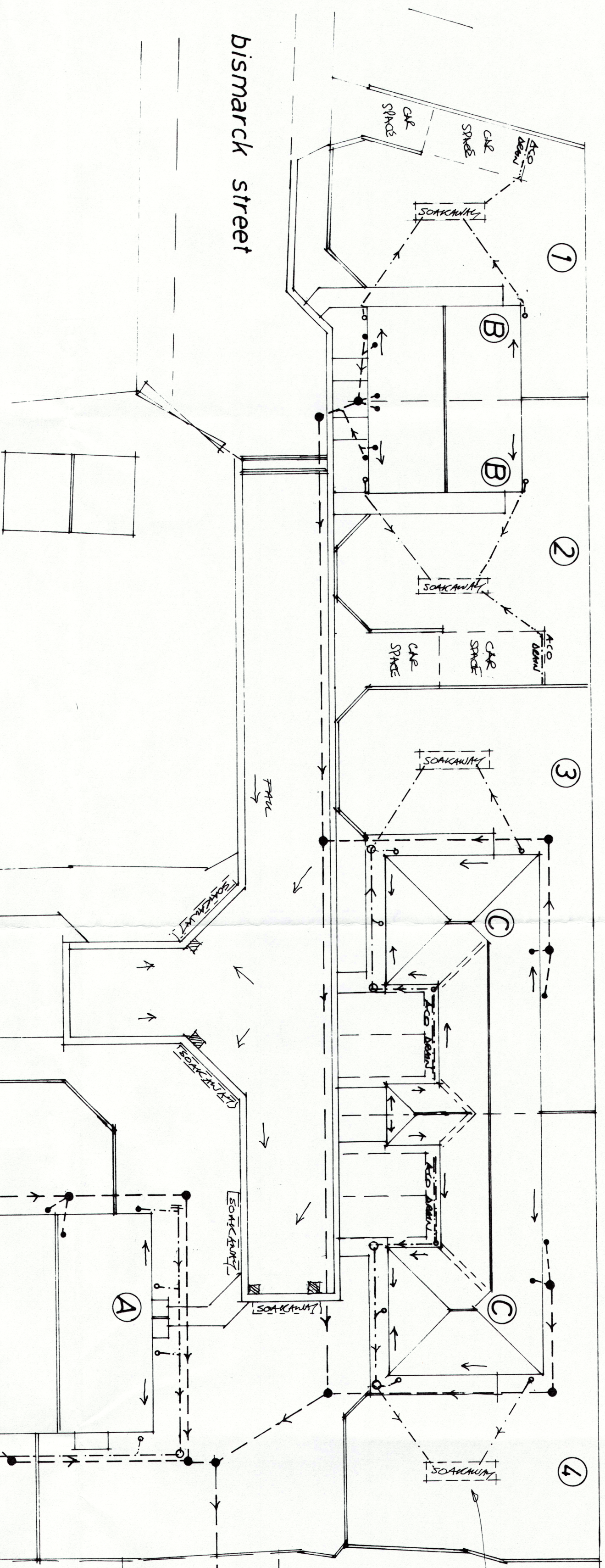




bismarck street

highstone view

- Foul outlet and drain.
- Surface water outlet and drain.
- F. W. Inspection chamber.
- S. W. Rodding access
- S.W. Inspection chamber

Table 12 Minimum dimensions for manholes

Type	Size of largest pipe (DN)	Min internal dimensions	Min clear opening size	Min clear opening size
		Rectangular length and width	Circular diameter	Rectangular length and width
Manhole				
< 1.5m deep to soffit	5 150	750 x 675	1000	750 x 675
	225	1200 x 675	1200	1200 x 675
	300	1200 x 750	1200	1200 x 675
	>300	The larger of 1800 or (DN+450)		na
> 1.5m deep to soffit	5 225	1200 x 1000	1200	600 x 600
	300	1200 x 1075	1200	600 x 600
	375-450	1350 x 1225	1200	600 x 600
	>450	1800 x 1800 or (DN+775)	The larger of 1800 or (DN+775)	600
Manhole shaft				
> 3.0m deep to soffit of pipe	Steps	1050 x 800	1050	600 x 600
	Ladder	1200 x 800	1200	600 x 600
	Winch	900 x 800	900	600 x 600

Notes:
1. Larger sizes may be required for manholes on bends or where there are junctions.
2. May be reduced to 600 by 600 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 chamber in shafted manhole 2m from benching to underside of reducing slab.
5. Min clear space between ladder or steps and the opposite face of the shaft should be approximately 900mm.
6. Winch only - no steps or ladders, permanent or removable.
7. The minimum size of any manhole serving a sewer (ie dry drain serving more than one property) should be 1200 mm x 675 mm rectangular or 1200 mm diameter.

Table 11 Minimum dimensions for access fittings and inspection chambers

Type	Depth to invert from cover level (m)	Internal sizes	Cover sizes
		Length x width (mm x mm)	Circular (mm)
Access fitting			
small	0.6 or less, except where situated in a chamber	150 x 100	150
large	225 x 100	225 x 100	225
Inspection chamber			
shallow	0.6 or less	225 x 100	190
deep	1.2 or less	450 x 450	450
	> 1.2	450 x 450	Min 430 x 430 max 300 x 300
			Access restricted to max 350

Notes:
1. Cover opening may be reduced by 20 mm in order to provide proper support for the cover and frame.
2. Drains up to 150mm.
3. A larger clear opening cover may be used in conjunction with a restricted access. The size is restricted for health and safety reasons to deter entry.

Rev	Notes	Date
B	SOAKAWAYS TO F/DRIVE	05/19
A	SOAKAWAYS ADDED	04/19

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Scale 1:200
Date MGT 19
Rev 3

Member of the Chartered Institute of Architectural Technicians

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