



- 675X 675MM SQUARE OPENING DUCTILE IRON MANHOLE COVER AND FRAME TO BSEN 124 GRADE D400 BEDDED ON CLASS 1 :3 CEMENT MORTAR BED AND HAUNCH
- A1 1240X 675MM SQUARE OPENING DUCTILE IRON MANHOLE COVER AND FRAME TO BSEN 124 GRADE D400 BEDDED ON CLASS 1 :3 CEMENT MORTAR BED AND HAUNCH
- B MIN TWO COURSES OF CLASS B SOLID QUALITY ENGINEERING BRICKWORK TO BS3921 LAID IN ENGLISH BOND ON CLASS 1 MORTAR TO BS4721 OR EQUIVALENT PCC RAISING PIECES
- C 200MM THICK PCC CONCRETE COVER SLAB TO BSEN 1917 OR ENGINEER DESIGNED INSITU ALTERNATIVE
- D POLY PROPELENE ENCAPSULATED DOUBLE STEP RUNGS TO CESWI SP CL 2.68
- E TYPE MD SHE AS SCHEDULE HYDRO-BRAKE FLOW CONTROL FLOW CONTROL WITH PIVOTING BY-PASS DOOR AND ROOF MOUNTED STEEL OPERATING ROPE TO BE FITTED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS
- F 150MM DIA HAM BAKER PENSTOCK OR SIMILAR APPROVED WITH OPERATING ROD TO SURFACE BOX. OPERATING ROD TO BE POSITIONED SO THAT STOP TAP COVER CANNOT BE CLOSED WITH VALVE IN OPEN POSITION
- G 225MM THICK GRADE RC40 CONCRETE STRUCTURAL FLOOR USING SULPHATE RESISTING CEMENT. MEMBERS TO BE REINFORCED TO STRUCTURAL ENGINEERS DETAILS USING STEEL FABRIC TO BS 4483 OR STEEL BARS TO BS4482
- H INSITU CONCRETE BENCHING IN C20 CONCRETE TO BS 5328 FINISHED WITH 20MM THICKNESS OF DENSE GRANOLITHIC CONCRETE TOPPING TO BS8204. BENCHING SLOPE TO BE 1 IN 10 TO 1 IN 30
- I RAMP DOWN TO FORM SUMP 450mm DEEP
- J 150MM WIDE BYPASS CHANNEL
- K 150MM SQUARE STOP TAP COVER HEAVY DUTY NON ROCKING HINGED SINGLE TRIANGULAR GREY IRON WITH 100MM DIAMETER CLEAR OPENING, BLACK COATED, NOT INDICATED ON DRAWING - EXACT POSITION TO BE DETERMINED ON SITE TO SUIT ACTUAL POSITION OF PENSTOCK SPINDLE. CONC SLAB TO BE DIAMOND CORED THROUGH AND STOP COVER POSITIONED ON SITE TO SUIT
- L 450MM DIAMETER PCC INLL PIPE TO BSEN 1916
- M 300 DIA VC OUTLET PIPE

NOTE - ALL CUSTOM BUILT IRON WORK TO BE HOT DIP GALVANIZED PRIOR TO FINAL FIXING

ANY CONTRACTOR PREFERRED FLOW CONTROL PRODUCT MUST BE IN LINE WITH THE DEVELOPERS SPECIFICATION.
IF AN ALTERNATIVE IS PERMISSIBLE, STEPHEN DAYKIN CONSULTING SHOULD BE NOTIFIED TO ANALYSE THE PRODUCTS HYDRAULIC PERFORMANCE.

HYDROBRAKE DIMENSIONS TO BE CHECKED AGAINST MANHOLE OPENING SIZES PRIOR TO PURCHASING.

STEPHEN DAYKIN CONSULTING'S PREFERRED CONSTRUCTION SEQUENCE IS TO INSTALL FLOW CONTROL DEVICE IN-SITU, NOT TO RETRO-FIT PRODUCT TO ENCLOSED FINISHED MANHOLE.

MANHOLE TO BE FITTED WITH WARNING SIGN READING CAUTION- HYDROBRAKE LOCATED HERE. THE SIGN SHALL BE 40MM HIGH RED LETTERING ON A WHITE PLASTIC BASE APPROXIMATELY 300MM X 300MM X6MM. THE BSE IS TO BE RESISTANT TO SEWERAGE ATTACK. THE SIGN IS TO BE FITTED TO A REMOVABLE SAFETY GRILLE AVAILABLE FROM COVER MANUFACTURER

A SIGN MUST BE FITTED IN THE UPSTREAM MANHOLE TO READ CAUTION- HYDROBRAKE DOWNSTREAM

A SIGN MUST BE FITTED TO THE DOWNSTREAM MANHOLE TO READ CAUTION HYDROBRAKE UPSTREAM

MANHOLE NUMBER	INVERT LEVEL	TOP WATER LEVEL	COVER LEVEL	DIMENSION A	DIMENSION B	DIMENSION C	DIMENSION D	HYDROBRAKE UNIT
S415	107.95	109.224	109.774	0.47	0.485	1.274	2.534	MD SHE0227 2900 1450 2900
S312	107.05	108.573	109.123	0.25	0.395	1.523	2.693	MD SHE0117 7000 1450 7000
S209	106.85	108.244	108.794	0.29	0.425	1.394	2.594	MD SHE0138 1000 1550 1000
S107	106.45	107.44	107.99	0.22	0.365	0.99	2.13	MD SHE0102 5000 1250 5000

SDC dwg no. E970-46

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WARNING TO PURCHASERS. Property Misdescriptions Act 1991
Images and site layout are intended for illustrative purposes only and should be treated as general guide only.

Site layout including parking arrangements, [social/ affordable housing, community buildings, play areas and public open spaces] may change to reflect changes in the planning permission for the development. Please speak to your solicitor to whom full details of any planning consents including layout plans will be available.

Rev	Description	Initial	Date

SPREADSHEET DATA AND HYDRO DOWNLOADS LOCATED IN P25/E970/OFFICE/SURFACE WATER MANAGEMENT/HYDROBRAKES

SURFACE_WATER_CONTROL_CHAMBERS NORMANDY_WAY_HINCKLEY



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