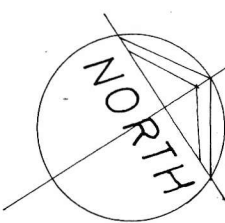
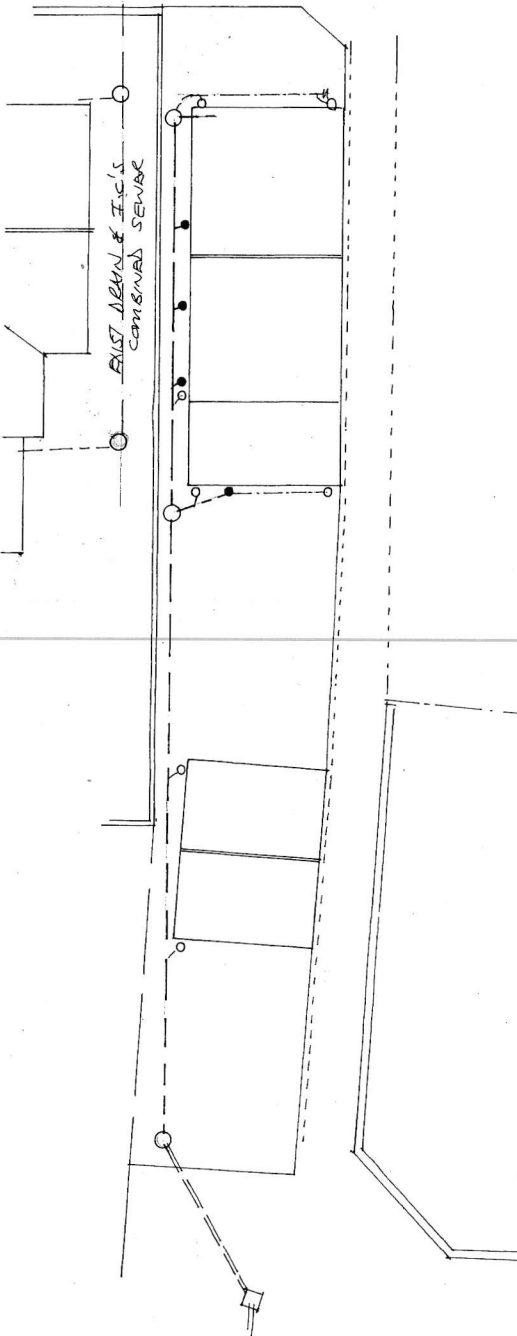
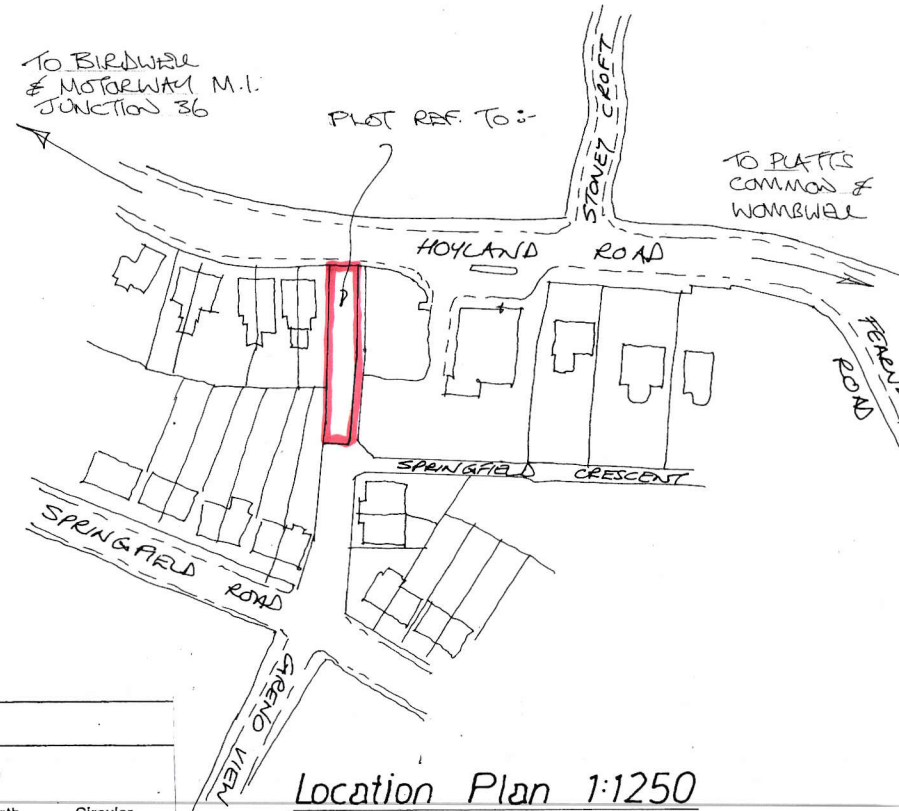


Drainage Layout 1:200



TO BIRDWELL & MOTORWAY M.I. JUNCTION 36

PLOT REF. TO:-



Location Plan 1:1250

Table 12 Minimum dimensions for manholes

Type	Size of largest pipe (DN)	Min internal dimensions ¹		Min clear opening size ¹	
		Rectangular length and width	Circular diameter	Rectangular length and width	Circular diameter
Manhole < 1.5m deep to soffit	≤ 150	750 x 675 ¹	1000 ¹	750 x 675 ²	na ¹
	225	1200 x 675	1200	1200 x 675 ²	
	300	1200 x 750	1200		
	>300	1800 x (DN+450)	The larger of 1800 or (DN+450)		
>1.5m deep to soffit	≤ 225	1200 x 1000	1200	600 x 600	600
	300	1200 x 1075	1200		
	375-450	1350 x 1225	1200		
	>450	1800 x (DN+775)	The larger of 1800 or (DN+775)		
Manhole shaft ⁴ > 3.0m deep to soffit of pipe	Steps ⁵	1050 x 800	1050	600 x 600	600
	Ladder ⁶	1200 x 800	1200		
	Winch ⁷	900 x 800	900	600 x 600	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 (i.e. any drain serving more than one property) should be 1200 mm x 675 mm rectangular or 1200 mm diameter.

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

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Title	Location & Drainage Layouts
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Drawn By	GGG
Scale	Scales @ A3 Date Apr 26
Drawing No	531-02 Rev

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