



HYDROBRAKE DETAILS	
MH. No.	S17
TYPE	MD-SHE-0121-7600-1500-7600
DESIGN HEAD (m)	1.50
MAX. FLOW (litres/sec)	7.60
ORIFICE DIA. (mm)	121
SURCHARGED OUTFALL PIPE	Y

HYDROBRAKE MANHOLE S17 TO
LIMIT PASS FORWARD FLOW
TO 7.6 L/SEC FOR 1 IN 30YR RP
AND 12.8 L/SEC FOR 1 IN 100YR
RP + 30%CC

PRIVATE FOUL WATER
PUMPING STATION TO
CATER FOR PLOTS
113 - 141

BRIDGE DESIGN BY OTHERS
LEVELS IN THIS AREA
SUBJECT TO CHANGE ON
COMPLETION OF BRIDGE

INTERPOLATED INVERT
ON EXISTING 1500 FWS
= 182.864 TBC

HYDROBRAKE MANHOLE S6 TO
LIMIT PASS FORWARD FLOW
TO 8.0 L/SEC FOR 1 IN 30YR RP
AND 12.7 L/SEC FOR 1 IN 100YR
RP + 30%CC

HYDROBRAKE DETAILS	
MH. No.	S6
TYPE	MD-SHE-0126-8000-1400-8000
DESIGN HEAD (m)	1.40
MAX. FLOW (litres/sec)	8.00
ORIFICE DIA. (mm)	126
SURCHARGED OUTFALL PIPE	Y

ALL WORKS WITHIN 8.0m OF
RIVER BANK TOP WILL REQUIRE
ENVIRONMENT AGENCY
CONSENT

PRIVATE CELLULAR STORAGE
TO CATER FOR EVENTS UP TO
AND INCLUDING 1% AEP + 30%
CC WITH NO SURFACE
FLOODING
CONNECTION TO RIVER FROM
CELLULAR STORAGE VIA
HYDROBRAKE CONTROL TO
LIMIT PASS FORWARD FLOW
TO 5.0 L/SEC FOR 1 IN 30YR RP
AND 7.80 L/SEC FOR 1 IN 100YR
RP + 30%CC
SIZE 15m x 5m x 800mm DEEP
INVERT LEVEL = 185.20m

CONTRACTOR/CLIENT SHOULD NOTE THE
EXISTENCE OF EXISTING BURIED PLANT
AND/OR OVERHEAD POWER CABLE(S)
BEFORE WORK COMMENCES CONTRACTOR MUST
UNDERTAKE RISK ASSESSMENT AND PROVIDE
METHOD STATEMENT FOR WORKING IN THIS
AREA IN ACCORDANCE WITH HSE AND POWER
SUPPLIERS GUIDELINES TO SATISFACTION
OF THE PRINCIPLE DESIGNER

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HYDROBRAKE DETAILS	
MH. No.	CELLULAR STORAGE
TYPE	MD-SHE-0100-5000-1350-5000
DESIGN HEAD (m)	1.35
MAX. FLOW (litres/sec)	5.00
ORIFICE DIA. (mm)	100
SURCHARGED OUTFALL PIPE	Y

- GENERAL
- All adoptable sewers and associated works are to comply fully with "Sewers for Adoption" 6th Edition
 - All highway works to be to adoptable standards and to comply fully with the local Authority specification.
 - All private drainage works are to comply fully with part H of the Building Regulations
 - All existing invert levels to be checked by the Contractor at the start of works and any discrepancies notified to REFA. All levels are based on topographical survey information provided by others.
 - All materials to bear the relevant B.S. Kitemark and comply fully with the specifications. All concrete & concrete products must use Sulphate resistant cement (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur)
 - All opening notices etc. as required under highways acts etc. are to be obtained prior to commencement of works. All works are to be inspected by L.A., NHBC or Relevant Water Authority as applicable.

C.D.M. REGULATIONS 2015

In line with the above regulations we are obliged to inform the Client of their responsibilities under section CDM 15/1, and residual risks that may be encountered in the construction of these works. All design work has been carried out with Health and Safety aspects given full consideration. Wherever possible risks have been eliminated from the design, however due to the very nature of this type of work it is not possible to remove all the risks from the design. We would also respectfully remind the Client of his obligations to take all reasonable steps in ensuring that only competent Contractors who have a valid safety policy are employed. They should also provide satisfactory responses at tender stage as to the manner in which they will deal with the elements of risk involved in this type of work and in particular those highlighted by REFA below:-

- Support / treatment for ALL excavation work.
 - Guarding to edges of excavations to prevent people, materials and vehicles falling into excavation.
 - Guarding of excavations outside working hours to prevent unauthorised access.
 - Undermining to adjacent roads or structures.
 - Confined space operations.
 - Dealing with existing services.
 - Traffic management on existing highways.
 - Procedure to be followed in event of accident or emergency.
 - Method of working where contaminated ground is present on site.
 - Confirmation will be required that all operatives are adequately trained, copies of relevant training certificates to be supplied.
- The above list is by no means exhaustive but it does highlight operations that present a risk to contractors and the general public. For clarification on any item please contact REFA.

Revision details			
Rev	Revision details	Rev By	Date
C	FURTHER REVISION BACK TO LAYOUT REV G	JAR	20.05.19
B	REVERTED TO LAYOUT REV G	JAR	24.04.19
A	DRAINAGE REDESIGN	JAR	20.02.19

worksafe consultant	SSIP	SAFETY SCHEMES IN PROCUREMENT
www.smasitd.com		

Drawing Stage	Drawing Status
Draft	Comments
Issued	Information
	Approval
	Tender
	Construction
	As Built

Client
WAINHOMES LIMITED

Job title
FORGE ROAD CHINLEY PHASE 2

Drawing title
SURFACE WATER IMP AREA PLAN

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Date	Scale	Drawn
10.1.18	1/500	GMH

DRAWING No	17103/12/4	Rev
		C

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