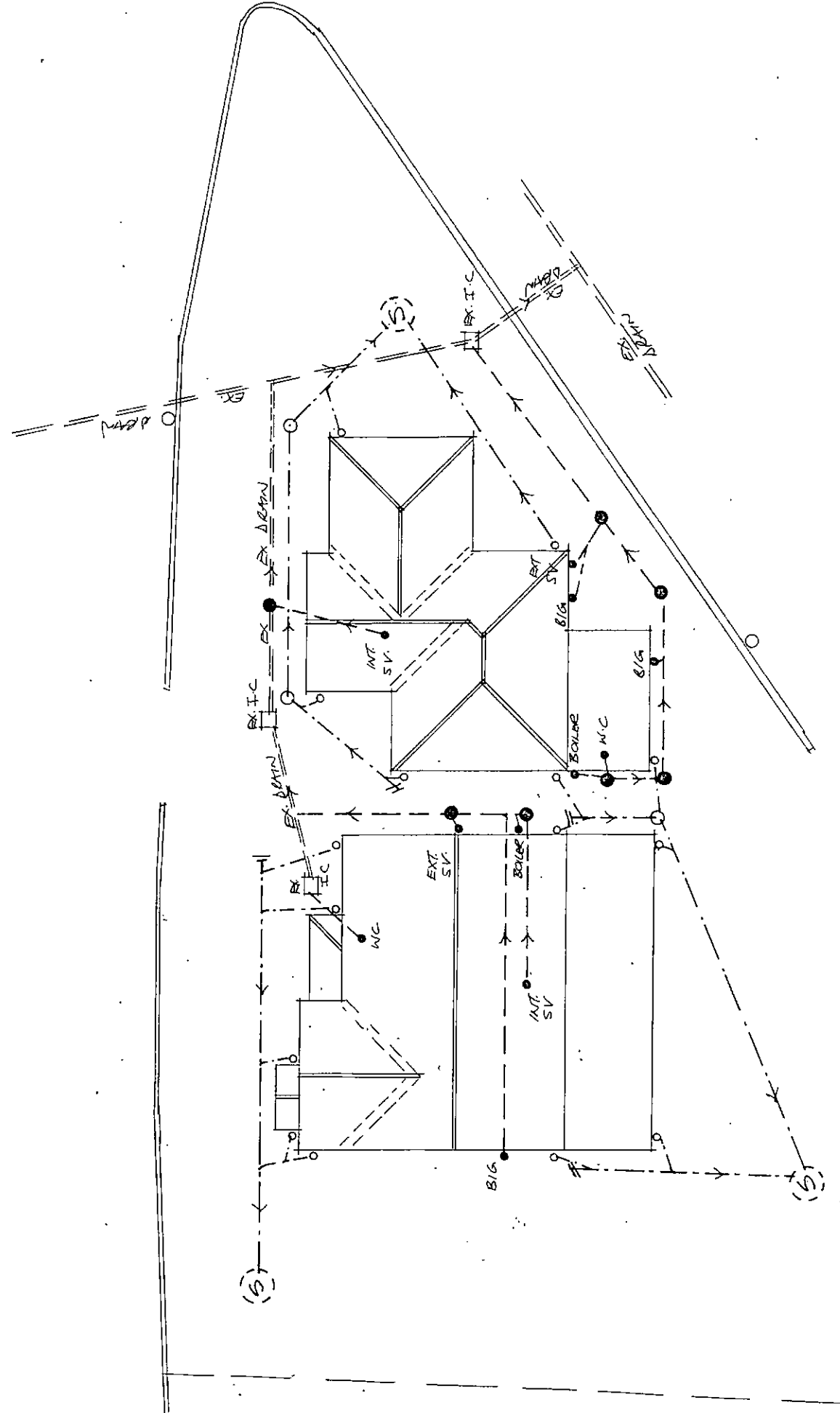




- Foul outlet and drain.
- Surface water outlet and drain.
- F. W. Inspection chamber.
- S. W. Rodding access
- S.W. Inspection chamber
- S.W. Soakaway

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		Same size as pipework	
Access fitting	150 diam except where situated in a chamber	150 x 100	150	150 x 100	150
		225 x 100	225	225 x 100	225
Inspection chamber	shallow	225 x 100	190	225 x 100	190
		450 x 450	450	450 x 450	450
deep	> 1.2	450 x 450	450	450 x 450	450
		450 x 450	450	450 x 450	450

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

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
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Tel(01226)746573

PROJECT Residential Development
CLIENT Mr. Ben Dalton
TITLE Drainage Layout
ADDRESS Within Curtilage of
31 Tankersley Lane, Hoyland
Common, Barnsley. S74 0DS
DRAWN BY 999
SCALE 1:200 DATE Mar 14
DRAWING No 788-02 REV
Member of the Chartered Institute of Architectural Technologists



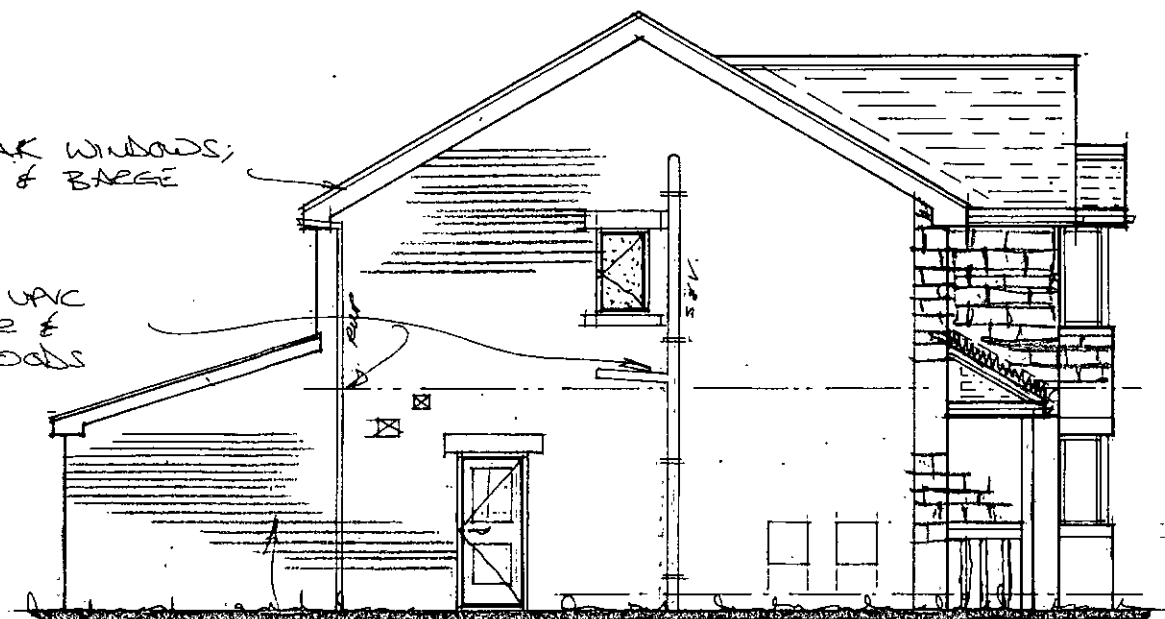
Front

COMPOSITE
FRONT DOOR

NATURAL STONE TO
FRONT & EXPOSED
SIDES

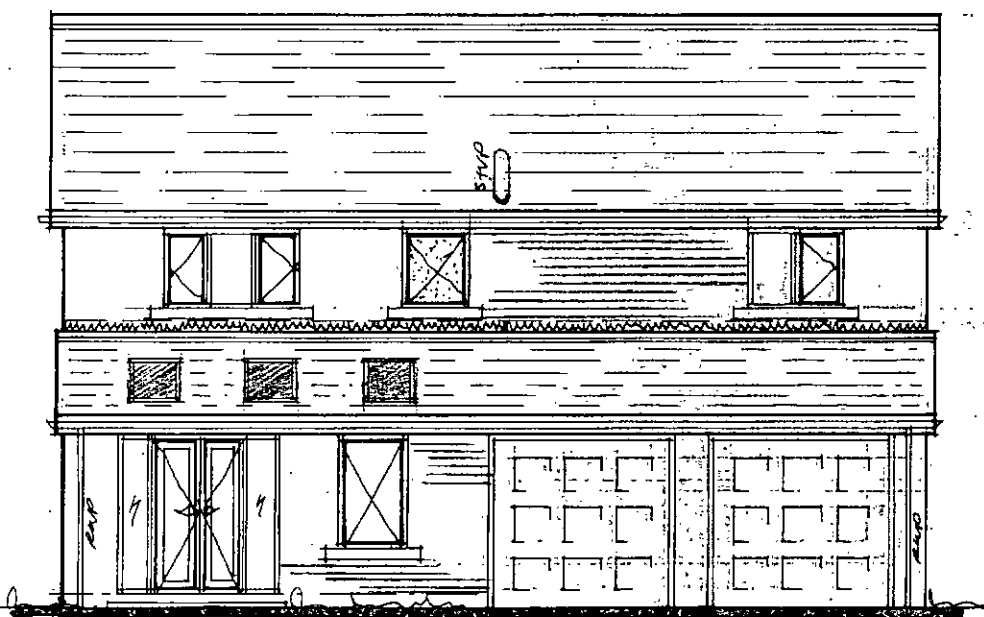
LIGHT OAK WINDOWS;
FASCIA & BARGE

BLACK UPVC
R. WATER &
SOIL GOODS

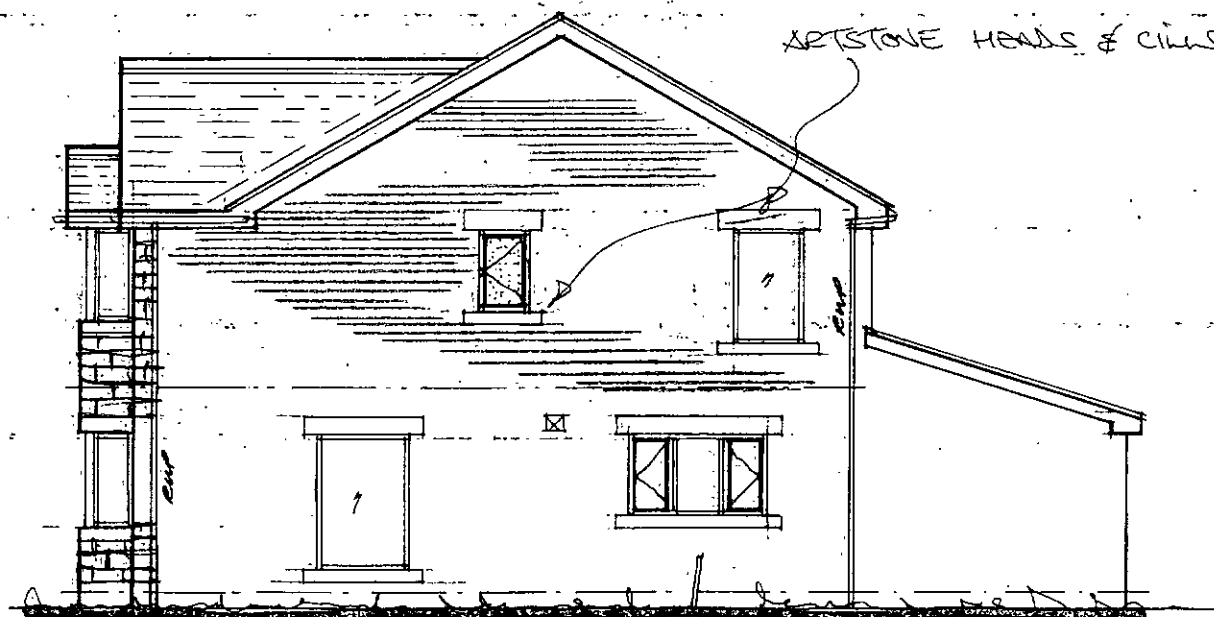


Side

RED RUSTIC BRICKWORK
TO SIDES & REAR



Rear



Side

ARTSTONE HEADS & CILLS

B M B C
CORPORATE MAIL ROOM

11 AUG 2014

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Rev	Notes	Date

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PROJECT Residential Development

CLIENT Mr. Ben Dalton

TITLE Plot 1 - Elevations

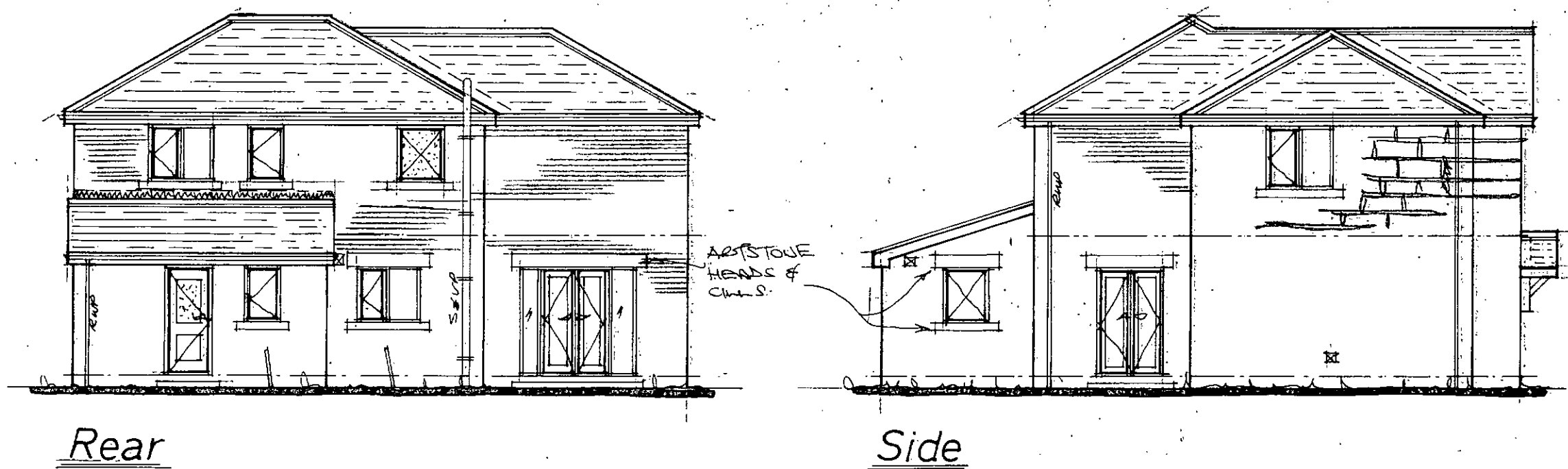
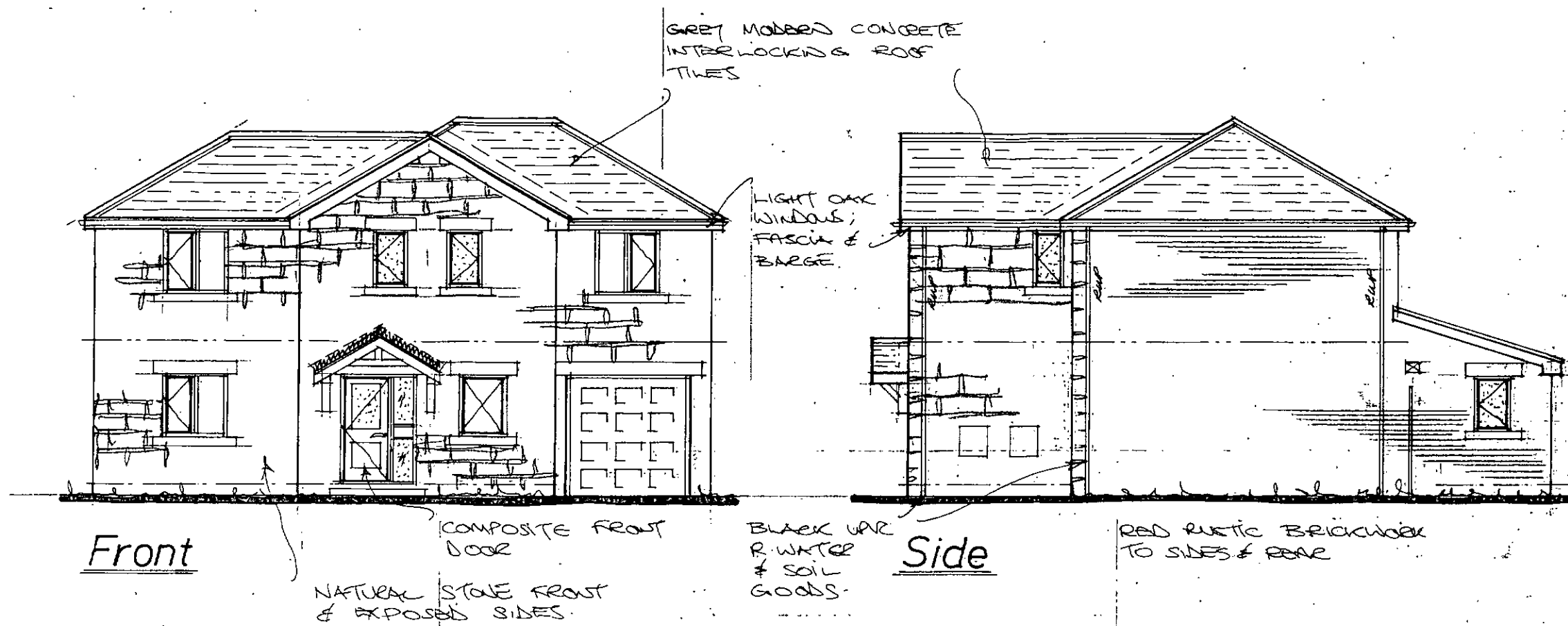
ADDRESS Within Curtilage of
31 Tankersley Lane, Hayland
Common, Barnsley. S74 0DS

DRAWN BY 999

SCALE 1:100 DATE Mar 14

DRAWING No 788-05 REV

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of Architectural Technologists



Rev	Notes	Date

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PROJECT	Residential Development	
CLIENT	Mr. Ben Dalton	
TITLE	Plot 2 - Elevations	
ADDRESS	Within Curtilage of 31 Tankersley Lane, Hoyland Common, Barnsley. S74 0DS	
DRAWN BY	ggg	
SCALE	1:100	DATE Mar 14
DRAWING No	788-10	REV
Member of the Chartered Institute of Architectural Technologists		