

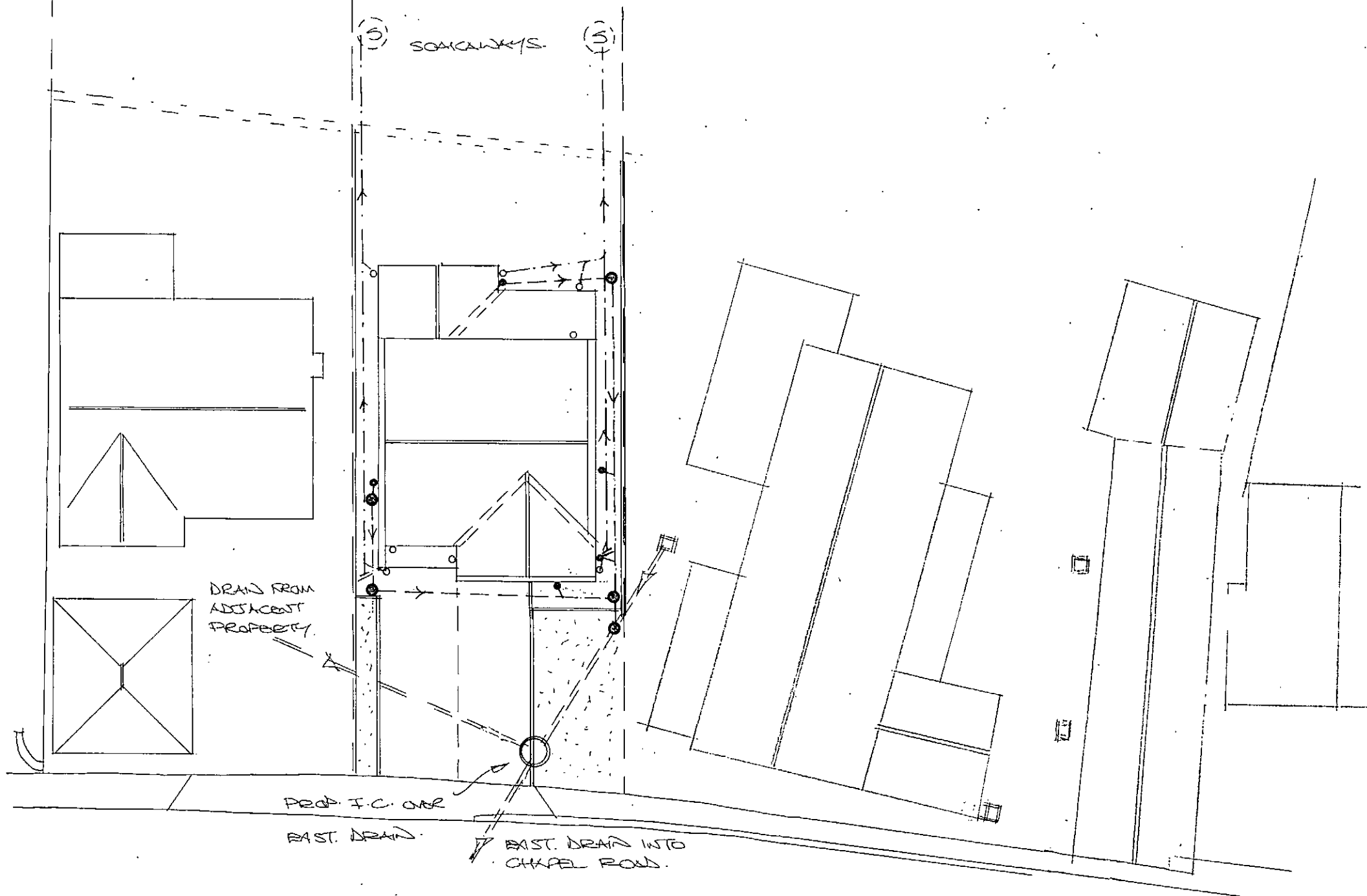


Table 11 Minimum dimensions for access fittings and inspection chambers

Type	Depth to invert from cover level (m)	Internal sizes		Cover sizes	
		Length x width (mm x mm)	Circular (mm)	Length x width (mm x mm)	Circular (mm)
Rodding eye		As drain but min 100			Same size as pipework ¹
Access fitting					
small	150 diam	0.6 or less, except where situated in a chamber	150 x 100	150	150 x 100 ¹
large	225 x 100		225 x 100	225	225 x 100 ¹
Inspection chamber					
shallow	0.6 or less	225 x 100	190	Min 430 x 430	190 ¹
deep	1.2 or less	450 x 450	450	max 300 x 300 ²	430
	> 1.2	450 x 450	450		Access restricted to max 350 ²

Notes:

¹ The clear 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.

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 ³
	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.

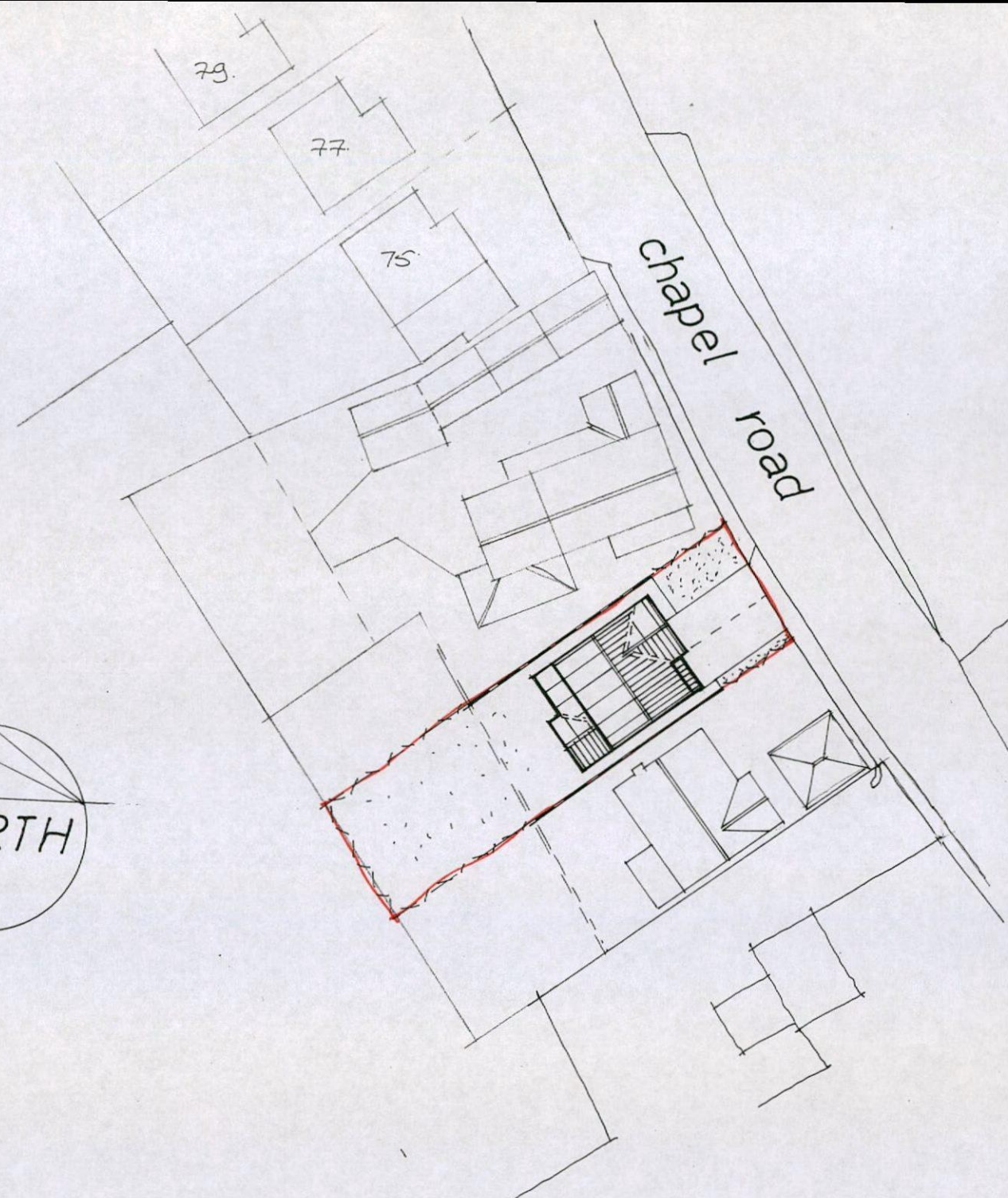
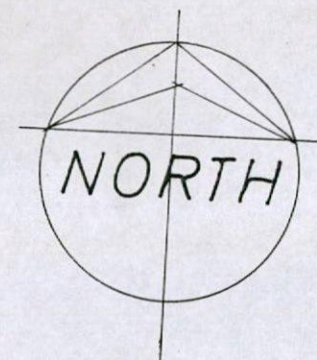
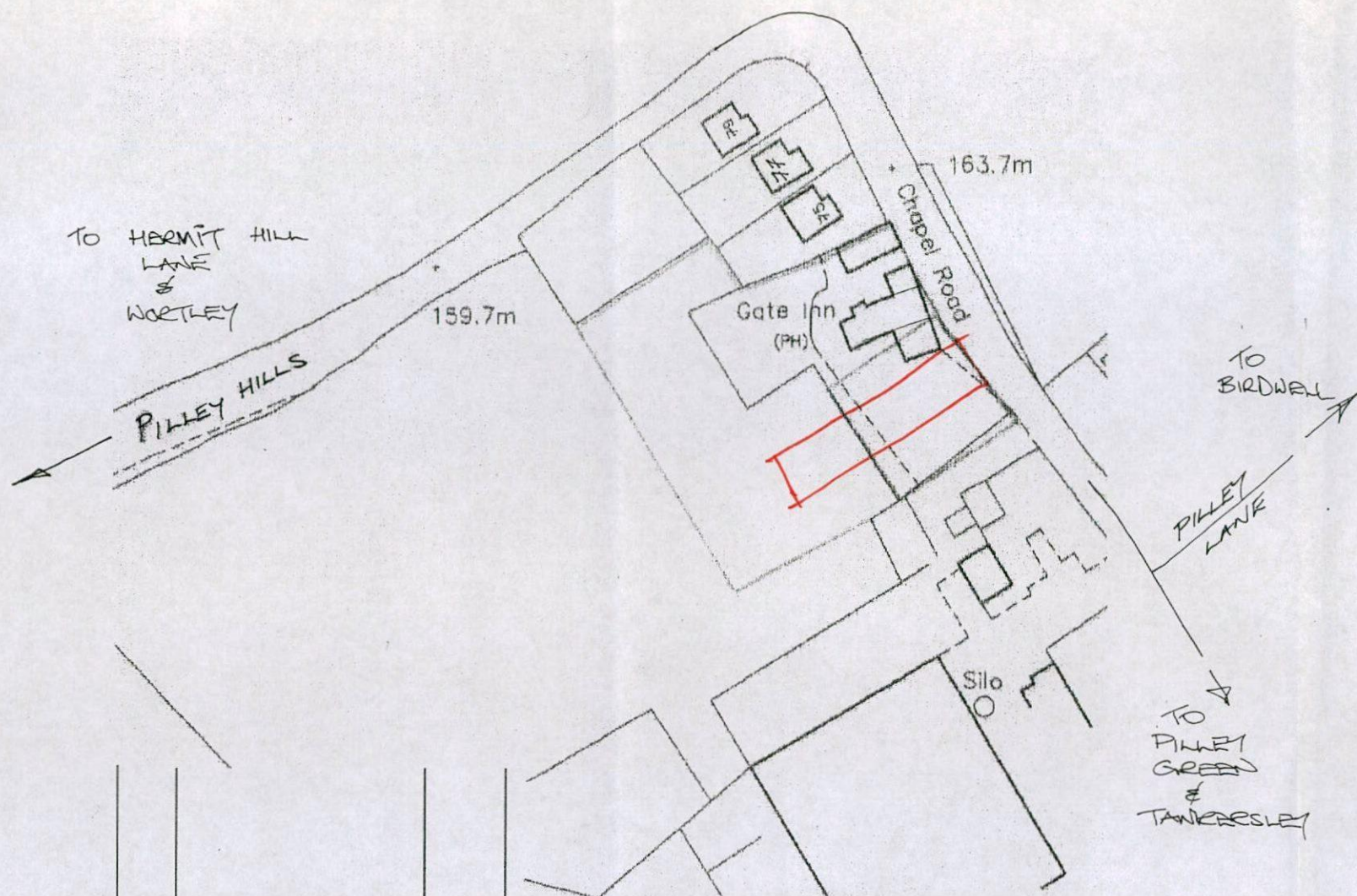
⁷ The minimum size of any manhole serving a sewer (i.e. any drain serving more than one property) should be 1200 mm x 675 mm rectangular or 1200 mm diameter.

Rev	Notes	Date

Garry Greetham Associates Ltd

Residential Design Consultant
Westwood House
18 Carr Lane
Tankersley
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Tel(01226)746573

PROJECT	Detached Dwelling
CLIENT	Mr. & Mrs. A. Clarkson
TITLE	Drainage Layout
ADDRESS	Land adj. Gate Inn, Chapel Road, Pilley, Barnsley. S75 3AR
DRAWN BY	ggg
SCALE	1:200
DATE	Sept14
DRAWING No	796-02
REV	
Member of the Chartered Institute of Architectural Technologists	



Rev	Notes	Date

Garry Greetham Associates Ltd

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PROJECT Detached Dwelling

CLIENT Mr. & Mrs. A. Clarkson

TITLE Location & Site Layouts

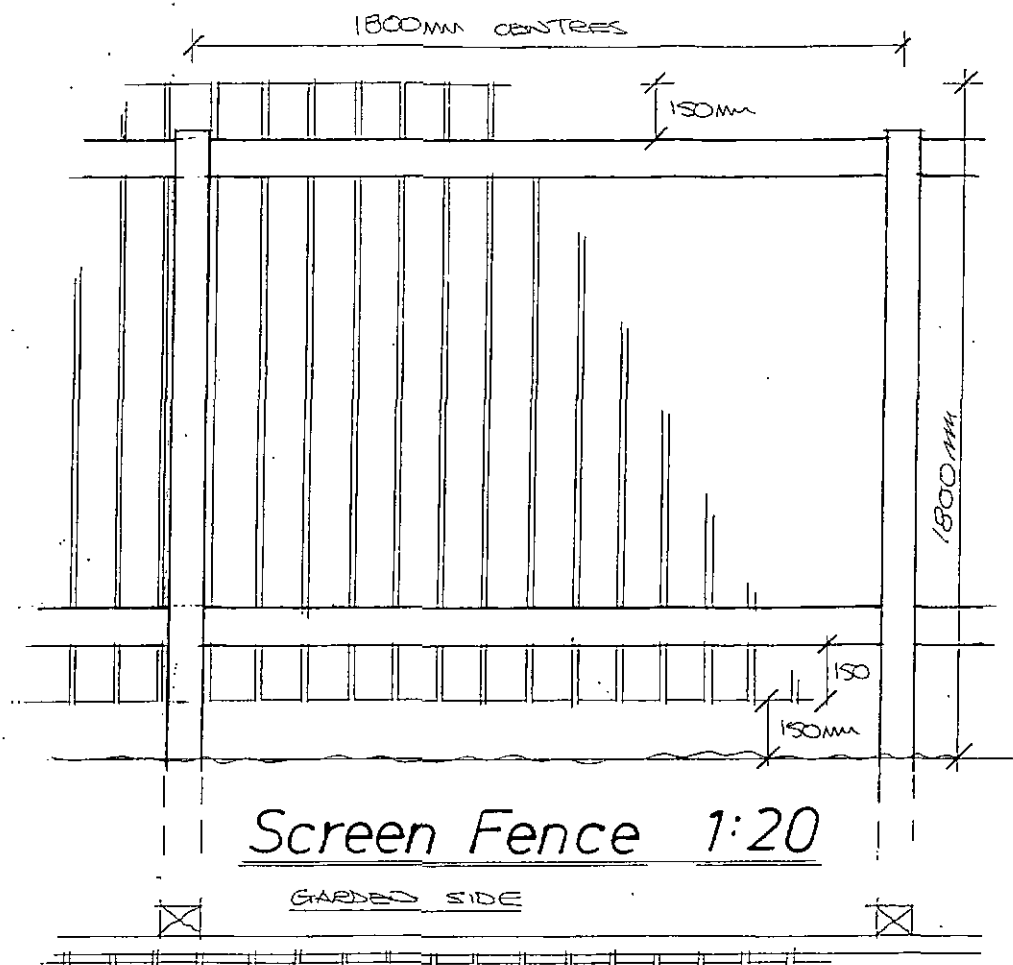
ADDRESS Land adj. Gate Inn,
Chapel Road, Pilley,
Barnsley. S75 3AR

DRAWN BY ggg

SCALE as shown DATE Sept14

DRAWING No 796-01 REV

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100 x 50mm TANKISED
SOFTWOOD SAWN
RAIL C/W GALVANISED
COACH BOLT FIXING
TO POST.

100 x 25mm TANKISED
SOFTWOOD SAWN
BOARDS FIXED WITH
GALVANISED STAPLES.

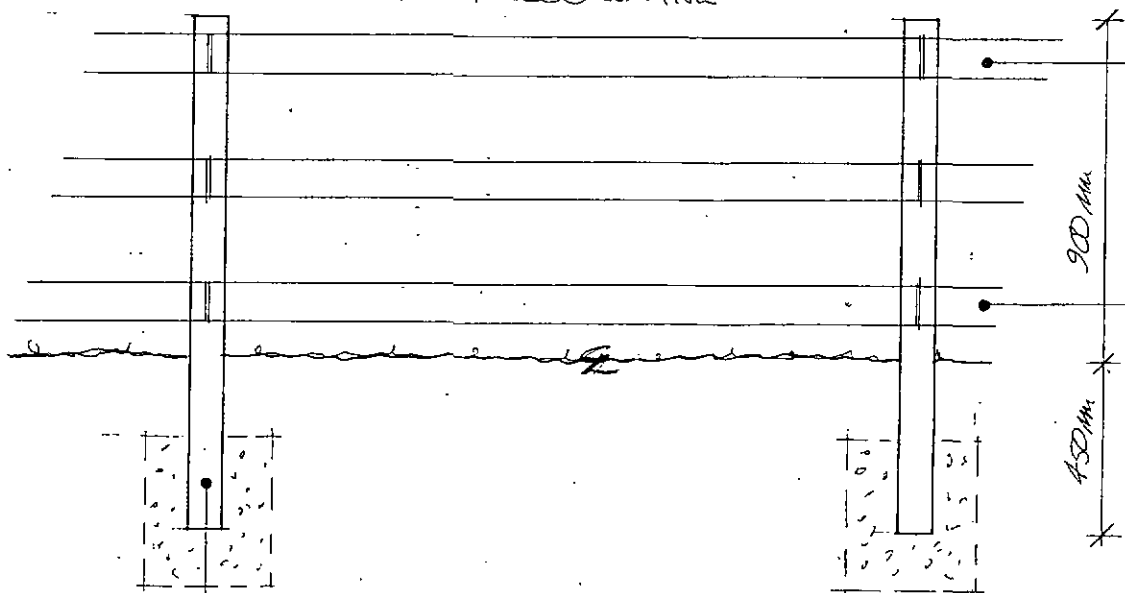
100 x 100mm TANKISED
SOFTWOOD POST AT
1800mm C/C.

Screen Fence 1:20

GARDED SIDE

ROAD SIDE

ALL FENCING WOODWORK TO BE
STAINED WITH WATERPROOF COLOURED
PRESERVATIVE



100 x 25mm
HORIZONTAL
RAILS - EQUALLY
SPACED - 3 NO.
& FIXED TO
VERTICAL POSTS.

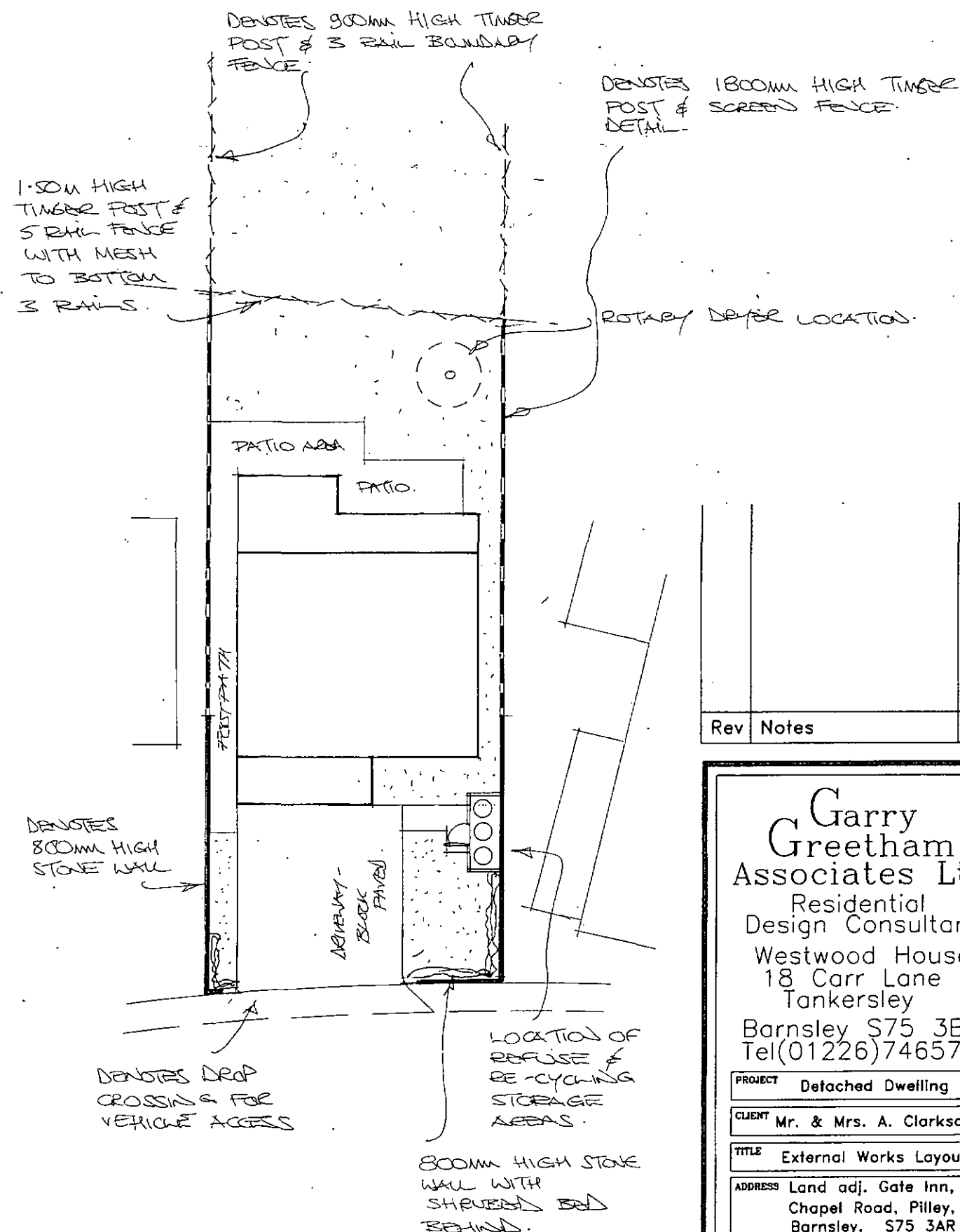
900mm

450mm

100mm SQ. VERTICAL POSTS
- SET INTO CONCRETE
BASE - SET INTO GRASS
450mm (MIN).

Timber Post & 3 Rail

Boundary Fence 1:20



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Tel(01226)746573

PROJECT Detached Dwelling

CLIENT Mr. & Mrs. A. Clarkson

TITLE External Works Layout

ADDRESS Land adj. Gate Inn,
Chapel Road, Pilley,
Barnsley. S75 3AR

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SCALE 1:200 DATE Sept 14

DRAWING No 796-03 REV

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