

Council Records

These records were obtained in August 2022. NPDC is currently undergoing a review of the property search report content. As such the documentation provided by the NPDC may not be a complete full record. We suggest you get your own professional advice on the provided content and in fact any NPDC files for this property.



- Natural Source
- Treatment Plant
- Pumpstation
- Storage Unit
- Hydrant
- Manhole
- Alert Valve
- Air Valve
- Non-Return Valve
- Standard Valve
- Manifold Valve
- Backflow
- Meter
- Restricted Flow
- Wellup
- Inlet
- Outlet
- Soakhole
- End Point
- Node
- Misc Point
- Trunk
- Rise
- Main
- Lateral
- Open Drain
- Stream
- Overland Flow Path
- Misc Polygon
- Proposed Bund and Ponding Areas
- Storm Water Mgmt Plan

Yellow = Privately Owned

Grey = Out of Service/Closed

Stormwater

Water Supply

Waste Water



695H

BUILDING CONSENT

114045P

PROPERTY ID

110844

114045P



Te Kaunihera-a-Rohe o Ngāmotu
NEW PLYMOUTH
DISTRICT COUNCIL
newplymouthnz.com



Application for Building Consent Amendment

Building Act 2004

AMENDMENT

01 141212

Examples of variations to building consents that are considered minor include:

- Substituting one internal lining for a similar internal lining.
- Substituting the type of timber treatment.
- Minor wall bracing changes.
- A change to a component (eg, fixing bracket).
- A construction change (eg, the framing method around a window when the window is changed to a door).
- Changing a room's layout (eg, the position of fixtures in a bathroom or kitchen).
- Changing one brand of insulation for another.
- Building work described in Schedule 1 of the Building Act 2004.

Insp.

1. Project reference

- 1a. Building consent number
- 1b. Site address *(To be confirmed)*
- 1c. Reason for amendment
☒ Change by owner
☐ Other, please specify
☐ Information request by Council

Office use only (acceptance)	
Date received	13-12-12
Received by	email
File reference	RG-02-10-03
Property ID	
BC granted/issued	Yes / No
Amendment number	AMN12101013

2. Changes covered by this application

2a. Schedule of changes. Two sets of plans must be supplied. Clearly identify all changes to plans and documents with a revision cloud. Include a revision reference on the plan that relates to the changes as provided below.

Old plan number

(affected by change) New plan number Description of change

W-06	W-06a	Changes to Bracing lines P, Q & R

For additional information, please turn over

2b. Building warrant of fitness (Commercial only)

Are there any amendments to systems for which a compliance schedule has been/will be issued?

☐ Yes ☐ No

3. Applicant's declaration

This amendment to the
abovementioned building
consent is made by me, as

☐ the owner of the property

☒ the applicant, authorised by the
owner to make this amendment

Todd Burbidge

Name (print clearly)

Signature

Date

7566049

tburbidge@cavalierhomes.co.nz

Phone

Mobile

Fax

Email

Office use only (Processing)

Team	Approved	Refused	Comments
Planning			
Development Engineer			
Environmental Health			
* Building			
Engineer (specialist)			

Liardet Street, Private Bag 2025, New Plymouth 4340, NZ. Telephone 06-759 6060, Fax 06-759 6072, Email enquiries@npdc.govt.nz, Website www.newplymouthnz.com

AMENDMENT
01 - 141212



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NOTE: All windows centered on room unless dimensioned

GS1N = GIB Standard Plasterboard

BL1-H = GIB Braceline

BLP-H = GIB Braceline / Plywood

BLG-H = GIB Braceline /GIB Standard Plasterboard

1 = lined one side

2 = lined both sides

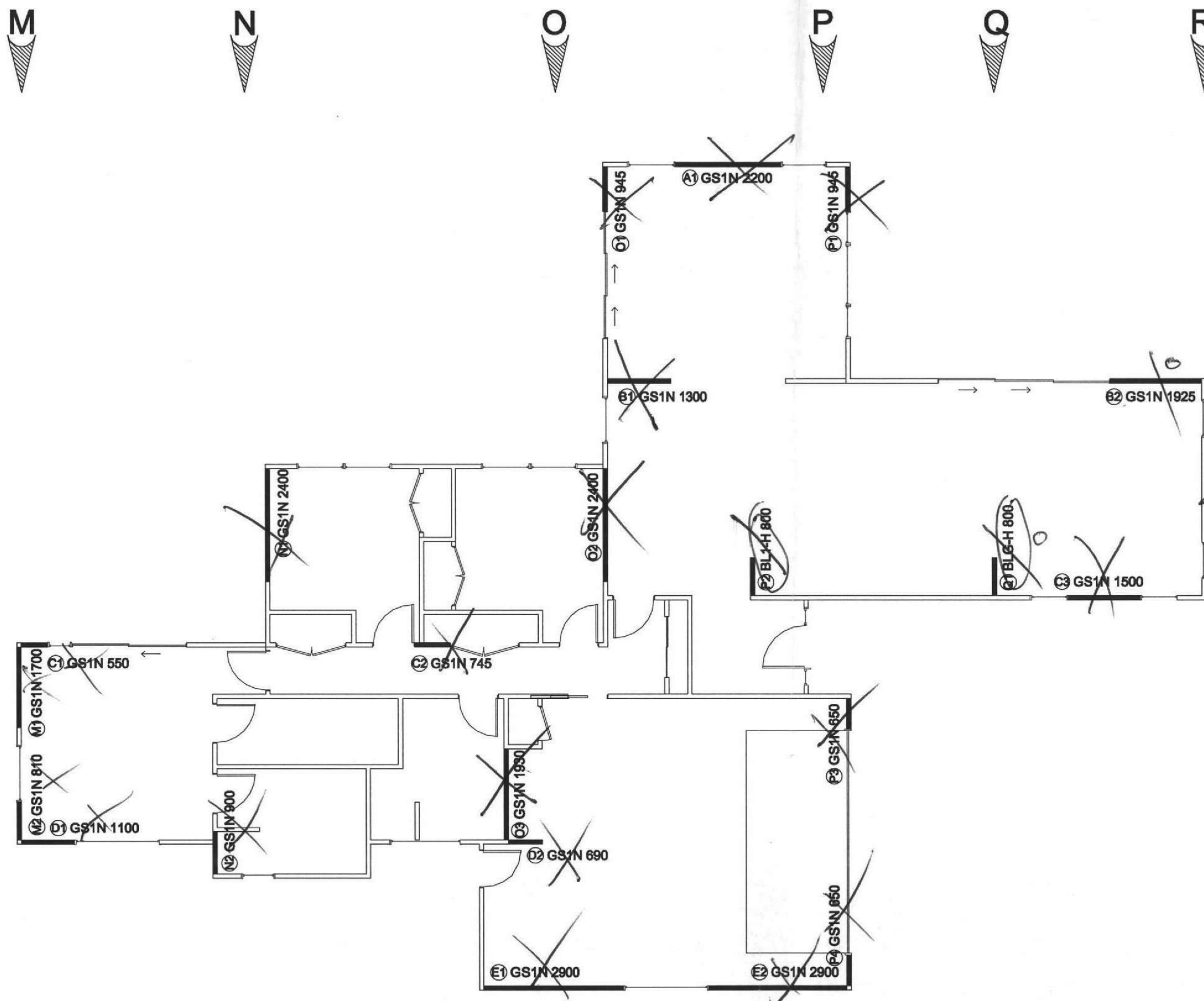
a = angle brace

Panel Hold-downs
GS Bracing Systems do not require hold-downs.
All bracing systems incorporating GIB Braceline require a hold-down at both ends of the bracing element.

AMENDMENTS

NO	DATE	DRAWN	REVISION
1	13/12/12	TAB	Updated Bracing

CLIENT	ADDRESS	SHEET NAME	SCALE	NOTE
MR & MRS COATES	PIPITEA PLACE NEW PLYMOUTH	BRACING PLAN	1:100	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE
		DRAWN	DATE	SHEET
		TAB	13/12/12	W-06a 195



GIB EzyBrace® 2011 Software



Demand Calculation Sheet

single storey

V06/11

Job Details

Name Coates
 Street and Number Pipitea Place
 Lot and DP Number Lot 5
 City/Town/District New Plymouth
 Designer T.A.Burbidge
 Company Name Cavalier Homes
 Date 13/12/2012



Select Lining Option 10 or 13 mm GIB® Plasterboard ▼

Building Specification

Number of storeys	single ▼	
Floor Loading	2kPa ▼	
Foundation Type	slab ▼	
	▼	
	Single Floor	Complete Single Floor Column only
Cladding Weight	heavy ▼	▼
Roof Weight	light ▼	▼
Room in Roof Space	no ▼	▼
Roof Pitch (degrees)	20	
Roof height above eaves (m)	1.8	
Building height to apex (m)	4.3	
Ground to lower floor level (m)	0.3	
Stud Height (m)	2.4	
Building Length (m)	25.7	
Building Width (m)	17.6	
Building Plan Area (m2)	218	

Building Location

Wind Zone	High	Earthquake Zone	Soil Type
Select by Building Consent Authority Map		1 ▼	D&E (deep to very soft) ▼
or Preference	High ▼	Annual exceedance probability	
Wind Region	Preference selected ▼	1/500 (NZS3604:2011 default) ▼	
Lee Zone	Preference selected ▼		
Ground Roughness	Preference selected ▼		
Site Exposure	Preference selected ▼		
Topographic Class	Preference selected ▼		

Bracing Units required for Wind

Demand W (BU)		Walls single
along	slab	782
across	slab	1001

Bracing Units required for Earthquake

Demand along / across E (BU)	
Walls	
single	
slab	875

T.A.Burbidge

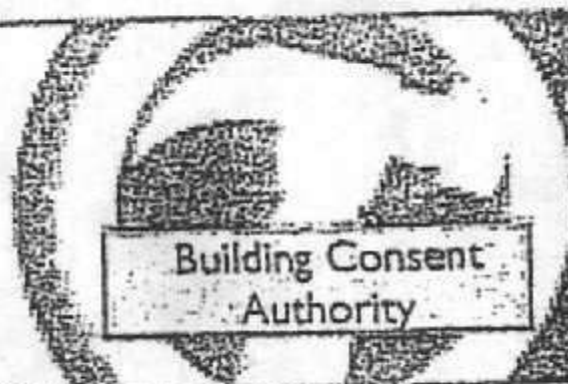
V06/11

[illegible]

					Wind	Earthq.
Totals Achieved	W	124%	EQ	128%	1241	1116
Concrete Slab					OK	OK
Totals Required (from Demand)					1001	875

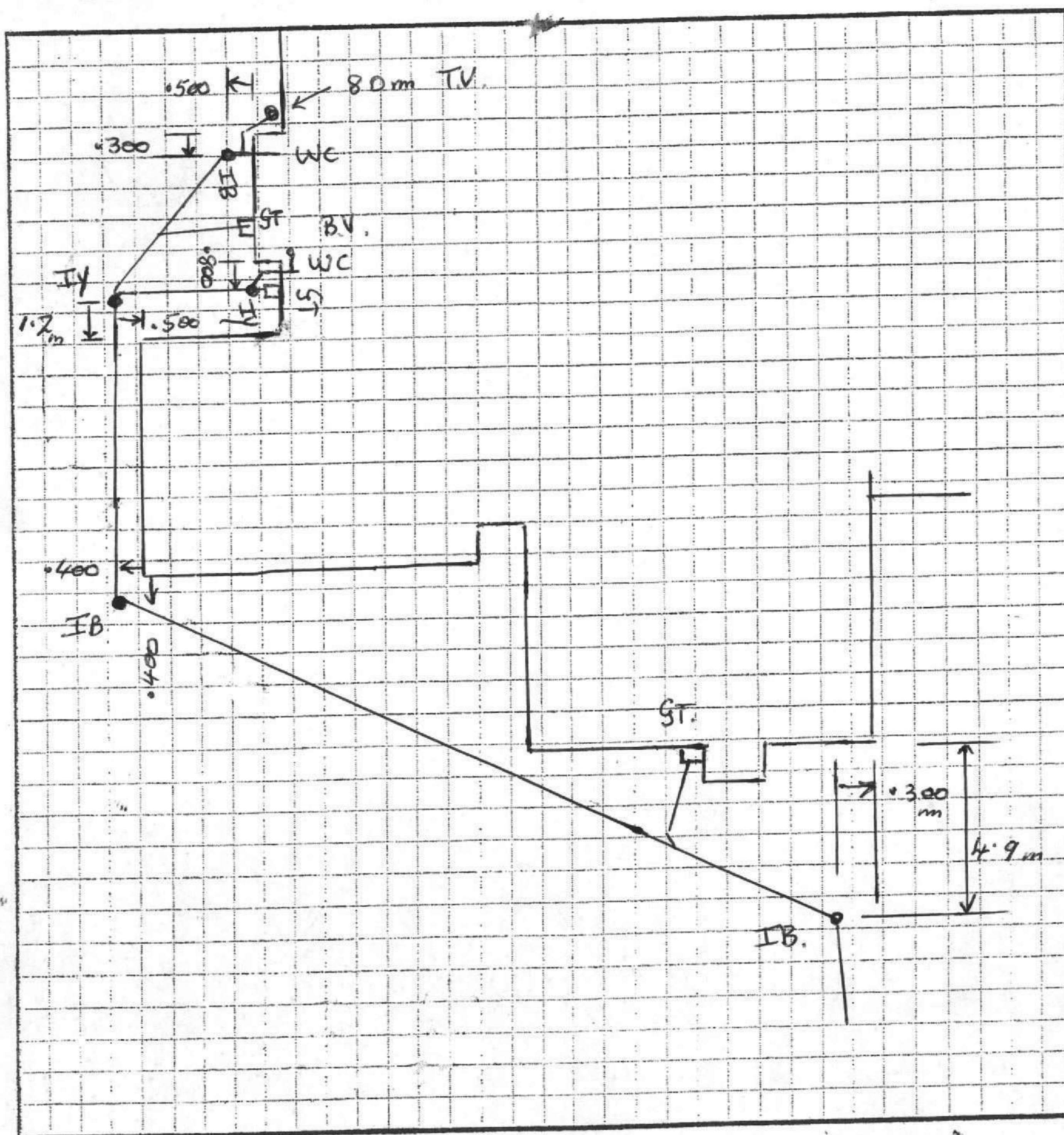


NEW PLYMOUTH
DISTRICT COUNCIL
newplymouthnz.com



AS-BUILT
DRAINAGE PLAN

Building consent BC: ¹²/114045 Address: 8 Pipitea Place
Drainlayer: 5 SAUL Registration No. 04514
Date: 14.2.2013 RID: 110844



Specify system used:

- ☒ G13/AS1
☐ AS/NZS: 3500

Note: Show terminal vent size, location,
and all relevant dimensions to inspection points

Receipt by the NPDC of this record does not imply endorsement of its accuracy.

PROPOSED NEW DWELLING
FOR
MR & MRS COATES
PIPITEA PLACE
NEW PLYMOUTH

CONTENTS

WORKING DRAWINGS

- 01 - SITE PLAN + DRAINAGE
- 02 - FLOOR PLAN
- 03 - ELEVATIONS
- 04 - SLAB + PLUMBING LAYOUT
- 05 - ROOF PLAN
- 06 - BRACING PLAN
- 07 - SECTIONS A-A & B-B
- S100 - CUPOLEX SLAB LAYOUT
- S101 - CUPOLEX SLAB DETAILS

DETAIL SHEETS

- 08 - ROOF EAVES & FOOTING DETAILS
- 09 - LINEA WEATHERBOARD DETAILS
- 10 - METER BOX HEAD/SILL
GARAGE DOOR HEAD/JAMB
- 11 - WINDOW DETAILS - ROCKCOTE
- 12 - WINDOW DETAILS - LINEA WEATHERBOARD
- 13 - WET AREA DETAILS
- 14 - FIXING & ROOF DETAILS
- 15 - ROCKCOTE DETAILS

NPDC Approved
31 OCT 2012



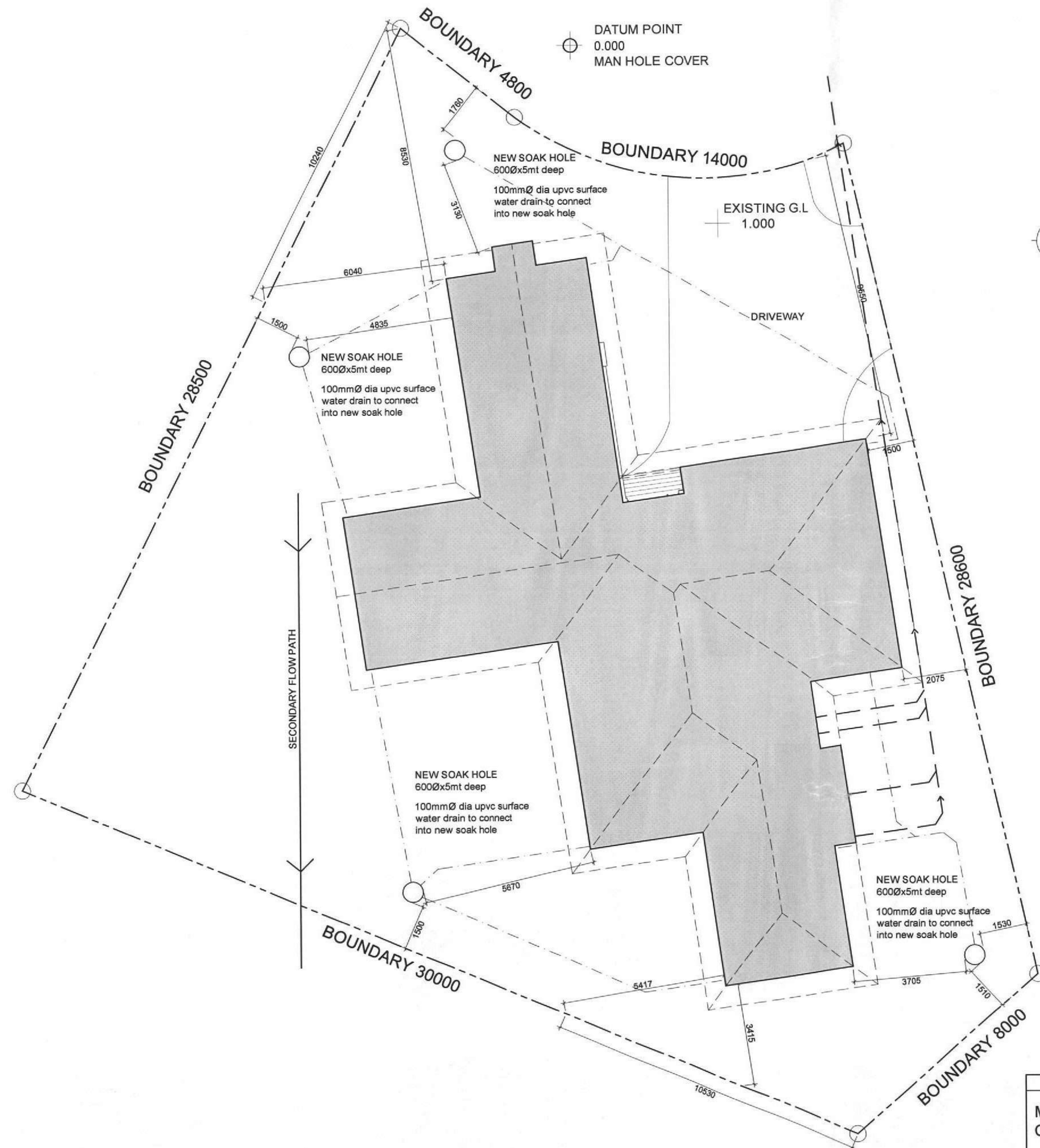
BC12/114045 12-10-12



123 Molesworth Street
NEW PLYMOUTH, TARANAKI
PHONE: (06) 7566 049
FAX: (06) 7566 043
EMAIL: cavalierhomes@xtra.co.nz
WEBSITE: www.cavalierhomes.co.nz

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TOWN PLANNING

ADDRESS PIPITEA PLACE, NEW PLYMOUTH
LOT & DP LOT 5,
ZONE RESIDENTIAL

COVERAGE

AREA OF SITE 747 m²
PROPOSED BUILDING AREA 218 m²
PERCENTAGE BUILDING AREA 29.2%

NZS 3604 - ENVIRONMENTAL ZONE

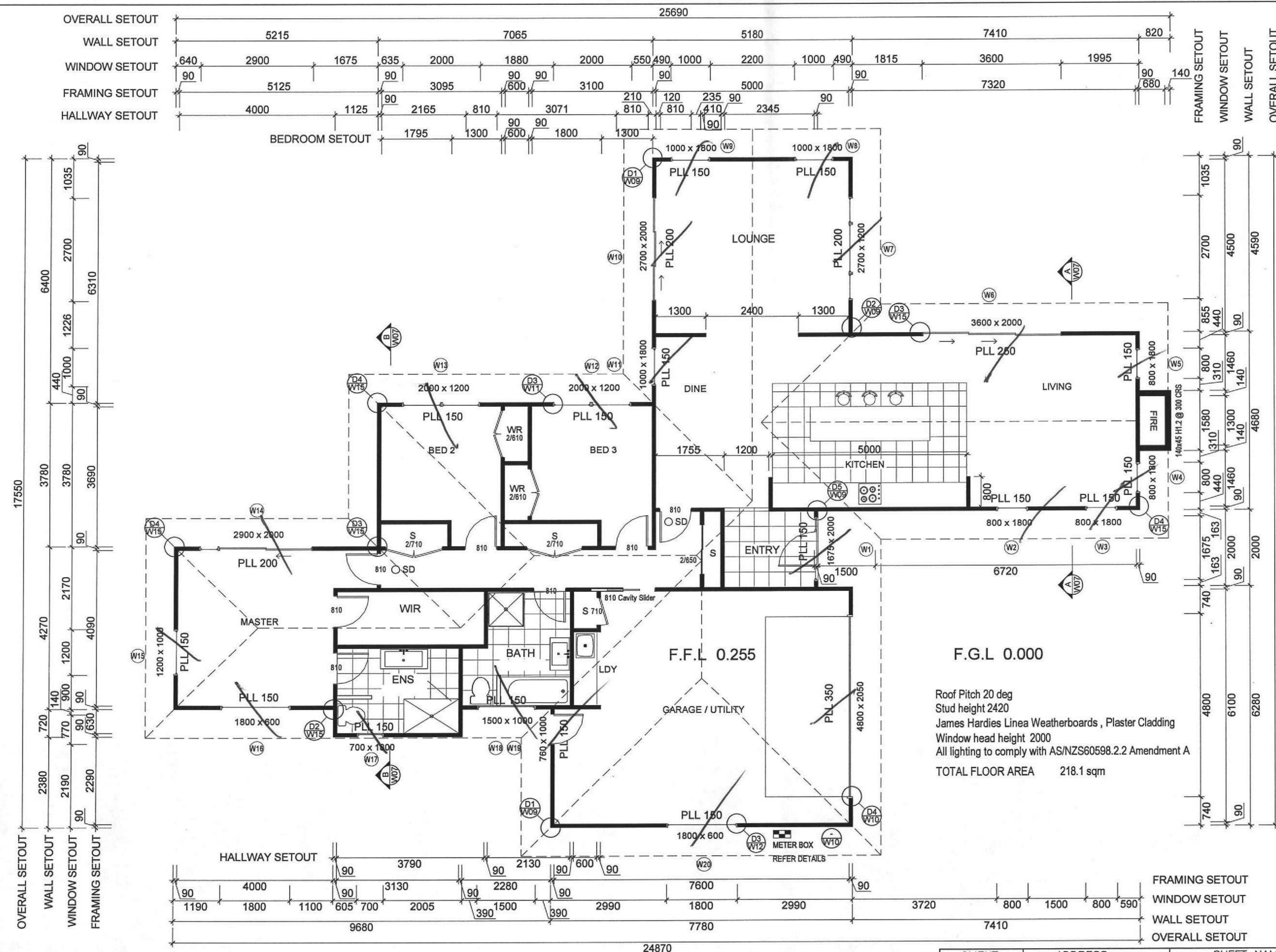
WIND ZONE: HIGH
EARTHQUAKE ZONE: A
DURABILITY ZONE: ZONE ONE

KEY

— — Sewer Drains
— — Stormwater

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CLIENT	ADDRESS	SHEET NAME	SCALE	NOTE
MR & MRS COATES	PIPITEA PLACE NEW PLYMOUTH	SITE PLAN		DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE
		DRAWN	DATE	SHEET
		TAB	23/08/12	W-01
				JOB NUMBER
				195



NPDC Approved
C
A 1 OCT 2012
D
Elevation Orientation

High Wind Zone
○ SD = Smoke detectors

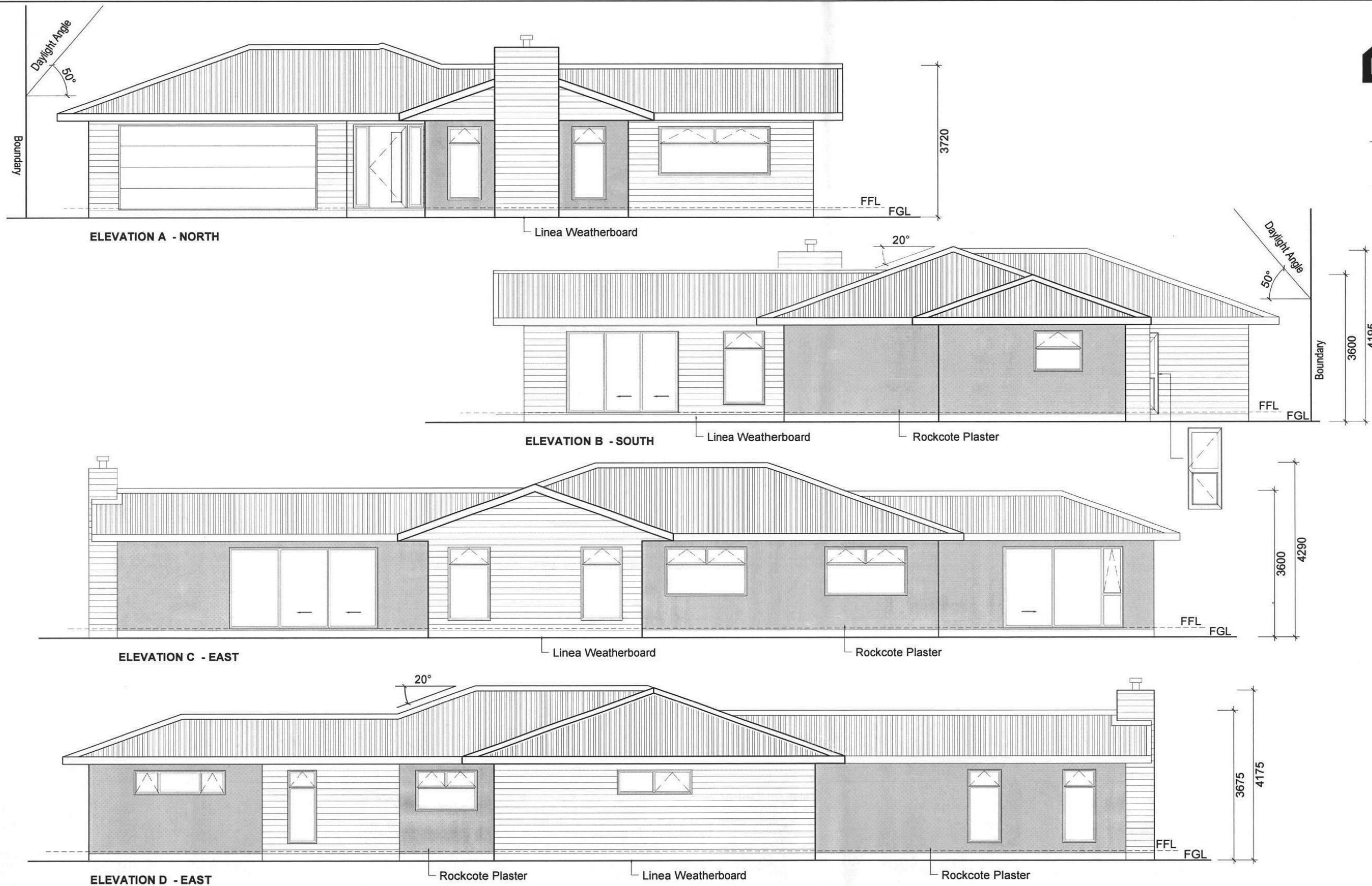
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CLIENT	ADDRESS	SHEET NAME	SCALE	NOTE
MR & MRS COATES	PIPITEA PLACE NEW PLYMOUTH	FLOOR PLAN	1:100	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE
		DRAWN	DATE	SHEET
		TAB	23/08/12	W-02 195

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Building Envelope Risk Matrix - All Elevations								
Risk Factor	Risk Severity							
	LOW	MEDIUM	HIGH	VERY HIGH	Subtotals for each risk factor			
Wind zone	0	0	1	2	1			
Number of storeys	0	0	2	4	0			
Roof/wall intersection design	0	1	3	5	0			
Eaves Width	0	1	2	5	2			
Envelope complexity	0	1	3	6	1			
Deck design	0	2	4	6	0			
Rockcote Plaster system on Cavity Linea Weatherboard on Cavity					Total risk score:	4		

Wind Zone Calculation	
ACTION	VALUE
Wind Region	A
Lee Zone	NO
Ground Roughness	URBAN
Site Exposure	EXPOSED T1
Topographic Class	GENTLE
Wind Zone	HIGH

CLIENT	ADDRESS	SHEET NAME		SCALE	NOTE
MR & MRS COATES	PIPITEA PLACE NEW PLYMOUTH	ELEVATIONS		1:100	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE
		DRAWN	DATE	SHEET	
		TAB	23/08/12	W-03	195



NOTES

STORMWATER DRAINAGE SHALL
COMPLY WITH NZBC E1/AS1

PLUMBING LAYOUT INDICATIVE ONLY.
FINAL DESIGN TO BE COMPLETED ON

ALL DOWNPIPES TO SOAK HOLES

*ALL WASTE POSITIONS ARE
DIMENSIONED TO INSIDE OF WALL
FRAMING. MAKE USUAL ALLOWANCES
FOR EXACT LOCATION OF WASTE
PIPES

ALL SOAK HOLES TO BE A MINIMUM
1.5 MT FROM BOUNDARY & 3.0 MT
FROM HOUSE

KEY

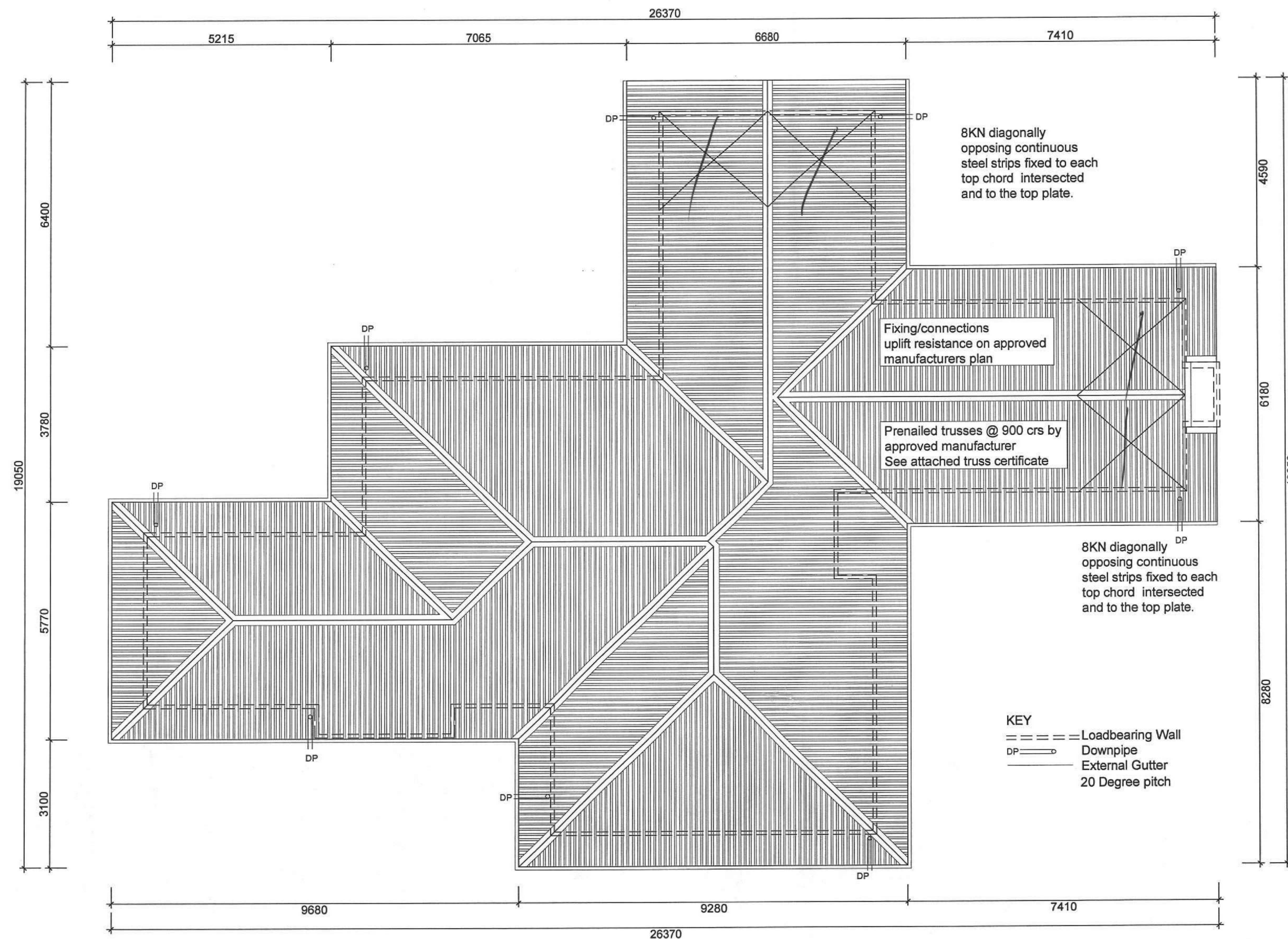
- | | |
|------------|----------------------------|
| — — | SEWER DRAINS |
| — — | SEWER WASTE |
| □ | GULLY TRAP |
| - . - . - | STORMWATER DRAINS |
| DP — — — | DOWN PIPE 80mm |
| = = = | LOADBEARING WALLS |
| [REDACTED] | INTERNAL LOADBEARING WALLS |
| T | HOSE TRAP |
| HT | INSPECTION JUNCTION |
| IJ | INSPECTION BEND |
| IB | AIR ADMITTANCE VALVE |
| AAV | |

ON JOINT
ON BEND
TANCE VALVE

CLIENT	ADDRESS	SHEET NAME		SCALE	NOTE
MR & MRS COATES	PIPITEA PLACE NEW PLYMOUTH	SLAB & PLUMBING PLAN		1:100	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE
		DRAWN	DATE	SHEET	JOB NUMBER
		TAB	23/08/12	W-04	195

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CLIENT	ADDRESS	SHEET NAME		SCALE	NOTE
		ROOF PLAN		1:100	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE
		DRAWN	DATE	SHEET	JOB NUMBER
MR & MRS COATES	PIPITEA PLACE NEW PLYMOUTH	TAB	23/08/12	W-05	195

ROOF CONSTRUCTION

20° ROOF PITCH
COLORSTEEL ROOF CLADDING ON
ROOFING UNDERLAY ON PRENAILED
TRUSSES @ 900 crs BY AN APPROVED
TRUSS MANUFACTURER
35mm GIB RONDO BATTENS @ 600 crs
13mm GIB CEILING LINING
R3.2 CEILING INSULATION, EXCLUDING
GARAGE

WALL CONSTRUCTION

90x45 H1.2 SG8 FRAMING, STUDS @
600 crs. 140x45 @ 300 crs TO CHIMNEY
R2.2 WALL INSULATION, EXCLUDING
GARAGE
WALL ADJOINING GARAGE/HOUSE TO BE
INSULATED
10mm STANDARD GIB WALL LINING
10mm GIB AQUALINE TO WET AREAS
10mm BRACELINE AS PER BRACING PLAN
ROCKCOTE PLASTER EXTERIOR CLADDING
JAMES HARDIES
WEATHERBOARD ON CAVITY

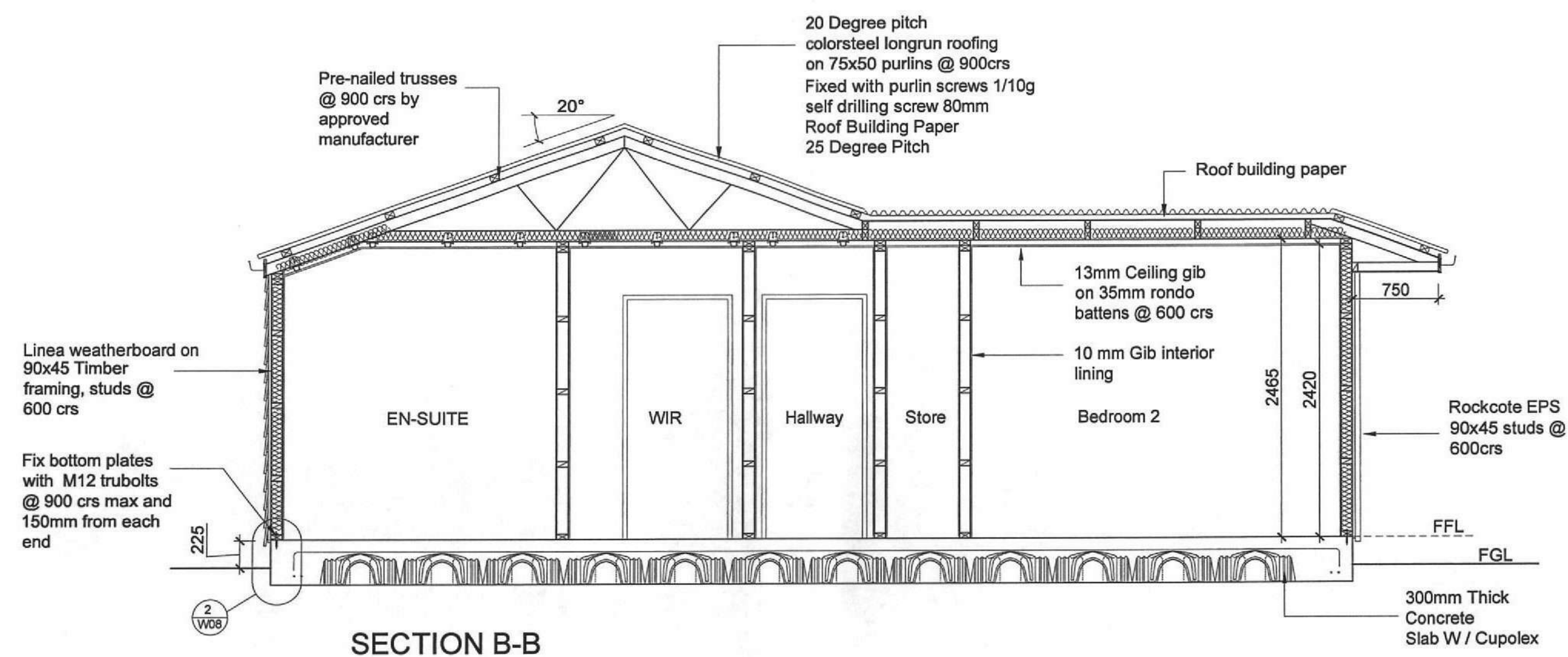
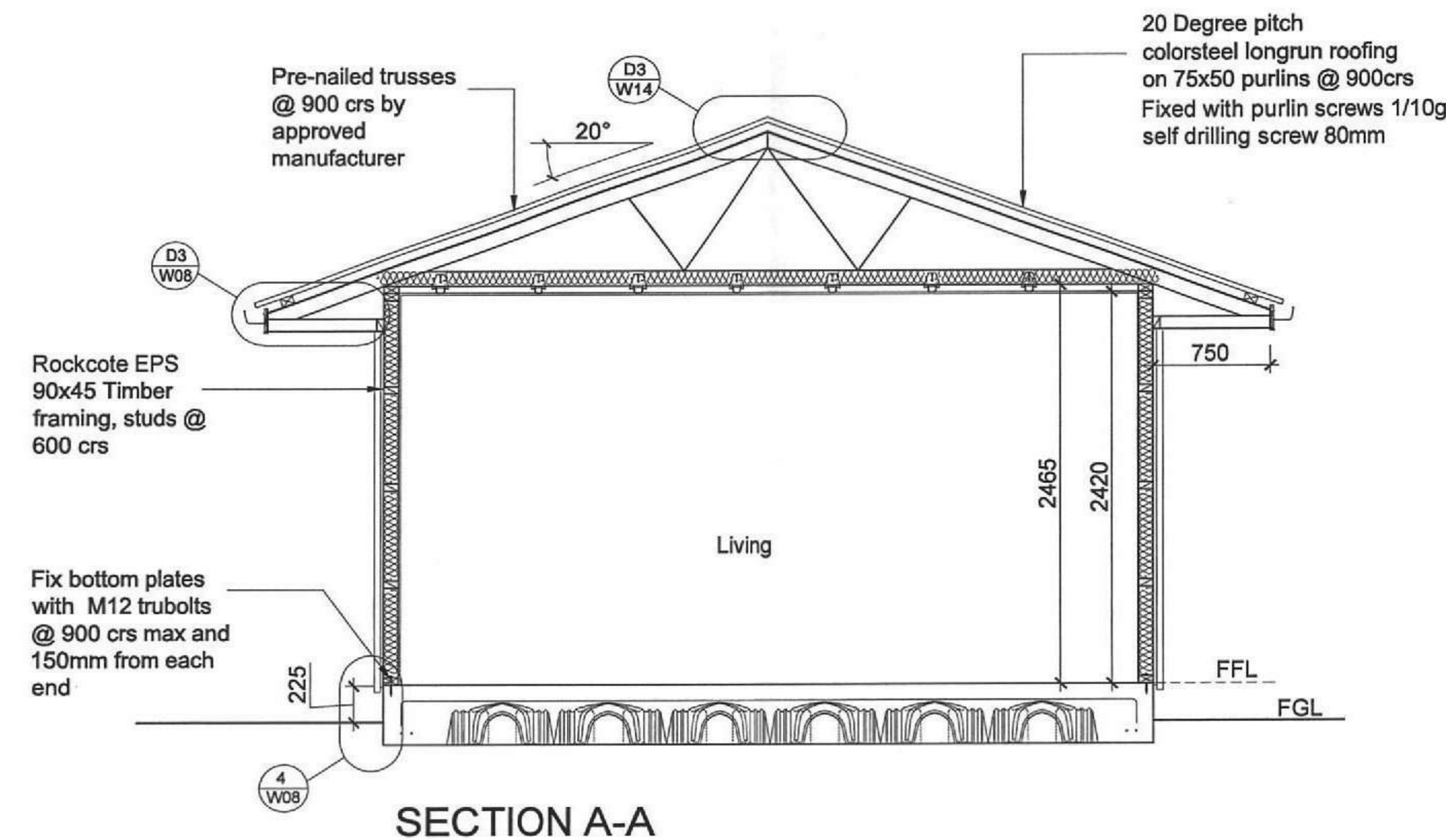
FLOOR CONSTRUCTION

CUPOLEX FLOORING WITH 20MPa
CONCRETE FLOOR WITH 500E
MESH PLACED 30mm FROM TOP OF
FLOOR DPM 20mm SANDBLINDING

GLAZING

ALL GLAZING TO COMPLY WITH
NZS 4223
GLAZING IN BATHROOM/ENSUITE
TO BE SAFETY GRADE

HIGH Wind Zone



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CLIENT	ADDRESS	SHEET NAME		SCALE	NOTE
MR & MRS COATES	PIPI TEA PLACE NEW PLYMOUTH	SECTIONS AA, BB		1:50	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE.
		DRAWN	DATE	SHEET	JOB NUMBER
		TAB	23/08/12	W-07	195

NOTES:

Allowable bearing pressure = 100kPa
Dependable bearing pressure = 150kPa

Refer to Architects Drawings for all
setout dimensions, recesses and
service positions

Internal slab thickenings and pad
foundations to be accurately set
out using the Architects drawings
DO NOT SCALE FROM THIS DRAWING

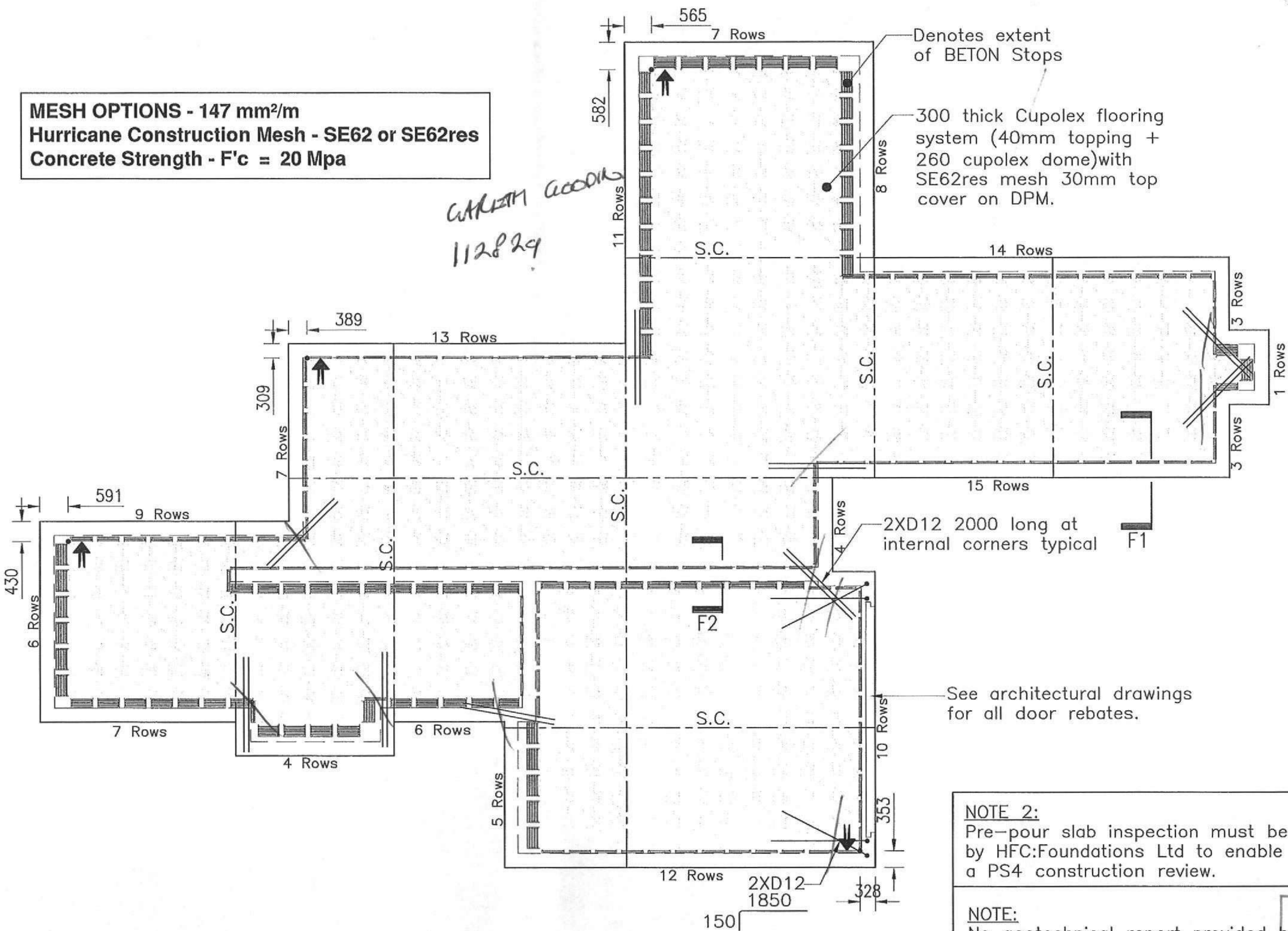
Cover:
Cast against DPM = 50mm
Within Ribs: Side cover = 40mm

Surface Finishes: (NZS 3144:1987)
Concealed work = F1
Exposed edges of foundation = F5
Floor slab = U3

Reinforcing:

SYMBOL	TYPE
R	Structural grade plain bars to NZS 3679.1 (300 MPa)
D	Deformed bars grade 300E to NZS 4671 (300 MPa)
XR	Plain bars grade 500E to NZS 4671 (500 MPa)
XD	Deformed bars grade 500E to NZS 4671 (500 MPa)

MESH OPTIONS - 147 mm²/m
Hurricane Construction Mesh - SE62 or SE62res
Concrete Strength - F'c = 20 Mpa



Start Dome
Left to Right Then Top to Bottom

QUANTITIES :
Total Floor area = 215 m²
Total Perimeters = 89.72 m
No. off Cupolex H26 = 539
No. Beton stops = 204
No. Spacer = 120
Concrete volume = 31.93 m³
(Excluding piles, brick veneer rebates
including 15% site tolerance)

NOTE 2:
Pre-pour slab inspection must be carried out
by HFC:Foundations Ltd to enable the issue of
a PS4 construction review.

NOTE:
No geotechnical report provided by client.
Therefore 'good ground' assumed in accordance with NZ3604:2011
"Moderately 1" ground conditions with a
characteristic ground movement $y_s < 25\text{mm}$
used. If $y_s > 25\text{mm}$ encountered on site, or any
other geotechnical hazards exist for this site
then HFC: Foundations Ltd should be contacted
to redesign the slab accordingly.

NOTE 3:
Founding conditions/cut building platform to be
inspected by HFC:Foundation Ltd and 100kPa
minimum allowable bearing capacity to be
confirmed.

HFC : FOUNDATIONS LTD
CIVIL & STRUCTURAL ENGINEERS
LEVEL 3, 19 MORGAN STREET PO BOX 109 109
NEWMARKET AUCKLAND NEW ZEALAND
T: 09 367 1070 F: 09 367 1071 E: DESIGN@HFC.CO.NZ

PROJECT:
LOT 5, PIPITEA PLACE
NEW PLYMOUTH

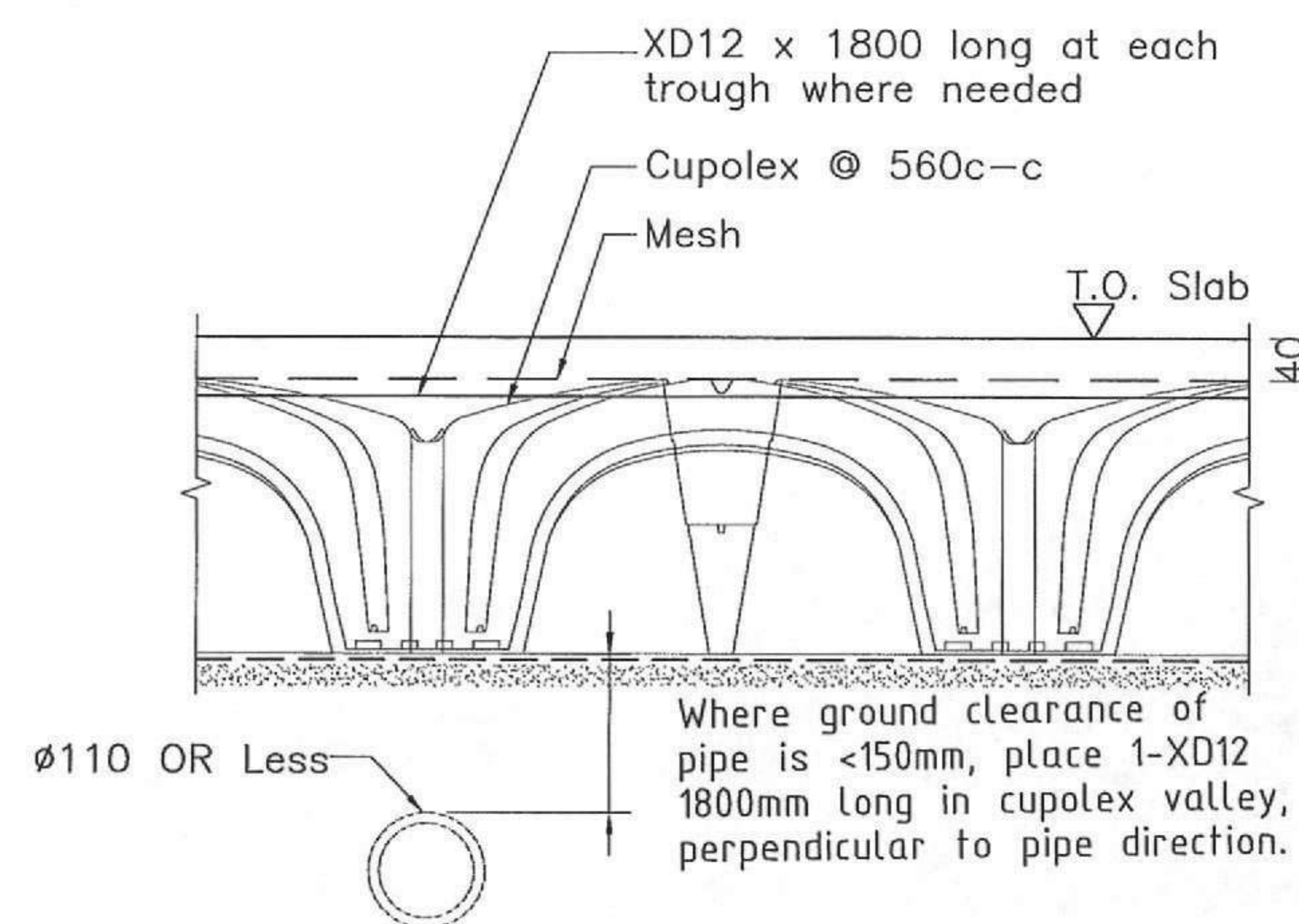
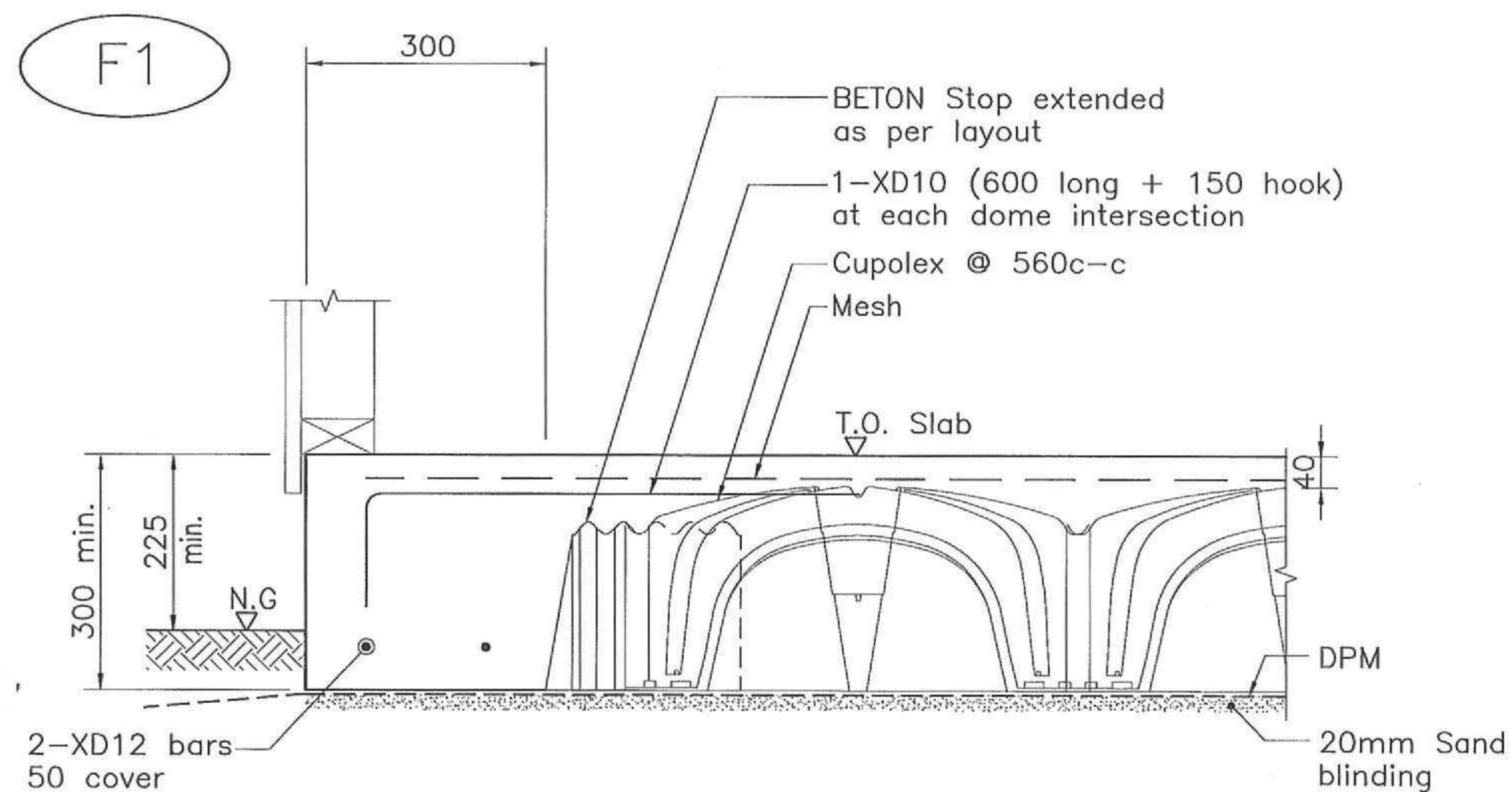
DRAWING TITLE:
CUPOLEX SLAB
FOUNDATION LAYOUT

JOB No:
W12419
DRAWN:
K.P.

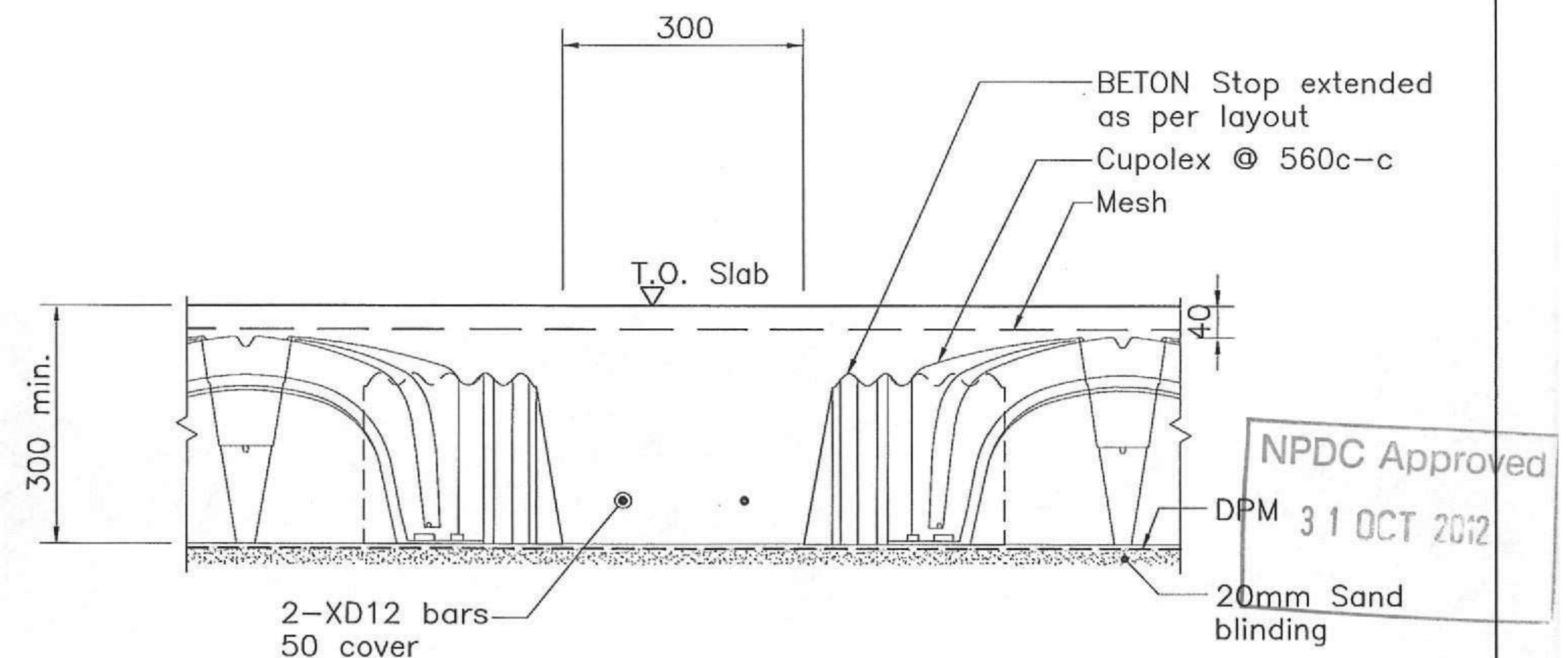
SHEET:
S100
DATE:
28/08/12

REVISION:
0
SCALE:
1:100

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STANDARD DRAINAGE DETAIL



HFC : FOUNDATIONS LTD
CIVIL & STRUCTURAL ENGINEERS
 LEVEL 3, 19 MORGAN STREET PO BOX 109 106
 NEWMARKET AUCKLAND NEW ZEALAND
 T: 09 367 1070 F: 09 367 1071 E: DESIGN@HFC.CO.NZ

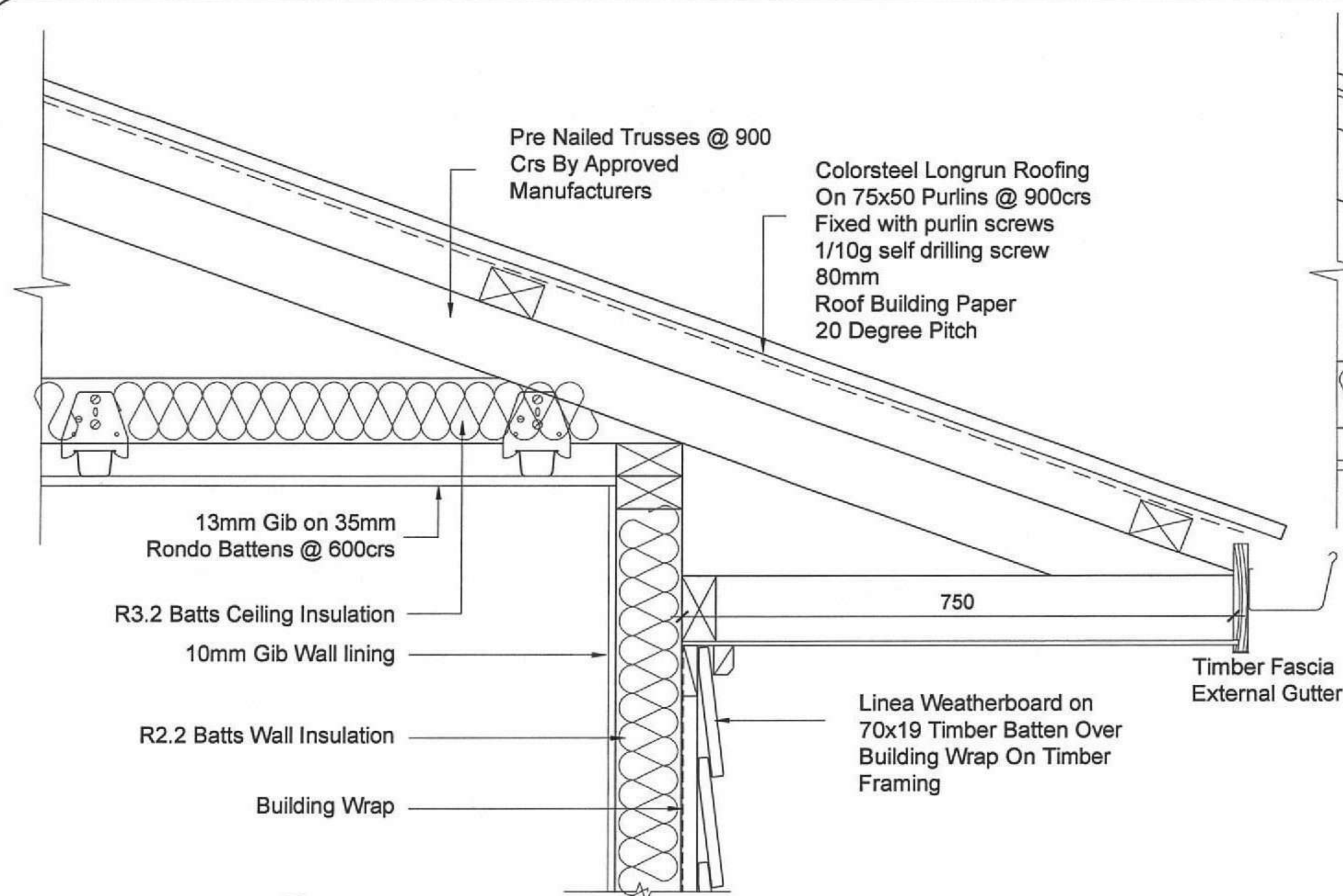
PROJECT:
PIPI TEA PLACE
NEW PLYMOUTH

DRAWING TITLE:
CUPOLEX SLAB
FOUNDATION DETAILS

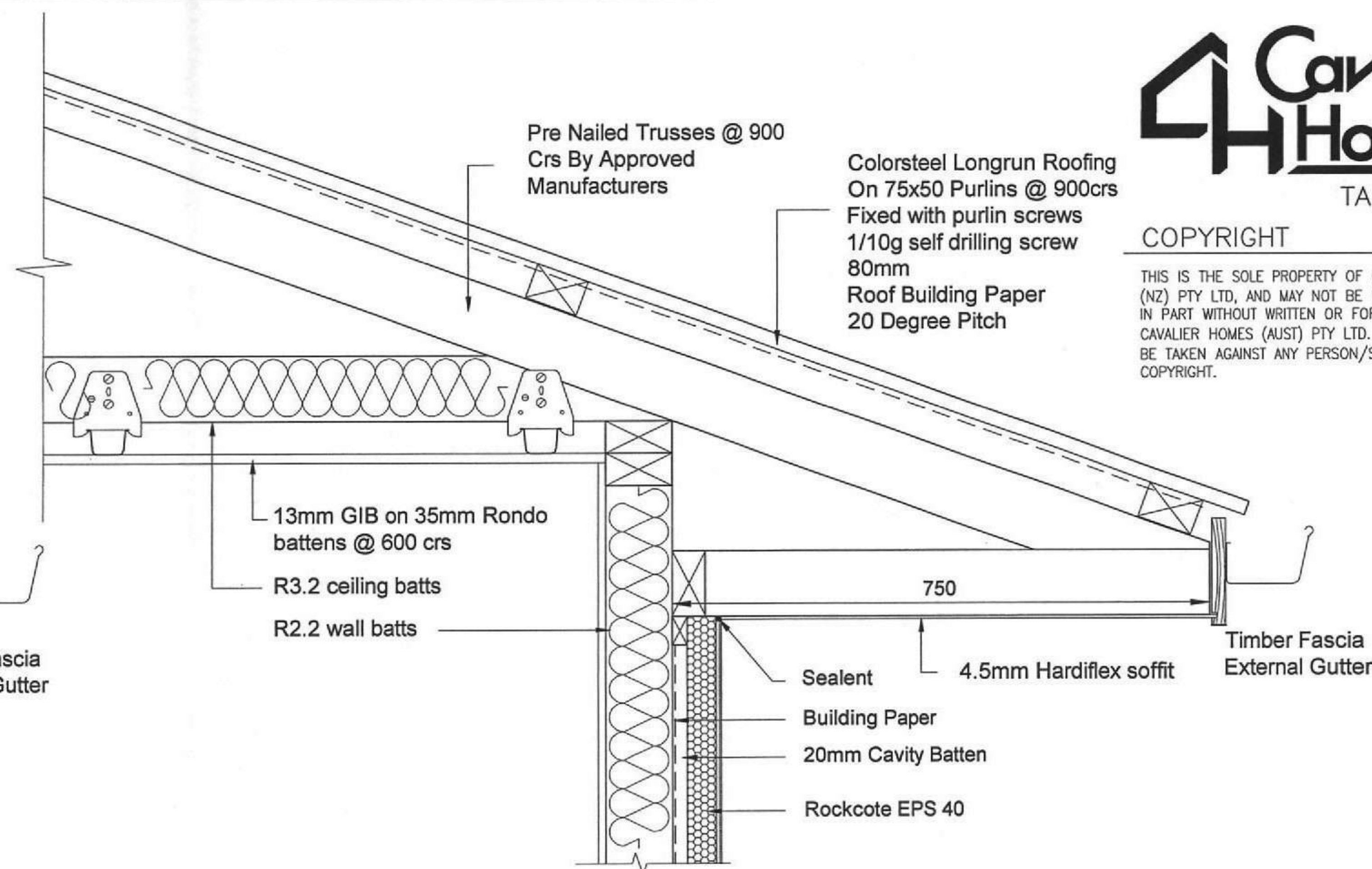
JOB No:
W12419
 DRAWN:
K.P.

SHEET:
S101
 DATE:
28/08/12

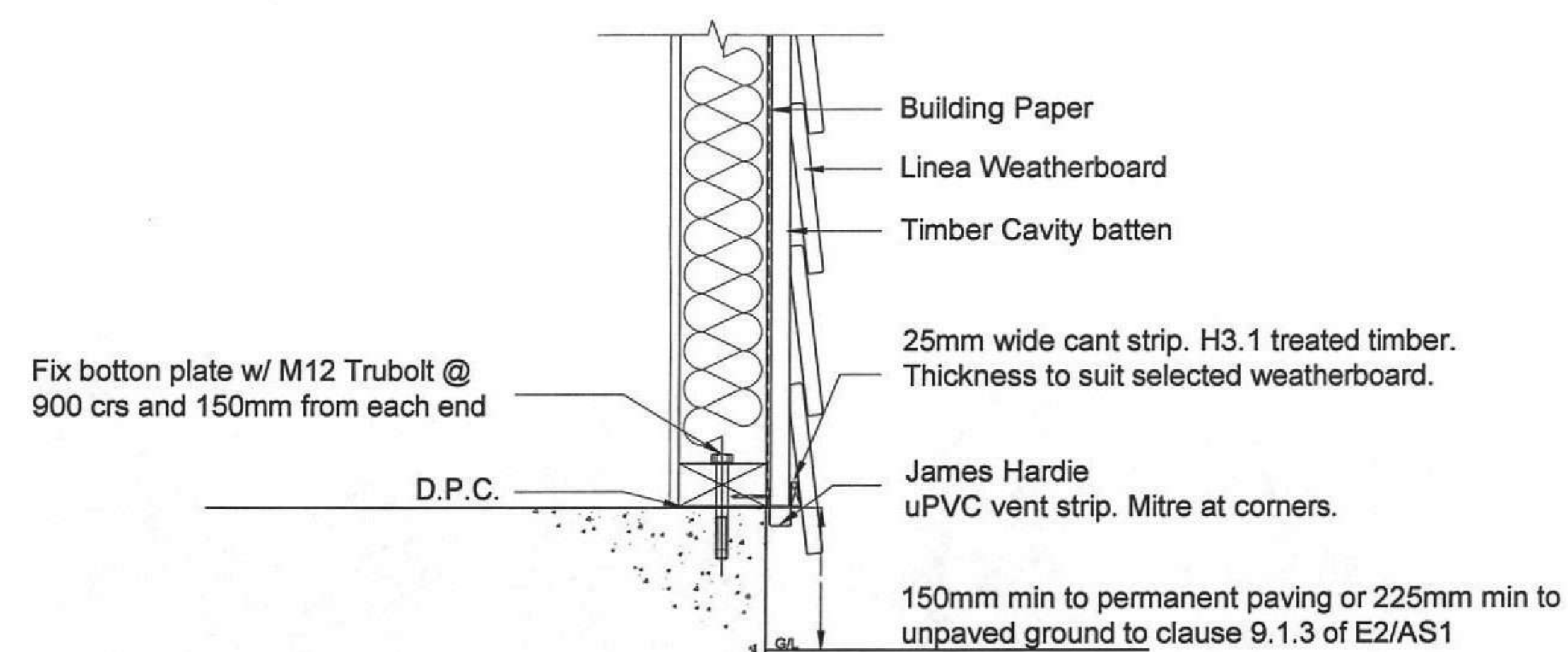
REVISION:
0
 SCALE:
1:10



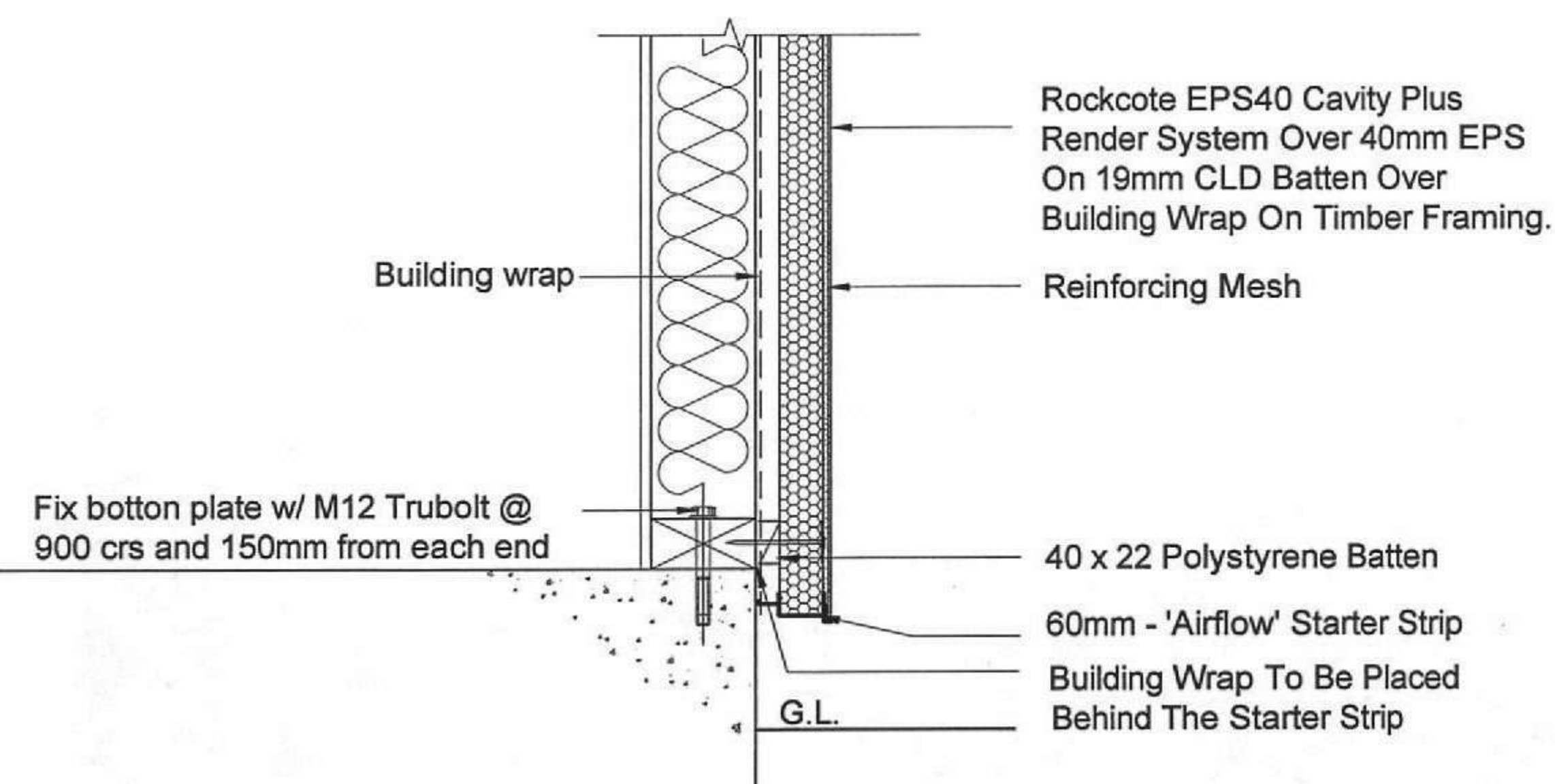
D1
W-08 **EAVES DETAIL
LINEA WEATHERBOARD**



D3
W-08 **EAVES DETAIL
BRICK VENEER**



D2
W-08 **CONCRETE FOOTING - LINEA**



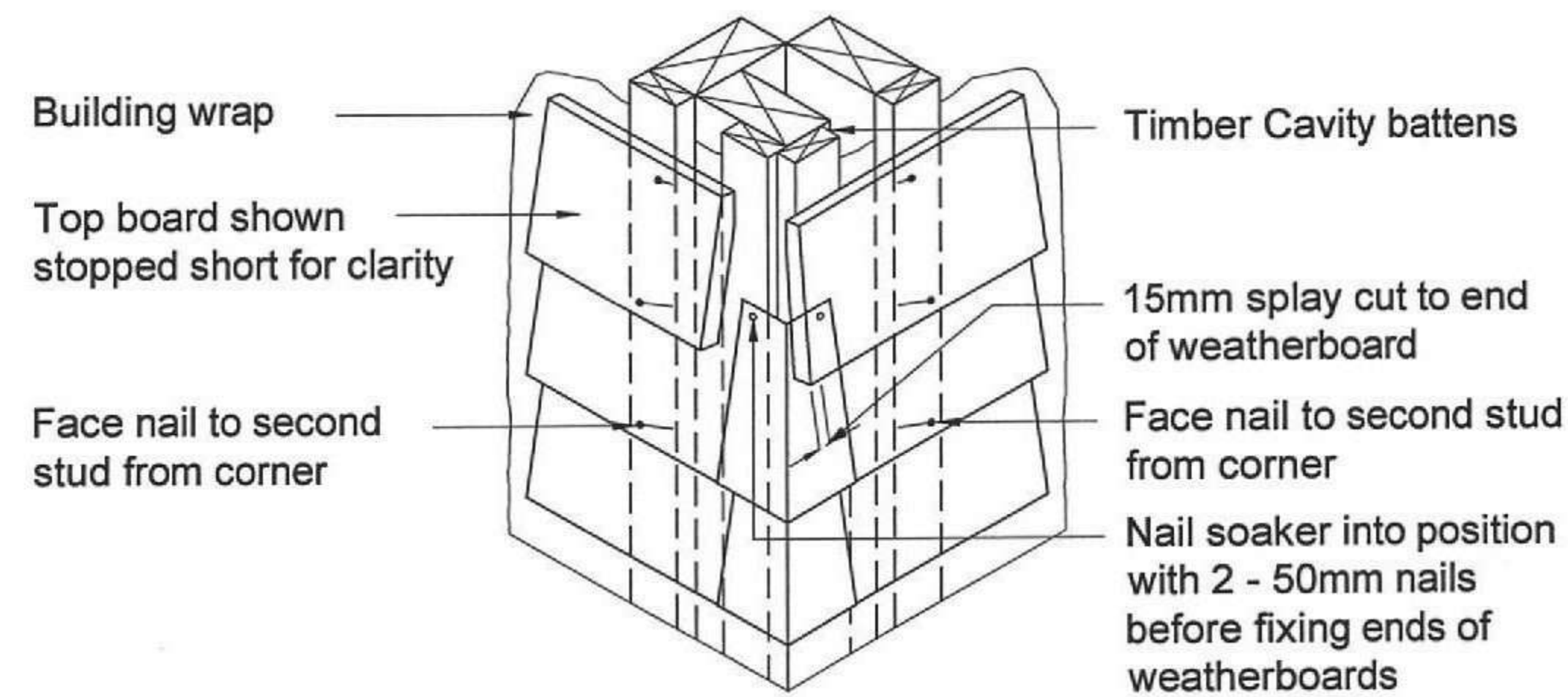
D4
W-08 **TYPICAL BRICK WALL SECTION**

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31 OCT 2012

CLIENT	ADDRESS	SHEET NAME		SCALE	NOTE
MR & MRS COATES	PIPITEA PLACE NEW PLYMOUTH	FOOTING / EAVES DETAILS		1:10	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE
		DRAWN	DATE	SHEET	JOB NUMBER
		TAB	23/08/12	W-08	195

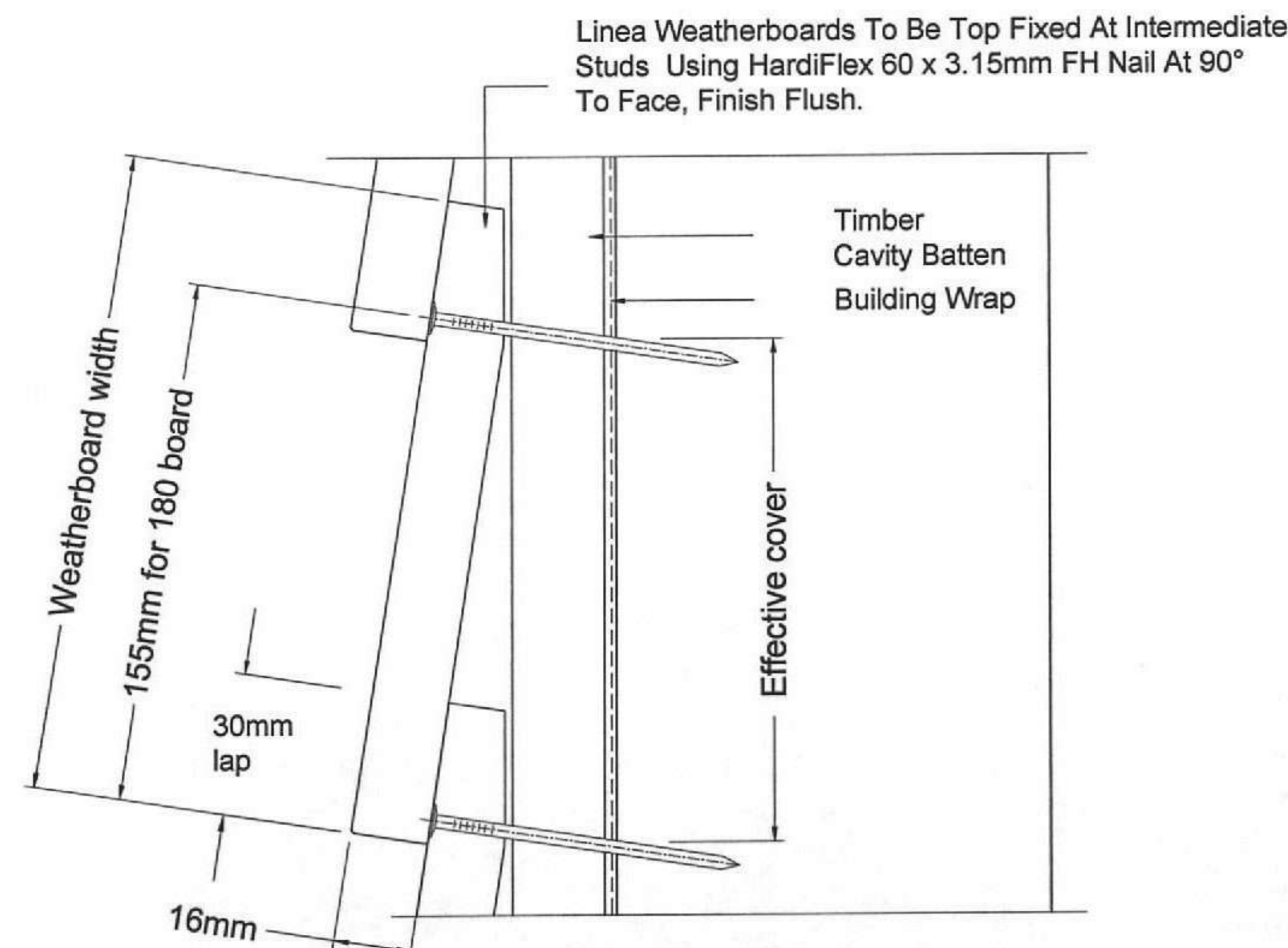
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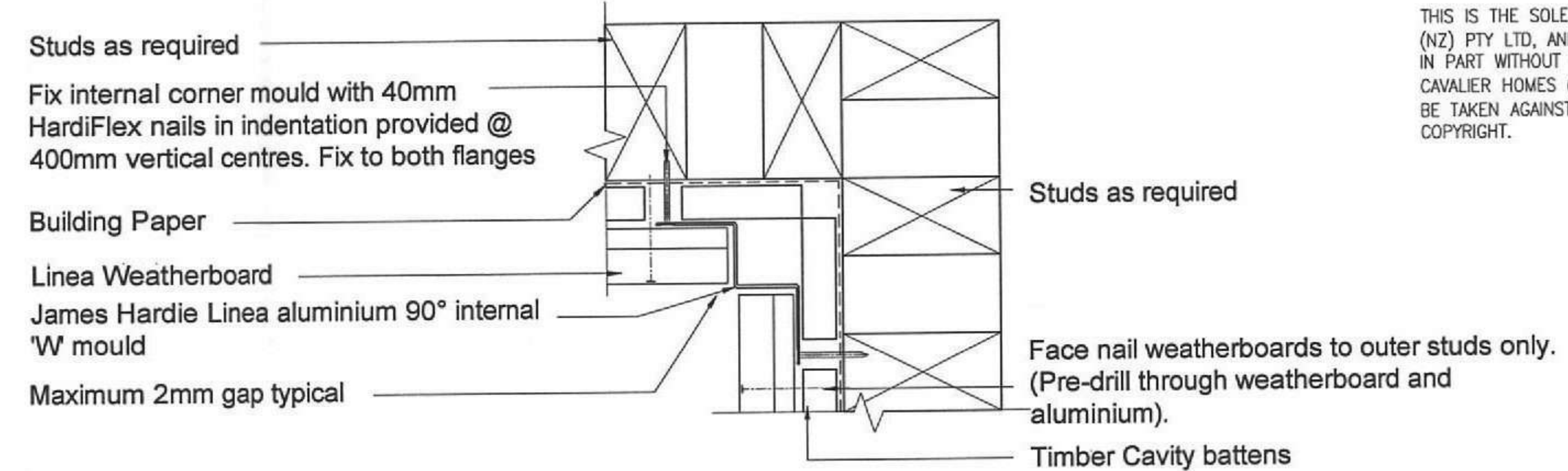
Soaker material	Nail material
Copper	Copper or phosphor bronze
Aluminium	Hot dip galvanised
Stainless steel	Stainless steel

D1
W-09 **CAVITY EXTERNAL CORNER SOAKER**
1:10

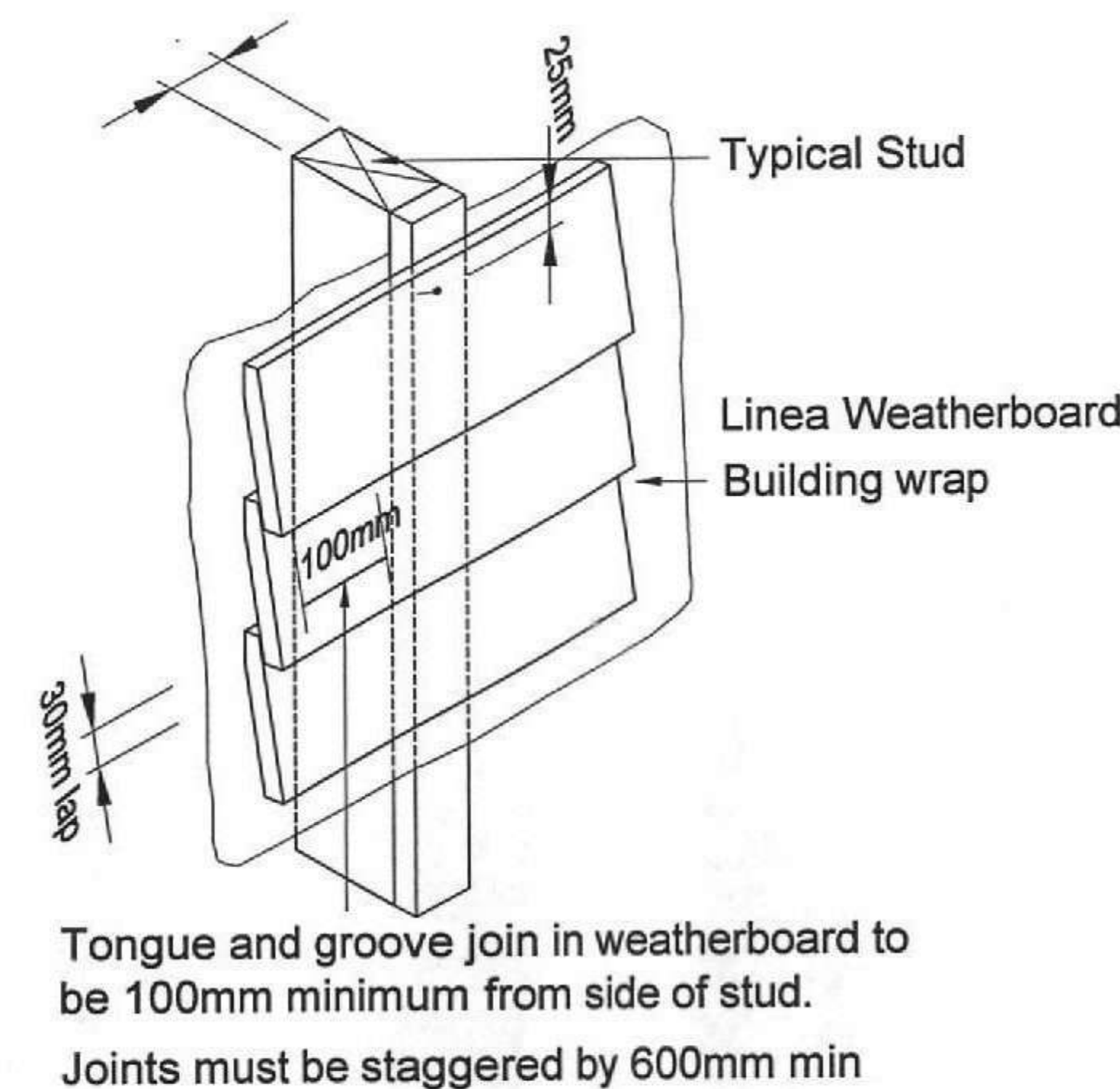


D3
W-09 **CONCEALED NAILING - LINEA**
1:2

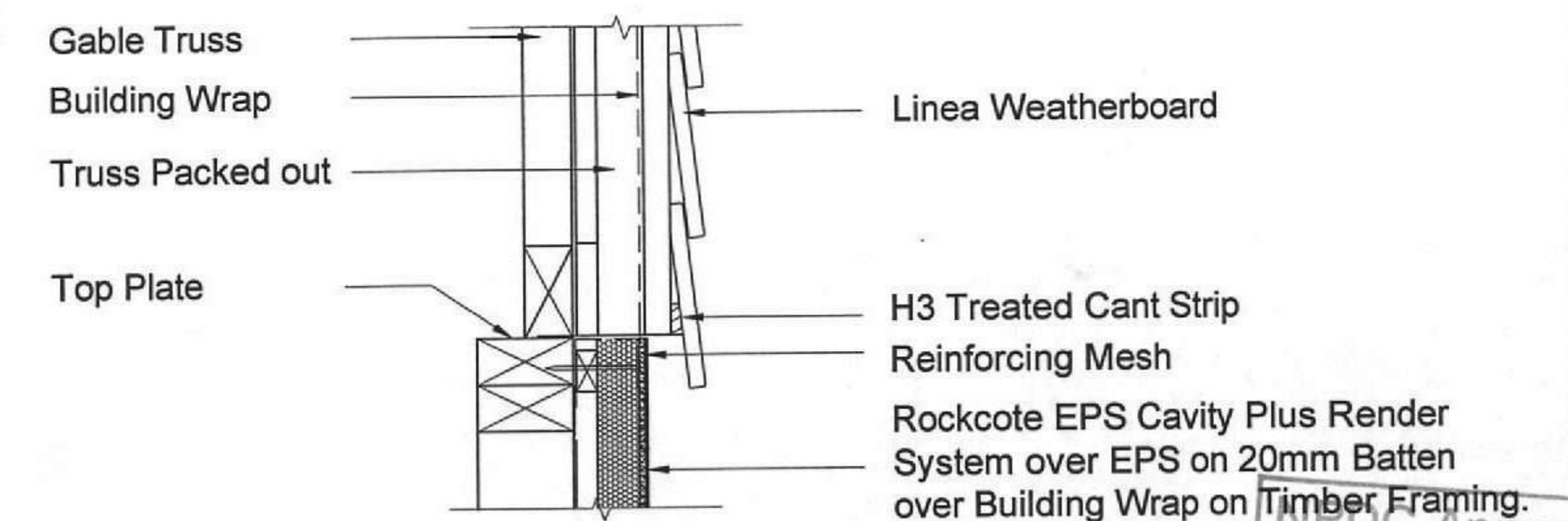
Linea Weatherboards to be face fixed at corners & down window and door openings using 75 x 3.15mm jolt head nails at 90° to face, punch 2mm below surface and fill.



D2
W-09 **INTERNAL CORNER - 90° ALUMINIUM 'W' MOULD CORNER**
1:5



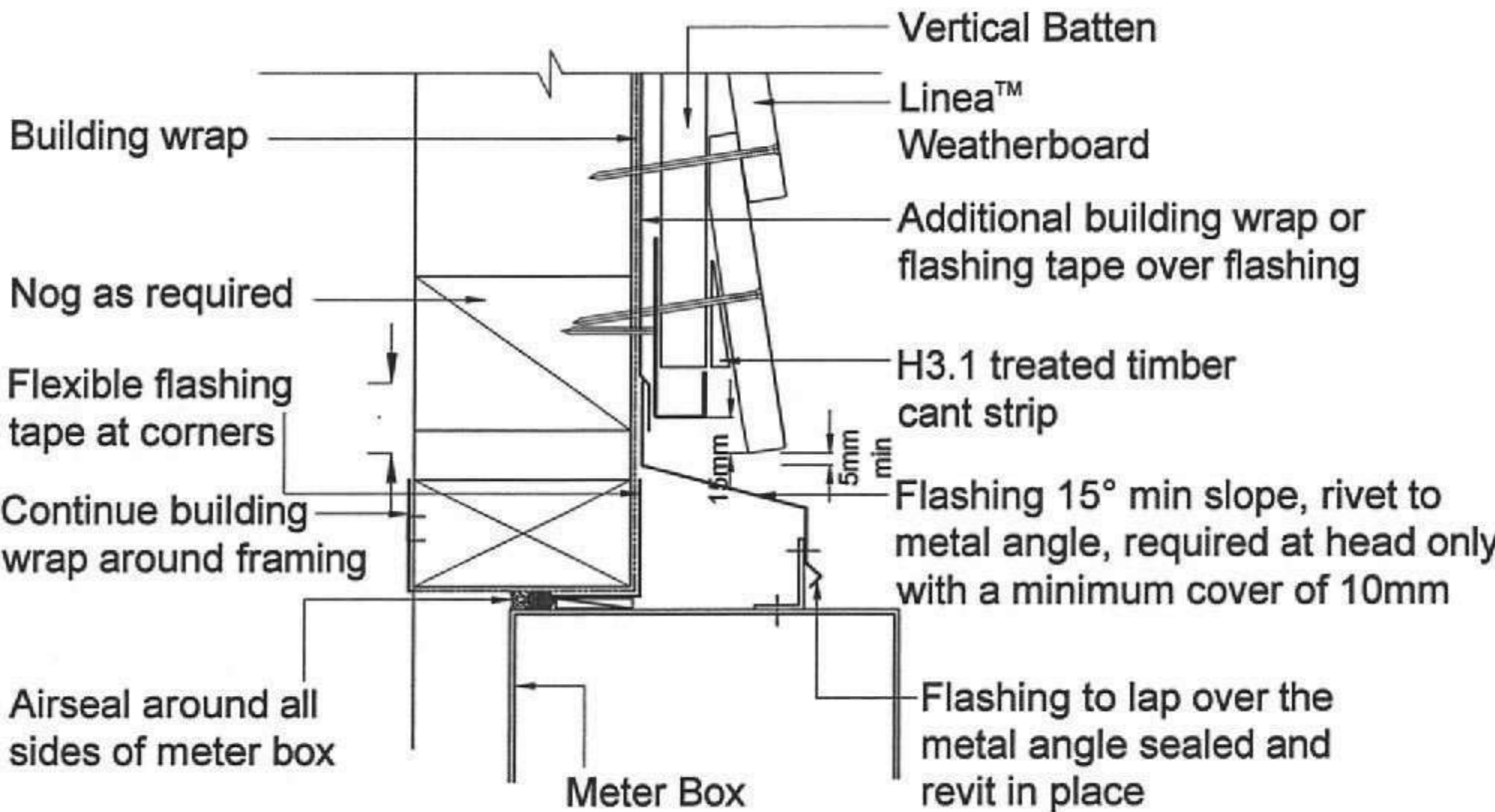
D4
W-09 **JOINTING OFF STUD**
1:10



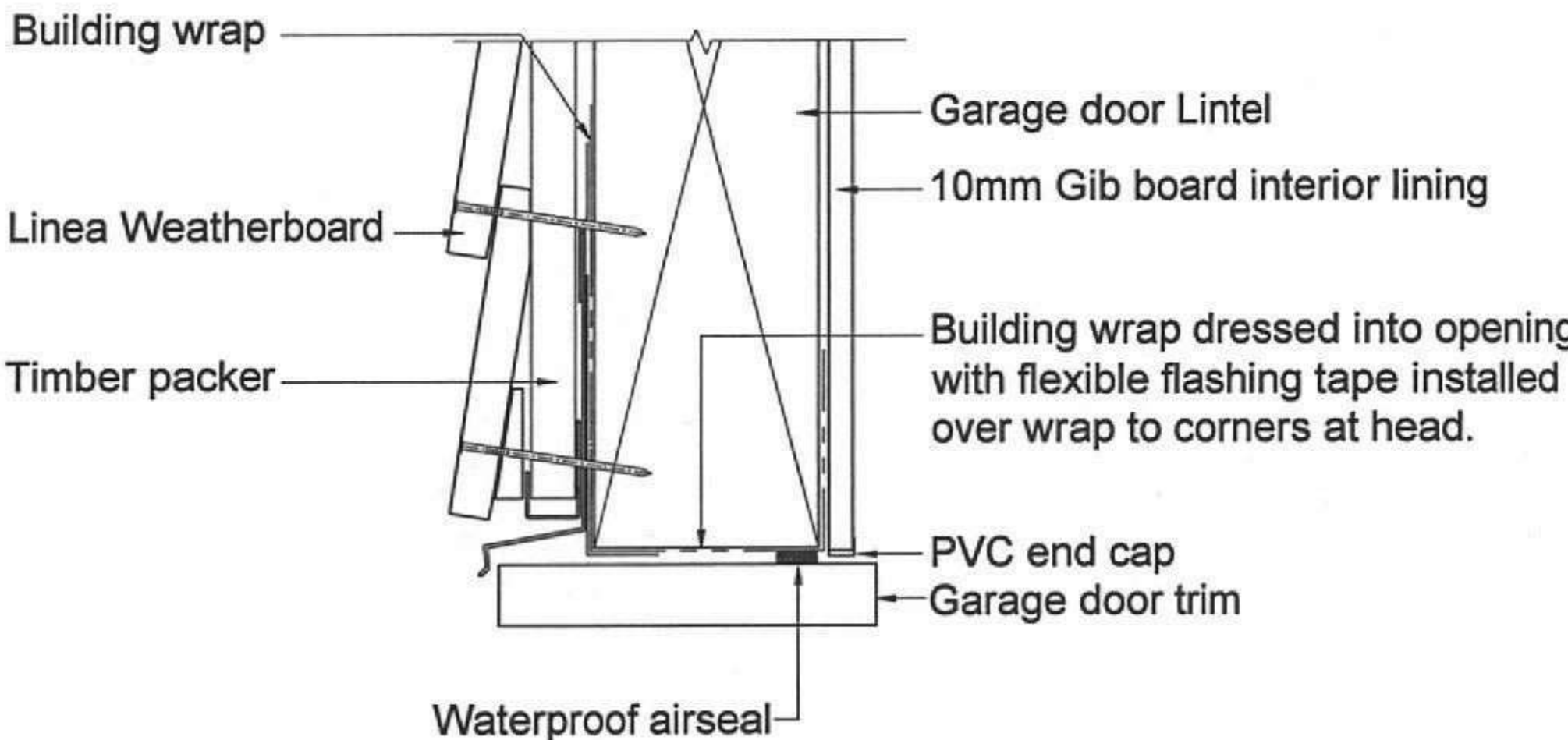
D5
W-09 **GABLE LINEA ROCKCOTE DETAIL**
1:10

CLIENT	ADDRESS	SHEET NAME		SCALE	NOTE
MR & MRS COATES	PIPI TEA PLACE NEW PLYMOUTH	LINEA DETAILS		AS SHOWN	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE.
		DRAWN	DATE	SHEET	JOB NUMBER
		TAB	23/08/12	W-09	195

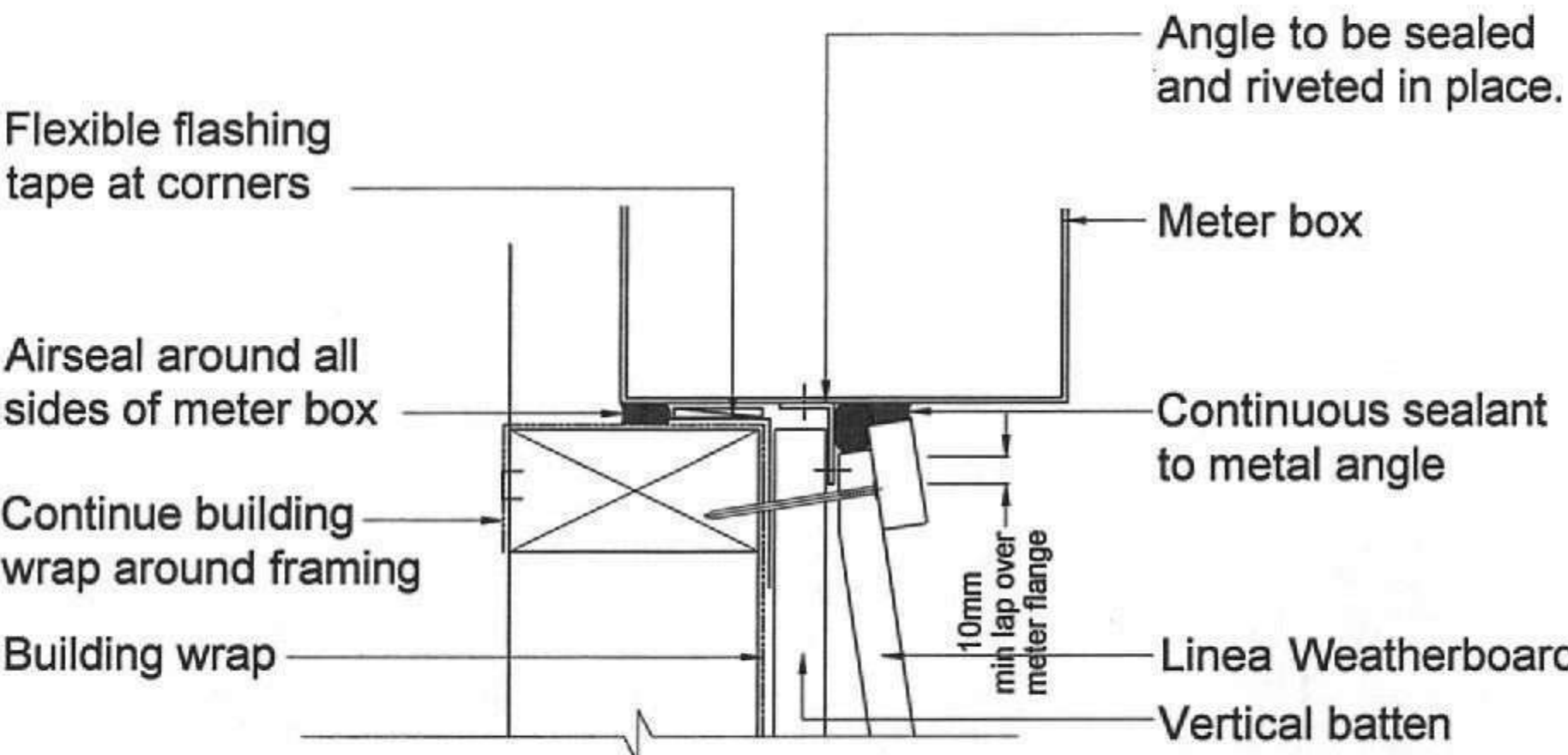
NPDC Approved
31 OCT 2012



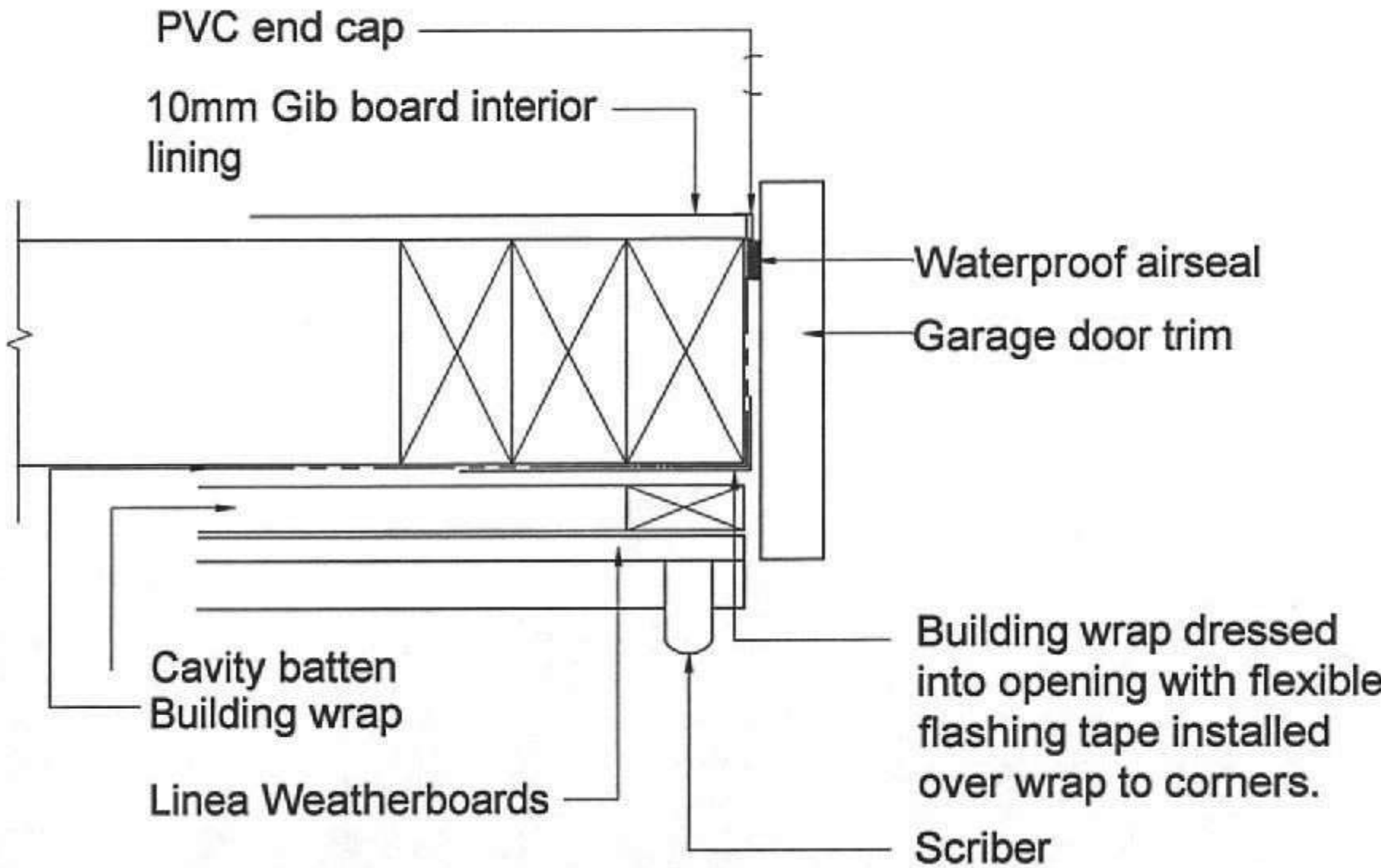
D1
W-10 CAVITY METER BOX AT HEAD



D3
W-10 GARAGE DOOR HEAD



D2
W-10 CAVITY METER BOX AT SILL



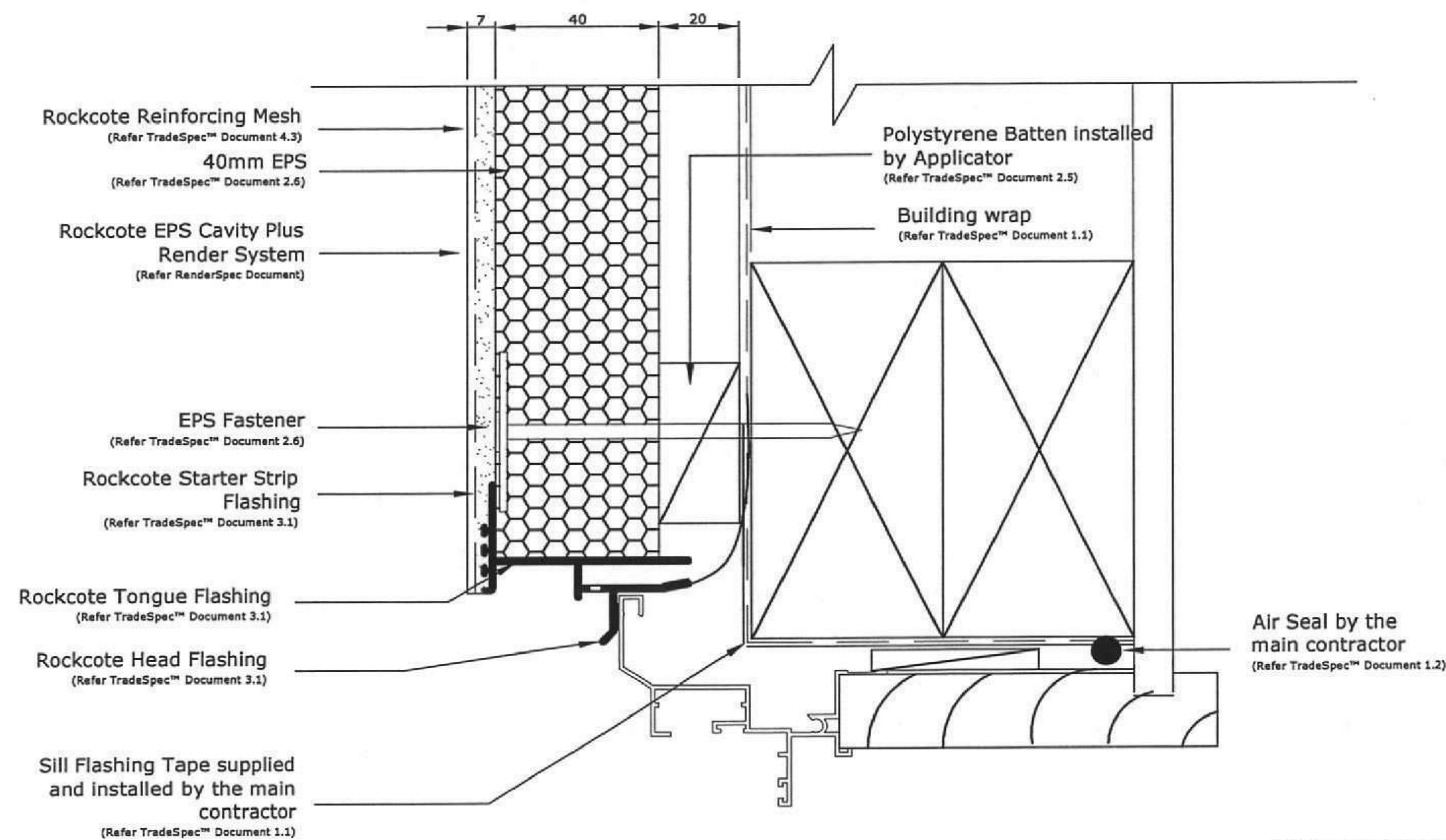
D4
W-10 GARAGE JAMB DETAIL LINEA WEATHERBOARD

NPDC Approved
31 OCT 2012

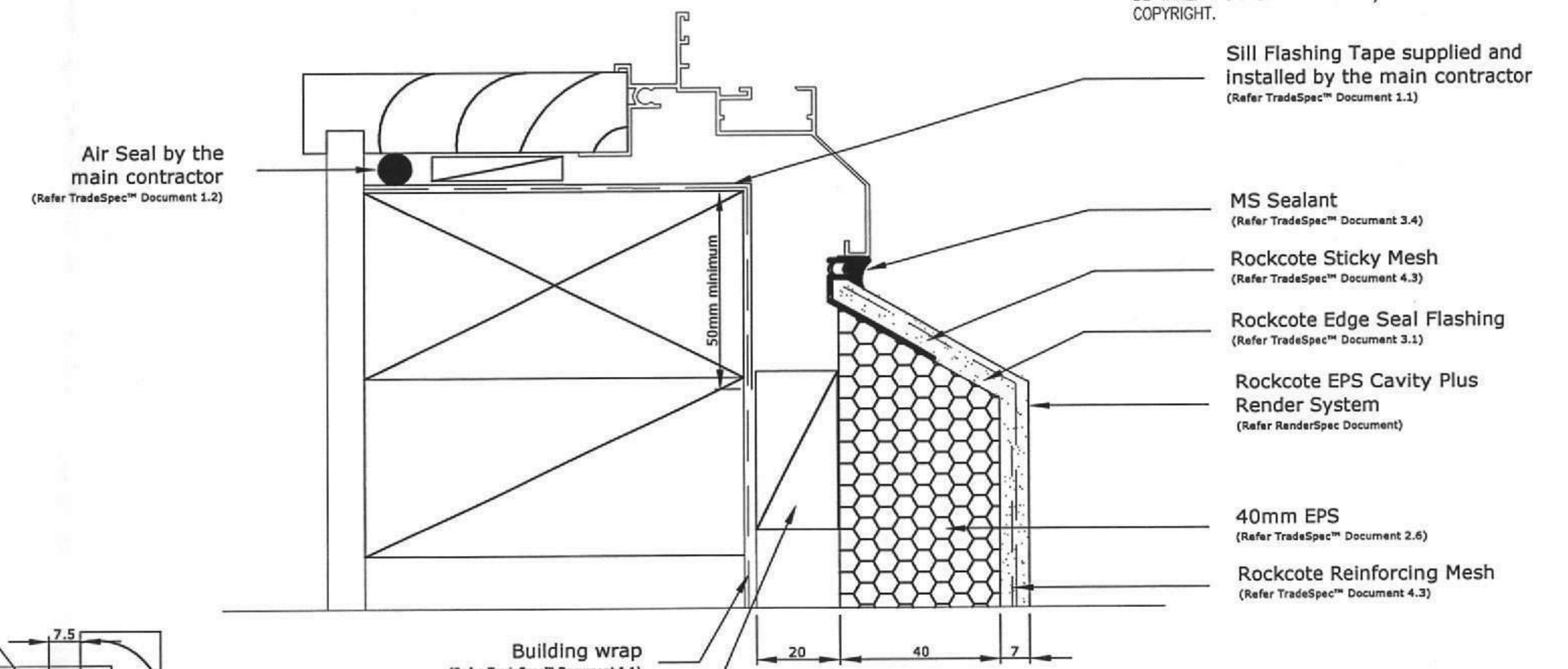
CLIENT	ADDRESS	SHEET NAME		SCALE	NOTE
		GARAGE / METERBOX DETAILS		1:5	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE
		DRAWN	DATE	SHEET	
MR & MRS COATES	PIPITEA PLACE NEW PLYMOUTH	TAB	23/08/12	W-10	195

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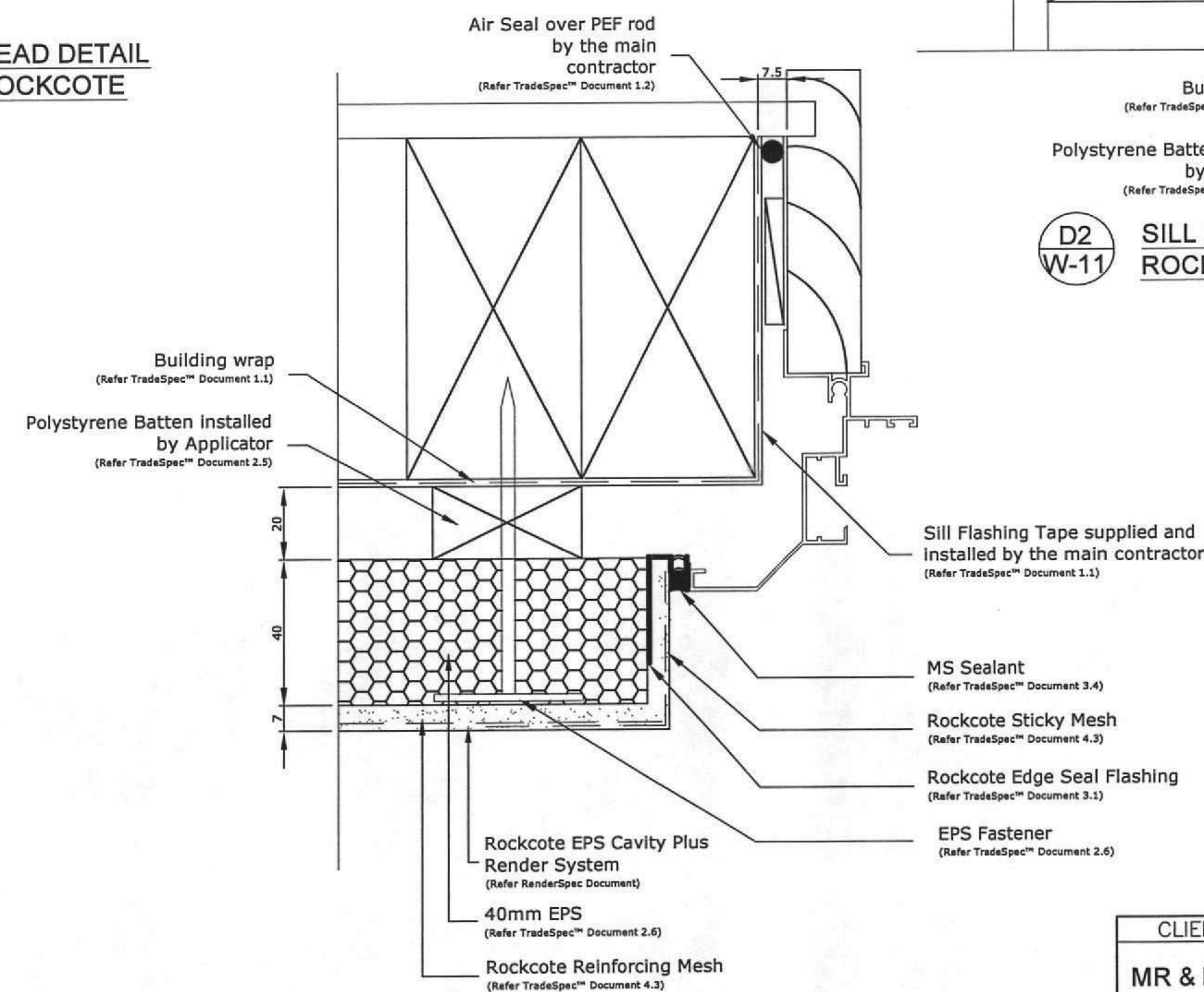
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D1
W-11
HEAD DETAIL
ROCKCOTE



D2
W-11
SILL DETAIL
ROCKCOTE



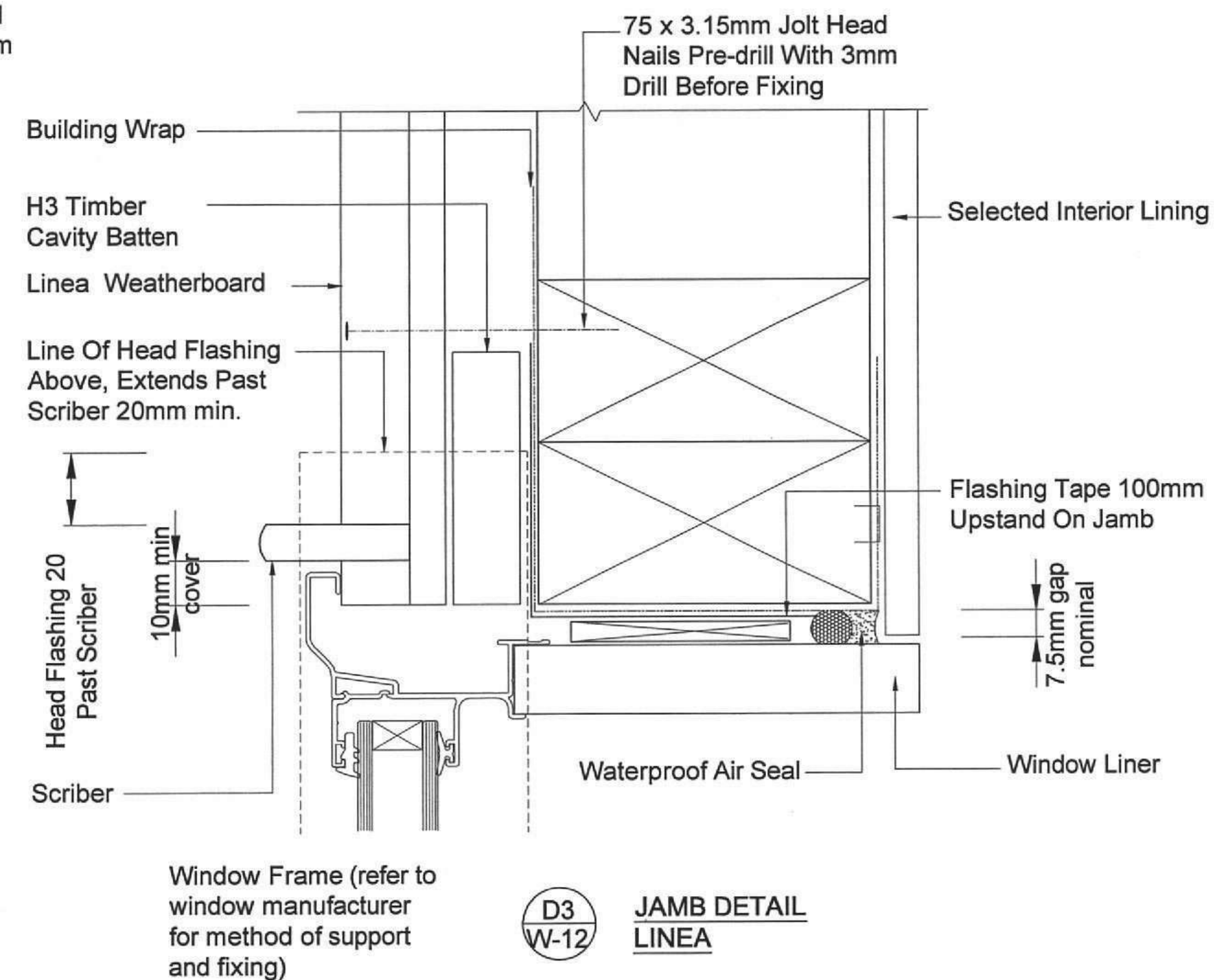
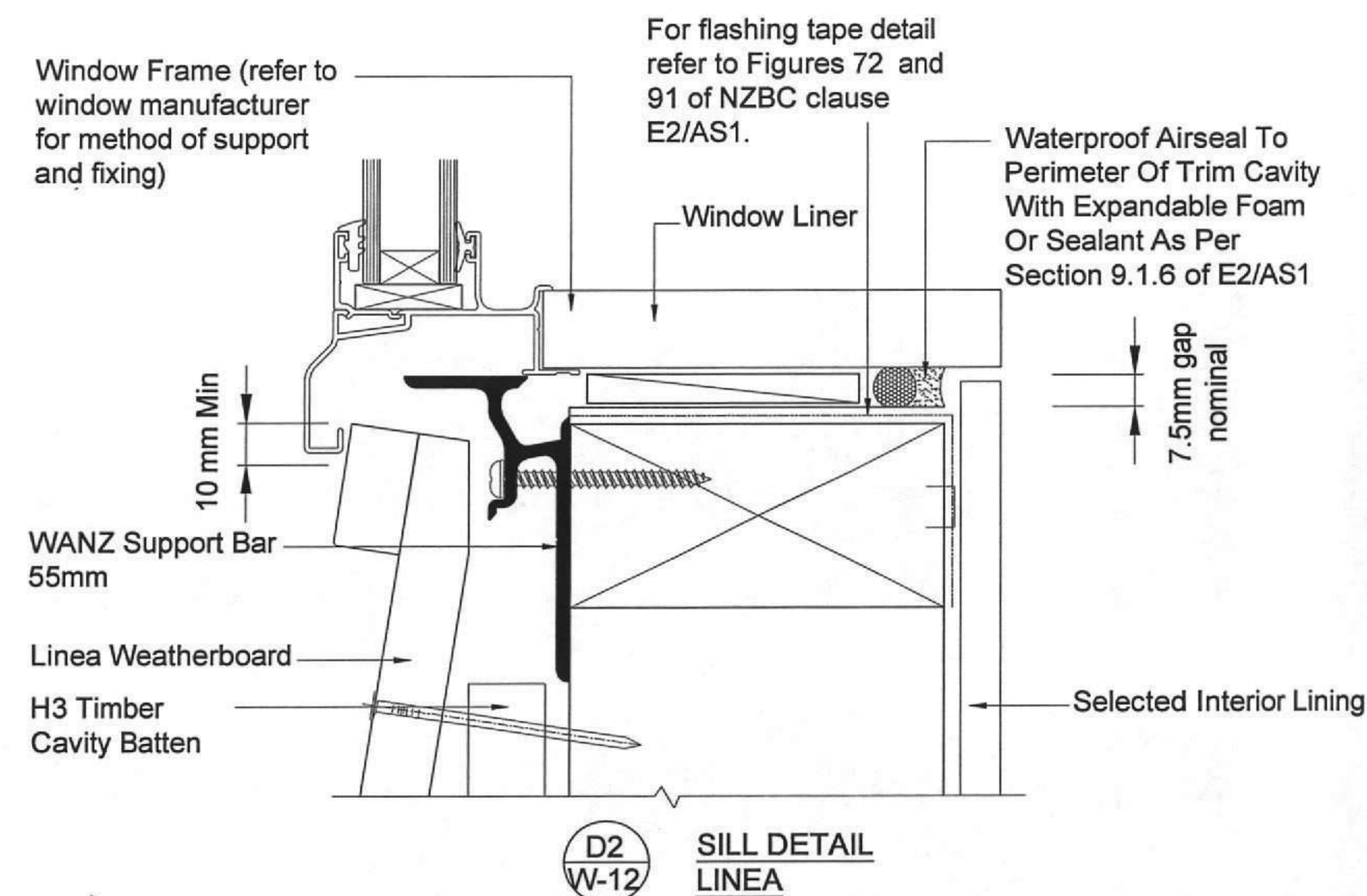
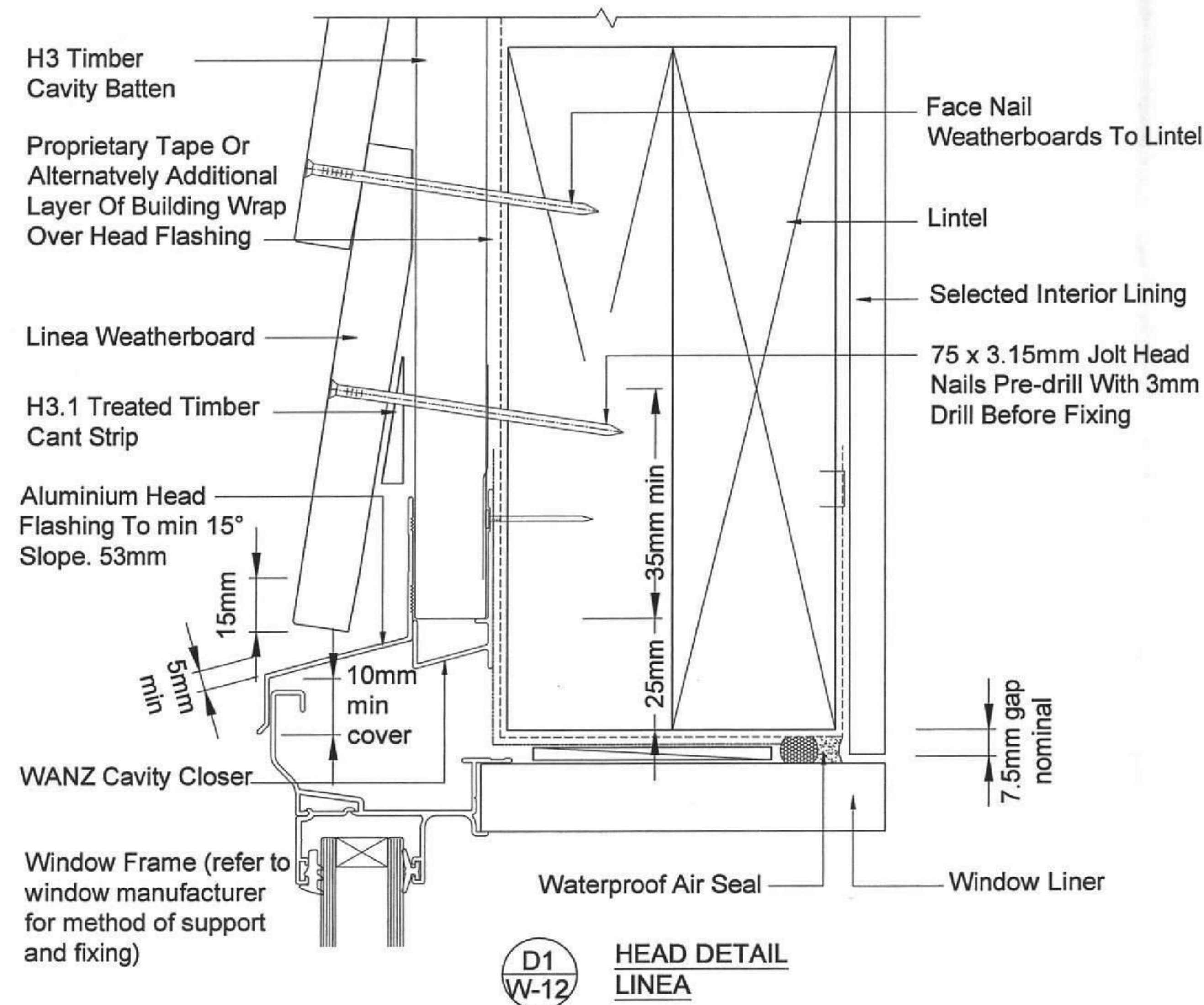
D3
W-11
JAMB DETAIL
ROCKCOTE

CLIENT	ADDRESS	SHEET NAME		SCALE	NOTE
MR & MRS COATES	PIPITEA PLACE NEW PLYMOUTH	WINDOW DETAILS - ROCKCOTE		1:2	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE
		DRAWN	DATE	SHEET	JOB NUMBER
		TAB	23/08/12	W-11	195

NPDC Approved
31 OCT 2012

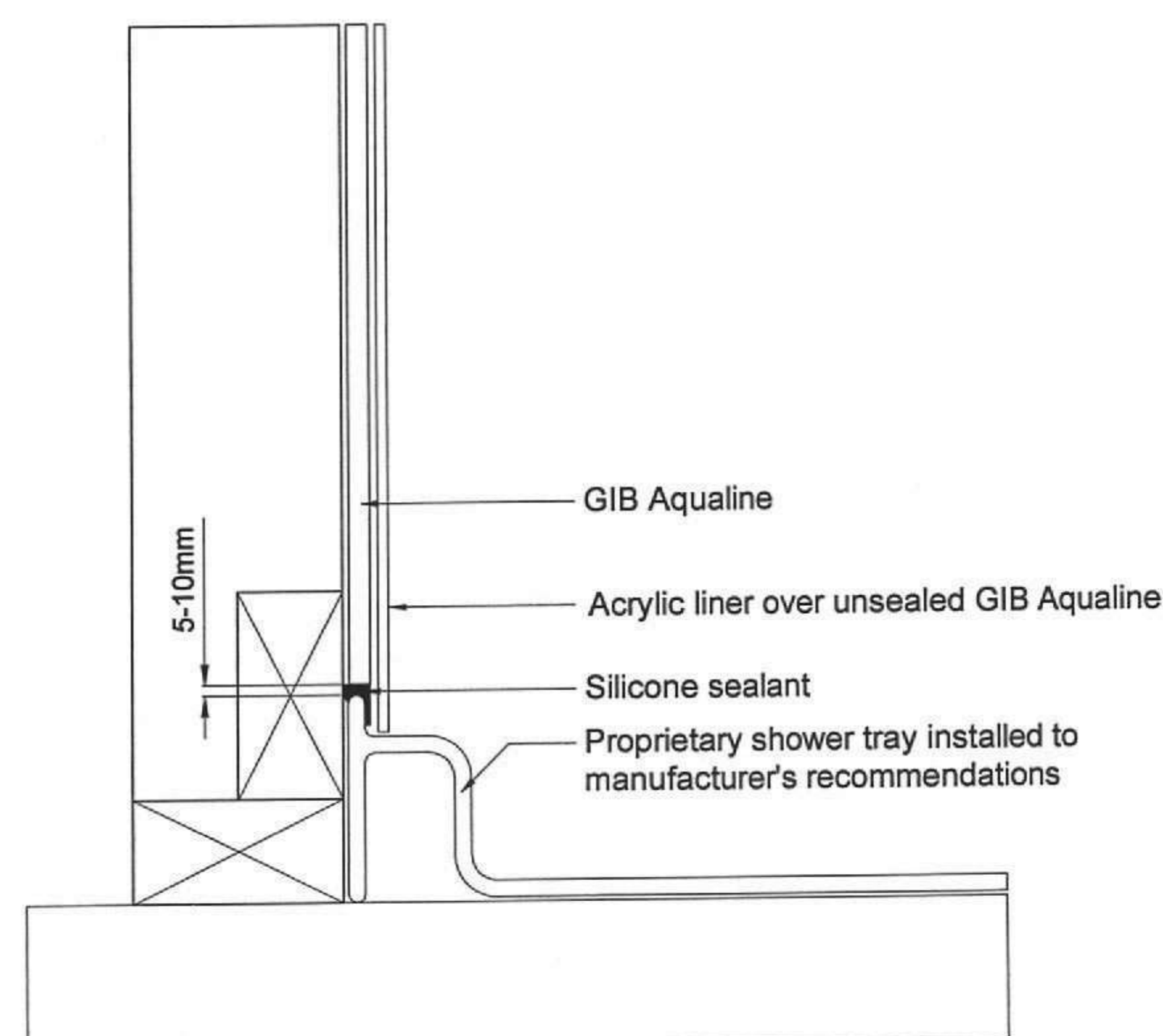
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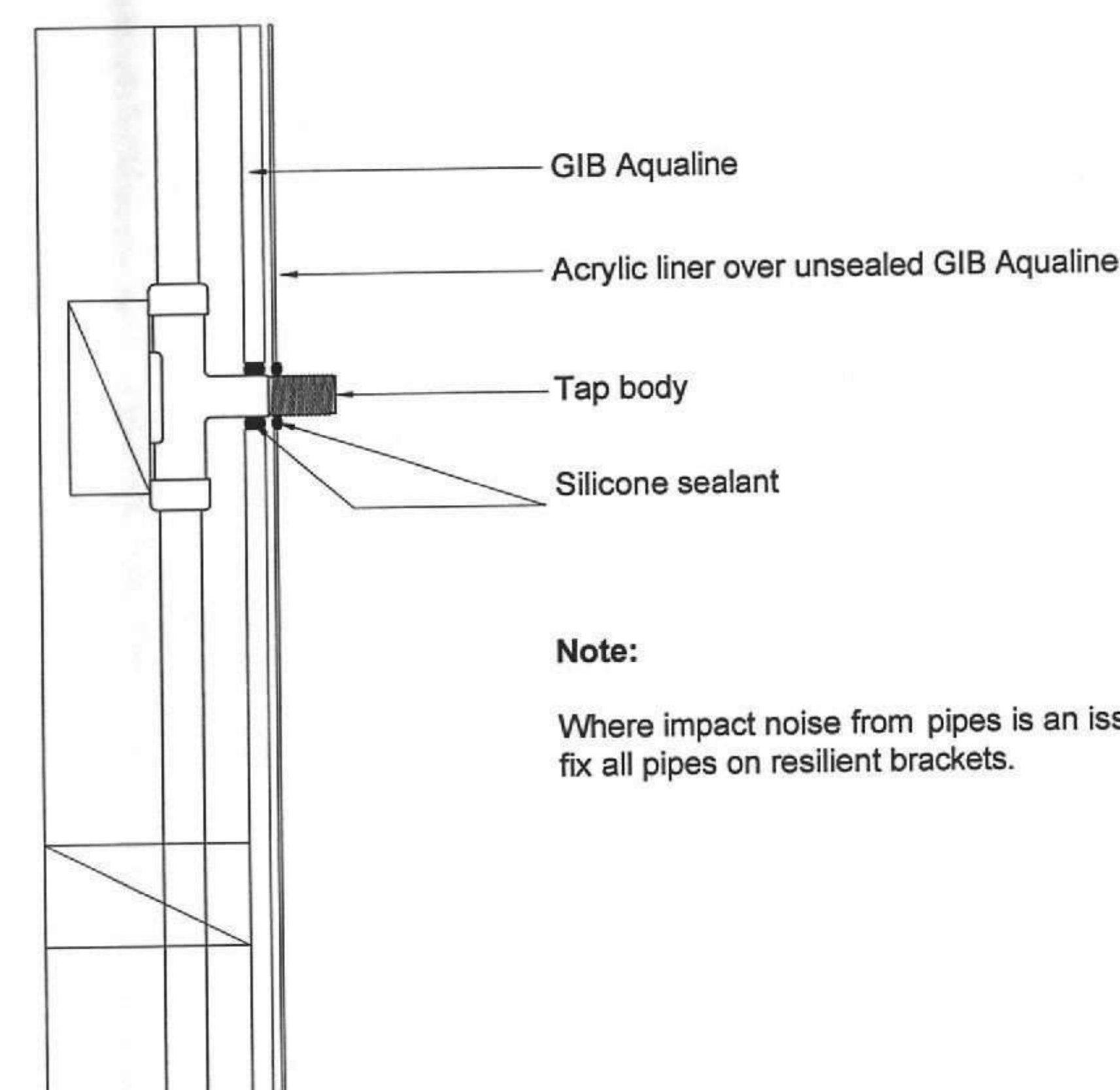


NPDC Approved
31 OCT 2012

CLIENT	ADDRESS	SHEET NAME		SCALE	NOTE
MR & MRS COATES	PIPITEA PLACE NEW PLYMOUTH	WINDOW DETAILS - LINEA		1:2	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE
		DRAWN	DATE	SHEET	JOB NUMBER
		TAB	23/08/12	W-12	195



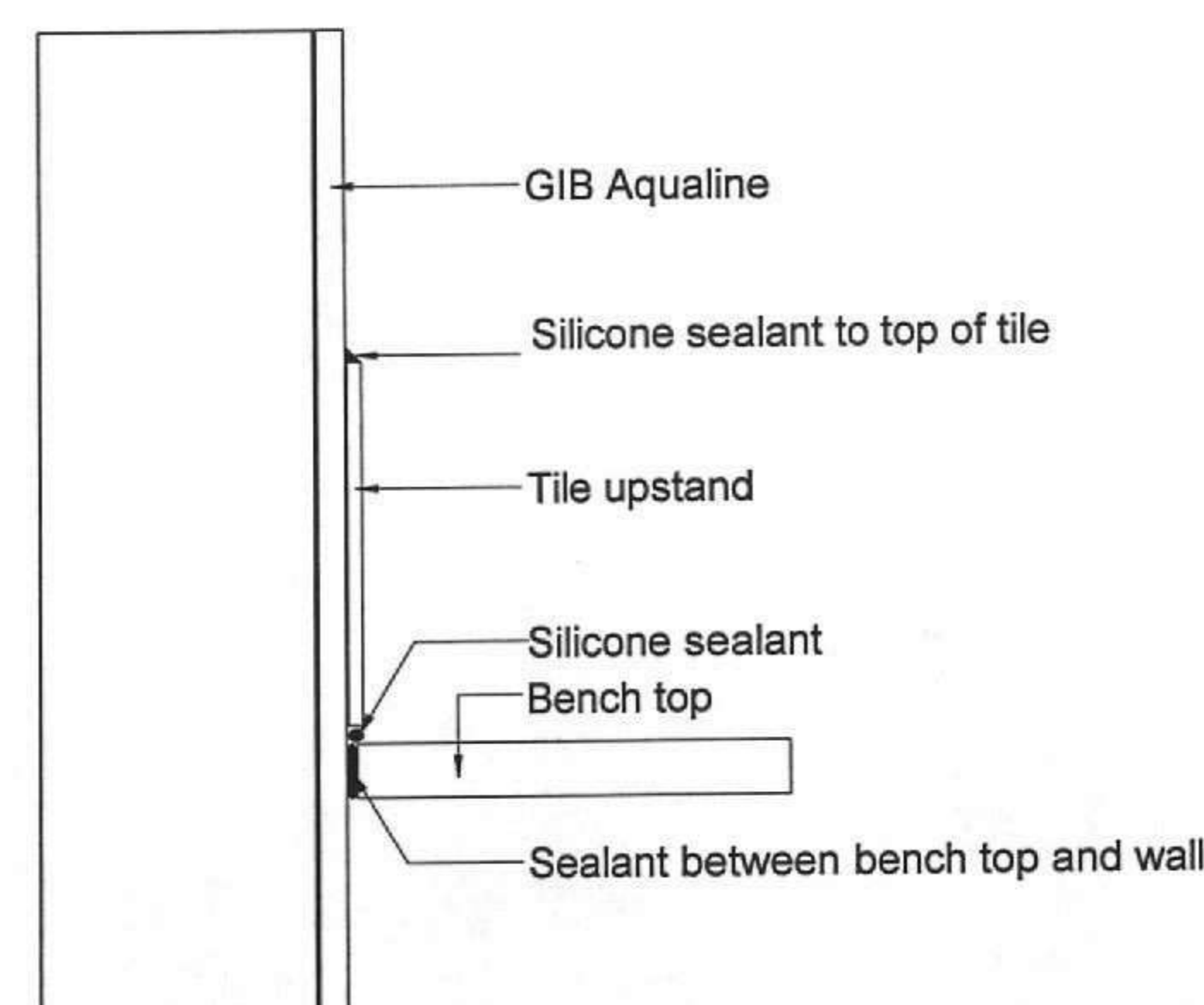
SHOWER WALL/TRAY DETAIL
SHOWER- ACRYLIC LINER AND BASE



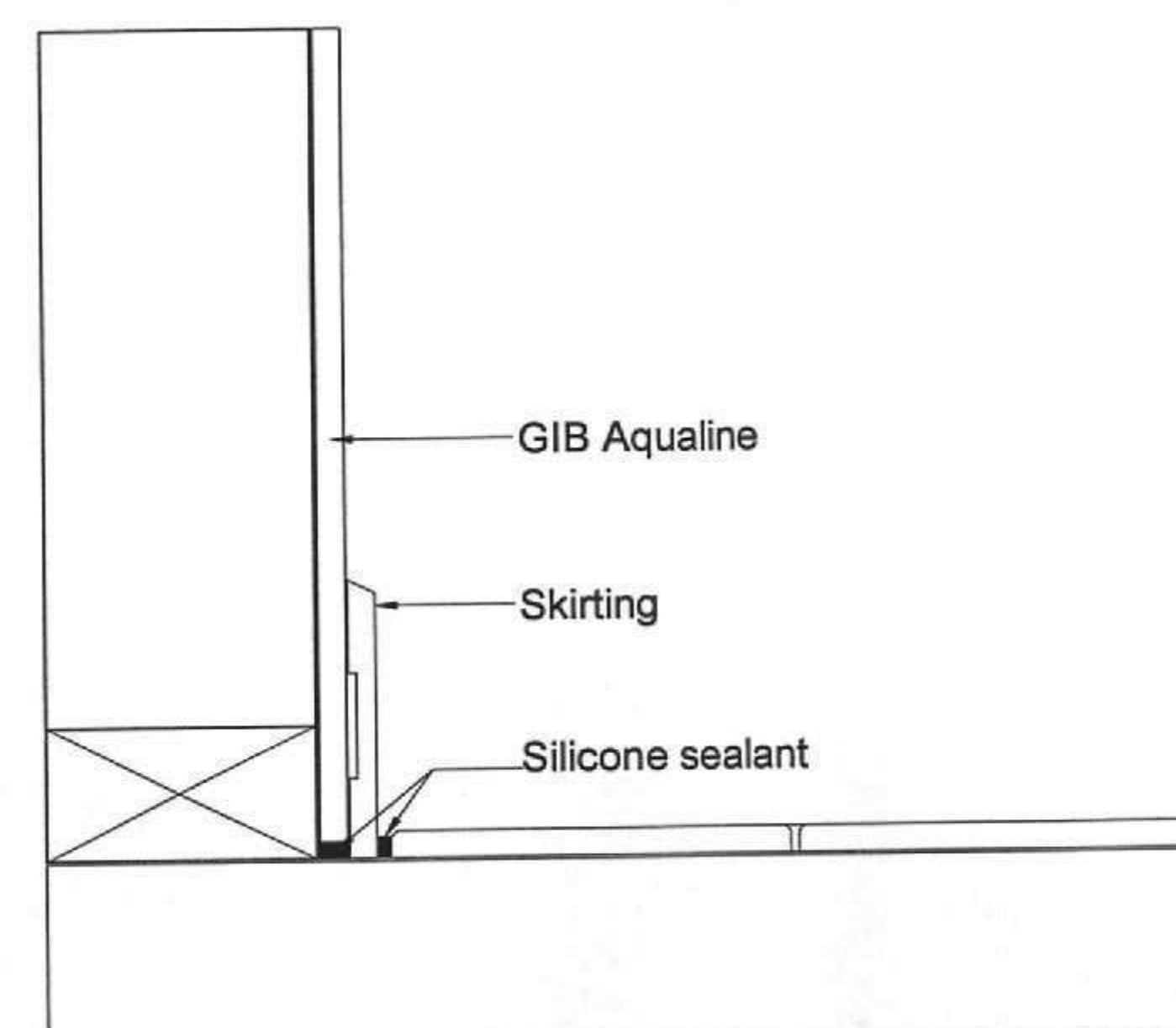
Note:

Where impact noise from pipes is an issue, fix all pipes on resilient brackets.

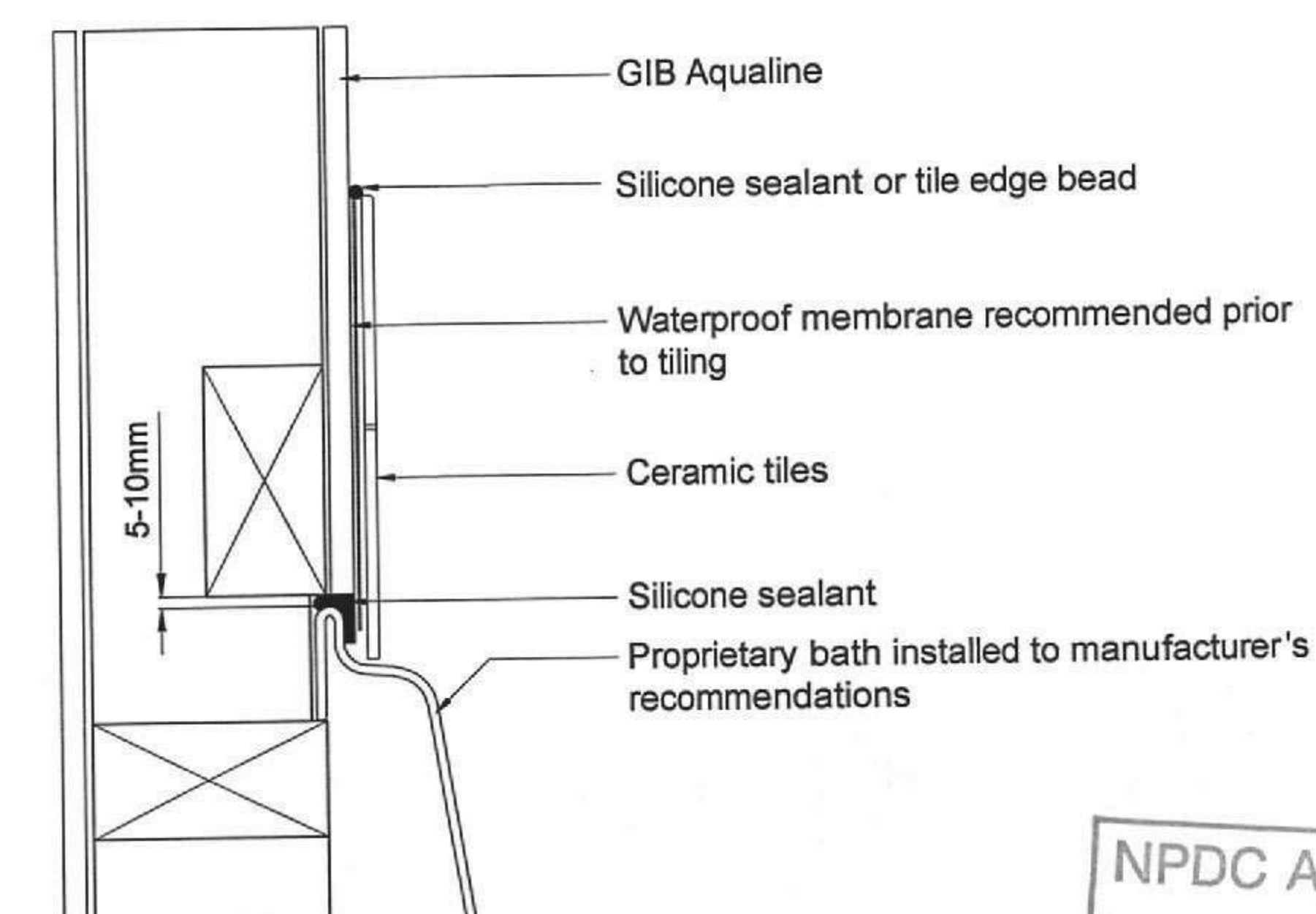
PIPE PENETRATION DETAIL
SHOWER- ACRYLIC LINER AND BASE



BENCH TOP/WALL DETAIL
KITCHEN AND LAUNDRY



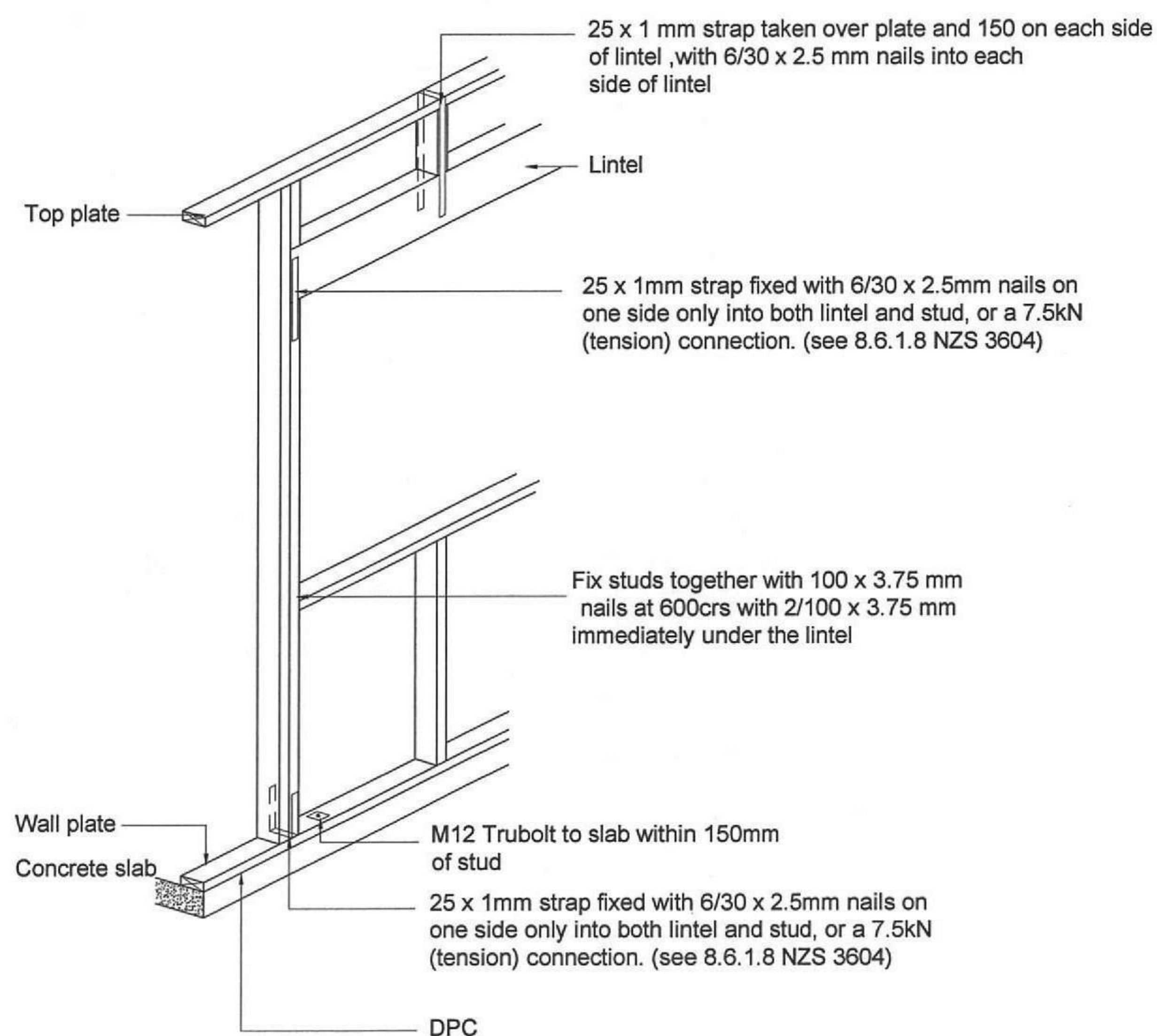
WALL/FLOOR DETAIL
KITCHEN AND LAUNDRY



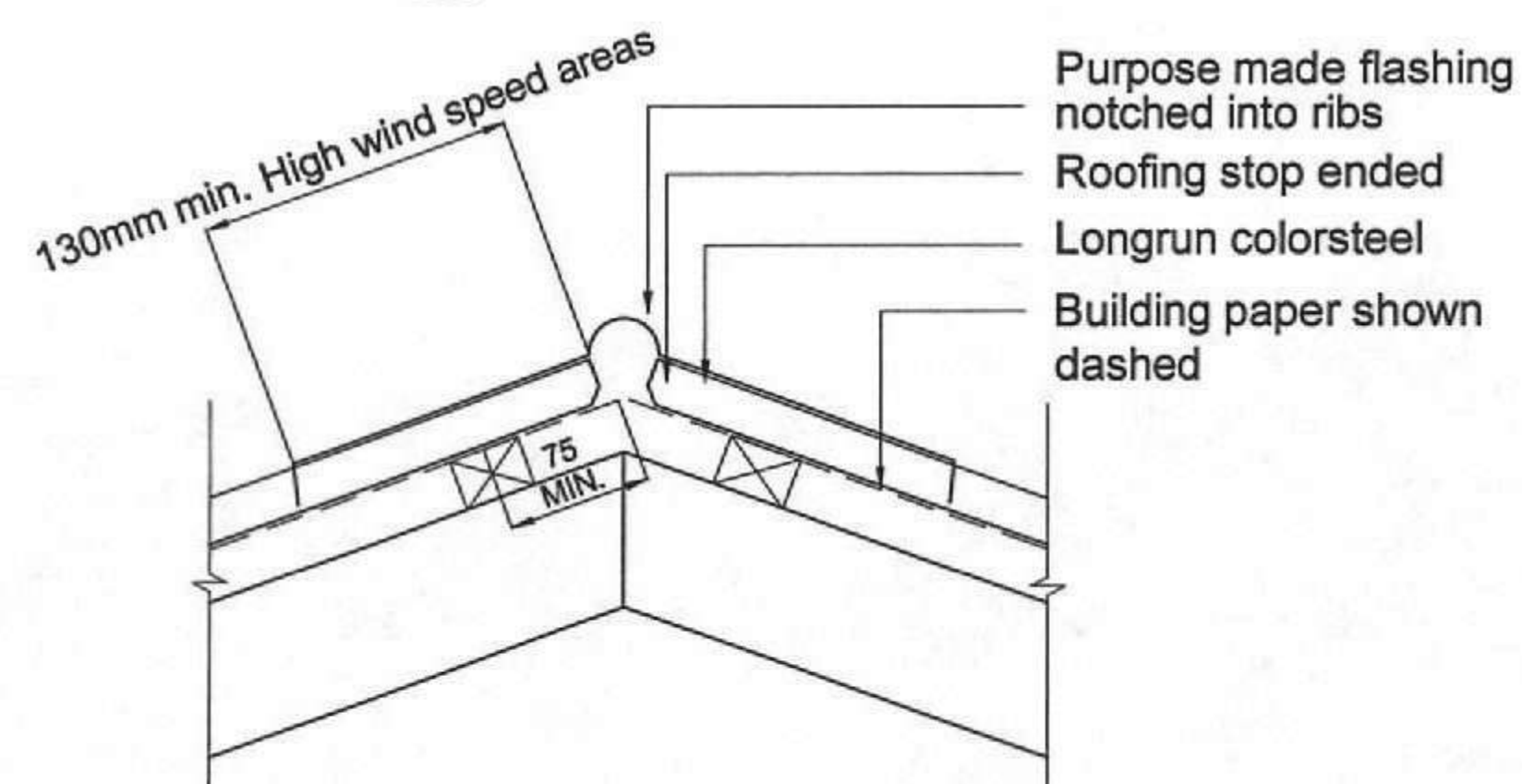
BATH/WALL DETAIL
BATH-TILED UPSTAND

NPDC Approved
31 OCT 2012

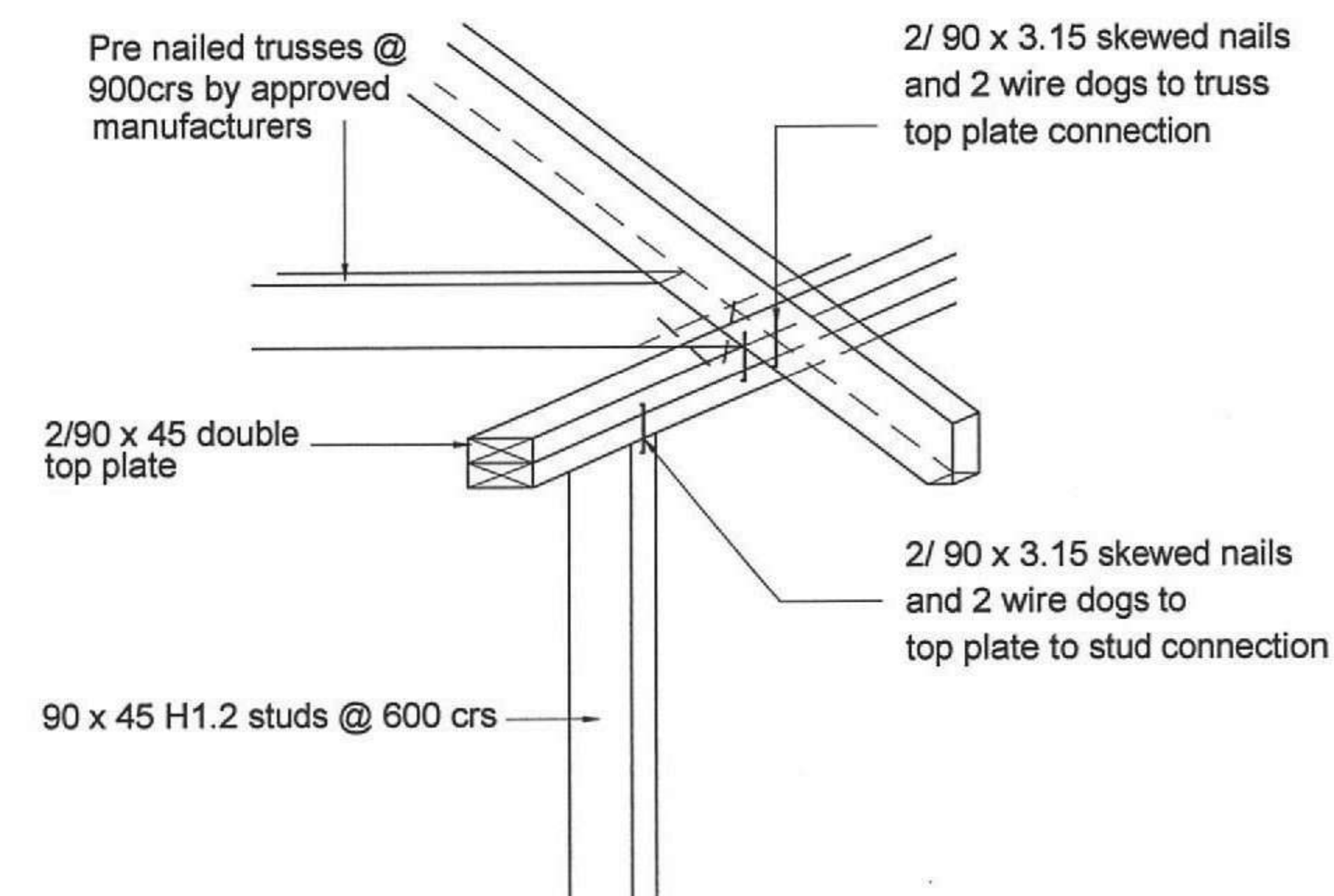
CLIENT	ADDRESS	SHEET NAME		SCALE	NOTE
MR & MRS COATES	PIPTEA PLACE NEW PLYMOUTH	WET DETAILS		N.T.S	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE
		DRAWN	DATE	SHEET	JOB NUMBER
		TAB	23/08/12	W-13	195



D1
W14 LINTEL FIXING

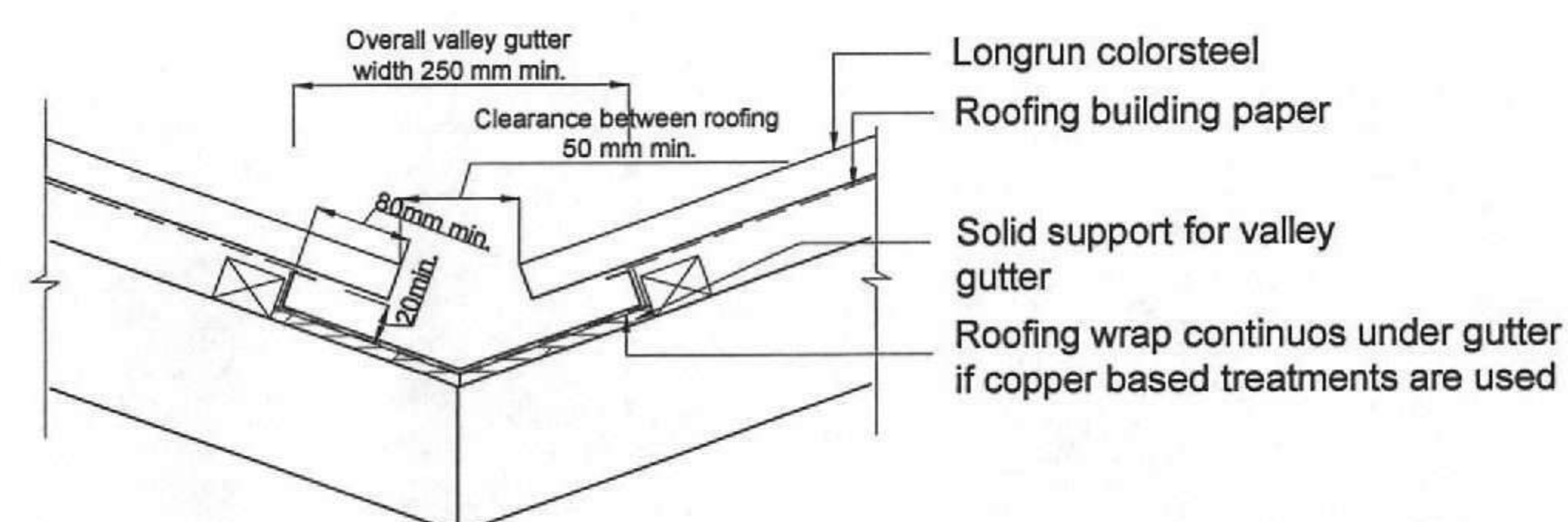


D3
W14 RIDGE DETAIL 1:10



Top plate/stud connection based on Table 8.18 NZS 3604 2011
Truss connection based on 10.21 and table 10.14 NZS 3604 2011

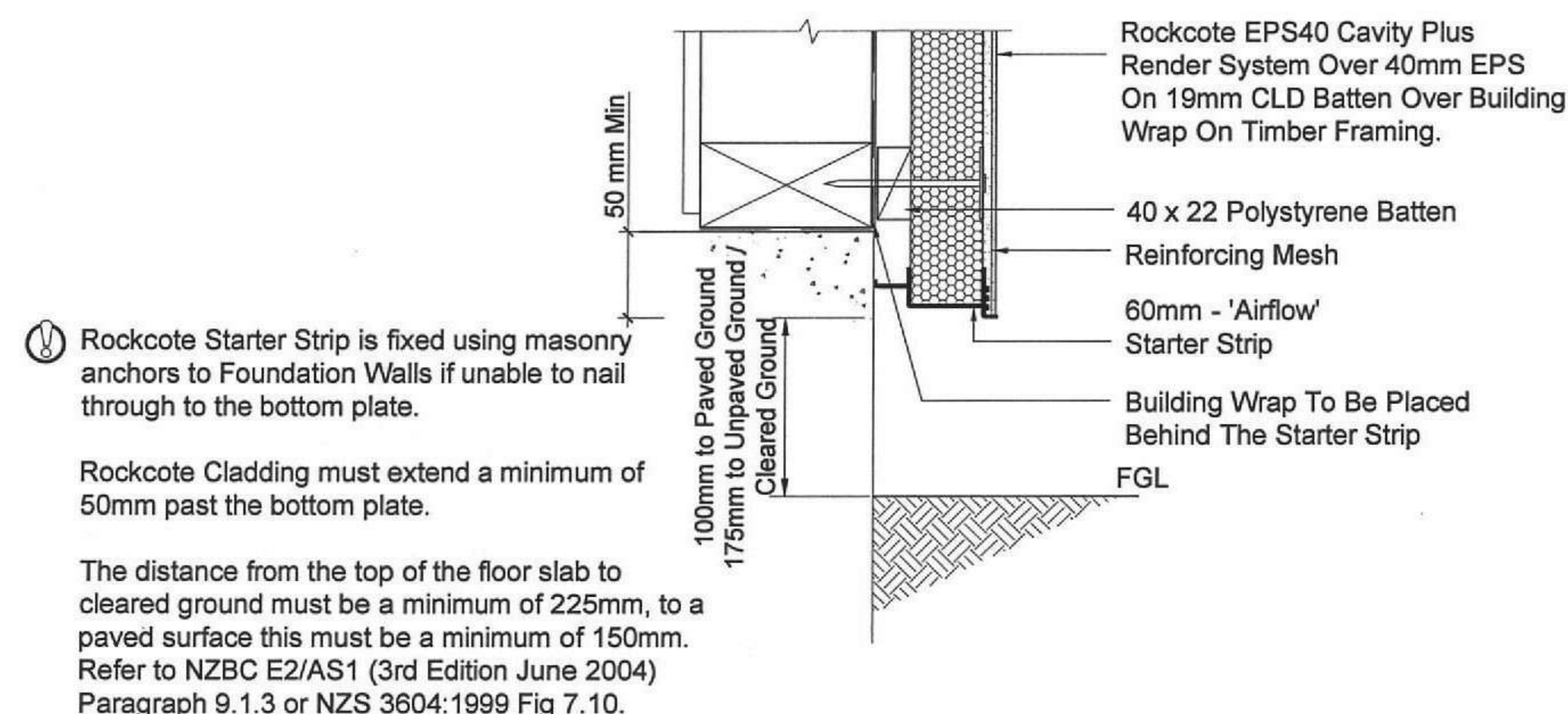
D2
W14 TRUSS FIXING



D4
W14 VALLEY DETAIL

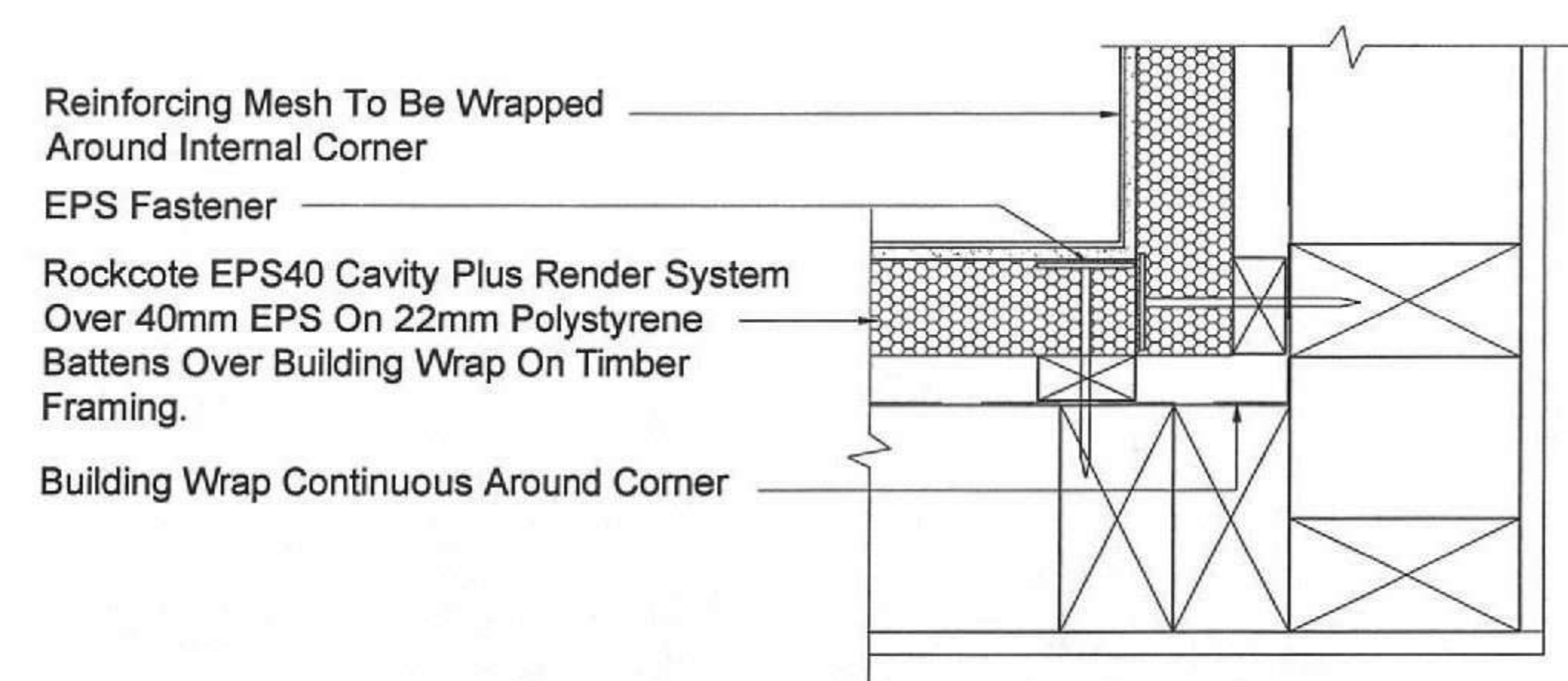
NPDC Approved
31 OCT 2012

CLIENT	ADDRESS	SHEET NAME		SCALE	NOTE
MR & MRS COATES	PIPITEA PLACE NEW PLYMOUTH	FIXING / ROOF DETAILS		AS SHOWN	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE
		DRAWN	DATE	SHEET	JOB NUMBER
		TAB	23/08/12	W-14	195



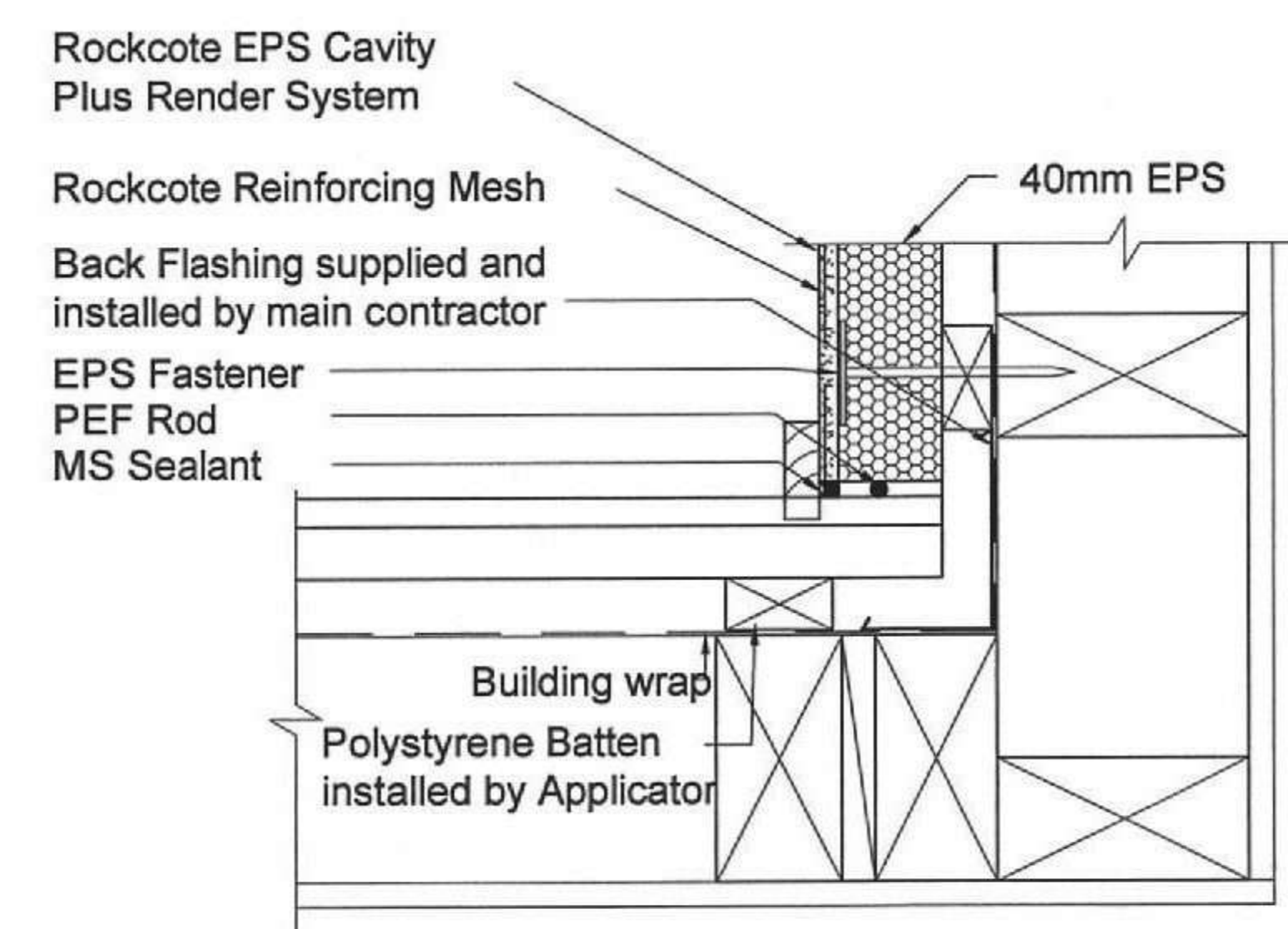
D1
W-15

**Rockcote
Concrete Footing
1-5**



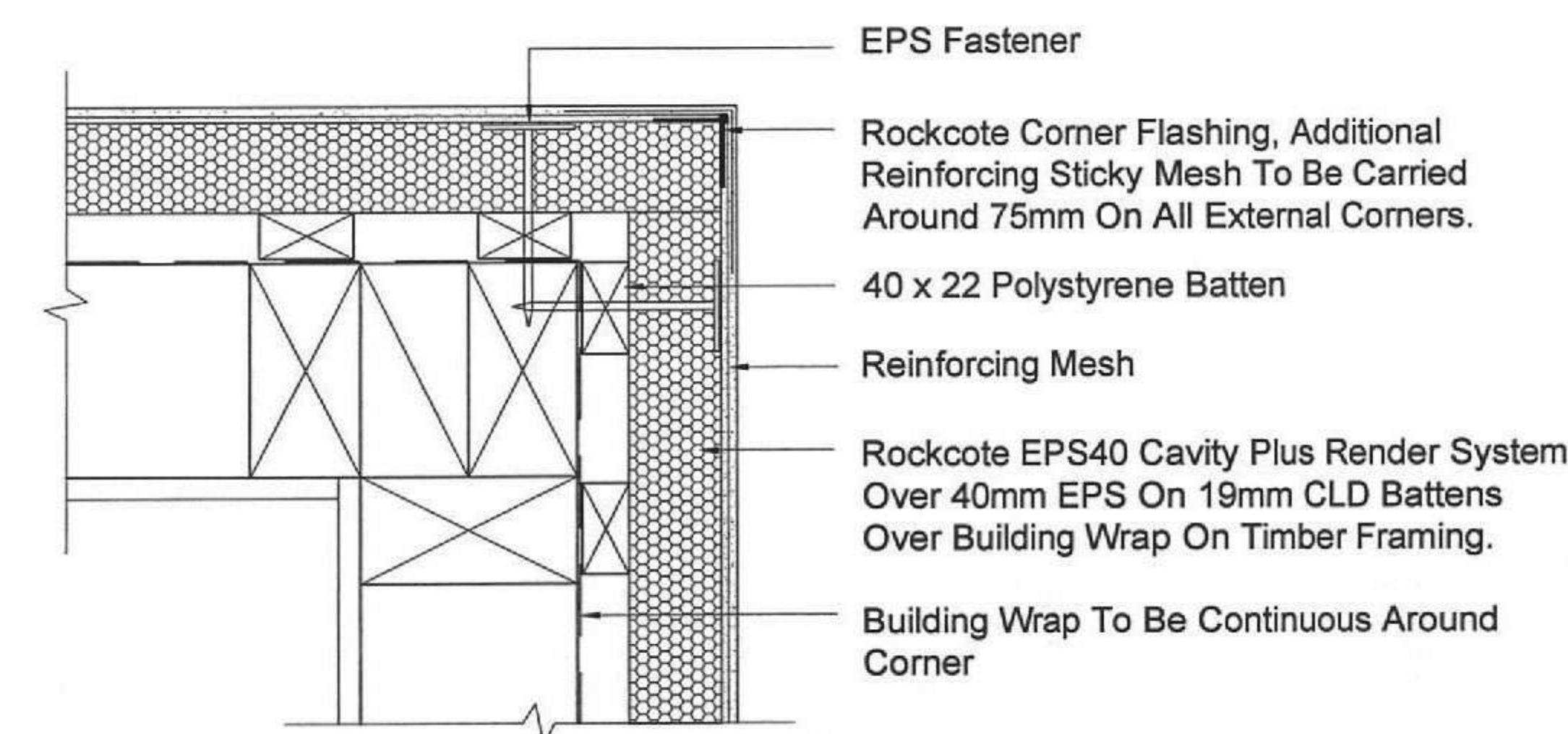
D3
W-15

**INTERNAL CORNER
Rockcote
1-5**



D2
W-15

**INTERNAL CORNER
LINEA / ROCKCOTE
1-5**



D4
W-15

**EXTERNAL CORNER
Rockcote
1-5**

NPDC Approved
31 OCT 2012

CLIENT	ADDRESS	SHEET NAME	SCALE	NOTE
MR & MRS COATES	PIPI TEA PLACE NEW PLYMOUTH	ROCKCOTE DETAILS	1:5	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE.
		DRAWN	DATE	SHEET
		TAB	23/08/12	W-15
				JOB NUMBER
				195

OVERALL SETOUT
WALL SETOUT
WINDOW SETOUT
FRAMING SETOUT
HALLWAY SETOUT

BEDROOM SETOUT

OVERALL SETOUT

WALL SETOUT

WINDOW SETOUT

FRAMING SETOUT

HALLWAY SETOUT

OVERALL SETOUT

WALL SETOUT

WINDOW SETOUT

FRAMING SETOUT

HALLWAY SETOUT

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FRAMING SETOUT

HALLWAY SETOUT

OVERALL SETOUT

WALL SETOUT

WINDOW SETOUT

FRAMING SETOUT

HALLWAY SETOUT

OVERALL SETOUT

Cavalier Homes
TARANAKI

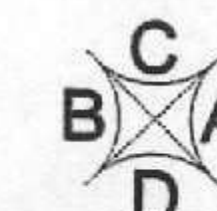
FRAMING SETOUT
WINDOW SETOUT
WALL SETOUT
OVERALL SETOUT



This approval is only for structural members covered by the attached calculations prepared by:

Tse Taranaki & Associates Limited
P.O. Box 237, New Plymouth
Ph. 06 758-8390, Fax 06 757-9404

[Signature] 30/11/2013



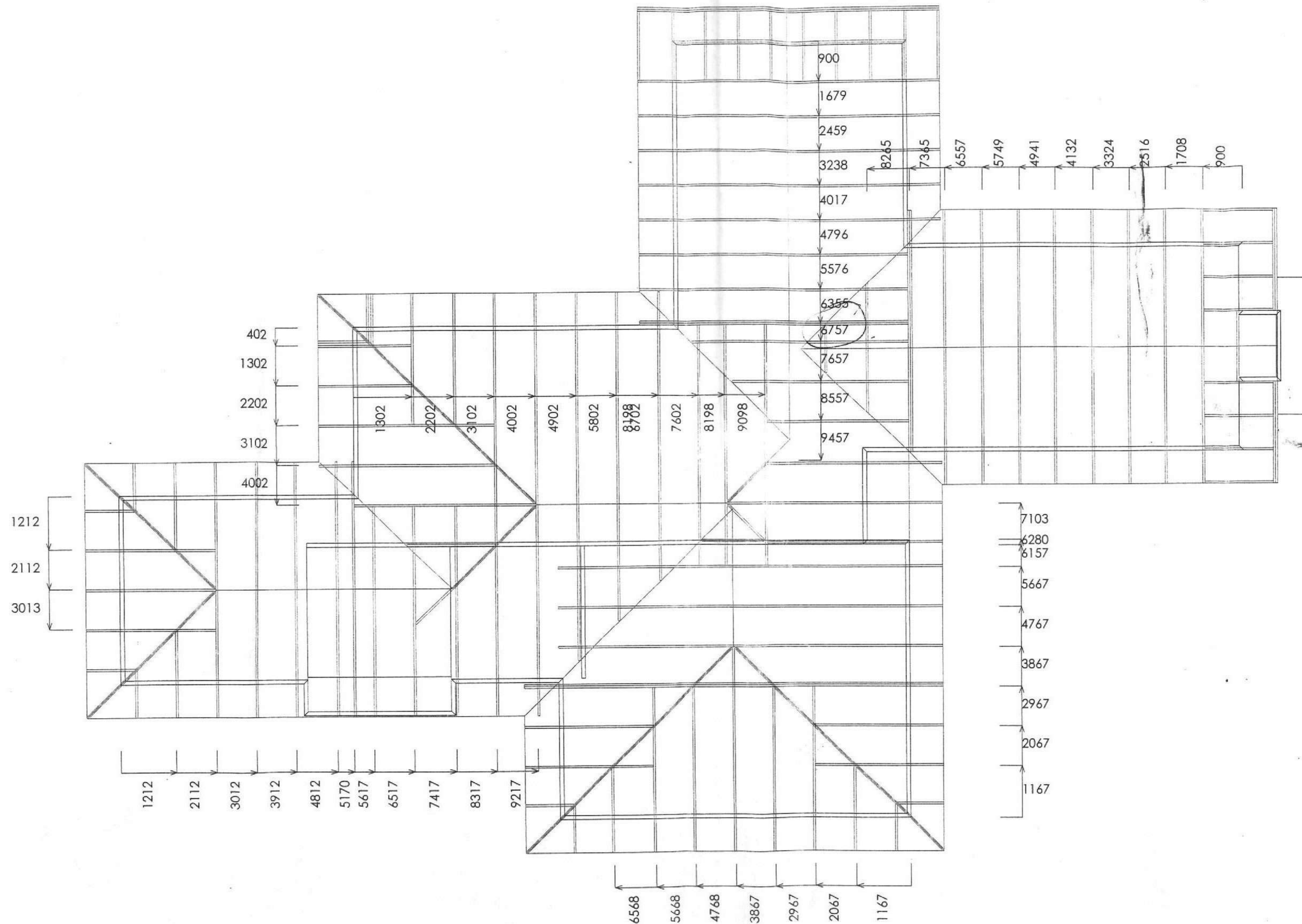
Elevation Orientation
High Wind Zone
○ SD = Smoke detectors

Roof Pitch 20 deg
Stud height 2420
James Hardies Linea Weatherboards, Plaster Cladding
Window head height 2000
All lighting to comply with AS/NZS60598.2.2 Amendment A
TOTAL FLOOR AREA 218.1 sqm

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CLIENT	ADDRESS	SHEET NAME	SCALE	NOTE
MR & MRS COATES	PIPITEA PLACE NEW PLYMOUTH	FLOOR PLAN	1:100	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE
		DRAWN	DATE	
		TAB	23/08/12	
		W-02		195



FACTORY
320 High Street
Solway
MASTERTON
Phone: (06) 370 1300
Fax: (06) 370 1395

POSTAL ADDRESS
PO BOX 112
CARTERTON
5743
Email: info@cpsc.co.nz

Site Address :
**Coates
Lot 5,
Kotakare Cres
New Plymouth**

Sheet Title :
**For Building Consent
Buildable Truss Layout**

Date : 20 Nov, 2012
Scale : 1: 100

Drawn : Administrator
System : MiTek 20/20

Job Details:
Roof Pitch : 20.00deg
Roof Material : Light
Ceiling Material : Rondo on clips
Wind Zone : High
Roof Snow Load : 0.000kPa

Truss Centres : 900mm
Roof Live Load : 0.250kPa
Floor Live Load :
Wind Speed : 44m/s
Overhang : 750mm



PrimeCad v4.6.6.138

Job Title :
02699

Sheet :
1

Revision Number :

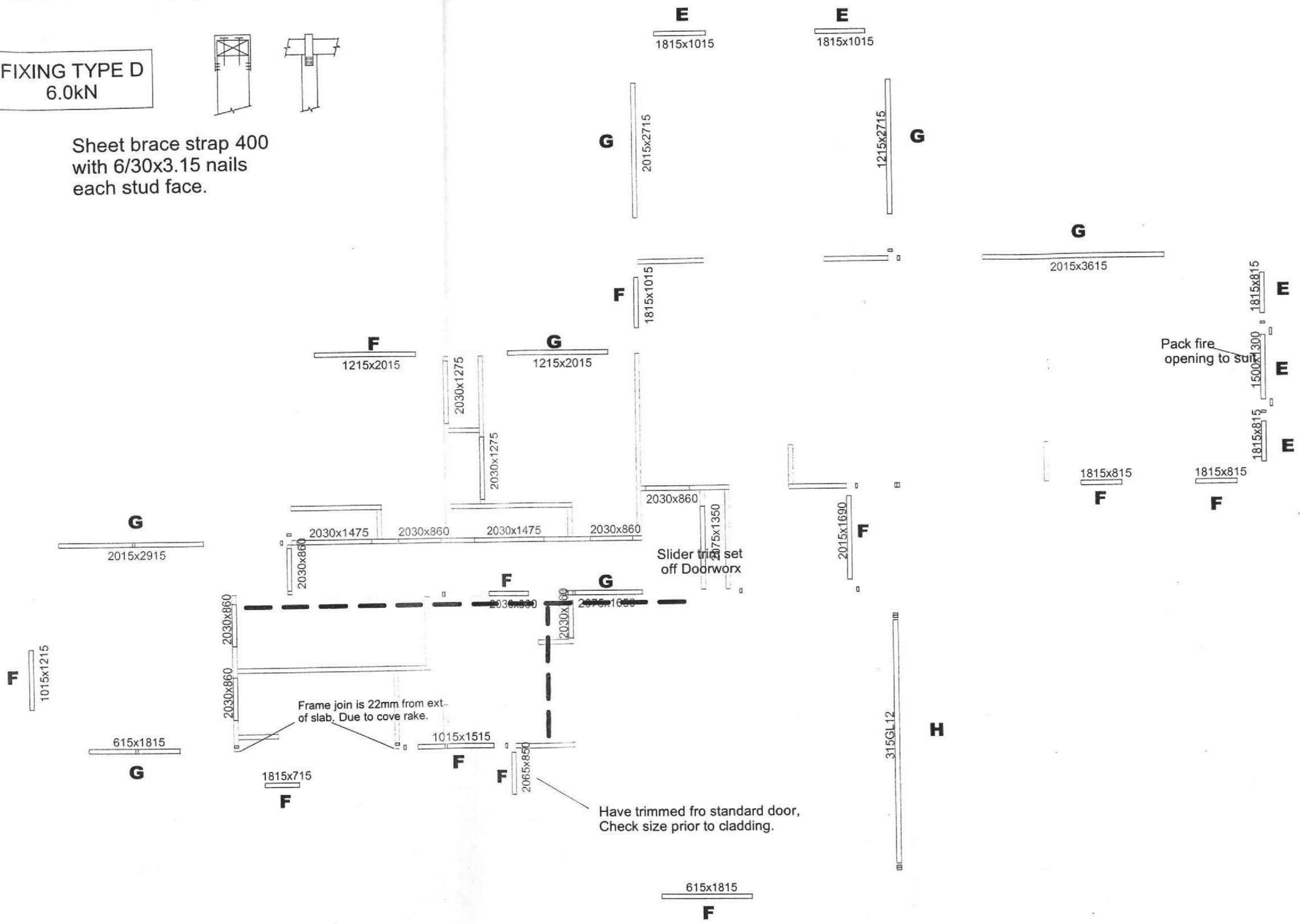
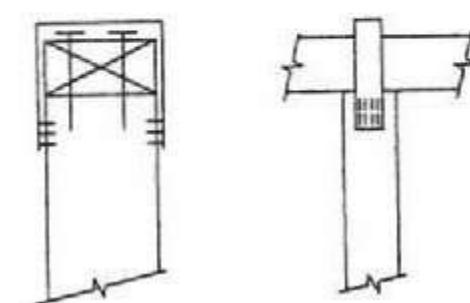
Lintel Fixing Details

- TYPE E
1.4kN
- TYPE F
4.0kN
- TYPE G
7.5kN
- TYPE H
13.5kN

Internal walls that require Lumberlok stud strap.
All external wall except gables walls require stub strap also.

FIXING TYPE D
6.0kN

Sheet brace strap 400
with 6/30x3.15 nails
each stud face.



NOTES:
Refer to:
Lintel Fixing Schedule 04/2008
pages 28 & 29, Structural Fixings
On-site Guide for Building Code
Compliance 2009 Edition

(Alternative to NZS 3604:1999
Table 8.14 & Figure 8.12)



Capital Precut Solutions LTD

FACTORY

320 High Street
Solway
MASTERTON
Phone: (06) 370 1390
Fax: (06) 370 1395

POSTAL ADDRESS

PO BOX 112
CARTERTON
5143
Email: capitalprecut@xtra.co.nz

Site Address :
Coates
Lot 5,
Kotakare Cres
New Plymouth

Sheet Title :
**For Building Consent
Lintel Fixing**

Date : 20 Nov, 2012
Scale : 1: 100

Drawn : Administrator
System : MiTek 20/20

Job Details:
Roof Pitch : 20.00deg
Roof Material : Light
Ceiling Material : Rondo on clips
Wind Zone : High
Roof Snow Load : 0.000kPa

Truss Centres : 900mm
Roof Live Load : 0.250kPa
Floor Live Load :
Wind Speed : 44m/s
Overhang : 750mm



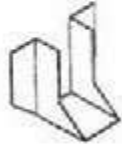
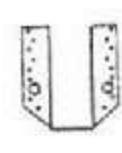
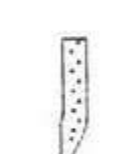
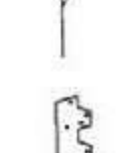
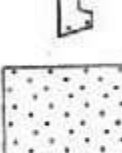
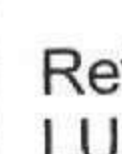
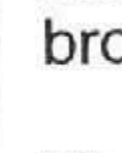
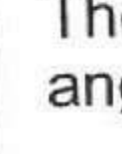
PrimeCad v4.6.6.138

Job Title :
02699

Sheet :
2

Revision Number :

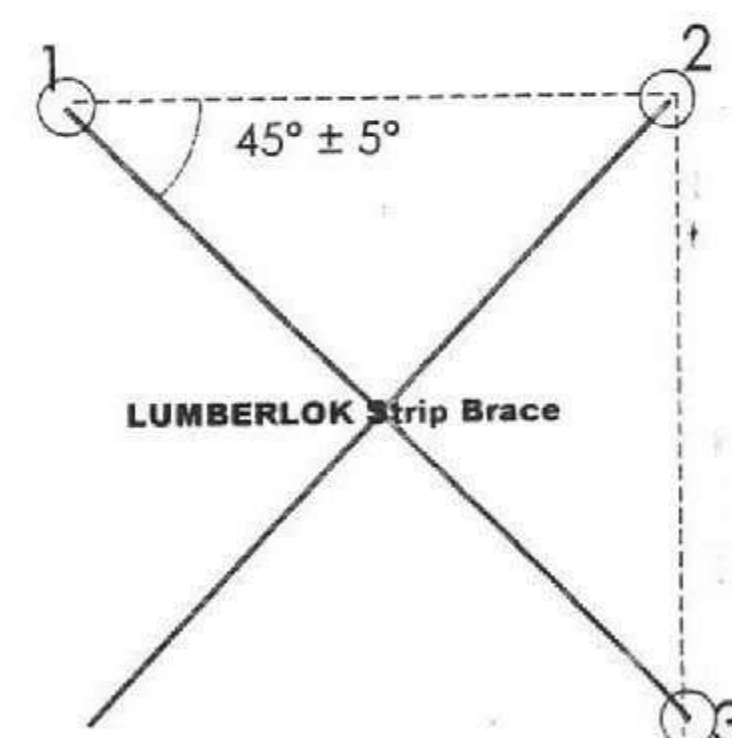
Truss Fixings

-  X - LUMBERLOK JH47x90 Joist Hanger
-  Z - LUMBERLOK JH47x120 Joist Hanger
-  P - LUMBERLOK JH47x190 Joist Hanger
-  E - LUMBERLOK JH95x165 Joist Hanger
-  O - Pair of LUMBERLOK CT200 Ceiling Ties
-  H - LUMBERLOK CT400 Cyclone Tie
-  B - LUMBERLOK CT600 Cyclone Tie
-  M - Pair of LUMBERLOK Multi Grips
-  NP - LUMBERLOK Nailon Plate
-  N - LUMBERLOK N21 Diagonal Cleat
-  W - Pair of LUMBERLOK CPC40 Cleats
-  K - LUMBERLOK TTP 16kN Truss to Top Plate set
-  G - LUMBERLOK TTP 9kN Truss to Top Plate set

Roof Bracing

Refer to:
LUMBERLOK Roof Bracing Specifications
brochure 08/2006 for end fixing details.

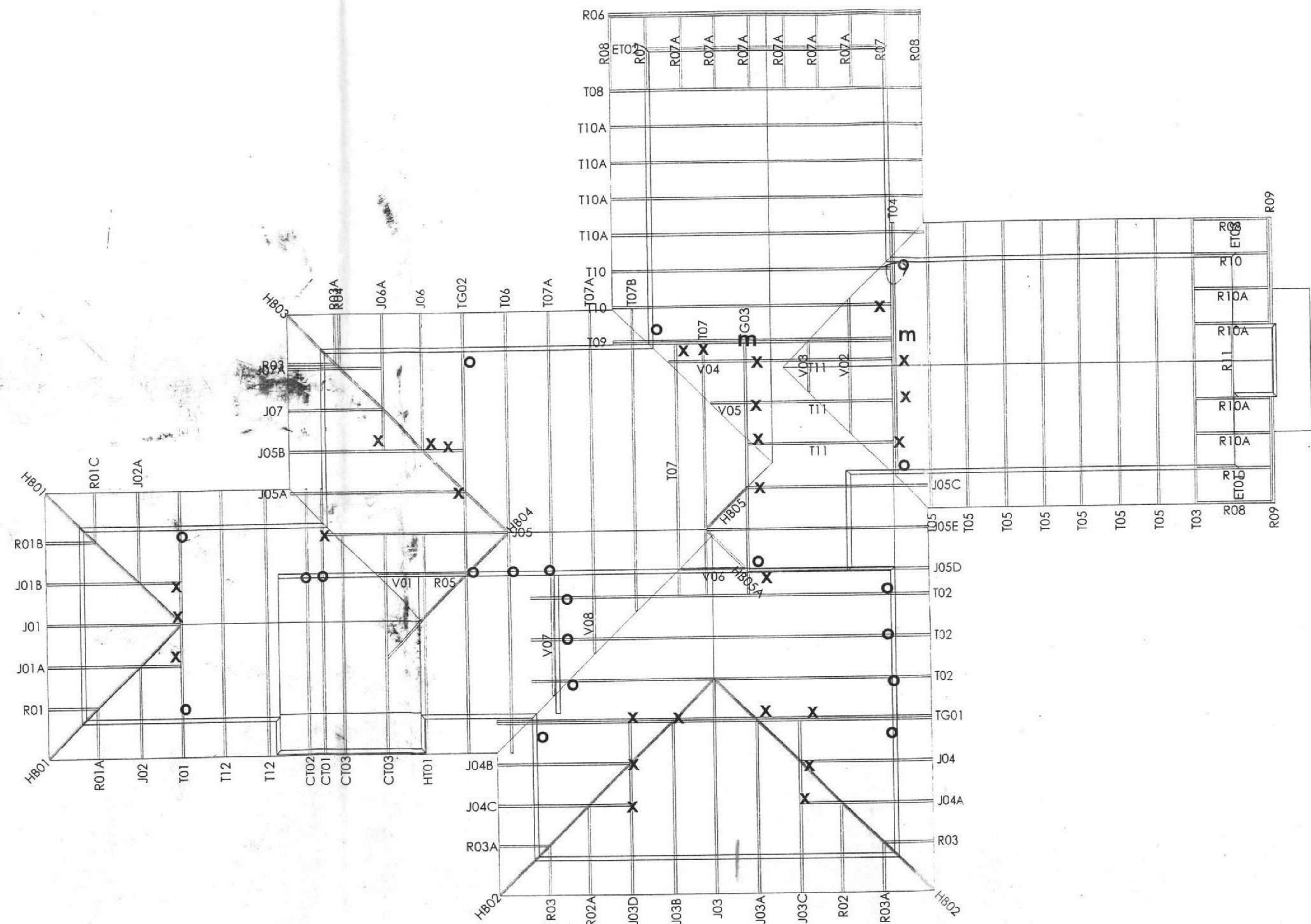
The brace must be located such that it forms an angle of $45^\circ \pm 5^\circ$ to the wall



NOTES:

All other areas must have at the minimum
2/ 90x3.15mm skew nails + 2 wire dogs
for truss to top plate connections.

Refer to:
LUMBERLOK Timber Connectors Characteristic
Loadings Data brochure 03/4



FACTORY
320 High Street
Solihull
MASTERTON
Phone: (06) 370 1390
Fax: (06) 370 1395
Email: info@capitalprecut.co.uk

POSTAL ADDRESS
PO BOX 112
CARTERTON
5742
Email: info@capitalprecut.co.uk

Site Address :
Coates
Lot 5,
Kotakare Cres
New Plymouth

Sheet Title :
**For Building Consent
Truss Fixings & Roof Bracing**

Date : 20 Nov, 2012
Scale : 1: 100
Drawn : Administrator
System : MiTek 20/20

Job Details:
Roof Pitch : 20.00deg
Roof Material : Light
Ceiling Material : Rondo on clips
Wind Zone : High
Roof Snow Load : 0.000kPa

Truss Centres : 900mm
Roof Live Load : 0.250kPa
Floor Live Load :
Wind Speed : 44m/s
Overhang : 750mm



PrimeCad v4.6.6.138

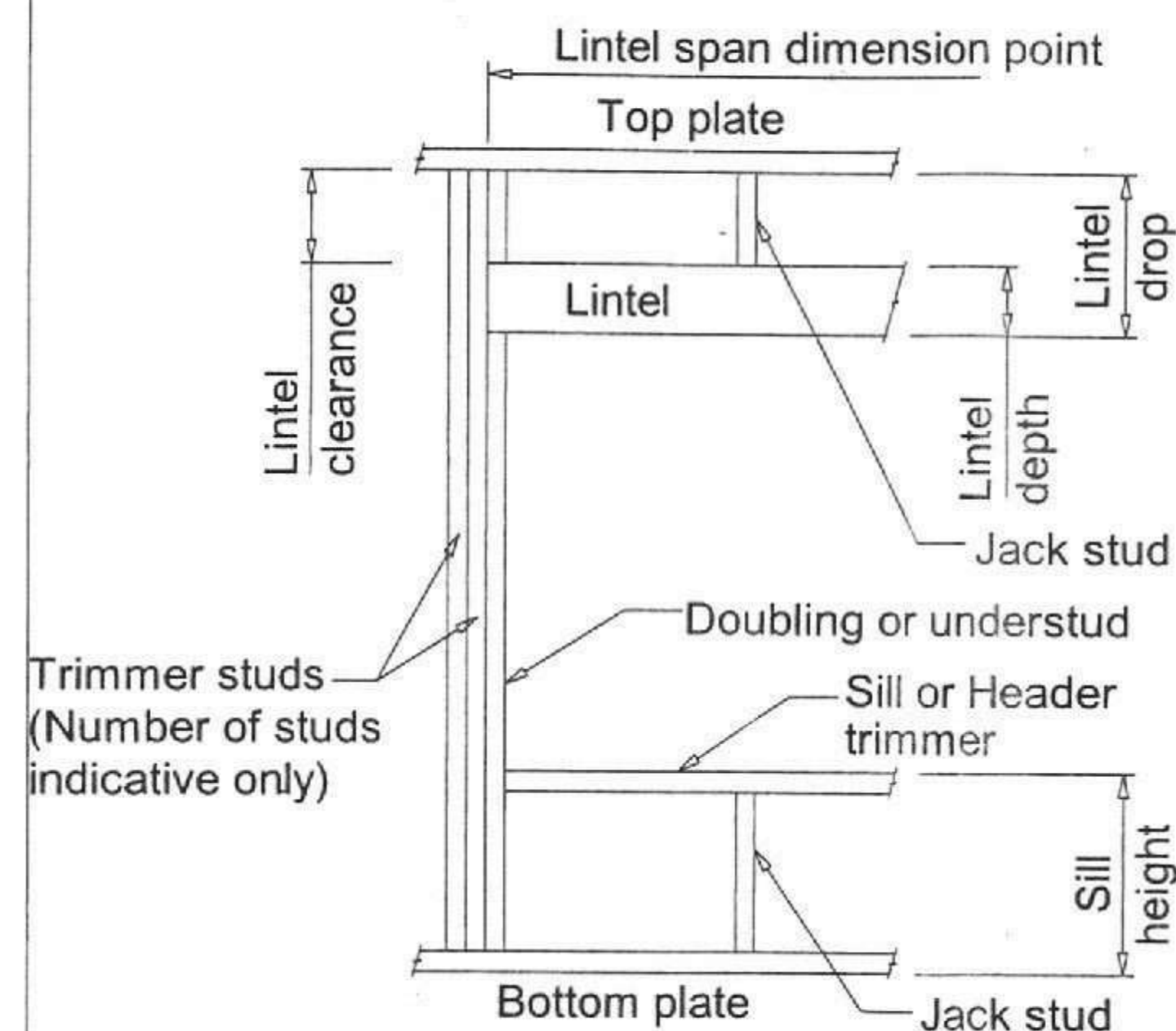
Job Title :
02699

Sheet :
3
Revision Number :

LINTEL FIXING SCHEDULE ALTERNATIVE TO TABLE 8.14 & FIGURE 8.12 NZS 3604:1999

- ★ All fixings are designed for vertical loads only. Dead loads include the roof weight and standard ceiling weight of 0.20 kPa.
- ★ Refer to Table 8.19 NZS 3604:1999 for nailing schedule to resist horizontal loads.
- ★ These fixings assume the correct choice of rafter/truss to top plate connections have been made.
- ★ All fixings assume bottom plate thickness of 45mm maximum. Note: TYLOK options on timber species.
- ★ Wall framing arrangements under girder trusses are not covered in this schedule.
- ★ All timber selections are as per NZS 3604:1999

DEFINITIONS



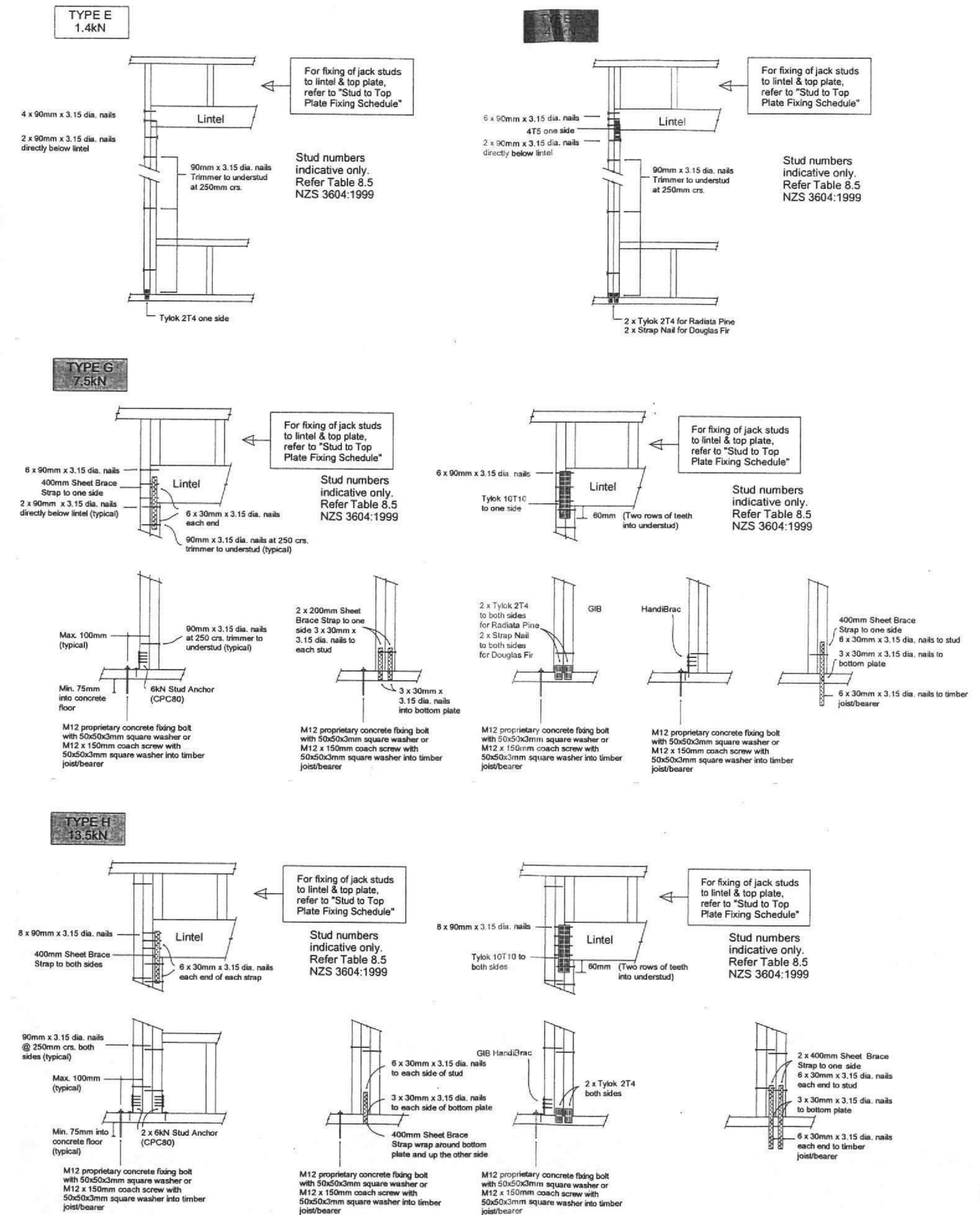
SELECTION CHART FOR LINTEL FIXING

Lintel Span	Loaded Dimension (See Fig. 1.3 NZS 3604:1999)	Light Roof				Heavy Roof			
		Wind Zone				Wind Zone			
		L	M	H	VH	L	M	H	VH
1.5	2.0	F	F	F	F	F	F	F	F
	3.0	F	F	F	F	F	F	F	F
	4.0	F	F	F	F	F	F	F	F
	5.0	F	F	F	F	F	F	F	F
	6.0	F	F	F	F	F	F	F	F
2.0	2.0	F	F	F	F	F	F	F	F
	3.0	F	F	F	F	F	F	F	F
	4.0	F	F	F	F	F	F	F	F
	5.0	F	F	F	F	F	F	F	F
	6.0	F	F	F	F	F	F	F	F
2.4	2.0	F	F	F	F	F	F	F	F
	3.0	F	F	F	F	F	F	F	F
	4.0	F	F	F	F	F	F	F	F
	5.0	F	F	F	F	F	F	F	F
	6.0	F	F	F	F	F	F	F	F
3.0	2.0	F	F	F	F	F	F	F	F
	3.0	F	F	F	F	F	F	F	F
	4.0	F	F	F	F	F	F	F	F
	5.0	F	F	F	F	F	F	F	F
	6.0	F	F	F	F	F	F	F	F
3.6	2.0	F	F	F	F	F	F	F	F
	3.0	F	F	F	F	F	F	F	F
	4.0	F	F	F	F	F	F	F	F
	5.0	F	F	F	F	F	F	F	F
	6.0	F	F	F	F	F	F	F	F
4.2	2.0	F	F	F	F	F	F	F	F
	3.0	F	F	F	F	F	F	F	F
	4.0	F	F	F	F	F	F	F	F
	5.0	F	F	F	F	F	F	F	F
	6.0	F	F	F	F	F	F	F	F
4.8	2.0	F	F	F	F	F	F	F	F
	3.0	F	F	F	F	F	F	F	F
	4.0	F	F	F	F	F	F	F	F
	5.0	F	F	F	F	F	F	F	F
	6.0	F	F	F	F	F	F	F	F

NOTES:

Lintels supporting girder trusses for ALL load cases use:
Fixing Type G where contributory area = 10m²
Fixing Type H where contributory area = 20m²
All cases outside this require specific design.

LINTEL FIXING OPTIONS





Tse Taranaki & Associates Limited
STRUCTURAL AND CIVIL ENGINEERS - PROJECT MANAGERS

03 September 2012

3964/030

Bland and Jackson Surveyors Limited
P O Box 637
Taranaki Mail Centre
NEW PLYMOUTH 4340

Attention: Mr Geoff Bland

Dear Sir,

RE: LAKEVIEW ESTATE STAGE 13-2A ROTOKARE CRESCENT EXTENSION, NEW PLYMOUTH

1.0 Scope

Tse Taranaki & Associates Limited have been employed by Bland and Jackson Surveyors Limited to provide quality control for the placement of certified fill across the Lots 2, 5, 15, 20 to 24 and 29 and fill to the earth retaining wall to lot 29. Also to provide a preliminary engineering assessment for obtaining consent for the proposed subdivision.

2.0 Earthworks

The subgrade was cut level and benched and tested prior to filling. Fill was clean clay silt placed in level layers not exceeding 150mm loose. The fill was compacted using rubber tyred tractors, trailers and loaded trucks. The moisture and consistency of the fill was monitored to ensure even compaction.

Refer Bland and Jackson Drawings Titled Lakeview Estate Stage 13-2a Rotokare Crescent extension Cut Fill Contours Project 6501 Sheet 6 of 6 Dated 30 August 2012.

3.0 Soil Testing

Borehole and Scala Penetrometer tests were performed across the site prior to placing fill. Shear Vane Tests were performed at 300mm - 500mm height intervals during filling. Opus International Consultants Limited visited the site on 30 August 2012 and performed an additional eleven Scala Penetrometers across the subdivision. Refer attached soil test results.

3.1 Subgrade Proof Tests

Scala Penetrometer tests were performed across the subgrade to the fill area prior to the cut to fill operation. Test results indicated localised area of soft clay silt/topsoil which were subsequently excavated and replaced with a clean compacted clay silt in level layers up to finished grade.

3.2 Undrained Shear Strength

A series of Shear Vane tests were performed across the fill to Lots 2, 5, 15, 20 to 24 and 29 from November 2011 to May 2012.

The results confirmed that compaction had been achieved to at least 98% of maximum dry density. The undrained shear strength results in excess of 120 kPa were also achieved. Any substandard results resulted in the soft material being reworked and tested until an acceptable compaction was obtained.

3.3 Scala Penetrometer Tests

The soil tests performed on 30 August 2012 indicted nil to 300mm of topsoil over a medium - firm clay silt. At a depth of 1.1m the clay silt became firm steadily improving with depth and indicated high undrained shear strengths.

At test number 8 and 11, on lot 24 and 29 a soft 0.8 – 1.2m top layer was encountered. At greater depths the strength steadily improved. Additional soil tests should be completed once the building platform locations are confirmed.

During the laying of stormwater drains across the subdivision a rusty orange plastic clay silt was typically observed in all trenches.

4.0 Building Platform

We consider that suitable building sites are available on all lots and standard house foundations in accordance with NZS3604 can be used. Foundations should extend a minimum of 300mm into the medium to firm volcanic ash layer. We recommend that foundation loads should not exceed a safe bearing pressure of 100 KPa.

The limitations of NZS3604 should be adhered to in relation to foundations in close proximity to the steep bank and earth retaining wall along the eastern boundary to lots 11, 12, 28 and 29 and drainage easements.

5.0 Stormwater Disposal

No specific tests were performed to determine percolation rates, but in our opinion stormwater to standard Taranaki soakholes will be suitable. The layout, size and number of soakholes should be approved by a suitably qualified Engineer. Stormwater during extreme conditions will discharge on to Rotokare Crescent and via Lot 29. Soakholes should not be located closer than 20m to steep banks or the earth retaining wall on lot 29. Soakholes should not be located within 3m of a building foundation.

6.0 Limitation

The geotechnical opinions and recommendations which are contained in this report are based on the site conditions as they presently exist and further assume that the exploratory holes are representative of subsurface conditions throughout the site i.e. inferences about the nature and continuity of ground conditions away from the bore holes have been made in the preparation of this report. It is assumed that subsurface conditions everywhere are not significantly different from those disclosed by the investigation.

We should be notified of any subsurface conditions, which appear to be different from those as disclosed by this investigation so that these conditions may be reviewed, and our recommendation reconsidered where necessary.

The above site investigation did not include site inspection for chemical contamination of subsoil.

Building designers should consider the type of building proposed and determine if further soil investigations are required. It is recommend that a supplementary soils investigation which is specific to the proposed building location and foundation loadings be undertaken during the design stage of the building development. Confirm with a suitably qualified person the soil bearing capacity is sufficient for the proposed building.

Yours Faithfully

Tse Taranaki & Associates Limited

A handwritten signature in black ink, appearing to read 'F. Kerslake', written over a horizontal line.

FRANK KERSLAKE

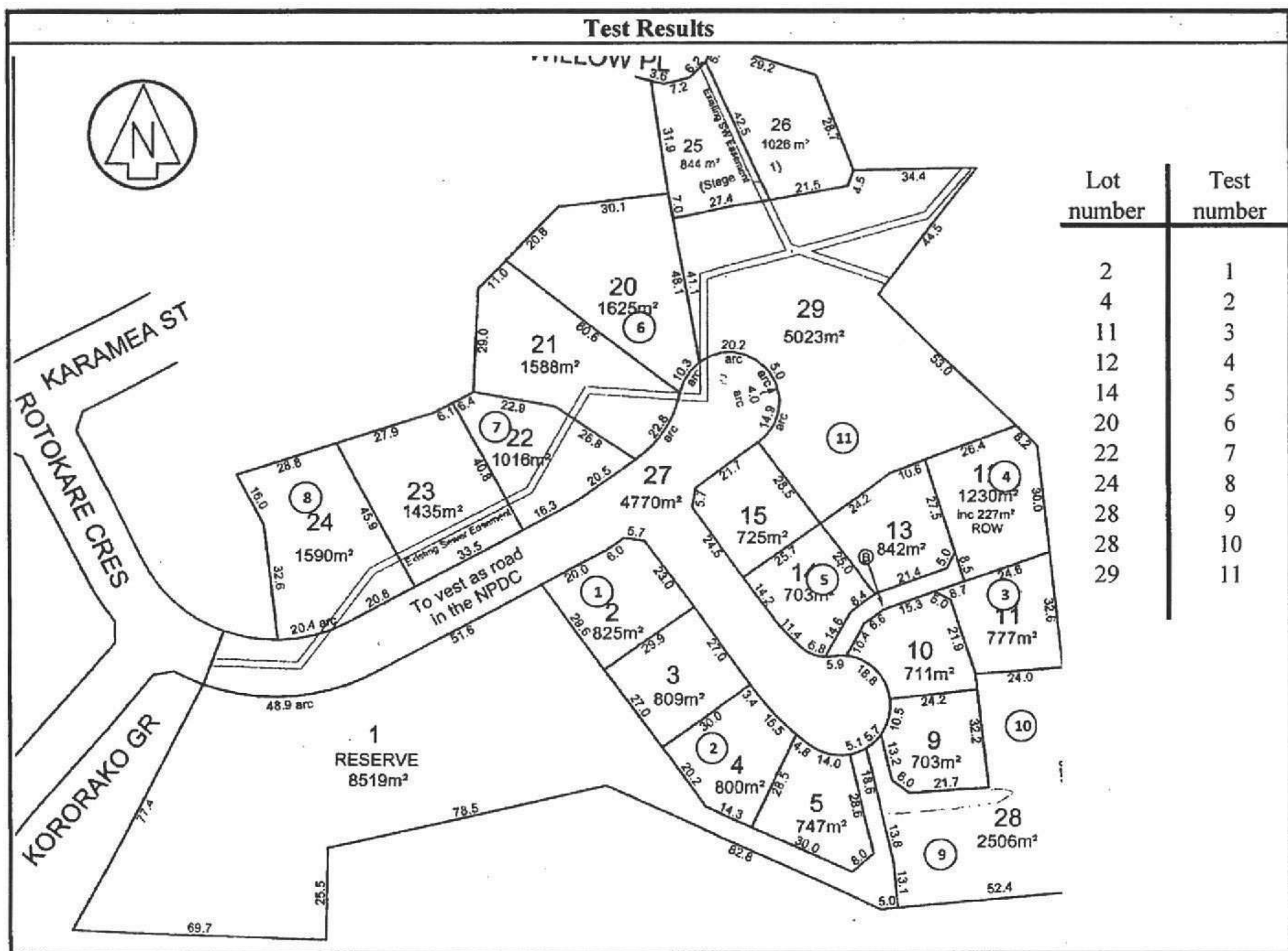
06 758 8390

TEST REPORT

Project : Lakeview Estate
Location : Rotokare Crescent, New Plymouth
Client : Tse Taranaki Ltd, PO Box 237, New Plymouth
Attention : Frank Kerslake
Sampled by : M.Richardson
Date sampled : 30/08/12
Sampling method : Scala Penetrometer and Hand Auger
Sample description : Various
Sample condition : Insitu



Project No : 5NT300.00
Lab Ref No : 12/097-12
Client Ref No : -



Date tested : 30/08/12
Date reported : 30/08/12

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Approved

Designation : Assistant Laboratory Manager
Date : 31/08/12

PF-LAB-004 (18/12/2010)

Page 1 of 12

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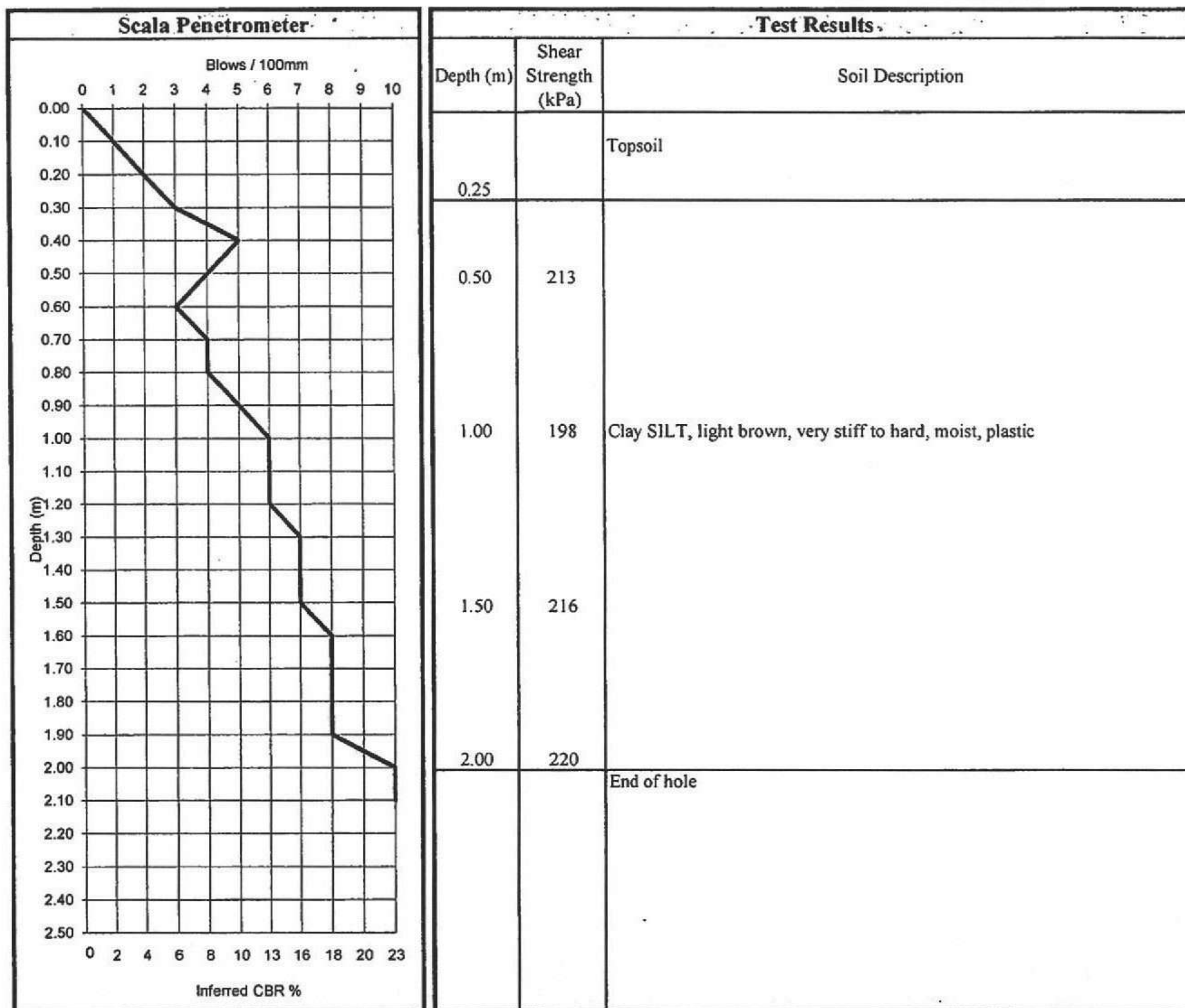
Telephone +64 6 759 8870
 Facsimile +64 6 759 8871
 Website www.opus.co.nz

AUGER / SCALA PENETROMETER TEST REPORT

Project : Lakeview Estate
Location : Lot 2, Rotokare Crescent, New Plymouth
Client : Tse Taranaki Ltd, PO Box 237, New Plymouth
Attention : Frank Kerslake
Test number : 1
Shear vane number : NPL011093
Water level (m): Not Found
Reduced level (m): GL



Project No : 5NT300.00
Lab Ref No : 12/097-12.1
Client Ref No :



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402 : 1988, Test 6.5.2
Shear Strength using a Hand Held Shear Vane: NZ Geotechnical Soc Inc 8/2001
Inferred CBR values taken from Austroads Pavement Design Manual 2004

Field Descriptions of Soils and Rocks by
NZ Geotechnical Society Dec 2005
Inferred CBR values are not IANZ accredited

Date tested : 30/08/12
Date reported : 30/08/12

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Approved

D. Chudmeja

Designation : Laboratory Manager
Date : 30/08/12

PF-LAB-061 (18/12/2010)

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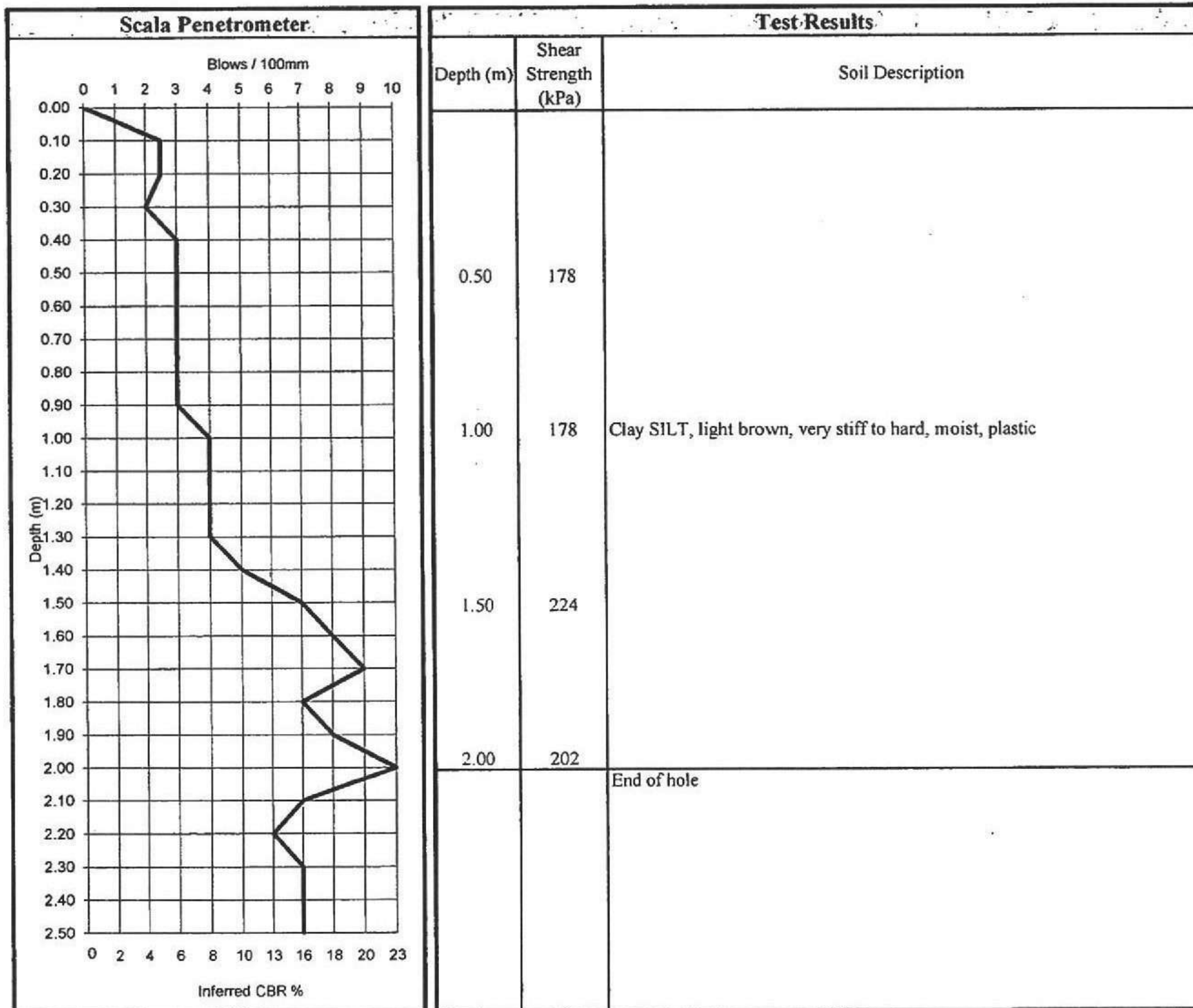
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Facsimile +64 6 759 8871
Website www.opus.co.nz

**AUGER / SCALA PENETROMETER
TEST REPORT**

Project : **Lakeview Estate**
Location : **Lot 4, Rotokare Crescent, New Plymouth**
Client : **Tse Taranaki Ltd, PO Box 237, New Plymouth**
Attention : **Frank Kerslake**
Test number : **2**
Shear vane number : **NPL011093**
Water level (m): **Not Found**
Reduced level (m): **GL**



Project No.: **5NT300.00**
Lab Ref No: **12/097-12.2**
Client Ref No: **-**



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402 : 1988, Test 6.5.2
Shear Strength using a Hand Held Shear Vane: NZ Geotechnical Soc Inc 8/2001
Inferred CBR values taken from Austroads Pavement Design Manual 2004

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Inferred CBR values are not IANZ accredited

Date tested : 30/08/12
Date reported : 30/08/12

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Approved

Designation : *N. C. Chandler*
Date : 30/08/12

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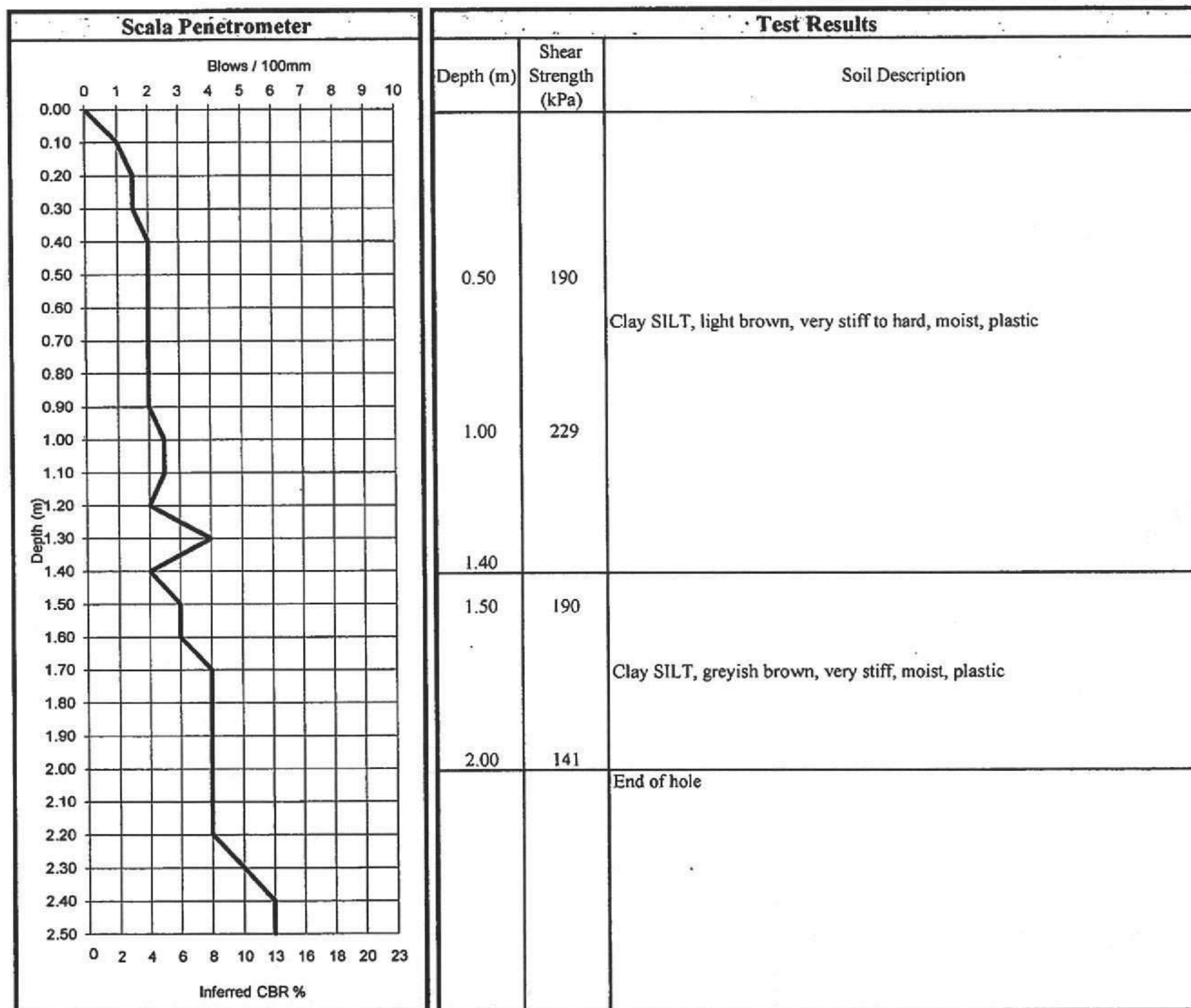
Telephone +64 6 759 8870
Facsimile +64 6 759 8871
Website www.opus.co.nz

AUGER / SCALA PENETROMETER TEST REPORT



Project : Lakeview Estate
 Location : Lot 11, Rotokare Crescent, New Plymouth
 Client : Tse Taranaki Ltd, PO Box 237, New Plymouth
 Attention : Frank Kerslake
 Test number : 3
 Shear vane number : NPL011093
 Water level (m): Not Found
 Reduced level (m): GL

Project No : 5NT300.00
 Lab Ref No : 12/097-12.3
 Client Ref No : -



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402 : 1988, Test 6.5.2
 Shear Strength using a Hand Held Shear Vane: NZ Geotechnical Soc Inc 8/2001
 Inferred CBR values taken from Austroads Pavement Design Manual 2004

Field Descriptions of Soils and Rocks by
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Date tested : 30/08/12
 Date reported : 30/08/12

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Approved

D. Chandler

Designation : Laboratory Manager
 Date : 30/08/12

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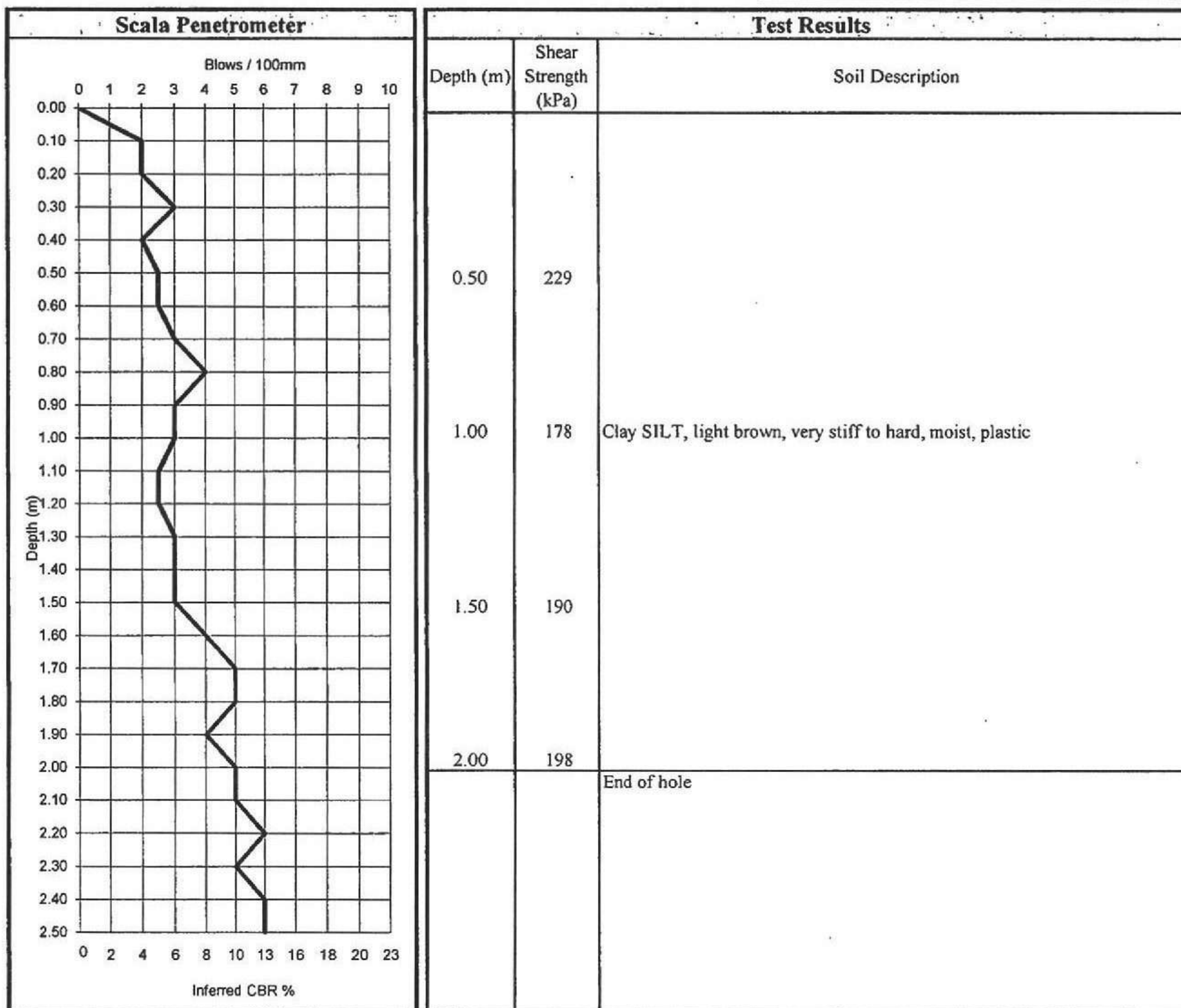
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 Website www.opus.co.nz

AUGER / SCALA PENETROMETER TEST REPORT

Project : Lakeview Estate
Location : Lot 12, Rotokare Crescent, New Plymouth
Client : Tse Taranaki Ltd, PO Box 237, New Plymouth
Attention : Frank Kerslake
Test number : 4
Shear vane number : NPL011093
Water level (m): Not Found
Reduced level (m): GL



Project No : 5NT300.00
Lab Ref No : 12/097-12.4
Client Ref No : -



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402 : 1988, Test 6.5.2
Shear Strength using a Hand Held Shear Vane: NZ Geotechnical Soc Inc 8/2001
Inferred CBR values taken from Austroads Pavement Design Manual 2004

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Date tested : 30/08/12
Date reported : 30/08/12

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Designation : *D. Chm. Manager*
Date : 30/08/12

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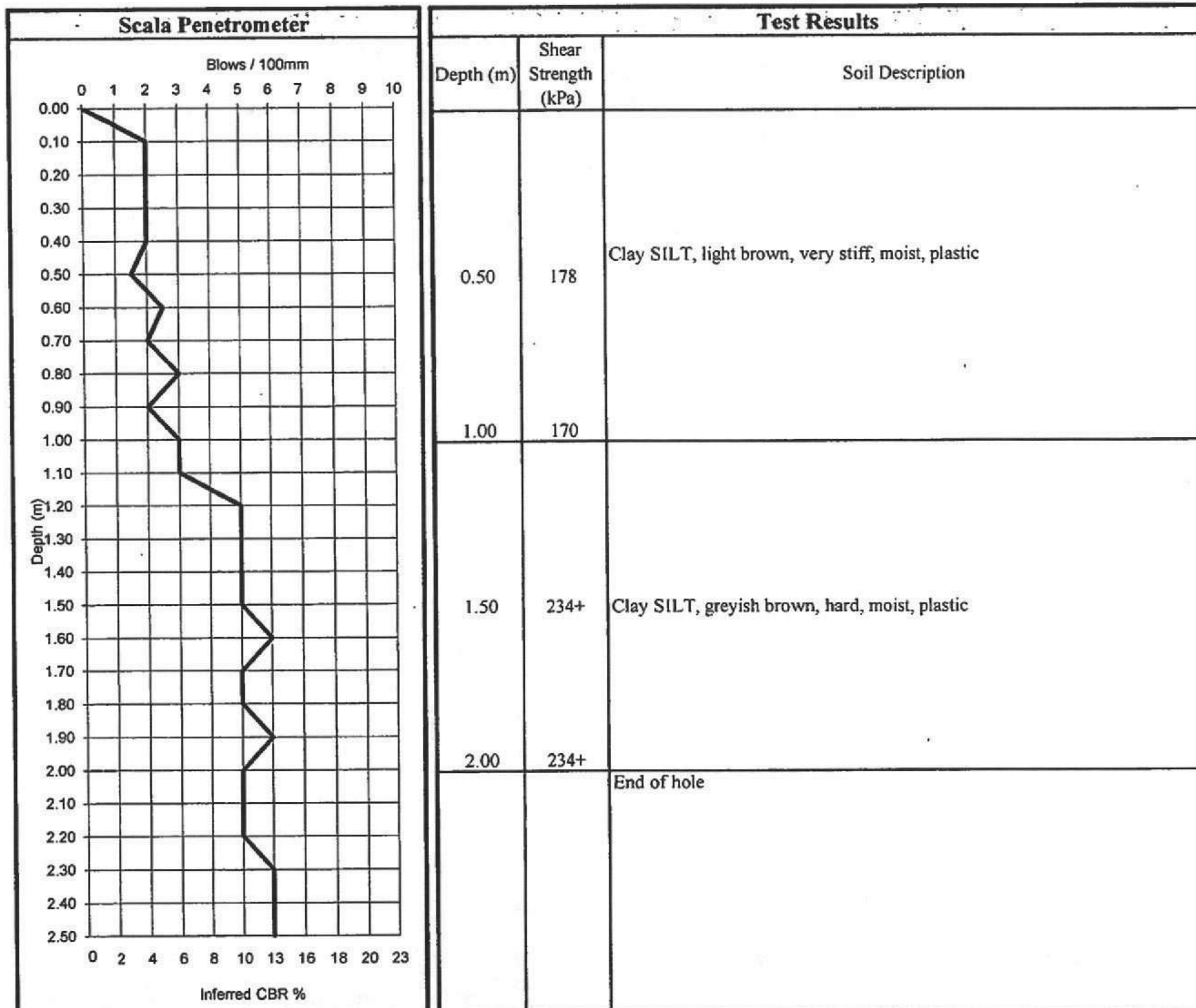
Telephone +64 6 759 8870
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AUGER / SCALA PENETROMETER TEST REPORT

Project : Lakeview Estate
Location : Lot 14, Rotokare Crescent, New Plymouth
Client : Tse Taranaki Ltd, PO Box 237, New Plymouth
Attention : Frank Kerslake
Test number : 5
Shear vane number : NPL011093
Water level (m): Not Found
Reduced level (m): GL



Project No : 5NT300.00
Lab Ref No : 12/097-12.5
Client Ref No : -



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402 : 1988, Test 6.5.2
Shear Strength using a Hand Held Shear Vane: NZ Geotechnical Soc Inc 8/2001
Inferred CBR values taken from Austroads Pavement Design Manual 2004

Field Descriptions of Soils and Rocks by
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Date tested : 30/08/12
Date reported : 30/08/12

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D. Chumley

Designation : Laboratory Manager
Date : 30/08/12

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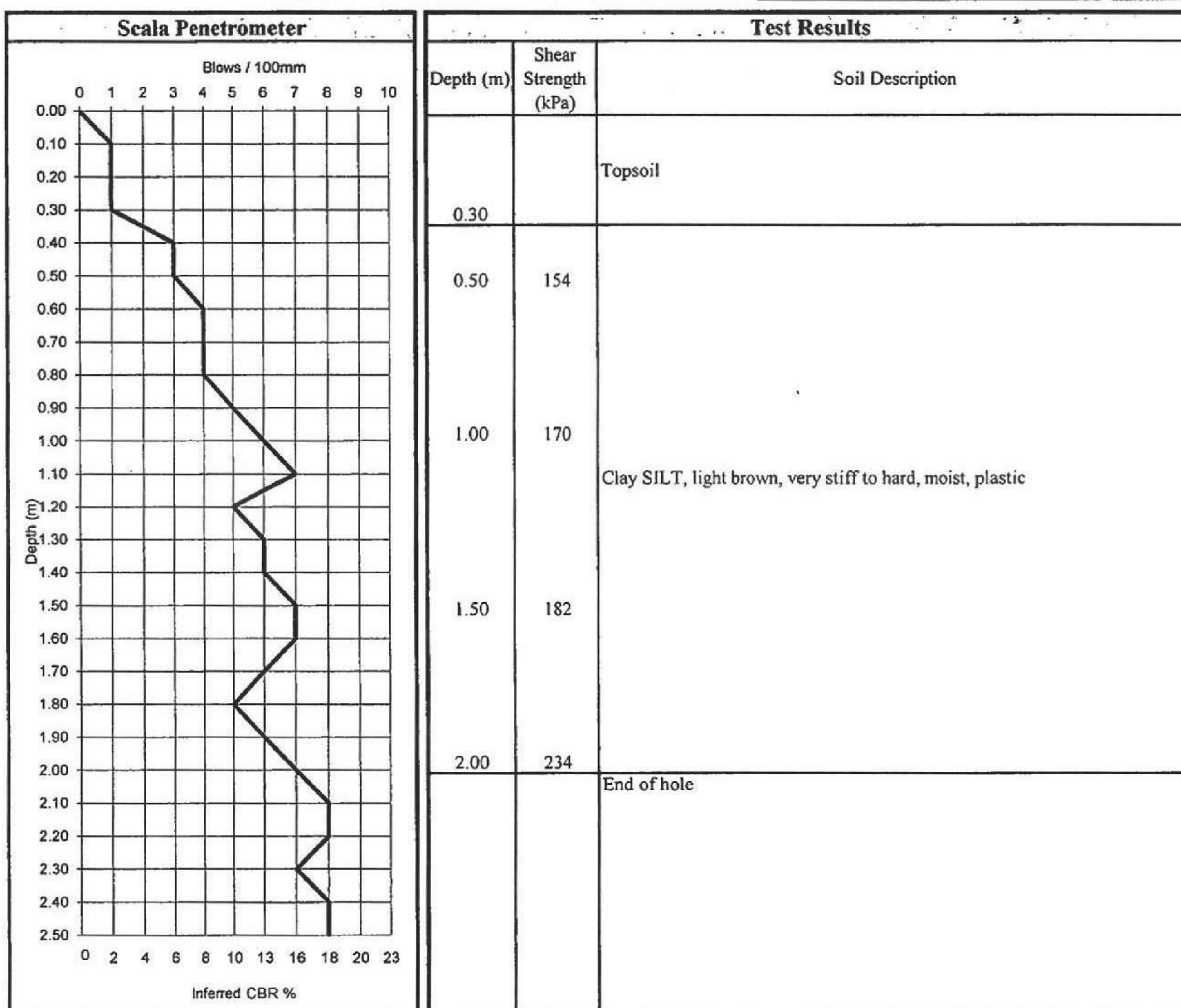
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AUGER / SCALA PENETROMETER TEST REPORT

Project : Lakeview Estate
Location : Lot 22, Rotokare Crescent, New Plymouth
Client : Tse Taranaki Ltd, PO Box 237, New Plymouth
Attention : Frank Kerslake
Test number : 6
Shear vane number : NPL011093
Water level (m): Not Found
Reduced level (m): GL



Project No : 5NT300.00
Lab Ref No : 12/097-12.6
Client Ref No :



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402 : 1988, Test 6.5.2
Shear Strength using a Hand Held Shear Vane: NZ Geotechnical Soc Inc 8/2001
Inferred CBR values taken from Austroads Pavement Design Manual 2004

Field Descriptions of Soils and Rocks by
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Designation : *P. Chapple*
Date : 31/08/12

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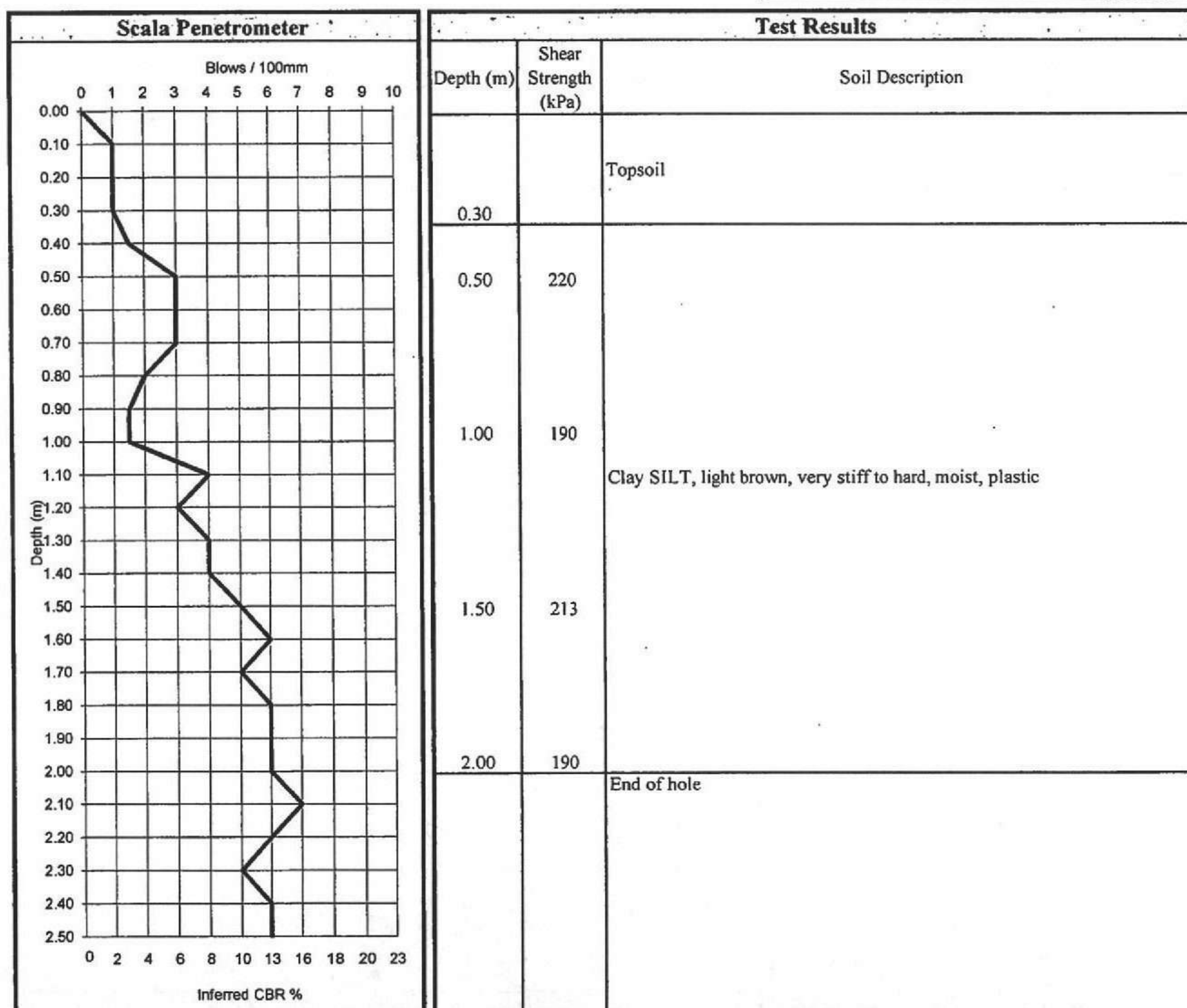
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Facsimile +64 6 759 8871
Website www.opus.co.nz

AUGER / SCALA PENETROMETER TEST REPORT

Project : Lakeview Estate
 Location : Lot 22, Rotokare Crescent, New Plymouth
 Client : Tse Taranaki Ltd, PO Box 237, New Plymouth
 Attention : Frank Kerslake
 Test number : 7
 Shear vane number : NPL011093
 Water level (m): Not Found
 Reduced level (m): GL



Project No : 5NT300.00
 Lab Ref No : 12/097-12.7
 Client Ref No : -



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402 : 1988, Test 6.5.2
 Shear Strength using a Hand Held Shear Vane: NZ Geotechnical Soc Inc 8/2001
 Inferred CBR values taken from Austroads Pavement Design Manual 2004

Field Descriptions of Soils and Rocks by
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 Inferred CBR values are not IANZ accredited

Date tested : 30/08/12
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Designation : *D. Chm. Merg*
 Date : 30/08/12

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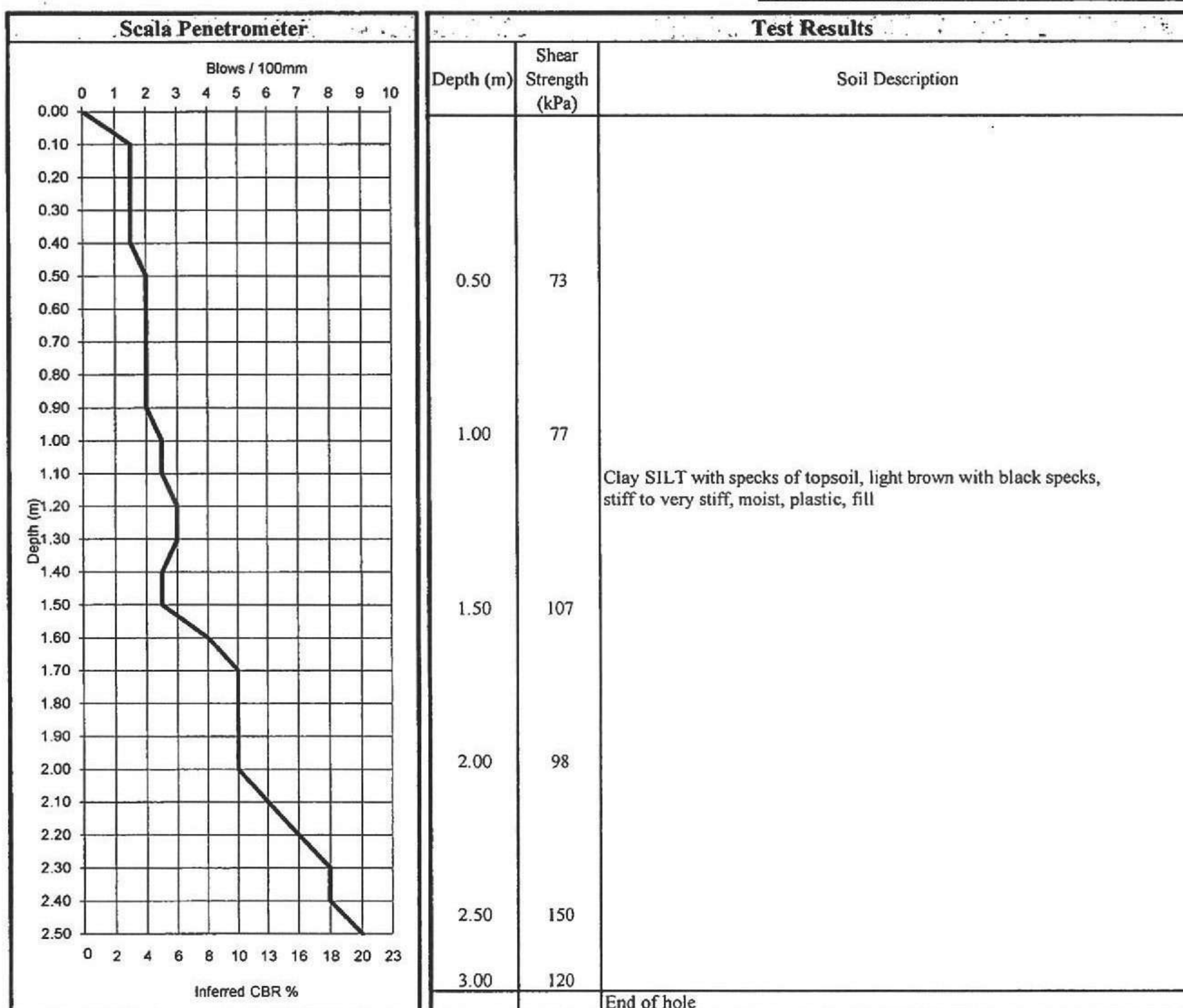
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 Website www.opus.co.nz

AUGER / SCALA PENETROMETER TEST REPORT

Project : Lakeview Estate
 Location : Lot 24, Rotokare Crescent, New Plymouth
 Client : Tse Taranaki Ltd, PO Box 237, New Plymouth
 Attention : Frank Kerslake
 Test number : 8
 Shear vane number : NPL011093
 Water level (m): Not Found
 Reduced level (m): GL



Project No : 5NT300.00
 Lab Ref No : 12/097-12.8
 Client Ref No : -



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402 : 1988, Test 6.5.2
 Shear Strength using a Hand Held Shear Vane: NZ Geotechnical Soc Inc 8/2001
 Inferred CBR values taken from Austroads Pavement Design Manual 2004

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 Inferred CBR values are not IANZ accredited

Date tested : 30/08/12
 Date reported : 30/08/12

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D. Chandler

Designation : Laboratory Manager
 Date : 30/08/12

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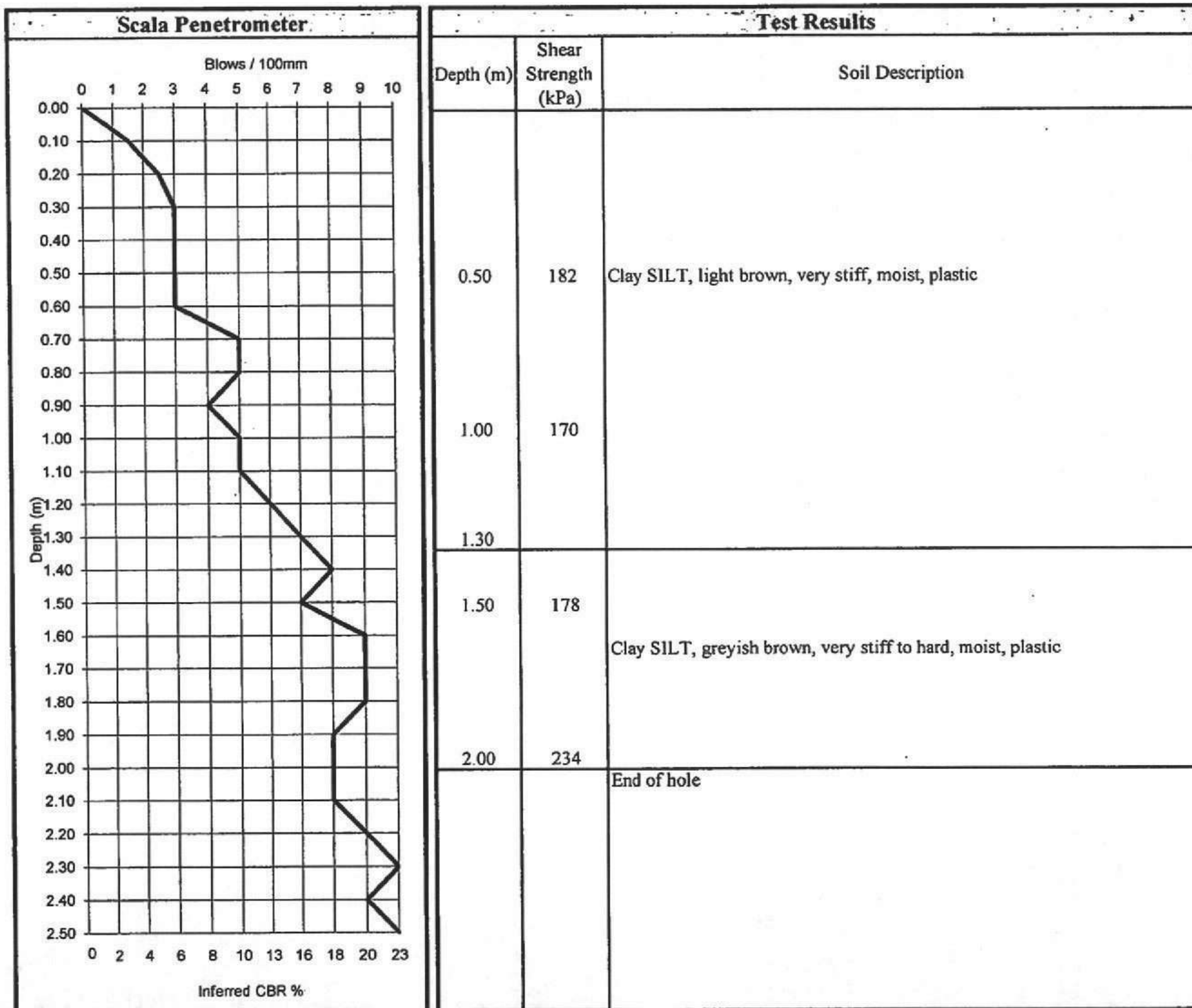
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 Facsimile +64 6 759 8871
 Website www.opus.co.nz

AUGER / SCALA PENETROMETER TEST REPORT

Project : **Lakeview Estate**
 Location : **Lot 28A, Rotokare Crescent, New Plymouth**
 Client : **Tse Taranaki Ltd, PO Box 237, New Plymouth**
 Attention : **Frank Kerslake**
 Test number : **9**
 Shear vane number : **NPL011093**
 Water level (m): **Not Found**
 Reduced level (m): **GL**



Project No : **5NT300.00**
 Lab Ref No : **12/097-12.9**
 Client Ref No : **-**



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402 : 1988, Test 6.5.2
 Shear Strength using a Hand Held Shear Vane: NZ Geotechnical Soc Inc 8/2001
 Inferred CBR values taken from Austroads Pavement Design Manual 2004

Field Descriptions of Soils and Rocks by
 NZ Geotechnical Society Dec 2005
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Date tested : 30/08/12
 Date reported : 30/08/12

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Approved

D. Chmielewski

Designation : *Laboratory Manager*
 Date : 30/08/12

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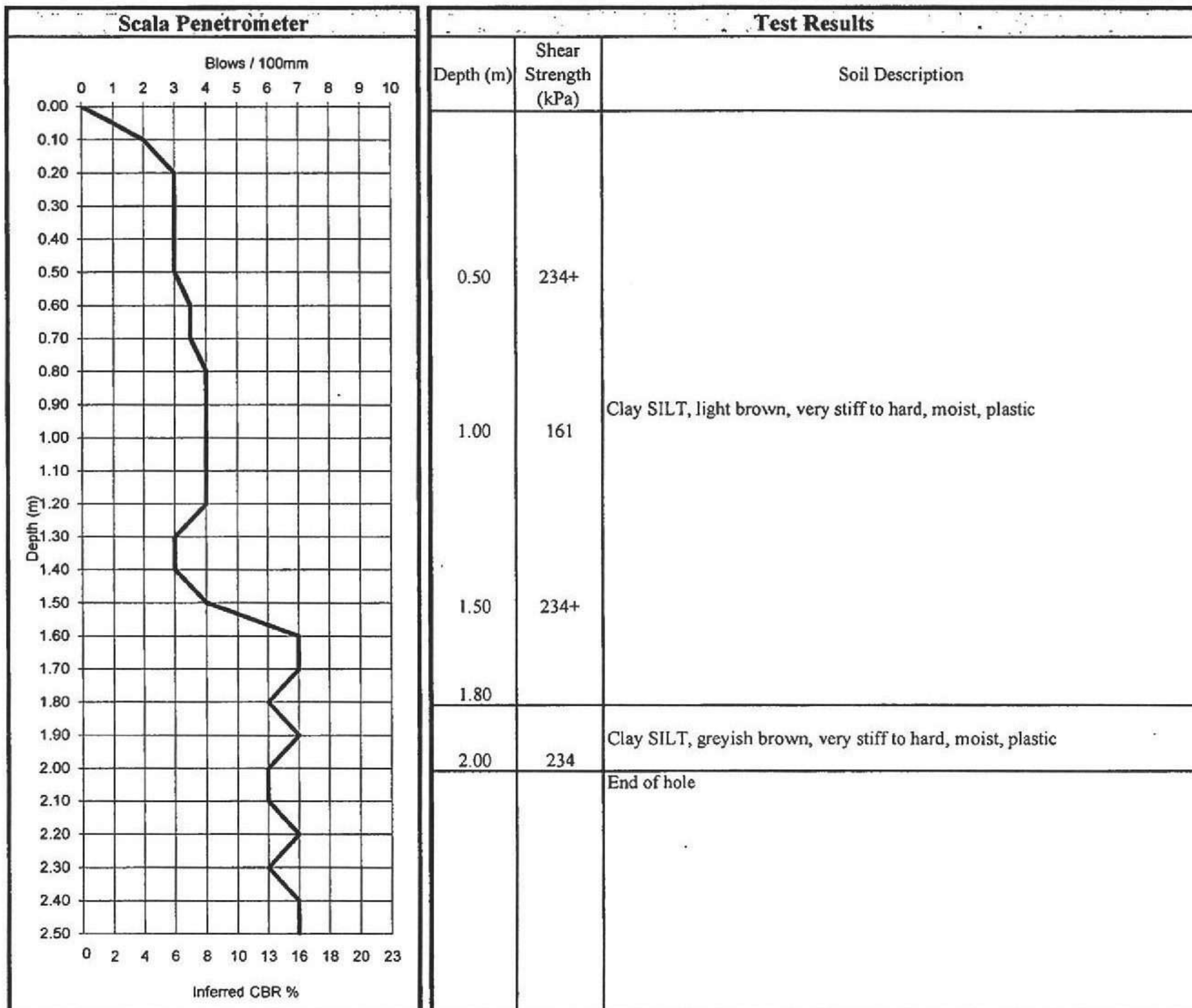
Telephone +64 6 759 8870
 Facsimile +64 6 759 8871
 Website www.opus.co.nz

AUGER / SCALA PENETROMETER TEST REPORT

Project : Lakeview Estate
Location : Lot 28B, Rotokare Crescent, New Plymouth
Client : Tse Taranaki Ltd, PO Box 237, New Plymouth
Attention : Frank Kerslake
Test number : 10
Shear vane number : NPL011093
Water level (m): Not Found
Reduced level (m): GL



Project No : 5NT300.00
Lab Ref No : 12/097-12.10
Client Ref No : -



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402 : 1988, Test 6.5.2
Shear Strength using a Hand Held Shear Vane: NZ Geotechnical Soc Inc 8/2001
Inferred CBR values taken from Austroads Pavement Design Manual 2004

Field Descriptions of Soils and Rocks by
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Date tested : 30/08/12
Date reported : 30/08/12

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D. Chudleigh

Designation : Laboratory Manager
Date : 30/08/12

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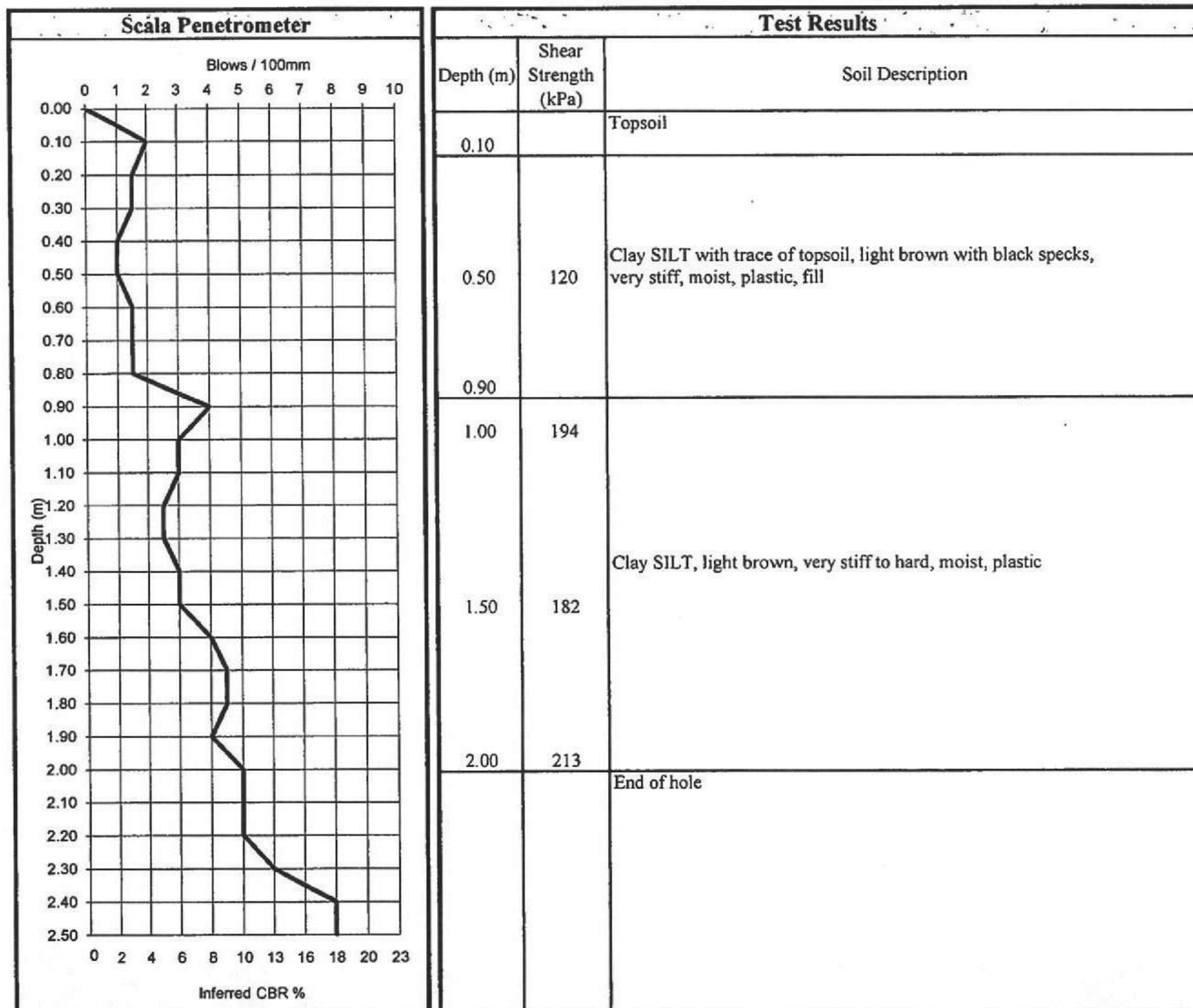
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Facsimile +64 6 759 8871
Website www.opus.co.nz

**AUGER / SCALA PENETROMETER
TEST REPORT**

Project : Lakeview Estate
Location : Lot 29, Rotokare Crescent, New Plymouth
Client : Tse Taranaki Ltd, PO Box 237, New Plymouth
Attention : Frank Kerslake
Test number : 11
Shear vane number : NPL011093
Water level (m): Not Found
Reduced level (m): GL



Project No : 5NT300.00
Lab Ref No : 12/097-12.11
Client Ref No : -



Test Methods

Determination of Penetration Resistance of a Soil, NZS 4402 : 1988, Test 6.5.2
Shear Strength using a Hand Held Shear Vane: NZ Geotechnical Soc Inc 8/2001
Inferred CBR values taken from Austroads Pavement Design Manual 2004

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Date tested : 30/08/12

Date reported : 30/08/12

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Approved

Designation : Laboratory Manager

Date : 30/08/12

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Coates - H1 Calculation Method **Non-Solid Reference Building.**

Component	Description	Area	R-value	Heat Loss	Heat Loss = Area/R-value
Roof		218	3.1	70.3	
Wall 1		70.18	2	35.1	
Wall 2		72.68	2.4	30.3	
Floor		218	1.3	167.7	
Glazing (30%)		57.53	0.26	221.3	
Glazing (>30%)			0.31		Total Loss
					524.7

Set wall area as either 70% of total wall area, or actual wall area, whichever is **lower**

Set glazing area as either 30% of total wall area, or actual window area, whichever is **higher**

Total area of glazing (including skylights) must be $\leq 50\%$ of the total wall area

An R-value of 0.26 may be used for traditional leadlight glass if the total area is $\leq 2.6 \text{ m}^2$

Non-glazed areas of door openings greater than 3 m^2 are treated as wall.

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Proposed Design: Coates New Plymouth

NPDC Approved
31 OCT 2012

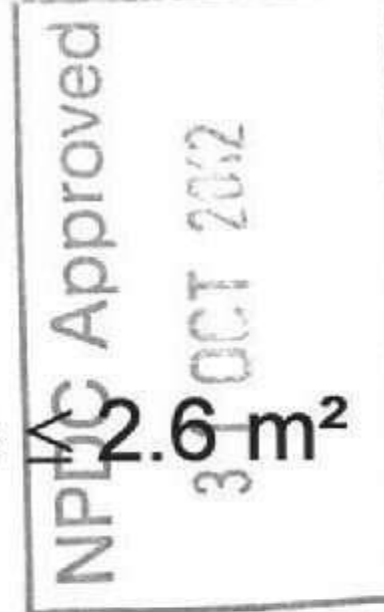
Component	Description	Area	R-value	Heat Loss	Heat Loss = Area / R-value
Roof 1	20 deg pitched roof with Colorsteel Longrun roofing	218	3.1	70.3	
	on trusses @ 900 crs with R3.2 Pink Batts				
Wall 1	Eps 40 on cavity 90x45 studs @ 600 crs & dwangs	72.68	2.4	30.3	
	800crs with R2.2 Pink Batts				
Wall 2	Fibre cement w/board 90x45 studs	70.16	2	35.1	
	at 600 crs and dwangs @ 800crs with R2.2 Pink Batts				
Floor 1	Concrete slab using cupolex pod system	218	2.4	90.8	
Glazing 1	R0.26 Nulook aluminium frame IGU clear glass	48.93	0.26	188.2	
					Total Loss
					414.7

R-values must be no less than 60% of the R-value of the corresponding Schedule values

Total area of glazing (including skylights) must be $\leq 50\%$ of the total wall area

Non-glazed areas of door openings greater than 3 m² are treated as wall.

An R-value of 0.26 may be used for traditional leadlight glass if the total area is $\leq 2.6 \text{ m}^2$
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MiTek New Zealand Limited

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

CHRISTCHURCH
14 Pilkington Way, Wigram 8042
PO Box 8387, Riccarton 8440
Phone: 03 348 8691
Fax: 03 348 0314

MiTek 20/20 Engineering 4.6.6.138

www.mitek.nz.co.nz

Printed: 07:42:37 08 Aug 2012

PRODUCER STATEMENT for MiTek 20/20[®] TRUSS DESIGN - Version 4.6

ISSUED BY: **MiTek New Zealand Limited**

TO: **Capital Precut Solutions**

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 **103093** 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

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: Wednesday, 8 August 2012

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

NPDC Approved
31 OCT 2012

Capital Precut Solutions

Fabricator Design Statement : Page 1

Job: 103093

Client: Cavalier Homes New Plymouth
Phone:

Site: Coates House
Rotokere Street
New Plymouth

Description:
Building Consent No.:
MITek 20/20 Engineering 4.6.6.138

MITek New Zealand Limited

Phone:

Printed: 07:42:37 08 Aug 2012

MITEK FABRICATOR DESIGN STATEMENT

This statement is issued by MITek accredited fabricator **Capital Precut Solutions**, 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

Roof Truss

Timber Group: TRUSS
Roof
Material: Light
Dead Load: 0.250 kPa
Restraints: 900 mm centres
Live Load: Q_{ur} = 0.250 kPa
Q_c = 1.100 kN

Importance Level : 2

Pitch: 20.000 deg
Ceiling
Material: Rondo on clips
Dead Load: 0.200 kPa
Restraints: 1200 mm centres
Live Load: Q_c = 1.400 kN

Design Working Life : 50 years

Nominal Overhang: 750 mm
Wind
Area: High (44.0 m/s)
Pressure Coeff: C_{pe} = varies; C_{pi} = -0.30, 0.20

The timber for these MITek® trusses shall be treated to the requirements of NZS 3602:2003 and shall be graded to the requirements of NZS 3603:1993. Unless otherwise noted, this design assumes that the steel fixings and timber connectors proposed are located in a "closed environment", as defined by NZS3604:2011 Section 4.

MITek® Truss List

Legend: * = detail only, ? = input only, ~~xxx~~ = 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)
CT01	1	4990	20.000	900	J05	1	2112	20.000	900	T12B	1	7238	20.000	756
T01	1D	7780	20.000	900	J05A	1	2112	20.000	900	V01	1	2970	20.000	900
T02	1D	4680	20.000	900	J05B	1	2112	20.000	900	V03	1	2178	20.000	900
T06	1	4270	20.000	900	J06	1	1212	20.000	900	V04	1	1278	20.000	900
T08	1	8050	20.000	900	J06A	1	1212	20.000	900	V06	1	1735	20.000	900
T10	1D	5180	20.000	900	J07	1	2545	20.000	900	V07	1	835	20.000	900
T13	1	8050	20.000	900	J07A	1	2545	20.000	900	V08	1	1190	20.000	900
TG01	1	7780	20.000	900	J07B	1	2545	20.000	900	*HB01	2	6530	14.433	900
TG02	1	7237	20.000	900	J07C	1	2545	20.000	900	*HB02	2	4048	14.433	900
TG03	1	8050	20.000	900	J07D	1	2545	20.000	900	*HB03	2	1998	14.433	900
TR01	1	7237	20.000	900	J07E	1	2545	20.000	900	*HB04	1	2634	14.433	900
TR02	1	8050	20.000	900	J07F	1	2545	20.000	900	*HB05	1	6721	14.433	900
TR03	1	8050	20.000	900	J07G	1	2545	20.000	900	*R01	1	1118	20.000	900
CT02	1	4990	20.000	900	J08	1	2095	20.000	900	*R01A	1	1118	20.000	900
CT03	2	2815	20.000	713	J08B	1	2095	20.000	900	*R02	3	1063	20.000	900
ET01	1	4680	20.000	818	J08C	1	2095	20.000	900	*R02A	3	1063	20.000	900
ET02	1	5180	20.000	758	J08D	1	2095	20.000	900	*R03	1	1075	20.000	900
J01	1	3913	20.000	900	J08E	1	2095	20.000	900	*R03A	1	1075	20.000	900
J02	1	3055	20.000	900	J08F	1	2095	20.000	900	*R03B	1	1075	20.000	900
J02A	1	3055	20.000	900	J08G	1	2095	20.000	900	*R03C	1	1075	20.000	900
J02B	1	3055	20.000	900	J09	1	2095	20.000	900	*R04	1	6680	20.000	900
J02C	1	3055	20.000	900	T03	1	5180	20.000	900	*R05	9	1418	0.000	810
J03	1	2155	20.000	900	T04	8	4680	20.000	818	*R06	2	2300	20.000	900
J03A	1	2155	20.000	900	T05	5	5180	20.000	758	*R07	7	1478	0.000	700
J03B	1	2155	20.000	900	T07	2	4270	20.000	900	*R07A	1	1478	0.000	700
J03C	1	2155	20.000	900	T09	1	7238	20.000	900	*R08	1	1958	20.000	900
J04	1	1255	20.000	900	T11	1	5180	20.000	603	*V02	1	1170	20.000	900
J04B	1	1255	20.000	900	T11A	1	5180	20.000	603	*V05	1	378	20.000	900
J04C	1	1255	20.000	900	T12	2	7238	20.000	756					
					T12A	1	7238	20.000	756					

Total quantity : 124

NPDC Approved
31 OCT 2012

The computer design input has been carried out by:

Signed: _____

Date: ...Wednesday, 8 August 2012....

Name of Detailer: _____

Qualifications and Title:

On behalf of: Capital Precut Solutions

Capital Precut Solutions

Fixing Report : Page 1

Job: 103093

Client: Cavalier Homes New Plymouth
Phone:Site: Coates House
Rotokere Street
New PlymouthDescription:
Building Consent No.:
MITek 20/20 Engineering 4.5.6.138

MITek New Zealand Limited

Phone:

Printed: 07:43:16 08 Aug 2012

TRUSS FIXING SELECTION REPORT - Characteristic Loads

Fixings are selected from the LUMBERLOK Brochure 03/4 (Timber Connectors Characteristic Loadings Data)

MITek® Truss List

Legend: * = detail only, ? = input only, Txx = failed design, Ø = non certified, Unmarked trusses = designed successfully

Truss	Qty	Span (mm)	Joint	Down (kN)	Uplift (kN)	Bearing	Fixing
							Qty Selected
CT01	1	4990	E	0.792	0.977	Cross	1 Pair of Wire Dog Staples
			D	2.557	1.988	Cross	1 Pair of Wire Dog Staples
			G	6.356	3.306	Cross	1 CT400
T01	1D	7780	A	6.964	6.019	Butt	1 Pair of MultiGrips
			G	7.704	6.023	Cross	1 CT400
			I	4.142	3.193	Cross	1 Pair of Wire Dog Staples
T02	1D	4680	A	7.825	6.026	Cross	1 CT400
			G	9.831	8.063	Cross	1 CT400
T06	1	4270	B	3.994	3.234	Cross	1 CT400
			F	3.994	3.234	Cross	1 CT400
T08	1	8050	A	4.816	4.081	Cross	1 CT400
			M	9.359	7.896	Cross	1 CT400
			I	2.854	1.417	Cross	1 Pair of Wire Dog Staples
T10	1D	5180	A	10.570	8.992	Cross	1 CT400
			E	6.297	5.489	Butt	1 Pair of MultiGrips
T13	1	8050	A	0.820	0.652	Cross	1 Pair of Wire Dog Staples
			M	6.336	5.243	Cross	1 CT400
			I	3.160	1.921	Cross	1 Pair of Wire Dog Staples
T	1	7780	A	8.018	7.422	Cross	1 CT400
			J	8.572	7.472	Cross	1 CT400
TG02	1	7237	K	0.468	0.115	Butt	1 Pair of 3.15d Nails
			F	4.143	4.081	Butt	1 JH 47x90
			N	9.706	11.729	Cross	1 16kN Truss to Top Plate
TG03	1	8050	A	1.254	0.852	Cross	1 Pair of Wire Dog Staples
			F	4.348	3.482	Cross	1 CT400
			N	12.547	10.842	Cross	1 CT200 pair
TR01	1	7237	G	0.679	0.355	Butt	1 Pair of 3.15d Nails
			F	2.305	1.906	Butt	1 JH 47x90
			I	5.871	4.729	Cross	1 CT400
TR02	1	8050	B	2.867	1.502	Cross	1 Pair of Wire Dog Staples
			G	3.370	2.381	Cross	1 Pair of Wire Dog Staples
			M	5.016	3.977	Cross	1 CT400
TR03	1	8050	A	1.433	1.174	Cross	1 Pair of Wire Dog Staples
			H	3.312	2.205	Cross	1 Pair of Wire Dog Staples
			L	5.389	4.438	Cross	1 CT400
CT02	1	4990	F	2.782	1.421	Cross	1 Pair of Wire Dog Staples
			D	2.506	2.104	Cross	1 Pair of Wire Dog Staples
			H	1.909	1.320	Cross	1 Pair of Wire Dog Staples
CT03	2	2815	E	1.699	0.947	Cross	2 Pair of Wire Dog Staples
			A	1.665	1.045	Cross	2 Pair of Wire Dog Staples
ET01	1	4680	A			Wide	No fixing selected
ET02	1	5180	A			Wide	No fixing selected
J01	1	3913	B	3.095	1.409	Cross	1 Pair of Wire Dog Staples
			F	1.568	1.326	Cross	1 Pair of Wire Dog Staples
			E	1.077	1.087	Cross	1 Pair of Wire Dog Staples
J02	1	3055	B	2.920	1.289	Cross	1 Pair of Wire Dog Staples
			H	1.537	1.257	Butt	1 JH 47x90
			E	0.316	0.447	Butt	1 Pair of 3.15d Nails
J02A	1	3055	B	2.920	1.289	Cross	1 Pair of Wire Dog Staples
			H	1.537	1.257	Butt	1 JH 47x90
			E	0.316	0.447	Butt	1 Pair of 3.15d Nails
J02B	1	3055	B	3.239	2.115	Cross	1 Pair of Wire Dog Staples
			H	2.204	2.080	Butt	1 JH 47x90
J02C	1	3055	B	3.239	2.115	Cross	1 Pair of Wire Dog Staples
			H	2.204	2.080	Butt	1 JH 47x90
J03	1	2155	B	2.739	0.929	Cross	1 Pair of Wire Dog Staples
			F	1.484	0.785	Butt	1 JH 47x90
			D	0.355	0.410	Butt	1 Pair of 3.15d Nails
J03A	1	2155	B	2.780	1.292	Cross	1 Pair of Wire Dog Staples
			F	1.261	0.864	Butt	1 JH 47x90
J03B	1	2155	B	2.739	0.929	Cross	1 Pair of Wire Dog Staples
			F	1.484	0.785	Butt	1 JH 47x90
			D	0.355	0.410	Butt	1 Pair of 3.15d Nails
J03C	1	2155	B	2.780	1.292	Cross	1 Pair of Wire Dog Staples
			F	1.261	0.864	Butt	1 JH 47x90
J04	1	1255	B	2.706	0.574	Cross	1 Pair of Wire Dog Staples
			D	0.373	0.037	Butt	1 Pair of 3.15d Nails
			C	0.374	0.644	Butt	1 Pair of 3.15d Nails
J04A	1	1255	B	2.704	0.639	Cross	1 Pair of Wire Dog Staples
			D	0.627	0.363	Butt	1 Pair of 3.15d Nails
J04B	1	1255	B	2.706	0.574	Cross	1 Pair of Wire Dog Staples
			D	0.373	0.037	Butt	1 Pair of 3.15d Nails
			C	0.374	0.644	Butt	1 Pair of 3.15d Nails
J04C	1	1255	B	2.704	0.639	Cross	1 Pair of Wire Dog Staples
			D	0.627	0.363	Butt	1 Pair of 3.15d Nails

NPDC Approved

31 OCT 2012

Capital Precut Solutions

Fixing Report : Page 2

Job: 103093

Client: Cavalier Homes New Plymouth
Phone:Site: Coates House
Rotokere Street
New PlymouthDescription:
Building Consent No.:
MITek 20/20 Engineering 4.5.5.138

MITek New Zealand Limited

Phone:

Printed: 07:43:16 08 Aug 2012

Truss	Qty	Span (mm)	Joint	Down (kN)	Uplift (kN)	Bearing	Fixing
							Qty Selected
J05	1	2112	B	2.733	0.912	Cross	1 Pair of Wire Dog Staples
			F	1.446	0.753	Butt	1 JH 47x90
			D	0.359	0.418	Butt	1 Pair of 3.15d Nails
J05A	1	2112	B	2.740	1.116	Cross	1 Pair of Wire Dog Staples
			F	1.217	0.792	Butt	1 Pair of 3.15d Nails
J05B	1	2112	B	2.740	1.116	Cross	1 Pair of Wire Dog Staples
			F	1.217	0.792	Butt	1 Pair of 3.15d Nails
J06	1	1212	B	2.714	0.557	Cross	1 Pair of Wire Dog Staples
			D	0.360	0.036	Butt	1 Pair of 3.15d Nails
			C	0.375	0.621	Butt	1 Pair of 3.15d Nails
J06A	1	1212	B	2.714	0.557	Cross	1 Pair of Wire Dog Staples
			D	0.360	0.036	Butt	1 Pair of 3.15d Nails
			C	0.375	0.621	Butt	1 Pair of 3.15d Nails
J07	1	2545	G	0.101	0.268	Butt	1 Pair of 3.15d Nails
			E	1.070	1.839	Cross	1 Pair of Wire Dog Staples
			H	4.396	0.814	Cross	1 Pair of Wire Dog Staples
			F	0.672	0.909	Cross	1 Pair of Wire Dog Staples
J07A	1	2545	B	2.768	0.815	Cross	1 Pair of Wire Dog Staples
			E	0.397	0.558	Cross	1 Pair of Wire Dog Staples
			D	2.197	2.304	Cross	1 Pair of Wire Dog Staples
J07B	1	2545	F	0.249	0.335	Butt	1 Pair of 3.15d Nails
			E	1.327	1.828	Cross	1 Pair of Wire Dog Staples
			G	4.348	0.870	Cross	1 Pair of Wire Dog Staples
J07C	1	2545	A	1.501	1.030	Butt	1 JH 47x90
			E	1.721	0.994	Butt	1 JH 47x90
			C	0.322	0.433	Butt	1 Pair of 3.15d Nails
J07D	1	2545	F	0.249	0.335	Butt	1 Pair of 3.15d Nails
			E	1.327	1.828	Cross	1 Pair of Wire Dog Staples
			G	4.348	0.870	Cross	1 Pair of Wire Dog Staples
J07E	1	2545	B	2.768	0.818	Cross	1 Pair of Wire Dog Staples
			G	2.193	2.297	Butt	1 JH 47x90
			E	0.397	0.557	Cross	1 Pair of Wire Dog Staples
J07F	1	2545	A	1.501	1.030	Butt	1 JH 47x90
			E	1.593	1.427	Butt	1 JH 47x90
J07G	1	2545	A	1.501	1.030	Butt	1 JH 47x90
			E	1.593	1.427	Butt	1 JH 47x90
J08	1	2095	A	1.205	0.480	Butt	1 Pair of 3.15d Nails
			E	0.271	0.366	Cross	1 Pair of Wire Dog Staples
			C	1.666	1.701	Cross	1 Pair of Wire Dog Staples
			D	0.832	1.145	Cross	1 Pair of Wire Dog Staples
J08B	1	2095	A	1.234	0.665	Butt	1 Pair of 3.15d Nails
			D	0.247	0.345	Butt	1 Pair of 3.15d Nails
			C	1.986	1.800	Cross	1 Pair of Wire Dog Staples
J08C	1	2095	A	1.203	0.491	Butt	1 Pair of 3.15d Nails
			E	0.242	0.326	Butt	1 Pair of 3.15d Nails
			C	1.686	1.713	Cross	1 Pair of Wire Dog Staples
			D	0.793	1.092	Cross	1 Pair of Wire Dog Staples
J08D	1	2095	B	2.730	0.905	Cross	1 Pair of Wire Dog Staples
			F	1.430	0.741	Butt	1 JH 47x90
			D	0.361	0.420	Butt	1 Pair of 3.15d Nails
J08E	1	2095	B	2.692	0.721	Cross	1 Pair of Wire Dog Staples
			E	0.233	0.343	Butt	1 Pair of 3.15d Nails
			D	1.946	1.789	Cross	1 Pair of Wire Dog Staples
J08F	1	2095	A	1.203	0.491	Butt	1 Pair of 3.15d Nails
			E	0.242	0.326	Butt	1 Pair of 3.15d Nails
			C	1.686	1.713	Cross	1 Pair of Wire Dog Staples
			D	0.793	1.092	Cross	1 Pair of Wire Dog Staples
J09	1	2095	B	2.729	0.972	Cross	1 Pair of Wire Dog Staples
			F	1.194	0.686	Butt	1 Pair of 3.15d Nails
J09	1	2095	A	2.528	1.445	Butt	1 JH 47x90
			E	2.528	1.772	Butt	1 JH 47x90
T03	1	5180	B	3.597	2.549	Cross	1 Pair of Wire Dog Staples
			F	3.019	2.495	Cross	1 Pair of Wire Dog Staples
T04	8	4680	B	3.166	2.093	Cross	8 Pair of Wire Dog Staples
			F	3.166	2.093	Cross	8 Pair of Wire Dog Staples
T05	5	5180	B	3.167	2.141	Cross	5 Pair of Wire Dog Staples
			F	3.167	2.141	Cross	5 Pair of Wire Dog Staples
T07	2	4270	B	3.209	2.105	Cross	2 Pair of Wire Dog Staples
			F	3.209	2.105	Cross	2 Pair of Wire Dog Staples
T09	1	7238	F	2.457	2.087	Butt	1 JH 47x90
			E	3.413	2.820	Butt	1 JH 47x90
			H	2.668	2.081	Cross	1 Pair of Wire Dog Staples
T11	1	5180	A	2.048	1.676	Cross	1 Pair of Wire Dog Staples
			E	2.048	1.676	Butt	1 JH 47x90
T11A	1	5180	B	2.855	1.709	Cross	1 Pair of Wire Dog Staples
			F	2.024	1.673	Butt	1 JH 47x90
T12	2	7238	I	2.072	1.564	Butt	2 JH 47x90
			G	3.317	2.318	Cross	2 Pair of Wire Dog Staples
			L	2.487	2.020	Cross	2 Pair of Wire Dog Staples
T12A	1	7238	F	2.063	1.752	Butt	1 JH 47x90
			E	2.865	2.368	Cross	1 Pair of Wire Dog Staples
			H	2.420	1.747	Cross	1 Pair of Wire Dog Staples
T12B	1	7238	F	2.063	1.752	Butt	1 JH 47x90
			E	2.865	2.368	Butt	1 JH 47x90
			H	2.420	1.747	Cross	1 Pair of Wire Dog Staples

NPDC Approved
31 OCT 2012

Fixing Report : Page 3

Phone: _____ Printed: 07:43:16 08 Aug 2012

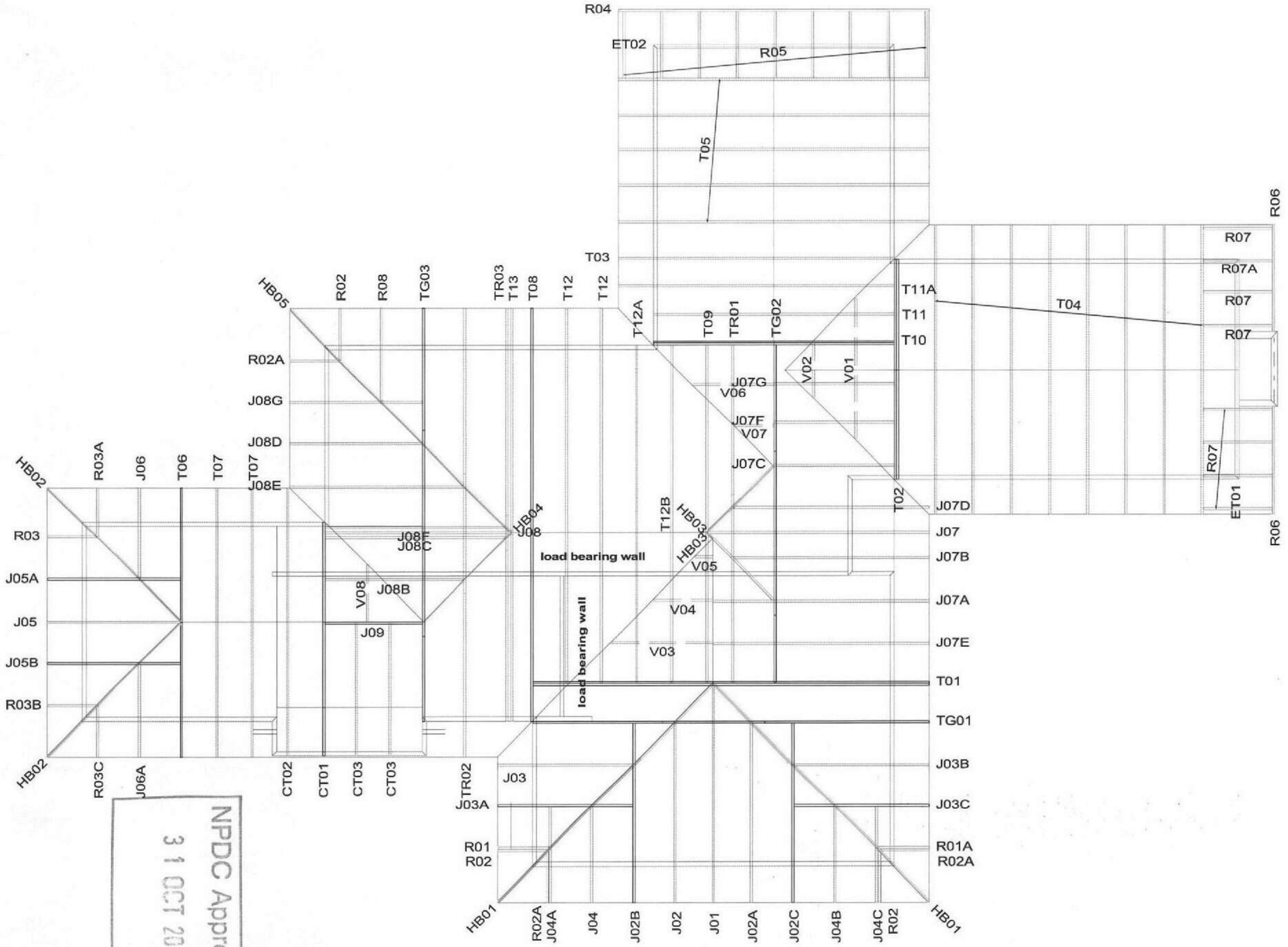
MiTek New Zealand Limited

[illegible]

Qty	Selected Fixing	Cost
104	Pair of Wire Dog Staples	48.88
16	CT400	18.72
2	Pair of MultiGrips	2.10
33	Pair of 3.15d Nails	1.32
30	JH 47x90	41.40
1	16kN Truss to Top Plate	5.60
1	CT200 pair	1.17
8	No fixing selected	
Total		119.19

NPDC Approved
31 OCT 2012

1) Fixings have been selected based on loading only. Please check that selected fixings are practical for each situation and that appropriate nailing can be applied on site.
2) Fixings are selected from the LUMBERLOK Brochure 03/4 (Timber Connectors Characteristic Loadings Data) with down and uplift characteristic loads of at least the values shown for each joint.



NPDC Approved
 31 OCT 2012

4.6.1.4 Roof- or deck-to-wall junctions

Refer to Figure 7 for example of use.

Amend 2
Jul 2005

- a) There shall be a total minimum upstand height of 110 mm, in accordance with Table 7, comprising a minimum:
- i) overlap cover of *cladding* to the *flashing* upstand of 75 mm, and
 - ii) 35 mm clearance from bottom of the wall *cladding* to *roof cladding* or finished *deck* material.

Amend 5
Aug 2011

Table 7: Metal flashings – general dimensions

Paragraphs 4.6, 4.6.1.1, 4.6.1.2, 4.6.1.3, 4.6.1.4, 4.6.1.5, 4.6.1.6, 4.6.1.7, 5.1, 6.4, 6.5, 7.4.4, 8.3.8, 9.1.3, 9.1.10.2, 9.1.10.4 and 9.4.5.3

Type	Description	All (1)	Situation 1 (2) minimum mm	Situation 2 (3) minimum mm	Situation 3 (3a) minimum mm	Figure reference (as example)
Aprons: general	<i>Transverse flashing</i> over roofing		130 (4)	200 (4)	200 mm	Figure 7 and Figure 44 (X values)
	<i>Parallel flashing</i> over roofing		Two crests, finish in next trough – refer 4.6.1.1b)			Figures 47, 48 (Y values)
Ridges/ hips	<i>Transverse flashing</i> over roofing		Refer Aprons: general			Figures 43, 45b, 46
Changes in roof pitches	Upper lap under roofing	250 mm min.			Not permitted under E2/AS1	Figure 44
	<i>Transverse flashing</i> over roofing		Refer Aprons: general			
Barges	Overlap to barge board		50 (8)	70 (8)	90 mm	Figure 47 (Z values)
Cappings	Overlaps to <i>cladding</i>		50 (8)	70 (8)	90 mm	Figure 10 (Z values)
	Slope to top: <i>parapet</i> and balustrade – metal capping	5° min.				Figures 10, 11, 12, 130
	Slope to balustrade – <i>flush-finished EIFS</i> and fibre cement(5)	10° min.				Figures 117, 129, 130
Roof or Deck to Wall	Overlaps to roofing		Refer Aprons: general			
– See membranes below	Lap under <i>cladding</i> above	75 mm min.			90 mm	Figures 7, 26, 30, 35, 37, 44, 48, 50
	Clearance below <i>cladding</i>	35 mm min.				
	Total upstand	110 mm min.				

Amend 5
Aug 2011

NP C Approved
31 OCT 2012

Amend 5
Aug 2011

COMMENT:

Reduced cover for barge and apron flashings may be applicable for specifically designed roofs in low wind zones.

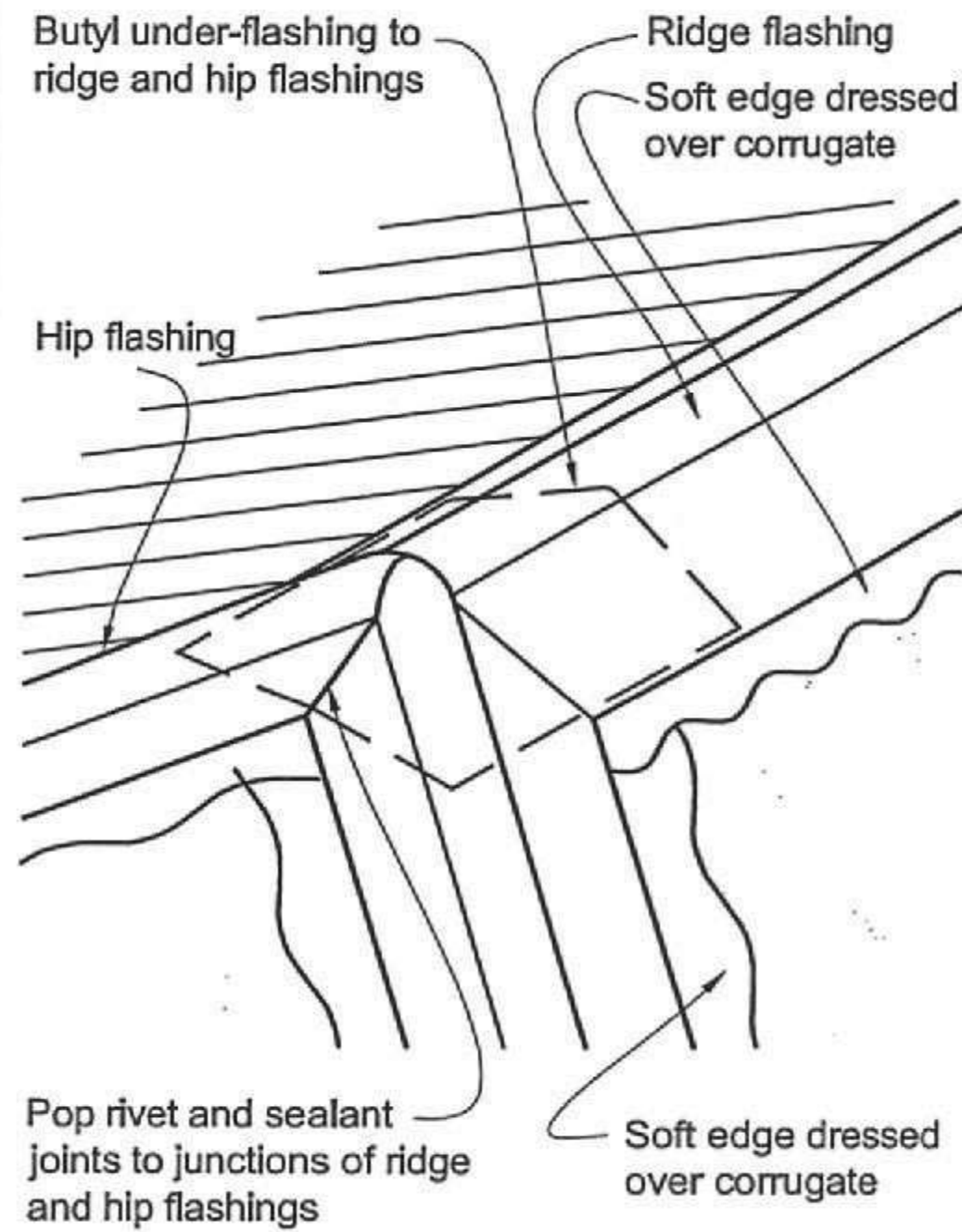
Amend 2
Jul 2005

Refer to the New Zealand Metal Roof and Wall Cladding Code of Practice for additional guidance on ridge to hip flashings.

Amend 5
Aug 2011

Figure 43: Ridge to hip flashings
Paragraphs 8.4.11 and 8.4.12

NOTE: Flashing cover varies according to wind zone - refer Table 7.
For other ridge to hip flashings refer to New Zealand Metal Roofing and Wall Cladding Code of Practice.



Amend 2
Jul 2005

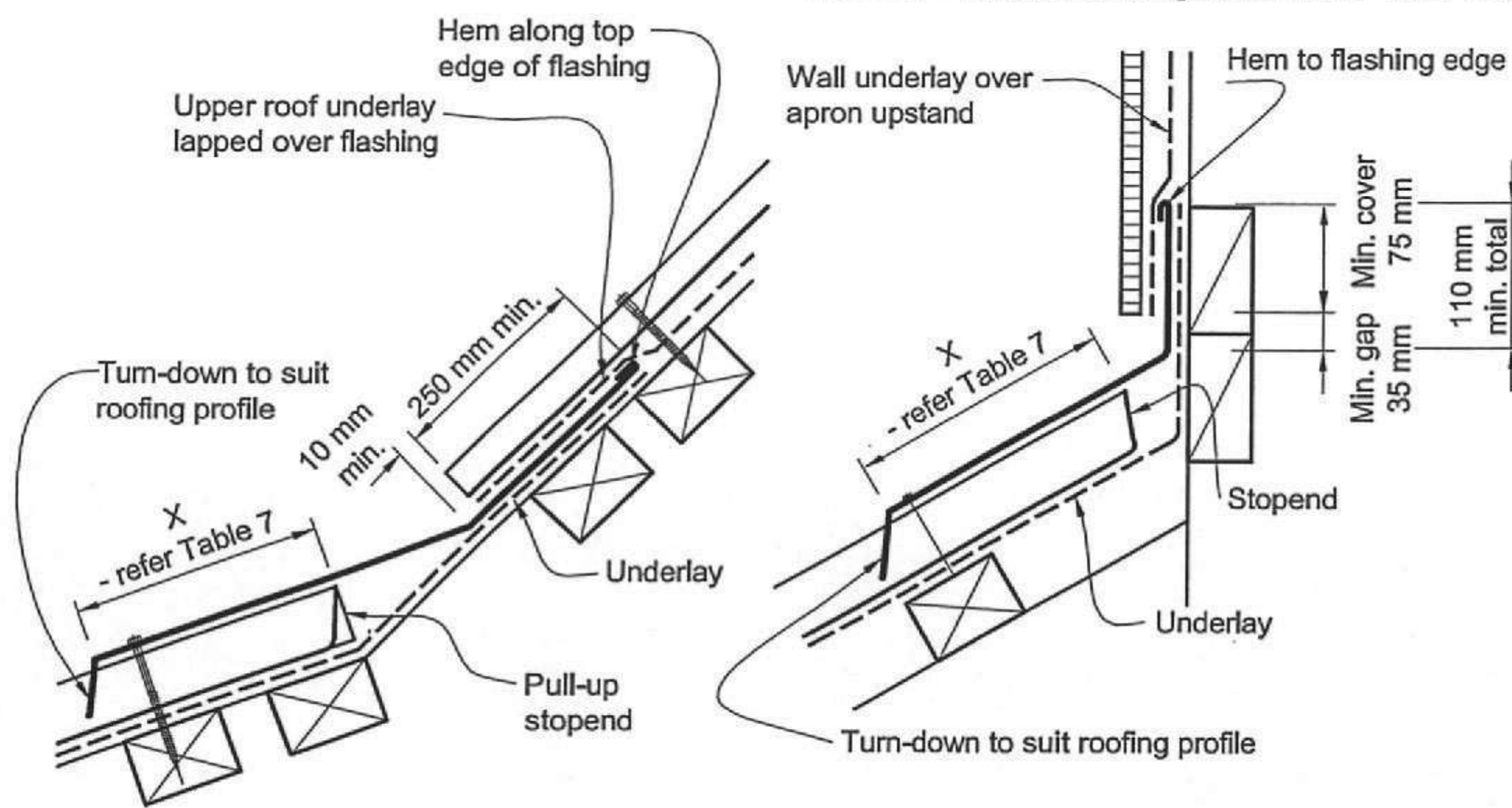
Amend 2
Jul 2005

Amend 5
Aug 2011

Amend 2
Jul 2005

Figure 44: Apron flashing and change in pitch for profiled metal
Paragraphs 4.5, 8.4.11, 8.4.12, Table 7

NOTE: X = variable according to wind zone - refer Table 7.



(a) CHANGE IN PITCH

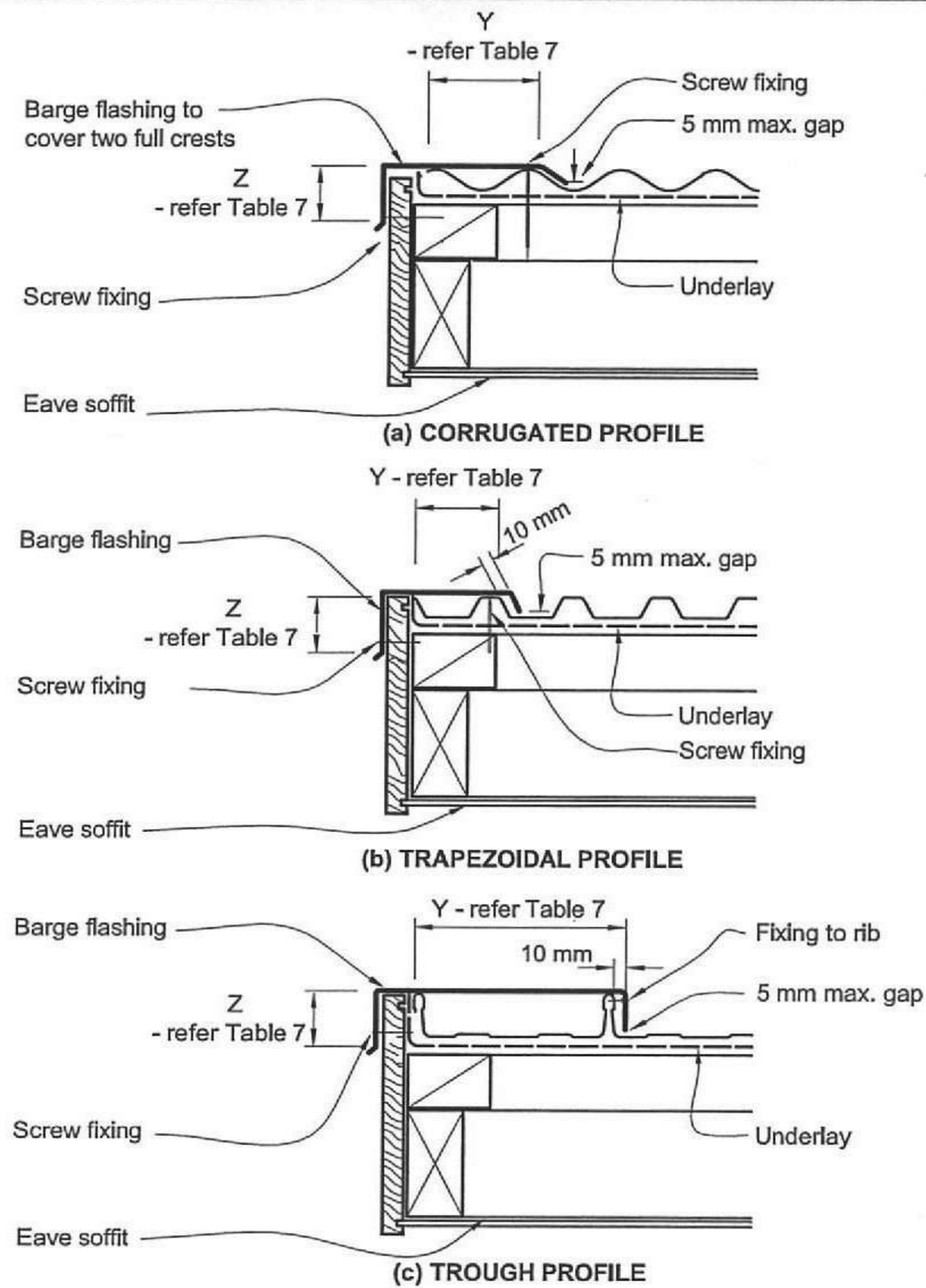
(b) APRON FLASHING

Amend 2
Jul 2005

Amend 5
Aug 2011

NPDC Approved
31 OCT 2012

Figure 47: Barge flashings for profiled metal
Paragraphs 8.4.11, 8.4.12, Table 7



Amend 2
Jul 2005

Amend 2
Jul 2005

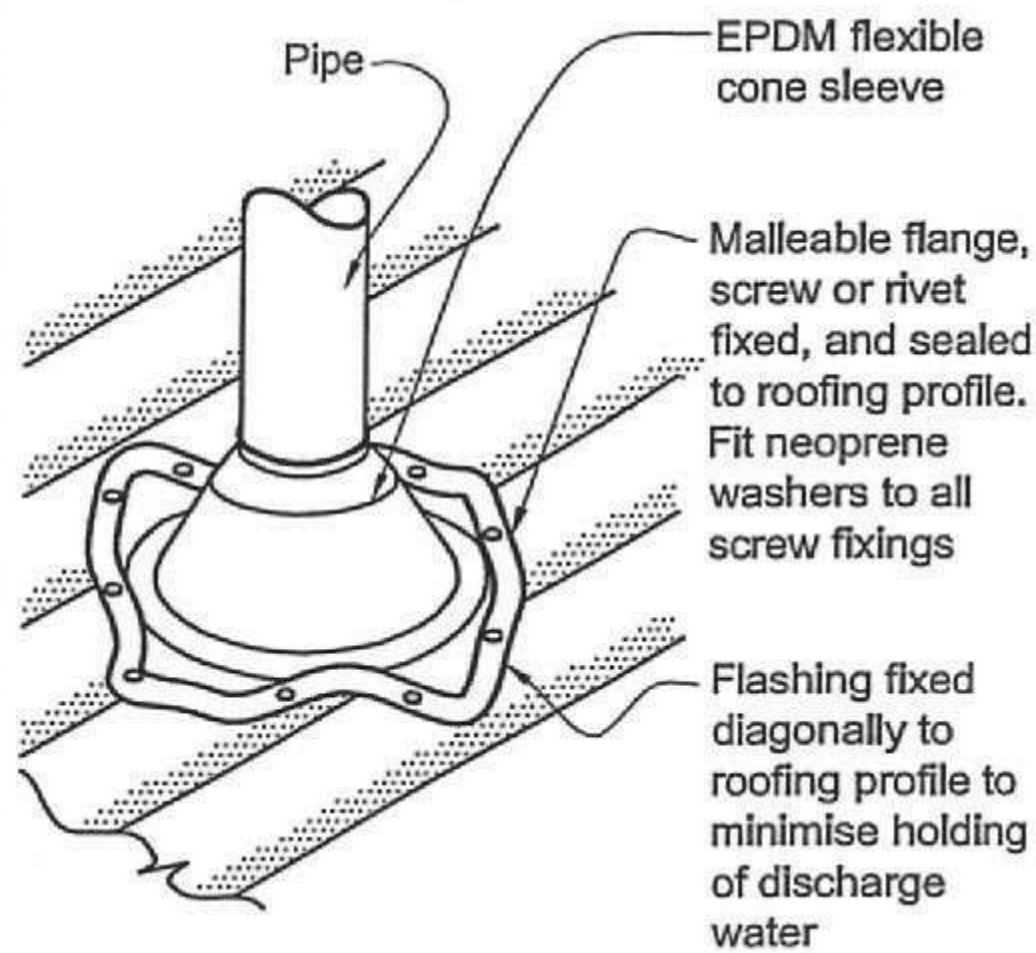
Amend 2
Jul 2005

Amend 5
Aug 2011

NPDC Approve
31 OCT 2012

Figure 53: Flashing for small pipes

Paragraphs 8.3.10, 8.4.17, 9.6.8.5 and 9.6.9.6

**NOTE:**

- (1) Max. roof pitch for this flashing 45°, minimum pitch 10° if base of flange covers one or more complete troughs.
 (2) For pipes up to 85 mm diameter.

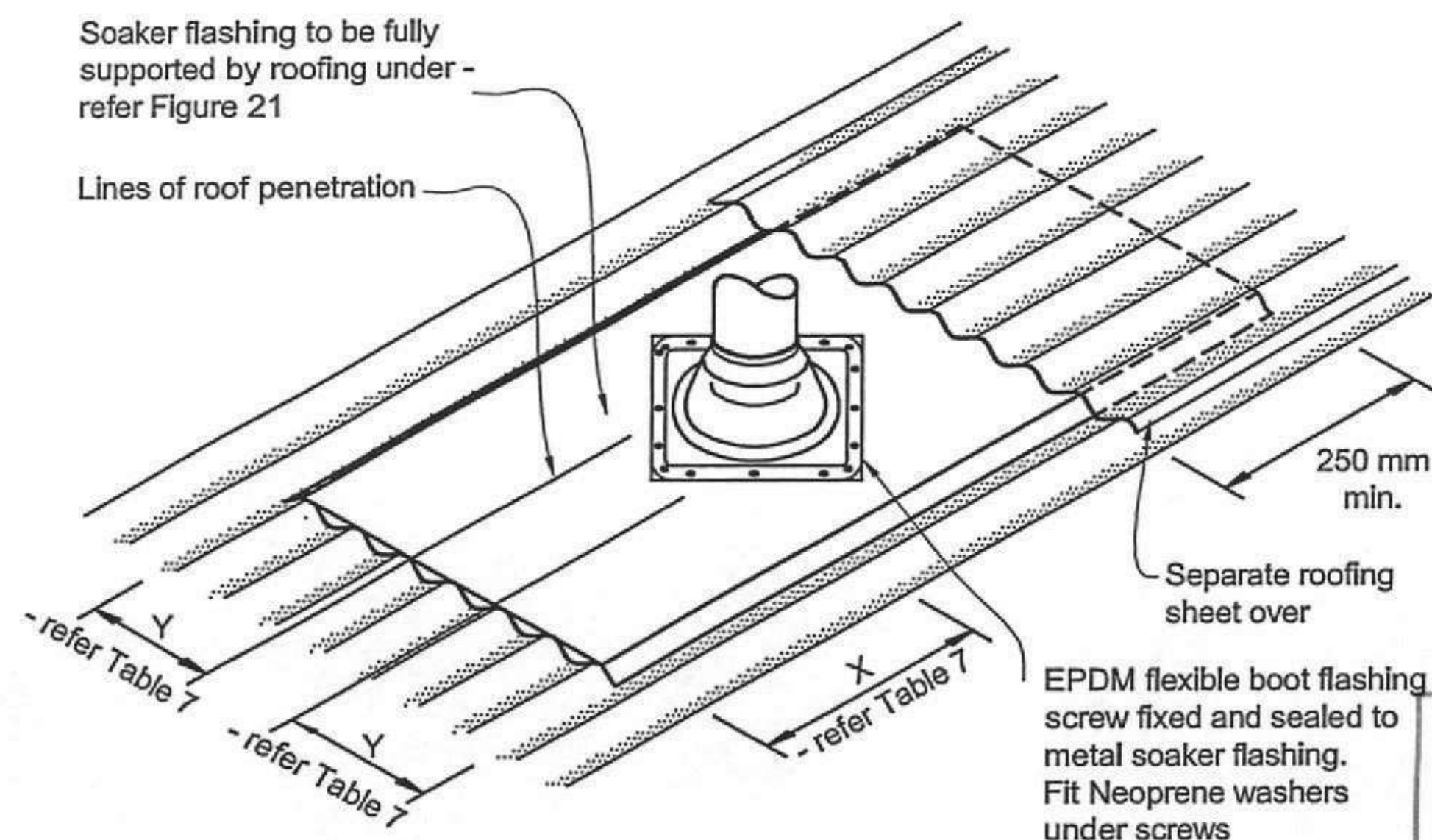
Amend 5
Aug 2011**Figure 54: Soaker flashing for pipe penetrations**

Paragraph 8.4.17

- NOTE:** (1) Suitable for pipes from 60 mm to 500 mm diameter.
 (2) Suitable only for roof pitches of 10° or more.

Soaker flashing to be fully supported by roofing under - refer Figure 21

Lines of roof penetration

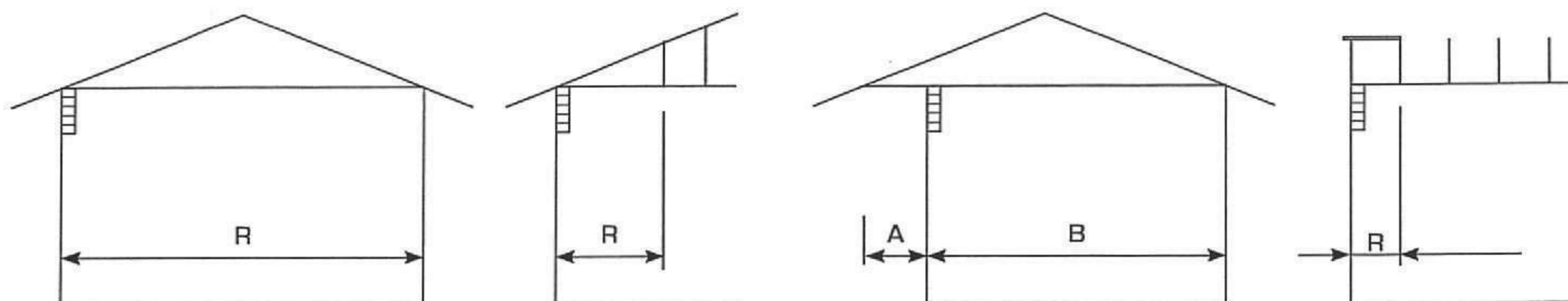
Amend 2
Jul 2005Amend 2
Jul 2005

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31 OCT 2012

Amend 5
Aug 2011

SELECTION CHARTS



$$A \leq \frac{1}{4} (A + B), R = B + 2A$$

PROLAM®

TABLE 1:
PROLAM® LINTELS SUPPORTING ROOF AND CEILING ONLY

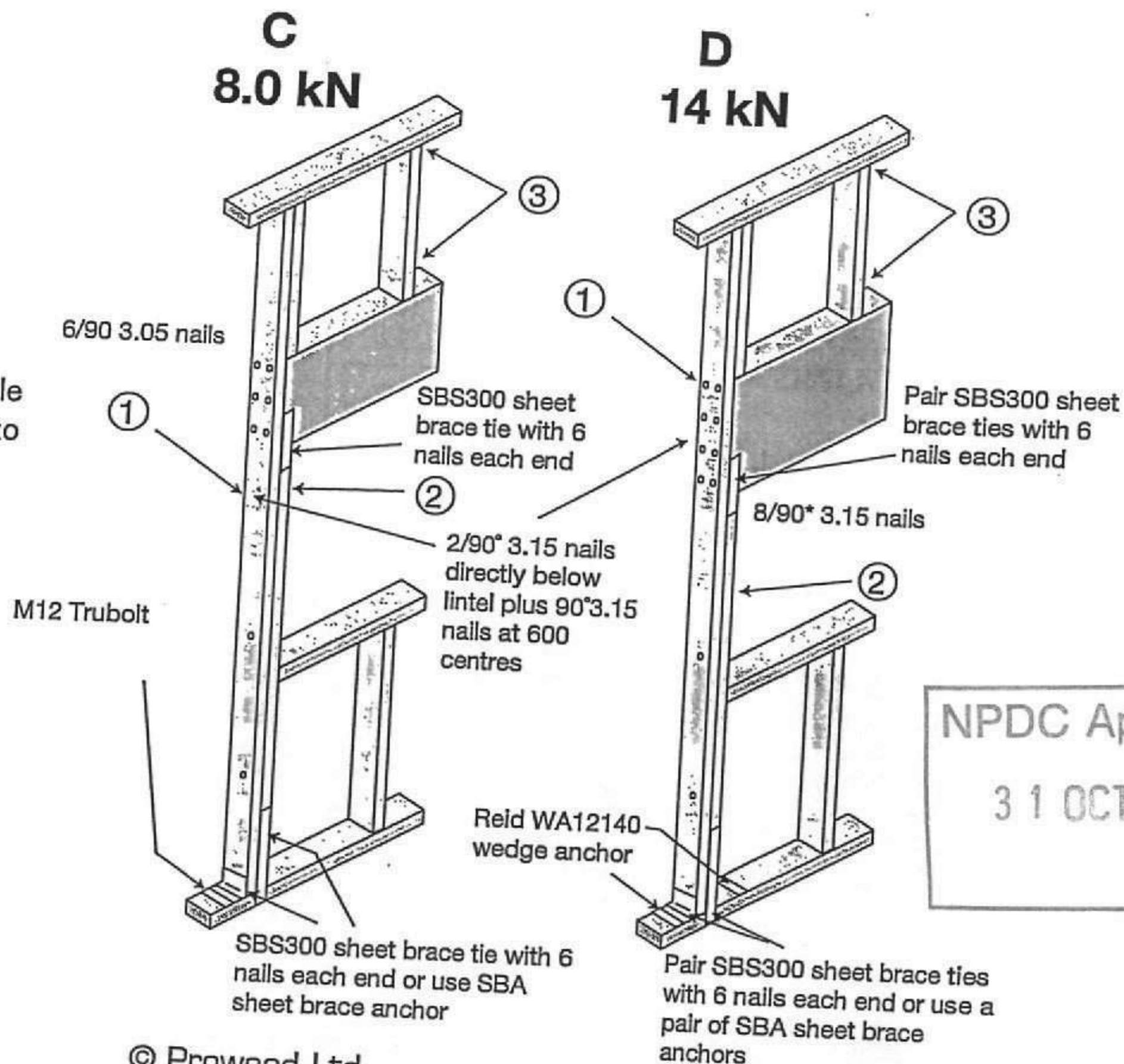
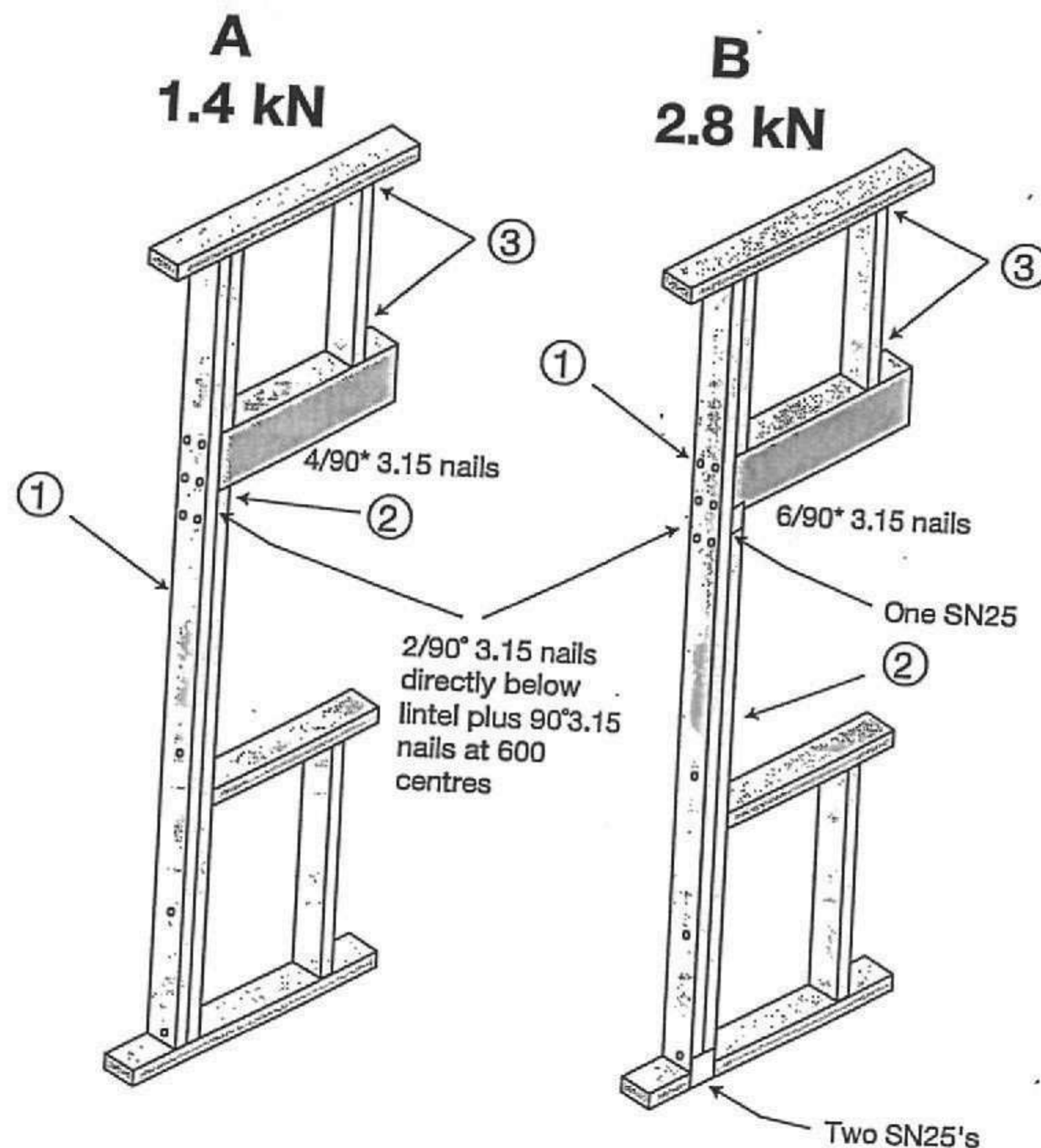
		LINTEL SIZE	MAXIMUM LINTEL SPAN (m)												
			SUPPORTED ROOF SPAN 'R' (m)												
			2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0
GL8	LIGHT ROOF	PLL 150 140 x 88mm	3.25	3.00	2.80	2.60	2.40	2.25	2.15	2.05	1.95	1.85	1.80	1.75	1.70
		PLL 200 190 x 88mm	4.15	3.95	3.70	3.45	3.20	3.00	2.85	2.70	2.60	2.50	2.40	2.30	2.25
		PLL 250 240 x 88mm	4.90	4.60	4.40	4.30	4.00	3.70	3.50	3.40	3.20	3.10	3.00	2.90	2.80
		PLL 300 290 x 88mm	5.60	5.30	5.10	4.90	4.70	4.50	4.30	4.10	3.90	3.70	3.60	3.50	3.30
		PLL 350 315 x 88mm	6.30	6.00	5.70	5.50	5.30	5.10	5.00	4.70	4.50	4.30	4.20	4.00	3.90
	HEAVY ROOF	PLL 150 140 x 88mm	2.75	2.50	2.30	2.10	2.00	1.85	1.75	1.70	1.60	1.55	1.50	1.45	1.40
		PLL 200 190 x 88mm	3.65	3.35	3.05	2.80	2.65	2.50	2.35	2.25	2.15	2.05	2.00	1.90	1.85
		PLL 250 240 x 88mm	4.50	4.10	3.80	3.50	3.30	3.10	2.90	2.80	2.70	2.50	2.40	2.40	2.30
		PLL 300 290 x 88mm	5.30	4.90	4.50	4.20	3.90	3.70	3.50	3.30	3.20	3.10	2.90	2.80	2.70
		PLL 350 315 x 88mm	5.90	5.60	5.30	4.90	4.60	4.30	4.10	3.90	3.70	3.60	3.40	3.30	3.20
GL12	LIGHT ROOF	PL12 150 140 x 88mm	3.65	3.40	3.20	2.95	2.75	2.60	2.45	2.35	2.25	2.15	2.05	2.00	1.95
		PL12 200 190 x 88mm	4.55	4.30	4.10	3.95	3.70	3.45	3.30	3.15	3.00	2.85	2.75	2.65	2.60
		PL12 250 240 x 88mm	5.40	5.10	4.90	4.70	4.50	4.30	4.10	3.90	3.70	3.60	3.40	3.30	3.20
		PL12 300 290 x 88mm	6.20	5.80	5.60	5.40	5.20	5.00	4.90	4.70	4.50	4.30	4.10	4.00	3.80
		PL12 350 315 x 88mm	6.90	6.60	6.30	6.00	5.80	5.60	5.50	5.30	5.20	5.00	4.80	4.60	4.50
	HEAVY ROOF	PL12 150 140 x 88mm	3.10	2.90	2.65	2.45	2.25	2.15	2.00	1.95	1.85	1.75	1.70	1.65	1.60
		PL12 200 190 x 88mm	4.10	3.85	3.50	3.25	3.05	2.85	2.70	2.55	2.45	2.35	2.25	2.20	2.10
		PL12 250 240 x 88mm	5.10	4.70	4.30	4.00	3.80	3.50	3.30	3.20	3.00	2.90	2.80	2.70	2.60
		PL12 300 290 x 88mm	5.89	5.50	5.20	4.80	4.50	4.20	4.00	3.80	3.70	3.50	3.40	3.30	3.20
		PL12 350 315 x 88mm	6.50	6.20	5.90	5.60	5.20	4.90	4.70	4.50	4.30	4.10	3.90	3.80	3.70

The span tables apply only to Prolam® products

283 Waiwhero Rd P O Box 413 Motueka New Zealand Phone 03 526 7436 Fax 03 526 7437
Email: info@prowoodnz.com Web: www.prolamnz.com

Apr 2009

FIXING & SUPPORT DETAILS



1. For trimming stud thickness refer to Table 8.5 NZS 3604:1999. Additional studs to that shown to have a minimum stud to stud fixing of 11/90° 3.15 diam. nails
2. Refer to Pryda Wallplate to Stud Joint Fixing Guide
3. Where a doubling stud which provides support for a lintel is shorter by 400mm or more than the full stud height, its thickness shall not be included as contributing to the thickness of trimming studs.
4. Bottom plate fixings as shown also applies to Pryda Lintel - the top plate fixing does not apply.

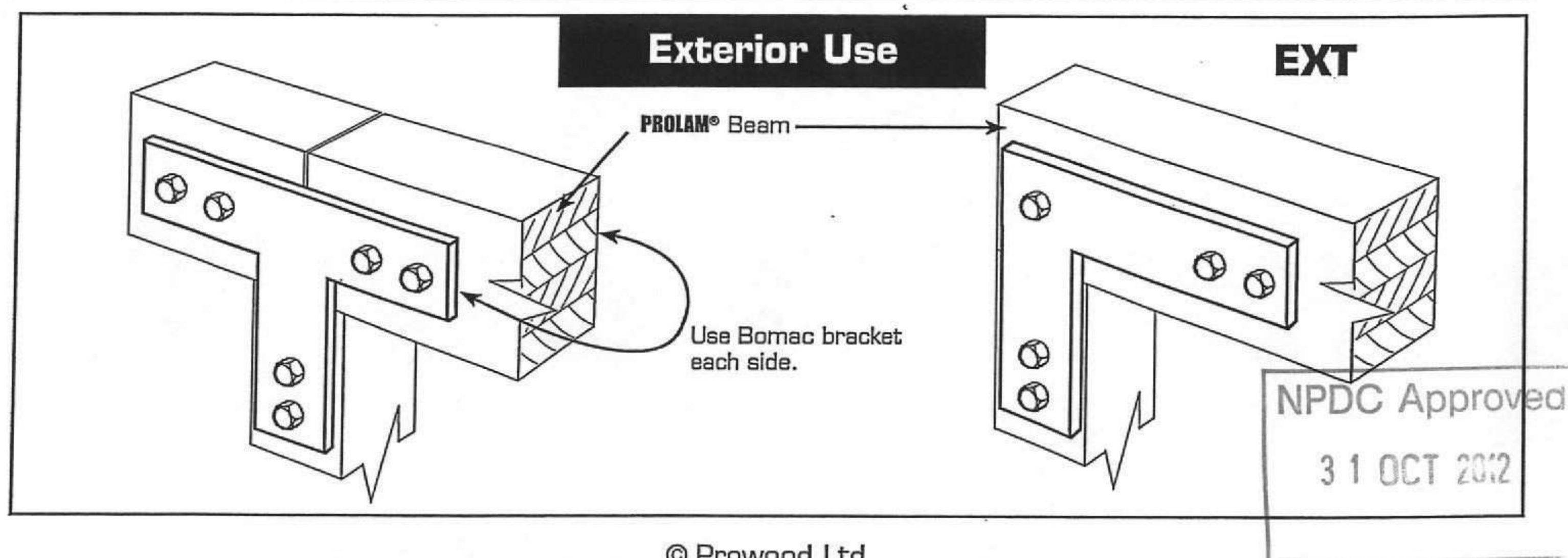
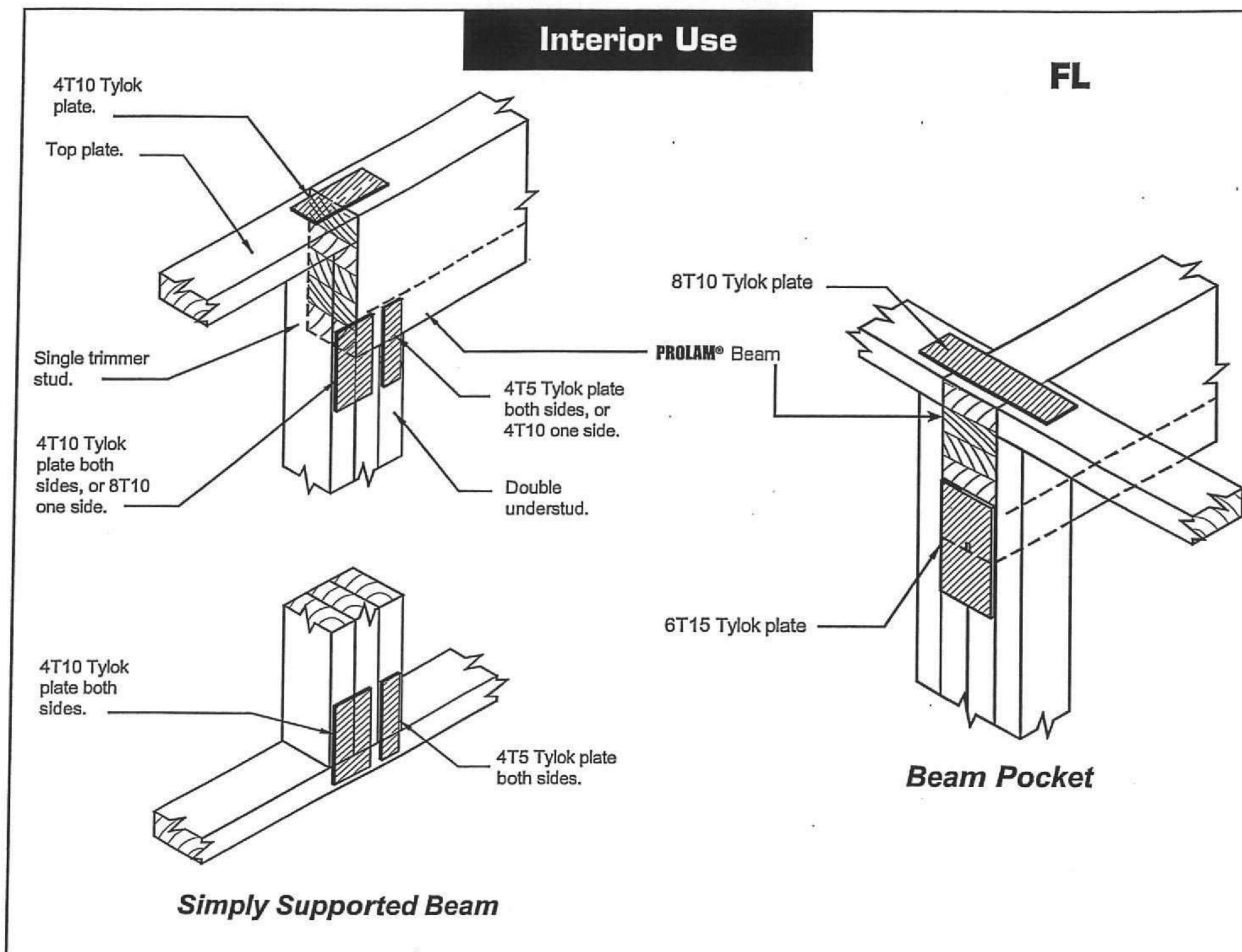
NPDC Approve
31 OCT 2012

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Apr 2009

FIXING & SUPPORT DETAILS



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Email: info@prowoodnz.com Web: www.prolamnz.com

Capital Precut Solutions

MANUFACTURER STATEMENT : Page 1

Job: 02699

Client: A Customer
Phone:Site: Coates
Lot 5,
Kotakare Cres
New Plymouth

Phone:

Description:
Building Consent No.:
MiTek 20/20 Engineering 4.9.8.138

MiTek New Zealand Limited

Printed: 13:29:38 01 Feb 2013

MANUFACTURER STATEMENT

This statement is issued by Capital Precut Solutions 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.

The MiTek® trusses for the job reference 02699 have been fabricated in accordance with the MiTek 20/20® truss design, truss layout and shop drawing output and the specifications for timber defined therein, and are covered by the Producer Statement issued by MiTek New Zealand Limited and the MiTek Fabricator Design Statement.

Summary of fabricated MiTek® trusses in accordance with MiTek 20/20® output

These MiTek® trusses must be erected in accordance with the Truss Layout. Proper erection bracing must be installed to hold the trusses true and plumb and in a safe condition until permanent bracing is fixed. All permanent bracing and fixing must be installed before any loads are applied.

Job Details

Importance Level : 2

Design Working Life : 50 years

Roof

Material: Light
Dead Load: 0.250 kPa
Restraints: 900 mm centres
Live Load: Q_{ur} = 0.250 kPa
Q_c = 1.100 kN

Ceiling

Material: Rondo on clips
Dead Load: 0.200 kPa
Restraints: 1800 mm centres
Live Load: Q_c = 1.400 kN

Wind

Area: High (44.0 m/s)
Pressure Coeff: C_{pe} = varies; C_{pi} = -0.30, 0.20

MiTek® Truss List

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

Roof Truss

Treatment: Top Chords - H1.2 Bottom Chords - H1.2 Webs - H1.2

Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)	Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)
ET01	1	1550	20.000	900	J05C	1	3102	20.000	900	T03	1	4680	20.000	900
ET02	1	5180	20.000	900	J05D	1	3102	20.000	900	T04	1D	4680	20.000	808
ET03	1	1550	20.000	900	J05E	1	3102	20.000	900	T05	7	4680	20.000	808
*HB01	2	4048	14.433	900	J06	1	2202	20.000	900	T06	1	8050	20.000	900
*HB02	2	6530	14.433	900	J06A	1	2202	20.000	900	T07	2	5438	20.000	900
*HB03	1	6721	14.433	900	J07	1	1302	20.000	900	T07A	2	5438	20.000	900
*HB04	1	3778	14.433	900	J07A	1	1302	20.000	900	T07B	1	5438	20.000	900
*HB05	1	1273	14.433	900	*R01	1	1075	20.000	900	T08	1	5180	20.000	900
*HB05A	1	1274	14.433	900	*R01A	1	1075	20.000	900	T09	1	5180	20.000	779
HT01	1	4003	20.000	900	*R01B	1	1075	20.000	900	T10	2	5180	20.000	779
J01	1	2112	20.000	900	*R01C	1	1075	20.000	900	T10A	4	5180	20.000	779
J01A	1	2112	20.000	900	*R02	1	1930	20.000	900	T11	3	3102	20.000	900
J01B	1	2112	20.000	900	*R02A	1	1930	20.000	900	T12	2	4270	20.000	900
J02	1	1212	20.000	900	*R03	3	1063	20.000	900	TG01	1D	7780	20.000	900
J02A	1	1212	20.000	900	*R03A	3	1063	20.000	900	TG02	1	8050	20.000	900
J03	1	2967	20.000	900	*R04	1	1165	20.000	900	TG03	1	5438	20.000	900
J03A	1	2967	20.000	900	*R05	1	914	20.000	900	V01	1	1035	20.000	900
J03B	1	2967	20.000	900	*R06	1D	6680	20.000	900	V02	1	2970	20.000	900
J03C	1	2967	20.000	900	*R07	2	1560	0.000	734	V03	1	1080	20.000	900
J03D	1	2967	20.000	900	*R07A	6	1560	0.000	734	V04	1	1676	20.000	900
J04	1	2067	20.000	900	*R08	4	1560	0.000	900	V05	1	776	20.000	900
J04A	1	2067	20.000	900	*R09	2D	2300	20.000	900	V06	1	1376	20.000	900
J04B	1	2067	20.000	900	*R10	2	1560	0.000	753	V07	1	2130	20.000	900
J04C	1	2067	20.000	900	*R10A	4	1560	0.000	753	V08	1	1230	20.000	900
J05	1	3102	20.000	900	*R11	1	1580	20.000	900					
J05A	1	3102	20.000	900	T01	1	4270	20.000	900					
J05B	1	3102	20.000	900	T02	3	7780	20.000	900					

Treatment: Top Chords - H1.2 Bottom Chords - H1.2 Webs - H1.2 Cove Chords - H1.2

Truss	Qty	Span (mm)	Pitch (deg)	Spacing (mm)
CT01	1	4990	20.000	900
CT02	1	4990	20.000	900
CT03	2	4723	20.000	900

Roof Truss quantity : 119

Total quantity : 119

The MiTek® trusses are fabricated under the supervision of:

Signed:

Date:

Name of Supervisor:

On behalf of : Capital Precut Solutions

Capital Precut Solutions

Fixing Report : Page 1

Job: 02699

Client: A Customer
Phone:Site: Coates
Lot 5,
Kotakare Cres
New PlymouthDescription:
Building Consent No.:
10/04/2010 Engineering 4.9.6.138

MITek New Zealand Limited

Phone:

Printed: 13:29:45 01 Feb 2013

TRUSS FIXING SELECTION REPORT - Characteristic
Loads

Fixings are selected from the LUMBERLOK Brochure 03/4 (Timber Connectors Characteristic Loadings Data)

MITek Truss ListLegend: * = detail only, ? = input only, ~~xxx~~ = failed design, Ø = non certified, Unmarked trusses = designed successfully

Truss	Qty	Span (mm)	Joint	Down (kN)	Uplift (kN)	Bearing	Fixing
							Qty Selected
CT01	1	4990	F	2.728	1.160	Cross	1 Pair of Wire Dog Staples
			A	2.185	1.826	Cross	1 Pair of Wire Dog Staples
			J	3.503	2.507	Cross	1 Pair of Wire Dog Staples
CT02	1	4990	G	1.618	1.880	Cross	1 Pair of Wire Dog Staples
			A	1.554	1.214	Cross	1 Pair of Wire Dog Staples
			K	6.547	4.839	Cross	1 CT400
CT03	2	4723	A	2.195	1.845	Cross	2 Pair of Wire Dog Staples
			J	3.408	1.752	Cross	2 Pair of Wire Dog Staples
ET01	1	1550	F			Wide	No fixing selected
ET02	1	5180	A			Wide	No fixing selected
ET03	1	1550	F			Wide	No fixing selected
*HB01	2	4048					Refer NZS3604:2011 Tables 10.1 & 10.14
*HB02	2	6530					Refer NZS3604:2011 Tables 10.1 & 10.14
*HB03	1	6721					Refer NZS3604:2011 Tables 10.1 & 10.14
*HB04	1	3778					Refer NZS3604:2011 Tables 10.1 & 10.14
*HB05	1	1273					Refer NZS3604:2011 Tables 10.1 & 10.14
*HB05A	1	1274					Refer NZS3604:2011 Tables 10.1 & 10.14
HT01	1	4003	B	2.792	1.636	Cross	1 Pair of Wire Dog Staples
			J	3.565	1.851	Cross	1 Pair of Wire Dog Staples
J01	1	2112	B	2.733	0.912	Cross	1 Pair of Wire Dog Staples
			F	1.446	0.753	Butt	1 JH 47x90
			D	0.359	0.418	Butt	1 Pair of 3.15d Nails
J01A	1	2112	B	2.740	1.116	Cross	1 Pair of Wire Dog Staples
			F	1.217	0.792	Butt	1 Pair of 3.15d Nails
J01B	1	2112	B	2.740	1.116	Cross	1 Pair of Wire Dog Staples
			F	1.217	0.792	Butt	1 Pair of 3.15d Nails
J02	1	1212	B	2.714	0.557	Cross	1 Pair of Wire Dog Staples
			D	0.360	0.036	Butt	1 Pair of 3.15d Nails
			C	0.375	0.621	Butt	1 Pair of 3.15d Nails
J02A	1	1212	B	2.714	0.557	Cross	1 Pair of Wire Dog Staples
			D	0.360	0.036	Butt	1 Pair of 3.15d Nails
			C	0.375	0.621	Butt	1 Pair of 3.15d Nails
J03	1	2967	B	2.864	1.070	Cross	1 Pair of Wire Dog Staples
			E	0.223	0.336	Butt	1 Pair of 3.15d Nails
			D	2.267	2.318	Cross	1 Pair of Wire Dog Staples
J03A	1	2967	B	2.899	1.254	Cross	1 Pair of Wire Dog Staples
			G	1.919	1.227	Butt	1 JH 47x90
			E	0.305	0.427	Butt	1 Pair of 3.15d Nails
J03B	1	2967	B	2.899	1.254	Cross	1 Pair of Wire Dog Staples
			G	1.919	1.227	Butt	1 JH 47x90
			E	0.305	0.427	Butt	1 Pair of 3.15d Nails
J03C	1	2967	B	3.193	1.985	Cross	1 Pair of Wire Dog Staples
			H	2.036	1.882	Butt	1 JH 47x90
J03D	1	2967	B	3.193	1.985	Cross	1 Pair of Wire Dog Staples
			H	2.036	1.882	Butt	1 JH 47x90
J04	1	2067	B	2.727	0.894	Cross	1 Pair of Wire Dog Staples
			F	1.405	0.721	Butt	1 JH 47x90
			D	0.364	0.425	Butt	1 Pair of 3.15d Nails
J04A	1	2067	B	2.726	0.961	Cross	1 Pair of Wire Dog Staples
			F	1.176	0.670	Butt	1 Pair of 3.15d Nails
J04B	1	2067	B	2.727	0.894	Cross	1 Pair of Wire Dog Staples
			F	1.405	0.721	Butt	1 JH 47x90
			D	0.364	0.425	Butt	1 Pair of 3.15d Nails
J04C	1	2067	B	2.726	0.961	Cross	1 Pair of Wire Dog Staples
			F	1.176	0.670	Butt	1 Pair of 3.15d Nails
J05	1	3102	A	1.799	1.072	Butt	1 JH 47x90
			D	0.235	0.329	Butt	1 Pair of 3.15d Nails
			C	2.337	2.410	Cross	1 Pair of Wire Dog Staples
J05A	1	3102	B	2.931	1.308	Cross	1 Pair of Wire Dog Staples
			H	1.556	1.284	Butt	1 JH 47x90
			E	0.315	0.446	Butt	1 Pair of 3.15d Nails
J05B	1	3102	B	3.268	2.161	Cross	1 Pair of Wire Dog Staples
			H	2.288	2.159	Butt	1 JH 47x90
J05C	1	3102	G	1.297	0.841	Butt	1 JH 47x90
			D	0.426	0.558	Butt	1 Pair of 3.15d Nails
			E	4.158	0.628	Cross	1 Pair of Wire Dog Staples
J05D	1	3102	B	2.774	0.618	Cross	1 Pair of Wire Dog Staples
			I	1.659	1.007	Butt	1 JH 47x90
			E	0.319	0.447	Butt	1 Pair of 3.15d Nails
			F	1.195	0.475	Cross	1 Pair of Wire Dog Staples
J05E	1	3102	E	0.234	0.327	Butt	1 Pair of 3.15d Nails
			D	1.512	2.149	Cross	1 Pair of Wire Dog Staples
			F	4.122	0.490	Cross	1 Pair of Wire Dog Staples

Capital Precut Solutions

Fixing Report : Page 2

Job: 02699

Client: A Customer
Phone:Site: Coates
Lot 5,
Kotakare Cres
New Plymouth

Phone:

Description:
Building Consent No.:
M/Tek 2020 Engineering 4 & 6 138

M/Tek New Zealand Limited

Printed: 13:20:48 01 Feb 2013

Truss	Qty	Span (mm)	Joint	Down (kN)	Uplift (kN)	Bearing	Fixing	
							Qty	Selected
J06	1	2202	B	2.747	0.947	Cross	1	Pair of Wire Dog Staples
			F	1.525	0.820	Butt	1	JH 47x90
			D	0.350	0.402	Butt	1	Pair of 3.15d Nails
J06A	1	2202	B	2.808	1.339	Cross	1	Pair of Wire Dog Staples
			F	1.306	0.917	Butt	1	JH 47x90
J07	1	1302	B	2.699	0.592	Cross	1	Pair of Wire Dog Staples
			D	0.387	0.038	Butt	1	Pair of 3.15d Nails
			C	0.373	0.670	Butt	1	Pair of 3.15d Nails
J07A	1	1302	B	2.698	0.657	Cross	1	Pair of Wire Dog Staples
			D	0.640	0.327	Butt	1	Pair of 3.15d Nails
*R01	1	1075						Refer NZS3604:2011 Tables 10.1 & 10.14
*R01A	1	1075						Refer NZS3604:2011 Tables 10.1 & 10.14
*R01B	1	1075						Refer NZS3604:2011 Tables 10.1 & 10.14
*R01C	1	1075						Refer NZS3604:2011 Tables 10.1 & 10.14
*R02	1	1930						Refer NZS3604:2011 Tables 10.1 & 10.14
*R02A	1	1930						Refer NZS3604:2011 Tables 10.1 & 10.14
*R03	3	1063						Refer NZS3604:2011 Tables 10.1 & 10.14
*R03A	3	1063						Refer NZS3604:2011 Tables 10.1 & 10.14
*R04	1	1165						Refer NZS3604:2011 Tables 10.1 & 10.14
*R05	1	914						Refer NZS3604:2011 Tables 10.1 & 10.14
*R06	1D	6680						Refer NZS3604:2011 Tables 10.1 & 10.14
*R07	2	1560						Refer NZS3604:2011 Tables 10.1 & 10.14
*R07A	6	1560						Refer NZS3604:2011 Tables 10.1 & 10.14
*R08	4	1560						Refer NZS3604:2011 Tables 10.1 & 10.14
*R09	2D	2300						Refer NZS3604:2011 Tables 10.1 & 10.14
*R10	2	1560						Refer NZS3604:2011 Tables 10.1 & 10.14
*R10A	4	1560						Refer NZS3604:2011 Tables 10.1 & 10.14
*R11	1	1580						Refer NZS3604:2011 Tables 10.1 & 10.14
T01	1	4270	B	3.994	3.234	Cross	1	CT400
			F	3.994	3.234	Cross	1	CT400
T02	3	7780	B	4.798	3.559	Cross	3	CT400
			O	4.885	3.429	Cross	3	CT400
T03	1	4680	B	3.324	2.303	Cross	1	Pair of Wire Dog Staples
			F	3.324	2.303	Cross	1	Pair of Wire Dog Staples
T04	1D	4680	A	7.692	6.312	Cross	1	CT400
			E	11.369	9.221	Cross	1	CT400
T05	7	4680	B	3.146	2.067	Cross	7	Pair of Wire Dog Staples
			F	3.146	2.067	Cross	7	Pair of Wire Dog Staples
T06	1	8050	B	3.285	2.136	Cross	1	Pair of Wire Dog Staples
			H	2.745	1.118	Cross	1	Pair of Wire Dog Staples
			M	5.499	4.606	Cross	1	CT400
T07	2	5438	A	2.851	2.427	Butt	2	JH 47x90
			J	4.167	2.066	Cross	2	Pair of Wire Dog Staples
T07A	2	5438	B	3.394	2.475	Cross	2	Pair of Wire Dog Staples
			K	4.129	2.060	Cross	2	Pair of Wire Dog Staples
T07B	1	5438	B	3.370	2.480	Cross	1	Pair of Wire Dog Staples
			L	4.379	2.075	Cross	1	Pair of Wire Dog Staples
T08	1	5180	B	3.560	2.544	Cross	1	Pair of Wire Dog Staples
			F	3.560	2.544	Cross	1	Pair of Wire Dog Staples
T09	1	5180	B	10.229	9.084	Cross	1	CT400
			H	5.510	5.169	Butt	1	Pair of MultiGrips
T10	2	5180	B	3.230	2.207	Cross	2	Pair of Wire Dog Staples
			F	2.614	2.161	Butt	2	JH 47x90
T10A	4	5180	B	3.213	2.203	Cross	4	Pair of Wire Dog Staples
			F	3.213	2.203	Cross	4	Pair of Wire Dog Staples
T11	3	3102	A	1.830	1.389	Butt	3	JH 47x90
			G	1.830	1.606	Butt	3	JH 47x90
T12	2	4270	B	3.209	2.105	Cross	2	Pair of Wire Dog Staples
			F	3.209	2.105	Cross	2	Pair of Wire Dog Staples
TG01	1D	7780	B	8.813	7.627	Cross	1	CT400
			I	8.817	7.632	Cross	1	CT400
TG02	1	8050	B	4.417	3.511	Cross	1	CT400
			I	2.294	0.251	Cross	1	Pair of Wire Dog Staples
			R	10.057	9.120	Cross	1	CT400
TG03	1	5438	A	5.639	6.180	Butt	1	Pair of MultiGrips
			J	6.766	5.770	Cross	1	CT400
V01	1	1035	A			Wide		No fixing selected
V02	1	2970	A			Wide		No fixing selected
V03	1	1080	A			Wide		No fixing selected
V04	1	1676	A			Wide		No fixing selected
V05	1	776	A			Wide		No fixing selected
V06	1	1376	A			Wide		No fixing selected
V07	1	2130	A			Wide		No fixing selected
V08	1	1230	A			Wide		No fixing selected

Fixing List

Qty	Selected Fixing
81	Pair of Wire Dog Staples
18	CT400
24	JH 47x90
23	Pair of 3.15d Nails
2	Pair of MultiGrips
11	No fixing selected

Capital Precut Solutions

Fixing Report : Page 3

Job: 02699

Client: A Customer
Phone:

Site: Coates
Lot 5,
Kotakare Cres
New Plymouth

Phone:

Description:
Building Consent No.:
M/Tek 20/20 Engineering 4 B 0.138

M/Tek New Zealand Limited

Printed: 12 29 40 01 Feb 2013

Note:

- 1) Fixings have been selected based on loading only. Please check that selected fixings are practical for each situation and that appropriate nailing can be applied on site.
- 2) Fixings are selected from the LUMBERLOK Brochure 03/4 (Timber Connectors Characteristic Loadings Data) with down and uplift characteristic loads of at least the values shown for each joint.

THESE PLANS HAVE BEEN

SUPERSEDED

REPLACEMENT PLANS WILL BE IN
THE APPROVED OFFICE COPY.

BC: 114045 ADDRESS: 8 Pipitea Pl (TBC)

Amendment No & Date of Amendments that these superseded plans relates to are:

- | | |
|----------------|-----|
| 1. AMENDMENT | 6. |
| 2. 01 - 141212 | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |

THESE ARE TO BE **KEPT AND
SCANNED** AT THE END OF THE
PROJECT FOR FUTURE REFERENCE

SEE AMENDMENT
Dated: 14-12-12

GIB EzyBrace® 2011 Software



Demand Calculation Sheet

single storey

V06/11

Job Details

Name Coates
Street and Number Pipitea Place
Lot and DP Number Lot 5
City/Town/District New Plymouth
Designer T.A.Burbidge
Company Name Cavalier Homes
Date 22/08/2012



Select Lining Option

10 or 13 mm GIB® Plasterboard

Building Specification

Number of storeys single
Floor Loading 2kPa
Foundation Type slab

Cladding Weight heavy
Roof Weight light
Room in Roof Space no
Roof Pitch (degrees) 20
Roof height above eaves (m) 1.8
Building height to apex (m) 4.3
Ground to lower floor level (m) 0.3

Stud Height (m) 2.4
Building Length (m) 25.7
Building Width (m) 17.6
Building Plan Area (m2) 218

SUPERSEDED
NPDC

Complete Single Floor
Column only

Building Location

Wind Zone High
Select by Building Consent Authority Map
or Preference High
Wind Region Preference selected
Lee Zone Preference selected
Ground Roughness Preference selected
Site Exposure Preference selected
Topographic Class Preference selected

Earthquake Zone

1

Soil Type

D&E (deep to very soft)

Annual exceedance probability

1/500 (NZS3604:2011 default)

NPDC Approved
31 OCT 2012

Bracing Units required for Wind

Demand W (BU)
Walls single
along slab 782
across slab 1001

Bracing Units required for Earthquake

Demand along / across E (BU)
Walls
single
slab 875

SEE AMENDMENT
Dated: 14-12-12



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NOTE: All windows centered on room unless dimensioned

GS1N = GIB Standard Plasterboard

BL1-H = GIB Braceline

BLP-H = GIB Braceline / Plywood

BLG-H = GIB Braceline /GIB Standard Plasterboard

1 = lined one side

2 = lined both sides

a = angle brace

Panel Hold-downs

GS Bracing Systems do not require hold-downs.

All bracing systems incorporating GIB Braceline require a hold-down at both ends of the bracing element.

NPDC Approved
31 OCT 2012

CLIENT	ADDRESS	SHEET NAME		SCALE	NOTE
		BRACING PLAN		1:100	DO NOT SCALE DRAWINGS. DIMENSIONS TAKE PRECEDENCE
		DRAWN	DATE	SHEET	JOB NUMBER
MR & MRS COATES	PIPITEA PLACE NEW PLYMOUTH	TAB	23/08/12	W-06	195



Te Kaunihera-ā-Rohe o Ngāmotu

NEW PLYMOUTH DISTRICT COUNCIL

newplymouthnz.com

Code Compliance Certificate

Form 7, Section 95, Building Act 2004

The Building

Street Address of building: 8 Pipitea Place NEW PLYMOUTH 4310

Legal Description of land where building is located: Lot 5 DP 456743

Current, lawfully established use: Dwelling

Year first constructed: 2012

The Owner

Name of owner: Gail Patricia Coates
Gerald Douglas Coates

Phone number: (Bus.) 06 756 6049
(Pvt.) 027 481 2060

Contact Person: Cavalier Homes
Mailing Address: 123 Molesworth Street
NEW PLYMOUTH

Facsimile number: 06 756 6043

Building Work

Building Consent number:

BC12/114045

Description of work:

**Three bedroom dwelling with attached
double garage**

Issued by:

New Plymouth District Council

Code Compliance

The building consent authority named below is satisfied, on reasonable grounds, that –
(a) the building work complies with the building consent.

This is a final code compliance certificate issued in respect of all of the building work under the above building consent.

CODE COMPLIANCE CERTIFICATE

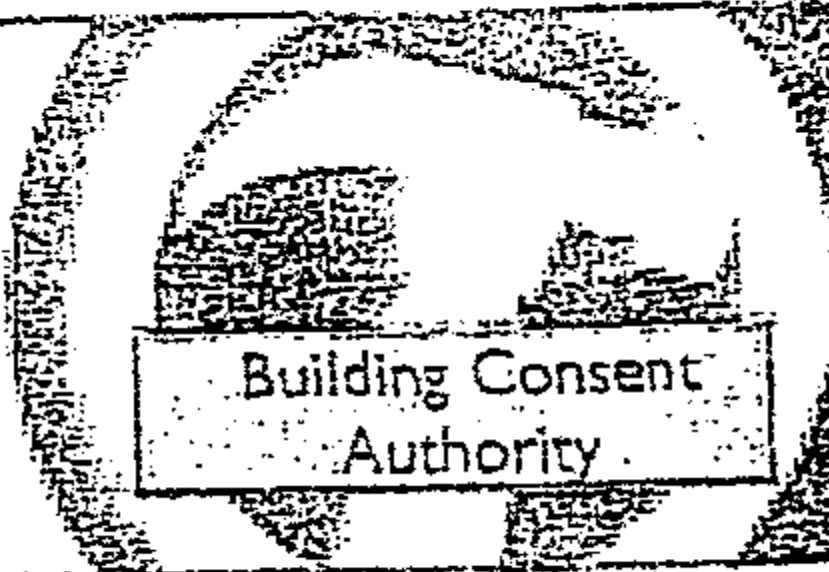
Team Leader Inspectorate

On behalf of: New Plymouth District Council

Date Issued: 15 October 2013



NEW PLYMOUTH
DISTRICT COUNCIL
newplymouthnz.com

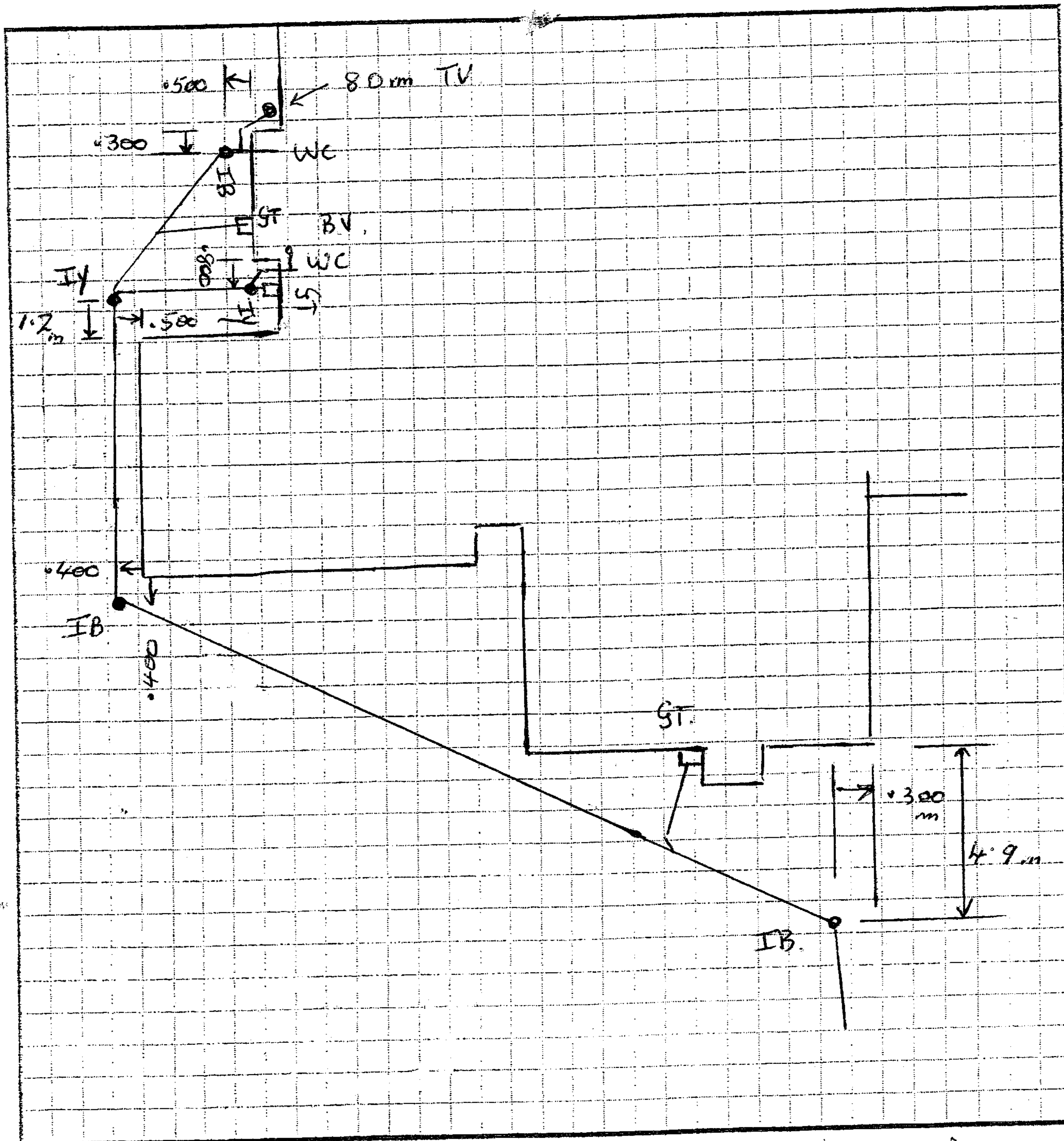


AS BUILT
DRAINAGE PLAN

Building consent BC: ¹²/114045 Address: 8 Pipitea Place

Drainlayer: 5 SAUL Registration No. 04514

Date: 14.2.2013 PID: 110844



Specify system used:

- ☒ G13/AS1
☐ AS/NZS: 3500

Note: Show terminal vent size, location,
and all relevant dimensions to inspection points

Receipt by the NPDC of this record does not imply endorsement of its accuracy.