

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL
RELEVANT DESIGN DRAWINGS AND OTHER INFORMATION

NOTES:

- 1) LARGER SIZES MAY BE REQUIRED FOR MANHOLES (IN BENDS OR WHERE THERE ARE JUNCTIONS).
- 2) MAY BE REDUCED TO 675 BY 675 WHERE REQUIRED BY HIGHWAY LOADING CONSIDERATIONS, SUBJECT TO A SAFE SYSTEM OF WORK BEING SPECIFIED.
- 3) NOT APPLICABLE DUE TO WORKING SPACE NEEDED.
- 4) MINIMUM HEIGHT OF CHAMFER IN SHAFED HANDLE 2M FROM BENCHING TO UNDERSIDE OF REDUCING SLAB.
- 5) MIN CLEAR SPACE BETWEEN LADDERS OR STAIRS AND THE OPPOSITE FACE OF THE SHAFT SHOULD BE APPROXIMATELY 900MM.
- 6) WINDOW ONLY - NO STEPS OR LADDERS, PERMANENT OR REMOVABLE.
- 7) MINIMUM SIZE OF THE SHAFT FOR A REMOVABLE SERVING A SOWER (SEE BRAIN SERVING MORE THAN ONE PROPERTY) SHOULD BE 1200 MM X 675 MM RECTANGULAR OR 1200 MM DIAMETER.

GENERAL REQUIREMENTS

COPIES OF DELIVERY NOTES FOR CONCRETE AND PIPE BEDDING WILL BE REQUIRED INTERMITTENTLY AS THE JOB PROGRESSES. ALL OTHER COMPONENT UNITS MUST BE KITE-MARKED.

ALL CHAMBERS WITH PIPE SIZES 150MM, 225MM, 300MM
MUST HAVE SWEEPED BENDS AND
CHANNELS. ALL BENCHING TO BE A MINIMUM 40MM THICK
GRANOLITHIC CONCRETE TROWELLED TO A SMOOTH FINISH.

IRONWORK IN MANHOLES

IF THE CHAMBER IS LESS THAN 3M DEEP WE REQUIRE DOUBLE ENCAPSULATED STEP RUNGS UNLESS OTHERWISE APPROVED. IF THE CHAMBER IS OVER 3M DEEP WE REQUIRE **HOT DIPPED GALVANISED MILD STEEL LADDERS**. THERE MUST BE 900MM BETWEEN LADDER AND BACK OF SHIELD. DEPTH IS MEASURED FROM FINISHED COVER LEVEL TO THE TOP OF THE BENCHING. THE MAXIMUM DISTANCE BETWEEN COVER LEVEL AND THE FIRST STEP MUST BE 675MM.

MIN 2 MAX 4 COURSES UNDER FRAME AND MUST BE SOLID CLASS B ENGINEERING BRICKS OR CONCRETE SPACING RINGS NEATLY POINTED UP. ENGLISH BOND TO BE USED ON ALL BRICKWORK. SULPHATE RESISTING CEMENT MUST BE USED IN ALL LOCATIONS.

COVER SLAB OPENING, COVER AND FRAMES MUST BE 675 X 675 UNLESS OTHERWISE APPROVED.
DN400 SHALL BE USED AT ALL LOCATIONS. ON SPINE ROADS MUST BE 150MM DEEP. ON RESIDENTIAL CUL-DE-SACS 100MM MAY BE USED SUBJECT TO APPROVAL. FRAMES FOR MANHOLE COVERS SHOULD BE BEDDED IN A POLYESTER RESIN BEDDING MORTAR IN ALL SITUATIONS WHERE COVERED ARE USED. MANHOLE COVERS SHALL BE COVERED WITH A

'INFILL' TYPE COVERS SHOULD NOT BE USED

IN BLOCK PAVED AREAS 150MM DEEP FRAMES MUST BE USED (IN ACCORDANCE WITH DESIGN AND CONSTRUCTION GUIDANCE P22)

THEY SHOULD BE LAID TO THE SAME STANDARD AS PUBLIC SEWERS. THEY SHOULD HAVE NO CHANGES OF LINE OR GRADIENT BETWEEN THE SEWER AND THE DEMARCATION CHAMBER. THEY SHOULD HAVE AN ADAPTABLE MANHOLE AS THE DEMARCATION CHAMBER UNLESS THERE IS ONLY ON PROPERTY WHEN A PLASTIC CHAMBER TO BS EN 13598-2:2009 IS ALLOWED. LOCKABLE B125 AND A15 COVERS MAY BE ALLOWED IN CERTAIN LOCATIONS SUBJECT TO APPROVAL. THE DEMARCATION SHOULD BE INSIDE THE BOUNDARY OF THE PROPERTY, NO MORE THAN 1M INSIDE THE BOUNDARY, PREFERABLY IN THE DRIVEWAY AND NOT IN

A SECTION 106 APPLICATION TO SEVERN TRENT WATER MUST BE COMPLETED FOR THE RE USE OF ANY EXISTING CONNECTION INTO THE EXISTING PUBLIC SEWERAGE SYSTEM OR THE CONSTRUCTION OF A NEW CONNECTION.

AN APPLICATION WILL BE REQUIRED FOR THE FOUL AND SURFACE WATER DRAINAGE ARRANGEMENTS AND THIS SHOULD BE COMPLETED BY THE CONTRACTOR.

ALL SEWERS ARE TO COMPLY WITH THE DESIGN AND CONSTRUCTION GUIDE AND SEVERN TRENT WATER REQUIREMENTS

WHERE PIPE CROSSING, PLASTIC MEMBRANE TO BE USED FOR PROTECTION TO ELIMINATE CHANCES OF CROSS CONTAMINATION

PIPES OF DIFFERENT DIAMETERS ENTERING MANHOLES
SHOULD BE INSTALLED WITH SOFFITS AT THE SAME LEVEL

THE OUTSIDE OF THE SEWER SHOULD BE IN VEHICLE CARRIAGEWAY (NOT FOOTPATH) AND BE AT LEAST 1m FROM KERB LINE. THE OUTSIDE MANHOLES SHOULD BE AT LEAST 0.5m FROM THE KERB LINE.

TREES ON THE DRAWING ARE EXISTING OR PROPOSED AND ADHERE TO B.2.3 (PAGE 33) OF SFA6. THE TREES SPECIFIED WILL BE AS PER SEWERS FOR ADOPTION AND POSITIONED. WHERE CLEARANCES WITH VEGETATION IS NOT ACHIEVABLE, APPROPRIATE ROOT PROTECTION WILL BE PROVIDED

THE MATERIALS TO BE USED ARE SUITABLE FOR THE GROUND CONDITIONS

ANY POND BED LINING AND / OR BANK STABILISATION METHODS REQUIRED FOR BALANCING POND TO BE ASSESSED BY STRUCTURAL ENGINEER

IMPORTANT:
HEADWALLS WILL REQUIRE THE ENVIRONMENT AGENCY'S

WATER RESOURCES ACT 1991 BEFORE ANY
CONSTRUCTION TAKES PLACE

HEADWALLS TO BE PRE-CAST CONCRETE. PLEASE REFER
TO ALTHON DRAWINGS FOR DETAILS

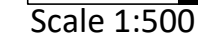
<u>FILE WATER</u>	
Manhole	
Pipe line	
Pipe line to be adopted by others	
Rising Main	
<u>SURFACE WATER</u>	
Manhole	
Pipe line	
Pipe line to be adopted by others	
Headwall	

PIPES 150mm - 300mm DIA :-

SURFACE AND FOUL WATER PIPES ARE TO BE EXTRA STRENGTH VITRIFIED CLAY WITH FLEXIBLE MECHANICAL JOINTS. PIPES MUST COMPLY WITH THE RELEVANT REQUIREMENTS OF BS EN 295-1:2013 AND BS 65:1991 (surface water pipes only).

PIPES > 300mm:-

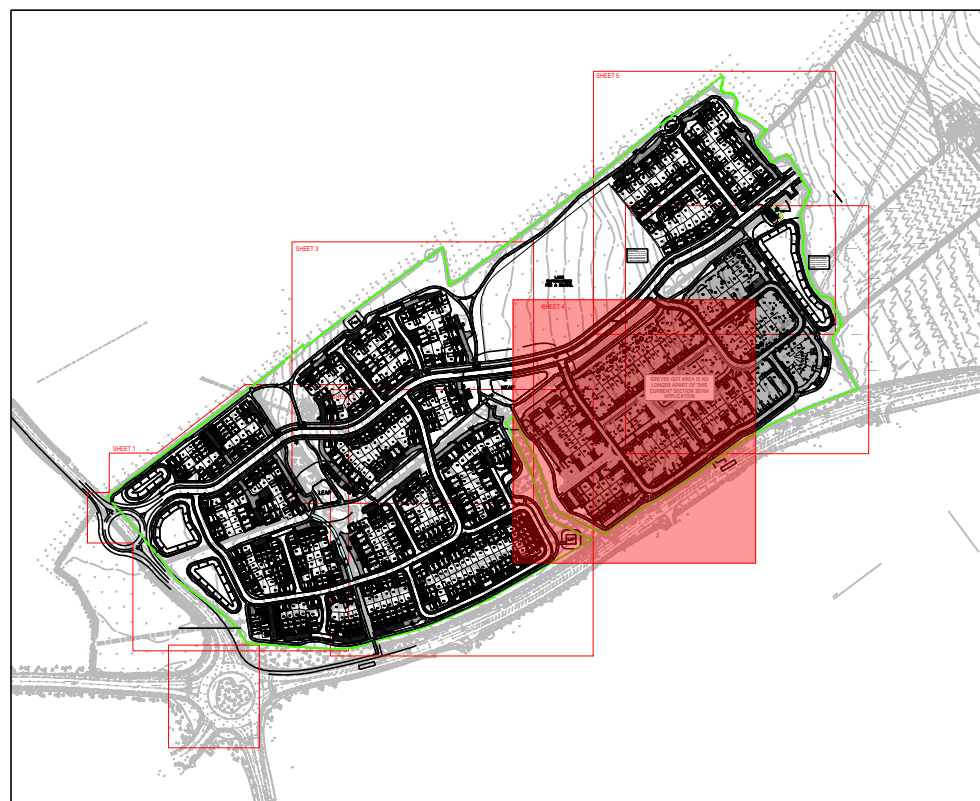
DIA SURFACE AND FOUL WATER PIPES ARE TO BE HIGH STRENGTH CONCRETE. CONCRETE PIPES AND FITTINGS WITH FLEXIBLE JOINTS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS 5911-1:2002.



FCC Manhole to accommodate future school. Restricted to 8.7L/S. Flooding shown in storm calculations of 760m3. Storage will need to be accommodated within the School drainage designs

**GREYED OUT AREA IS NO
LONGER PART OF THIS
CURRENT SECTION 38/104
APPLICATION**

1. THIS DRAWING IS COPYRIGHT AND SHOULD NOT BE REPRODUCED IN WHOLE OR PART WITHOUT THE WRITTEN CONSENT OF AJP MIDLANDS LTD.
2. DO NOT SCALE FROM THIS DRAWING.
3. ALL DIMENSIONS TO BE CHECKED ON SITE AND CO-ORDINATE WITH RELEVANT ARCHITECT'S DRAWINGS. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
4. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
5. ALL LEVELS IN METRES.
6. SIZES HEREON SHALL NOT BE MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
7. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS & SPECIFICATIONS.



P04	09.04.2026	LATEST DRAINAGE DESIGNS SHOWN AND DRAWING UPDATED TO SUIT S104 COMMENTS	KG	KG	CS
P02	06.01.2026	GULLY LOCATIONS AMENDED	AQ	KG	CS
P02	04.12.2025	UPDATED TO SUIT LATEST LAYOUT	KG	KG	CS
P01	18.08.2025	INITIAL ISSUE FOR CLIENT REVIEW	LP	KG	CS
REV	DATE	DESCRIPTION	BY	CHK	APP

VISTRY SOUTH EAST MIDLANDS

N/A

STOKE ROAD, HINCKLEY

S104 DRAINAGE GENERAL ARRANGEMENT
SHEET 4

STATUS:	PROJECT No.	PROJECT	ORIGINATOR	VOL/SYS	LEVEL	TYPE	ROLE	DRAWING No.	REV:
S2	M224-138	SRH - AJP - ZZ - 00 -DR - C - 2003							P04

SCALE @ A1:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
1:500	KG/LP	LP	KG	CS	18.08.25