

Job: 20-0772A

Client: Tara Homes
Phone:

VIP Frames & Trusses

ASBUILT TRUSS BC200253

New House
Lot 1460 24 Awatere Street
Pegasus

Fabricator Design Statement : Page 1

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Description: New House
Building Consent No.:
MiTek 20/20 Engineering 4.7.301.0

Phone:

Printed: 10:32:18 28 May 2020

As built design
BC200253

MITEK FABRICATOR DESIGN STATEMENT

This statement is issued by MiTek accredited fabricator **VIP Frames & Trusses**, being licensed to use the MiTek 20/20® software, to the client listed above and may be used by the Building Consent Authority to assist in determining compliance with the New Zealand Building Code.

MiTek 20/20® TRUSS DESIGN DATA

The MiTek 20/20® computer design for this job is based on the following design parameters entered into the program. The Fabricator shall ensure that these job details are current and relevant to the project for the design of the MiTek® trusses.

Job Details

Importance Level : 2

Design Working Life : 50 years

Roof Truss

Timber Group: ~MSGx45 H1.2

Pitch: 25.000 deg

Nominal Overhang: 600 mm

Roof

Material: Galv Iron .5mm

Ceiling

Material: Gib Board 12mm

Dead Load: 0.210 kPa

Dead Load: 0.200 kPa

Restraints: 900 mm centres

Restraints: 600 mm centres

Live Load: Qur = 0.250 kPa

Live Load: Qc = 1.400 kN

Qc = 1.100 kN

Wind

Area: High (44.0 m/s)

Pressure Coeff: Cpe = varies; Cpi = -0.30, 0.20

Snow

Location: Christchurch (N4) at 100 m

Open Ground Load: 0.900 kPa

Basic Roof Load: 0.441 kPa

The minimum timber treatment for these MiTek® trusses shall be in accordance with B2/AS1 Table 1A and the relevant sections of NZS 3602:2003. The timber for these MiTek® trusses shall be graded to the requirements of NZS 3603:1993. Proprietary fixings and timber connectors shall be selected in accordance with NZS3604:2011 Section 4 - Durability.

MiTek® Truss List

Legend: * = detail only, ? = input only, ✕ = failed design, Ø = non certified, Unmarked trusses = designed successfully, LB = lateral bracing required
GB = gable brace required

Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)
*H1	1	2414	18.249	900	*R2	1	1325	25.000	900	T4	2	2687	25.000	682
*H2	1	5652	18.249	900	*R3	5	913	25.000	900	V1	1	1244	25.000	900
*H3	2	3467	18.249	900	*R4	5	913	25.000	900	V2	1	2144	25.000	900
*H4	2	5900	18.249	900	*R5	1	1580	25.000	900	V3	1	814	25.000	911
*H5	1	1392	18.249	900	*R6	1	1580	25.000	900	V4	1	1724	25.000	911
*H6	1	2152	18.249	900	*R7	2	1500	25.000	900	V5	1	1406	25.000	900
J1	1	2512	25.000	900	*R8	1	5680	25.000	900	V6	1	918	25.000	900
J3	1	1612	25.000	900	*R9	10	1305	0.000	688	J2	1	2512	25.000	900
J4	1	1612	25.000	900	S1	4	6870	25.000	900	J11	1	2687	25.000	900
J5	1	1867	25.000	900	S3	3	3780	25.000	900	J11A	1	2687	25.000	900
J6	1	1867	25.000	900	S4	1	5399	25.000	900	S2	1	3780	25.000	900
J7	1	1867	25.000	900	S5	1	6535	25.000	900	T1	1	6870	25.000	900
J8	2	2687	25.000	900	S6	1	7220	25.000	900	T2	1	5399	25.000	900
J9	2	2687	25.000	900	S7	1	7220	25.000	900	T3	1	6535	25.000	900
J10	2	2687	25.000	900	S8	1	6870	25.000	900	S9	1	4235	25.000	911
J12	2	1787	25.000	900	S10	1	4235	25.000	911	S13	1	4480	25.000	900
J13	2	1787	25.000	900	S11	1	4480	25.000	900					
*R1	1	901	25.000	900	S12	1	4480	25.000	900					

Total quantity : 83

The computer design input has been carried out by:

Signed: 

Date: ...Thursday, 28 May 2020....

Name of Detailer: Anton Musson

Qualifications and Title: Detailer

On behalf of:

VIP Frames & Trusses



ASBUILT TRUSS BC200253

RECEIVED 22/06/2020

MiTek New Zealand Limited

Correspondence from : **AUCKLAND**
40 Neales Road, East Tamaki 2013
PO Box 58-014, Botany 2163
As built design
BC200253
Phone: 09 274 7109
Fax: 09 274 7100

CHRISTCHURCH
14 Pilkington Way, Wigram 8042
PO Box 8387, Riccarton 8440
Phone: 03 348 8691
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www.mitek.nz.co.nz

MiTek 20/20 Engineering 4.7.301.0

Printed: 10:32:18 28 May 2020

PRODUCER STATEMENT for MiTek 20/20® TRUSS DESIGN - Version 4.7**ISSUED BY: MiTek New Zealand Limited****TO: VIP Frames & Trusses****IN RESPECT OF: MiTek® Truss Designs**

This producer statement covers the MiTek 20/20® truss design and the structural performance of the GANG-NAIL® connector plate for the job reference **20-0772A** and may be used by a Building Consent Authority to assist in determining compliance with the New Zealand Building Code.

The MiTek 20/20® truss design program has been developed by MiTek New Zealand Limited for the design of MiTek® timber roof, floor and attic trusses in New Zealand. The truss designs computed by MiTek 20/20® are prepared using sound and widely accepted engineering principles, and in accordance with compliance documents of the New Zealand Building Code and Verification Method B1/VM1; and internationally accepted standard ANSI/TPI 1 - 2002 as an alternative solution, to satisfy the requirements of Clause B1 of the New Zealand Building Code.

On behalf of MiTek New Zealand Limited, and subject to:

- i) All proprietary products meeting their performance specification requirements
- ii) The provision of adequate roof bracing and overall building stability
- iii) Correct selection and placement of GANG-NAIL connector plates
- iv) Correct input of Truss Design Data as shown in the Fabricator Design Statement for this job
- v) The design being undertaken by the accredited fabricator under the terms of the software licence
- vi) Timber is graded to the requirements of NZS 3603:1993
- vii) Minimum timber treatment for these MiTek® trusses shall be in accordance with B2/AS1 Table 1A and the relevant sections of NZS 3602:2003

I believe on reasonable grounds that the trusses, if constructed in accordance with the MiTek 20/20® truss design and shop drawings, will comply with the relevant provisions of the New Zealand Building Code.

MiTek New Zealand Limited holds a current policy of Professional Indemnity Insurance no less than \$500,000.

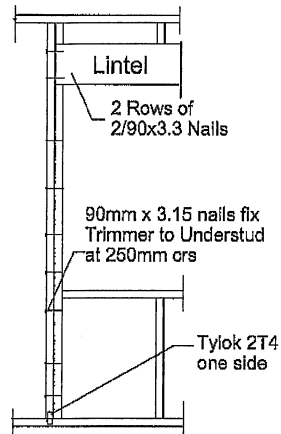
On behalf of MiTek New Zealand Limited,**Date: Thursday, 28 May 2020**

In Ling Ng, BE (Hons), CPEng, IntPE, MIPENZ (ID: 146585)
TECHNICAL SERVICES MANAGER, MiTek New Zealand Limited

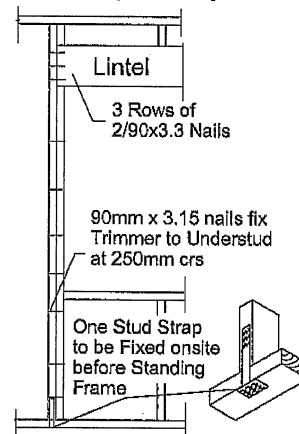
As built design
BC200253

Lintel Fixings

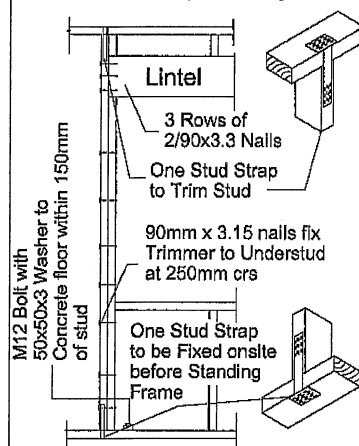
Type E (1.4kN)



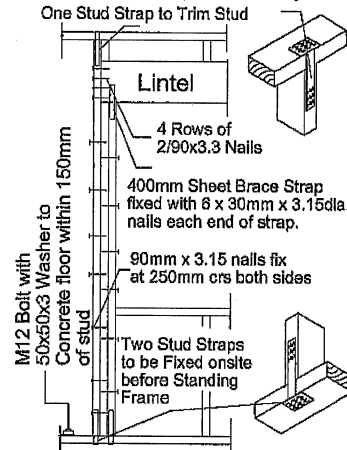
Type F (4.0kN)



Type G (7.5kN)



Type H (13.5kN)

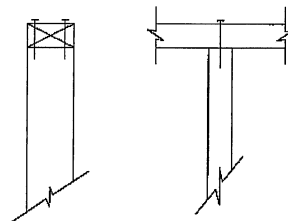


Note. Stud numbers indicative only. Refer Table 8.5 NZS 3604:2011
For fixing of Jack Studs to lintel and top plate refer to "Stud to
Top Plate Fixing Schedule"

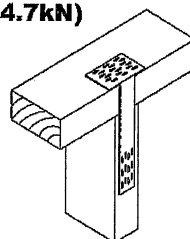
Top Plate Fixings

Fixing Type A (0.7kN)

2/90x3.33 Plain Steel Wirenails
Driven Vertically Into Stud



Fixing Type B (4.7kN)



GANG NAIL Stud Strap
Design Capacity 6.1 kN
AS1720.1-1997



200 Maces Road
PO Box 35-193 Christchurch
Ph (03) 389 8200

JOB No **20-0772A**

Client: Tara Homes
Job Name: New House
Address: Lot 1460 24 Awatere Street
Pegasus

Pitch: 25.000
Roof Material: Galv Iron .5mm
Soffit Overhang: 600
Wind Area: High
Snow Load: 0.441

Trusses And Rafters At 900 Centres
Unless Stated Otherwise

ASBUILT TRUSS BC200253

DRAWN BY Anton Musson
DATE 28 May, 2020 PAGE 1 of 1
FIXINGS

A=47x90 JH
B=47x120 JH
D=47x190 JH
E=95x165 JH
C=2xCT200's
M=Multigrips
N=Nail On Plate
L=Pair CPC 40
P=Pair CPC 80

Joist Hanger
CT 200
Multi Grip
Nail on plate
CPC

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NOTE
Please contact VIP Frames and Trusses Ltd for any queries regarding this layout or if any on site remedial work is required.
No modifications to Roof Trusses or Wall Frames are to be undertaken without first obtaining written authority from VIP Frames and Trusses Ltd.

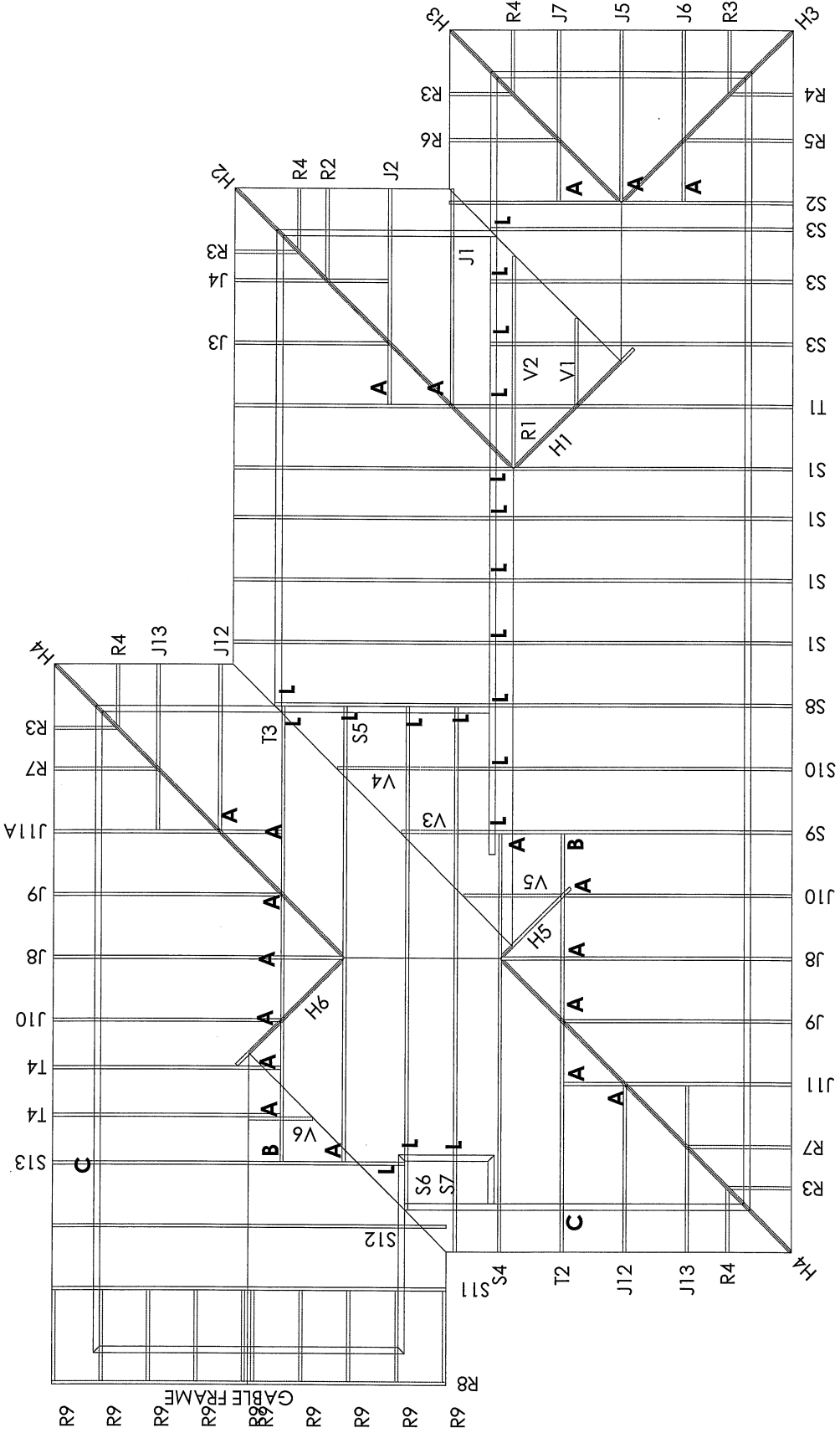
As built design
BC200253

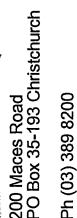
TRUSS FIXING LAYOUT

0800 PRENAIL (0800 773 6245) ANTON MUSSON

VALLEY TRUSS = 2/90x3.15 SKEW NAILS + 2 WIRE DOGS UNLESS STATED OTHERWISE

MULTI-PLY NAILING (TOP CHORD = 1 row @ 180 ctrs, BOTTOM CHORD = 1 row @ 280 ctrs, WEBS = 1 row @ 140 ctrs)





JOB No 20-0772A

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Pegasus

Pitch: 25.000
Roof Material: Galv Iron .5mm
Soffit Overhang: 600
Wind Area: High
Snow Load: 0.441

Trusses And Rafters At 900 Centres
Unless Stated Otherwise

ASBUILT TRUSS BC200253

DRAWN BY	Anton Musson
DATE	28 May, 2020
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ULT TRUSS
As built design
BC200253

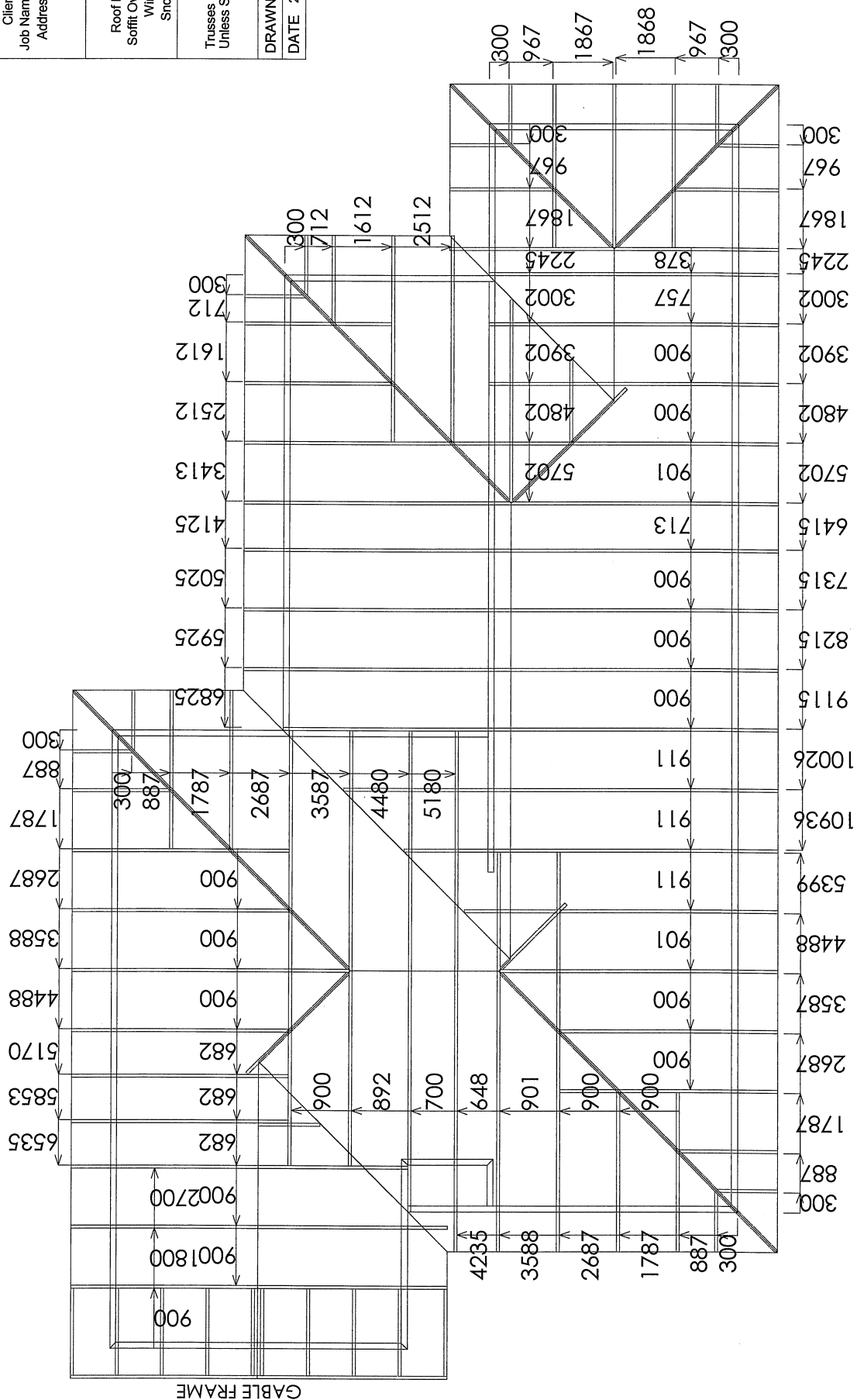
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TRUSS DIMENSION LAYOUT

0800 PRENAIL (0800 773 6245) ANTON MUSSON

VALLEY TRUSS = 2/90x3.15 SKEW NAILS + 2 WIRE DOGS UNLESS STATED OTHERWISE

MULTI-PLY NAILING (TOP CHORD = 1 row @ 180 ctrs, BOTTOM CHORD = 1 row @ 280 ctrs, WEBS = 1 row @ 140 ctrs)



STUD TO TOP PLATE FIXINGS

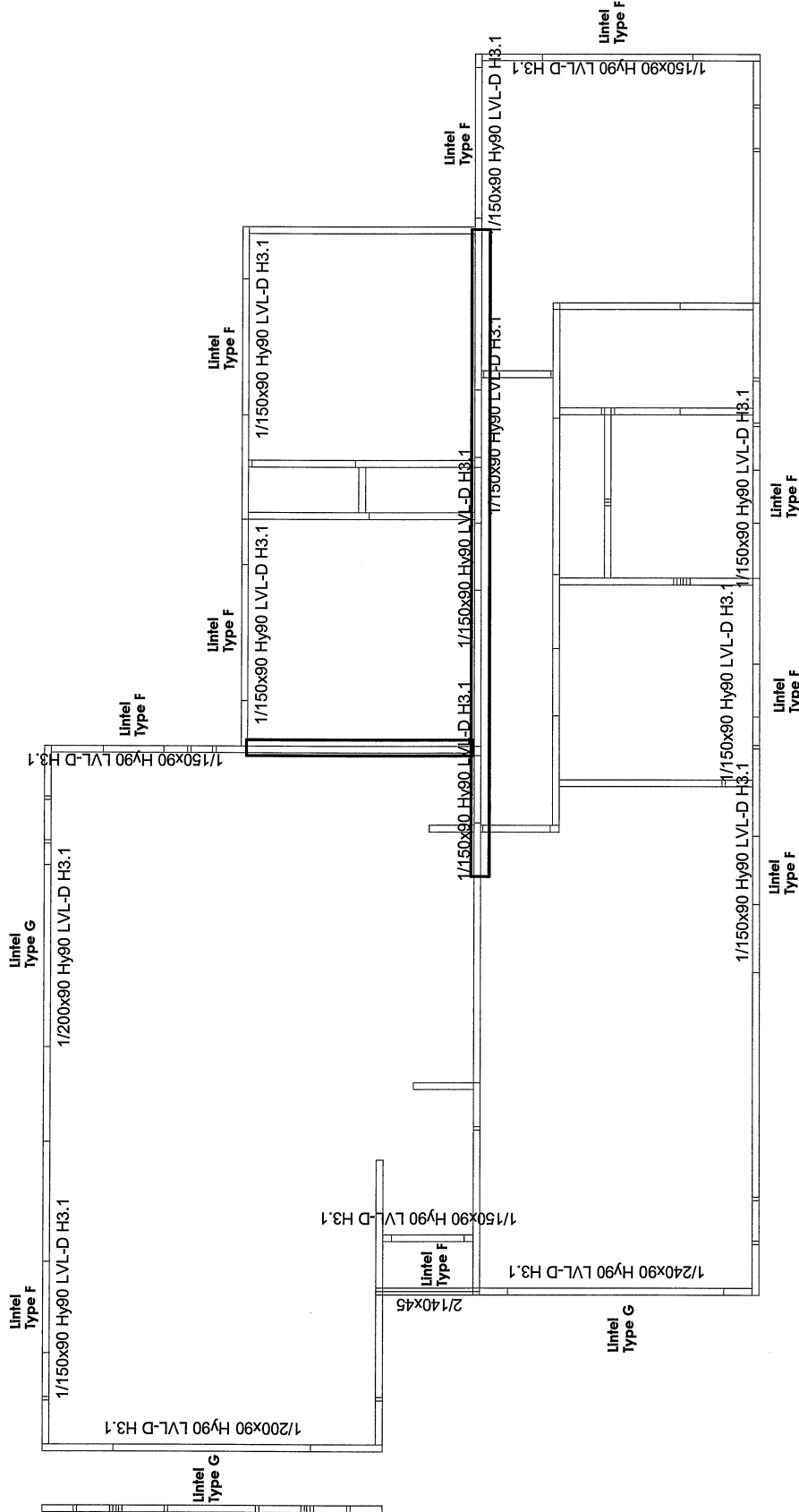
EXTERNAL LOAD BEARING WALLS REQUIRE A TYPE "B" FIXING (4.7Kn) = 2/90x3.15mm PLUS A GANG NAIL STUD STRAP
200mm SHEET BRACE STRAP REQUIRED WHEN STUD STRAP DOESN'T FIX TO THE LINTEL

GABLE END WALLS REQUIRE A TYPE "A" FIXING (0.7Kn) = 2/90x3.15mm

INTERNAL LOAD BEARING WALLS REQUIRE A TYPE "B" FIXING (4.7Kn) = 2/90x3.15mm PLUS 2/CPC40 ON 11Y

LINTELS SIZED USING DESIGN-IT SOFTWARE

REFER TO THE LINTEL FIXING OPTIONS SHEET FOR FIXING DETAILS



200 Maces Road
PO Box 35-193 Christchurch
Ph (03) 389 8200

JOB No **20-0772A**

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Address: Lot 1460 24 Awatere Street
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Pitch: 25.000
Roof Material: Galv Iron .5mm
Soffit Overhang: 600
Wind Area: High
Snow Load: 0.441

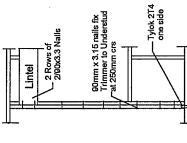
Trusses And Rafters At 900 Centres
Unless Stated Otherwise

DRAWN BY Anton Musson

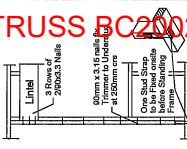
DATE 28 May, 2020 PAGE 1 of 1

Lintel Fixings

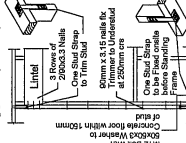
Type E (1.4kN)



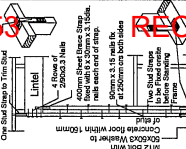
Type F (4.0kN)



Type G (7.5kN)



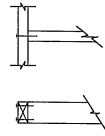
Type H (13.5kN)



Top Plate Fixings

Fixing Type A (0.7kN)

250x3.15 Plain Steel Wirenails
Driven Vertically into Stud



Fixing Type B (4.7kN)



GANG NAIL Stud Strap
Driven Vertically into Stud
AST/20.1-1997

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