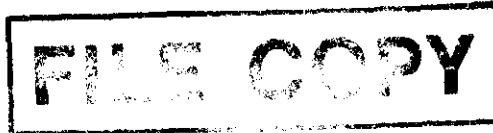


APPLICATION No. H16 / 0906 / 93

Contents Page (30 pages and over)

	Page No
Contents Page	<u>1</u>
Decision Notice	<u>2</u>
Location Plan	<u>3</u>
Application Form	<u>4-5</u> ~~3-4~~
Check Sheets	<u>6-8</u> ~~5-7~~
Other Correspondence	<u>9-118</u>
Drawings	<u>119-125</u>
Post Decision Amendments	<u>(See page 125)</u>



Planning (Listed Buildings and Conservation Areas) Act 1990

Listed Building Consent

Reference: H16/0906/93

Received: 23-SEP-93 Type: LISTED BUILDING

Name: Longhurst Housing Assoc.
Shodfriars Office Centre,
Quaker Lane, Boston, & S.H.D.C
Priory Rd, Spalding & Broadgate
Builders, Weston Hills

Agent: Meldrum Lee & Gillatt
49 High Street
Boston
Lincs

Description: Conversion into 16 self-contained flats

Location : Longs Warehouse Double Street
Spalding Lincs

South Holland District Council hereby give notice that CONSENT HAS BEEN GRANTED for the works in accordance with the application and plans submitted, subject to the following condition(s):

- 1 The works must be begun not later than the expiration of five years beginning with the date of this consent.

Reason: As required by Section 18 of the Planning (Listed Buildings and Conservation Areas) Act 1990.

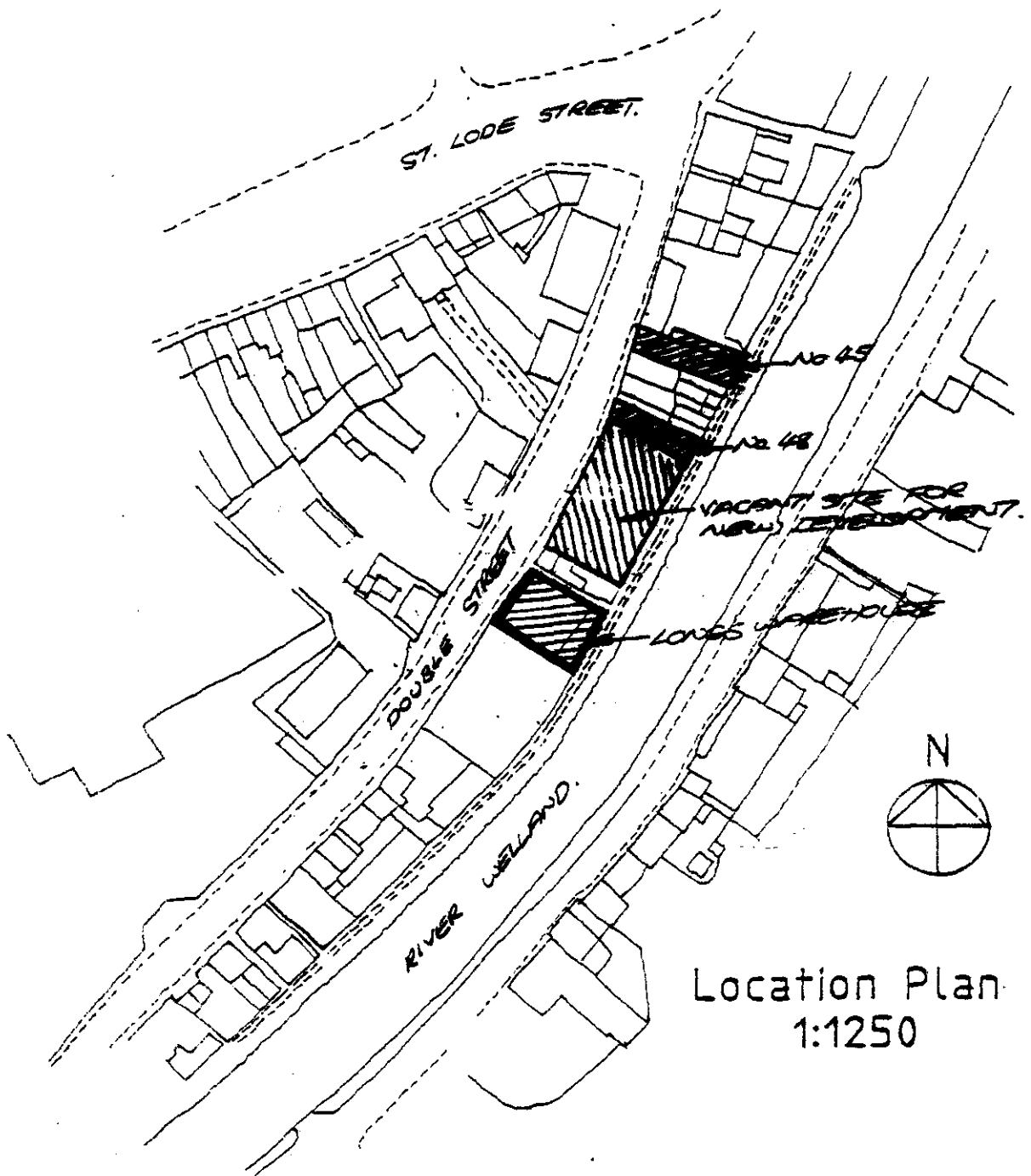
- 2 The external doors shall be as detail plan (ref. 12275:50 received on 2 August 1993).

Reason: For the avoidance of doubt as this agreed detail was omitted from the formally submitted plans.

This Listed Building Consent is granted in accordance with the application submitted as revised by the amended details and supplements received by the Local Planning Authority on 6 October 1993, 8 October 1993, 14 October 1993, 15 October 1993, 24 November 1993 (submitted as new Listed Building application) and 3 February 1994. Applications H16/0742/93 and H16/1120/93 are thereby superseded.

Director of Planning and Building Control Services
15-MAR-94 H16/0906/93

This decision refers only to that required for the purposes of the Town and Country Planning Act and not for Building Regulations or any other legislation. See enclosed notes relating to rights of appeal.



Location Plan
1:1250

SOUTH HOLLAND D.C.
PLAN DEPT.
23 SEP 1993
REF. 0906.93



Meldrum Lee & Gillatt

Architects, Quantity Surveyors
Management & Cost Consultants

HOUSING PARTNERSHIP INITIATIVE
FOR ROADSIDE DEVELOPMENT,
DOUBLE STREET, SPALDING.
LONGS APARTHOUSE, SOUTH
HOLLAND DISTRICT COUNCIL BROOKSIDE HOME

Date
JANUARY 1993

Scale
1:1250

Drawn by
MB

Checked by

No.
12275.13

BUILDING

CONSENT

APPLICATION

For office use only

Application file

H16/0906/93

Date lodged

23 SEP 1993

Grid Reference

1. Name and address of applicant

2. Name and address of agent

LONGHURST HOUSING ASSN LTD, FRIARS HOUSE,
SHODFRIARS OFFICE CENTRE, QUAKER LANE,
BOSTON, Lincs
SOUTH HOLLAND DISTRICT COUNCIL, PRIORY RD,
SPALDING, Lincs
BROADGATE BLD (SPALDING) LTD, BROADGATE
HOUSE, WESTON HILLS, SPALDING, Lincs

NAME AND ADDRESS OF AGENT

MELDRUM LEE & GILLATT
49 HIGH STREET
BOSTON
Lincs

Tel No. 0205 364795

Signature of J A MERRETT

3. Name and address of the development site

LONGS WAREHOUSE DOUBLE STREET SPALDING Lincs

**OFFICE
COPY**

4. Description of the proposed development

CONVERSION INTO 16 No SELF CONTAINED FLATS

[Signature]

FOR MELDRUM LEE & GILLATT

5. Date of submission of all plans

6. Date of submission of certificate

21 SEPTEMBER 1993

H16/0646/93

OWNERSHIP CERTIFICATES

(For Listed Building or Conservation
Area Consent applications)

1. APPLICANT'S INTEREST

Please state interest (e.g. owner, prospective purchaser)

OWNER

2. OWNERSHIP OF THE SITE

This certificate is to make sure that the owners of land are aware of applications made on it.

If the applicant is the **sole owner of the whole site**, complete **Certificate A**.

In **any other case** (i.e. if the applicant is a prospective purchaser, or a tenant, or a joint owner, or the sole owner of only part of the site) then you must give notice to all other owners, and complete **Certificate B**. You should use the notice at the bottom of the form to send to the owner. (An "owner" is a person having a freehold interest, or having a leasehold interest where seven years or more remains unexpired). If you are unable to trace the owner, please contact the Planning Office.

Certificate A

No person other than the applicant was an owner of any part of the land to which the application relates at the beginning of the period of 20 days before the date of the accompanying application.

Signed

FOR MELDRUM LEE & GILLATT

Date 22/9/93

Certificate B

The applicant has given the requisite notice to all persons other than the applicant who were owners of any part of the land to which the application relates at the beginning of the period of 20 days before the date of the accompanying application.

Name and address of owner:

Date notice served:

Signed

Date

Use the notice below to notify any other owner of the building where necessary.

NOTICE UNDER REGULATION 6 OF TOWN AND COUNTRY PLANNING (LISTED BUILDINGS
AND BUILDINGS IN CONSERVATION AREAS) REGULATIONS 1987

TO BE COMPLETED
BY APPLICANT OR
HIS AGENT

Proposal to DEMOLISH/ALTER/EXTEND/VARY or DISCHARGE CONDITIONS (delete as appropriate)

at (location)

Take notice that application is being made to South Holland District Council by (name)

for listed building consent/conservation area consent/variation or discharge of conditions (delete as appropriate)

to (description)

If you should wish to make representations about the application, you should make them in writing not later than 20 days from the date of service of this notice, to Chief Executive, South Holland District Council, Priory Road, Spalding, Lincolnshire.

Signed

Date

APPLICATION ASSESSMENT

Notes for Case Officer

Site Inspection

Accuracy :
Neighbours :
Boundaries :
Site Features :

Inspected by
Date

Site Notice posted by
Date
Expiry

PM

15-10

Individual Resident Notices required:

Addresses to be
sent to -

Addresses
delivered to -

Case Officer Conclusions

RECOMMENDATION/DECISION

NON-DETERMINATION

Permitted Dev (or equiv)
Non Development (or equiv)
Non Response after Direction
Senior Officer confirmed
Withdrawn

DELEGATED DECISION

Case Officer Recommendation

Approve (or equiv) ☒ Refuse (or equiv)

Signed *MM* Date *28/2*

COMMITTEE

Confirmed as agenda

SUB-COMMITTEE

Confirmed as agenda

DPBCS AUTHORISED

Decision Issue confirmed

Notes:

Disabled
Prev conditions
Amended plans -
Dwg no:
Received:

Conditions/Reasons: (cont overleaf)

See attached sheets

INSTRUCTION SHEET

APPLICATION REF: H16/0906/93

Directions

Art 7

☐

RM checklist

Previous
Current
Required

Sit

Des

Ext

Acc

Land

Reg 4

☐

Scale dwg:

Highway S/W:

Agric appraisal:

LB Advt

☐☐Non-std:
Details
needed

Other.....

Direction authorised by Senior Officer.....

Date.....

Revalidation after Direction

Information satisfactory

Signed.....

Date.....

Valid date:

Amended description

Reconsultations:

All

See below

☐☐Unsatisfactory -
Further direction:
Signed.....
Senior Off.....

Precise details:

Additional Consultation/Publicity Required

RECONSULTS

Departure	Publicity: >>	Consultations:
Setting of LB	.....	County
Public Right of Way	.....	E Heritage
Discretionary	.....	Societies
		 G ROW

Extra Consultations:

Transport	D/Transp A15	 G* T15
TRA	D/Transp A18	.....
	B Rail	.....

Environment/	Env Services	.....
Drainage	NRA	.....
WAT	IDB	.....
	Env Assess	 G ENV Specify:

Conservation	LB Demolish	 G* DEM
LB	Archaeology	 G ARC Specify:
	Eng Heritage	.....
	Consultant	.....
	Other	.....

Hazards	HSC Group	 G* HAZ
	Specific	.....
Other PLA		.....

WP Note -
 G Group available
 G* Group essential
 (longer expiry)

Press
 PC
 WM
 Residents

 Case Officer : *NM*
 Senior Officer Confirmed *NM*
Date *12/10*

Recorded DC....

ADMIN RECORD SHEET

Initial

Submitted Fee £ NIL

Receipt No -

Date first Rec'd 23 SEP 1993

Registration

Reference H16/0906/93

Cross-Ref R

Date 24/9/93

Validation

TYPE UB

Site area -
No of dwellings 16
Floorspace -

Earlier permission - Ref:
New/Redevelop/Use/Ext/Alt/Works

Description
to be recorded

Invalid

Site plans
Certificate

Fee
Fee (not free)

Inaccurate
Incomplete
Unclear

Fees

Correct fee £

Nil fee

Previous app - ref:
Type of app
Reason:

Discounted

Additional £ NIL
Refund £

Receipt No
Voucher No

Date
Date

Information

Index sheet 201 OS Plots
Grid ref 52500 322840
Ward P Parish SPALDING
Inside IBD YES Inside LP area YES

Constraints:

CA Cons Area

LB Listed - Grade: II
ARC Archaeology
AM Ancient Mon
SSI Special Int

TR Rural
BP TR proposed 67m
LC Level Cross
FP Footpath
TPO Tree Pres

Hazards -

HAZ Site
AIR Safeguard
LIN Elect
PIP Pipe
CON Waste/contamin

Linked to site

Ref 1676

Linked to property

Ref

Dist Bound

Other:

Planning Records:
Earlier apps

73174/93
646, 647/93
742, 743/93
484/91
576/89
692/87
691/87

B Reg Records:
Already submitted - Ref:
Request needed
Requested

1192/86

BRIAN SMITH Dip TP MRTPI
Director of Planning & Building Control Services
Planning & Building Control Department,
Council Offices,
Priory Road, Spalding,
Lincolnshire. PE11 2XE
Telephone: (0775) 761161
Fax: (0775) 710772



H16/0906/93

LISTED BUILDING

Applicant: Longhurst Housing Assoc.
Tel:

Agent: Meldrum Lee & Gillatt
0205 364795 J A Merrett

Description: Conversion into 16
self-contained flats

Location: Longs Warehouse
Double Street
Spalding
Lincs

Valid date:	23-SEP-93	Terminal date:	18-NOV-93
Target dates:		Target Committee:	17-NOV-93
To case officer	30-SEP-93	Report deadline:	03-NOV-93
Inspected by	07-OCT-93	Agreed TD Ext:	01-DEC-93
Extra contacts	14-OCT-93	Case Officer:	
Report if not clear by	28-OCT-93		N R MIDLEN

DEVELOPMENT/CONSTRAINTS

Size: 16 DWE
Category: Newbuild
Listed building: GRADE II
Conservation Area: SPALDING

Other Constraints:

CONSULTATIONS CARRIED OUT

	Sent	Expiry
Site/Press Advert CLB	15-OCT-93	05-NOV-93
Cllr G J Hawkins	12-OCT-93	19-OCT-93

SITE RECORD

Grid ref: 525100 322840
OS Sheet: 201 **Parcel:**



Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management and Cost Consultants

49 High Street

Boston

Lincolnshire

PE21 8SP

JAM/JC/12275

25 February 1994

Planning Department
South Holland District Council
Council Offices
Priory Road
SPALDING
Lincs

S.H.D.C. PLANNING DEPT.	
RECEIVED	
28 FEB 1994	
Attention of	File Nos.
DPO ☒ J.A.	Is this sound in
DDPO ☐ Es	intention - <i>yes</i>
JC ☐ ADP	<i>yes</i>
Approved by	Approved by YES/NO
Discussed with	

Telephone: 0205 364795

Fax: 0205 310842

Dear Sirs

Longs Warehouse Double Street Spalding

Further to the writers meeting with Mr Midlen of yesterdays date, we confirm the following agreed provision of external lights to the above:-

- 1) 2 No Noval Boulevard covered top lanterns with Bracket A and G1 arms as enclosed literature fixed each side of the rear entrance doorway.
- 2) 1 No Georgian style Edwardian Black style lantern to match the existing lamp standard positioned at the rear of the warehouse, located near the centre line of the north elevation.

Whilst writing we note Mr Midlen's comments that the details submitted of the riverside walling details to the rear of Nos 45 and 48 have been approved, subject to documents being typed and checked.

Yours faithfully

J A Merrett RIBA

cc Ms M Buckley Longhurst Housing Association Ltd
Mr R Mitchell Broadgate Builders (Spalding) Ltd

ALSO AT

Skegness

&

Grantham

PARTNERS

G.T. Lee, FRICS, MAPM

~~R.W. Long, RIBA~~

J.A. Merrett, RIBA

~~K.A. Moberg, RIBA~~

ASSOCIATES

B. G. Hall, AMIAS

C.W. Mager, MBIAT

T.M. Robinson, AMSST

E.R. Sylvester, MBIAT

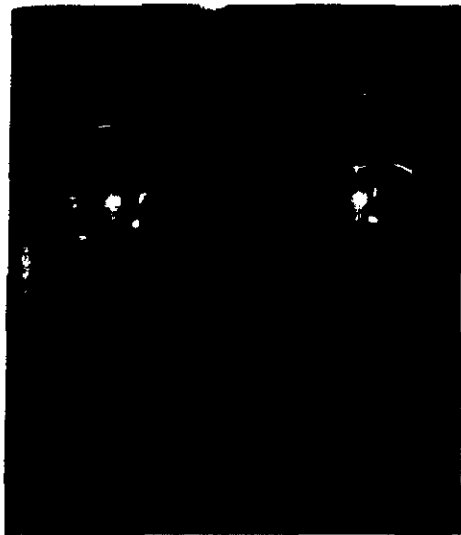
C.L. Sylvester, MSST



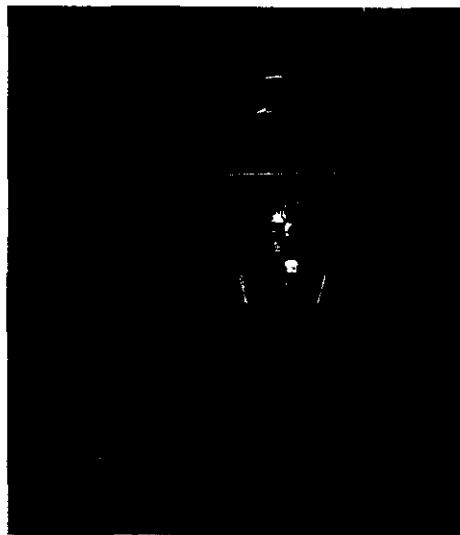
ESTABLISHED

1900

Boulevard

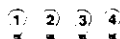


Post-mounted lantern 12 with G1 arm



Bracket A. With G1 arm.

A corner bracket is available as an accessory.



All variants meet IP standard 44.
They are available in the colours white, antique green and black. Acrylic glass.
Choose between the posts on page 78.
Boulevard is also available with an optional glazed top, which directs light upwards.



Glazed top



Covered top

Data

Weight, lantern housing: 10 kg

Wind area: 0,19 m²

Optics

	Symmetrical	Assymetrical
Top reflector	X	
Ring reflector	X	
Oval mirror		x 1)
Refractor	X	

1) Combined with mercury, high pressure sodium or compact fluorescent bulb.

Lamp glass

Clear, smoked or opal white

Light Sources

The lantern has a hinged top, which makes it easy to change the light source.

Post-mounted lanterns: Control unit in post or lantern housing.

Wall-mounted lanterns: Control unit in lantern housing or in wall bracket.

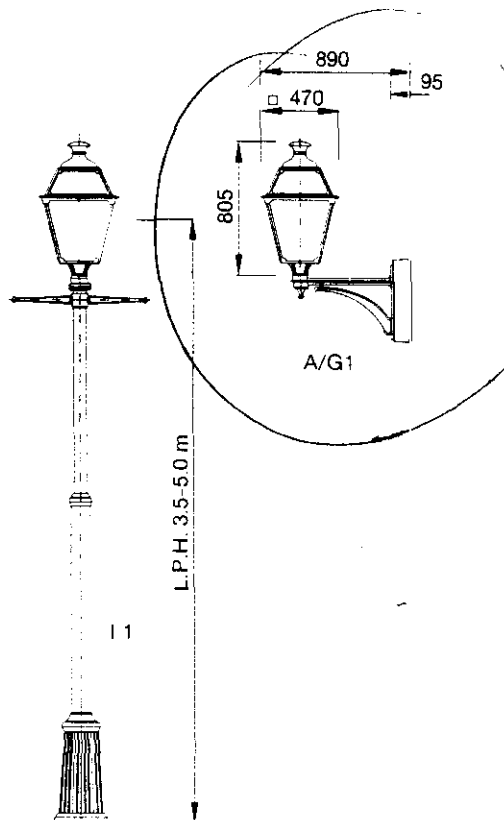
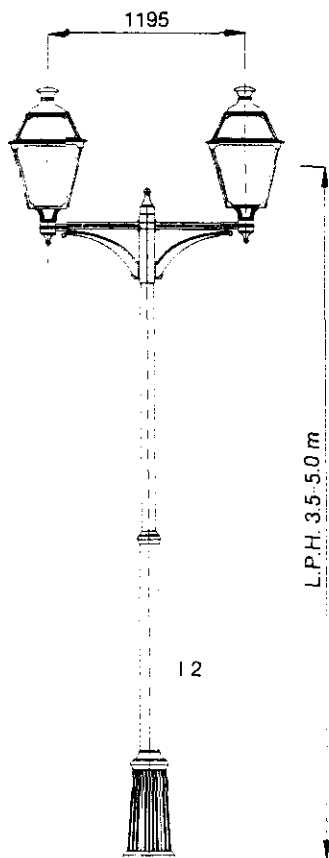
Light Sources	Rec. W*)
Bulb 1	300
Compact fluorescent lamp 2/3	2x26
Mercury 3/4	125
High pressure sodium 4/5	70

*) Other powers: please enquire.

Specify when ordering:

- Bracket
- Optics
- Lamp glass colour
- Light source
- Type of post, see page 78
- Light point height (LPH)
- Position of control unit
- Built-in or external starter (NaH)

Accessories, see page 81.





Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management and Cost Consultants

49 High Street

Boston

Lincolnshire

PE21 8SP

Telephone: 0205 364795

Fax: 0205 310842

S.H.D.C. PLANNING DEPT.	
RECEIVED	
28 FEB 1994	
Attention of	File No.
DPO ☒ NEW	is this correct
DEPO ☐ ES	in our intake off
LC ☐ ACP	local plan
Action by	by
Processed with	by
Copy to	by

JAM/JC/12376

25 February 1994

Planning Department
South Holland District Council
Council Offices
Priory Road
SPALDING
Lincs

Dear Sirs

New Build Flats Double Street Spalding Ref H16/0646/93

Further to your letter dated 15 February 1994 and the writers meeting with Mr Midlen of yesterdays date, we write to confirm that provision of trickle ventilation to the above scheme will be as the detail provided to Long's warehouse. The windows will be detailed as Long's warehouse however they will be provided with a traditional projecting timber cill.

We trust the foregoing is acceptable, whilst writing we confirm our request for urgent approval to the to the materials submitted with Broadgate Builders letter dated 19 January 1994 and subject to our condition compliance submission dated 20 January 1994.

Yours faithfully

J A Merrett RIBA

cc Ms M Buckley Longhurst Housing Association Ltd
Mr R Mitchell Broadgate Builders (Spalding) Ltd

ALSO AT

Skegness

&

Grantham

PARTNERS

G.T. Lee, FRICS, MAPM

R.W. Lewis, RIBA

J.A. Merrett, RIBA

K.A. Holmes, RIBA

ASSOCIATES

B. G. Hall, AMIAS

C.W. Mager, MBIAT

T.M. Robinson, AMSST

E.R. Sylvester, MBIAT

C.L. Sylvester, MSST



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Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management and Cost Consultants

49 High Street

Boston

Lincolnshire

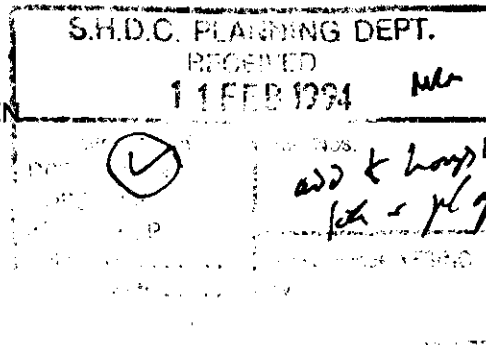
PE21 8SP

JAM/NAH/JC/12275

10 February 1994

FOR THE ATTENTION OF MR N MIDLEN

Planning Department
South Holland District Council
Council Offices
Priory Road
SPALDING
Lincs



Telephone: 0205 364795

Fax: 0205 310842

Dear Sirs

Nos 45 48 and Longs Warehouse Double Street Spalding Lincs

Further to your Consultant Architect, Mary Kerr's visit to site on 17 December 1993 and telephone conversation with our Neil Hutson on 23 December 1993 we write to confirm the comments received as follows:-

1. The render to the cottages is to be reinstated and the render of No 45 is to extend up to the eaves.
2. All works and details carried out by the Contractor are to a satisfactory standard and to Mary Kerr's approval subject to:-
 - i) The leadwork over the tiles around the front of the dormer windows to have the corners squared up.
 - ii) Sootwash required externally to the repointed areas of Longs Warehouse.

The outstanding items have now been rectified and we trust all works to date are now satisfactory.

Yours faithfully

NAH
J A Merrett RIBA

cc Broadgate Builders (Spalding) Ltd

ALSO AT

Skegness

&

Grantham

PARTNERS

G.T. Lee, FRICS, MAPM

J.A. Merrett, RIBA

ASSOCIATES

B.G. Hall, AMIAS

C.W. Mager, MBIAT

T.J. Newton, ABIAT

T.M. Robinson, AMSST

E.R. Sylvester, MBIAT

G.L. Sylvester, MSST



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1900



Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management and Cost Consultants

49 High Street

Boston

Lincolnshire

PE21 8SP

Telephone: 0205 364795

Fax: 0205 310842

JAM/JC/12275

10 February 1994

Planning Department
South Holland District Council
Council Offices
Priory Road
SPALDING
Lincs

Dear Sirs

Longs Warehouse Double Street Spalding

We acknowledge receipt of your letter dated 3 February 1994 regarding the woodwork colour at the above. The writer has not yet viewed the finish following the removal of the scaffolding, however, following the monthly site meeting arranged for next week, I will contact you to discuss the situation further.

Yours faithfully

J A Merrett RIBA

ASSOCIATE

Skegness

&

Grantham

PARTNERS

G.T. Lee, FRICS, MAPM

J.A. Merrett, RIBA

ASSOCIATES

B.G. Hall, AMIAS

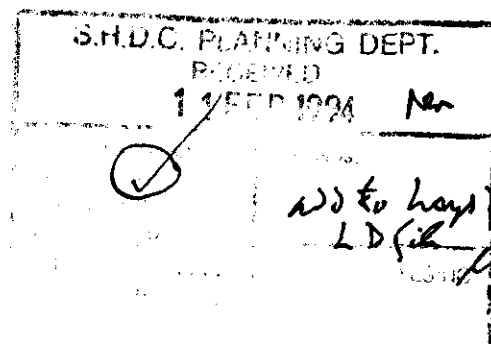
C.W. Mager, MBIAT

T.J. Newton, ABIAT

T.M. Robinson, AMSST

E.R. Sylvester, MBIAT

C.L. Silvester, MSST



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Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management and Cost Consultants

49 High Street

Boston

Lincolnshire

PE21 8SP

JAM/NAH/JC/12275

1 February 1994

FOR THE ATTENTION OF MR N MIDLEN

Planning Department
South Holland District Council
Council Offices
Priory Road
SPALDING
Lincs

Dear Sirs

Longs Warehouse Double Street Spalding Lincs
Listed Building Consent Application Reference H16/0074/93 & H16/1120/93

Further to telephone conversation on 24 January 1994 between Mr Midlen and our Neil Hutson, we now write to reply as follows:-

1. We enclose photographs as suggested by Mr Midlen indicating copings to the rear boundary walls of Longs Warehouse as required by Condition 3 (f) of Listed Building Consent Reference H16/0074/93. ✓ 15
2. We confirm that the face plates of the floor entry system to be mounted near to both external doors as submitted under Listed Building Consent application reference H16/1120/93 will be coloured black rather than the standard anodised aluminium finish. ✓ 15.

We trust the above completes all outstanding information required by yourselves and a consent document can now be issued.

Yours faithfully

NAH

pf. J A Merrett RIBA

Encs

Telephone: 0205 364795

Fax: 0205 310842

ALSO AT

Skegness

&

Grantham

PARTNERS

G.T. Lee, FRICS, MAPM

J.A. Merrett, RIBA

K.A. Holroyd, RIBA

ASSOCIATES

B.G. Hall, AMIAS

C.W. Mager, MBIAT

T.J. Newton, ABIAT

T.M. Robinson, AMSST

E.R. Sylvester, MBIAT

C.L. Silvester, MSST



ESTABLISHED

1900

BE BLANK
Toward
USA
Estimate

24-JAN-94 MON 16:42

0205310842

P. 02

ALL EXISTING TRAILERS
TO EXISTENCE OF BUILDING
REMOVED.

CODES LEAD ROADS TO EXISTING
DANGER CHAINS.

10' of
New
Foundation

CORRUGATED METAL
EXISTING LEAF TO ROOF
DEMOGRAPHIC.

EXISTING ROOFING
WILL BE REPRODUCED IN NEW

Light
Firming

HOUSE

CURVE OF ROAD BOUNDARY WALL TO REMAIN.

2400mm

section of fencing to extend to ground level
and to be demountable to allow for vehicular
access to substation.

NEW LINK ROOF.

24' x 30'

ADJACENT CEMENTS AS
BUSHES, PLANTING AT
WATER WARD HOUSE &
TO LINK TRAILER WITH
WALL ALONG FENCE.

CURVE OF ADJACENT
DANGER CHAINS
WAREHOUSE.

CURVE OF ROAD BOUNDARY
TO ADJACENT CHAINS

Light
Firming

Light
Firming

Pressure

THIS WALL PROVIDES BURNING LIGHTS TO NORTH
BOUNDARY IN BURNING TOGETHER WITH ONE
FROM BURNING CELL CONTROL BURNING.

SIDE ELEVATION

F

P. 02

24-JAN-94 MON 16:42 MELDUM, LEE & GILFILLAN



Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management and Cost Consultants

49 High Street

Boston

Lincolnshire

PE21 8SP

JAM/JC/12275

10 December 1993

Telephone: 0205 364795

FOR THE ATTENTION OF MR N MIDLEN

Fax: 0205 310842

South Holland District Council
Council Offices
Priory Road
SPALDING
Lincs

Dear Sirs

Double Street Spalding

We would be grateful to arrange a site inspection at the above in order that the pointing of existing brickwork can be approved.

You also made a request that a sample area of render to the rear of Nos 45 and 48 was removed for inspection. This is also now available for inspection, although it is clear that the condition of the brickwork which has been exposed is very poor, which is obviously the reason that the previous owners rendered these elevations.

Your prompt attention to the above request would be gratefully appreciated.

Yours faithfully

rett RIBA

ALSO AT

Skegness

&

Grantham

PARTNERS

G.T. Lee, FRICS, MAPM

J.A. Merrett, RIBA

K.A. Holroyd, RIBA

ASSOCIATES

B.G. Hall, AMIAS

C.W. Mager, MBIAT

T.J. Newton, ABIAT

T.M. Robinson, AMSST

E.R. Sylvester, MBIAT

C.L. Sylvester, MSST

906/93 646/93

S.H.D.C. PLANNING DEPT. RECEIVED 13 DEC 1993	
APPROVED BY [Signature] DATE [Date]	RECEIVED BY [Signature] DATE [Date]
ADVISED BY [Signature] DATE [Date]	
ADVISED BY [Signature] DATE [Date]	



ESTABLISHED

1900

Mary Kerr,
Manor Farm House,
Spanby,
Sleaford,
Lincs.
NG34 0BB.

Mr N Midlen

NRM/JJ H16/0906/93

24 Nov 1993

Dear Mrs Kerr,

LONGS WAREHOUSE, DOUBLE STREET, SPALDING.

Meldrum Lee and Gillatt have supplied me with a colour swatch of the sadolin standard range of colours which they propose to use on the external woodwork for Longs Warehouse. I understand from Mr Merrett of Meldrum Lee and Gillatt that you have had sight of this and would prefer either No 52 Green or 56 Brown. Could you kindly confirm this.

Yours sincerely

N Midlen
Principal Planning Officer
Development Control

Broadgate Homes,
Broadgate Road,
Weston Hills,
Spalding,
Lines.

Mr N Midlen

NRM/JJ H16/0906/93

RMGC0452

24 Nov 1993

Dear Sir,

LONGS WAREHOUSE, DOUBLE STREET, SPALDING.

I refer to your letter and tiles samples received on the 15th October and confirm, for the record, that they are acceptable for use on the roof of Longs Warehouse.

Yours faithfully

N Midlen
Principal Planning Officer
Development Control



Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management and Cost Consultants

ENCLOSURES

Issuing Office 49 High Street Boston Lincs

Client Longhurst Housing Association Ltd

Project Double Street Spalding Lincs

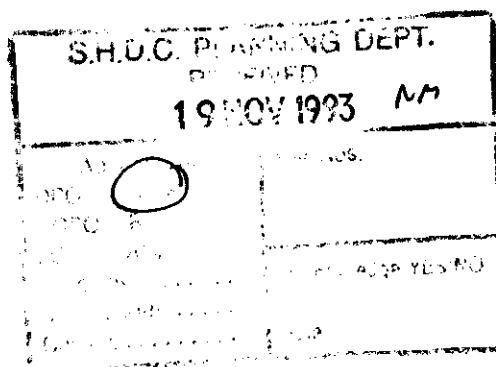
Reference 12275

Date 18 November 1993

Item Proposed stains colours for Longs Warehouse

Distribution

Mr N Midlen
Planning Department
South Holland District Council
Priory Road
SPALDING
Lincs



Signed

Meldrum Lee & Gillatt
for Meldrum Lee & Gillatt



Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management & Cost Consultants
49 High Street, Boston, Lincolnshire PE21 8SP
Telephone: 0205 364793 Fax: 0205 310842

Job No.

12376.

Date

5 NOV 93

To

NIGEL MIDEN.

From

JOHN MERRITT.

Of

PLANNING DEPT.
SHDC.

Project

NEW BUILD FLATS,
DOUBLE STREET,
SPALDING.

WE HAVE BEEN ASKED TO OBTAIN YOUR COMMENTS
TO THE PROBLEMS THAT THE WALLS FACING
NO. 11 ARE SERVED WITH A LIGHT REFLECTIVE
SURFACE AS INDICATED ON THE ENCLOSED
SKETCH DRAWING NOTED (A) + (B).

WE WOULD BE GRATEFUL TO RECEIVE YOUR
INFORMAL COMMENTS.

S.H.D.C. PLANNING DEPT.

RECEIVED

- 5 NOV 1993

Attention

File nos.

DPO

14/11

DPO

15/11

JC

16/11

JC

17/11

JC

18/11

JC

19/11

JC

20/11

JC

21/11

JC

22/11

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23/11

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15/12

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16/12

JC

17/12

JC

18/12

We are transmitting 2 pages
IF YOU DO NOT RECEIVE ALL PAGES, PLEASE TELEPHONE IMMEDIATELY

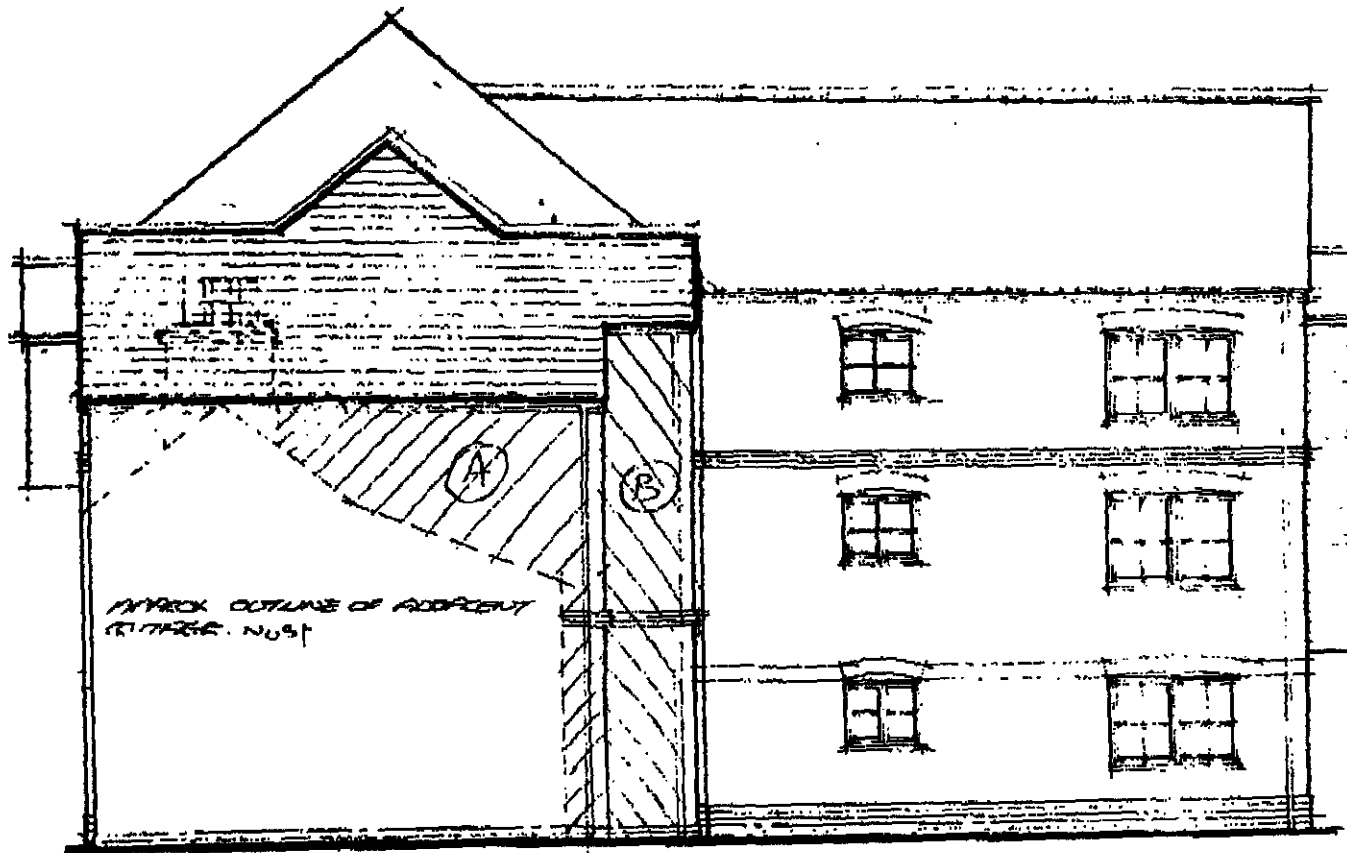
Destination FAX No. 0775 710772.

FAX TRANSMISSION

MLG 029/A



SUBSTATION SITE

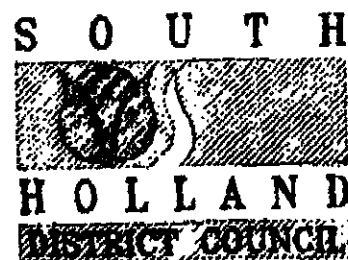


SIDE ELEVATION TO NEW DEVELOPMENT

Housing Partnership 1 for Riverside Develop Double Street, Spa



LONGHURST
HOUSING ASSOCIATION



Broadgate B

P.02

The effect of the Order will be as indicated by traffic signs to:-
a) close the trunk road to southbound traffic from a point 15 metres south of its junction with Sherwood Drive to a point 10 metres south of its junction with Park Road.
b) prohibit vehicles from turning left into Park Road.

Exemptions will be provided in the Order to enable vehicles to be used:-
a) for police, fire brigade or ambulance purposes,
b) with the permission or at the direction of a police constable in uniform; or
c) in connection with the said works.

ALTERNATIVE ROUTES

Southbound traffic will be diverted along Warden Tree Lane, West Marsh Road and West Elloe Avenue to rejoin the trunk road south of the closure.

Traffic wishing to enter Park Road will be diverted via Pinchbeck Road, New Road, Station Street and Winsover Road.

A QUAIL
A Higher Executive Officer in
the Department of Transport



PLANNING APPLICATIONS

NOTICE IS HEREBY GIVEN that application has been made to the Council in respect of the following proposals.

H09/0959/93 Broadgate Homes
Residential Development
Wignals Gate, Holbeach, Spalding, Lincs
RESERVED MATTERS

The following proposal(s) involve, or effect the setting of, a building listed by the Secretary of State for the Environment as a building of special architectural or historic interest, and/or affect the character of a Conservation Area:

H04/0939/93 B. Smith & Co
Perspex lettering fixed direct to brickwork
23 Market Place, Donington, Spalding,
Lincs

ADVERTISEMENT

H16/0639/93 Mr and Mrs J. Scotney
Fascia illuminated projecting sign
The Candy Bar, 15 The Crescent,
Spalding, Lincs.

ADVERTISEMENT

H16/0906/93 Longhurst Housing
Association
Conversion into 16 self-contained flats
Longs Warehouse, Double Street,
Spalding, Lincs.
LISTED BUILDING

Applications and plans showing the above proposals can be inspected at the Planning Department, Priory Road, Spalding, during normal office hours. Any comments should be sent to me within 21 days of this notice, quoting the relevant reference number.

S O U T H



H O L L A N D
D I S T R I C T C O U N C I L

B. SMITH
Director of Planning
and Building
Control Services

October 15, 1993.
n4866

IF YOU HAVE SOMETHING TO SELL

Tell readers they could be your customers.
Tel Zoe
on 0775 725484

Lutton Parish Council

Invite applications for the tenancy of a 4 acre allotment from 1.1.94. Written applications to be submitted to:
The Clerk,
7 Oakley Drive,
Spalding,
Lincs PE11 2BN

NOTICE IS HEREBY GIVEN that any person having a claim against or an interest in the estate of Joan Emily Edwards, late of 75 St Thomas's Road, Spalding, Lincolnshire, who died on the 12th day of June, 1993, and whose Will was proved at the Ipswich District Probate Registry on the 18th day of August, 1993 by the Executors named in the said Will, is hereby required to send particulars in writing of their claim or interest to the undersigned, the Solicitors for the said Executors, on or before the 15th day of December, 1993, after which date the Executors will proceed to distribute the assets of the said deceased amongst the persons entitled thereto having regard only to the claims and interests of which they shall then have had notice.
Dated this 8th day of October, 1993.

CRUSTS.

Solicitors for the said Executors.

"Highbury",
64 Pinchbeck Road,
Spalding, Lincs.

newVN 4888

187/507 SG15-10

The Job Hunters Guide

Are you really serious?

About that important next job answer's yes, make sure of you

The Job Hunters Guide every week

1,000's of jobs for only
Order it from your newsagent

Also available in our Reception Office, The Spalding, or by post £1.50 (incl post). Please make cheques payable to Well Newspapers and send to Lincolnshire Priory House, The Crescent, Spalding, Lincs.

The Job Hunters Guide

Coming Events

Leo Promotions presents ROLLER SKATING

at the

CASTLE SPORTS COMPLEX, SPALDING
EVERY SATURDAY NIGHT

6.30-9 pm all skate sessions

Quality boot hire and disco and games on all sessions

Admission: Under 12's £1.50; Over 12's £2.00. Skate hire 60p. Spectator £1.00

★ Monday Afternoons 2-4 pm throughout School Holidays.

SPG

15/10/93

PLANNING APPLICATION

Notice is hereby given that application has been made to the Council in respect of the following:

LISTED BUILDING IN CONSERVATION AREA

The proposal affects a building which is listed by the Secretary of State for the Environment as a building of special architectural or historic interest and may affect the character or appearance of the Conservation Area of SPALDING

Reference No: H16/0906/93

Description: Conversion into 16
self-contained flats

Location: Longs Warehouse
Double Street
Spalding
Lincs

Applications and plans showing the proposal(s) may be seen during office hours at the Planning Department, Council Offices, Priory Road, Spalding. Any observations should be sent to me by 05-NOV-93 quoting the above reference number.

B Smith
Director of Planning and Building Control Services

15-OCT-93

S O U T H



H O L L A N D
DISTRICT COUNCIL



Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management and Cost Consultants

49 High Street

Boston

Lincolnshire

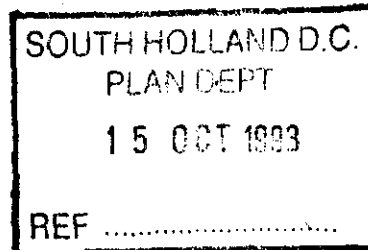
PE21 8SP

JAM/NAH/TAS/12275

14 October 1993

FOR THE ATTENTION OF MR N MIDLEN

Planning & Building Control Department
Council Offices
Priory Road
SPALDING
Lincs
PE11 2XE



Fax: 0205 310842

Dear Sirs

Longs Warehouse Double Street Spalding

Please find enclosed 2 copies of our drawings which indicate our proposals for the mechanical extraction layout including the positions and methods of termination.

1. The lower bathrooms and the kitchens to flats 3 and 4 are all served by vertical extract ducting to terminate low in the valley slopes of the roofs.
2. The bathrooms and kitchens in the top floor will terminate through the roof on the valley roof slopes above ceiling level.
3. The remaining kitchens will have ducting horizontally through the walls to be terminated with a decorative grating, the positions as indicated on the elevation drawing.

We enclose 2 copies of the following drawings:-

12275:12H Elevations
12275:18D Ground & First Floors
12275:19E Second & Third Floors
12275:62 Vertical Duct Termination

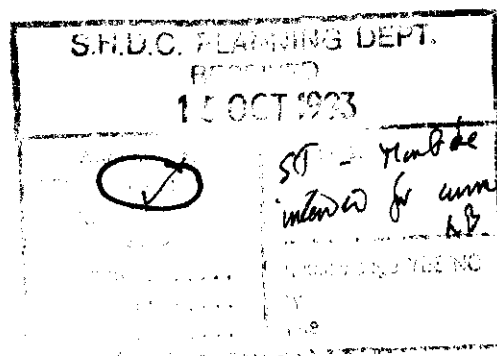
Also enclosed are details of a proposed decorative grating all to which we would appreciate your comments before progressing our proposals.

Yours faithfully

NAH

J A Merrett RIBA

Encs



ALSO AT

Skewness

&

Grantham

PARTNERS

G.T. Lee, FRICS, MAPM

J.A. Merrett, RIBA

K.A. Hobroyd, RIBA

ASSOCIATES

B.G. Hall, AMIAS

C.W. Mager, MBIAT

T.J. Newton, ABLAT

T.M. Robinson, AMSST

E.R. Sylvester, MBIAT

C.L. Silvester, MSST



ESTABLISHED

1900

BRIAN SMITH Dip TP MRTPI
Director of Planning & Building Control Services
Planning & Building Control Department,
Council Offices,
Priory Road, Spalding,
Lincolnshire. PE11 2XE
Telephone: (0775) 761161
Fax: (0775) 710772



Application no: H16/0906/93

Applicant: Longhurst Housing Assoc.
Shodfriars Office Centre,
Quaker Lane, Boston, & S. H. D. C
Priory Rd, Spalding & Broadgate
Builders, Weston Hills

Agent: Meldrum Lee & Gillatt
49 High Street
Boston
Lincs

Description: Conversion into 16
self-contained flats

Location: Longs Warehouse
Double Street
Spalding
Lincs

Amendment: Roof link proposals, as original approval
(Drawing no: 12275.57A and 59)

08-OCT-93

Dear Sir/Madam

ACKNOWLEDGEMENT OF AMENDMENT

I acknowledge receipt of the amended details in respect of the above proposal. These have been incorporated into the application which will now only be considered in its amended form.

The terminal date for dealing with the application has now been extended to 01-DEC-93, based on the date of receipt of the amendment, and your rights of appeal remain as explained on the original acknowledgement.

You are reminded that revision to any submission made under the Building Regulations may also be necessary.

Yours faithfully

A handwritten signature in dark ink, appearing to read 'B. Smith'.

Director of Planning and Building Control Services

PLANNING AMENDMENT RECORD SHEET

ADMIN

DC

Validation:

Inadequate/Inappropriate
Valid as Amendment

☐
☒
☐
☒

Clarification/Details required:

DC Assessment

Senior
Officer

Case
Officer

Post	Immaterial	☐	☐
	New Application needed	☐	☐
	Confirmed:		
Current	Amendment in principle?	Yes/No	Yes/No
	Same desc/char? (fee test)	Yes/No	Yes/No >
	Initiated by LPA?		Yes/No
	Dev objectives paramount?	Yes/No	
	Authorised to proceed	<i>mm</i>	
	Details accepted, if less than amendment requested:		
	Reconsults etc:		
	PC		
	WM		
	Press		
	Residents		
	Other		
	Reconsults/		
	Publicity on		
	Application?		
	Rejected:	.....	
	NOTES/Advice/Rejection Reason:		
	Include on Notice	☐	

PLANNING AMENDMENT

For office use only

Application No. H16/906/93

Date Registered

Case Officer

MM

1. Please complete in block letters

NAME AND ADDRESS OF APPLICANT

LONGHURST HOUSING ASSOCIATION LTD
FRIARS HOUSE SHODFRIARS OFFICE CENTRE
QUAKER LANE BOSTON Lincs PE21 6DZ

Tel. No. (0205) 354477

NAME AND ADDRESS OF AGENT

(if form completed by agent)

MELDRUM LEE & GILLATT
49 HIGH STREET
BOSTON Lincs PE21 8SP

Tel. No. (0205) 364795 (Contact) J A MERRETT

Please complete in block letters

FULL POSTAL ADDRESS OF THE APPLICATION SITE

LONGS WAREHOUSE DOUBLE STREET SPALDING Lincs

Please complete

EARLIER APPLICATION No.

This application cannot be considered
unless the relevant reference is stated

H16/0906/93

Building Regulation reference relating to
same development

2. Please tick **one** box only

Amendment is proposed where
permission already granted

If yes, submit two forms and two plans.

A

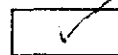


or

Amendment is to a proposal
currently being considered

If yes, submit four forms and four plans.

B



Has a similar amendment been submitted under Building Regulations?

Yes/No

Please complete

I attach the necessary plans and request that the changes described below be accepted as an amendment.
I understand that the Council may require a fresh application, together with fee if appropriate.

Signed

pp Meldrum Lee & Gillatt

Date 5. October 1993

3. Please complete in block letters

FULL DESCRIPTION OF DEVELOPMENT IN ORIGINAL APPLICATION

CONVERSION OF EXISTING WAREHOUSE INTO 16
SELF CONTAINED FLATS LONGS WAREHOUSE
CONVERSION OF NOS 45 & 47 DOUBLE STREET

State details of amendments proposed

(Give a full detailed list of the changes, and
also mark these clearly on the accompanying plans)

ROOF LINK PROPOSALS, AS ORIGINAL
APPROVAL

State drawing no's of the current submission

12275.57A and 59

Has this amendment been requested by the Council?
(If so, state Officer dealing with the application)

YES, MR MIDLEN. ROOF LINK TO BE CLAD IN
LEAD.

Describe any part of the original development
which is excluded by virtue of the amendment,
and state any alteration to plot numbers



Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management and Cost Consultants

49 High Street

Boston

Lincolnshire

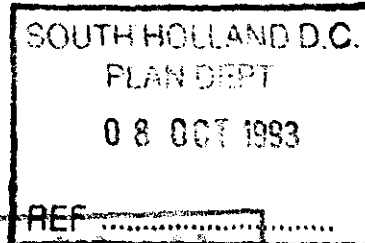
PE21 8SP

JAM/TAS/12275

7 October 1993

FOR THE ATTENTION OF MR N MIDLEN

South Holland District Council
Planning Department
Council Offices
Priory Road
SPALDING
Lincs



Telephone: 0205 364795

Fax: 0205 310842

Dear Sirs

**Application Ref H16/646/93 - Nos 45 48 and Longs Warehouse
and 14 No New Build Flats Double Street Spalding Lincs**

Further to your letter dated 28 September 1993 and the writers meeting with Mr N Midlen earlier this week, we write to confirm that following discussions with our clients we wish to accept your offer of deleting from the proposals the staircases to the rear of Nos 45 and 48 and the roof link to enable Planning Permission to be granted for the rest of the changes.

The following drawings are enclosed together with 2 copies of Planning Amendment Form :-

- LB ?
- 1) Revised roof link - 2 copies of drawing Nos 12275/57A - roof plan/section, 59 - leadwork plan, LDA 20 - lead ventilators, 60 - detail of lead roll ridge vent.
 - 2) Longs roof dormers - 12275/58. ? LB ?
 - X 3) Elevations indicating rear elevations to Nos 45 and 48 (with staircases) deleted, 12275/12G.
Revised floor plans to Nos 45 - 12275/22D.
Revised floor plans to Nos 48 - 12275/23D.

We note from our file that these drawings were submitted to your office as a Planning Amendment dated 28 September 1993 (with the original planning ref H16/0073/93).

As discussed with Mr Midlen, we have requested that a sample area of the existing render is removed from the rear of No 48 in order to determine the condition of the original brickwork. The size of the ground floor window to the rear of No 45 and it is drawn as the existing opening.

We trust that the foregoing will enable Planning Permission to be issued.

ALSO AT

Skegness

&

Grantham

PARTNERS

G.T. Lee, FRICS, MAPM

R.W. Lowe, RIBA

J.A. Merrett, RIBA

K.A. Holroyd, RIBA

ASSOCIATES

B. G. Hall, AMIAS

C.W. Mager, MBIAT

T.M. Robinson, AMSST

E.R. Sylvester, MBIAT

C.L. Silvester, MSST



ESTABLISHED

1900

2

7 October 1993

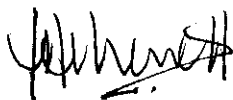
FOR THE ATTENTION OF MR N MIDLEN

South Holland District Council

We are currently working on the following items which you have requested further details and will submit as soon as possible:-

- 1) Confirmation of mechanical extract system to Longs Warehouse and roof and wall terminals as informal discussion with your Consultant Architect on 5 October.
- 2) Photographs of washer plates to be used on Longs Warehouse, samples inspected on site and verbally approved.
- 3) Details of low wall and railings to riverwalk boundary to rear of New Build section.

Yours faithfully



J A Merrett RIBA

Encs

cc Ms M Buckley Longhurst Housing Association Ltd



Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management and Cost Consultants

ENCLOSURES

Issuing Office 49 High Street Boston Lincs

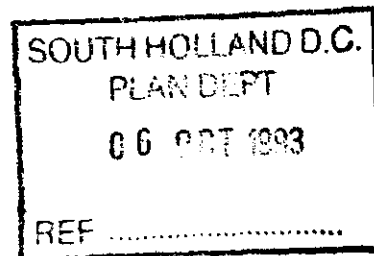
Client Longhurst Housing Association Ltd

Project Nos 45 48 & Longs Warehouse Double Street Spalding Lincs

Reference 12275

Date 5 October 1993

Item 2 copies of Planning Amendment Form
2 copies of drawing Nos 12275:57A and 59



Distribution FOR THE ATTENTION OF MR MIDLEN

South Holland District Council
Planning Department
Council Offices
Priory Road
SPALDING
Lincs

Signed

Meldrum, Lee & Gillatt
for Meldrum Lee & Gillatt

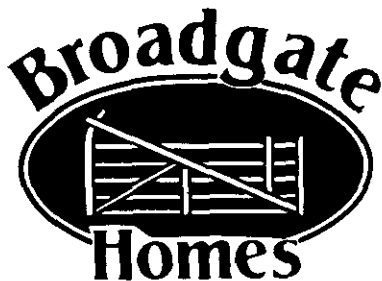
The detail submitted of the Longs Warehouse
Dormer is acceptable and the veranda to
the Link wot showing lead to the

With Compliments

Mary E. Kerr B.A., BSc., RIBA
Architect & Historic Buildings Consultant

S.H.D.C. PLANNING DEPT.	
RECEIVED	
- 1 OCT 1993	
Allocation of	File nos.
DRD - 12/14	
CDPD - 15	
AC - ACP	
Action by	Authorised by
Reviewed by	by
Copied to	by

Historic Buildings Consultancy, Manor Farm House, Spanby, Sleaford, Lincolnshire. NG34 0BB
Tel/Fax: (0529) 240415 Mobile: (0374) 275512



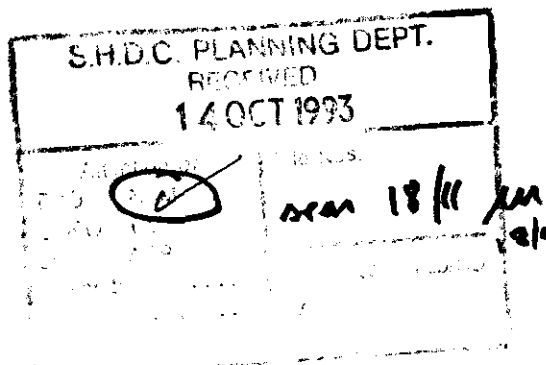
Broadgate Builders (Spalding) Limited

Broadgate House, Weston Hills, Spalding, Lincolnshire. PE12 6DL
Telephone: (0406) 380532
Fax: (0406) 380014

Ref RMGC0451

South Holland District Council
Council Offices
Priory Road
Spalding
Lincs.

Attn Mr Midlen



13th October 1993

Dear Sirs,

Re: Longs Warehouse, Double Street, Spalding, Lincs.

John Merrett of Meldrum Lee & Gillatt, has asked me to forward for your records, a photograph of the steel washer plates which we have used on Longs Warehouse.

Yours faithfully
BROADGATE HOMES (SPALDING) LIMITED


R.A. Mitchell
Contracts Manager

cc: John Merrett M.L.G.
File





Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management and Cost Consultants

49 High Street

Boston

Lincolnshire

PE21 8SP

Telephone: 0205 364795

Fax: 0205 310842

JAM/NAH/TAS/12275

22 September 1993

South Holland District Council
Planning & Building Control Department
Council Offices
Priory Road
SPALDING
Lincs



Dear Sirs

**Proposed Conversion of Longs Warehouse Double Street
Spalding to 16 No Flats**

Further to site visit on 10 September and your letter dated 21 September, we now enclose application for Listed Building Consent for remedial works and works of alteration effecting the character of Longs Warehouse.

We enclose 3 copies of the following drawings and documents to be considered which were submitted for Building Regulation Approval.

12275:12F - Elevations
12275:18C - Ground & First Floor Plans
12275:19C - Second & Third Floor Plans
12275:53, 55 & 56 - Upper Floor Construction Details
12275:57 - Roof Link Details

We also enclose copies of our Structural Engineers Report and details (some of these have been modified as a result of our recent site meeting).

We are currently investigating a revised layout for extraction ducts to be able to terminate the ducts in the central valley above the roof.

We would also like to confirm that the extent of re-building of the rear wall and gable wall as indicated on the elevations drawing.

Yours faithfully

J A Merrett RIBA

Encs

ALSO AT

Skegness

&

Grantham

PARTNERS

G.T. Lee, FRICS, MAPM

R.W. Lowe, RIBA

J.A. Merrett, RIBA

K.A. Holroyd, RIBA

ASSOCIATES

B. G. Hall, AMIAS

C.W. Mager, MBIAT

T.M. Robinson, AMSSST

E.R. Sylvester, MBIAT

C.I. Sylvester, MSST



ESTABLISHED

1900

IAN SMITH Dip TP MRTPI
Director of Planning & Building Control Services
Planning & Building Control Department,
Council Offices,
Priory Road, Spalding,
Lincolnshire. PE11 2XE
Telephone: (0775) 761161
Fax: (0775) 710772



Application no: H16/0906/93

Applicant: Longhurst Housing Assoc.
Shodfriars Office Centre,
Quaker Lane, Boston, & S.H.D.C
Priory Rd, Spalding & Broadgate
Builders, Weston Hills

Agent: Meldrum Lee & Gillatt
49 High Street
Boston
Lincs

Description: Conversion into 16
self-contained flats

Location: Longs Warehouse
Double Street
Spalding
Lincs

Type: LISTED BUILDING

Date received: 23-SEP-93

Extended Terminal Date: 01-DEC-93

PLANNING APPLICATION

-

SUMMARY RECORD (PART I REGISTER)

RIAN SMITH Dip TP MRTPI
Director of Planning & Building Control Services
Planning & Building Control Department,
Council Offices,
Priory Road, Spalding,
Lincolnshire. PE11 2XE
Telephone: (0775) 761161
Fax: (0775) 710772



Application no: H16/0073/93

Applicant: Longhurst Housing Assoc. Ltd. Agent: Meldrum Lee & Gillatt
Shodfriars Office Centre, 49 High Street
Boston and Broadgate Builders Boston
(Spalding)Ltd, Broadgate, Lincs
Weston Hills, Spalding.

Description: Conversion of No 45 & 48 to 4
flats, Longs Warehouse into 16
flats and erection of 14 new
self-contained flats

Location: 45 & 48 and Longs Warehouse
and vacant plot
Double Street,
Spalding

Amendment Submitted: New upper floor details (drawings 12275: 53, 55, 56)

15-SEP-93

Dear Sir/Madam

AMENDMENT TO PROPOSAL

I acknowledge receipt of your proposed amendment to the above proposal. Unfortunately, it is not clear exactly what your intention is regarding the amendment.

Please complete the enclosed forms.

Confirm which planning reference this proposal refers to.

Only when these details are provided can the Authority determine whether or not the changes can be accepted as an amendment, and a fresh application may still be required.

** Please return one copy of this letter with your reply.

Yours faithfully

B SMITH
Director of Planning and Building Control Services

PLANNING AMENDMENT RECORD SHEET

Validation:

Inadequate/Inappropriate
Valid as Amendment

ADMIN

DC

☒
☒

Clarification/Details required:

Planning Reference

DC Assessment

Senior
Officer

Case
Officer

Post

Immaterial

☐
☐

New Application
needed

☐
☐

Confirmed:

.....

.....

Current

Amendment in
principle?

Yes/No

Yes/No

Same desc/char?
(fee test)

Yes/No

Yes/No >

Initiated by LPA?
Dev objectives
paramount?

Yes/No

Yes/No

Authorised to proceed

.....

Details accepted, if less than
amendment requested:

Reconsults etc:

PC
WM
Press
Residents
Other

Checklist

Fee Liaison?

Site inspect?

BC Liaison?

Reconsults/
Publicity on
Application?

Rejected:

.....

NOTES/Advice/Rejection Reason:

Include
on Notice

☐



Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management and Cost Consultants

49 High Street

Boston

Lincolnshire

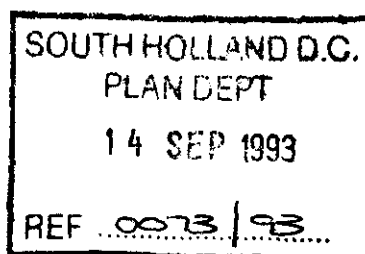
PE21 8SP

JAM/NAH/JC/12275

13 September 1993

FOR THE ATTENTION OF MR N MIDLEN

Planning Department
South Holland District Council
Council Offices
Priory Road
SPALDING
Lincs



Dear Sirs

Nos 45 48 & Longs Warehouse Double Street Spalding

Please find enclosed copies of drawing Nos 12275:53, 55 and 56 which indicate our proposals for the new upper floors within Longs Warehouse.

The relationship between the new joists and boarding and the original joists and boarding differs on each floor due to height restrictions caused by existing floor beams and existing ceiling ties within the roof together with the fact that existing floor joists are capable of taking ceiling loads only.

We trust the details are to your approval and you appreciate the governing factors of the existing structure.

Yours faithfully

p.p. J A Merrett RIBA

Encs

cc Broadgate Builders (Spalding) Ltd

Telephone: 0205 364795

Fax: 0205 310842

ALSO AT

Skegness

&

Grantham

PARTNERS

G.T. Lee, FRICS, MAPM

R.W. Lowe, RIBA

J.A. Merrett, RIBA

K.A. Holroyd, RIBA

ASSOCIATES

B. G. Hall, AMIAS

C.W. Mager, MBIAT

T.M. Robinson, AMSST

E.R. Sylvester, MBIAT

C.I. Silvester, MSST



ESTABLISHED

1900



Broadgate Builders (Spalding) Limited

Broadgate House, Weston Hills, Spalding, Lincolnshire. PE12 6DB.
Telephone: (0406) 380532
Fax: (0406) 380014

Ref RMGC0452

South Holland District Council
Council Offices
Priory Road
Spalding
Lincs

15th October 1993

Atn. Mr N. Midlen

Dear Sir,

Re: Longs Warehouse, Double Street, Spalding.

Today I have left in your offices two clay pantiles. They are samples from a reclaimed stock, which we intend to use (to make up the short fall) on the above project.

While we will take every care to ensure maximum recovery of the existing clay tiles, the replacements must be of first class quality, to ensure water tightness at this particular height.

Should these not meet with your approval, please contact me before Friday 29th October 1993.

Yours faithfully
BROADGATE HOMES (SPALDING) LIMITED

R.A. Mitchell
Contracts Manager

906/93

S.H.D.C. PLANNING DEPT. RECEIVED 15 OCT 1993	
Attention of BSC CDDO AS PC ASP	File No. 1811 1816
YES/NO YES/NO	

cc: John Merritt - Meldrum Lee & Gillatt
File





Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management and Cost Consultants

49 High Street

Boston

Lincolnshire

PE21 8SP

Telephone: 0205 364795

Fax: 0205 310842

NAH
JAM/NAH/TAS/12275

3 June 1994

Planning Department
South Holland District Council
Council Offices
Priory Road
SPALDING
Lincs

Dear Sirs

Longs Warehouse Double Street Spalding Lincs

Further to the telephone conversation between Mr Midlen and our Neil Hutson on 3 June 1994, with regard to external light fittings at the above, we now write to confirm the conversation as follows.

The two light fittings as fitted adjacent to the rear entrance door are acceptable. The temporary light fitting along the side of the warehouse is to be replaced with 1 No georgian style edwardian black style lantern to match the existing lamp standard on the site as previously agreed at the writers meeting with Mr Midlen in February of this year.

Yours faithfully

J A Merrett RIBA

cc Mr R Mitchell Broadgate Builders (Spalding) Ltd

ALSO AT

Skegness

&

Grantham

PARTNERS

G.T. Lee, FRICS, MAPM

J.A. Merrett, RIBA

J.S. Gillett, RIBA

ASSOCIATES

B.G. Hall, AMIAS

C.W. Mager MBIAT

T.J. Newton, ABIAT

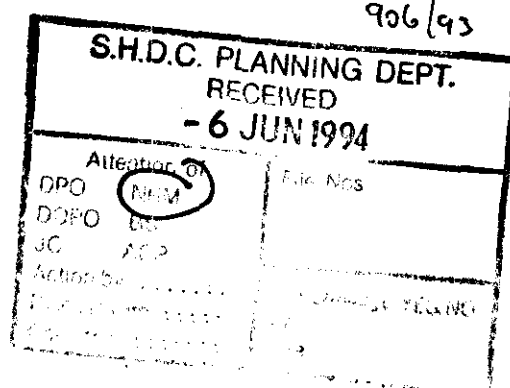
T.M. Robinson, AMSST

C.L. Silvester, MSST



ESTABLISHED

1900





Meldrum Lee & Gillatt
 Architects, Quantity Surveyors
 Management & Cost Consultants
 49 High Street, Boston, Lincolnshire PE21 8SP
 Telephone: 0205 364785 Fax: 0205 310842

Job No.

12275

Date

27 MAY 94

From

J. MERRETT

Project

LANC'S WAREHOUSE,
 DOUBLE ST.
 SPALDING.

To

NIGEL MILDEN.

Of

SHDC PLANNING DEPT.

PLEASE CAN YOU CONFIRM THAT THE EXTERNAL
 LIGHTING AS INSTALLED AT THE ABOVE IS
 ACCEPTABLE.

906/93

SHDC PLANNING DEPT.

27 MAY 94



confirmed by plan of the door
 type (building door) not
 to be a problem
 J.M.
 3/1

We are transmitting _____ pages
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MLG 029/A

SECOND FLOOR CONSTRUCTION DETAIL

SOUTH HOLLAND D.C.
PLAN DEPT.
23 SEP 1993
REF ..0905/93...

18mm chipboard, joists covered, floor boarded
to 19mm plasterboard at 300mm centres.
25mm resilient underlaid as before and 12mm linoleum tile.

SOILDOWN FLOOR JOISTS
AS 400mm C/C ASSUMED
OVER EXISTING BEAMS.
FUTURE BOARDING DETAIL.

100mm MINERAL FIBRE
INSULATED JOISTS AS BEFORE.
50x78 JOIST FELD
TO EXISTING JOISTS.

TAPERED FLOOR JOISTS
PAINTED OVER JOISTS
TO LEVEL NEW FLOOR.
WHERE EXISTING BEAMS
4 JOISTS MADE PARALLEL.

30mm PLASTERBOARD & SKIN
AS BEFORE.

EXISTING JOISTS TO REMAIN
TO TAKE CEILING LOADS ONLY.
TO BE REPAIRED WITH MORTAR AS BEFORE.



Meldrum Lee & Gillatt
Architects & Quantity Surveyors

LONGS WAREHOUSE
REVISED SECOND FLOOR DETAIL

Date

AUG. 1993

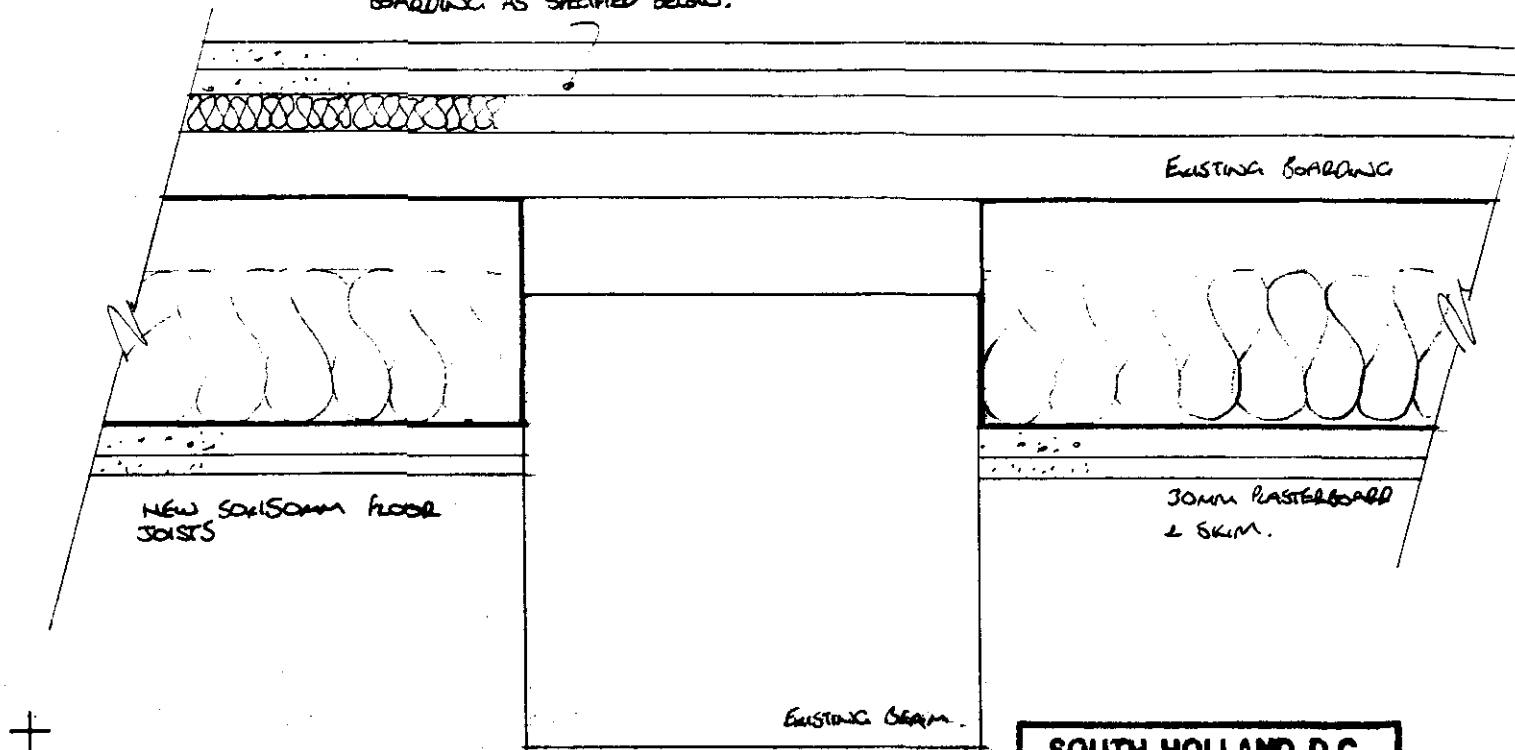
Scale

1:5

No.

12275:53

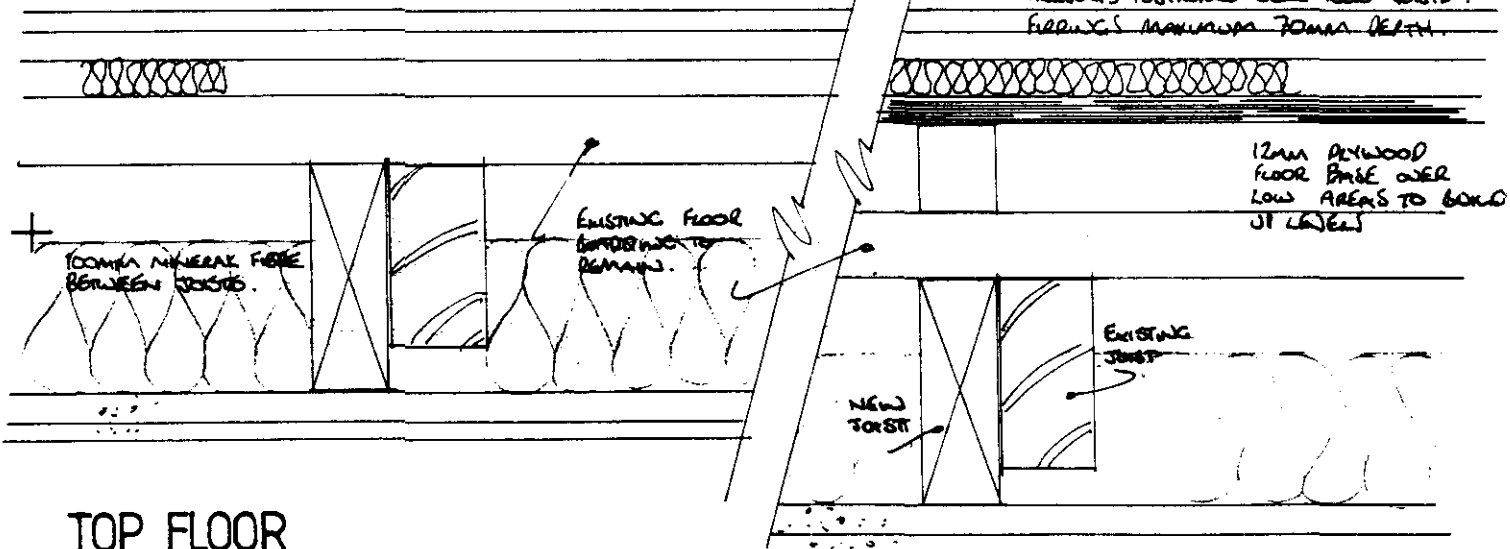
FLOORING LAYER OVER EXISTING
BOARDING AS SPECIFIED BELOW.



**SOUTH HOLLAND D.C.
PLAN DEPT.**
23 SEP 1993
REF 0906.193....

18mm chipboard, JOISTS GIRDLED, SPOT BONDED TO PLUM
PLASTERBOARD AT 300mm CENTRES. 25mm RESILIENT
LAYER OVER EXISTING FLOORBOARDING.

12mm PLYWOOD OVER
TIMBER FLOORING TO
LOWEST AREAS.
FLOORING POSITIONED OVER NEW JOISTS.
FLOORING MATCHED TO 70mm DEPTH.



**TOP FLOOR
CONSTRUCTION DETAIL**



Meldrum Lee & Gillatt
Architects & Quantity Surveyors

LONGS WAREHOUSE
REVISED THIRD FLOOR DETAIL

Date
SEPT. 93

Scale
1:5

No.
12275:55

FIRST FLOOR CONSTRUCTION DETAIL

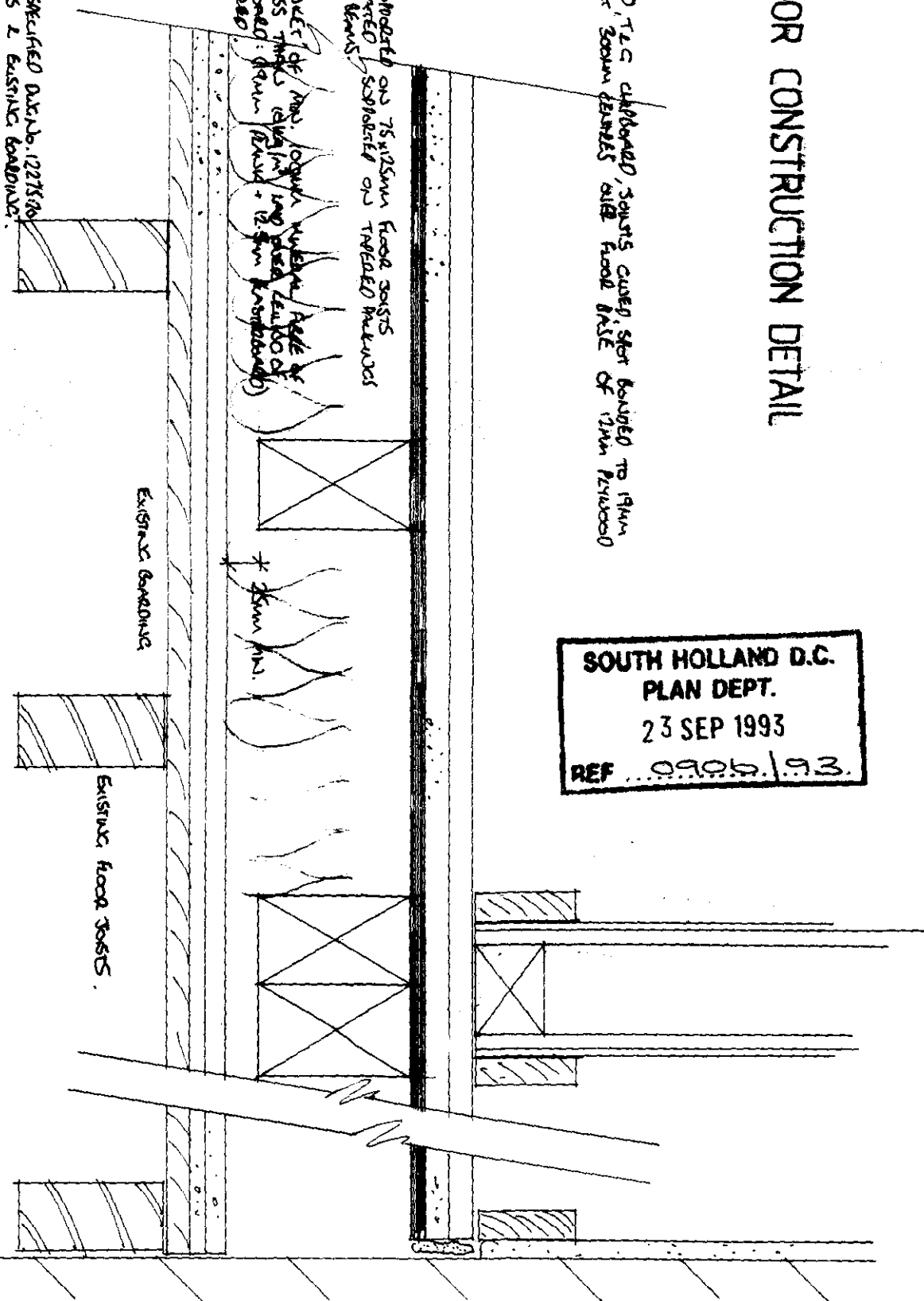
18mm chipboard, T.C. chipboard, 30mm's covered floor boards to 19mm
 installed at 30mm centres side floor base of 12mm plywood

SOUTH HOLLAND D.C.
 PLAN DEPT.
 23 SEP 1993
 REF 0905/93

NEW FLOOR, SUBFLORED ON 75mm FLOOR JOISTS
 RESISTANCE TREATED, SUBFLORED ON TREATED PLYWOOD
 OVER EXISTING BEAMS

ADJACENT QUARTER OF 100mm RUBBER FLEECE OF
 DENSITY NOT LESS THAN 100kg/m³ AND AREA LEAST OF
 30mm WIDE (100mm x 12mm WIDE) (100mm x 12mm WIDE)
 JOISTS EXPOSED

'MULTIFIRE' AS SPECIFIED DULAB 12275/90
 TO EXISTING JOISTS & EXISTING BOARDING



PARTIALS CARRYING THROUGH FLOORS,
 EXISTING WALLS ARE BORN TO HAVE THE
 FOLLOWING:
 1. 100mm GAP TO BE LEFT BETWEEN UNITS OF
 SUBFLOOR & FLOORING LAYER
 2. 100mm GAP TO LEFT AROUND THE FLOORING
 CEILING'S AROUND THE UNITS TO BE SEEN
 WITH TOP OF CASING
 3. 100mm GAP FILL WITH RUBBER FLEECE
 DENSITY 100-140kg/m³.
 DENSITY 100-140kg/m³.



Meldrum Lee & Gillatt
 Architects & Quantity Surveyors

LONGS WAREHOUSE
 REVISED FIRST FLOOR DETAIL

Date
SEPT. 93

Scale
1:5

No.
12275:56

EXISTING RIDGE HEIGHT.

50x125mm RAFTERS + CEILING JOISTS
AT 300mm CENTRES.

CODES LEAD CONNECTION
TO ROOF TEL.

TIMBER OR STEEL?
POSSIBLE.

VIEW+ GCL 308
780x1400.

VIEW+ GCL 206 (640 x 1180)

SECTION

APPROX 2200mm.

PASTILE ROOF CONNECTIONS
TO END SLOPES OF LINK
AS ELSEWHERE.

203x133x25 U.B. (POSSIBLE)

SOUTH HOLLAND D.C.
PLAN DEPT.

23 SEP 1993

REF ..0906..93...

NEW BEAM TO BE SUPPORTED FROM
U.B. PORTALS ON EXISTING ROOFS.

GCL 206

GCL 206

GCL 206
(206)

ROOFPLAN

203x133x25 U.B. (POSSIBLE)

POSITION OF VALLEYS & NEW BEAM
DICTATED BY THE NEED FOR VIEW+
ROOFLIGHTS OVER THE STOREWELL.



Meldrum Lee & Gillatt

Architects, Quantity Surveyors
Management & Cost Consultants

LONGS WAREHOUSE DOUBLE ST SPALDING
REVISED LINK ROOF

Date SEPT. 93

Scale 1:50

Drawn by M. L. G.

Checked by

No. 12275:57

PRELIMINARY

EXISTING ROOF HEIGHT.

RATERS & CEILING JOISTS ARE 300MM CENTRES TO BE MIN. 50x25MM. TOTAL DEPTH OF BATTRES & BATTRES BATTED TO UNDERLIE TO EQUAL 200MM TO ALLOW 50MM AIR GAP OVER THE 150MM FOREGLASS INSULATION.

CODE 5 LEAD ROOF COVERINGS AS DWG. No. 12275:59 OVER 9mm PLYWOOD. 150mm FIBREGLASS INSULATION BETWEEN JOISTS (BATTRES). 12.5mm DUPLEX BASTED L & GUM TO CEILING.

CODES LEAD COVERING TO ROOF TOP & SIDES

TIMBER OR STEEL? (POLL.)

SECTION

VIEW CGL 308 780x1400.

VIEW CGL 206 (640x1180)

SEE SEC DETAIL FOR ROOF MEMBER SUPPORT 2x10 50x25mm WITH M.S PLATE IMBEDDED BETWEEN.

APPROX. 2200MM

LEAD ROOF COVERINGS TO END SLOPES OF LINK AS ELSEWHERE.

EXISTING WALL BATTRES TO SUPPORT INSULATION.

SEE DWG. No. 12275:59 FOR LEAD COVERINGS.

203x133x25 U.B. (POLL.)

Ref.

NEW BEAM TO BE SUPPORTED FROM U.B. ROOFINGS BY EXISTING ROCKS & NEW BLOCK WALL.

VALLEY COMBS OVER EXISTING BATTRES.

ROOFPLAN

203x133x25 U.B. (POLL.)

POSITION OF VALLEYS & NEW BEAM DICTATED BY THE NEED FOR VIEW ROOFLIGHTS OVER THE STOREWELL.

REV A 9/93 PARTIES OMITTED CODE 5 LEAD COVERING TO SIDES + TOP OF LINK



Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management & Cost Consultants

LONGS WAREHOUSE DOUBLE ST. SPALDING
REVISED LINK ROOF

Date SEPT. 93

Scale 1:50

Drawn by N. J. A. L.

Checked by

No. 12275:57.A

EXISTING ROOF HEIGHT.

50x125mm RAFTERS & CEILING JOISTS
AT 300mm CENTRES.

COSES LEAD CORNER
TO ROOF TOP.

TIMBER OR STEEL?
POSSIBLE.

VIEW CGL 308
780x1400.

VIEW CGL 206 (1600 x 1180)

SECTION

APPROX 2200mm.

LEAD ROOF CORNERS
TO END SLOPES OF LINK
AS ELSEWHERE.

APPROX 2200mm.

Ref.

SOUTH HOLLAND D.C.
PLAN DEPT.

06 OCT 1993

REF H16/0906/93...

203x133x25 U.B. POOLING.

NEW BEAM TO BE SUPPORTED FROM
U.B. PORTALS TO EXISTING ROOFS.

CGL 206

CGL 206

CGL 206
(206)

ROOFPLAN

203x133x25 U.B. POOLING.

POSITION OF VALLEYS & NEW BEAM
DETERMINED BY THE NEED FOR VIEW
ROOFLIGHTS OVER THE STOREWELL.

REV A 2/03 PARTIAL STRUT COSE & SLE (SEE DRAWING) TO 300mm - 100mm - 100mm



Meldrum Lee & Gillatt

Architects, Quantity Surveyors
Management & Cost Consultants

LONGS WAREHOUSE DOUBLE ST. SPALDING
REVISED LINK ROOF

Date SEPT. 93

Scale 1:50

Drawn by J. HALL

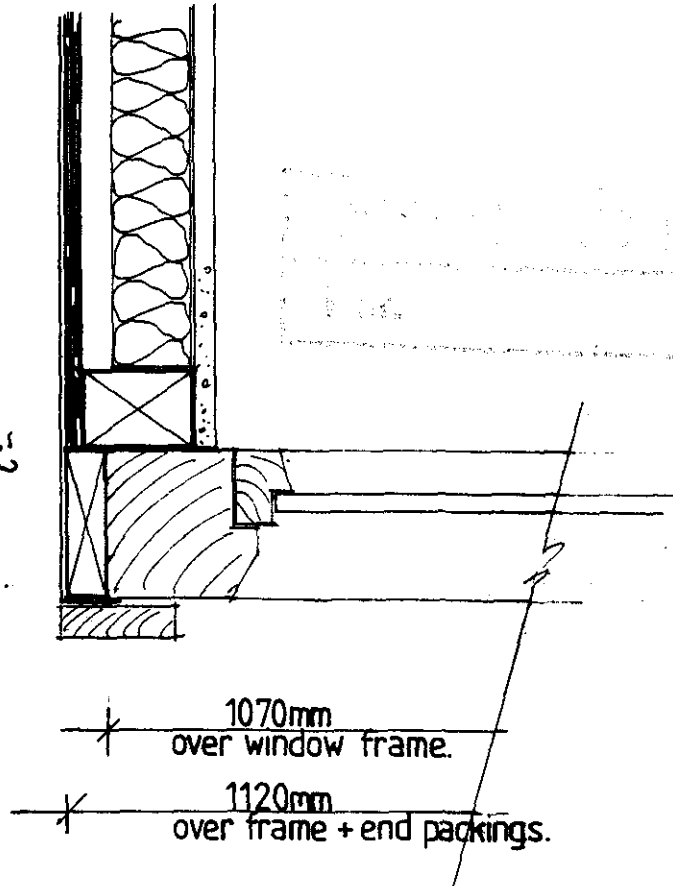
Checked by

No. 12275:57.A.
PRELIMINARY

SECTION ON PLAN

25mm THICK TIMBER PACKING
PLANTED TO ENDS OF WINDOW
FRAME.

CODE 5 LEAD TO CURBS TO
TURN IN BEHIND CORNER
TRIM ON FRAMES OF DOOR.



SECTION

all to match profile of existing.
25mm ROOF VENTILATION WITH MESH
INSIDE SCREEN.

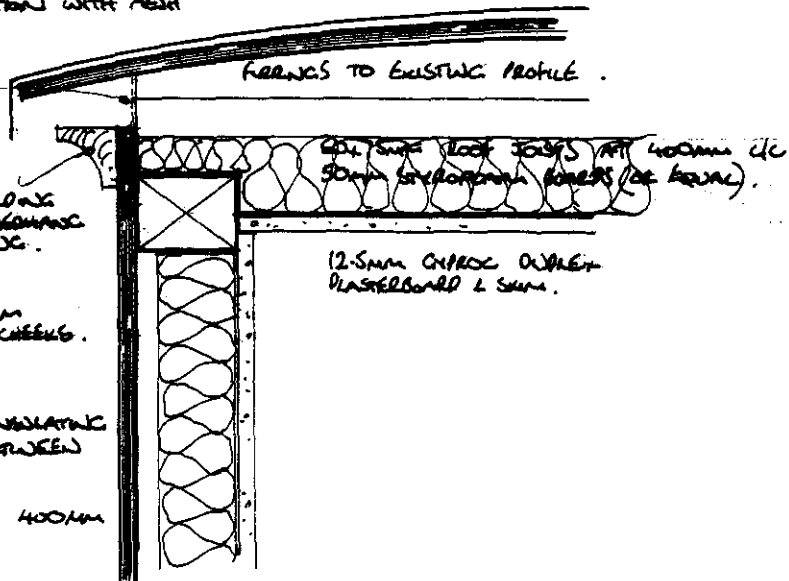
CODE 5 LEAD ROOF COVERING
OVER 12mm SHEATHING PLY.

TIMBER SCOTIA ROUNDED
BELOW PERIMETER OVERHANG
OF ROOF AS EXISTING.

CODE 5 LEAD ON 9mm
SHEATHING PLY TO CURBS.

50mm STYROFOAM INSULATING
BOARDS (OR EQUIV) BETWEEN
STUDS.

50x75mm STUDS AT 400mm
CENTRES.



Meldrum Lee & Gillatt

Architects, Quantity Surveyors
Management & Cost Consultants

LONGS WAREHOUSE DOUBLE ST SPALDING.
DORMER DETAILS

Date SEPT '93

Scale 1:5

Drawn by N.A.H.

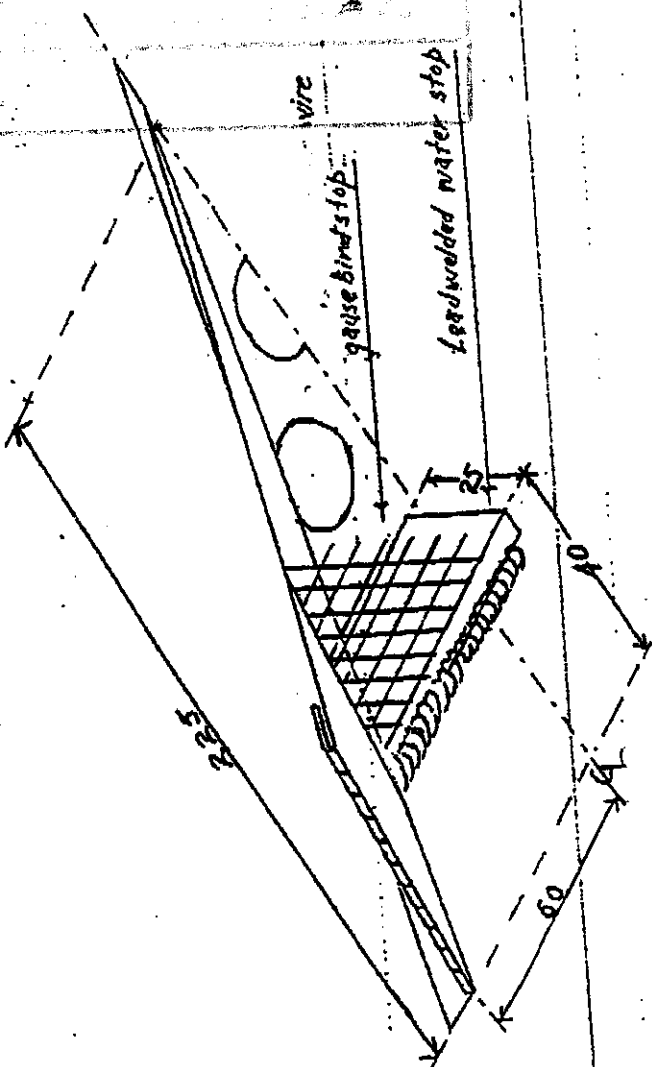
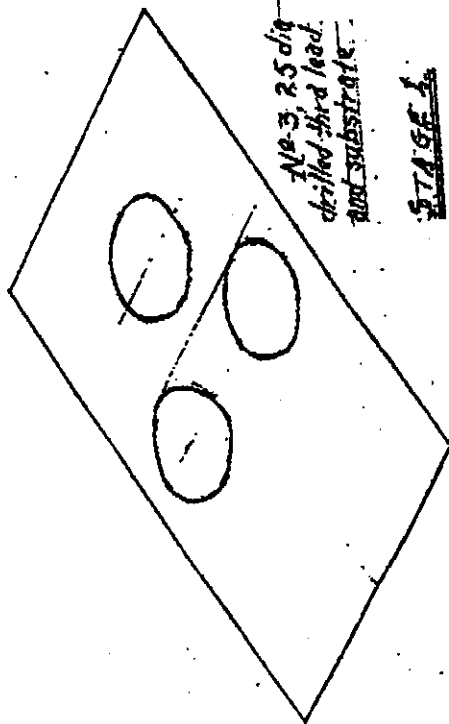
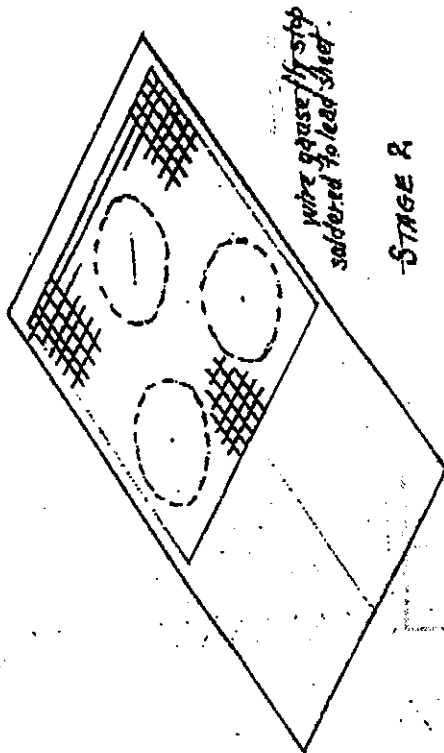
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No.

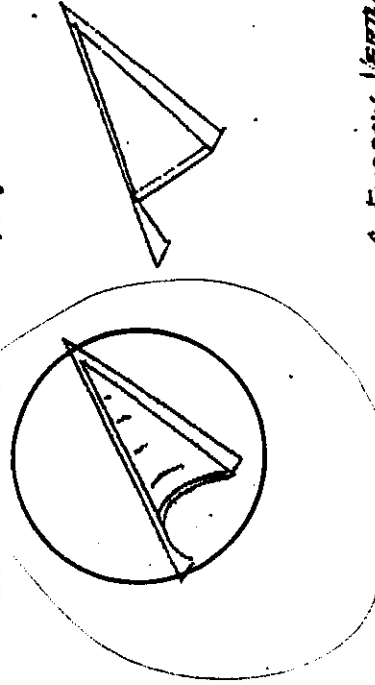
12275:58

C to M. Kew

59



ELBOW VENTILATOR.



DIAGRAMMATIC DESIGN OF EYEBROW VENTILATORS

USING 6005 S LEAD SHEET.

L.D.A. 855
Dyb.

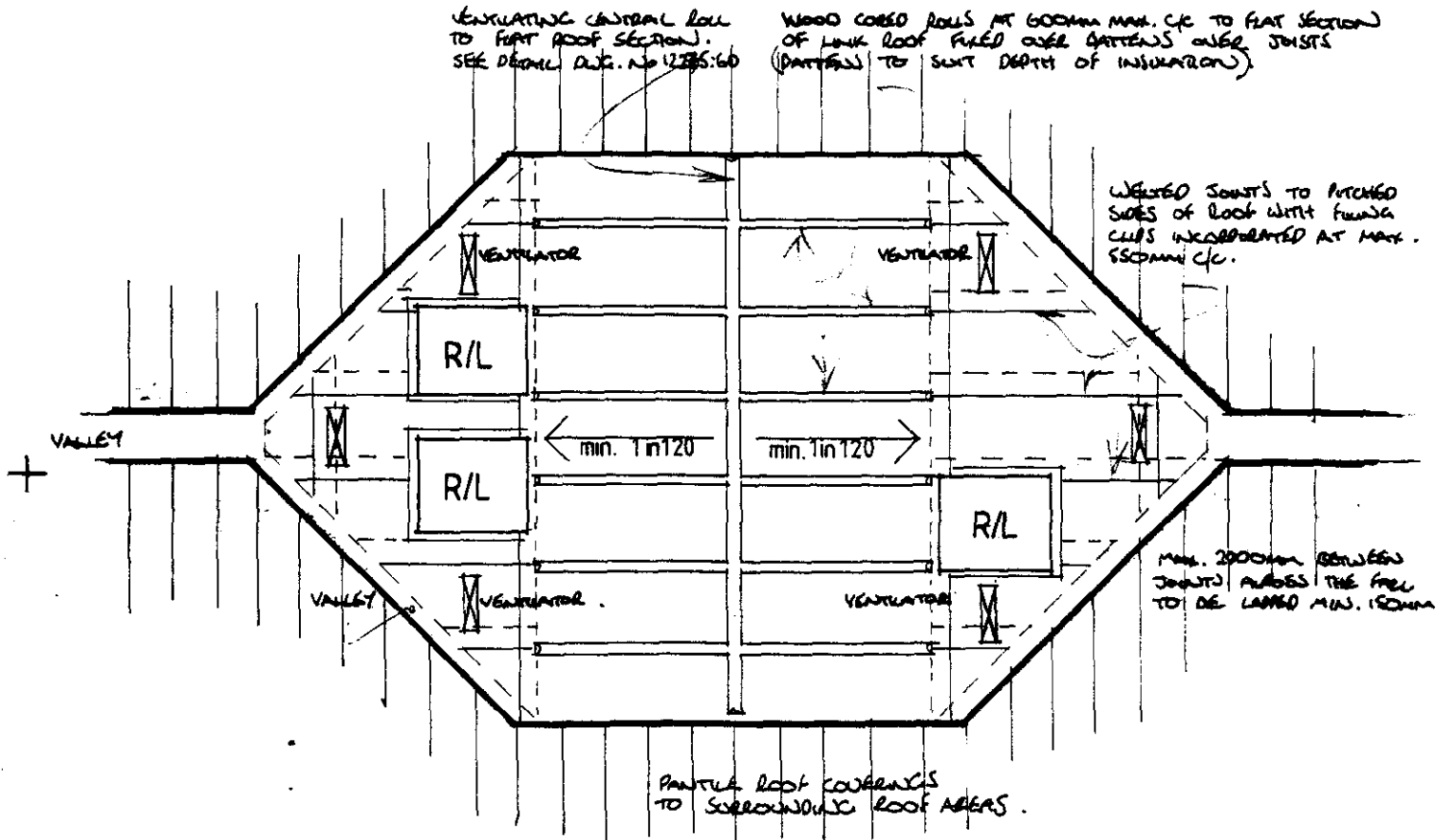
FOR ROOF PITCHES
AT & ABOVE 20°

CODE 5 LEAD ROOF COVERINGS FIXED ALL IN ACCORDANCE WITH LEAD SHEET ASSOCIATION INFORMATION.
 WOOD CORED ROLLS TO FLAT AREA OF ROOF LINK AT MAX. 600MM C/C
 WELDED JOINTS DOWN SLOPES OF PITCHED SIDES AT MAX. 600MM C/C INCORPORATING CLIP FININGS AT 550MM C/C.
 JOINTS IN LEAD LENGTH AT MAX. 2000MM C/C & TO BE LAPPED MIN. 150MM.
 VENTILATION:
 TWO EXTERNAL ROOF VENTILATORS TO EACH SLOPE AS INDICATED TO BE EXTENSIVE ROOF VENTILATOR (E.R.V.) BY CAVITY TRAYS LTD (OR EQUAL) MANUFACTURED FROM LEAD TO BS 1178:1982.
 CENTRE WOOD CORED ROLL OF FLAT ROOF SECTION TO BE UNSTRUCTURED 25MM CONTINUOUS.

SOUTH HOLLAND D.C.
 PLAN DEPT.
 06 OCT 1993
 REF. H16/0906/93

VENTILATING CENTRAL ROLL TO FLAT ROOF SECTION.
 SEE DETAIL D.C. NO 1235:60

WOOD CORED ROLLS AT 600MM MAX. C/C TO FLAT SECTION OF LINK ROOF FIXED OVER PATTERNS OVER JOISTS (PATTERNS TO SUIT DEPTH OF INSULATION).



Meldrum Lee & Gillatt

Architects. Quantity Surveyors
 Management & Cost Consultants

LONGS WAREHOUSE DOUBLE ST. SPALDING

REVISED ROOF LINK

Date SEPT. 93

Scale 1:50

Drawn by N.J.H.

Checked by

No.

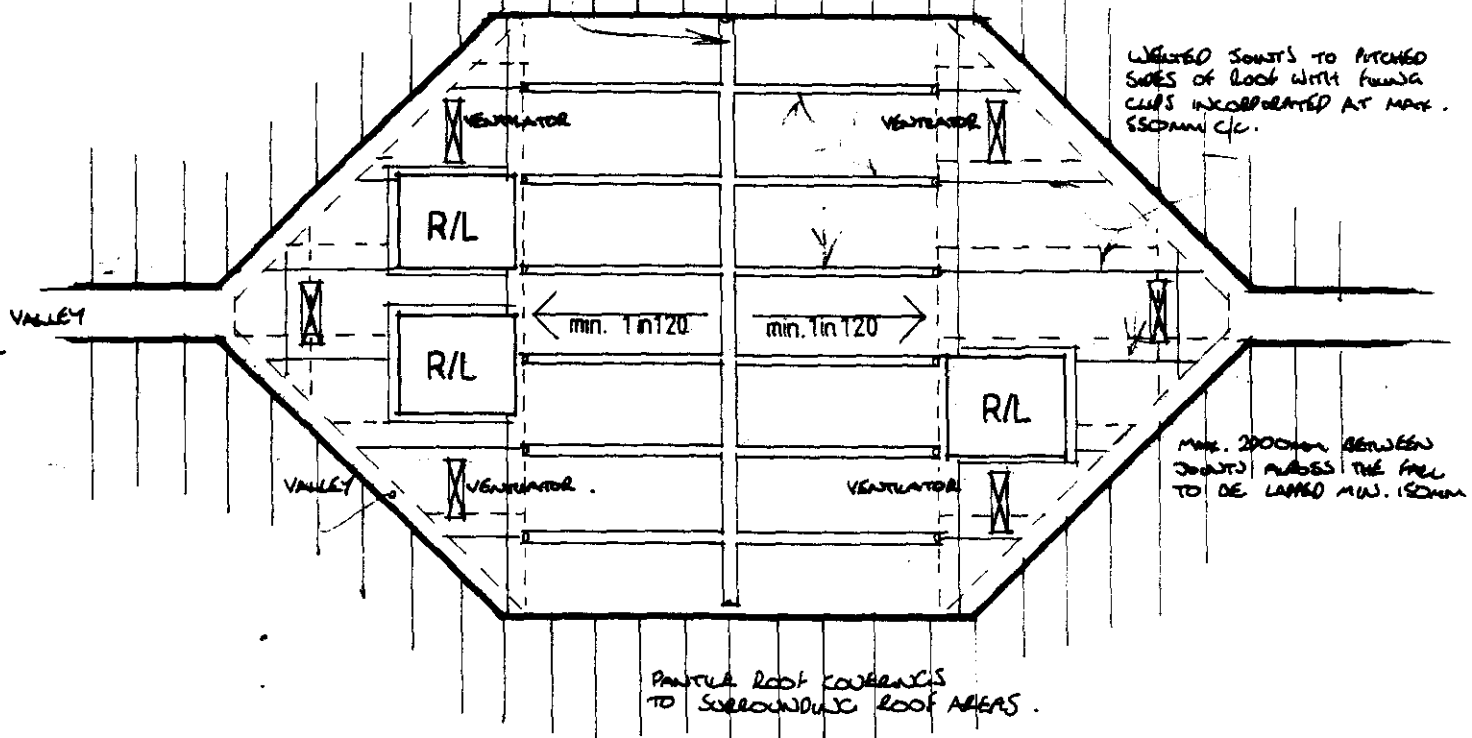
12275:59

PRELIMINARY.

CODE 5 LEAD ROOF COVERINGS FIXED ALL IN ACCORDANCE WITH LEAD SHEET ASSOCIATION INFORMATION.
WOOD CORED ROLLS TO FLAT AREA OF ROOF LINK AT MAX. 600MM C/C
WEIRED JOINTS DOWN SLOPES OF PITCHED SIDES AT MAX. 600MM C/C INCORPORATING CLIP FININGS AT 550MM C/C.
JOINTS IN LEAD LENGTH AT MAX. 2000MM C/C & TO BE LAPPED MIN. 150MM.
VENTILATION:
3x60 EXTERNAL ROOF VENTILATORS TO EACH SLOPE AS INDICATED TO 66 EXHIBIT VENTILATORS CONSTRUCTED AS L.D.A. RECOMMENDATIONS USING CODE 5 LEAD SHEET.
CENTRE WOOD CORED ROLL OF FLAT ROOF SECTION TO BE VENTILATED 25mm CONTINUOUS.
SEE A/C No. 12275:60 FOR DETAIL.

VENTILATING CENTRAL ROLL TO FLAT ROOF SECTION.
SEE DETAIL A/C No. 12275:60

WOOD CORED ROLLS AT 600MM MAX. C/C TO FLAT SECTION OF LINK ROOF FIXED OVER PATTERNS OVER JOISTS (PATTERNS TO SUIT DEPTH OF INSULATION)



Meldrum Lee & Gillatt

Architects, Quantity Surveyors
Management & Cost Consultants

LONGS WAREHOUSE DOUBLE ST. SPALDING

REVISED ROOF LINK

Date SEPT. 93

Scale 1:50

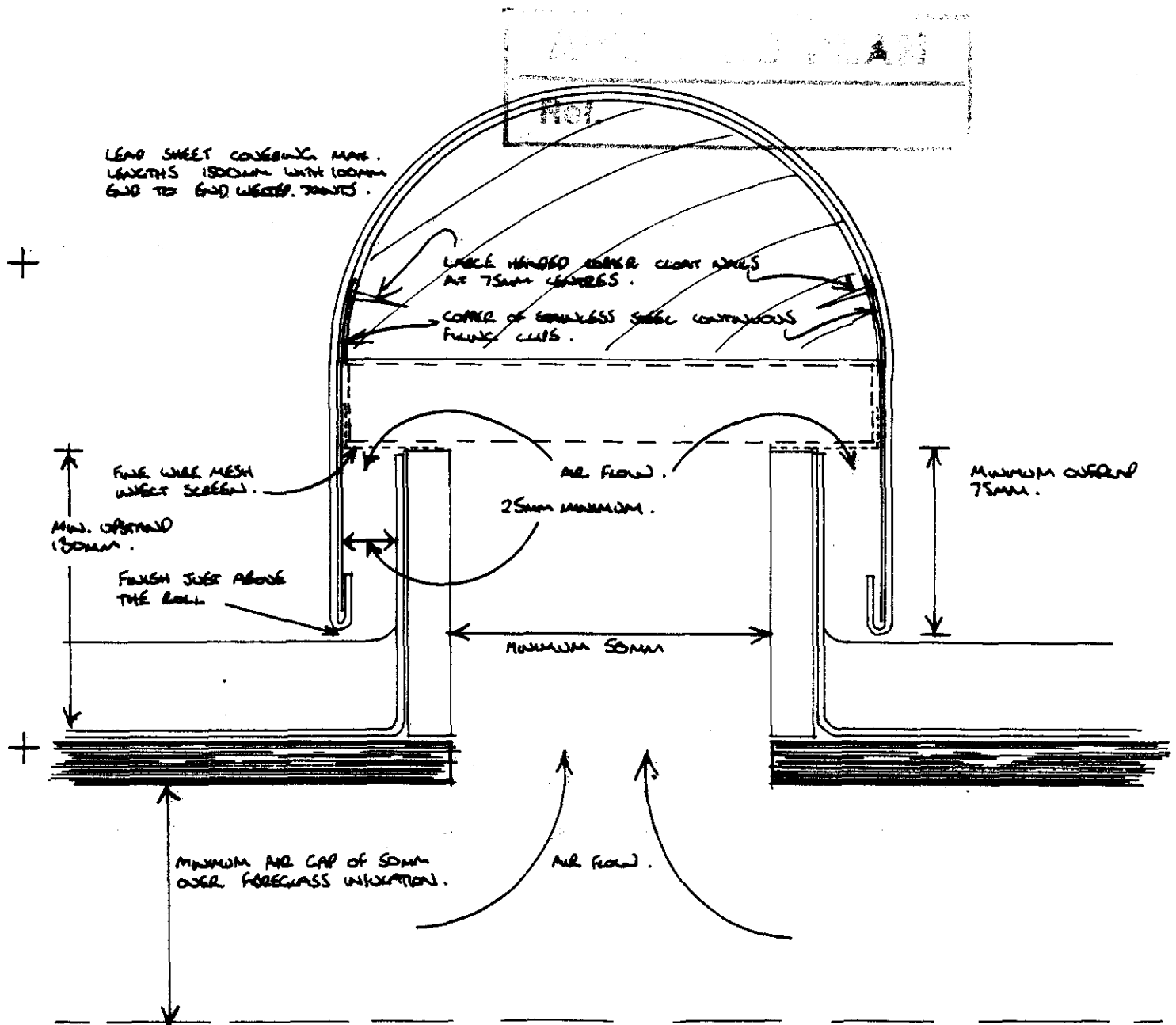
Drawn by NAT.

Checked by

No.

12275:59

DETAIL RIDGE VENTILATION TO FLAT ROOF AREA



Meldrum Lee & Gillatt
Architects, Quantity Surveyors
Management & Cost Consultants

LONG'S WAREHOUSE DOUBLE ST. SPALDING.
REVISED LINK ROOF

Date SEPT. 93

Scale N.T.S.

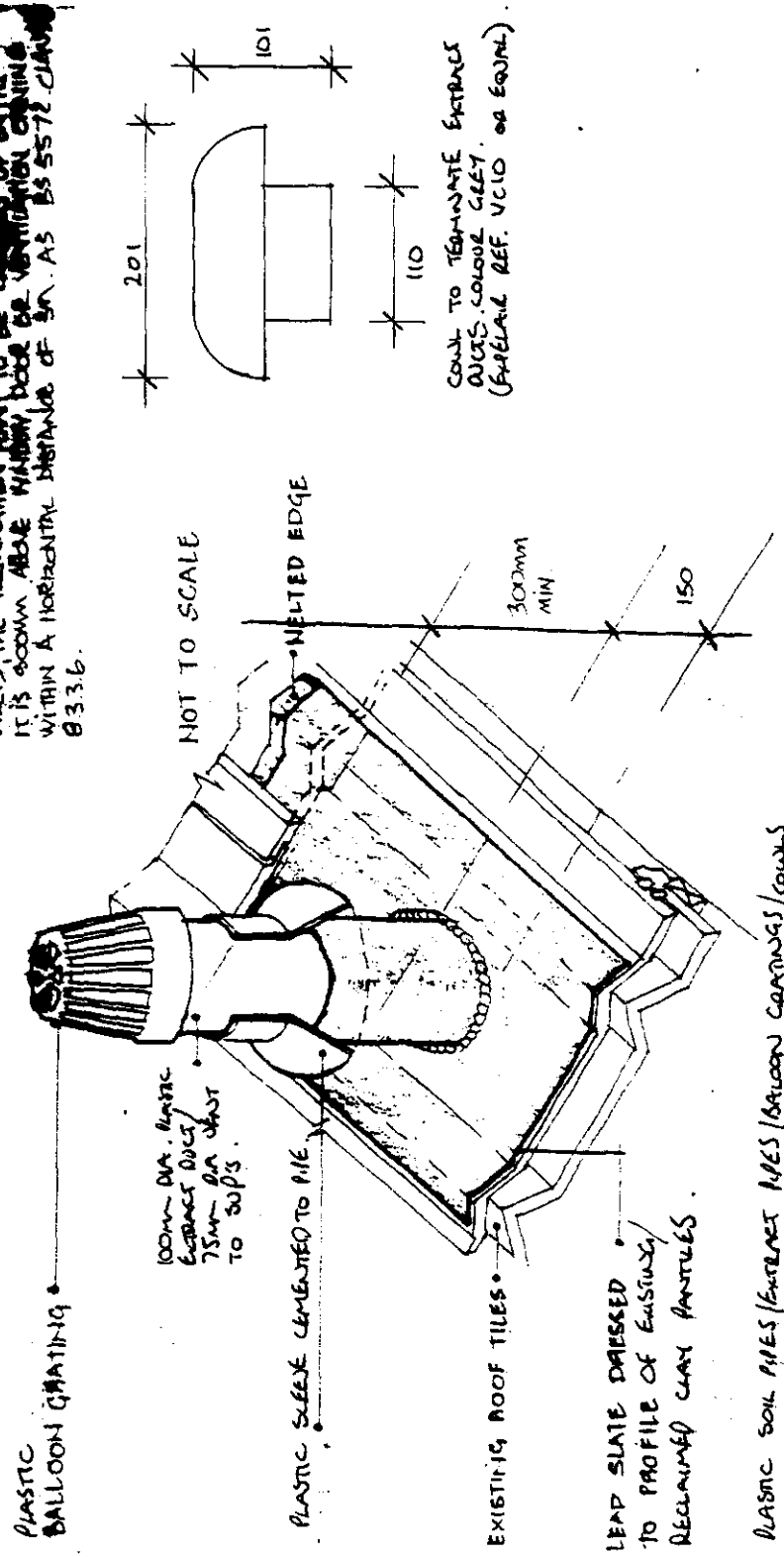
Drawn by J.H.T.

Checked by

No. 12275:60

NOTE:

DETAIL INDICATED IS FOR A TYPICAL VENT PIPE TERMINATION. WHERE NECESSARY TO WIND UP OR DOWN, THE TERMINATION MUST BE TO THE CENTER OF VENTILATION KILNS. IT IS 800MM ABOVE WINDOW DOOR OR VENTILATION OPENING WITHIN A HORIZONTAL DISTANCE OF 3M. AS BS 5572 CLASS B336.



COUL TO TERMINATE EXTRACT DUCTS. COLOUR GREY. (FURTHER REF. VC10 OR EQUIV.)

LEAD SLATE DETAIL TO VENT PIPES/ N.T.S. EXTRACT DUCTS



Meldrum Lee & Gillatt
Architects. Quantity Surveyors
Management & Cost Consultants

LONGS WAREHOUSE DOUBLE ST
SPALDING

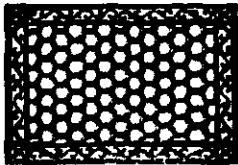
Date OCT. '93
Scale N.T.S.

Drawn by
Checked by

No. 12275:62

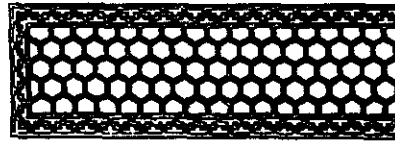
Grey Iron Gratings

G 025 Ornamental



Old Ball. Cat. No.	New Ball. Cat. No.	Length (mm)	Width (mm)	Thickness (mm)	Weight (kgs)
2	G 025	152	152	11	1.5
2	G 025	229	152	11	2
2	G 025	305	152	11	2.2
2	G 025	381	152	11	3
2	G 025	610	152	11	4.5
2	G 025	381	229	11	4.5
2	G 025	610	229	11	6.3
2	G 025	305	305	11	3.8
2	G 025	457	305	11	6.5
2	G 025	610	305	11	8.6
2	G 025	610	381	11	10
2	G 025	914	914	11	46
2	G 025	914	305	13	13.6
2	G 025	914	610	13	26
2	G 025	914	686	13	27

G 026 Ornamental



Old Ball. Cat. No.	New Ball. Cat. No.	Length (mm)	Width (mm)	Thickness (mm)	Weight (kgs)
3	G 026	914	305	13	13
3	G 026	914	381	13	17
3	G 026	914	305	16	19
3	G 026	1219	305	16	30
3	G 026	914	229	18	25
3	G 026	914	457	18	30
3	G 026	914	914	18	57
3	G 026	610	457	19	22.2
3	G 026	914	610	19	36

G 027 Ornamental



Old Ball. Cat. No.	New Ball. Cat. No.	Length (mm)	Width (mm)	Thickness (mm)	Weight (kgs)
4	G 027	229	229	10	2
4	G 027	914	457	10	13.5
4	G 027	229	152	11	1.5
4	G 027	914	279	13	13
4	G 027	1016	610	18	31.5

MELG Meldrum Lee & Gillatt
 Architects, Quantity Surveyors
 Management & Cost Consultants
 49 High Street, Boston, Lincolnshire PE21 8SP
 Telephone: 0205 364795 Fax: 0205 310842

Job No.

12275.

Date

24/9/93

To

NIGEL MOLEN/MARY KERR.

From

N. Hutton

Of

SHDC
PLANNING DEPT.

Project

LOND'S WAREHOUSE
DOODLE ST. SPARKING.

PLEASE FIND ATTACHED COPY OF PRELIMINARY DRAWING
 12275:58 INDICATING ROOFER DETAILS.

WE WOULD APPRECIATE YOUR URGENT COMMENTS/
 APPROVAL TO THE ATTACHED DRAWING TOGETHER
 WITH COMMENTS TO THE A/C. PREVIOUSLY SENT
 INDICATING THE ROOF LINE DETAILS (ATTACHED).

WE LOOK FORWARD TO HEARING FROM YOU.

NH

S.H.D.C. PLANNING DEPT.

RECEIVED

24 SEP 1993

Attention of

DPO NDM

File Nos.

DOPO ES

JC ACP

Action by

Acknowledge YES/NO

Discuss with

By

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Date

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MELG 029/A

External Roof Details.

SOILSUN RAFTERS & CHINEE JOISTS
AT JOINTS CHANGES.

COOKS LEAD CONTAINS
TO LEAD JOINT.

TIMBER OF STEEL?
ROOFING.

VIEWER CCL 208
750 x 400

VIEWER CCL 206 (400 x 1180)

SECTION

ADDITION 2200mm.

LEAD ROOF CONTAINS
TO END SLOPES OF LINE
AS ELSEWHERE.

203 x 128 x 25 U.B. (40mm)

NEW BEAM TO BE SUPPORTED FROM
O.B. JOISTS & EXISTING ROOF.

ROOFPLAN

203 x 128 x 25 U.B. (40mm).

POSITION OF VALLEYS & NEW BEAM
LOCATED BY THE NEED FOR VIEWER
ROOFING OVER THE SIDEWALL.



Meldrum, Lee & Gillatt
Architects, Quantity Surveyors
Management & Cost Consultants

LONGS WAREHOUSE DOUBLE ST SPALDING
REVISED LINK ROOF

Date SEPT. 93

Scale 1:50

Drawn by M.L.

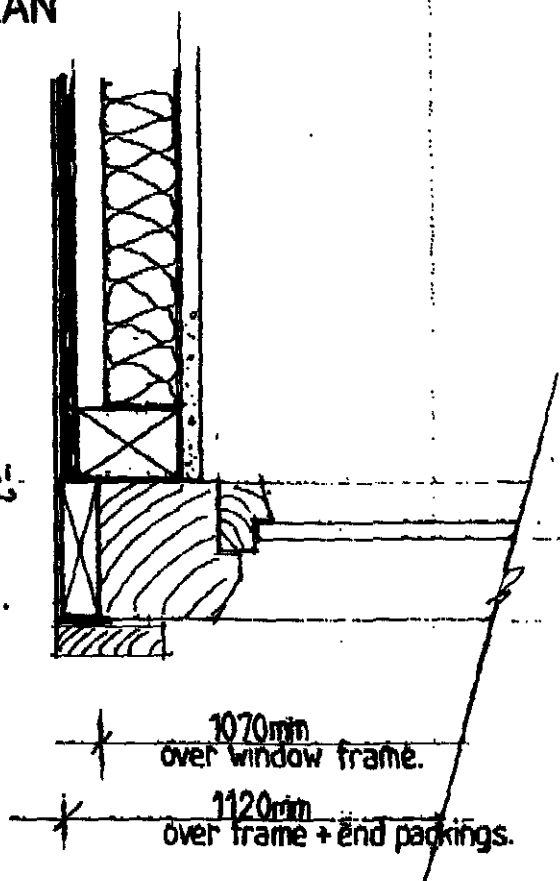
Checked by

No. 12275:57
PRELIMINARY

SECTION ON PLAN

25mm thick double glazed
glazed to roof of window
frame.

CODE 5 LEAD TO CUBES TO
FIX AS BEARING CODE
TYP ON FRONT OF DORMER.



SECTION

all to match profile of existing.

25mm roof structure with lead
water sheds.

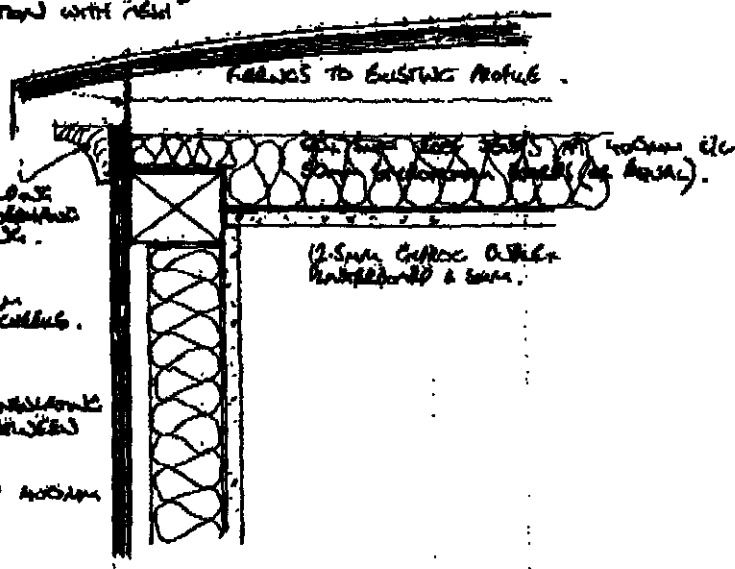
CODE 5 LEAD ROOF COVERING
OVER LEAD WATERSHEDS FIX.

25mm SCOTCH ROOFING
BEHIND GLAZED UNIT
OF ROOF AS EXISTING.

CODE 5 LEAD TO CUBES
FIXED TO CUBES.

25mm STRUCTURAL WALLBOARD
ROOF (OR EQUIV) BETWEEN
GLAZES.

50-70mm BRICKS AT ROOFLINE
CENTRES.



Meldrum Lee & Gillatt

Architects, Quantity Surveyors
Management & Cost Consultants

LONGS WAREHOUSE DOUBLE ST SPALDING
DORMER DETAILS

Date SEPT '93

Scale 1:5

Drawn by NAW

Checked by

No.

12275:58

(A. F. L. M. J. A. R. Y)

CODE 5 LEAD ROOF COVERINGS FIXED ALL IN ACCORDANCE WITH LEAD SHEET ASSOCIATION INFORMATION.
 WOOD CORED ROLLS TO FLAT AREA OF ROOF LINK AT MAX. 600mm C/C
 WEISED JOINTS DOWN SLOPES OF PITCHED SIDES AT MAX. 600mm C/C INCORPORATING CLIP FININGS AT 550mm C/C.
 JOINTS IN LEAD LENGTH AT MAX. 2000mm C/C & TO BE LAPPED MIN. 150mm.
 VENTILATION:
 TWO EXTERNAL ROOF VENTILATORS TO EACH SLOPE AS INDICATED TO BE EXBROW VENTILATORS CONSTRUCTED AS L.O.A. RECOMMENDATIONS USING CODE 5 LEAD SHEET.
 CENTRE WOOD CORED ROLL OF FLAT ROOF SECTION TO BE VENTILATED 25mm CONTINUOUS.
 SEE AISC No. 12275:60 FOR DETAIL.

AMENDED PLAN

Ref.

VENTILATING CENTRAL ROLL TO FLAT ROOF SECTION.
 SEE DETAIL AISC No. 12275:60

WOOD CORED ROLLS AT 600mm MAX. C/C TO FLAT SECTION OF LINK ROOF FIXED OVER GUTTERS OVER JOINTS (PATTERN TO SUIT DEPTH OF INSULATION)

WEISED JOINTS TO PITCHED SIDES OF ROOF WITH FINING CLIPS INCORPORATED AT MAX. 550mm C/C.

MAX. 2000mm BETWEEN JOINTS ACROSS THE PURL TO BE LAPPED MIN. 150mm

PANTLE ROOF COVERINGS TO SURROUNDING ROOF AREAS.



Meldrum Lee & Gillatt

Architects, Quantity Surveyors
 Management & Cost Consultants

LONGS WAREHOUSE DOUBLE ST. SPALDING

REVISED ROOF LINK

Date SEPT. 93

Scale 1:50

Drawn by NATH.

Checked by

No.

12275:59


Meldrum Lee & Gillatt

 Architects, Quantity Surveyors
 Management & Cost Consultants

 49 High Street, Boston, Lincolnshire PE21 8SP
 Telephone: 0205 364795 Fax: 0205 310842

Job No.

12275

Date

21/9/93

To

MR N MILDEN

From

N HUTSON

Of

SHDC
PLANNING DEPT

Project

LONG'S WAREHOUSE
PODGE ST
STANDEN

PLEASE FIND ATTACHED DETAILS OF REVISED ROOF
 LINK FOR YOUR URGENT COMMENT TO ENABLE US
 TO INCLUDE ROOF LINK DETAILS IF NECESSARY IN OUR
 REVISED LISTED BUILDING CONSENT APPLICATION.

THE LINK IS NOW ALONG THE LINES PREVIOUSLY
 APPROVED IN THE ORIGINAL LISTED BUILDING &
 PLANNING CONSENTS & WE WOULD APPRECIATE YOUR
 COMMENTS AS TO WHETHER THE ATTACHED DETAILS
 WOULD BE ACCEPTABLE UNDER THE ORIGINAL CONSENTS

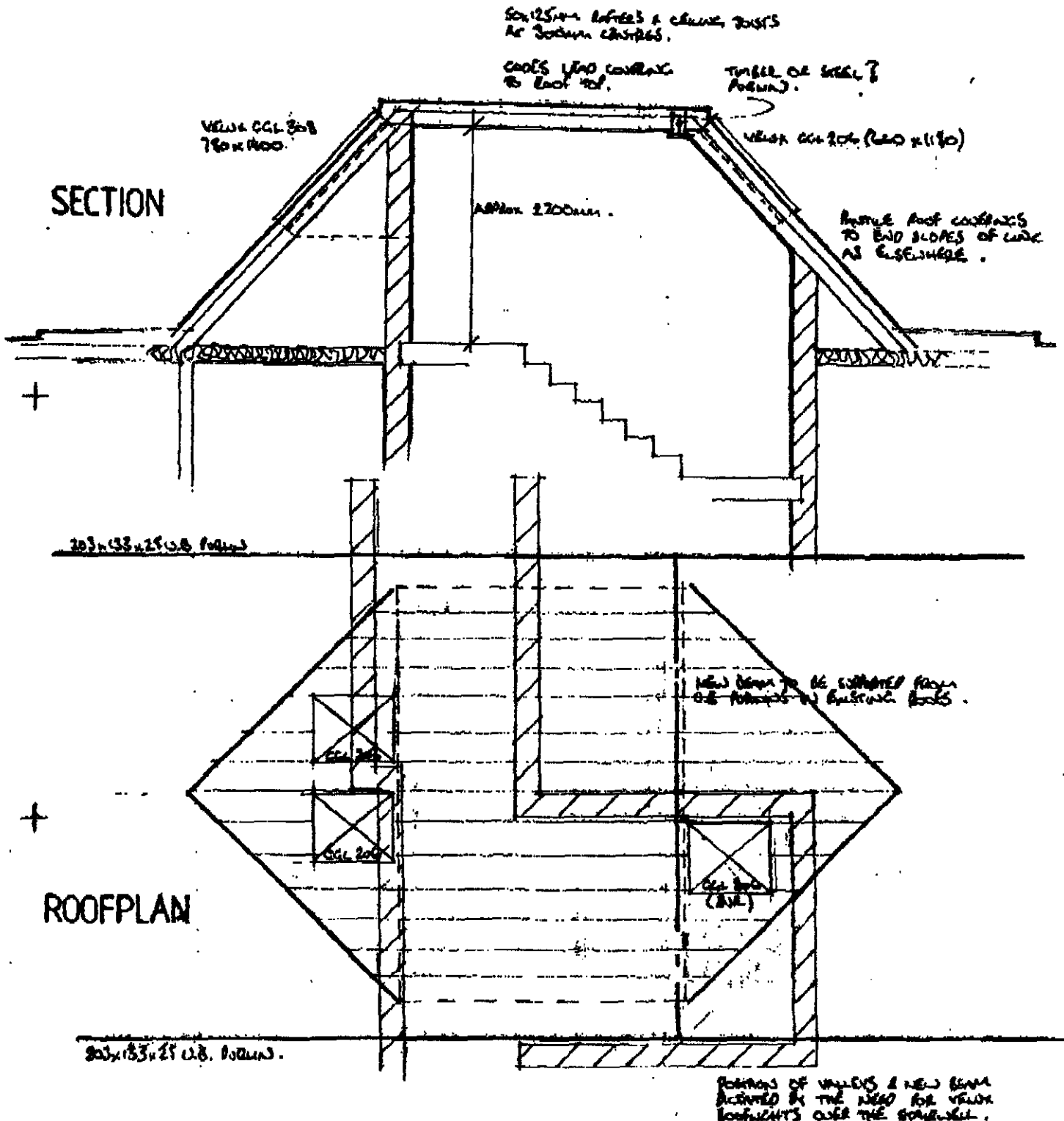
SHDC PLANNING DEPT.	
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JC ACP	
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Copy to	date

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Destination FAX No. 0775 710 772

FAX TRANSMISSION

MLG 029/A

~~Existing Roof Plan.~~

Meldrum Lee & Gillatt
 Architects, Quantity Surveyors
 Management & Cost Consultants

LONGS WAREHOUSE DOUBLE ST SPALDING
 REVISED LINK ROOF

Date SEPT. 93

Scale 1:50

Drawn by M.L.G.

Checked by

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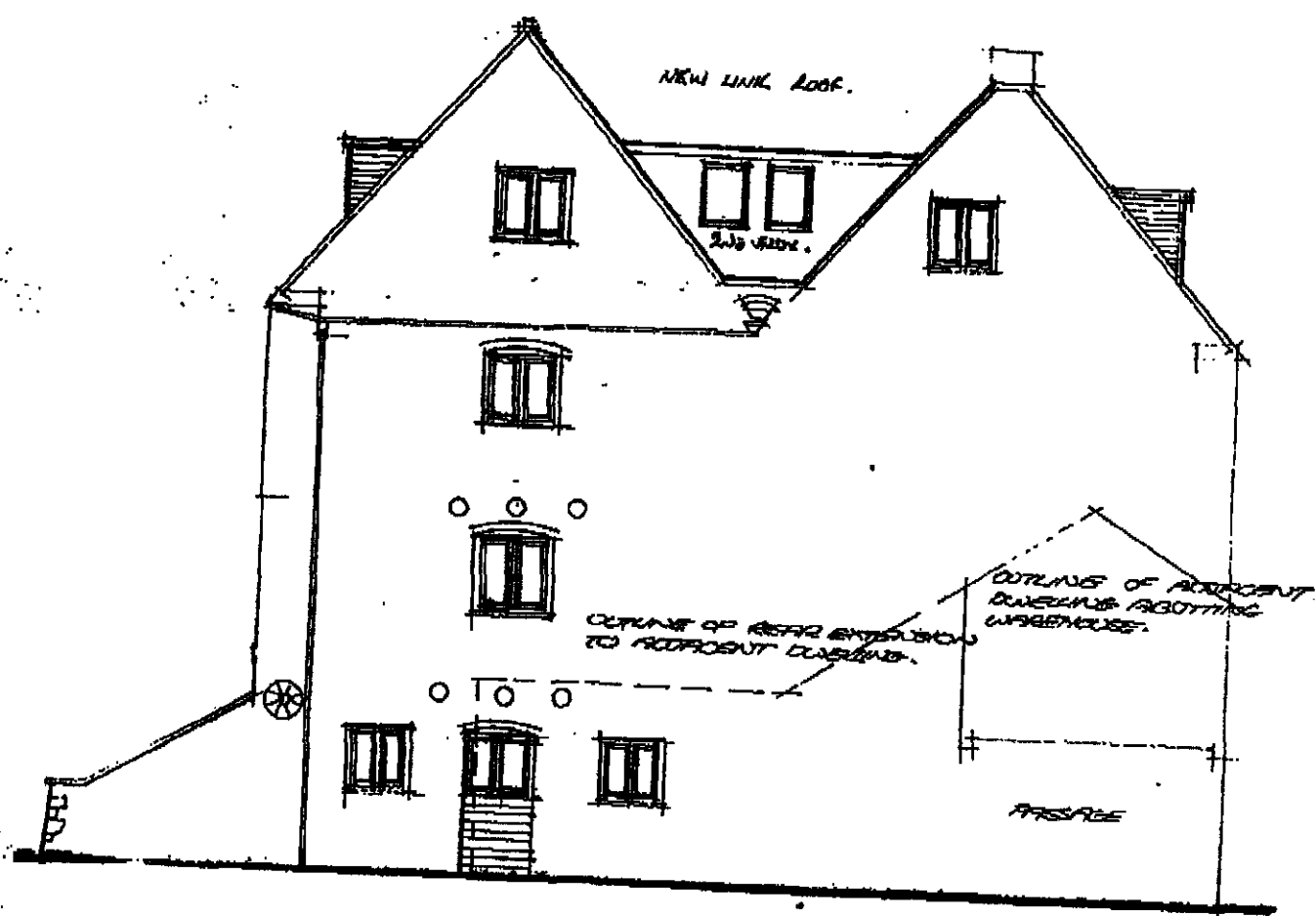
WELLS MIN. L.L.

ADWEL P.02/019

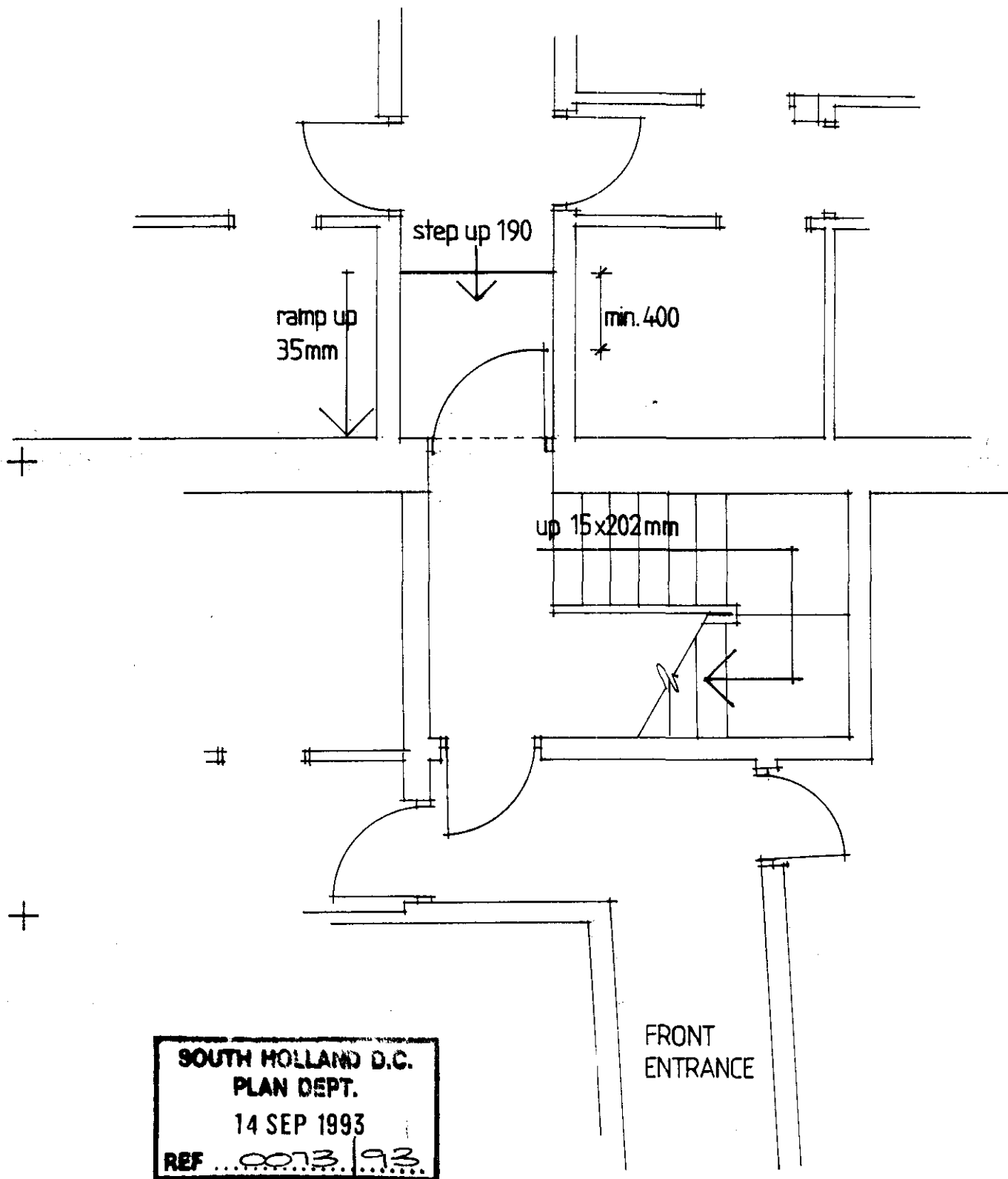
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P. 02



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Meldrum Lee & Gillatt
Architects & Quantity Surveyors

LONGS WAREHOUSE
GROUND FLR. STEP ARRANGEMENT.

Date
AUG. '93

Scale
1:50

No.
12275:51

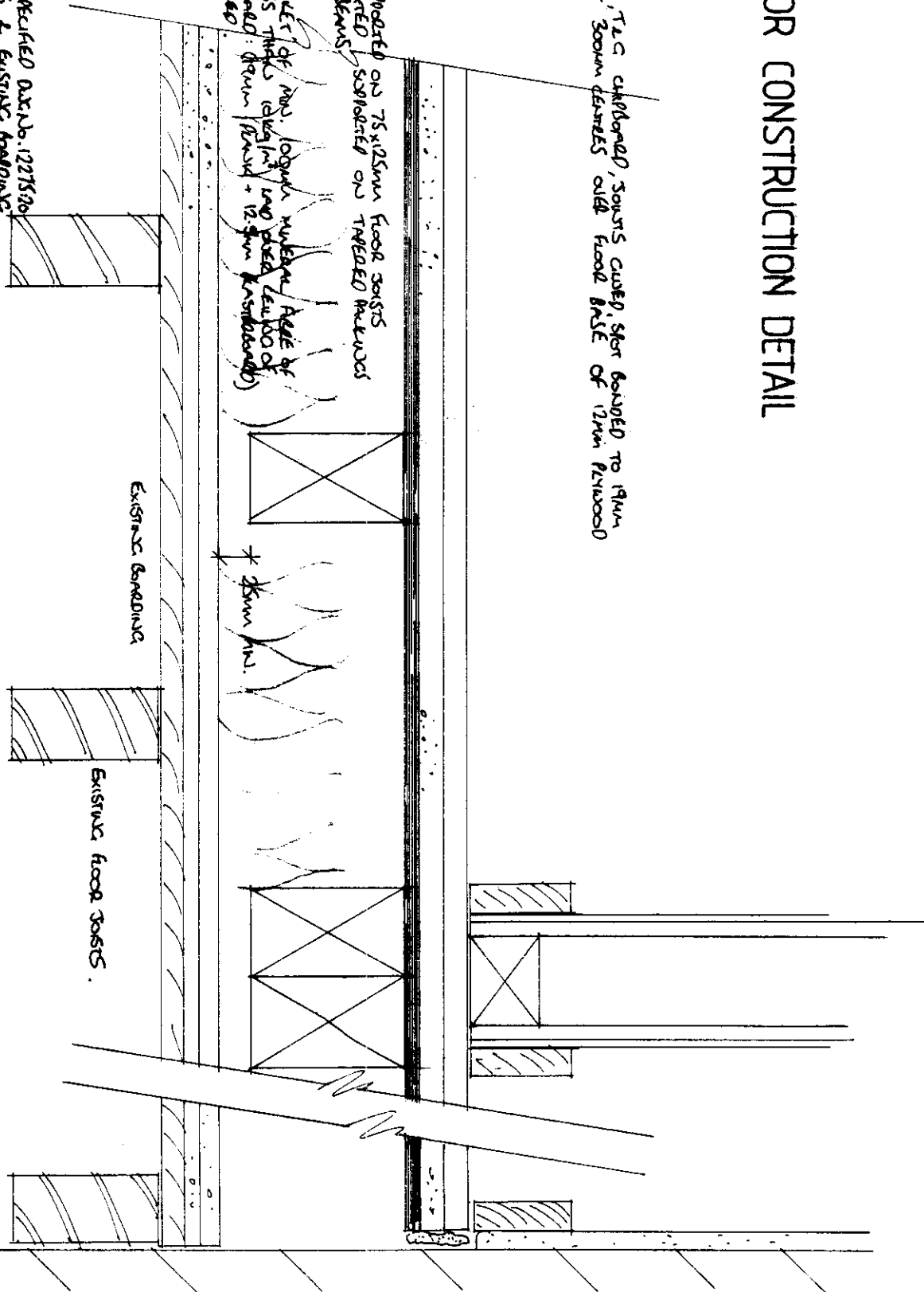
FIRST FLOOR CONSTRUCTION DETAIL

18mm chipboard, 12c chipboard, joists cased, floor bonded to 19mm plasterboard at 300mm centres over floor base of 12mm plywood

new floor supported on 75x125mm floor joists
resilient treated supported on tapered metal studs
over existing beams

adherent blanket of 100mm mineral fibre of
density not less than 100kg/m³ and piled depth of
300mm plasterboard: 12mm (new) + 12mm (existing)
joists encased

'MULTIPLE' AS SPECIFIED D.C.N.B. 1227570
TO EXISTING JOISTS & EXISTING BOARDING



EXISTING BOARDING

EXISTING FLOOR JOISTS

SOUTH HOLLAND D.C.
PLAN DEPT.
14 SEP 1993
REF. 0013.93

PART WALLS CARRYING THROUGH FLOORS,
BUTTERFLY WALLS ARE BORN TO HOLD THE
FOLLOWING:
5mm gap to be left between underside of
SUBFLOOR & FLOORING LAYER
10mm gap to left around the FLOORING
CEILING'S ABOVE THE WALLS TO BE BUILT
WITH TYPE OF CHALKBOARD
10mm gap filled with mineral fibre
RESILIENT STRIP (DENSITY 90-140 kg/m³)

SECOND FLOOR CONSTRUCTION DETAIL

18mm CHILLED
TO 19mm DISTANCE AT JOINTS
25mm DISTANCE AT JOINTS AS BEFORE AND 12mm DISTANCE ELSE.

50x150mm FLOOR JOISTS
AT JOINTS C/C DISTANCE
AND EXISTING BEAMS.
EXISTING BEAMS REMAIN.

100mm WOODEN FLOOR
BETWEEN JOISTS AS BEFORE.
50x18mm JOISTS FIXED
TO EXISTING JOISTS.

TIMBER FLOORING
PLACED OVER JOISTS
TO LEVEL NEW FLOOR.
LITTLE EXISTING BRICK
& JOISTS HAVE ORDER.

30mm PLASTERBOARD & SKIN
AS BEFORE.

EXISTING JOISTS TO REMAIN
TO TAKE CEILING LOADS ONLY.
TO BE REPAIRED WITH NOVIFLORE AS BEFORE.

SOUTH HOLLAND C.O.
PLAN DEPT.
14 SEP 1993
REF 0073/93



Meldrum Lee & Gillatt
Architects & Quantity Surveyors

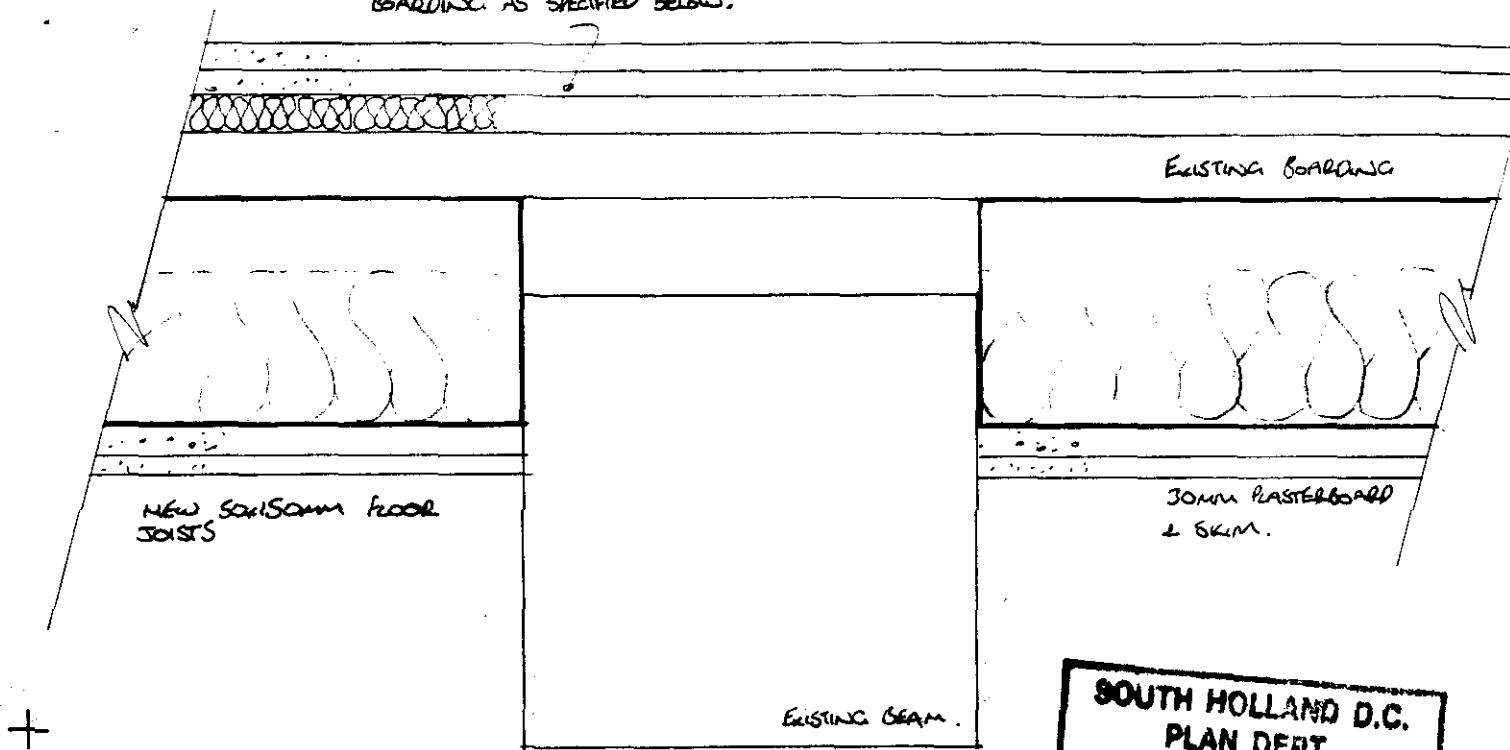
LONGS WAREHOUSE
REVISED SECOND FLOOR DETAIL

Date
AUG. 1993

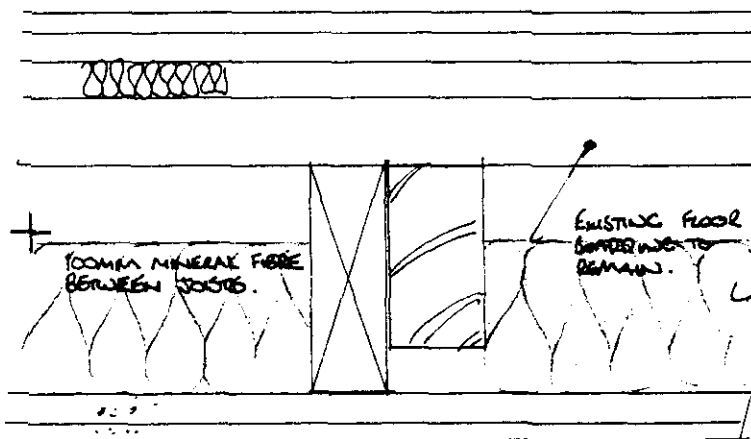
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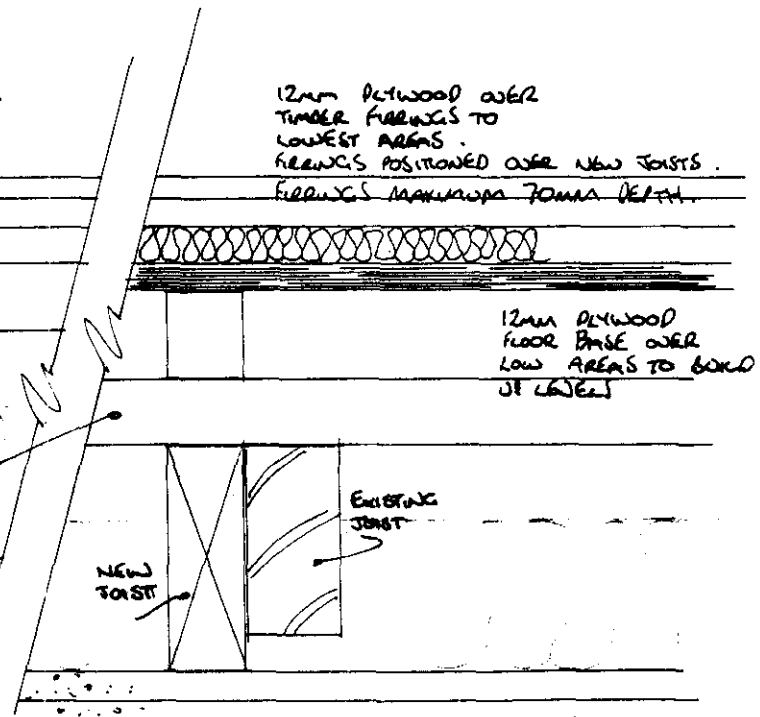
FLOATING LAYER OVER EXISTING
BOARDING AS SPECIFIED BELOW.



18mm CHIPBOARD, JOISTS GUNDED, SPOT BONDED TO PLUM
PLASTERBOARD AT 300mm CENTRES. 25mm RESILIENT
LAYER OVER EXISTING FLOORBOARDING.



12mm PLYWOOD OVER
TIMBER FILLINGS TO
LOWEST AREAS.
FILLINGS POSITIONED OVER NEW JOISTS.
FILLINGS MAXIMUM 70mm DEPTH.



TOP FLOOR
CONSTRUCTION DETAIL



Meldrum Lee & Gillatt
Architects & Quantity Surveyors

LONGS WAREHOUSE
REVISED THIRD FLOOR DETAIL

Date
SEPT. 93

Scale
1:5

No.
12275:55

Your Ref.

Our Ref.

Date.

REMEDIAL WORKS

TO LONGS WAREHOUSE

DOUBLE STREET

SPALDING

LINCS



Longhurst Housing Association
c/o Meldrum Lee & Gillatt
49, High Street
Boston
Lincs
PE21 8SP.

Rec'd 24th May 93 - rec'd 6/9/93.

Directors:

JOHN SIDEBOTTOM CEng. MStructE (Chairman)
J. ANDREW RICHARDSON TEng. AMStructE.
RICHARD CHENG BSc, CEng. Eur Ing, MStructE, AMICE



REMEDIAL WORKS
TO LONGS WAREHOUSE

DOUBLE STREET

SPALDING

LINCS

Reference: 15293

May 1993

INTRODUCTION

At the request of Longhurst Housing Association we have been instructed to prepare a remedial scheme to an existing warehouse, with a view to conversions and alterations to form dwellings.

This report generally follows the comments and recommendations outlined in our previous report ref: 89137 dated August 1990, but incorporates the revisions made to the internal layout by Meldrum Lee & Gillatt.

Cont....

2.

Remedial Works to Longs Warehouse / 15293

Longhurst Housing Association

All remedial works and recommendations reflect the contents of our Preliminary Structural Report dated May 1987 ref: P1156 and are to be read in conjunction with all relevant Architectural drawings prepared by Meldrum Lee & Gillatt ref: 12275, which indicate the clients requirements and conform to Building Regulations.

In addition to the drawings and details which accompany this report, reference should also be made to the following information:-

- a) Our Calculation Sheets No.d 15293/1-27 inclusive, which form the basis of the Building Regulation submission for structural alterations to the property.
- b) T.R.A.D.A. report ref: RNG/JLN/EA/49/89 upon the condition of existing timber.
- c) Soils Engineering Ltd report ref: C.4738 upon the ground conditions.

Cont....

3.

Remedial Works to Longs Warehouse / 15293

Longhurst Housing Association

RECOMMENDATIONS

It is our intention to highlight the various items which we feel need attention of a structural nature only.

Reference is made to the above documents plus drawings and sketch details which accompany this report.

FOUNDATIONS

Mini Piled Foundations are to be installed to support New Wall and Floor loads.

The choice of Pile type and Pile design is the responsibility of the chosen contractor and must take into account the ground conditions and the effect the piling may have on the existing structure.

Cont....

4.

Remedial Works to Longs Warehouse / 15293

Longhurst Housing Association

All design and details are in accordance with the previous site investigation report and reference should be made to our Calculation Sheets No.d 15293/20-27 inclusive, for design of Floor Slab and Ground Beams.

Great care must be given to not disturbing existing walls whilst excavations are underway.

REAR WALL ADJACENT TO RIVER

The rear wall at ground floor level bows outwards considerably, particularly to the right hand side of the central doorway.

The amount of movement is likely to have reduced the bearing of main timber beams to an unacceptable amount and the wall now requires extensive remedial works.

Cont....

5.

Remedial Works to Longs Warehouse / 15293

Longhurst Housing Association

It is our recommendation that the rear wall be carefully removed below the second floor window head level, down to the external low level yard area. (See Appendix 1).

Suitable needles and props should be inserted to support the wall and floors above, with adequate bracing to ensure temporary stability.

We suggest small areas of wall are re-constructed at a time, so that the whole wall is not removed at once.

The rear wall is to be securely bonded onto both gable walls and the tie bar running across the rear wall at First Floor level is to remain.

All main First Floor Beams which bear onto the Rear Wall are to have External Washer Plates and tie rods fixed to them. (See Appendix 2).

Cont....

6.

Remedial Works to Longs Warehouse / 15293

Longhurst Housing Association

The new internal wall which abuts the external wall is to have steel connectors to allow differential vertical movement.

Provide 2 No. Catnic Stringhold Wall Connectors where all 215mm thick internal solid walls abut existing internal and external walls - see manufacturers literature attached (Appendix 3).

GABLE/CENTRAL INTERNAL WALL

Where the internal wall joins both gable walls extensive cracking to both gable and internal walls is present at Ground and First Floor levels.

It is therefore recommended that the gable walls are carefully removed back to sound brickwork beyond the signs of visible cracking. The internal walls should also be removed back to sound brickwork and both walls be solidly bonded and keyed together to form a structurally integral wall construction.

Cont.....

7.

Remedial Works to Longs Warehouse / 15293

Longhurst Housing Association

As an added precaution against further movement we recommend a new washer plate and tie are introduced to run along the internal wall and fix to main beams, at all floor levels. (See Appendix 4).

The majority of openings within the internal wall are not required, except for a single doorway at each floor level. New lintels are to be introduced to all existing openings that are to remain (see later for lintel detail). Where remaining openings are to be bricked up, the wall above should be propped and the existing timber lintel removed. The opening should then be solidly bricked up the full width of the wall.

FRONT WALL

The front wall bows outwards at Second Floor level and is to have tie bars inserted at all Main Floor Beam locations as specified on Appendix 2.

Cont....

8.

Remedial Works to Longs Warehouse / 15293

Longhurst Housing Association

LINTELS TO EXTERNAL WALLS

A continuous timber wall plate is situated directly under the Main Floor Beams and runs the full length of the Front and Rear Elevations and is to remain.

Further timber lintels are situated below this member and due to insect infestation and considerable sagging over openings these are to be removed and replaced by suitable new steel lintels.

Please note that the brickwork arch to the external face is to remain with the new lintels designed to support wall and floor loads - see Appendix 5 & 6.

The above replacement lintels are also required to openings in the gable walls.

Cont....

9.

Remedial Works to Longs Warehouse / 15293

Longhurst Housing Association

LINTELS TO CENTRAL INTERNAL WALL

The existing timber which is present above the opening to the central internal wall is in a much worse condition than to external walls.

Due to overloading, insect infestation plus wet and dry rot, all timber to the internal wall is to be removed and solidly rebuilt in brickwork, as stated previously, incorporating new steel lintels shown in Appendices 7 & 8.

All Hot Rolled Lintels to both Internal and External Walls to be galvanised.

Cont....

10.

Remedial Works to Longs Warehouse / 15293

Longhurst Housing Association

FLOOR TIMBERS

Since the majority of Existing Floor joists are defective new joists to support floor loads are to be introduced. (See Calculation Sheet No.9).

The main floor beams are satisfactory provided timber props are inserted at mid span (see later).

Due to the construction of internal walls and some of the main beams being defective due to dry and wet rot, some beams require replacing and others require renewal.

Please refer to Calculation Sheets No.d 11,12 & 13 for the main floor beam schedule of remedial works.

New and Existing Timber Columns are to be solidly fixed to Main Beams at top and bottom and each floor to have columns situated directly above one another, to allow vertical load to be transferred directly to foundations.

Cont....

11.

Remedial Works to Longs Warehouse / 15293

Longhurst Housing Association

Unfortunately Main Floor Beams to Grid Reference E & F (see Calculation Sheet No.13) do not coincide with each other and additional support at each floor is necessary to ensure the adequate transfer of vertical load to ground level. Calculation Sheet No.19 for design and location of new steel beam within the floor.

The ends of all main beams where they are built into the wall are to be investigated during construction and if found unsatisfactory, we are to be immediately informed, so that inspection can take place and defective timber removed if necessary.

ROOF STRUCTURE

To maintain the existing external appearance and preserve carpenters marks, roof timbers are to remain, wherever possible.

Cont....

12.

Remedial Works to Longs Warehouse / 15293
Longhurst Housing Association

It is therefore intended to provide additional support in the form of purlins spanning between gable and internal walls, to give support to existing timbers. Please refer to Calculation Sheets No.d 2-8 inclusive and Drawing No.d 15293/02 for details.

A new valley gutter is required and also new supports, since the existing gutter has been leaking and is the major cause of damage to the internal wall and timbers below.

Due to the presence of dry rot below the valley, all roof timbers to both valley slopes, extending from the central wall to new purlins are to be removed and replaced with new suitably treated timber.

All third floor timbers extending 1.0m beyond both sides of the central wall are to be removed, and again replaced with suitably treated new timbers.

The central wall is also to be treated with a proprietary system to stop the re-occurrence of dry rot.

Cont....

13.

Remedial Works to Longs Warehouse / 15293

Longhurst Housing Association

SUMMARY

Clearly the remedial works necessary to this substantial structure, which has been neglected for a number of years, are quite extensive.

Great care must be taken, particularly with propping the existing masonry whilst renewing brickwork and Main Floor Beams.

When a structure of this nature undergoes alterations of the extent proposed in this case, it is not uncommon for minor wall movements to re-occur. This is mainly due to a redistribution of loading, or the general disturbance whilst work is underway on site.

However, the magnitude of further movements should not be significant compared with the movements which have already occurred.

Cont....

14.

Remedial Works to Longs Warehouse / 15293

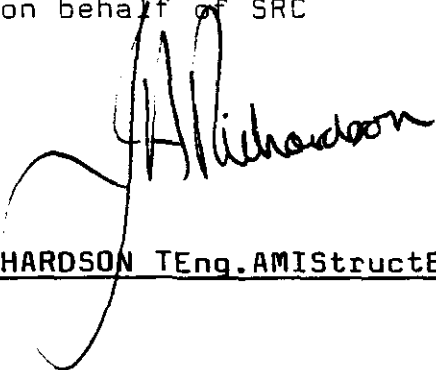
Longhurst Housing Association

We understand that no hard finishes in the form of plastering are proposed. This is clearly an advantage, since any minor defects which occur can easily be dealt with cosmetically by repointing etc.

It must be anticipated that above average ongoing maintenance will be required to ensure the structure remains serviceable.

Once remedial works are complete and provided that any future maintenance problems are rectified without delay, the structure will continue to provide serviceable accommodation for many years.

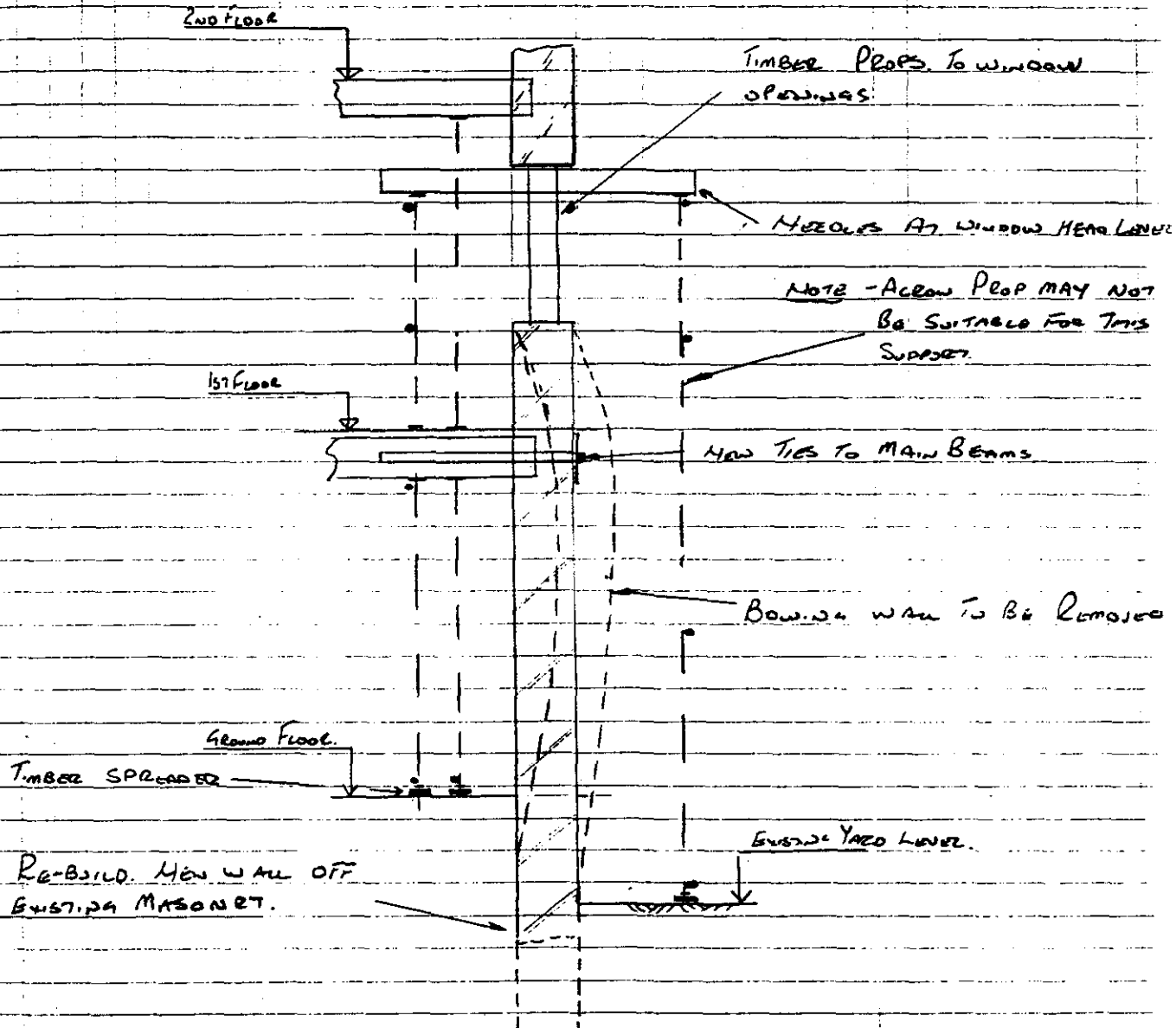
for and on behalf of SRC

A handwritten signature in black ink, appearing to read 'J.A. Richardson', is written over the printed name below.

J.A. RICHARDSON TEng.AMIStructE.

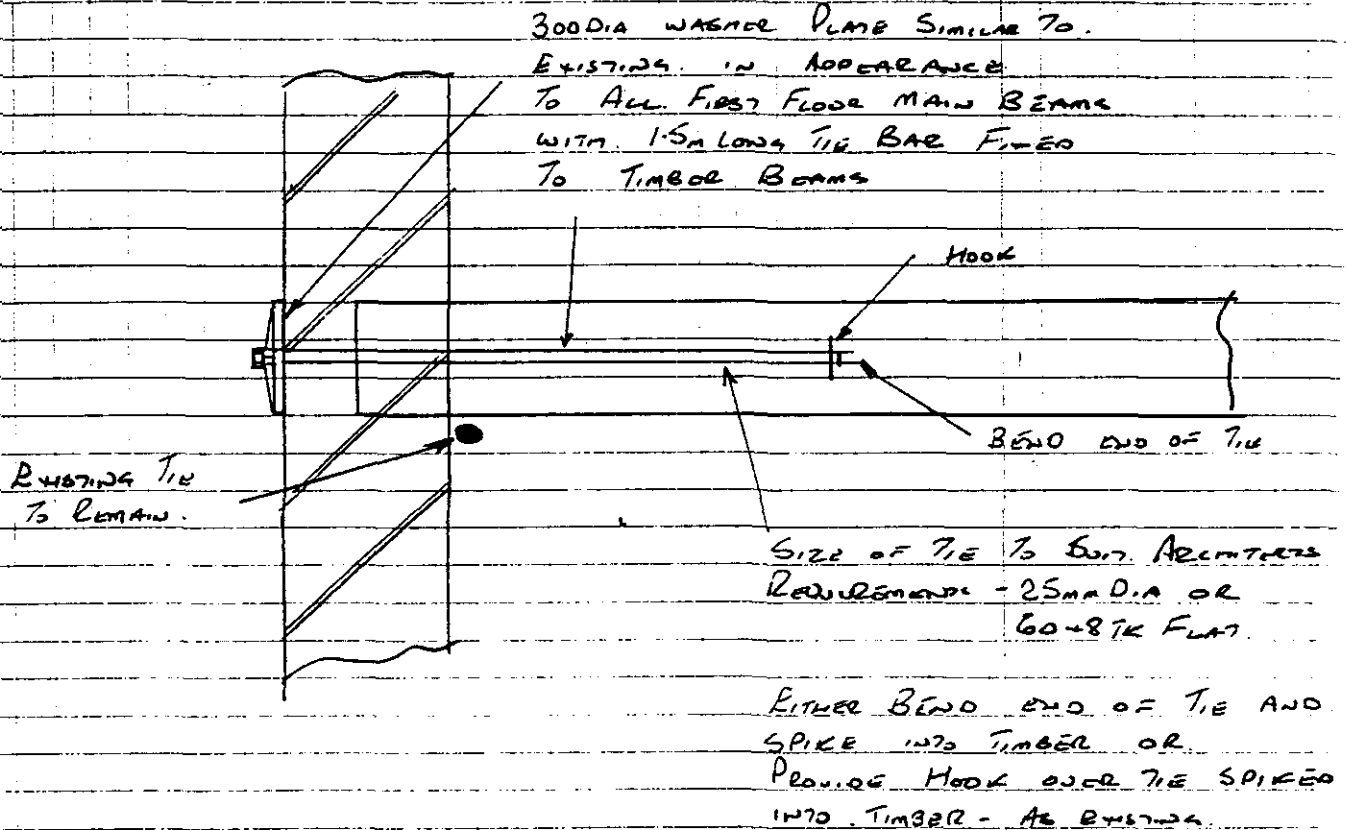
21ST MAY 1993

APPENDIX 1.



SECTION THROUGH REAR WALL

Appendix 2



NEW Tie DETAIL.

catnic®

STRONGHOLD WALL CONNECTOR

Catnic Stronghold Wall Connectors are a prime example of Catnic Technology. Made from stainless steel, they're designed to allow you to twist and slide them into any position to suit the coursing and match the existing wall.

And that, of course, means they can make life a lot easier for you. Especially as they only need a drill

and a spanner to fix them.

One standard Catnic Stronghold Wall Connector pack contains all the necessary fixings for a single skin of masonry up to 2.4 metres. The connector is suitable for all wall thicknesses from 60mm to 250mm.

So follow these instructions, and make life easier for yourself.

Installation Guide



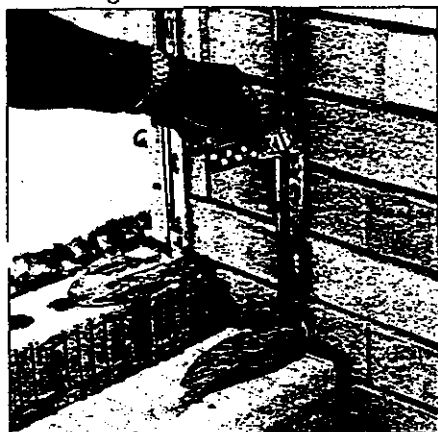
1 Plumb the Connector and mark the positions of the fixing holes ready for drilling



2 Fix Connector to wall using spanner and coach screws.



3 Slot second Connector into lower Connector.



4 Insert Wall Connector Tie into Wall Connector with simple twist and slide.



5 Simply slide into position required.



6 Apply mortar bed to completely surround Wall Connector Ties.

Technical Information

The stainless steel used in the Catnic Stronghold Wall Connector system is of manufacturing grade 304 S15 and satisfies BS1449: Part 2: 1983.

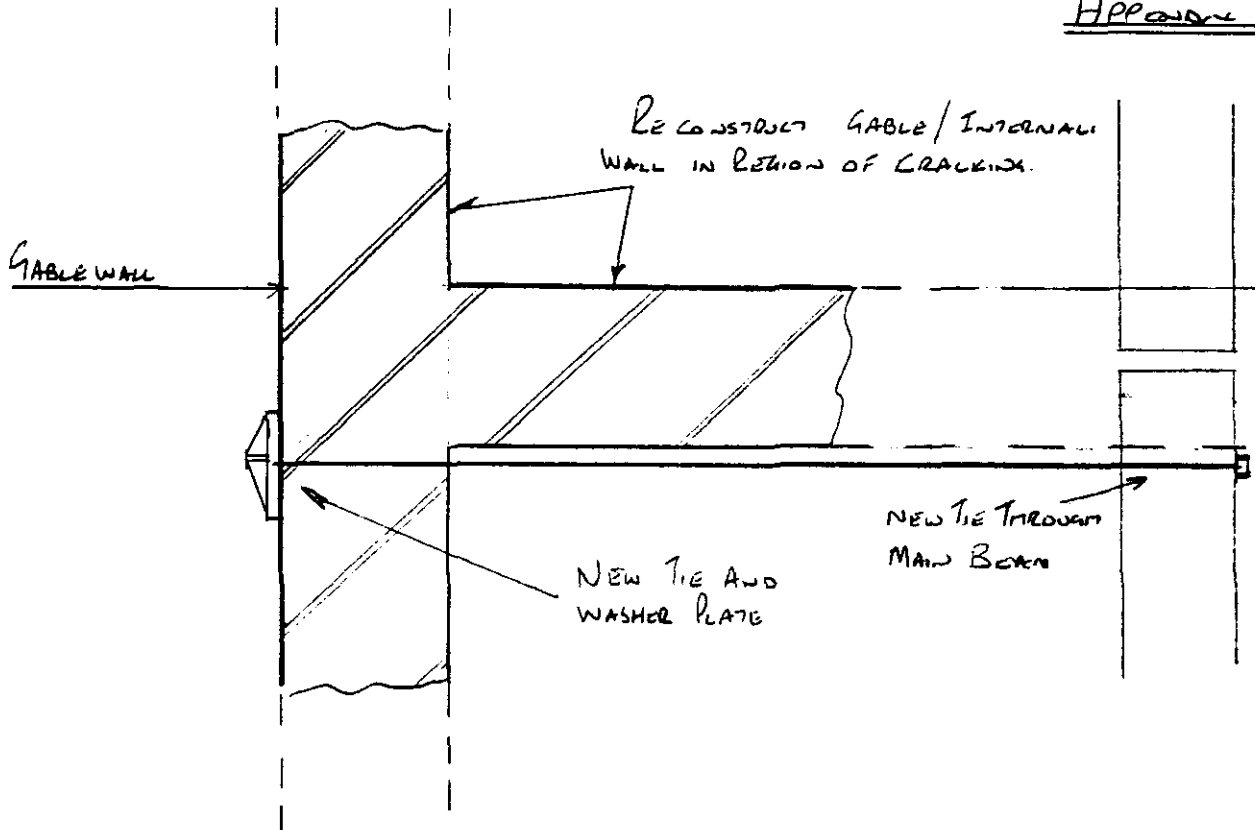
The design shear strength of the system is 4kN over the height of two Connectors [2.3 metres] when used with 3.5 N/mm² blockwork, in situations up to

3 storeys high [8 metres max].

The Wall Connector has been designed to accommodate the Catnic Stronghold weathersealing strip for external wall applications. Where such a barrier is required, the weathersealing strip can be purchased separately.

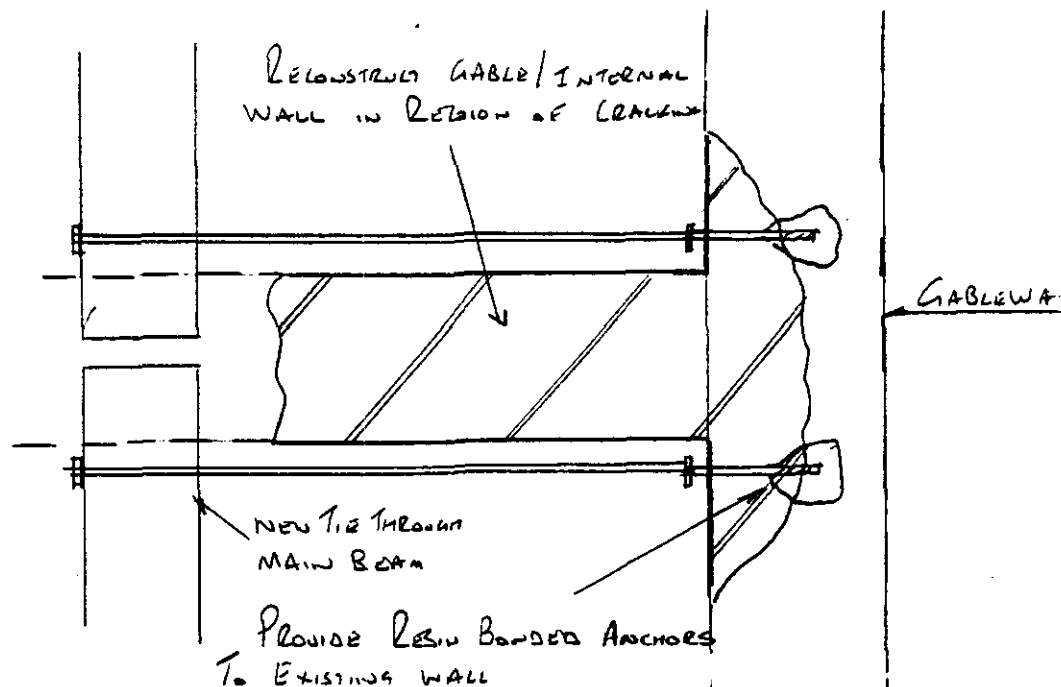
catnic®**ENGINEERED FOR EXCELLENCE**

Appendix 4



TYPICAL PLAN ON NORTH GABLE WALL

AT GROUND AND FIRST FLOOR LEVELS



TYPICAL PLAN ON SOUTH GABLE WALL AT GROUND & FIRST FLOOR LEVEL

Appendix 5

LINTERS TO EXTERIOR WALLS

CHECK WORK CASE

IE GROUND FLOOR OPENING WITH CENTRAL FIRST FLOOR BEAM

$$\text{Wall Load} = 6.0 \times 11 = 66$$

$$\text{Floor} = 9 \times 2 = 18$$

$$\text{Roof} = 2.5 \times 3.0 = 8$$

$$92 \text{ kN/m Run}$$

$$\text{MAX SPAN} = 1.3 \text{ m}$$

$$\text{BM} = \frac{1.3 \times 92 \times 1.3}{8} = 19.4 \text{ kNm}$$

$$I_{\text{req}} Z_{\text{REQD}} = \frac{92 \times 1.3 \times 1.3^2}{0.448} = 451 \text{ cm}^4 \text{ (TOTAL)}$$

$$Z_{\text{req}} R_{\text{REQD}} = \frac{19.4 \times 10^2}{105} = 117 \text{ cm}^3 \text{ (TOTAL)}$$

CLEARLY FOR MAX LOAD A SINGLE 152+152+23 UC IS ADEQUATE

HOWEVER AS THE WALL NEEDS SUPPORT AND WALL THICKNESS REDUCES WITH HT

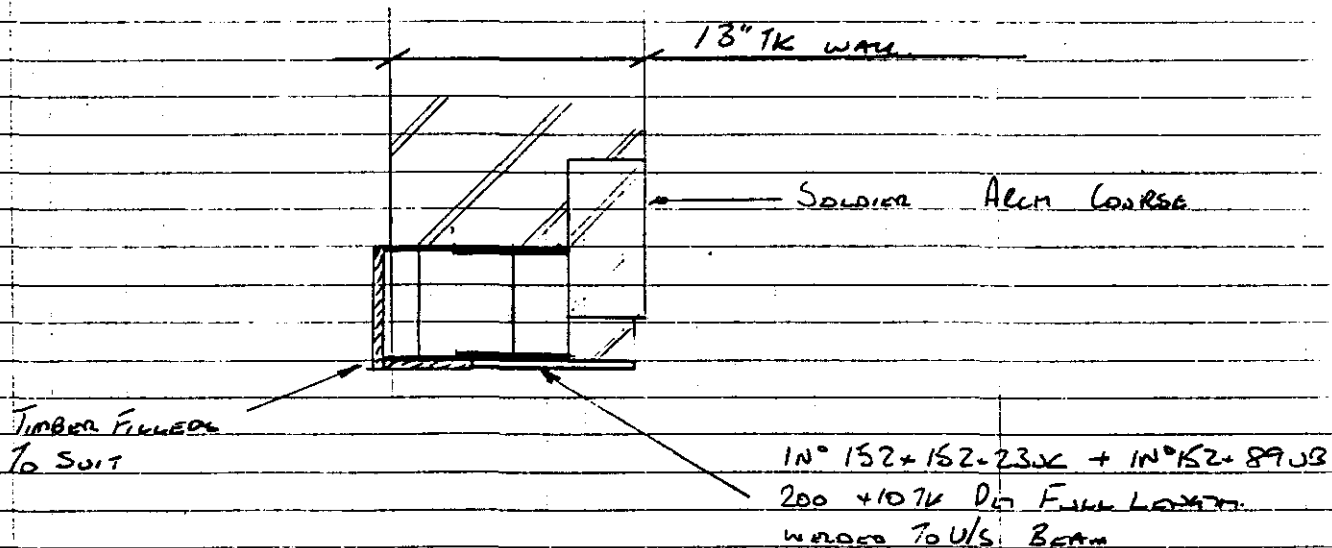
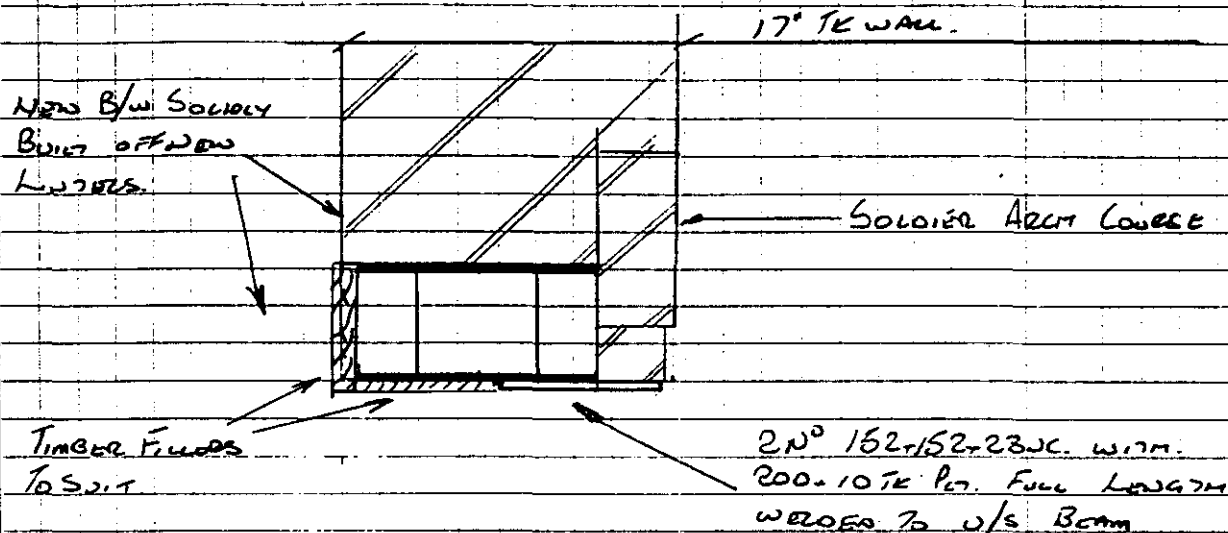
$\therefore$ PROVIDE 2 NO 152+152+23 UC + 107K PLT FOR 17" TH WALL

PROVIDE 1 NO 152+152+23 UC + 1 NO 162+89 UB + 107K PLT FOR 13" TH WALL

ALL LINTERS GALVANIZED

ALL LINTERS TO HAVE MIN 150mm BENEATH

Appendix 6



ALL BEAMS GALVANISED
ALL BEAMS MIN 150mm BEARING

EXTERNAL LUTTER DETAILS

APPENDIX 7

LINER TO INTERNAL WALL

CHECK WORTH CASE

$$\begin{aligned} \text{WALL LOAD} &= 0.0 \times 11 = 0.6 \\ \text{FLOOR} &= 9 \times 4 = 36 \\ \text{ROOF} &= 2.5 \times 3.0 \times 2 = 15 \\ &118 \text{ KJ/m. Run.} \end{aligned}$$

$$\text{MAX SOLE} = 1.6 \text{m}$$

$$\text{LOAD} = 1.6 \times 118 = 190 \text{ KJ JOE}$$

$$\text{BM} = \frac{1.6 \times 190}{8} = 38 \text{ KJm}$$

$$\text{Irr Z}_{\text{reqd}} = \frac{190 \times 1.6^2}{0.468} = 1086 \text{ cm}^4 \text{ (Total)}$$

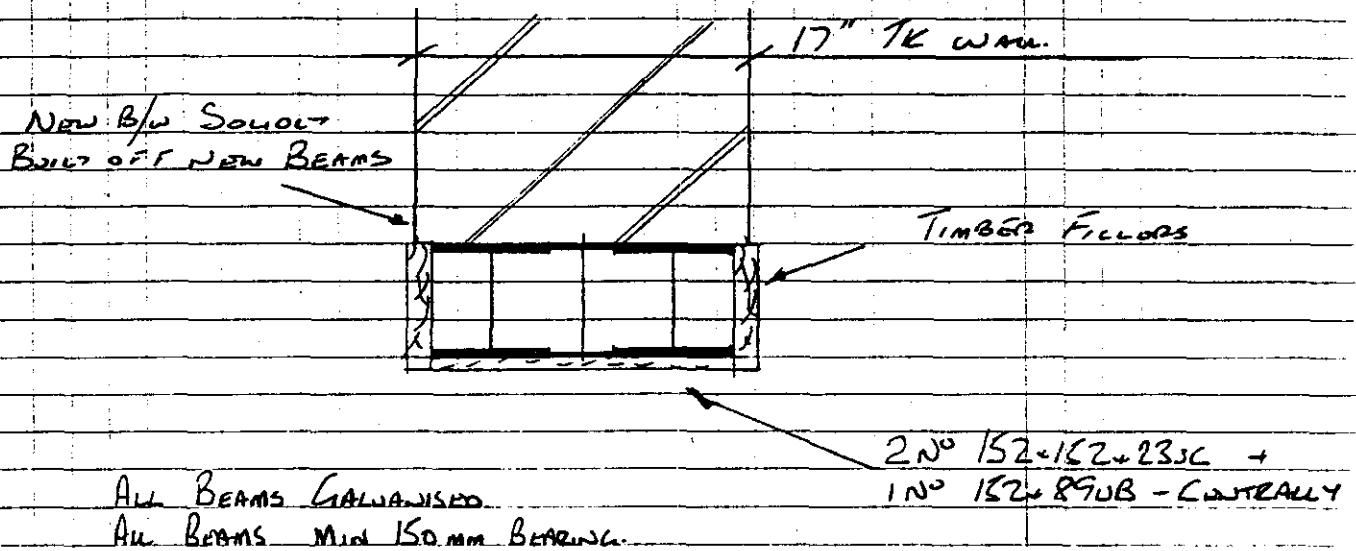
$$\text{Z}_{\text{irr Z}} = \frac{38 \times 10^3}{105} = 230 \text{ cm}^3 \text{ Total}$$

$$\therefore \text{USE } 2 \text{ NO } 152 \times 152 \times 89 \text{ UB} + 1 \text{ NO } 152 \times 89 \text{ UB}$$

All LINERS GALVANISED

All LINERS WITH 150mm MIN BEARING

APPENDIX 8



INTERNAL LINTER DETAILS.

Appendix 9.

1.0m Long x 250mm Deep 10mm TK

STEEL PLATE BOTH SIDES OF BEAM.

M12 BOLTS

MAIN BEAMS

CUT TO ENDS OF
TIMBER

CENTRAL TIMBER PROP

MAIN BEAM SPLICED DETAIL

CONVERSION AND ALTERATIONS TO

LONGS WAREHOUSE

DOUBLE STREET

SPALDING

FOR LONGHURST HOUSING ASSOCIATION.

LOADING.

ROOF (PITCHED AREAS)

Superimposed $0.75[(60-42)/30]$

$$= 0.45 \text{ kN/m}^2$$

42° PITCH

Clay tiles

$$= 0.93 \text{ kN/m}^2$$

Timber battens

$$= 0.04 \text{ kN/m}^2$$

Sarking Felt

$$= 0.01 \text{ kN/m}^2$$

Timber rafters

$$= 0.37 \text{ kN/m}^2$$

Insulation

$$= 0.01 \text{ kN/m}^2$$

Ceiling & Finishes

$$= 0.20 \text{ kN/m}^2$$

$$\underline{2.01 \text{ kN/m}^2}$$

(FLAT TOP CEILING).

Ceiling Joists

$$= 0.37 \text{ kN/m}^2$$

NO ACCESS TO ROOF

Ceiling & Finishes

$$= 0.15 \text{ kN/m}^2$$

Insulation

$$= 0.01 \text{ kN/m}^2$$

$$\underline{0.43 \text{ kN/m}^2}$$

(FLAT ROOF AREAS)

Superimposed

$$= 0.75 \text{ kN/m}^2$$

~~code 5~~ lead Tiles & Lead.

$$= 0.63 \text{ kN/m}^2$$

Timber decking

$$= 0.15 \text{ kN/m}^2$$

Timber Joists

$$= 0.17 \text{ kN/m}^2$$

$$\underline{1.72 \text{ kN/m}^2}$$

PURLIN ①

Span = 5.400 m

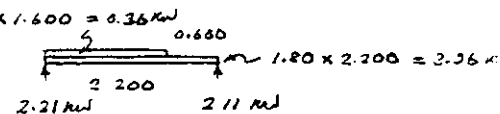
$$\begin{aligned} \text{U.D.L} = & \text{i) } 2.21 \times 5.400 \times 1.10 = 13.13 \text{ kN} \\ & \text{ii) } 1.80 \times 1.000 \times 5.400 = 9.72 \text{ kN} \\ & \text{iii) } 0.43 \times 1.000 \times 5.400 = 2.32 \text{ kN} \end{aligned}$$

$$\text{S/W Purlin \& Wall plate} = 1.56 \text{ kN}$$

- i) → PORTION DOWN SLOPE OF PURLIN
ii) → PORTION UP SLOPE OF PURLIN
iii) → FLAT TOP CEILING

$$26.73 \text{ kN}$$

$$\text{m.b.m} = 0.125 \times 26.73 \times 5.400 = 18.04 \text{ kNm}$$



$$2.01 - 0.20 - 0.01 = 1.80 \text{ kN/m}^2$$

$$R_L \& R_R = 13.36 \text{ kN}$$

PURLIN ②

Span = 5.550 m

$$\text{U.D.L} = 26.73 \times 5.550 / 5.400 = 29.45 \text{ kN}$$

$$R_L \& R_R = 14.72 \text{ kN}$$

$$\text{m.b.m} = 0.125 \times 29.45 \times 5.550 = 21.09 \text{ kNm}$$

PURLIN ③

Span = 1.550 m

$$\text{U.D.L} = 26.73 \times 1.550 / 5.400 = 7.67 \text{ kN}$$

$$R_L \& R_R = 3.84 \text{ kN}$$

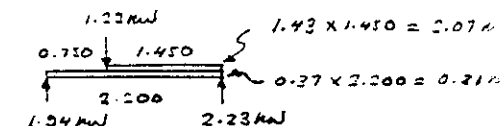
PURLIN ④

Span = 5.250 m

$$\begin{aligned} \text{U.D.L} = & \text{i) } 2.23 \times 5.250 \times 1.10 = 12.50 \text{ kN} \\ & \text{ii) } 9.72 \times 5.250 / 5.400 = 9.46 \text{ kN} \\ & \text{iii) } 2.32 \times 5.250 / 5.400 = 2.26 \text{ kN} \\ & \text{S/W ETC} = 1.51 \text{ kN} \end{aligned}$$

$$26.13 \text{ kN}$$

$$\text{m.b.m} = 0.125 \times 26.13 \times 5.250 = 17.17 \text{ kNm}$$



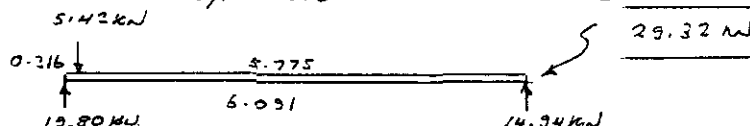
$$p = 1.72 \times 0.750 = 1.29 \text{ kN}$$

$$R_L \& R_R = 13.06 \text{ kN}$$

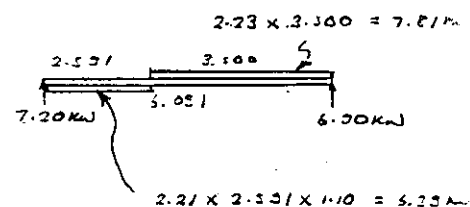
PURLIN ⑤

Span = 6.001 m

$$\begin{aligned} \text{U.D.L} = & \text{i) } 12.50 \times 6.001 / 5.250 = 14.06 \text{ kN} \\ & \text{ii) } 9.46 \times 6.001 / 5.250 = 10.96 \text{ kN} \\ & \text{iii) } 2.26 \times 6.001 / 5.250 = 2.62 \text{ kN} \\ & \text{S/W ETC} = 1.74 \text{ kN} \end{aligned}$$



$$\text{m.b.m} = 14.94 \times 3.103 / 2 = 23.18 \text{ kNm}$$



$$\text{m.b.m} = 6.50 \times 3.03 / 2 = 10.66 \text{ kNm}$$

$$\text{E-U.D.L} = \frac{2 \times 10.66 \times 6.001}{3.030 \times 2.001} = 14.1$$

PURLIN ⑥

Span = 5.165 m

$$\begin{aligned} \text{U.D.L} = & \text{i) } 12.50 \times 5.165 / 5.250 = 12.66 \text{ kN} \\ & \text{ii) } 9.46 \times 5.165 / 5.250 = 9.29 \text{ kN} \\ & \text{iii) } 2.32 \times 5.165 / 5.250 = 2.27 \text{ kN} \\ & \text{S/W ETC} = 1.48 \text{ kN} \end{aligned}$$

$$25.70 \text{ kN}$$

$$R_L \& R_R = 12.85 \text{ kN}$$

$$\text{m.b.m} = 0.125 \times 25.70 \times 5.165 = 16.59 \text{ kNm}$$

PURLIN ⑦ Span = 3.750 m.

U.D.L = i)	$12.66 \times 3.750 / 5.165$	= 9.19 kW
ii)	$9.25 \times 3.750 / 5.165$	= 6.74 kW
iii)	$2.27 \times 3.750 / 5.165$	= 1.65 kW
	S/W ETC	= 1.07 kW
		<u>18.65 kW</u>

$R_L \neq R_R = 9.33 \text{ kW}$

$M.B.M = 0.125 \times 18.65 \times 3.750 = 8.74 \text{ kNm}$

PURLIN ⑧ Span = 6.750 m.

U.D.L = i)	$13.13 \times 6.750 / 5.400$	= 16.41 kW
ii)	$9.72 \times 6.750 / 5.400$	= 12.15 kW
iii)	$2.32 \times 6.750 / 5.400$	= 2.90 kW
	S/W ETC	= 1.95 kW
		<u>33.41 kW</u>

$R_L \neq R_R = 16.71 \text{ kW}$

$M.B.M = 0.125 \times 33.41 \times 6.750 = 28.19 \text{ kNm}$

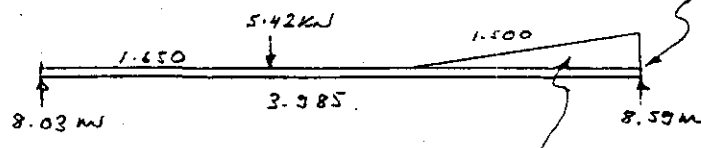
PURLIN ⑨ Span = 6.150 m

U.D.L = i)	$13.13 \times 6.150 / 5.400$	= 14.95 kW
ii)	$9.72 \times 6.150 / 5.400$	= 11.07 kW
iii)	$2.32 \times 6.150 / 5.400$	= 2.64 kW
	S/W ETC	= 1.77 kW
		<u>30.43 kW</u>

$R_L \neq R_R = 15.21 \text{ kW}$

$M.B.M = 0.125 \times 30.43 \times 6.150 = 23.39 \text{ kNm}$

PURLIN ⑩ Span = 3.985 m.



$0.43 \times 1.000 / 2 \times 3.985 = 0.86 \text{ kW}$
 $1.80 \times 1.000 \times 3.985 = 7.17 \text{ kW}$
 S/W $= 1.15 \text{ kW}$
 9.18 kW

$1.80 \times 1.500 \times 1.500 / 2 = 2.02 \text{ kW}$

$M.B.M = (8.03 \times 1.650) - (2.80 \times 1.650 / 2) = 10.11 \text{ kNm}$

PURLIN DESIGN

Worse case purlin ⑧,
FIX WALL PLATE TO STEEL MEMBER

TRY 203 X 133 X 25 UB

Assume restraint by rafters.

Req'd $Z = \frac{28.19 \times 10^3}{180} = 156.61 \text{ cm}^3$

Slimit = $6750 / 250 = 27.00 \text{ mm}$

TOTAL LOAD
 $I_{xx} = \frac{5 \times 33.41 \times 6.750^3 \times 10^3}{3 \times 4 \times 2.1 \times 27.00} = 2359.63$

USE 203 X 133 X 25 UB. THROUGHOUT.

TIMBER RAFTERS OVER STAIRWELL

$$U.D.L = 2.01 \times 0.300 \times 2.350 \times 1.10 = 1.56 \text{ kN}.$$

$$R.L \& R.R = 0.78 \text{ kN}$$

$$M.B.M = 0.125 \times 1.56 \times 2.350 = 0.46 \text{ kNm}.$$

$$\text{Req'd } Z = \frac{0.46 \times 10^6}{5.30 \times 1.25 \times 1.10} = 63.12 \times 10^3 \text{ mm}^3$$

$$\delta \text{ Limit} = 0.003 \times 2350 = 7.05 \text{ mm}$$

$$\text{Req'd } I_{xx} = \frac{5 \times 1.56 \times 10^3 \times 2350^3}{384 \times 8800 \times 7.05} = 4.25 \times 10^6 \text{ mm}^4$$

USE TIMBER SECTION 50 X 100 (GRADE SC3)
@ 300 mm c/c

DESIGNED RIDGE MEMBER

$$\begin{aligned} U.D.L &= \frac{0.78}{0.300} \times 2.200 = 5.72 \text{ kN} \\ &= \frac{0.70}{0.300} \times 2.200 = 5.13 \text{ kN} \\ &= 10.85 \text{ kN} \end{aligned}$$

$$1.80/2.01 \times 0.78 = 0.70 \text{ kN}.$$

$$R.L \& R.R = 5.42 \text{ kN}.$$

$$M.B.M = 0.125 \times 10.85 \times 2.200 = 2.98 \text{ kNm}.$$

$$\text{Req'd } Z = \frac{2.98 \times 10^6}{5.30 \times 1.25} = 450.37 \times 10^3 \text{ mm}^3$$

$$\delta \text{ Limit} = 0.003 \times 2200 = 6.60 \text{ mm}$$

$$\text{Req'd } I_{xx} = \frac{5 \times 10.85 \times 10^3 \times 2200^3}{384 \times 5800 \times 6.60} = 33.29 \times 10^6 \text{ mm}^4$$

USE TIMBER SECTION 44 X 250 (GRADE SC3)
SUPPORT OFF PURLINS & WALLS.

LAY BOARDS Span = 0.848 m.

Point Load say mid-span = $0.78 \times 1.80/2.01 = 0.69 \text{ kN}$.

$$M.B.M = 0.250 \times 0.69 \times 0.848 = 0.15 \text{ kNm}.$$

$$\text{Req'd } y_y = \frac{0.15 \times 10^6}{5.3 \times 1.25} = 22.64 \times 10^3 \text{ mm}^3$$

$$\delta \text{ Limit} = 0.003 \times 848 = 2.54 \text{ mm}$$

$$\text{Req'd } I_{yy} = \frac{0.69 \times 10^3 \times 848^3}{48 \times 5800 \times 2.54} = 0.55 \times 10^6 \text{ mm}^4$$

USE TIMBER SECTION 38 X 200 (GRADE SC3.)

CHECK MASONRY BEARING TO PURLINS.

BLOCK OF 3.5 N/mm^2 COMPRESSIVE STRENGTH IN MORTAR DESIGNATION (iii).

LOCATION A.

$$F = 31.92 \text{ kN. } (16.71 \text{ kN} + 15.21)$$

$$\text{Allowable bearing stress} = \frac{1.25 \times 3.50}{3.10} = 1.41 \text{ N/mm}^2$$

$$\text{Actual bearing stress} = \frac{1.50 \times 16.71 \times 10^3}{133 \times 100} = 1.88 \text{ N/mm}^2 \quad \text{UNSATISFACTORY}$$

∴ PROVIDE CONCRETE PADSTONE 200 L X 215 W X 215 THK.

CHECK PIER @ 0.4 m DOWN

$$e_e = \frac{16.71 \times 0.058 - 15.21 \times 0.058}{31.92} = 0.003$$

$$e_b = \frac{31.92 \times 0.050}{31.92} = 0.05 < b/6$$

$$p_i = \frac{1.5 \times 31.92 \times 10^3}{440 \times 215} \left[1 \pm \frac{0.003 \times 6}{0.215} \pm \frac{0.05 \times 6}{0.440} \right] = 0.88 \text{ N/mm}^2$$

Allowable stress:-

$$s_R = \frac{0.75 \times 2.400}{0.215} = 8.37 \quad Q_x < 0.05t \quad \therefore \beta = 1.00$$

$$f_u = 0.70 + 1.5 \times 0.05 = 0.78$$

$$= \frac{0.78 \times 1.0 \times 3.5}{3.10} = 0.88 \text{ N/mm}^2 \quad \text{OK.}$$

∴ PIER IS SATISFACTORY.

LOCATION B.

$$F = 19.80 \text{ kN} + 3.84 \text{ kN.}$$

$$\text{Allowable bearing stress} = \frac{1.50 \times 3.50}{3.10} = 1.63 \text{ N/mm}^2$$

OBVIOUSLY REQUIRES PADSTONE.

PROVIDE CONCRETE PADSTONE 200 L X 215 W X 215 THK.

$$\text{Allowable bearing stress} = \frac{2.0 \times 3.50}{3.10} = 2.26 \text{ N/mm}^2$$

Actual bearing stress :-

$$e = \frac{13.80 \times 0.057 - 3.84 \times 0.057}{23.64} = 0.04 > \frac{b}{6}$$

$$y = 0.215/2 - 0.04 = 0.068 \text{ m.}$$

$$p = \frac{1.50 \times 23.64 \times 10^3 \times 2}{3 \times 200 \times 68} = 1.74 \text{ N/mm}^2 \text{ OK.}$$

CHECK @ 0.4 h DOWN

$$SR = \frac{2.400}{0.215} = 11.16$$

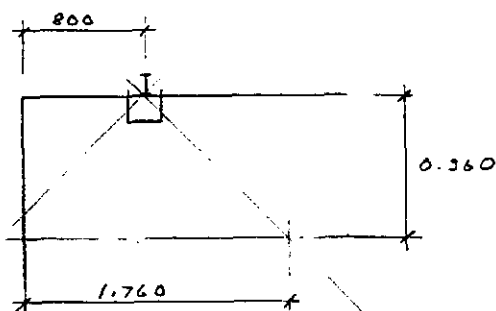
$$Q_x < 0.05t$$

$$\therefore \beta = 0.35$$

$$\text{Allowable stress} = \frac{0.95 \times 3.50}{3.10} = 1.07 \text{ N/mm}^2$$

$$eb = \frac{13.80 \times 0.057 - 3.84 \times 0.057}{(23.64 + 5.53)} = 0.025 < \frac{b}{6}$$

$$S/N \text{ WALL} = 18.0 \times 0.215 \times 0.360 \times 1.760 = 3.53 \text{ kN}$$



$$e_L = \frac{23.64 \times 0.08}{30.17} = 0.06 < \frac{L}{6}$$

$$p = \frac{1.5 \times 30.17 \times 10^3}{215 \times 1760} \left[1 \pm \frac{0.025 \times 6}{0.215} \pm \frac{0.06 \times 6}{1.760} \right] = 0.24 \text{ N/mm}^2 \text{ OK.}$$

$\therefore$ BLOCK WORK IS SATISFACTORY.

SIMILARLY OTHER LOCATIONS WITH RURLINS BEARING ARE SATISFACTORY

FLOOR LOADING

SUPERIMPOSED	= 1.5
BOARDS	= 0.15
JOISTS	= 0.15
PLASTER & SKIM	= 0.22
EXPANDED METAL FORMWORK	= 0.08
PARTITIONS	= 1.0
50mm DEEP SAND	= 0.80
	<u>3.9 kN/m²</u>

It is clear from the findings of TRAQA Report on Existing Timber (Report No: RNC/JLN/EA/49/89) that the majority of floor joists are defective.

It is therefore suggested that new floor joists are introduced throughout. However the existing joists are to be retained for aesthetic purposes but treated with suitable fungal and insect protection.

To suit architectural details, the existing floor joists are to support the ceiling only.

Load on new floor joists = 2.8 kN/m^2

NEW FLOOR JOISTS

Max span = 2.5m, $CFS = 0.4\text{m}$

Load = $2.8 \times 2.5 \times 0.4 = 2.8 \text{ kN UDL}$

BM = $\frac{2.8 \times 2.5^2}{8} = 0.875 \text{ kNm}$

2nd Redd = $\frac{0.875 \times 10^3}{5.3 + 1.1} = 0.15 \times 10^6 \text{ mm}^3$

USING SC3 GRADE TIMBER

USE 50x150 SW TIMBER

CHECK ON FLOOR JOISTS SUPPORTING ADDITIONAL PARTITION LOADING.

PARTITION ALONG LENGTH OF JOIST.

$$\begin{aligned} \text{U.D.L (PARTITION)} &= 0.35 \times 2.600 \times 2.200 = 2.00 \text{ kN}, \\ \text{(FLOOR)} &= 1.81 \times 0.400 \times 2.200 = 1.53 \text{ kN} \\ &\underline{3.53 \text{ kN}} \end{aligned}$$

$$3.14 - 1.0 - 0.20 - 0.01 - 0.12 = 1.81$$

$$m.b.m = 0.125 \times 3.53 \times 2.200 = 0.987 \text{ kNm}.$$

$$\text{Req'd } Z = \frac{0.987 \times 10^6}{5.3 \times 1.10 \times 1.0} = 163.23 \times 10^3 \text{ mm}^3$$

$$S \text{ Limit} = 0.003 \times 2200 = 6.60 \text{ mm}.$$

$$\text{Req'd } I = \frac{5 \times 3.53 \times 10^3 \times 2200^3}{384 \times 8800 \times 6.60} = 8.56 \times 10^6 \text{ mm}^4$$

TIMBER SECTION 50 X 150 (GRADE SC3) IS SATISFACTORY.
@ 400°C/s

PARTITION ALONG LENGTH OF JOIST + PARTITION RUNNING ACROSS

$$P = 0.35 \times 0.400 \times 2.600 \times 1.14 = 0.41 \text{ kN @ MID-SPAN}$$

$$m.b.m = 0.250 \times 0.41 \times 2.200 + 0.987 = 1.21 \times \frac{1.975^2}{2.200} = 1.08 \text{ kNm}.$$

$$\text{Req'd } Z = \frac{1.08 \times 10^6}{5.30 \times 1.10 \times 1.0} = 185.25 \times 10^3 \text{ mm}^3$$

$$S \text{ Limit} = 6.60 \text{ mm}$$

$$\text{Req'd } I = 8.56 \times 10^6 + \frac{23 \times 0.41 \times 1.975^3 \times 10^3}{648 \times 8800 \times 6.60} = 10.45 \times 10^6 \text{ mm}^4$$

TIMBER SECTION 50 X 150 (GRADE SC3) IS SATISFACTORY
@ 400°C/s

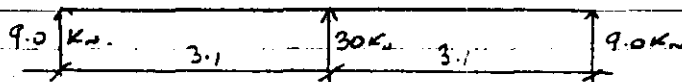
NOTE — DOUBLE UP JOISTS WHERE A PARTITION RUNS ALONG LENGTH WITH PARTITIONS RUNNING AT RIGHT ANGLES TO SAME JOIST.

CHECK MAIN BEAMS.

EXISTING BEAMS TO REMAIN.

SOME CENTER POLES ALLOWED BY 157, BUT ALL BEAMS ARE TO HAVE CONTINUAL SUPPORT.

$$3.9 \times 2.0 = 7.8 \text{ kN/m}$$



IN ACCORDANCE WITH THE REPORT, BEAMS ARE TO BE DESIGNED BASED UPON AN APPROXIMATE CROSS SECTION, AND TO THE GRADES SPECIFIED.

SOME BEAMS ARE TO BE REMOVED AND REPLACED DUE TO NEW WALLS BEING CONSTRUCTED AND BEAMS DO NOT ACHIEVE REQUIRED STRENGTH OF FAIL DUE TO FUNDAMENTAL ATTACH.

THE FOLLOWING LIST SPECIFIES WHICH BEAMS ARE TO BE REMOVED AND REPLACED TO ENSURE ALL BEAMS ARE CAPABLE OF SUPPORTING FLOOR.

REFER TO GRID LINES NOTED ON SHEET 13

FIRST FLOOR.

- 1) REMOVE BEAM D 42.03 1 to 3. - WALL SUPPORTS TO 1573.
 - 2) " " " " " " 3 to 5.
 - 3) " " " " " " 3 to 5.
 - 4) REPLACE BEAM 3) WITH BEAM 2) NOTED ABOVE.
 - 5) CUT BACK BEAM TO E 42.03 3 to 4.
- ALL REMAINING BEAMS ARE THEREFORE SATISFACTORY.



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Job No 15293.

Sheet No 12

Rev.

Date

Designed

Second Floor

- 6) Remove Beam D Grid 3 to 5.
- 7) Remove Beam F Grid 3 to 5.
- 8) Replace Beam 7) with Beam 6) noted above
- 9) Remove Beam D Grids 1 to 3 - supported by new wall
- 10) Cut back Beam E Grids 3 to 4 - supported by new wall.

Third Floor

- 11) Remove Beam B Grids 2 to 3
- 12) Remove Beam B Grids 3 to 4
- 13) Replace above with Beam 1) on First Floor
- 14) Remove Beam D Grids 1 to 3 - Beam supported by new wall
- 15) Remove Beam D Grid 3 to 5
- 16) Remove Beam F Grid 2 to 3
- 17) Remove Beam F Grid 3 to 4
- 18) Replace Beams 16) & 17) above with Beam 15)

By undertaking the above alterations the remaining beams are generally 225-225 square of grade 50 timber

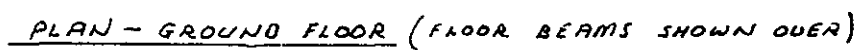
$$\begin{aligned} I_{xx} \text{ provided} &= 214 \times 10^6 \text{ mm}^4 \\ Z_{xx} \text{ provided} &= 1.9 \times 10^6 \text{ mm}^3 \\ Bending \text{ stress} &= 6.6 \text{ N/mm}^2 \end{aligned}$$

$$BM = 1.8 \times 3.12 \times 0.25 = 9.36 \text{ kNm}$$

$$Z_{xx} \text{ reqd} = \frac{9.36 \times 10^3}{6.6} = 1.42 \times 10^6 \text{ mm}^3$$

$$I_{xx} \text{ reqd} = \frac{3100^3 - 2400^3}{185 - 4500 \times 10^3 \times 0.01} = 86 \times 10^6 \text{ mm}^4$$

Existing beams are satisfactory





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Job No 15293

Sheet No 14.

Rev.

Date

Designed

COLUMNS

WHERE EXISTING 300-300 COLUMNS ARE IN POSITION, THESE ARE TO REMAIN.

TREE TRUNK PROPS ARE TO BE REMAINED.

ALL MAIN BEAMS ARE TO HAVE A NEW OR EXISTING PROP AT MID-SPAN.

MINIMUM SIZE OF NEW PROP = 300-300 TO MATCH EXISTING.

MAX. AREA LOAD = 100kN/m² SWT.

L_t = 2.5m.

NEW PROP.

$$GMA = \frac{100 \times 10^3}{200 \times 200} = 2.5 \text{ N/mm}^2$$

$$E/GC_{II} = 853 \quad L_e/b = 8.3 \quad K_{1,2} = 0.852$$

$$GC_{AOM} = 0.852 \times 6.8 = 5.8 \text{ N/mm}^2 > 2.5 \text{ N/mm}^2 \therefore \text{OK}$$

USE 200-200 SW TIMBER SC3 GRADE

EXISTING PROPS - REDUCED SECTION = 200-200

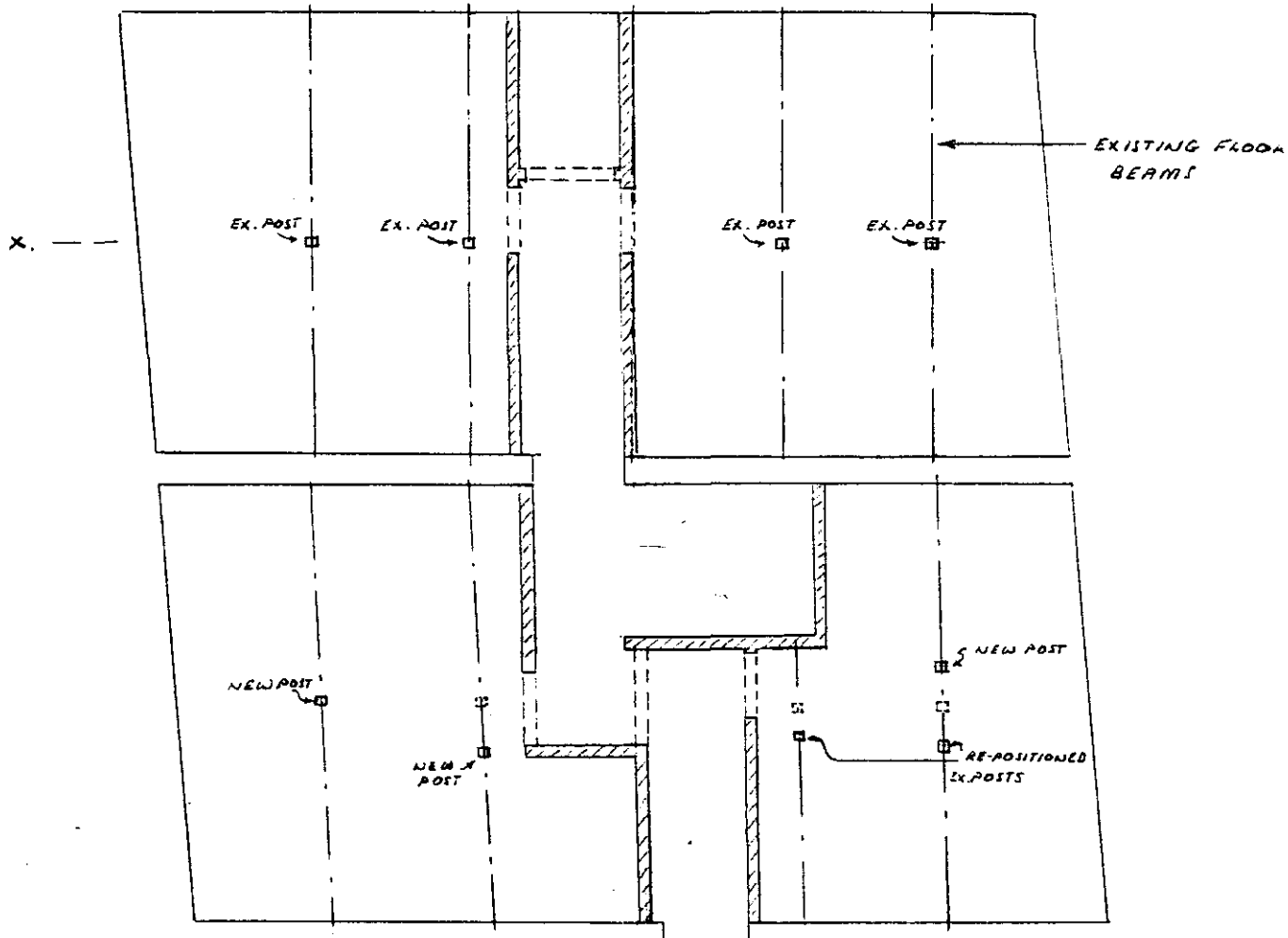
$$GMA = \frac{100 \times 10^3}{200 \times 200} = 2.5 \text{ N/mm}^2$$

Assume grade 50 Timber $\therefore GC = 4.8 \text{ N/mm}^2$

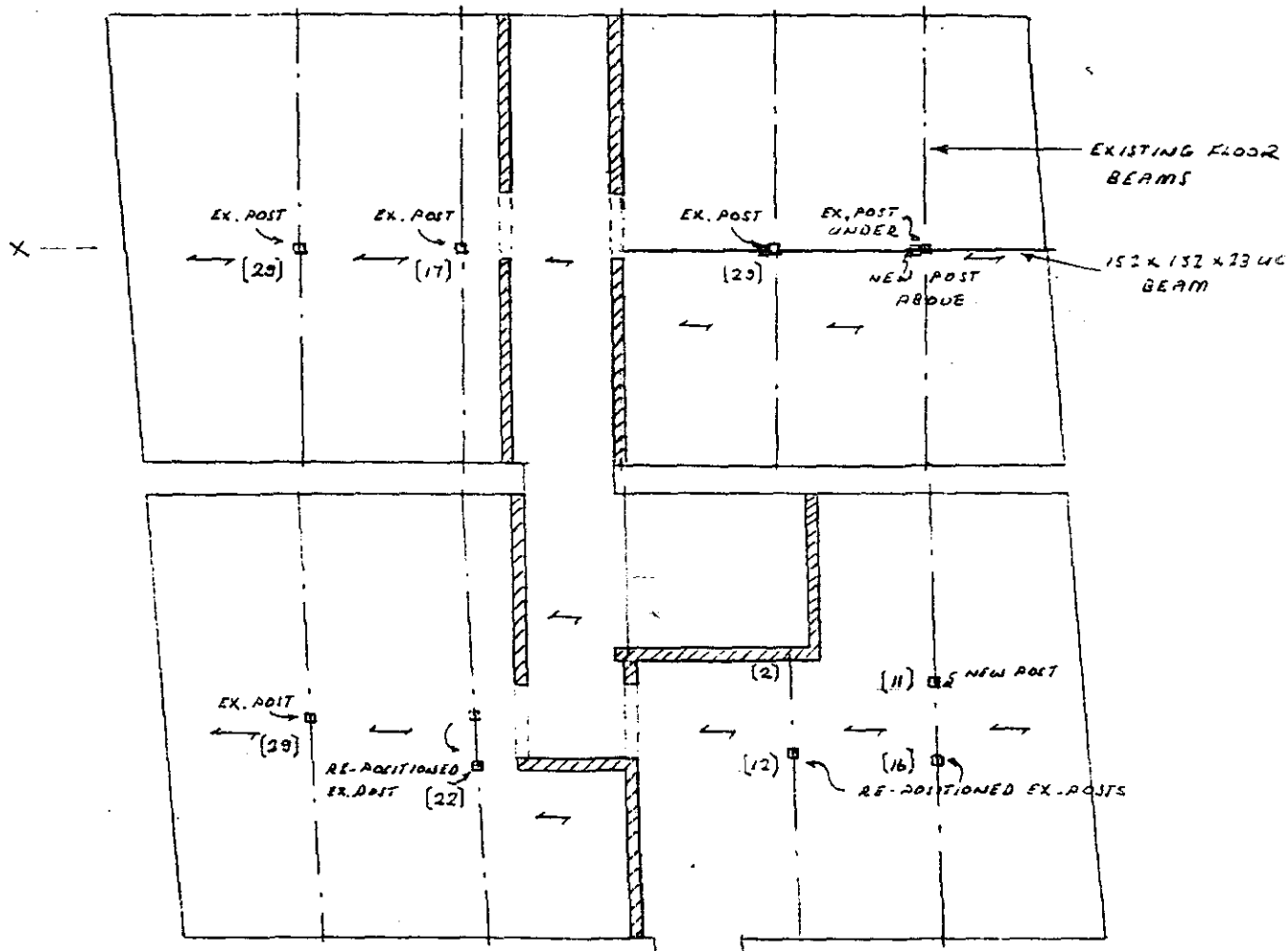
$$E/GC_{II} = 938 \quad L_e/b = 12.5 \quad \therefore K_{1,2} = 0.8$$

$$GC_{AOM} = 0.8 \times 4.8 = 3.84 \text{ N/mm}^2 > 2.5 \text{ N/mm}^2$$

EXISTING PROPS ARE SATISFACTORY



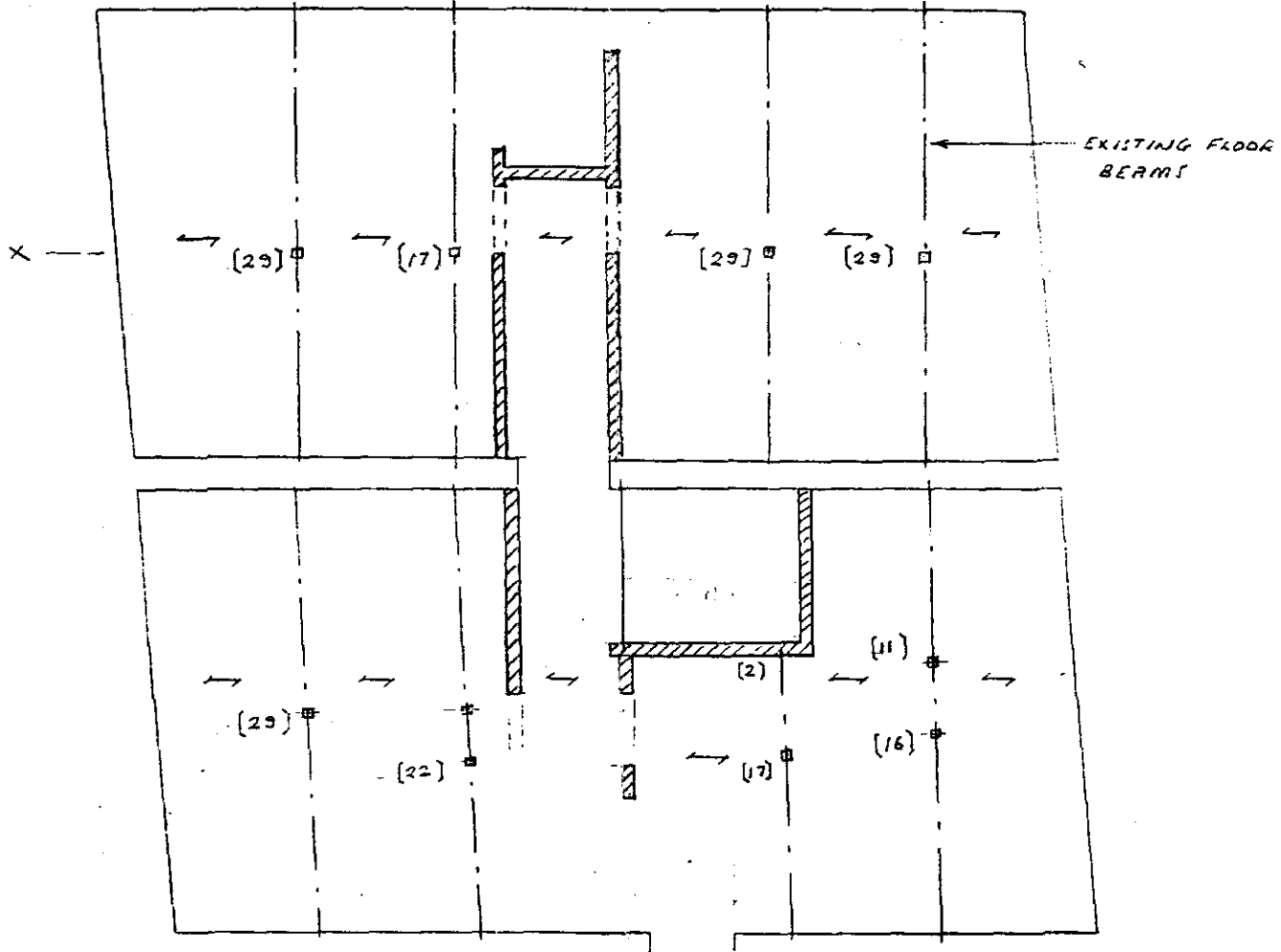
PLAN - GROUND FLOOR (FLOOR BEAMS SHOWN OVER)



PLAN - FIRST FLOOR.

LOADING :-

Superimposed	= 1.50 kN/m ²
Timber boards	= 0.15 kN/m ²
EX. Joists	= 0.12 kN/m ²
New Joists & Trimmers	= 0.16 kN/m ²
Insulation	= 0.01 kN/m ²
Ceiling & Finishes	= 0.20 kN/m ²
Partitions	= 1.00 kN/m ²
	<u>3.14 kN/m²</u>

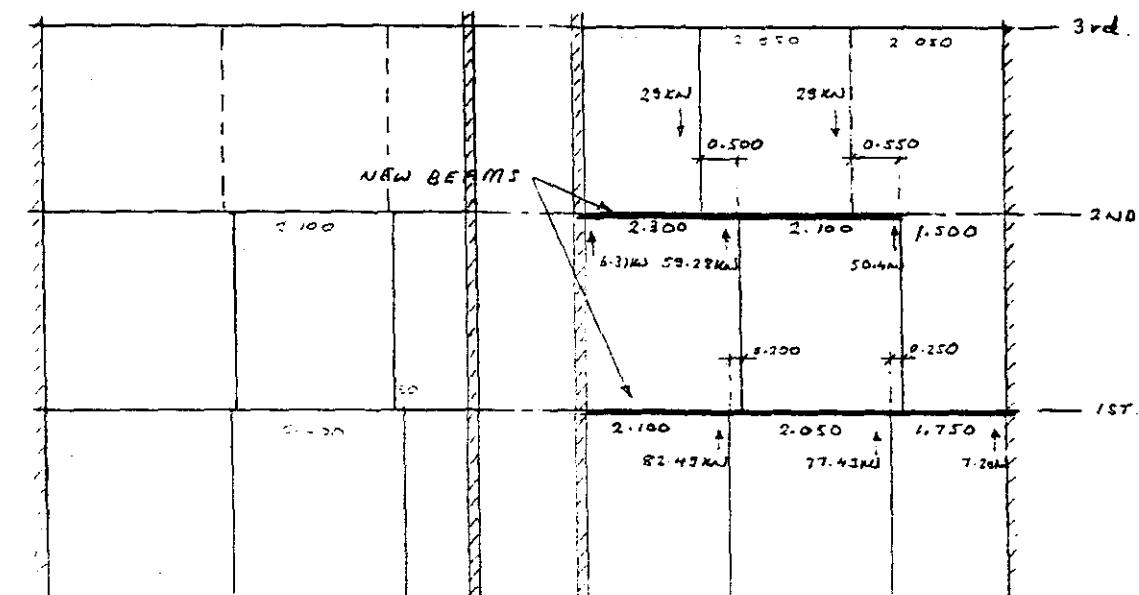


NOTE - POSTS SHOWN BELOW FLOOR

PLAN - THIRD FLOOR.

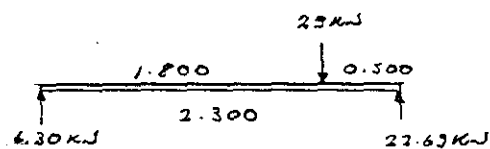
LINE X. - BEAM TO SUPPORT COLUMNS THAT DO NOT COINCIDE WITH BEAMS BELOW.

NEW STEEL BEAM SITUATED IN NEW FLOOR CONSTRUCTION SAT ON EXISTING BEAMS

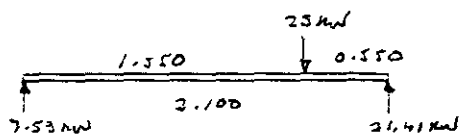


SECTION

NEW STEEL BEAM (2ND FLOOR)



$$M.L.M = 22.63 \times 0.500 = 11.35 \text{ kNm}$$



$$M.L.M = 21.40 \times 0.550 = 11.77 \text{ kNm}$$

TRY 152 X 152 X 23 UC

$$R/M = \frac{2.300 \times 10^2}{3.68} = 62.5$$

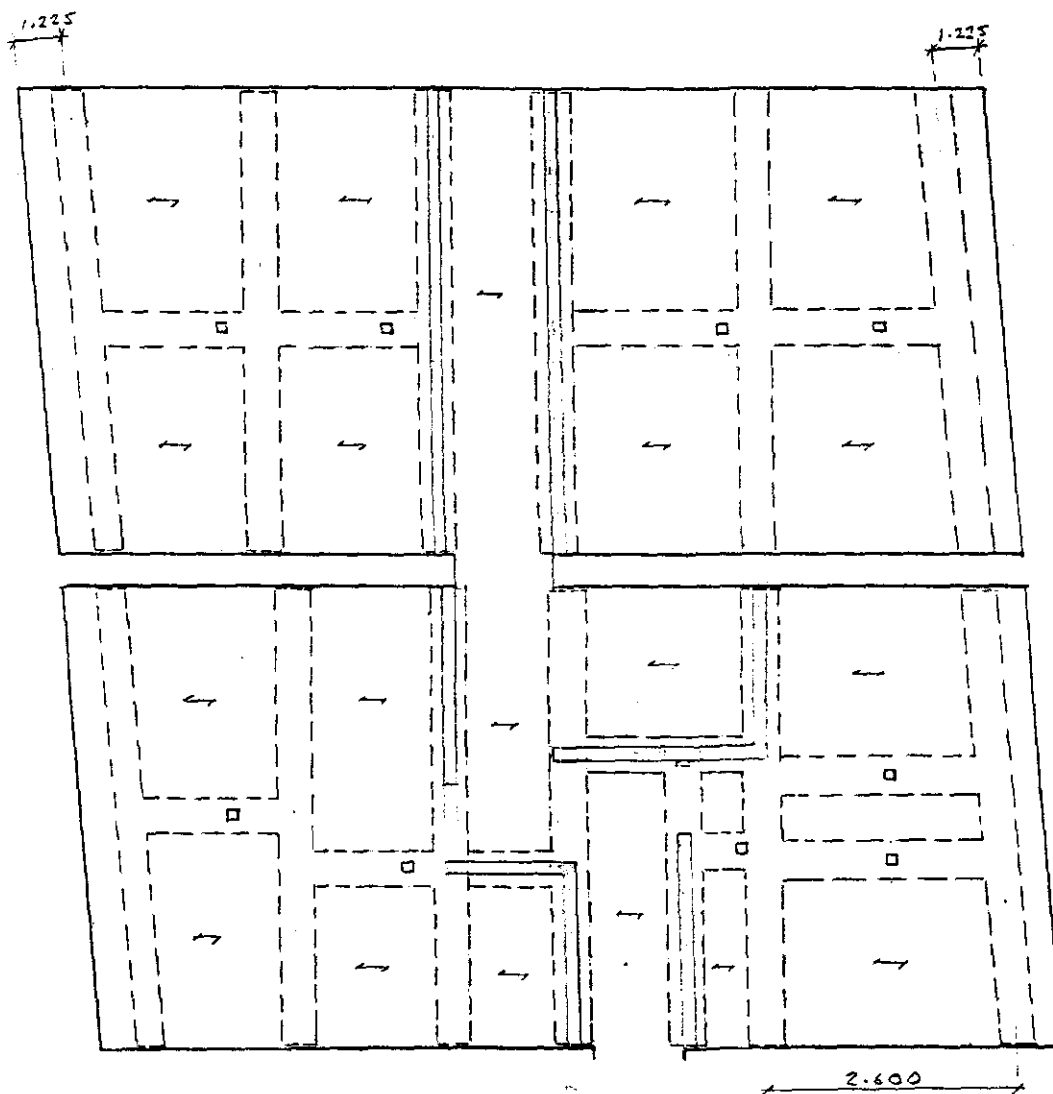
$$\frac{D}{T} = 22.2$$

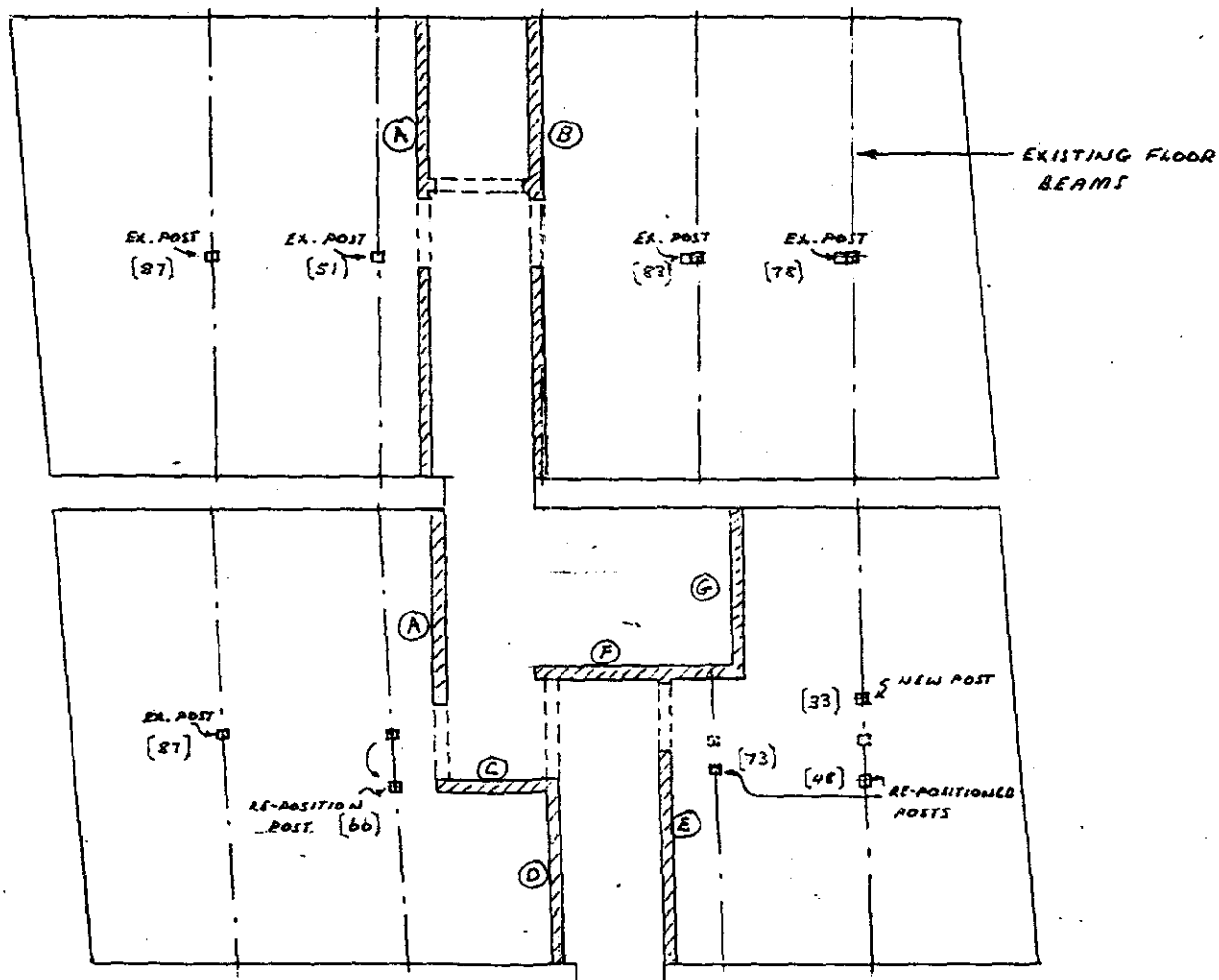
$$\therefore p_{bc} = 168.35 \text{ N/mm}^2$$

$$f_{bc} = \frac{11.35 \times 10^3}{165.7} = 68.45 \text{ N/mm}^2 \text{ OK}$$

USE 152 X 152 X 23 UC @ 1ST & 2ND FLOOR LEVELS.

FOUNDATIONS





PLAN - GROUND FLOOR (FLOOR BEAMS SHOWN OVER)

LOADING VIA NEW WALLS @ GROUND LEVEL.

WALL LINE (A)

$$\begin{aligned} \text{S/W WALL (i)} &= 18.42 \times 2 / 2.200 &= 7.65 \text{ m/m.} \\ \text{---"--- (ii)} &= 18.0 \times 0.215 \times 7.800 &= 30.19 \text{ m/m.} \\ \text{FLOORS} &= 3 \times 3.14 \times 1.050 \times 1.000 &= 9.89 \text{ m/m} \\ \text{VIA PURLINS} &= 17.20 / 2.500 &= 5.88 \text{ m/m.} \\ \text{VIA CROSS WALL LINTOL} &= 3.82 / 2.500 &= 1.13 \text{ m/m.} \\ &&= 55.74 \text{ m/m.} \end{aligned}$$

WALL LINE (B)

$$\begin{aligned} \text{S/W WALL (i)} &= 7.65 \text{ m/m} \\ \text{---"--- (ii)} &= 30.19 \text{ m/m.} \\ \text{FLOOR!} &= 3 \times 3.14 \times 1.850 \times 1.000 &= 17.43 \text{ m/m} \\ \text{VIA PURLINS} &= 12.56 / 2.500 &= 7.42 \text{ m/m} \\ \text{VIA CROSS WALL LINTOL} &= 1.13 \text{ m/m} \\ &= 62.82 \text{ m/m.} \end{aligned}$$

WALL LINE (C)

$$\begin{aligned} \text{S/W WALL (i)} &= 7.65 \text{ m/m.} \\ \text{---"--- (ii)} &= 30.19 \text{ m/m.} \\ \text{VIA PURLINS} &= 31.22 / 4.000 &= 7.38 \text{ m/m.} \\ \text{VIA CROSS WALL LINTOL} &= 3 \times 18.0 \times 0.215 \times 0.750 \times 0.300 / 4.000 = 1.36 \text{ m/m} \\ \text{---"---} &= 3 \times 3.14 \times 1.350 / 2 \times 0.750 / 4.000 = 1.19 \text{ m/m.} \\ &= 48.97 \text{ m/m.} \end{aligned}$$

WALL LINE (D)

$$\begin{aligned} \text{S/W WALL (i)} &= 7.65 \text{ m/m.} \\ \text{---"--- (ii)} &= 30.19 \text{ m/m.} \\ \text{VIA PURLINS} &= 7.38 \text{ m/m.} \\ \text{VIA CROSS WALL LINTOL} &= 1.19 + 1.36 &= 3.15 \text{ m/m} \\ \text{FLOOR} &= 3 \times 3.14 \times 1.725 \times 1.000 &= 16.25 \text{ m/m.} \\ &= 65.22 \text{ m/m.} \end{aligned}$$

WALL LINE (E)

$$\begin{aligned} \text{S/W WALL (i) + (ii)} &= 37.64 \text{ m/m.} \\ \text{VIA CROSS WALL LINTOL} &= 3 \times 3.14 \times 1.000 \times 0.300 / 2.500 = 2.07 \text{ m/m} \\ \text{---"---} &= 3 \times 18.0 \times 0.215 \times 0.300 \times 0.300 / 2.500 = 2.00 \text{ m/m.} \\ \text{FLOOR} &= 3 \times 3.14 \times 1.100 \times 1.000 &= 10.32 \text{ m/m.} \\ &= 52.12 \text{ m/m.} \end{aligned}$$

WALL LINE (F).

S/W WALL (i)	= 7.29 m/m.	
(ii)	= 30.13 m/m.	
VIA RURLINS 17.36 / 4.200	= 3.60 m/m.	
VIA CROSS WALL LINTOL -	= 2.07 m/m.	
2.03 x 2.500 / 4.100	= 1.27 m/m.	
VIA EX. FLOOR BEAM (i) 3 x 2 / 5.000	= 0.75 m/m.	
VIA STAIR TRIMMER (5.23 + 6.23 + 6.23) / 2.400	= 7.35 m/m.	- FRONT
"	= 4.57 m/m.	- REAR
	<u>57.13 k/m.</u>	

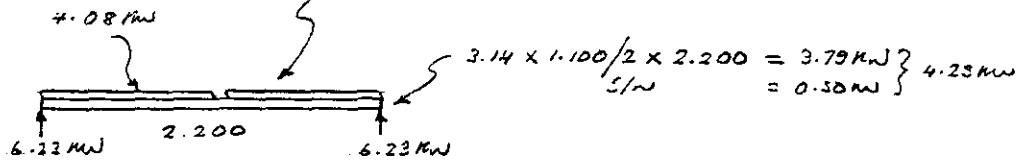
WALL LINE (G)

S/W WALL (i)	= 7.29 m/m.	
(ii)	= 30.13 m/m.	
VIA RURLINS	= 3.60 m/m.	
VIA CROSS WALL LINTOL -	= 1.27 m/m.	
VIA EX FLOOR BEAM	= 0.75 m/m.	- REAR
VIA STAIR TRIMMER	= 8.45 m/m.	
FLOOR - 3.14 x 1.700 / 2	= 2.67 m/m.	
	<u>54.22 k/m.</u>	

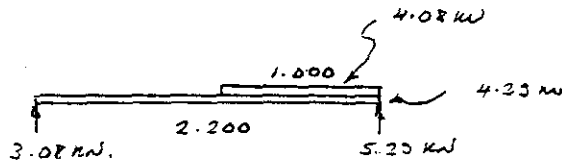
STAIR TRIMMER.

$$3.14 \times 1.000 \times 2.600 / 2 = 4.08 \text{ kN}$$

TYPE 1



TYPE 2



3rd $5.23 \times 2.400 = 12.55 \text{ kN/m}$

2nd $5.23 \times 2.400 = 12.55 \text{ kN/m}$

1st $5.23 \times 2.400 = 12.55 \text{ kN/m}$

SUSPENDED GROUND FLOOR.

LOADING

Superimposed	=	1.50 kN/m ²
Partitions	=	1.00 kN/m ²
Screed	=	1.80 kN/m ²
cast slab	=	5.31 kN/m ²
		<u>9.61 kN/m²</u>

span = 2.600 m.

$$M_{ult} = 1.5 \times 0.125 \times 9.61 \times 1.000 \times 2.600^2 = 12.19 \text{ kNm} \rightarrow \text{BETWEEN SUPPORTS.}$$

$$M_{ult} = 1.5 \times 9.61 \times 1.000 \times 1.225^2 / 2 = 10.82 \text{ kNm} \rightarrow \text{CANTELEVER}$$

TRY 225 THK SLAB.

$$K = \frac{12.19 \times 10^6}{1000 \times 140^2 \times 35} = 0.018$$

$$d = 225 - 75 - 7 - 3 = 140 \text{ mm.}$$

$$AS = \frac{12.19 \times 10^6}{0.87 \times 460 \times 133} = 229.02 \text{ mm}^2/\text{m. } 2 = 0.75d = 133 \text{ mm}$$

SLAB USE 225 mm THK.

REINFORCEMENT - USE B283 STRUCTURAL MECH. LAYER
TO TOP & BOTTOM.

SHEAR.

$$v = \frac{1.50 \times 9.61 \times 2.600 / 2 \times 10^3}{1000 \times 140} = 0.134 \text{ N/mm}^2$$

$$\frac{100 AS}{b \cdot d} = \frac{100 \times 283}{1000 \times 140} = 0.202$$

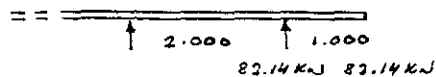
$$\therefore v_c = 0.48 \left(\frac{35}{25} \right)^{1/3} = 0.54 \text{ N/mm}^2$$

SINCE $v = v_c$ TREATED AS A SLAB NO SHEAR REINFORCEMENT REQUIRED.

SUSPENDED GROUND BEAM

ASSUME PILES @ 2.000m CRS.

CASE LINE G



$$\begin{aligned} \text{U.R.L (FLOOR)} & 3.61 \times 2400 = 23.06 \text{ kN/m} \\ \text{(WALL)} & = 54.22 \text{ kN/m} \rightarrow \text{INCL LOADS ABOVE} \\ \text{(S/W)} & = 4.86 \text{ kN/m} \\ & \underline{82.14 \text{ kN/m}} \end{aligned}$$

$$\begin{aligned} \text{Mullt} &= 1.5 \times 0.125 \times 82.14 \times 2.000^2 = 61.61 \text{ kNm} \rightarrow \text{BETWEEN SUPPORTS.} \\ &1.5 \times 22.14 \times 1.000^2 / 2 = 61.61 \text{ kNm} \rightarrow \text{CANTELEVER} \end{aligned}$$

OR/ SEE BELOW

TRAY SECTION 450 X 450

$$K = \frac{68.83 \times 10^6}{450 \times 353^2 \times 35} = 0.035 < 0.156 \quad d = 450 - 75 - 12 - 10 = 353 \text{ mm}$$

$$A_s = \frac{68.83 \times 10^6}{0.87 \times 460 \times 335.35} = 512.31 \text{ mm}^2 \quad z = 0.95d = 335.35 \text{ mm} \quad (\text{T20})$$

USE 4 - T20 BARS. (628 mm²)

SHEAR

$$v = \frac{1.5 \times 82.14 \times 1.14 \times 10^3}{450 \times 357} = 0.87 \text{ N/mm}^2 \quad \text{UNDER WALL CASE.}$$

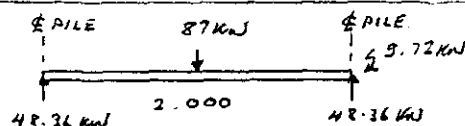
$$\frac{100 A_s}{b u d} = \frac{100 \times 628}{450 \times 357} = 0.38 \quad \therefore v_c = 0.47 \left(\frac{35}{25} \right)^{1/3} = 0.53 \text{ N/mm}^2$$

$$0.5 v_c < v < (v_c + 0.4) \quad \therefore \text{PROVIDE MINIMUM LINKS.}$$

$$A_{sv} = \frac{0.4 \times 450 \times 250}{0.87 \times 250} = 206.83 \text{ mm}^2 \quad (\text{R12})$$

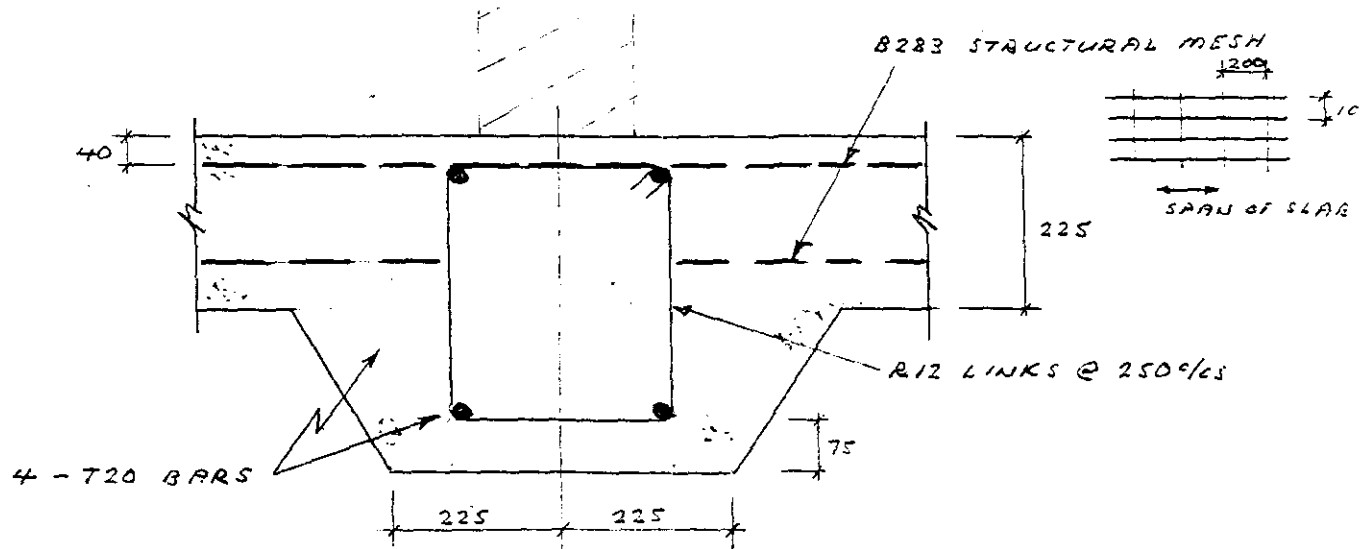
USE R12 LINKS @ 250/60.
(226.08 mm²)

CONSIDER GROUND BEAM WITH POINT LOAD VIA PILE -

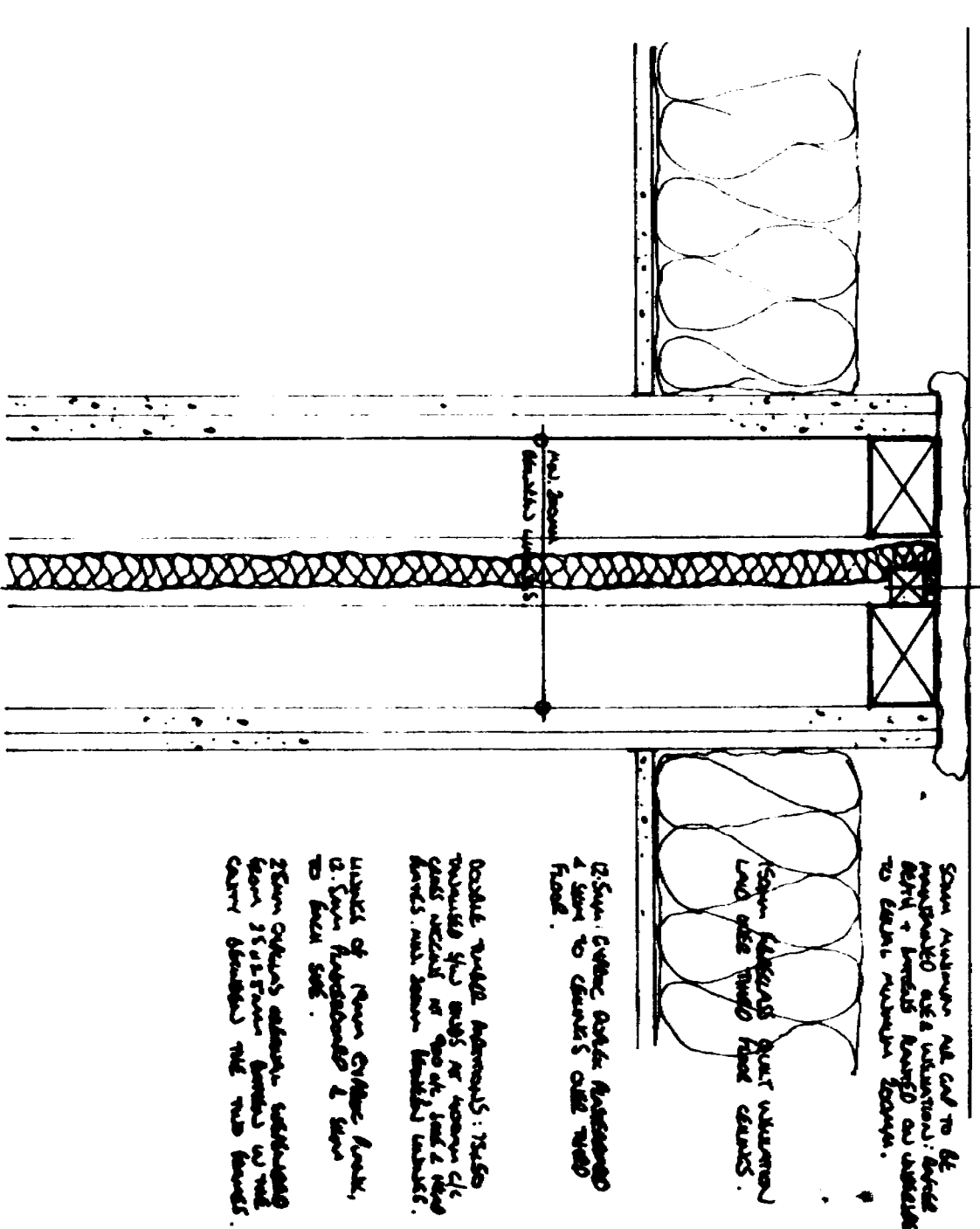


$$\begin{aligned} \text{Mullt} &= 1.5 (0.250 \times 87.10 \times 2.000 + 0.125 \times 3.72 \times 2.000) \\ &= 68.53 \text{ kNm.} \end{aligned}$$

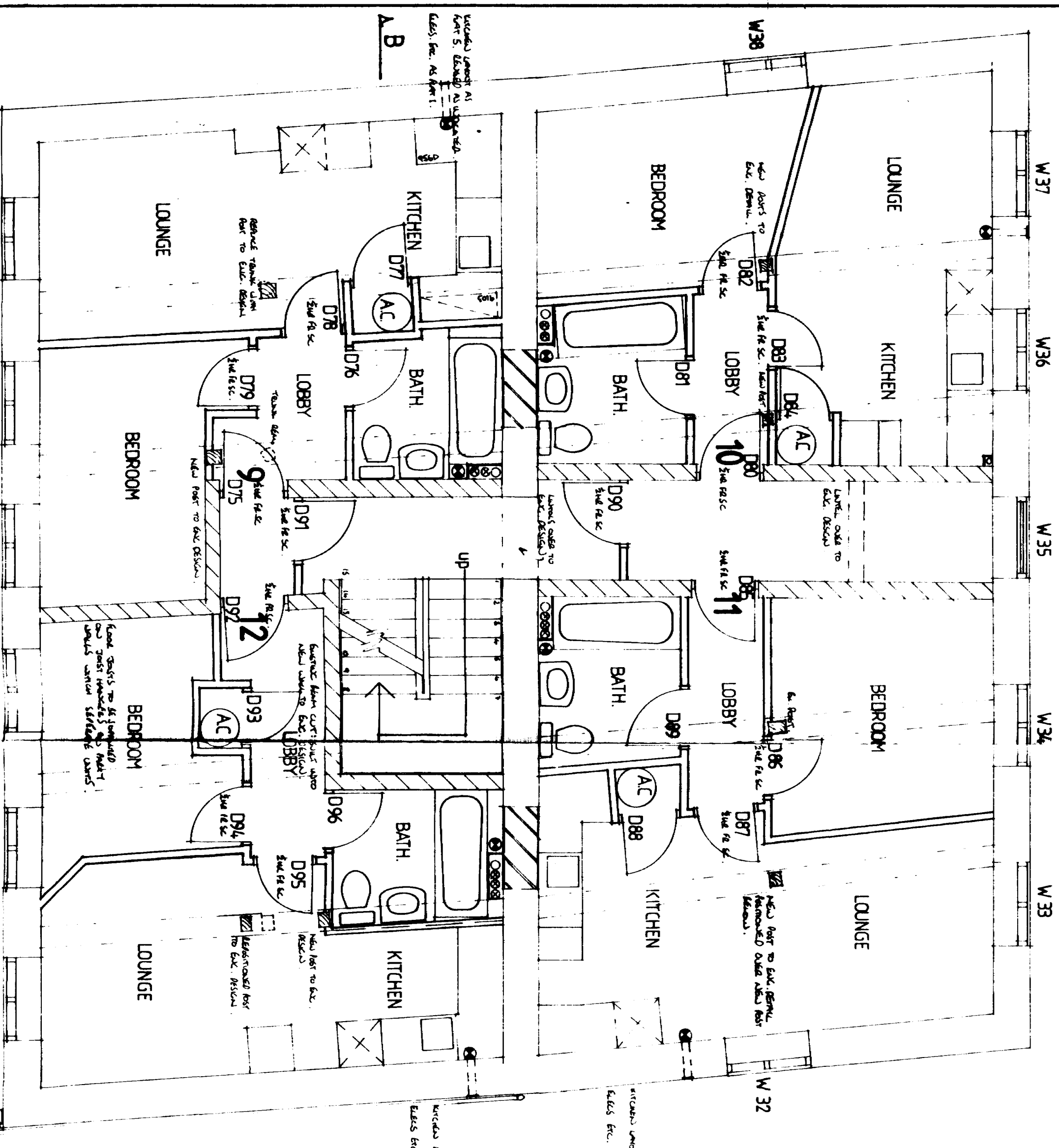
OBVIOUSLY THIS CASE GOVERNS DESIGN.



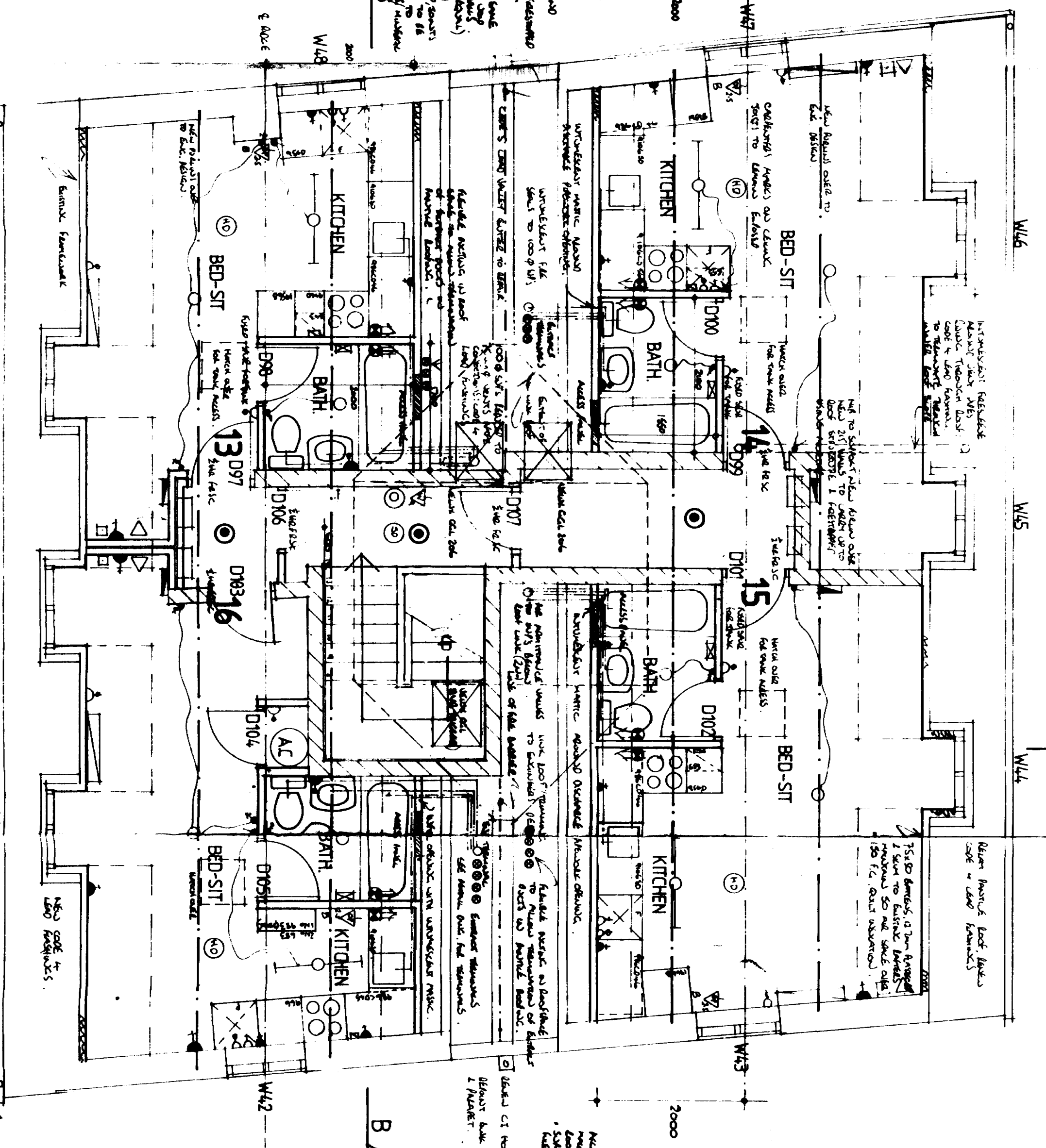
TYPICAL SECTION
SUSPENDED GROUND BEAM.



TIMBER STUD SEPARATING WALL
BETWEEN FLAT 13/16. 1:5



SECOND FLOOR PLAN



THIRD FLOOR PLAN

LONGHURST H.A.

LONGS WAREHOUSE

PROPOSED SECOND & THIRD FLOORS

RIVERSIDE DEVELOPMENT

DOUBLE STREET SPALDING LINS

Meldrum Lee & Gillett

Architects Quantity Surveyors

Management & Construction

1501/1503

12275: 19

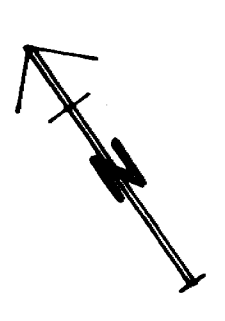
E.

Longhurst H.A.

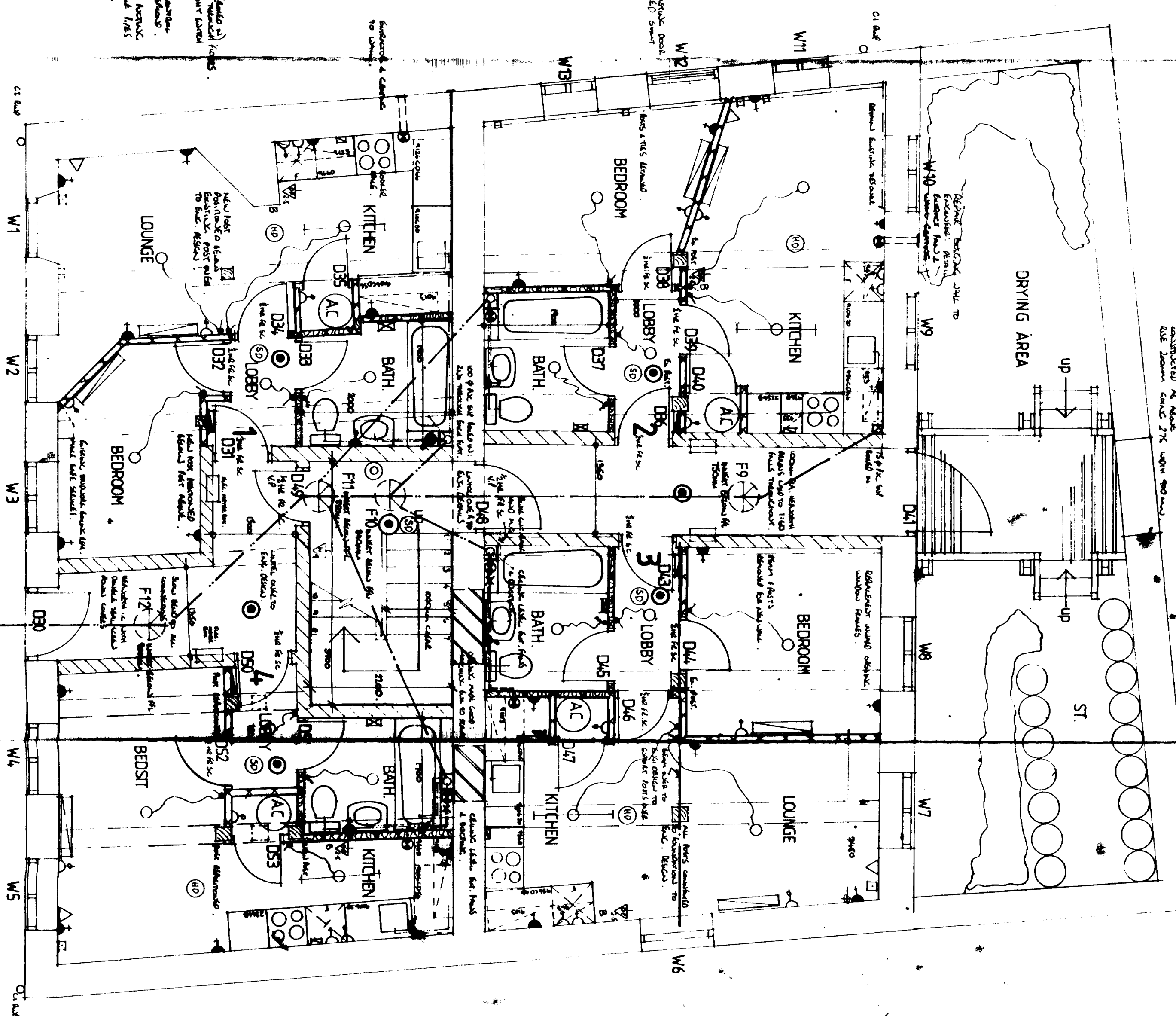
Longs Warehouse

Proposed Second & Third Floors

* install file system & file servers as shown below

[illegible]

NOTE: EARLIEST PRACTITIONERS 1
TO BE ABLE TO ADDRESS ADVANCEMENT OF FUNDING

[illegible]

Omit Name and Addressing Labels
 to Reduce Unnecessary and Unwanted
 Mail Delivery.

Send to: **SENATOR ROBERT DUTCH**
 15 OCT 1993

✓ 9 Lines unter **BRUNNENWEG**.
 ✓ 25 Skizze der fäulnisförmigen.

Note: felt under system is to exclude a (new) - lead informed with linked to feel interested in first to be informed about future needs (no indirect needs at present from contacts).

600-2000. Spacing used listed below, to full final
adjustment, with intervals from calendar: 600, 700,
800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000.

☐ C. the microarray used 18,000 antibodies against 100,000 genes to identify genes that were upregulated.

LONGS WAREHOUSE
PROPOSED GROUND & FIRST FLOOR



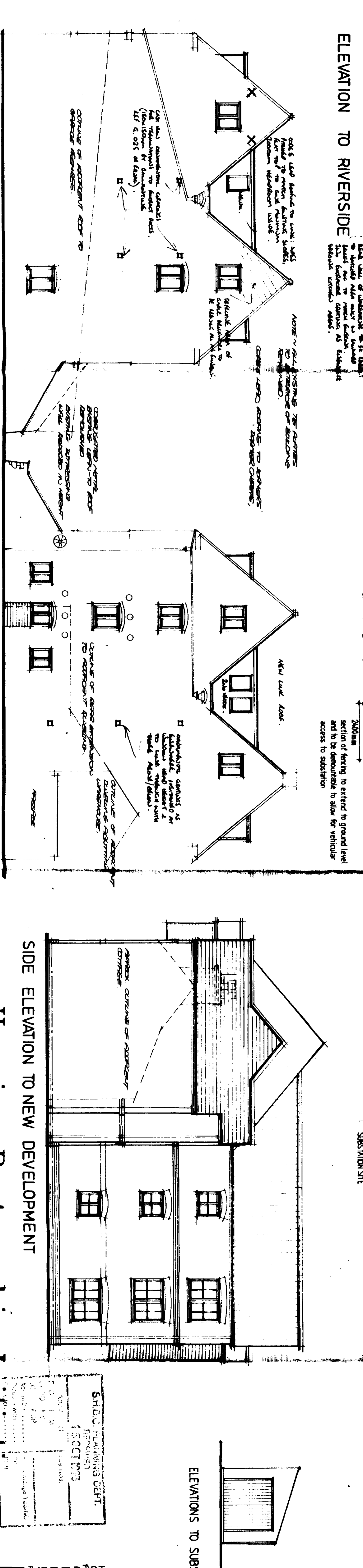
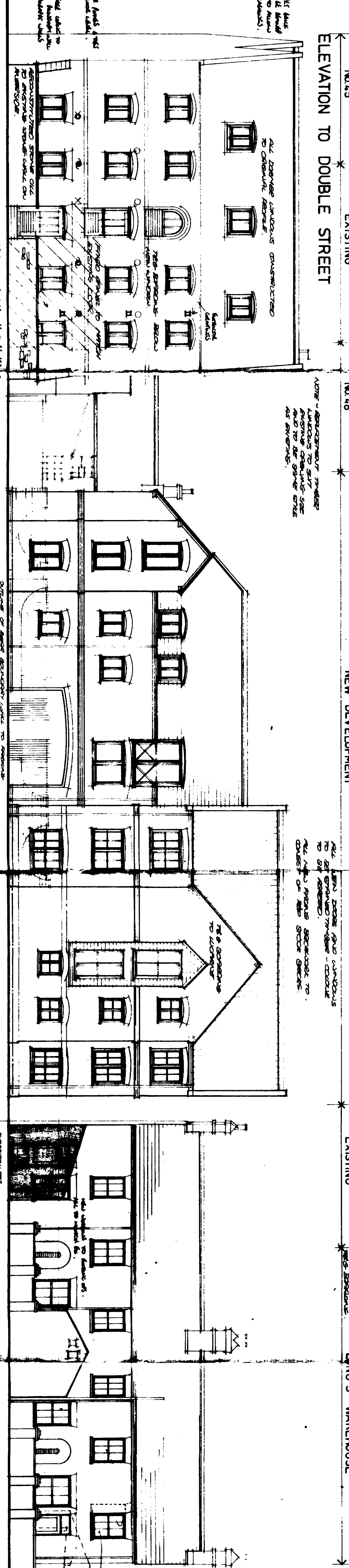
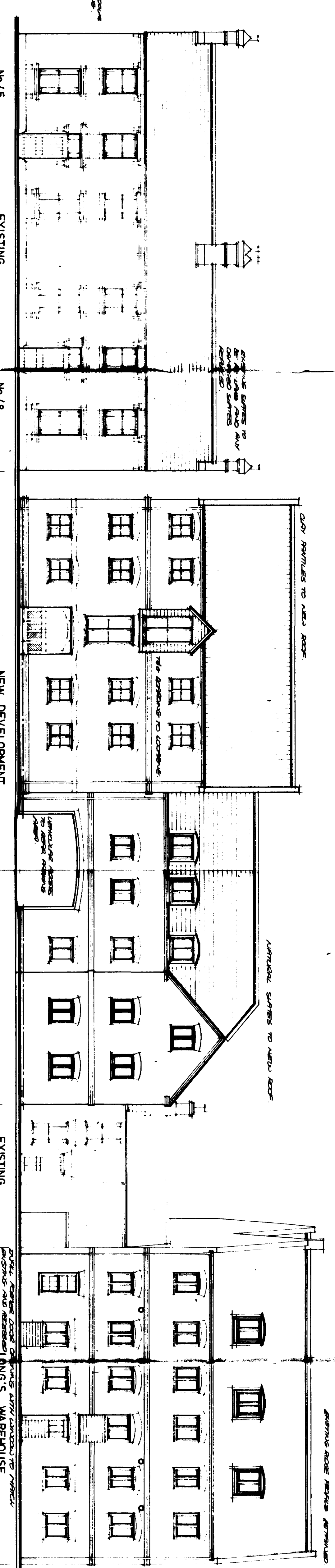
Meldrum Lee & Gilliat
Architects, Quantity Surveyors
Management & Cost Consultants

Date MAY '93 Drawn by

Score	1:50	Checked by
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Drawing No.	Revision
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12275:18	1.
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ELEVATIONS

Meldrum Lee & Gillett
Architect, Quantity Surveyors
Management & Cost Consultants

Project: Housing Partnership Initiative
for Riverside Development
Double Street, Spalding

Client: Broadgate Homes
Brookgate Builders (Spalding) Limited

Scale: 1:100
Date: JANUARY 1993

Sheet: 12275.12

SHO. PLANNING DEPT.
1 OCT 1993

SHO. PLANNING DEPT.
1 OCT 1993

Notes:

1. All elevations shown are to be constructed in accordance with the approved plans and specifications.

2. All elevations shown are to be constructed in accordance with the approved plans and specifications.

3. All elevations shown are to be constructed in accordance with the approved plans and specifications.

4. All elevations shown are to be constructed in accordance with the approved plans and specifications.

5. All elevations shown are to be constructed in accordance with the approved plans and specifications.

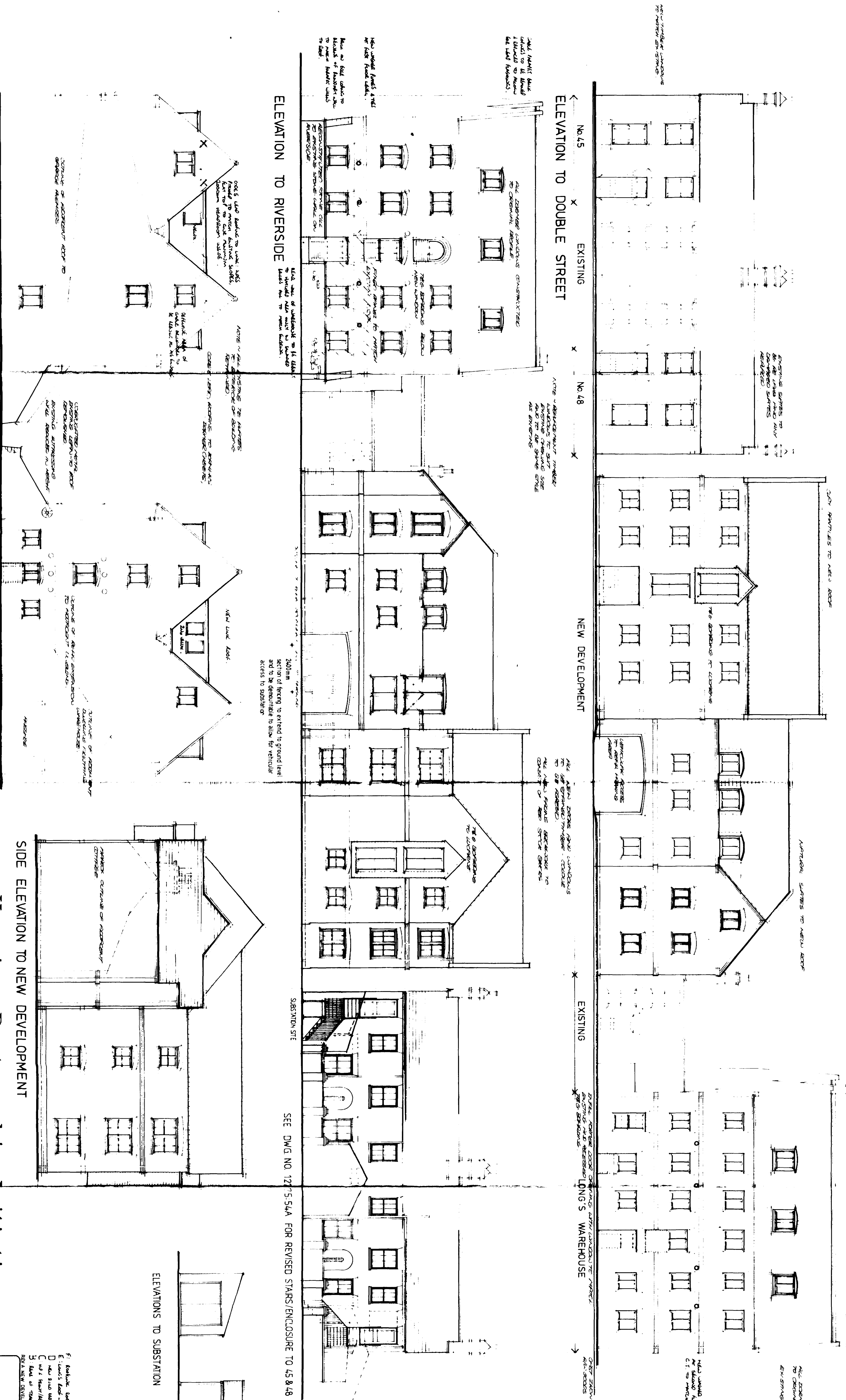
6. All elevations shown are to be constructed in accordance with the approved plans and specifications.

7. All elevations shown are to be constructed in accordance with the approved plans and specifications.

8. All elevations shown are to be constructed in accordance with the approved plans and specifications.

9. All elevations shown are to be constructed in accordance with the approved plans and specifications.

10. All elevations shown are to be constructed in accordance with the approved plans and specifications.

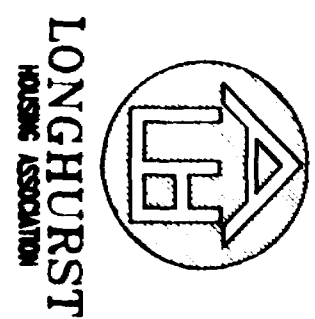


SIDE ELEVATIONS TO LONG'S WAREHOUSE

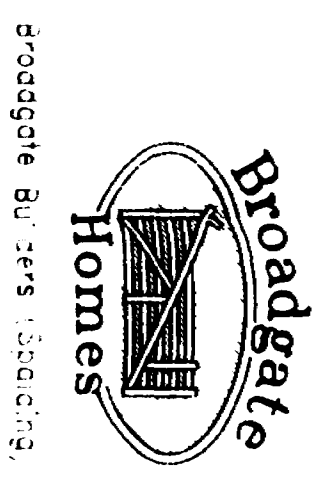
SIDE ELEVATION TO NEW DEVELOPMENT

ELEVATIONS TO SUBSTATION

Housing Partnership Initiative
for Riverside Development
Double Street, Spalding



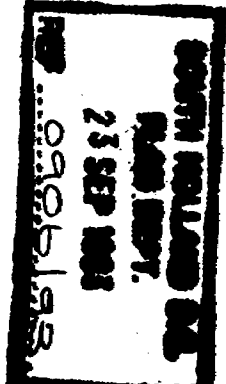
S O U T H
H O L L A N D
D I S T R I C T C O U N C I L



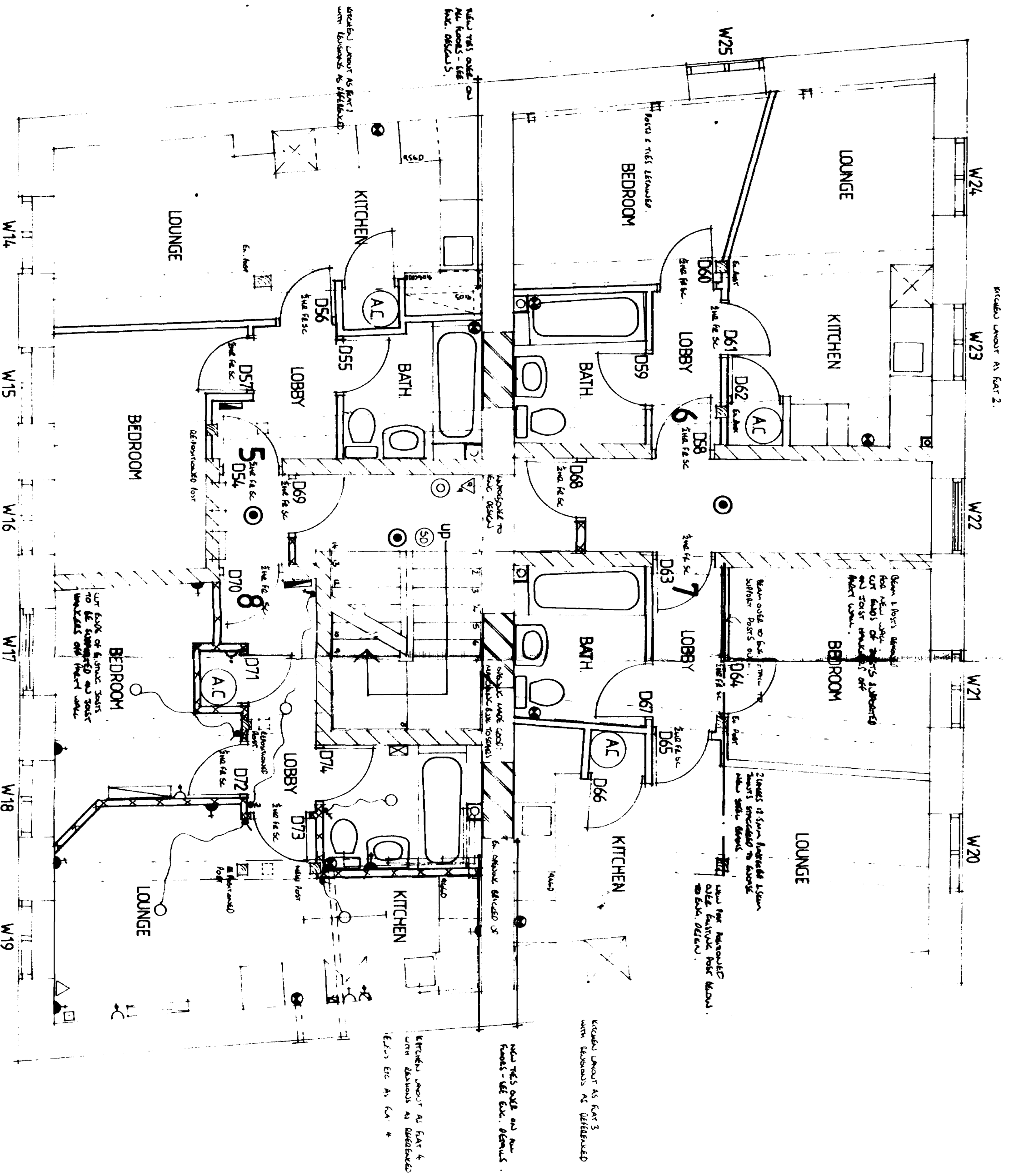
ELEVATIONS

Meldrum Lee & Gillott
Architects, Quantity Surveyors
Management & Cost Consultants

Date: JANUARY 1993	
Scale: 1:100	Checked by: [Signature]
Drawing No: 12275-12	Revision: f

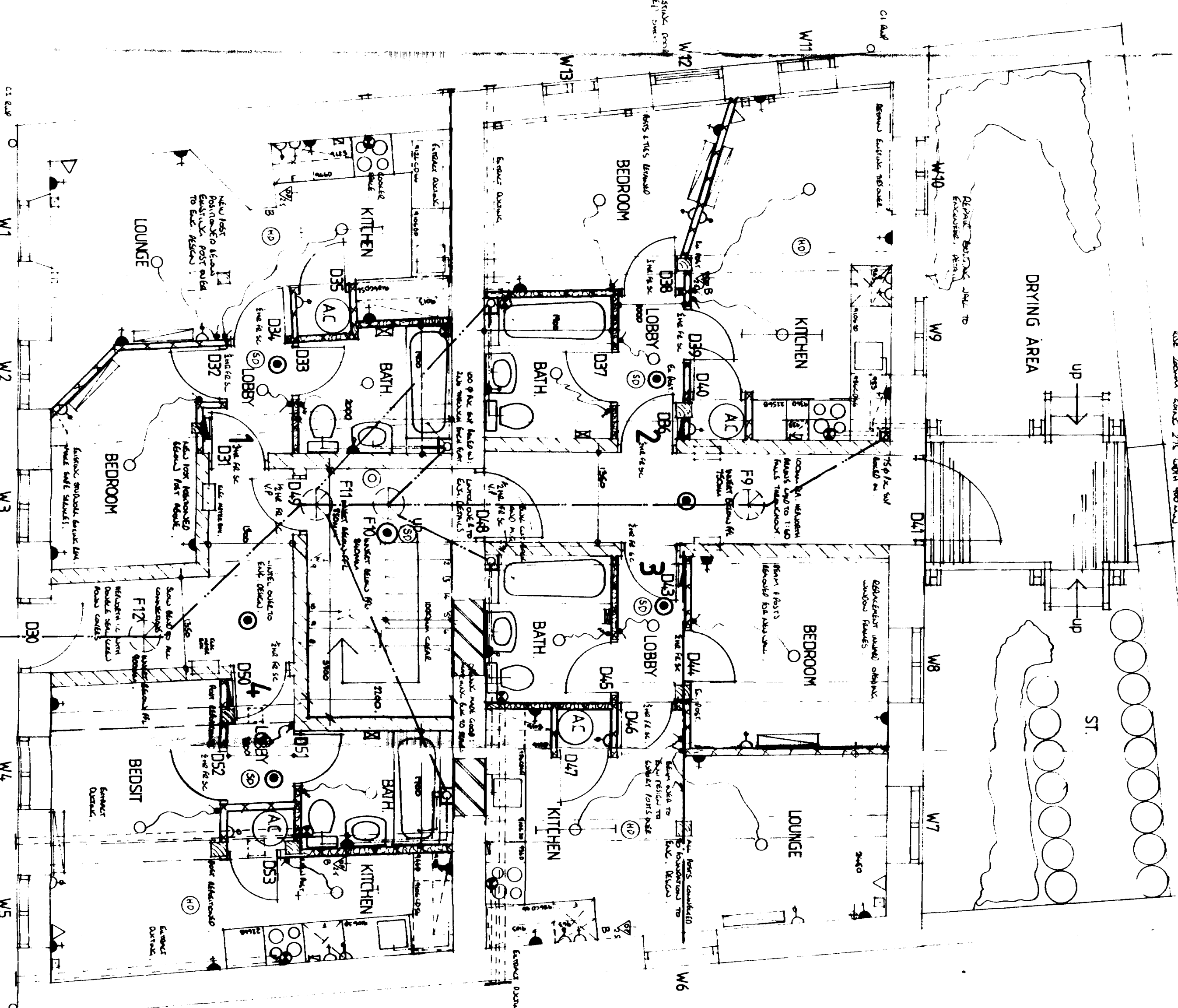


- A. Existing building's structural condition has been assessed and found to be satisfactory.
- B. Existing building's structural condition has been assessed and found to be satisfactory.
- C. A new building will be constructed to the same standards as the existing building.
- D. A new building will be constructed to the same standards as the existing building.
- E. A new building will be constructed to the same standards as the existing building.



FIRST FLOOR PLAN

* MINIMUM FEE: £1000 + £100 PER ROOM + £100 PER UNIT



GROUND FLOOR PLAN

CONSTRUCTION NOTES:
1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE BUILDING REGULATIONS 1991.
2. ALL WORK TO BE DONE IN ACCORDANCE WITH THE BUILDING REGULATIONS 1991.
3. ALL WORK TO BE DONE IN ACCORDANCE WITH THE BUILDING REGULATIONS 1991.

KEY TO FIRE PRECAUTIONS

- 1. Fire escape route
- 2. Fire escape route
- 3. Fire escape route
- 4. Fire escape route
- 5. Fire escape route
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- 100. Fire escape route

23 SEP 1993

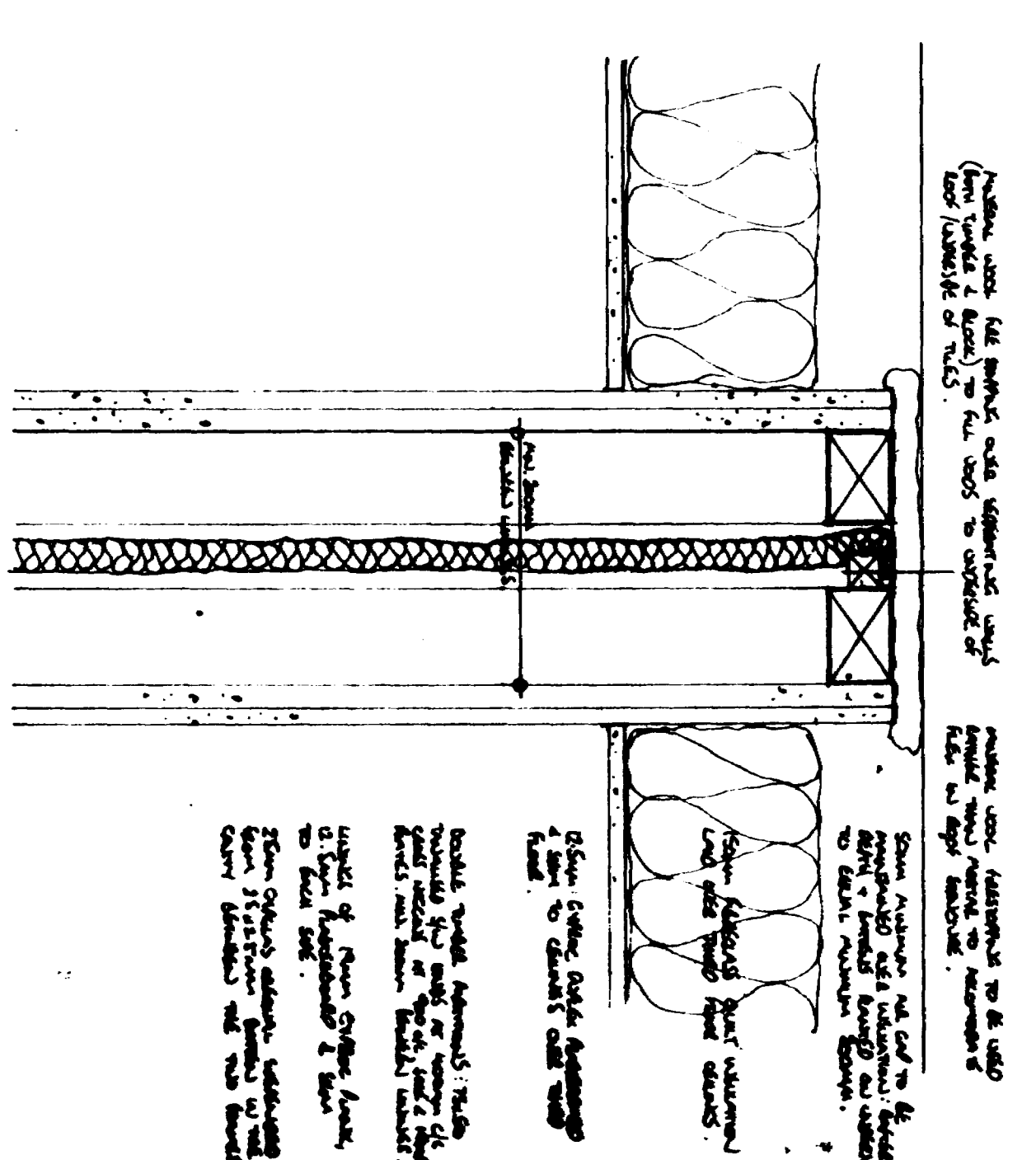
RIVERSIDE DEVELOPMENT
DOUBLE STREET SPALDING LINS.

LONGHURST H.A.

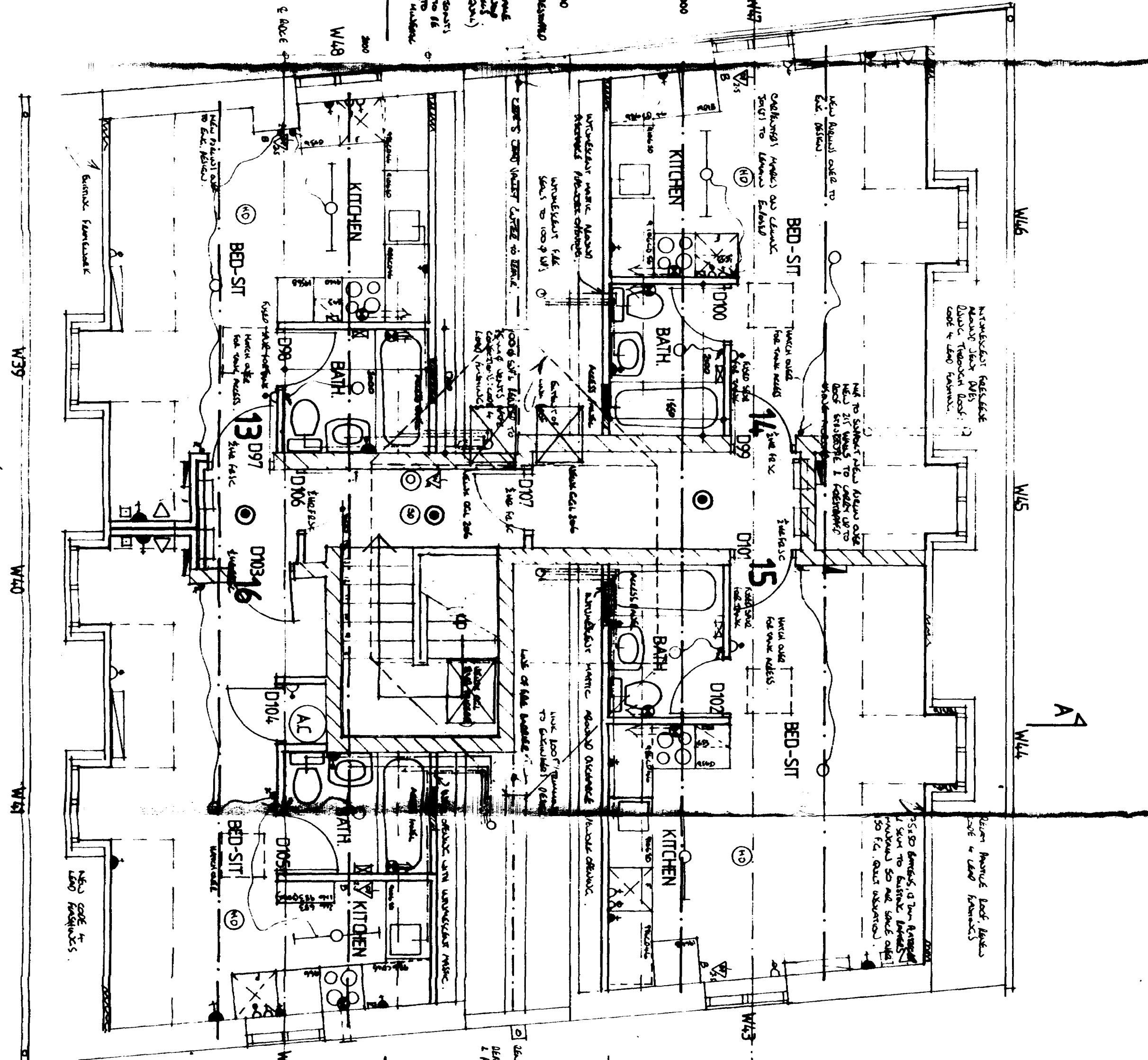
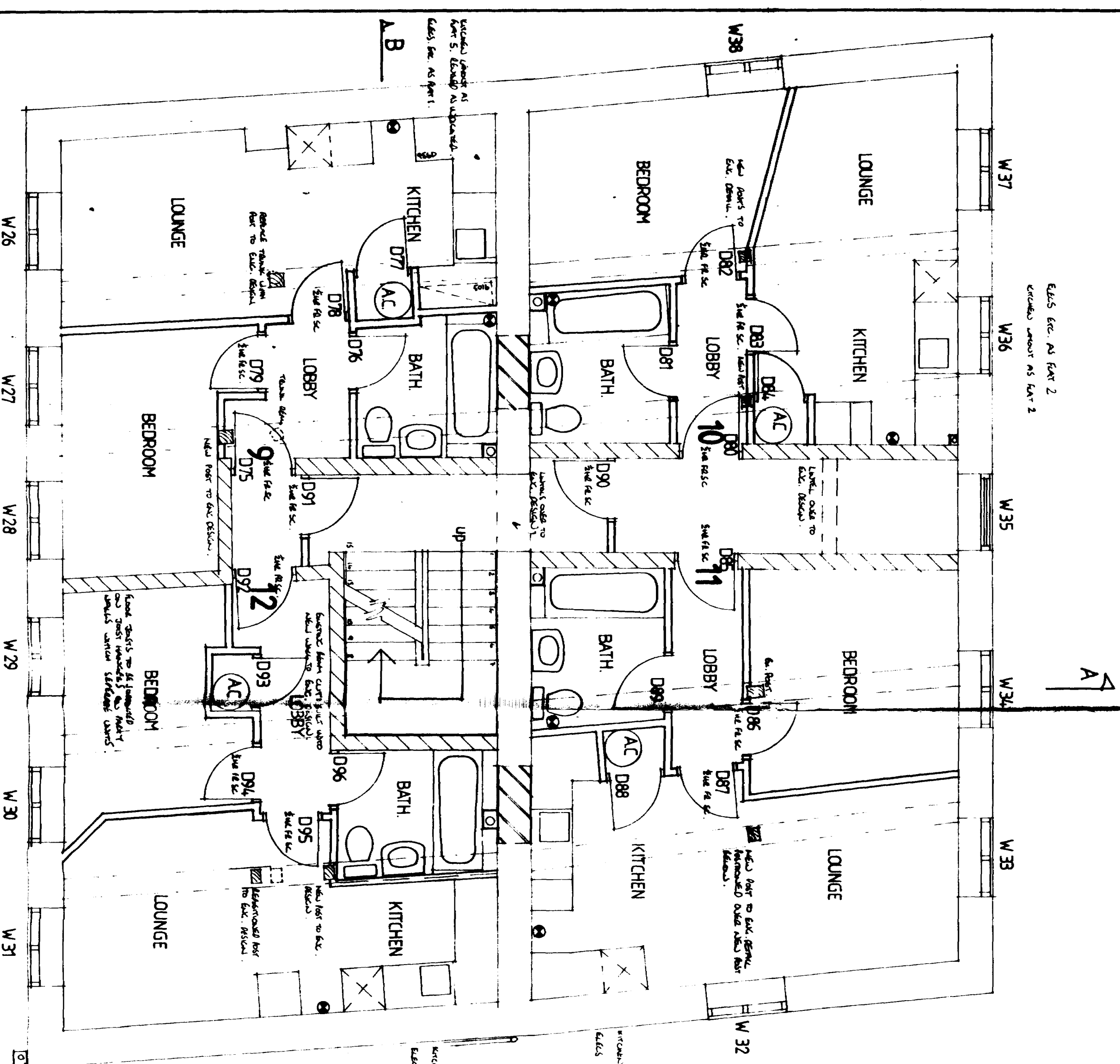
LONGS WAREHOUSE
PROPOSED GROUND & FIRST FLOOR

Meldrum Lee & Gillett
Architects, Quantity Surveyors
Management & Cost Consultants

Drawn by: MAY '93
Checked by: 12275.18
Revision: C



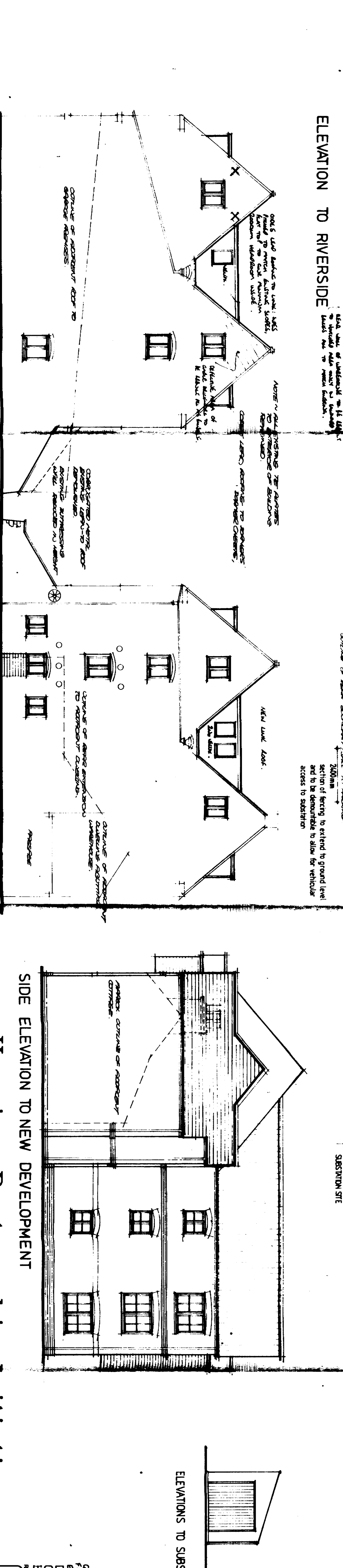
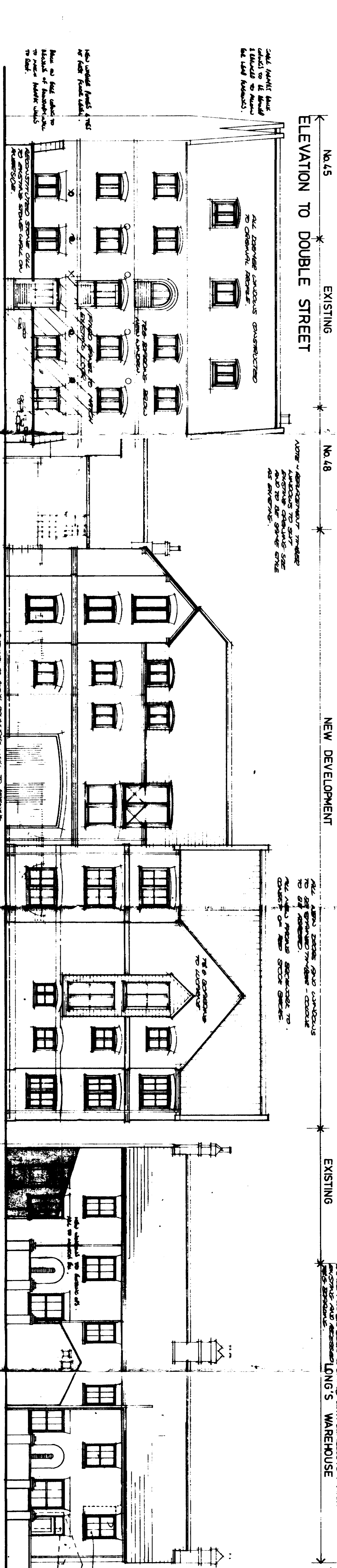
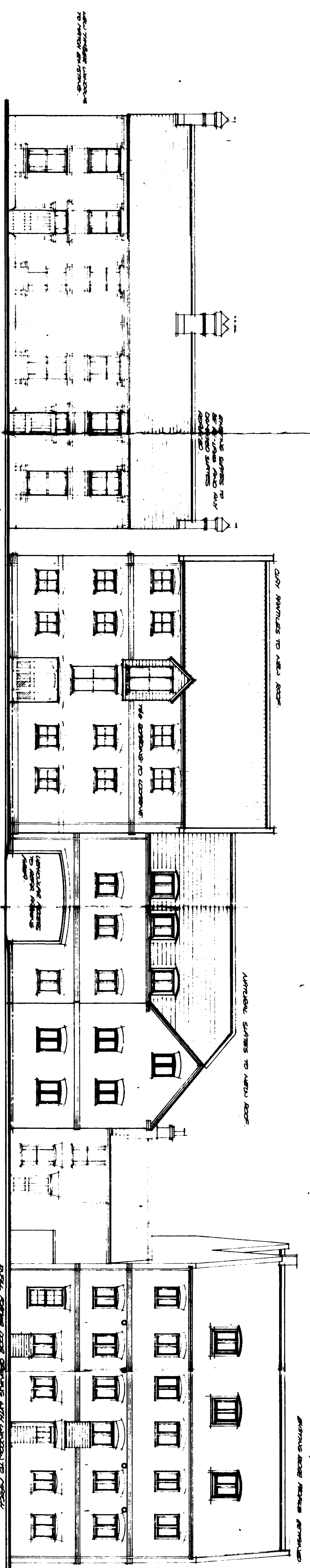
TIMBER STUD SEPARATING WALL
BETWEEN FLAT 13/16, 1:5



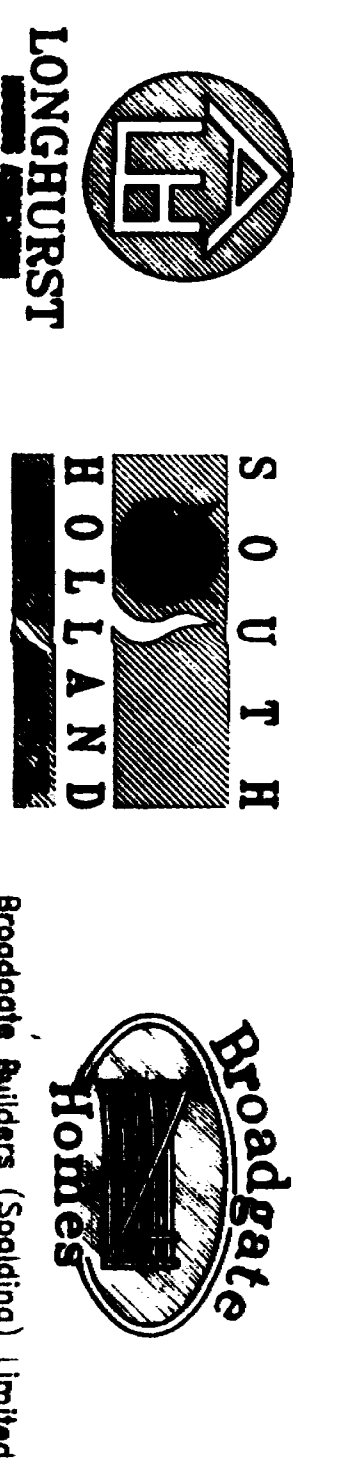
RIVERSIDE DEVELOPMENT
DOUBLE STREET, SPALDING LINGS
LONGBURST H. A.
LONGS WAREHOUSE
PROPOSED SECOND & THIRD FLOORS

Meldrum Lee & Gilliat
Architects, Quantity Surveyors
Management & Cost Consultants
150
MAY '93
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23 SEP 1993
23 SEP 1993



Housing Partnership Initiative
for Riverside Development
Double Street, Spalding



ELEVATIONS

AMENDED PLAN

Meldrum Lee & Smith
Architects, Quantity Surveyors
Management & Cost Consultants

Date: **JANUARY 1993**

Scale: **1:100**

Drawing No: **12275.12**

Sheet: **6**

Consultant: **Longhurst**