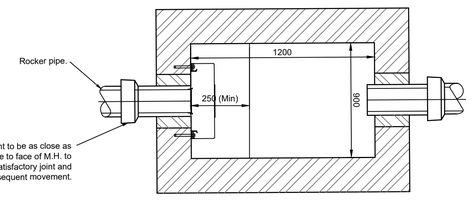
Althon H3C Headwall Range to be utilised.
Precast concrete headwall, with 150mm diameter outfall pipe. Pipe invert levels as per drainage strategy design drawings and calculations.
The Althon H3C Headwall Range comes with optional pre-fitted flap valve, or optional pre-fitted Grating, if deemed necessary. Refer to Manufacturer's Guidance for more details.





SECTION

Refer to flow control manufacturers details for Sump dimension.



PLAN

ENGINEERING BRICK - FLOW CONTROL
MANHOLE S9 DETAIL

(Scale 1:20)

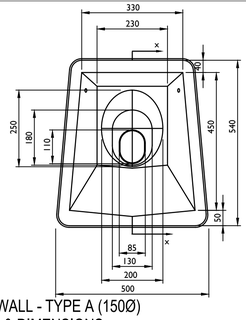
Althon GRC GP Small Specification Information

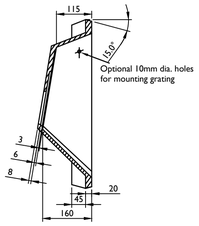
A one piece glass reinforced headwall with an opening to suit 80mm diameter pipes and knockout webs to enlarge to 100mm and 150mm diameter pipes.

Althon GRC GP Small Headwall Installation

Dig out sufficiently to allow headwall flanges to finish flush with the batter. Take outfall pipe (minimum length 1.5m rigid impervious pipe) and slide it through headwall so it protrudes approximately 50mm.Make a good connection with the land drain and seal by returning approximately 150mm of soil into trench and consolidating.Unravel the string and draw the anchor back along the trench as the rest of the backfilling is completed.

Material: Glass Reinforced concrete
Weight approximately 11.5kg
All dimensions in mm





CROSS SECTION

GRC HEADWALL - TYPE A (150Ø)
ELEVATION & DIMENSIONS

(1:10)

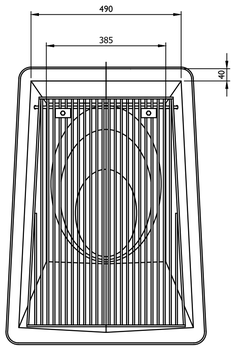
Althon GRC GP Large Specification Information

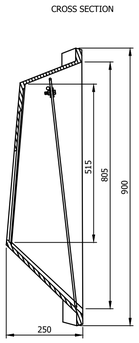
A one piece glass reinforced headwall with an opening to suit 150mm diameter pipes and knockout webs to enlarge to 225mm and 300mm diameter pipes.

Althon GRC GP Large Headwall Installation

Dig out sufficiently to allow headwall flanges to finish flush with the batter. Take outfall pipe (minimum length 1.5m rigid impervious pipe) and slide it through headwall so it protrudes approximately 50mm.Make a good connection with the land drain and seal by returning approximately 150mm of soil into trench and consolidating.Unravel the string and draw the anchor back along the trench as the rest of the backfilling is completed.

Material: Glass Reinforced concrete
Weight approximately 30kg
All dimensions in mm



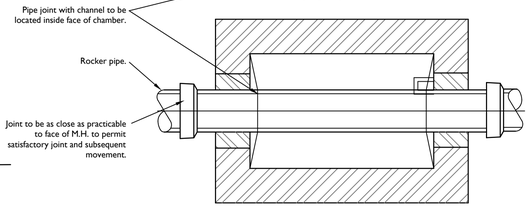


CROSS SECTION

GRC HEADWALL - TYPE B (300Ø)
ELEVATION & DIMENSIONS

(1:10)

SECTION A-A



PLAN

SECTION B-B

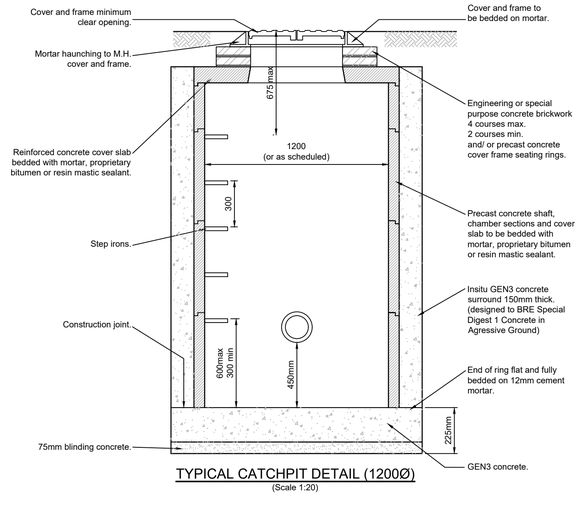
Chamber width should be increased for pipes larger than 225mm dia. to give 225mm benching each side with the brickwork corbelled down to suit the cover.

Precast concrete rectangular manhole sections 1200x750 surrounded in 150mm concrete fitted with a 600x600 cover slab will be permitted on the approval of the engineer. Precast units to be ARC Manhole Units or equivalent approved.

BRICK CHAMBER (1200x675)

(Scale 1:20)

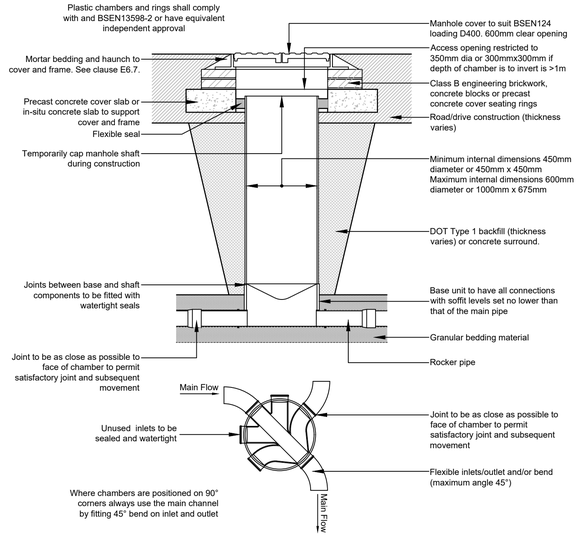
Depth from cover level to soffit of less than 1.5m.



TYPICAL CATCHPIT DETAIL (1200Ø)

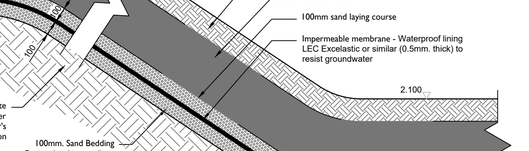
(Scale 1:20)

Plastic chambers and rings shall comply with and BSEN13598-2 or have equivalent independent approval



TYPICAL ACCESS CHAMBER DETAIL - TYPE 3

3m maximum depth to from cover to pipe soffit. (non entry) vehicle loading
(Scale 1:20)

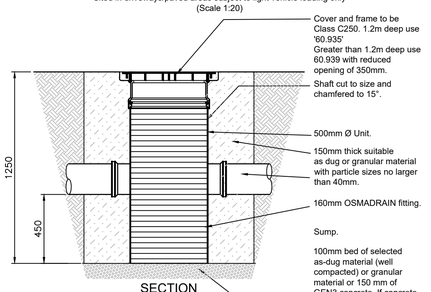


ALTERNATIVE TOP DETAIL - TYPE 3

Sited in domestic gardens subject to pedestrian loading only
(Scale 1:20)

ALTERNATIVE TOP DETAIL - TYPE 3

Sited in driveways/paved areas subject to light vehicle loading only
(Scale 1:20)



SECTION

POLYPROPYLENE SHALLOW SILT TRAP DETAIL (500Ø)

(Scale 1:20)

Depth to invert 1.25m (standard unit)
Silt Traps installed greater than single unit depth to be extended using Wavin inspection chamber shaft units.

BASIN/POND LINING/ANCHOR DETAIL
CROSS SECTION

(Scale 1:20)

1:20@ A1
1:40@ A3
0 200 400 600 800 1000 1200 1400 1600 1800 2000 mm

1:10@ A1
1:20@ A3
0 100 200 300 400 500 600 700 800 900 1000 mm

NOTES

A1

1. This drawing is to be read in conjunction with all other Bright Plan Civils drawings, and with all relevant Architect's and Engineer's drawings and specification. Any discrepancies found are to be reported immediately to the Engineer.
2. Bright Plan Civils accepts no responsibility for inaccuracies in data provided by third parties such as topographic surveys or Ordnance Survey mapping.
3. Do not scale, work to figured dimensions only. All dimensions are in millimeters unless noted otherwise and all levels are in metres from the topographic survey datum.
4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain. The main contractor is responsible for checking all information on site prior to work commencing and taking due care whilst undertaking the works.
5. All dimensions to be checked on site. All details and dimensions relating to sub-contractors work must be checked and agreed between the sub-contractor or supplier and the general contractor.
6. The electronic information from this drawing can not be guaranteed as dimensionally drawn exact. Figured dimensions must be used for setting out and detailing. Bright Plan Civils logos and company information must be removed from copies if information is re-used.

FOR APPROVAL

This map is based on or reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationary Office (c) Crown Copyright. This drawing is based upon Ordnance Survey mapping - BPC accept no liability for any inaccuracies with the data. (c) Crown Copyright 2018, All rights reserved, Licence number 100022432

Rev.	Amendments	Date
A	General update	11/05/2021
-	Original Issue	13/01/2021

BRIGHT PLAN CIVILS
Transport Planning and Infrastructure Design Consultants
2 West Barn, Norton Lane, Chichester, West Sussex PO20 3AF
Tel: 01243 210418
www.bpcivils.co.uk enquiries@bpcivils.co.uk

Drawing Status: FOR APPROVAL

Client: Paul Voller

Project: Tars Farm House, Church Lane, Barnham, PO22 0DB

Drawing Title: Sht 2 Construction Details

Scale	Date	Drawn By	Checked By
As Shown	05/02/21	MJA	MJA

Drawing No. D1946-PL401 Rev. A

ARUN DISTRICT COUNCIL BN43 5DSOC