

Plan View Of Cover Slab

PRELIMINARY
SUBJECT TO APPROVAL

- ALL DIMENSION IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DESIGN DRAWINGS AND OTHER INFORMATION.
- ALL MANHOLE COVERS AND FRAMES TO BE IN ACCORDANCE WITH 4.2.30 OF THE CIVIL ENGINEERING SPECIFICATION.
- ALL LIFTING EYES IN MANHOLE CHAMBER SECTIONS AND COVER SLABS TO BE POINTED.
- REINFORCED COVER SLAB, WEIR WALL AND MANHOLE BASE TO BE DESIGNED BY CLIENTS STRUCTURAL ENGINEER.
- ALL WALL DIMENSION SHOWN ARE SUBJECT TO DETAILED DESIGN BY CLIENTS STRUCTURAL ENGINEER.
- MANHOLE FLOATATION TO CHECKED BY CLIENTS STRUCTURAL ENGINEER.
- IF HIGH GROUND WATER LEVEL IS ENCOUNTERED, THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO DEAL WITH SUCH GROUND WATER BOTH AT SURFACE AND BELOW SURFACE DURING THE CONSTRUCTION OF THE DRAINAGE NETWORK.
- ALL JOINTS BETWEEN PIPES AND CONCRETE SHALL BE WATER TIGHT.
- ROCKER PIPES SHALL BE 600mm IN LENGTH OR 1.5 X D, WHICHEVER IS GREATER.
- TOP OF MANHOLE ELEVATION NOTED ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY THE ACTUAL ELEVATIONS AND SHALL ADJUST THE MANHOLES TOPS ACCORDINGLY TO BE FLUSH WITH THE ADJACENT ASPHALT PAVEMENT.
- CONCRETE RINGS NOT TO BE CUT. EITHER MANHOLE RING TO BE CONSTRUCTED DEEPER TO SUIT OR ALTERNATIVE BRICK MANHOLE TYPE TO BE USED.

FOR STEPS SEE SECTION E2.33 (STW DCG)

FOR HYDROBRAKE UNIT SPECIFIC DETAILS PLEASE REFER TO THE HYDRO-INTERNATIONAL MANUFACTURE DETAILS

The Surface Water system has been designed for the use of a Hydrobrake International Flow Control Device and any deviation from this device is to be approved via written confirmation from Residential & Commercial Engineering Ltd.

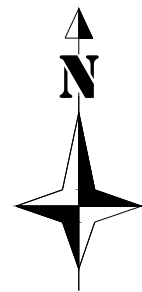
MANHOLE DETAIL S16 - HYDROBRAKE MH

- OTHER TYPES OF HYDROBRAKES HAVE DIFFERENT SUMP CONFIGURATION, ALWAYS CONSULT MANUFACTURER.
- THE WARNING SIGNS ARE TO BE 40MM HIGH RED LETTERING ON A WHITE PLASTIC BASE. THE PLASTIC BASE DIMENSIONS ARE TO BE APPROX. 300MM X 6MM
- THE BASE IS TO BE RESISTANT TO ATTACK BY SEWAGE.
- THE WARNING SIGN IS TO BE MOUNTED ON A REMOVEABLE SAFETY GRID AVAILABLE FROM COVER MANUFACTURER
- THE SIGN IN THESE MANHOLES ARE TO READ "CAUTION - HYDROBRAKE LOCATED HERE"
- A SIGN MUST BE FITTED IN THE UPSTREAM MH TO READ "CAUTION - HYDROBRAKE DOWNSTREAM"
- A SIGN MUST BE FITTED IN THE DOWNSTREAM MH WHICH READS "CAUTION - HYDROBRAKE UPSTREAM"
- ANY DIFFERENCE BETWEEN ACTUAL AND DRAWN DETAILS IS TO BE REPORTED IMMEDIATELY

Rocker Pipe Table
(Table E13 from DCG)

Table E 13	
Nominal Diameter (mm)	Effective Length (m)
150 to 600	0.6
601 to 750	1.0
over 750	1.25

HYDROBRAKE TECHNICAL SPECIFICATION		
DESCRIPTION	SHE-0059-2500-2700-2500 - HYDROBRAKE OPTIMUM	
CONTROL POINT	HEAD (m)	FLOW (l/s)
Design Point	2.700	2.500
Flush-Flo	0.259	1.472
Kick-Flo	0.531	1.195
Mean Flow Over Head Range		1.804
THE USE OF ANY OTHER FLOW CONTROL WILL INVALIDATE ANY DESIGN BASED ON THIS UNIT		



The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work starts. The Contractor is to comply in all respects with current Building Legislation, British Standard Specifications, Building Regulations, Construction (Design & Management) Regulations, Party Wall Act, etc. whether or not specifically stated on this drawing. This drawing must be read with and checked against any structural, geotechnical or other specialist documentation provided. This drawing is not intended to show details of foundations, ground conditions or ground contaminants. Each area of ground relied upon to support any structure depicted (including drainage) must be investigated by the Contractor. A suitable method of foundation should be provided allowing for existing ground conditions. Any suspect or fluid ground, contaminants on or within the ground, should be further investigated by a suitable expert. Any earthwork constructions shown indicate typical slopes for guidance only & should be further investigated by a suitable expert. Where existing trees / structures are to be retained they should be subject to a full specialist inspection for safety. All trees are to be planted so as to ensure they are a minimum of 5 metres from buildings. A suitable method of foundation is to be provided to accommodate the proposed tree planting. Residential & Commercial Engineering Limited do not accept any responsibility for any losses (financial or otherwise) to any Client or third party arising out of the Clients (be it Developer or Contractor but not limited thereto) non-compliance with afore mentioned provisos. © This drawing is the property of Residential & Commercial Engineering Limited and may not be copied or used for any purpose other than that for which it is supplied without the express written authority of Residential & Commercial Engineering Limited.

B	Updated in accordance with comments received from STW	20.04.22	RH	#
A	Drawing revised in line with Latest engineering design.	05.10.21	JS	SM
Rev	Description	Date	Drawn	Check

Revisions:



Drawing Status:
Subject to the following approvals:
S16: Subject to Technical Approval from Dorsetshire CC Highways
S16A: Subject to Technical Approval from Dorset Trunk Water
S16B: Developer to complete application/approval with STW
S16C: Subject to Technical Approval from Dorset Trunk Water

Client:
FLETCHER HOMES

Project:
ROSEMARY LANE,
LEINTWARDINE

Title:
CONTROL CHAMBER CONSTRUCTION
DETAILS - S16

Job Number.
RACE/FH/GMR
Drawing No.
ENG_280
Revision. 8

Scale: NTS @ A1
Date: JULY '21
Drawn by: JS
Checked by: SM

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