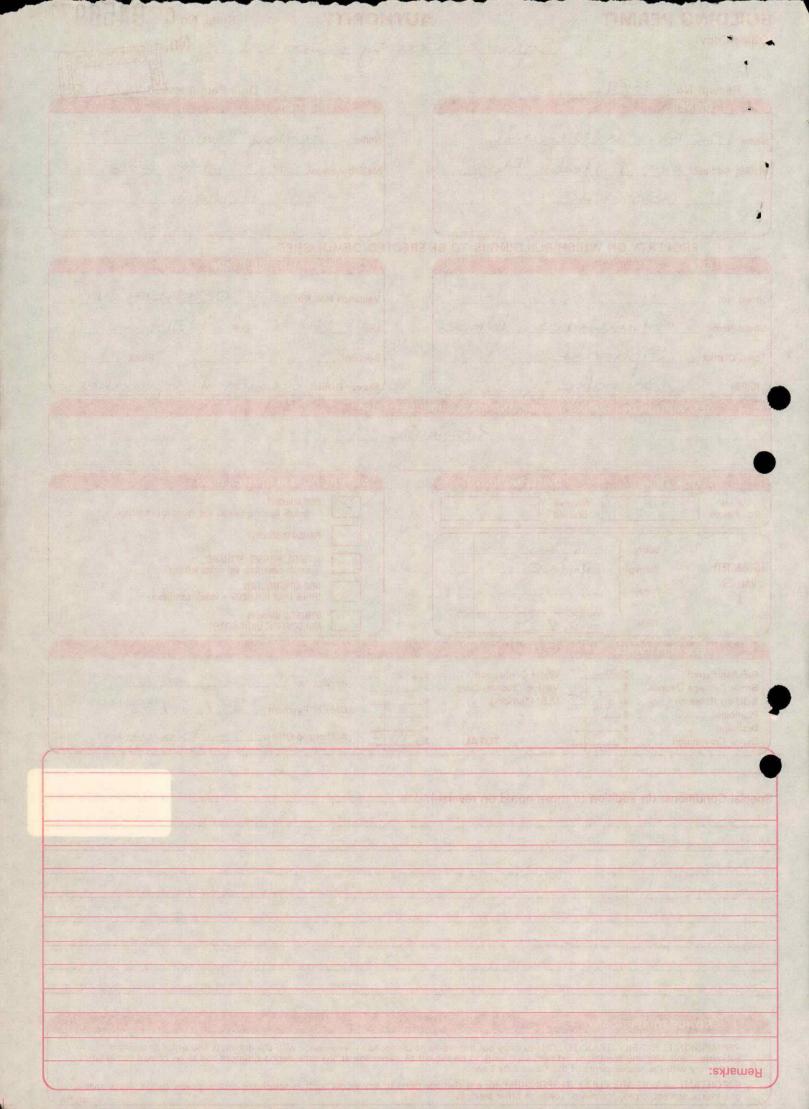
|  | HORITY Stats. No.C 045097  |
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| Egmont Cou   | nty Council No.  |
|  | O Branch Market  |
| Receipt No. 51514  | Date Permit Issued 19 / 9 / 9  |
| OWNER  | BUILDER  |
| Name L. a. Kettlewell  | Name Healey Homes  |
| Mailing Address el- 9 Heator Place   | Mailing Address PO Box 69.6  |
| Opunake  | Hawera.  |
| * The state of the |  |
| PROPERTY ON WHICH BUILDING IS TO BE EREC   | TED/DEMOLISHED   |
| SITE   | LEGAL DESCRIPTION  |
| Street No.   | Valuation Roll No. 11970 - 4-61 - 36   |
| Street Name Pohutukawa Brive   | Lot 8 D.P. 19361   |
|  |  |
| Town/District Opunake  | Section Block  |
| Riding Opunake   | (Survey District Boxough of Opunake)   |
| DESCRIPTION OF PROPOSED WORK AND MAIN PURPOSE (  | THE RESIDENCE OF THE PROPERTY  |
| Residence  |  |
|  |  |
| FLOOR AREA DWELLING UNITS  | NATURE OF PERMIT (TICK BOX)  |
| Whole Sq. Metres Number Erected  | NEW BUILDING  - exclude domestic garages and domestic outbuildings   |
| Building   31,00G  | FOUNDATIONS ONLY   |
| ESTIMATED Plumbing 1 000   | ALTERED, REPAIRED, EXTENDED  — include conversions and resited buildings   |
| VALUES Drainage  | NEW CONSTRUCTION OTHER THAN BUILDINGS — include demolitions  |
| 35   | DOMESTIC GARAGES   |
| TOTAL 33,000   | AND DOMESTIC OUTBUILDINGS  |
| FEES APPLICABLE  |  |
| Building Permit \$ 90 Water Connection \$ Vehicle Crossing Levy \$   | Receipt No.  |
| Building Research Levy . \$ 35 M.S. Plumbing \$ Plumbing \$  | Date of Payment 39/10/85   |
| Drainage   | Authorised Officer O Dalain  |
| Sewer Connection \$ TOTAL: \$ 117  | +  |
|  | WF WILL BE WELL BOOK OF THE STATE OF THE STA |
| Special Conditions: (In addition to those noted on reverse):   |  |
|  | PERMIT/025151  |
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#### NOTICE TO APPLICANT

PERMISSION IS HEREBY GRANTED YOU to carry out the works as proposed in accordance with the drawings and other documents submitted, and with any conditions defined; such work to be subject to inspection at any time during progress and to be carried out in strict conformity with the requirements of the Council By-Laws.

IMPORTANT — YOU ARE FULLY RESPONSIBLE for any damage done to any works such as telephone cables, power cables, water mains, gas mains, sewers, pipes, footpaths, roads or other services.

BC/MP/01A



| Inspector: M File No Date Permit Issued 19/ 9/85  Name   |
|--|
| Receipt No. 5154  OWNER  Name Healey Homes  Mailing Address Po Box 1916  Mailing Address Po Box 1916   |
| Name Healey Homes  Mailing Address P Heater Place  Mailing Address P Box 1916  |
| Mailing Address el- 9 Hector Place Mailing Address PO Box 1916   |
| Mailing Address el- 9 Hector Place Mailing Address PO Box 1916   |
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| Carran A   |
| Hawera.  |
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| PROPERTY ON WHICH BUILDING IS TO BE ERECTED/DEMOLISHED  SITE  LEGAL DESCRIPTION  |
|  |
| Street No. Valuation Roll No. 1970 - 1461 - 36   |
| Street Name Pohutukawa Brive Lot 8 D.P. 1936   |
| Town/District Section Section Block  |
| (Riding Opunake) Survey District Bosough of Opunake  |
| DESCRIPTION OF PROPOSED WORK AND MAIN PURPOSE OF USE   |
| Kesidence  |
|  |
| FLOOR AREA DWELLING UNITS NATURE OF PERMIT (TICK BOX)  Whole New Building  |
| Whole Sq. Metres Number Erected Proceed Proceed Proceed Proceed Proceedings Procedures P |
| Building FOUNDATIONS ONLY  |
| ESTIMATED Plumbing ALTERED, REPAIRED, EXTENDED  — include conversions and resited buildings  |
| VALUES  \$ Drainage     Drainage  |
| TOTAL 35,000 DOMESTIC GARAGES AND DOMESTIC OUTBUILDINGS  |
| FEES APPLICABLE  |
| Building Permit \$ Water Connection \$ Receipt No  |
| Building Research Levy \$ 55 M.S. Plumbing \$  |
| Drainage \$  |
| Sewer Connection \$ TOTAL: \$ Authorised Officer_  |
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| Special Conditions:  |
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## EGMONT COUNTY COUNCIL

The County Engineer,
Egmont County Council,
P.O. Box 19,
OPUNAKE.

Application for Building Permit:
Site of Proposed Building:

Site of Proposed Building:

Date

29-0-85

Receipt No.

Zone

Road/Street

Legal Description of Property: Lot No.

D.P. No. 19-3-6-1

| Site of Proposed Building:   | tulzauce           | Prive            | Road/Street                   |
|--|--------------------|------------------|-------------------------------|
| Legal Description of Property: Lot No.   |                    |                  | D.P. No. 12361                |
| Section No:  | Block              | :                |                               |
| Survey District: Borough of  | dae . Area:        |                  |                               |
| Name & Address of Owner: Mas   | XA. KIETTA         | EWIELL.          |                               |
| el B /deltloneall  | 9 Hector           | P. Opk           | according to locality         |
| Plan and detailed plans, elevations, cross<br>deposited herewith in duplicate. | ss-sections and s  | pecifications of | f building                    |
| Proposed Work: Residence   |                    | Floor Area:      | 75 sq metres                  |
| Builder: HEALIZY HOMIZE TARBAHAVI.   |                    |                  |                               |
| Craftsman Plumber: PENNING 9   | - Exermi           | STRATISE         | ORD.                          |
| Registered Drainlayers: Pauvinc &  | JORDAN             | 7.1              |                               |
| Application Fees   | Estima<br>Finished | ted<br>Value v   | Fees Payable with Application |
| Building   | \$3\$000           |                  | \$ 90 -                       |
| Sanitary Plumbing & Drainage   | \$ 4000            |                  | \$ 70 -                       |
| Building Research Levy on Finished Value (see back hereof for particulars)     | \$35000            | 0                | \$ 35 —                       |
| Urban Water Connection Fee   |                    |                  | \$                            |
| Urban Sewerage Connection Fee  |                    |                  | \$                            |
| Urban Vehicle Entrance   |                    |                  | \$                            |
|  | 111                |                  | \$ 195.00                     |
| Signature and Address of Applicant:  | FAIRIFICAD K       | lo HAWERA        |                               |
| Phone Number   | 6379               |                  |                               |
| Date   | 29/7/85.           |                  |                               |

Note: Fees according to the scale on back hereof must accompany the application for permit. Special Plumbing and Drainage application forms are required and these must be made by Craftsmen Plumbers or Registered Drainlayers, before a permit will be issued.

| For Office Use Only Check:        | Remarks: | Initials: |
|-----------------------------------|----------|-----------|
| Ordinances                        |          |           |
| P. & D. Regs                      |          |           |
| Building Regs                     |          |           |
| Fire Code                         |          |           |
| Structural Content                |          |           |
| Water/Sewerage Connection         |          |           |
| Kerb & Footpath Crossing          |          |           |
| Regn. Cert (Blding over \$20,000) |          |           |

Plans and specifications checked and approved subject to the following conditions:

Allenthoss.

#### COUNTY OF EGMONT

## Fees within Opunake Township:

| Water Connection    | \$100.00 |
|---------------------|----------|
| Sewerage Connection | \$100.00 |
| Vehicle Entrance    | \$140.00 |

## For the Information of the Applicants

Two copies of Plans and Specifications must be deposited, and one set will be returned together with the permit. All plans must be signed by the Architect, Engineer, or other person responsible for their productions.

Every applicant shall before the issue of a building permit, pay to the Council the following fees.

- (a) Fees for building permit according to scale shown hereunder.
- (b) Fees for sewer and water connections where Council services are required.
- (c) Cost of vehicular crossing as required by Council.
- (d) Building Research Levy according to the scale shown hereunder.

## Scale Of Fees For Building Permits Contract Price of Estimated Value of Building

| 1     | - | 200    | = \$5.00 | 10,001 | _    | 15,000 | = | \$50.00 |
|-------|---|--------|----------|--------|------|--------|---|---------|
| 201   | - | 500    | 7.00     | 15,001 | -    | 20,000 |   | 60.00   |
| 501   | - | 1,000  | 10.00    | 20,001 | -    | 30,000 |   | 75.00   |
| 1,001 | _ | 2,000  | 12.00    | 30,001 | -    | 40,000 |   | 90.00   |
| 2,001 | - | 3,000  | 15.00    | 40,001 | -    | 50,000 |   | 100.00  |
| 3,001 | _ | 4,000  | 20.00    | 50,001 | -    | 60,000 |   | 110.00  |
| 4,001 | - | 5,000  | 25.00    | 60,001 | 1000 | 70,000 |   | 120.00  |
| 5,001 | - | 10,000 | 40.00    |        |      |        |   |         |

For each \$20,000 in excess of \$70,000 an additional fee of \$10.00 is payable.

# Drainage and Sanitation Plumbing fees

| \$ 1  | but not | exceeding | \$200 |     |     |     | <br>    | ••• |     | ••• | \$ 6.00 |
|-------|---------|-----------|-------|-----|-----|-----|---------|-----|-----|-----|---------|
| 201   | but not | exceeding | 400   |     |     | ••• | <br>••• | ••• |     |     | 8.00    |
| 401   | but not | exceeding | 600   | ••• | ••• | ••• | <br>    | ••• |     |     | 10.00   |
| 601   |         | exceeding | 800   | ••• |     |     | <br>••• | ••• | ••• | ••• | 15.00   |
| 801   | but not | exceeding | 1,000 |     |     | ••• | <br>    | ••• | ••• | ••• | 18.00   |
| 1,001 | but not | exceeding | 1,200 |     |     |     | <br>••• | ••• | ••• | ••• | 20.00   |
| 1,201 | but not | exceeding | 1,400 |     |     |     | <br>    | ••• | ••• | ••• | 25.00   |
| 1,401 | but not | exceeding | 1,600 |     |     | ••• | <br>    |     | ••• | ••• | 30.00   |
| 1,601 |         | exceeding | 1,800 |     |     |     | <br>    | ••• |     | ••• | 35.00   |
| 1,801 |         | exceeding | 2,000 |     |     |     | <br>    |     |     |     | 40.00   |
| 2,001 |         | exceeding | 3,000 |     |     |     | <br>    |     |     |     | 50.00   |
| - 30  |         | 0         |       |     |     |     |         |     |     |     |         |

Plus \$2.00 for each additional \$100 or part thereof. (\$20 per \$1000 extra)

## Building Research Levy

A levy of \$1.00 per \$1,000 or part thereof of the whole value applies to all buildings valued at \$10,000 or more - e.g. a building valued at \$11,000 incurs a levy of \$11.00. The Council acts as a collecting agency for the Building Research Association of New Zealand and the levy should be paid together with the building permit fee.

#### Note:

#### Plans

The following metric plans and specification must be lodged in duplicate with all applications -

Locality sketch, site plan (showing distances from boundaries), floor plan, drainage plan, four elevations, cross sections, specifications.

For structures involving structural steelwork or beams, a registered Engineers Design certificate is required. All drawings shall be in duplicate, scales of 1:50 and 1:100 are recommended, single line sketches or pencil drawings will **not** be accepted.

# EGMONT COUNTY COUNCIL Accessory Building Specification

| SPECIFICATION FOR  |  |  | (Type of Building  |
|--|--|--|--|
| TO BE CONSTRUCTED FOR _  |  |  |  |
| AT   |  |  | (Address   |
| (This specification sheet may baccessory to residential building commercial or residential build any omissions or special featur reinforced concrete frames and  | e used for simpgs or farming.<br>ings. Additiona<br>es such as high                    | ole wooden frame It will not be accord specifications will foundations, structure. | cepted for industrial,<br>ill be required to cover   |
| Foundations:   |  |  |  |
| Piles: Size  | Material   |  | Size Footing   |
| Spacing in rows  |  | Spacing between  | rows   |
|  |  |  |  |
| Footing for Walls: Width of footing  |  | Depth of Footing   | g  |
| Wall thickness   |  |  | dia.   |
|  |  |  |  |
| Vertical reinforcing re  | ods diam   | 1  | Spacing  |
| Horizontial reinforcin   | g rods diam.   |  | Spacing  |
|  |  |  |  |
| Floors - Timber:   |  | S:   |  |
| Cl. T. of timb   |  | Size   |  |
| Sleeper plates: Type of timber   |  |  | Spacing  |
| Floor Joists: Type of timber Flooring: Type of timber Floors - Concrete:   | er   | Size Size  | Spacing  |
| Floor Joists: Type of timber Type of | er Reinforcing   | Size Size  | Spacing  |
| Floor Joists: Type of timber Flooring: Type of timber Floors - Concrete: Thickness   | er Reinforcing   | Size Size  | Spacing  |
| Floor Joists: Type of timber Flooring: Type of timber Floors - Concrete: Thickness Course  | er Reinforcing   | Size Size Size   | Spacing  |
| Floor Joists: Type of timber Flooring: Type of timber Floors - Concrete: Thickness Course Walls - Timber: Plates, Top Type of timber   | er Reinforcing   | Size Size Size Size Size   | Spacing Damp Pro   |
| Floor Joists: Type of timber  Floors - Concrete: Thickness Course  Walls - Timber: Plates, Top Type of timber Studs: Type of timber Bracing: Type of timber  | er Reinforcing  er er er er  | Size Size Size Size Size Size Size Size  | Spacing Damp Pro Spacing   |
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| Full Details _   |                  |                     |                     |                      |
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| side boundary    |                  |                     |                     | metres               |
| back boundary    |                  |                     |                     | metres               |
| oosal of Sewag   | e                |                     |                     |                      |
|                  |                  |                     | New Appropries      |                      |
| fluent disposal  |                  |                     |                     |                      |
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|                  |                  |                     |                     |                      |
| to be in milli   | metres.          |                     |                     |                      |
|                  |                  |                     |                     |                      |
| the work shall   | be carried ou    | t in accordance w   | ith the best trac   | le                   |
| lete with all ne | ecessary joiner  | y, glazing, flashir | ng, scribing, facir | ngs,                 |
| spouting, down   | pipes, ridging,  | etc., with all exp  | The Council's       |                      |
|                  |                  |                     | Council o           |                      |
| Signed           |                  | (Ap                 | policant)           |                      |
|                  | rcing            | rcing               | Length    Vall      | Length Depth    Pall |

# Note:

A Floor Plan and elevation to a scale of 1:50 or 1:100 and a Site Plan are to be submitted in duplicate with the specifications.

HEALEY HOMES (Taranaki) P.O. BOX 626 HAWERA TELEPHONE 86379

# GENERAL SPECIFICATION

GENERAL: Owners responsibility to ensure the correct position of all survey pegs, positioning of the home and consultation with main contractor on site to verify all measurements. The Owner shall ensure site access.

<u>CONTRACT</u>: The Contractor supplies and delivers all materials, labour, fittings, tools, plant etc, to complete the building as on the drawings and herein specified, in a tradesmanlike manner, in accordance with the local By-Laws. The Owner shall not select or supply any goods whatsoever other than supplied by Contractor.

SERVICES: Up to 5m for all services from the home.

TELEPHONE: Owners responsibility to arrange.

PERMITS: Contractor to comply with the Labour and Building By-Laws of the district and to apply for and obtain all necessary permits.

INSURANCE: Contractor shall cover by 'Fire Insurance' to 100% of value of buildings, and his employees (except sub-contractors) shall be covered by 'Employer's Liability'. Both policies held until buildings taken over by owner.

MATERIALS & WORKMANSHIP: All workmanship must be careful, thorough and in accordance with standard trade practice and all materials as specified, and in accordance with Local Body By-Laws and the NZS 3604:1978.

STABILITY: The Contractor shall carefully brace and support all parts of his work against damage by wind and also protect same from damage by water.

# CARPENTER AND JOINER:

All materials are of good quality, laid true, leveled and in a tradesmanlike construction used to comply with the Local By-Laws.

FOUNDATIONS: 140mm S E D natural round or square E&B timber piles set on concrete pads as required by NZS 3604. Maximum length 600mm.long on level section.

STRINGERS: To be 100 x 75mm on edge. All joints to be scarfed or alternatively but jointed with a nail plate fixed each side over solid bearings.

FLOOR JOISTS: Provide an even surface and 90mm nails to stringers and bearers. Joists over a solid bearing. Double joists under and exterior walls.

PLATER: Straight with nail-plates at joints, corners and intersections.

INTERIOR WALL PARTITIONS: Trower or similar partitioning according to NZS 3604.

ROOF FRAMING: 'Pryde' or 'Gangnail' trusses fixed as required NZS 3604. Fix 100mm x 50mm purlins at approximately 900mm centres.

BASEBOARDS: 2 only 150mm x 25mm rough sawn timber fixed horizontally approximately 20mm spacings, 100mm clear of ground on level section.

EAVES: Barge. Allow the rafters to overhang and cut off plumb. Fix prefinished Facia/Barge - Klass/Taylor facia gutter system. Scofit, boxed and lined with fibrolite sheets. Finished as detailed. Colour bone white standard.

1

EXTERIOR SHEETING: 300mm Hardiplank plain weatherboards. Lay boards with 30mm laps All corners to be covered with galvanised soakers.

<u>FLOORING</u>: All floors to be covered with high density particle board nailed with all nails punched below floor surface. On completion of all trades, clean off bye wood to an even surface with a sanding machine. Floor Sanding - One cut only.

NOGGING: Nogging to be as required NZS 3604.

INSULATION: Floor, walls and ceilings insulated to Government thermal requirements. Walls, Gibfoil insulation board. Ceilings, Insulfluff.

CEILINGS: All ceilings, gibralter board with Glamatex or similar. Provide 500mm x 500mm man hole.

SCOTIA & SKIRTING: No 8 Bevelled Scotia. No 21 Bevelled skirting, paint grade.

<u>LININGS</u>: Interior walls lined with 9mm Gibraltar board, nailed with 30mm galvanised flat heads on joints every 150mm and intermediate studs and nogging every 225mm. All stopping with Plaster of Paris filled to an even surface.

WARDROBES, LINE & HOTWATER: Full height walls and ceilings lined. Wardrobe 1,225mm hat shelf and hanger rail 160mm above floor. Line, 5 full width shelves at 400mm spacings. Hotwater, shelves as detailed. Provide doors.

<u>KITCHEN CUPBOARDS ETC</u>: Construct kitchen cupboards, and sink unit where shown on plan. Sinktop stainless steel.

 $\underline{\text{JOINERY}}$ : All exterior doors, frames and sills and windows to be silver anodised aluminium fitted with 19mm reveals grooved to take lining.

<u>DOORS</u>: Interior paint grade flush doors in 30mm jambs grooved to take lining. Fit with standard hardware latch sets.

BATHROOM: Bath standard Plix 1525mm to be built in, framed and timber splash board provided. Fit Plix handbasin to wall on brackets, no vanity, no towel rail, no mirrors and no soap holders.

LAUNDRY: Provide fabricated stainless steel tub and standard timber cabinet.

<u>ROOF</u>: Galvanised corrugated steel roofing. Under roofing lay tightly stretched wire netting and on top of this lay building paper fixed to NZS 3604.

| TIMBER SCHEDULE               | SIZE              | GRADES TO NZS 3604 SPACING       |
|-------------------------------|-------------------|----------------------------------|
| Jack Studs                    | 100 50            | N 1 m 07 D                       |
|                               | 100 x 50          | No 1 Tan C7 Pine                 |
| Sleeper Plates                | 100 x 75          | No 1 Tan C7 Pine                 |
| Foundation Bracing            | 100 x 75          | No 1 Tan C7 Pine                 |
| Base Boards                   | 150 x 75          | No 1 Tan C7 Pine Pine-Rough Sawn |
|                               | 50 x 25           | No 1 Tan C7 Pine                 |
| Floor Joists                  | 150 x 50          | No 1 Boric Treated Pine 600      |
| Top & bottom plates & studs   | 100 x 50          | No 2 Boric Treated Pine          |
| Window Lintels up to 3600     | 2/300 x 50        | No 1 Boric Treated Pine          |
| Window Lintels up to 3200     | 2/250 x 50        | No 1 Boric Treated Pine          |
| Window Lintels up to 2400     | 2/150 x 50 .      | No 1 Boric Treated Pine          |
| Window Lintels up to 1500     | 2/100 x 50        | No 1 Boric Treated Pine          |
|                               | 100 x 50          | No 2 Boric Treated Pine          |
| Ceiling Runners- (truss roof) | 75 x 50           | No 2 Boric Treated Pine 2400     |
| Dwangs                        | 100 x 50          | No 2 Boric Treated Pine 1200     |
| Flooring                      | 20mm High Density | Particle Board                   |
| Internal Door Jambs           | 30mm Paint Grade  |                                  |

### PLUMBER

<u>WATERPROOF</u>: Leave the building absolutely waterproof in every respect. Flash all openings through roof. Any part or parts not specified and necessary to make the building water-tight shall be as mentioned, with appropriate materials.

DOWN PIPES: Round - 80mm diameter P.V.C.

WATER PIPES PVC POLYBUTYLENE & HOT WATER: Main supply to house to be 19mm Alkathene. Polybutylene for hot and cold water fitted with all necessary bends, tees, elbows etc and with all joints to basin, sink, tub, and bath. Install an approved electric hot water cylinder 136 litre capacity with element and thermostat and all necessary connections. Cold water to WC.

<u>WASTES</u>: Baths, tub and sink to have PVC traps and wastes. All wastes to discharge over gully traps. All sanitary plumbing to be installed by a registered plumber by the Health Department and Sanitary Inspector.

TAPS: All taps, chromium plated signature bib and pillar cocks with indicators for 'Hot and Cold'. One hose tap and stop cocks to be brass.

W.C: To be installed complete with white earthen ware pan, seat etc. Low set flush cistern pipe, PVC pipes, fittings and vent.

DRAIN DIGGING: Drainlayers responsibility. Back fill after inspection.

## DRAINLAYER:

<u>DRAINAGE</u>: Lay all necessary drains from traps and WC to town sewer. All pipes and connections to be 110mm PVC Drainage system laid to a true and even fall. The whole of the drainage and sanitary arrangements to comply with the By-Laws and to the satisfaction of the Sanitary Inspector.

## PAINTER AND PAPERHANGER:

MATERIALS: All materials are of good quality and workmanship in a tradesmanlike manner. All woodwork to be sanded between coats. Exterior woodwork to receive one coat of first quality priming. Putty all nail holes and finish with two coats of approved paint.

HARDIPLANK, GABLE ENDS, SOFFIT, BASEMENT: Painted to standard colour scheme. Wardrobes, Linen Cupboard, Hot water Cupboard and Pantry interior unpainted.

COLOURS: Standard colour white, other colours or more than one in a room shall be extra.

WALLPAPER: All walls to be sealed before papering to samples enclosed.

ROOF: Painting of roof to be owners responsibility.

 $\overline{\text{EXTRAS}}$ : All extras to be paid to Builder within 5 days of agreed price given. Payments not received will revert back to standard lines.

<u>LEINS RETENTION MONEY:</u> To be held for the purpose it is held for. Namely paying subcontractors that have not been paid, and not for maintenance. After a thirty day period, all money to be paid out. A 22% interest charge on all overdue money, including extras.

## ELECTRICIAN:

The Electrician will make the necessary notification to the Local Power Board. All work to be carried out to the satisfaction of the Power Board and the Underwriter's Association.

## METER PANEL:

Provide and fix one meter panel complete externally. Where required by Local Authority Fuse Panel internally.

SWITCHES: Provide and fix switches to all light points.

LIGHTS: Provide and fix one light point to each room and hall where indicated on plan and two outside lights, all with lamps.

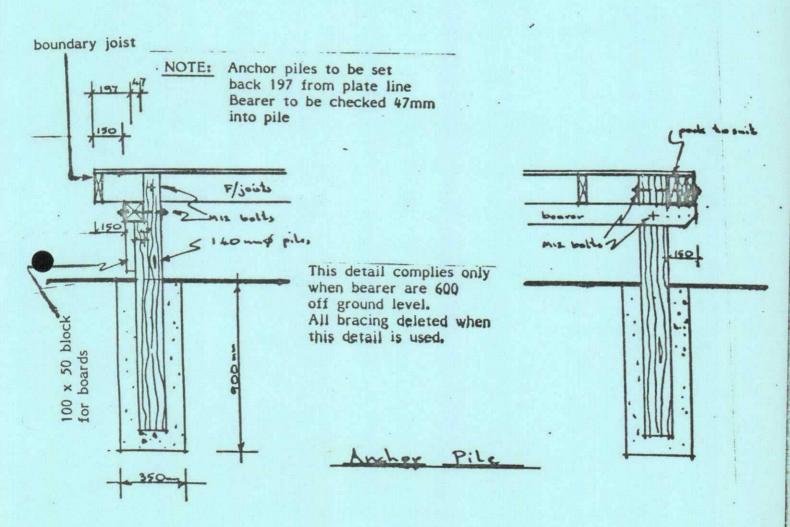
POWER: Provide and fix a total of 5 power points where indicated on the plan and make connections to hot water cylinder and stove.

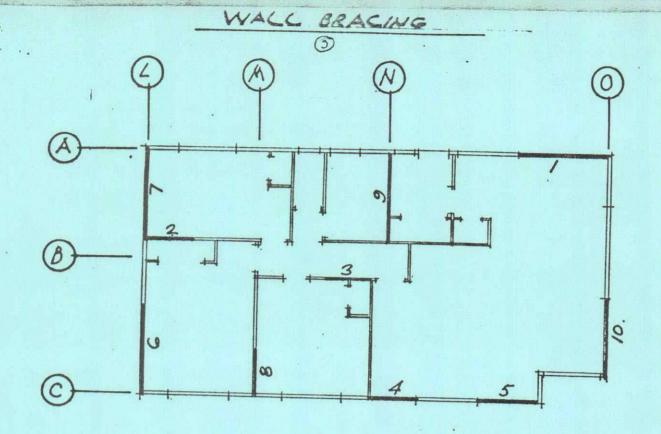
STOVE: A Moffat Consul 3 plate electric stove installed where shown.

COMPLETION: On completion all to clear all debris and the like from the site.

BUILDER: Responsibility for tiding up section.

ANY AMENDMENTS TO THIS SPECIFICATION OR PLAN WILL BE SHOWN ON AN ADDENDUM.





Loof Type: light. Roof Pitch: 0-25.

Wind Area: High. Earthquete Zone: 8.

Koof Length B.C. = 13.2m. Roof Width B.W = 7.8m

Gross Area = 102.26 m².

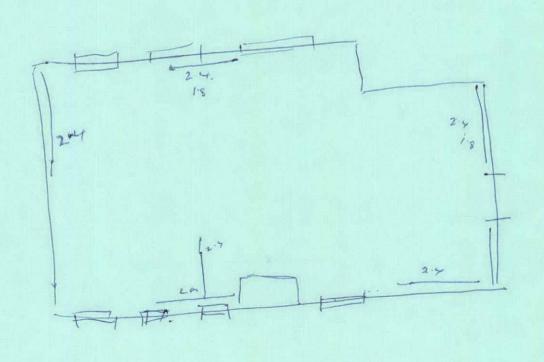
For Lathquete 2x GM = 3x 102.96 = 308.88 B.Us.

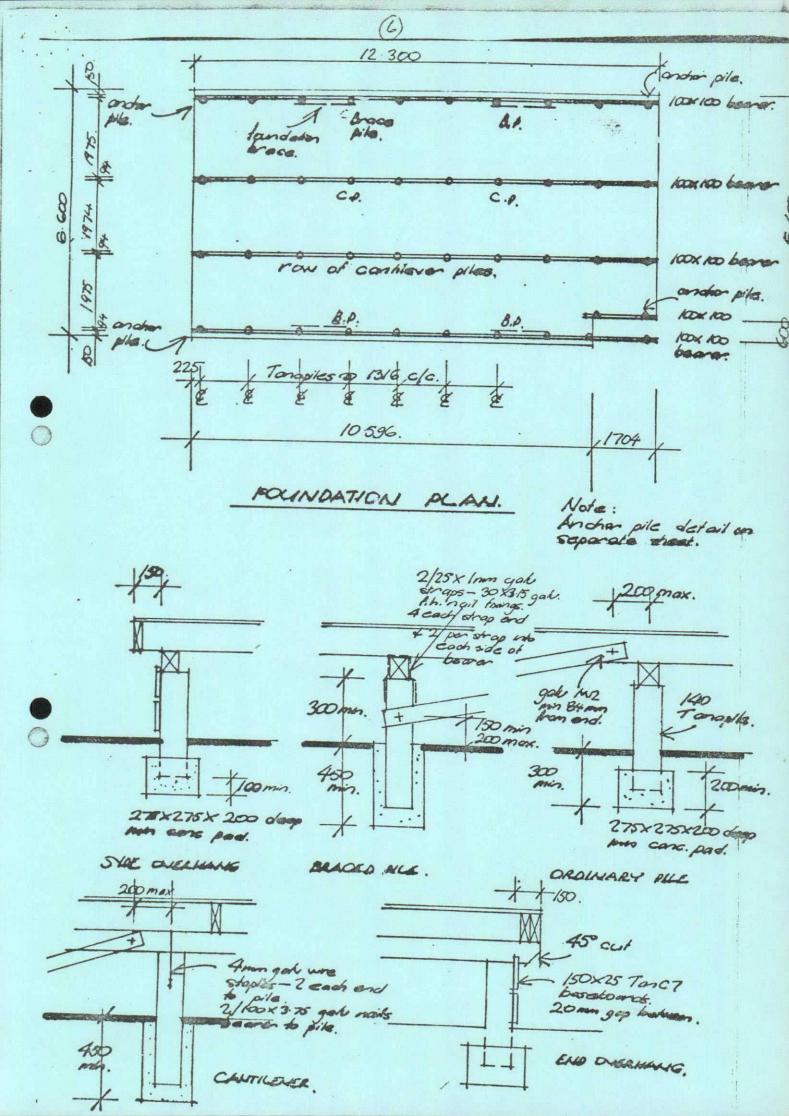
Lan Wind:

Alang - Wx BW. = 33x 7.8 = 257.4 B.Us regd.

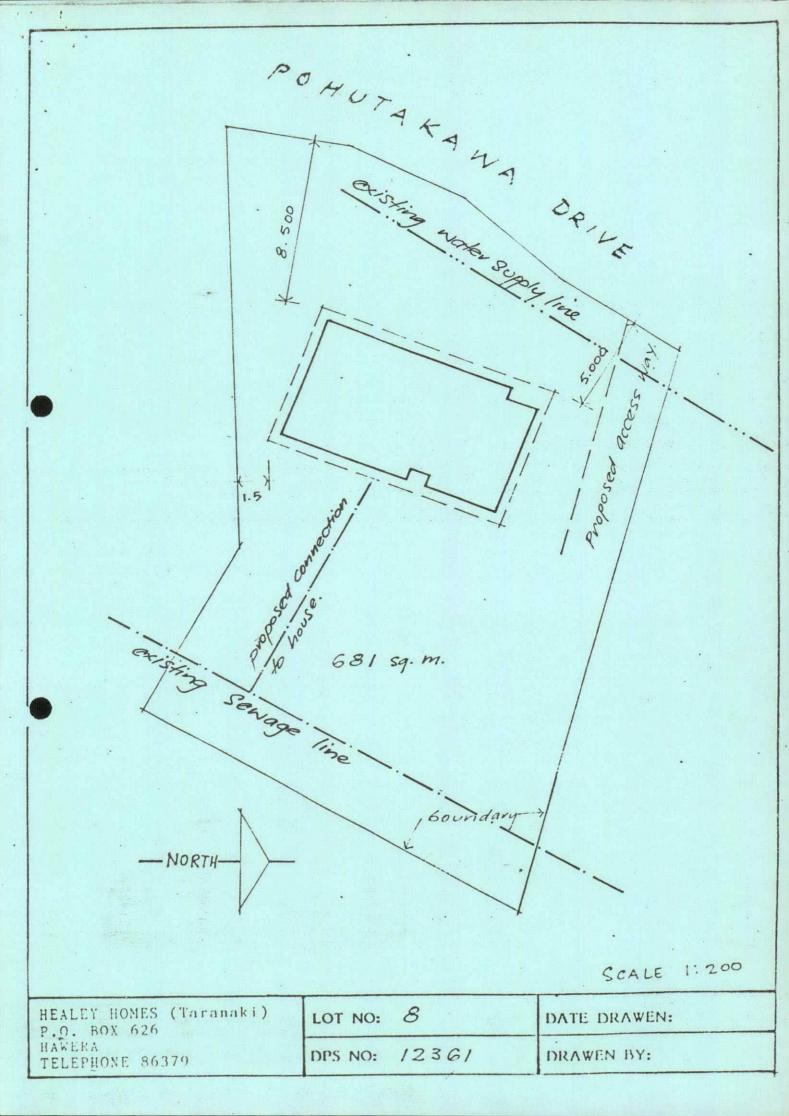
Advance Wx B.L. = 33x 18.2 = 435.6 B.Us regd.

| Potal B.Us | Brace | B. Us regd. | Brace | Brace<br>Type. | Rates            | Longton                    | 18.Us 1 |
|------------|-------|-------------|-------|----------------|------------------|----------------------------|---------|
| Nong .     | A     | /32         | 1     | 1              | 845/m.<br>42     | 1.5×2.2<br>= 3.3           | 13.8.6  |
|            | 8     | 70.         | 2 3   | Trans.         | 72 per<br>1.2 m. | 1.2                        | 72 72   |
|            | С     | /32         | 4 5   | 1              | 42 42            | 1.5x1.2=1.8.<br>15x1.6=2.4 | 75.6    |
| 308.88     | Total | 334.        |       |                |                  | Total.                     | 459     |
| Acres      | 4     | 78          | 6     | /              | 42               |                            |         |
|            |       | ,,,         | 7     | 1              | 42               | 2.4                        | 100.8   |
|            | 14    | 70.         | 8     | Traver         |                  | 1.2.                       | 70      |
|            | ~     | 70.         | 9     | 2              | 62               | 2.3                        | 72      |
|            | 0     | 78          | 10    | ,              |                  | 2.3                        | 142.6   |
|            |       | 10          | 10    | /              | 42               | 2.0                        | 84.0    |
| 435.G      | Total | 296         |       |                |                  |                            |         |
|            |       |             |       |                |                  |                            | 500.7   |





(1)





4- Rf7 | APRIL 1981

#### PRODUCT INFORMATION

This document has been prepared as a guide to the designer, specifier and installer of Gib Foil insulation for use in building construction. Gib Foil is produced by Winstone Wallboards Ltd to provide thermal insulation and vapour resistance (vapour barrier) properties. Gib Foil comprises standard Gibraltar Board with polished aluminium foil adhered to the reverse side.
Gib Foil should not be used in damp or wet conditions or in direct contact with materials containing free-lime or cement.

#### STANDARD COMPLIANCE

Gib Foil complies with NZS 1340 'Specifications for materials for the thermal insulation of buildings' — Part 4 Reflective Foil Thermal Insulation Materials.

Means of compliance with NZS 4218P 'Thermal Insulation Requirements For Residential Buildings' are shown in sections B and C of this document.

## SECTION A—PERFORMANCE

#### THERMAL EMITTANCE

 $= 0.03 \pm 0.01$ 

At room temperature as evaluated by CSIRO Division of Mechanical Engineering, Highett, Victoria, Australia.

#### TABLE 1

(Reproduced from NZS 4214) Thermal Resistance of an enclosed air space with Gib Foil on one face. R = m²°C/W

| Heat Flow  | Width of Air Gap (mm) |      |      |                |
|------------|-----------------------|------|------|----------------|
|            | 10                    | 20   | 40   | 100 or<br>more |
| Up         | 0.30                  | 0.41 | 0:43 | 0.47           |
| Horizontal | 0.35                  | 0.61 | 0.64 | 0.64           |
| Down       | 0.45                  | 0.65 | 1.10 | 1.60           |

## FIRE HAZARD INDICES

(Tested to AS 1530 Part 3 1976)

Ignitability Index : 0 Spread of Flame Index : 0 Heat Evolved Index : 0 Smoke Developed Index : 0 A BRANZ test report is available upon request from Winstone Ltd.

#### CORROSION

(Tested to AS 1094: 1976)

No corrosion after 28 days at 100% RH and 60°C. Gib Foil does not burn, will not support the growth of fungus bacteria or vermin, and is not affected by age.

### VAPOUR RESISTANCE

Gib Foil is widely recognised as a vapour barrier for use in conjunction with other forms of bulk insulation.

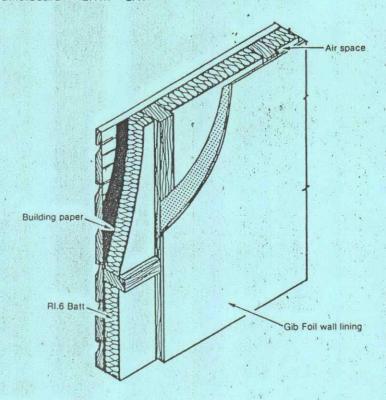
9.5 Gib Foil Vapour Resistance = 200 MNs/g 9.5 Gibraltar Board

Vapour Resistance = 0.4 MNs/g

Gib Foil is not recommended for use as a vapour barrier in cool stores.

Wall thermal resistance (R) m2 °C/W

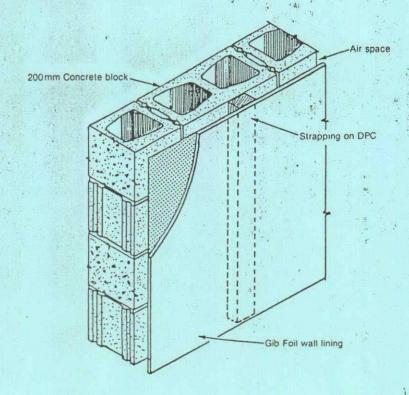
Studs at 600 mm and 2 rows nogs
With Asbestos Cement weatherboard = 2.0 m² °C/W
With timber weatherboard = 2.1 m² °C/W



TYPE 'B' CONSTRUCTION

Wall thermal resistance (R) m² °C/W

Thermal Resistance = 0.90 m² °C/W



# SECTION C-SPECIFIC THERMAL DESIGN

Gib Foil provides the wall insulation for a thermal envelope that has been the subject of a specific thermal design. Where compliance with NZS 4218P is obtained by specific thermal design, compliance with section 2 of that standard is not required.

The thermal envelope allowable under the specific design is as detailed in Table II and allows for any type of exterior wall and roof cladding.

The combinations have been shown to comply with the requirements of NZS 4218P. Where required the conculting engineer's report is available upon request from Winstone Limited.

#### LIMITATIONS

(Buildings outside the following limits would require checking to verify compliance).

- (a) Floor area exceeding 130 m², glazed area not to exceed 70% total wall area.
- (b) Floor area exceeding 200 m², glazed area not to exceed 60% total wall area.
- (c) Truss spacing not less than 900 mm
- (d) Ceiling joist spacing not less than 450 mm
- (e) Single storey construction only but including uninsulated basement areas such as garages.

#### TABLE II

### Specific Thermal Design - Permitted Combinations

| the second secon |                    |                              |
|--|--------------------|------------------------------|
| Ceiling<br>Insulation  | Wall<br>Insulation | Floor<br>Insulation          |
| R 3.3 Fibreglass or 150 mm Glass wool or 135 mm Cellulose Fibre or 125 mm Mineral  | Gib Foil           | Draped Foil or Concrete Slab |
| Wool   |                    | AND MARKET STREET            |

"Note — The above table complies with NZS 4218P by means of the Specific Thermal Design option. In NZS 4218P Specific Thermal Design refers to a thermal design for a particular building. The tables derived above, however have been shown in the consultants report (No. 208963) to provide compliance with NZS 4218P for a very wide range of building shapes, colours, window details and for all NZ urban climates. Thus they may be used by local bodies to infer compliance with the Specific Thermal Design clause in NZS 4218P."

GIBRALTAR BOARD PRODUCTS

Manufactured by Winstone Wallboards Ltd.

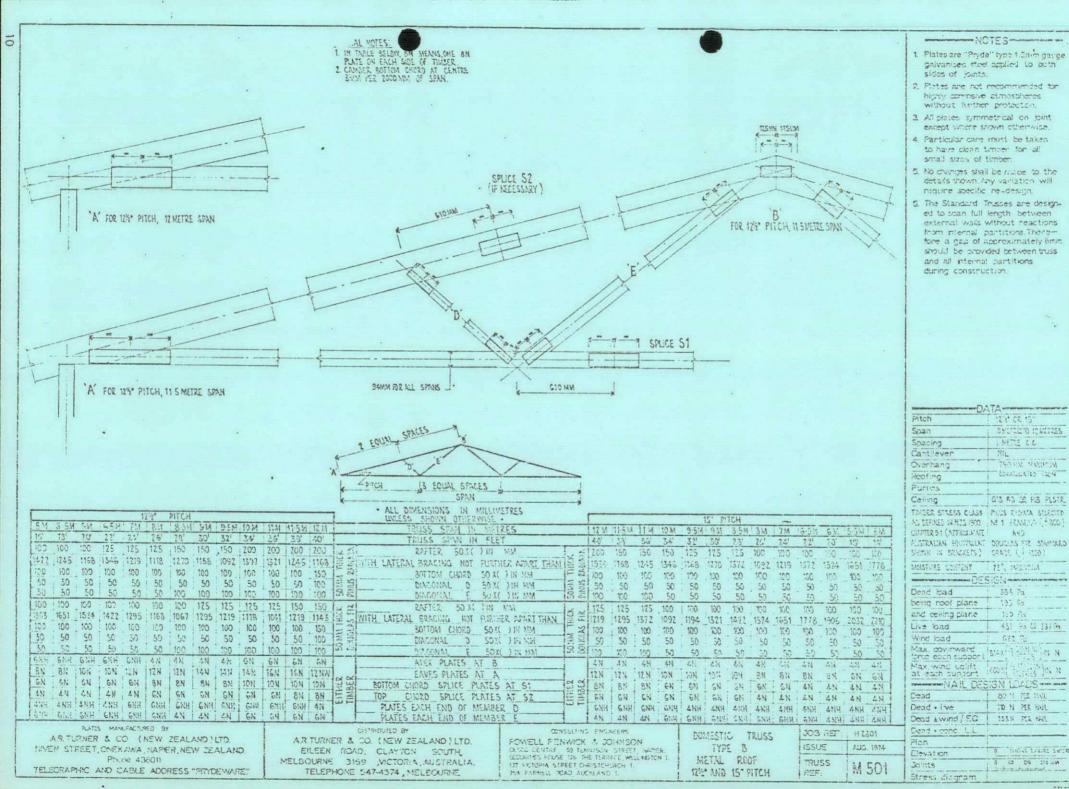
Distributed by Winstone Limited.

WINSTONE

Auckland Christchurch Hamilton Wellington Whangarei Phone: 592-809 792-132 495-999 845-609 82-099

Branches and distributors throughout New Zealand.

The information contained herein is believed to be correct and no liability is accepted for any loss which may be sustained arising from the use of the information.



"Z"t" CR 15"

METRE CC

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AND

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21 N

, DONALD VICTOR ANDERSON, being register of under the provisions of the Engineers' Register on Act 1924, and currently holding an Annual Practisis. Certificate, hereby certify that I have supervises the design of and the computations for the Standard Trusses detailed on our Drawings numbered H2301/A501, A502, B501, B502, C502, D501, G501, G502, HT500, HT501, HT502; 1501, 1502, 1503, M501, M502, P400 and P600, P800 and P1000 and C501, issued July, August and September, 1974, H2464/HT503, HT504, and HT505 issued September 1975, and H2493/M601 issued November 1975.

I FURTHER CERTIFY that these Standard Trusses have been designed in accordance with sound and widely accepted engineering principles; that they have been designed to support the dead, live and wind loads as noted on the drawings, and further that I have ascertained to the best of my ability that the stresses and combinations of stresses in the various materials of construction under the above loads will not exceed the maxima to ensure safety and stability if constructed in accordance with these plans.

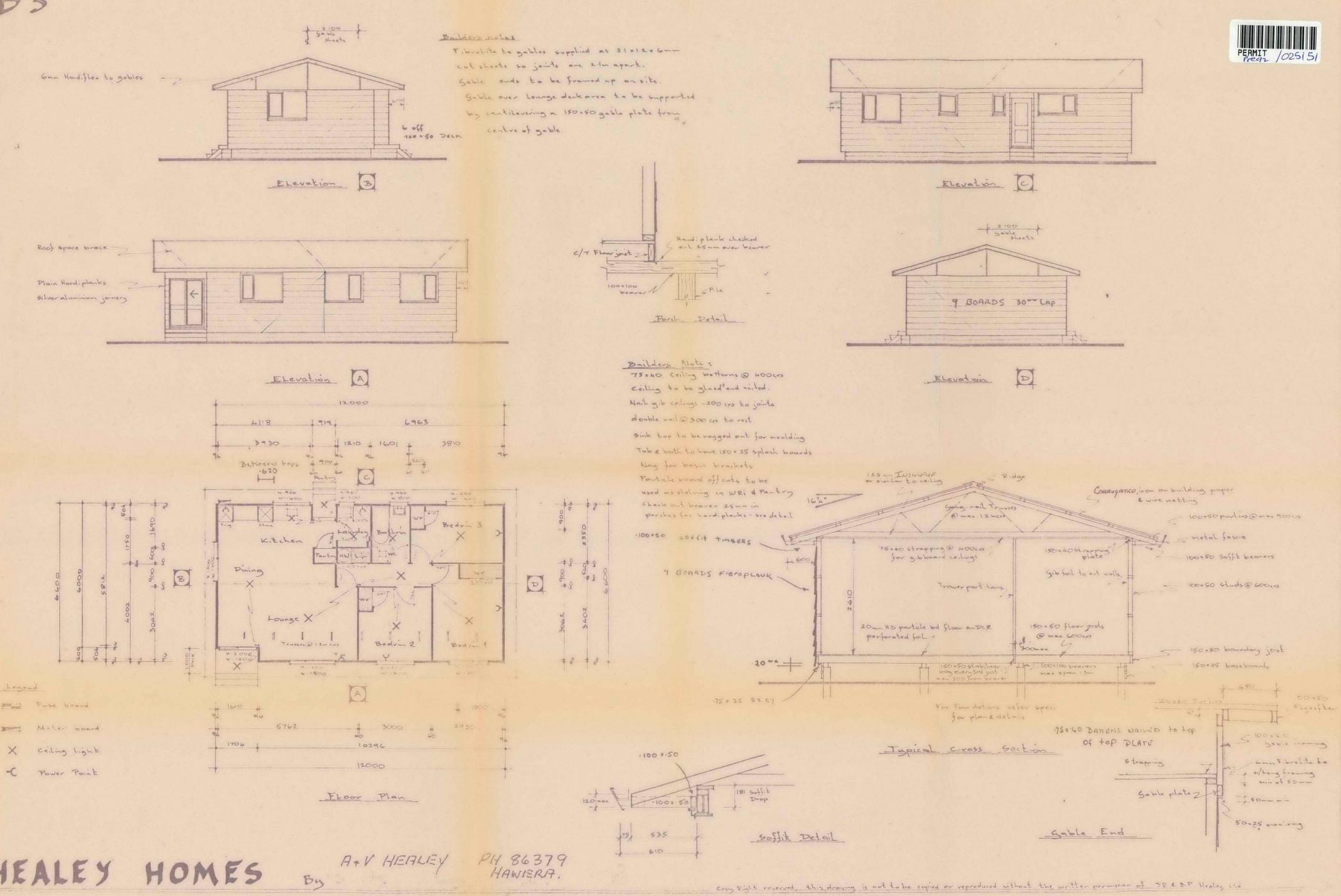
NOTE: This certificate does not cover the overall design of any building in which these trusses may be used.

For and on behalf of:

D.U. Coderosa

D. V. Anderson, B.E. 22.11.75

POWELL FENWICK & JOHNSON, Consulting Engineers.



Proposed New Home for

At Lot D.P.S. Floor Avea: 77.6 -2 (835 521)

Drawn: R.S Browholme NZCD(Arch) Ph 66963 Healton

scales 8 . 1:100 , 1:50 , 1:20