

seat, using metal clip tool. Warm clips before use e.g. (place in pocket) (12)

STEP 5 Unfold remaining cover and tension length ways to smooth out majority of wrinkles.
DO NOT OVER TENSION
To assist in positioning of plastic use off cuts of lockstrip

STEP 6 Pull down plastic on each Truss along length of house and fix. Push any wrinkles from inside out, through ends. Fix with lockstrip as in step 4.

STEP 7 Position air-pipe flange on inside skin, cut out hold and plug in air-pipe. Inflat to 6m - 8m water gauge pressure. Transfer air to side walls using short lengths of air pipe. All main air pipe must be tied to a framing member to avoid dropping loose in high winds.

NBS To remove lockstrip clips reverse clip tool and lever out clip.

FITTING LOCKSTRIP BATTEN

50 x 25 Nail through Lockstrip groove with 50mm Galv. Flatheads at 150 centres

100 x 25 Nail between grooves with 60mm Galv. Flatheads at 150 centres.

NBS When painting batten use an Acrylic Latex Timber White ensuring no build up of paint is in lockstrip grooves.

AIR PRESSURE:

An air pressure gauge is supplied with each air pump (Manometer). Hang in a suitable place, e.g. door stud, post at eye level. Apply air pipe flange and puncture lower polythene sheet above gauge. Force plastic tube through puncture.

Fill gauge at open end with clean water until level is about half way up gauge. Tape tube to a framing member.

Air pressure will force levels in both tubes apart. To be registered in millimetres on the scale.

Correct pressure is shown when water levels are 6m x 10m apart.

When fan box is closed this will maintain pressures about 6mm. Opening the box will make pressure rise.

If pressures are still too high fit an exhaust pipe on a lower section of a side wall and then re-adjust pump door.

NOTE: DO NOT COLOUR WATER

Use high pressures 6mm to 10mm in extreme high wind conditions only. (open pump door).

Use 65mm Nexi Coil for Air Transfer

OUTSIDE TOP RAIL (100mm x 100mm)

EDGE PLASTIC

IBUS

TOP RAIL

POST

REDPATH

FLASHING OF PLASTIC

TYPE 2000 C1

Engineer's Calculations:

A full engineer's report with all relevant calculations is available on request.

This report concludes, in part ".....the greenhouses should behave satisfactorily up to a maximum wind gust of 35m/sec.

This wind gust represents the maximum wind gust speed which could be expected to be equalled or exceeded once every 25 years."

As this represents about a 80mph gust it is recommended that the house be placed in a well sheltered position.

Consulting Service: If any advice is required to assist construction or clarify details, purchaser is welcome to call Edwards and Williams Ltd, on (069) 53-885 or after hours (169) 118096 Levin, Chris Edwards (069) 53-894 Levin Dave Williams

NOTE: Our designs, products and service are aimed at best possible results for the purchasers of our Greenhouse Kitsets, but owing to the fact that the standard of finished construction is outside our control, we cannot accept responsibility for failure or defects in the structure due to such construction.

No warranty is given as to the life of the covers other than that given by the manufacturers of the sheet. When the manufacturer supplies a warranty it is usually on a pro-rata basis according to age of sheet and does not include any fitting costs. Agood and 200/30 month warranty and Duraflex 3/30 month warranty.

Building Service:

If a completed unit is required, we will obtain local building quotes and supervise construction.

It is the responsibility of the customer to arrange a building permit unless otherwise stipulated in the quotation.

Box 22
LEVIN
Phone 83-865

POST SPECIFICATION

MAIN POST

Ev Auckland (supplied).

PLEASE ORDER: 20 of 150mm S.E.D. tanalised 93 posts 3.6 metres in length
Being straight and true to larger than 175mm at their widest point where possible.

PILES FOR END FRAMING AND SIDE BASK RAILS

(New Steel Pegs supplied).

In each 7m section 150mm round piles are dug in below end plates both sides of the doors and between foundation Posts to support base rails.

PLEASE ORDER: 150mm S.E.D. tanalised $\frac{1}{2}$ round posts 600mm in length

2,000 CI POST SET-OUT

NE: Greenhouse requires a fall
for water run off.
(see site plan)

Post Spacing

Widthways - 7 metres
lengthways - 3 metres

Porton End Pile site to be 3m from over cut.

1. Set out foundation posts with the use of profiles on all four corners and perimeter ends for interior rows of posts on rusty bay houses.
2. Position & smaller selected corner posts to level and brace secure.
3. Run string lines top and bottom on outside face of corner posts and perimeter end posts. *(Meth. Bay)*
4. Mark remaining post centres (3 metre centres) with a large cross using a can of spray paint.
5. Drill all holes using a 300mm auger on the back of a tractor.
6. Stand all posts to string lines and with the use of a measuring tape re-check each post centre at base before levelling up with a hand level and bracing back to a peg. *Base and Top Rails may be used to position Piles at Base Centre.*
7. Concrete all posts half full only and allow to set. Trim tops of posts to height of string line with a chain saw.

8. Position all top rails lengthways down top of outside post (4 x 4) and interior Posts (4 x 2) and nail using 75m nails. Posts may be pushed into position so rail bears centrally on two of post centres.
9. Remove all interior post bracing and leave one exterior line of posts braced. Erect trusses and bolt to top rails pushing interior posts (July 87) into alignment if necessary. Fix ridges to trusses as each is erected.
10. Fully concrete all posts once trusses have been erected and fully bolted.

IMPORTANT

1. Half fill post holes initially before erecting trusses.
2. The interior top rails do not require to be positioned to a string line but more importantly bear fully on centre post. The rail line will straighten as trusses are erected and posts pushed to alignment.
3. Greenhouse requires a fall from roof. All posts must slope. (See site plan)

VENTILATION ASSEMBLY INSTRUCTIONS

Tools Required

Hammer

Two Ladders

Drillbits

Two Planks 3.5m length.

Pliers

Allen Keys

(supplied). —→ Socket Drill attachment

(supplied) ----- Posi Drive Drill attachment

Pipe Wrench

Electric Drill

New Steel Type

FRAMING ASSEMBLY

- (a) Fix one steel hinge to each ridge
NB: Ensure hinge is positioned so as not to protrude above top of ridge.
- (b) Cut strap brace and nail midway ridge checkouts using 30mm nails
- | | |
|--------------------|----------------------------|
| strap brace length | { Single Ridge Vent 1.300 |
| | { Double Ridge Vent 2.465m |
- (c) Fix pipe bearings using 12 x 25 tek screws to rafters (see measurement on plan)
NB: Bearings are positioned on same side of rafter as vent str and down rafter from vent hinge. Ensure bearing is pushed hard up to underside of rafter.
- (d) Fix rack foot 30mm in from one end of eash rail using 12 x 40 tek screws.
NB: Brass foot is positioned as close to Tee bracket joint without rack interfering with side of rafter.
- (Note: See Plan for assembly of new steel type ventilator.)*
- (e) Lay all vent eash rails up side down on ground continuous along length of Greenhouse. Using galvanised Tee brackets supplied screw all eash rails together in 6.000 metre sections by driving 12 x 40 Tek screws with an electric drill on low speed with Black Socket supplied.
- NB: Steel Tee brackets are bolted on underside of eash rails,

Ensure to push Tee bracket hard into back of sash rail

- (f) Lay vent arms in position and screw squarely into Tee bracket.
- (g) Nail angle braces at 45° to underside of vent arm and sash rails using 30mm nails. Turn each 6.000 metre section over and nail plate across joint. (over)
- NB: Round brace to top so as not to cut plastic (see measurement on plan).

VENT FRAMING TO STRUCTURE

Note: New one piece upstand Brackets have been supplied

- (a) Drill one hole through lockstrip groove each end of upstand to suit a 100mm locating nail. Position upstands on top of rafters so as to be 1.055 metres from top end of rafter to back of vent upstand. Nail two pullin hangers from back of upstand to rafter and join together on front using a multigrip bent down and nailed to side of rafter using 30mm nails.
NB: Check and ensure a 35mm clearance gap is formed between sash rail and upstand (see separate detail)
- (b) Lift each 6 metre sash rail assembly on top of Greenhouse and screw vent arms to hinges. Screw tee brackets and nail plate across top of joint.
NB: Tape hinges with foil tape supplied.
- (c) Nail vent strap brace to underside of upstand *Two 12x15 steel Tek* using four 30mm nails and to front edge of upstand using two 45mm spiral nails.
NB: Fold excess strap brace over so as to avoid any sharp edges interfering with plastic.

(d) Single Ridge Vents:

Nail 100 x 25

60mm nails at .200 centres

batten down ridge using

Using a hand saw cut into lockstrip batten down each side of vent hinge and check out a section to expose hinge knuckle.

Cover half vent strap brace using foil tape and fit vent plastic. Peel off backing paper on white 50 x 25 battens and screw down ridge over top of plastic using ~~200mm~~ 200mm centres maximum.

Note: Do not exceed 200mm spacing with screws.

IMPORTANT (1) Under NO CIRCUMSTANCE is batten over plastic to be applied in damp conditions.

(2) DO NOT nail within 100mm of any truss or vent strap brace

(3) Winch or Pulley must be fitted and operational before any fitting of plastic. Skinning is uncertain when vent is hard closed and locked.

"WARNING"

In the advent of vent hardware being supplied separately from kit, all cash vent arms must be tied to a framing member with a double thickness rope.

RACK AND PINION ASSEMBLY

④

- (a) Rack and Pinions are not individually matched so must be paired on ground and thoroughly greased to ensure frictional operation.
- (b) Slide each length of galvanised pipe through bearings and thread pinions on (1 pinion per Bay). Tighten pipe sockets with a wrench and pin using $\frac{1}{4}$ " high tensile roll-pins.
Fit pipe collars at each end of house to stop lengthways pipe movement.
NB: Cut pipe and position winch in any desired position along Greenhouse. Pin pipe to winch using high tensile bolts and locknuts supplied. Fit and pin 8" pocket wheel to winch shaft.
(Winch is positioned in Centre of Greenhouse.)
- (c) Fit rack cage over pinions and slide on rack. Pin bottom of three racks per run of vent using a 20mm M8 bolt to act as a stop.
NB: (1) Securely wind grub screws so as to cut into pipe using an extended allen key.
(2) Rack foot split pin must be spread to avoid slipping loose.
Fit Rack To Vent Arm using one 10mm high Tensile Bolt, 3 washers & Locknut.

"W.A.R.N.I.N.G."

In the advent of vent hardware being supplied separately from kitset all eash vent arms must be tied to framing member with a double thickness rope.

60 DAY MAINTENANCE CHECK

- (1) Re-check vent pinion grub screws to ensure they are securely cut into pipe.
- (2) Grease racks.

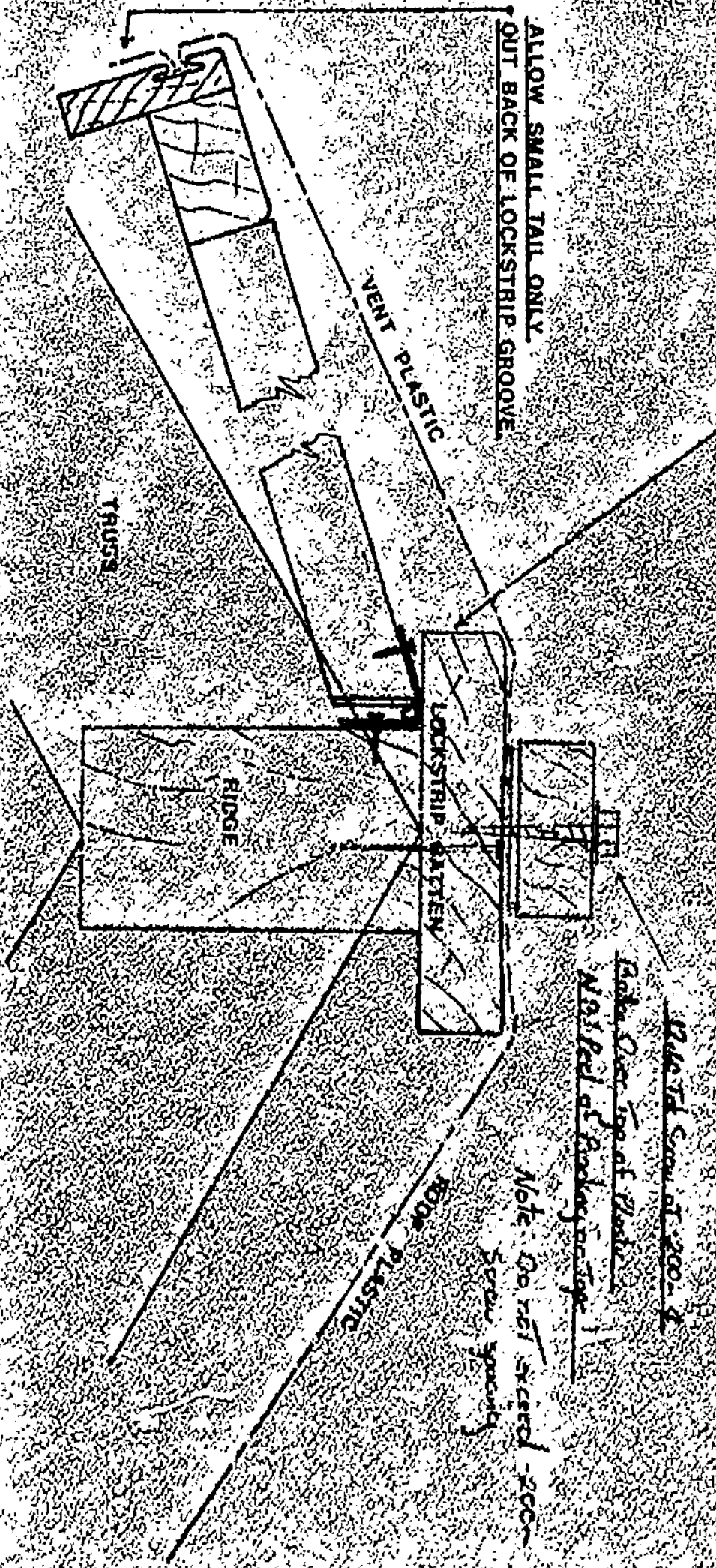
SINGLE RIDGE VENT ONLY

CHECK A SECTION OUT OF RATTEN TO

ALLOW CLEARANCE FOR HINGE

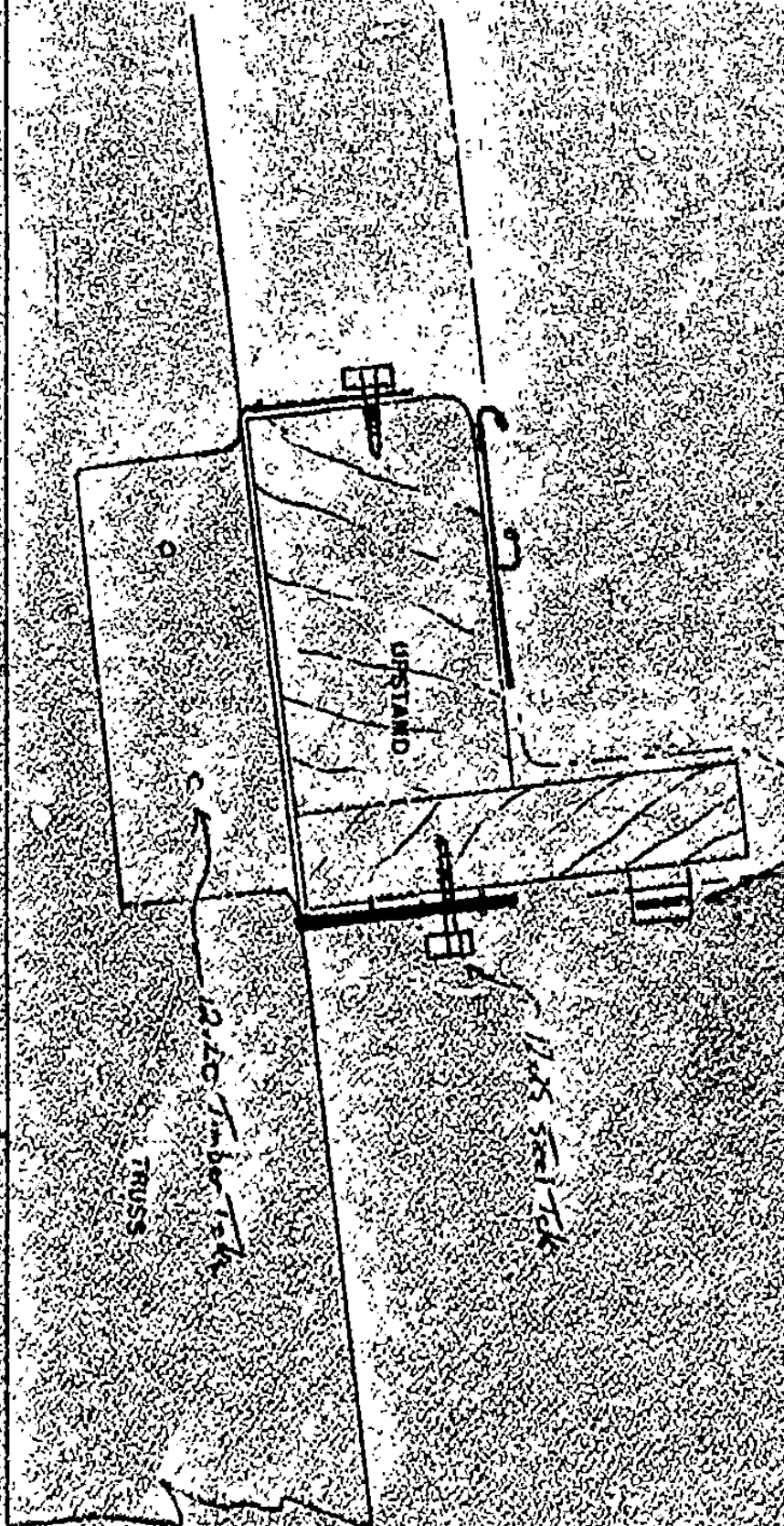
ALLOW SMALL TAIL ONLY

CUT BACK OF LOCKSTRIP GROOVE



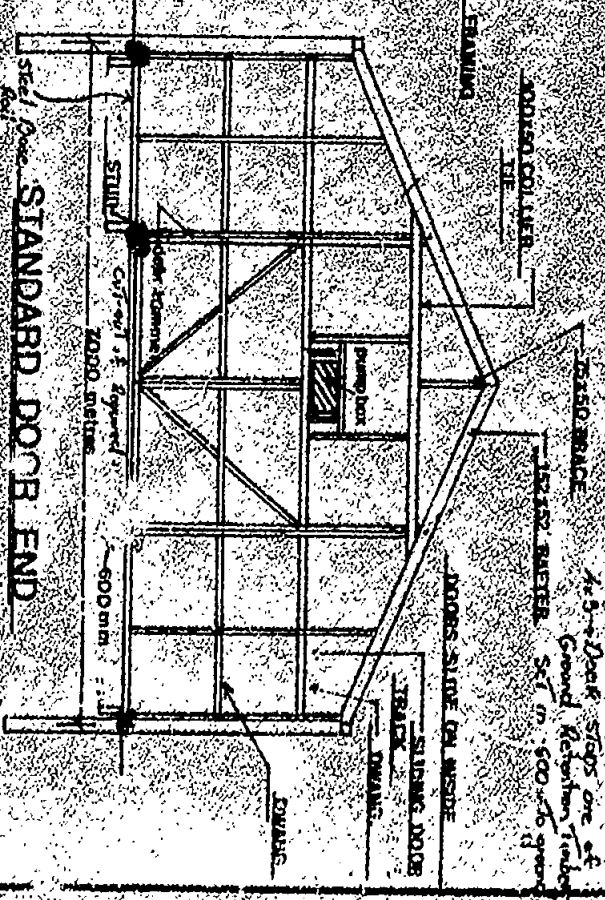
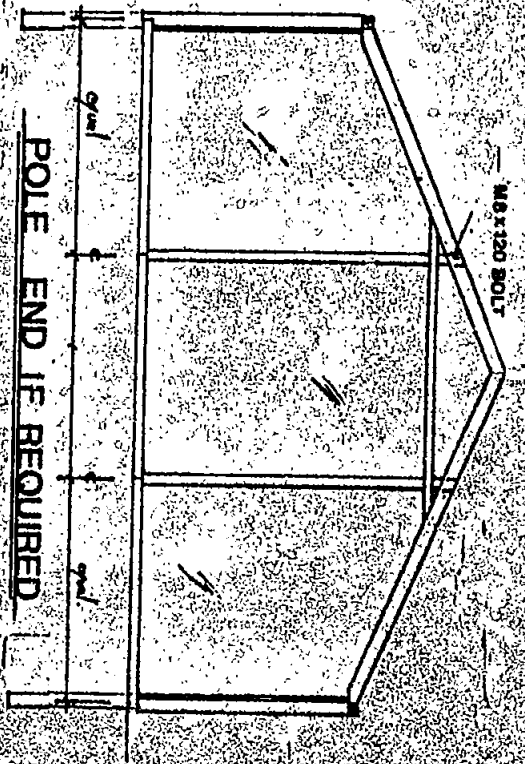
FLASHING OF VENT PLASTIC

FLASH PLASTIC BY STAPLING ACROSS
BLACK TIE DO NOT APPLY PRESSURE
TO BACK OF LOGSKIN

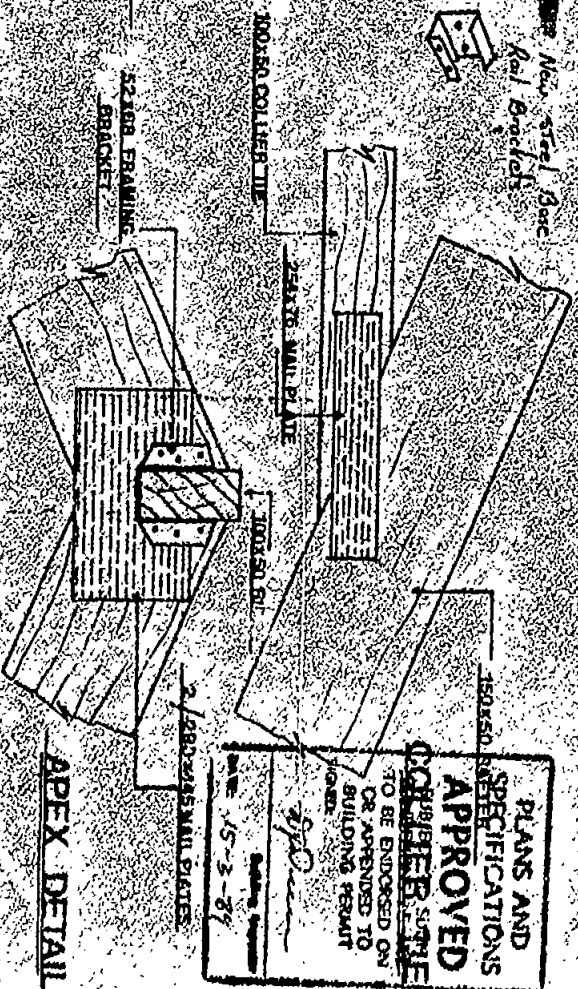
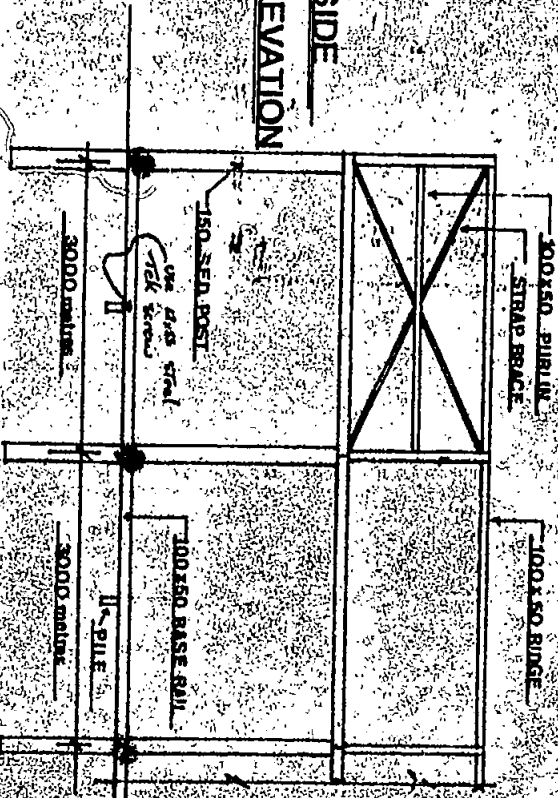


FITTING VENT UPSTAND

7000 CI



SIDE ELEVATION

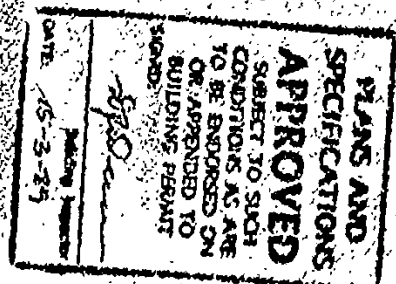


PLANS AND SPECIFICATIONS
APPROVED
 COLLECTOR THE
 TO BE ENDORSED ON OR APPENDED TO BUILDING PERMIT
 15-2-87
 Building Division

REDPATH GREENHOUSES

JOINT AND FRAMING DETAIL

TYPE 7000 C1	1/4" thick
15-2-87	1/4" thick
15-2-87	1/4" thick



USED, SEEN, POST

3000 metres

2.50 HT

ST. COLUMBANE



THE CELLAR

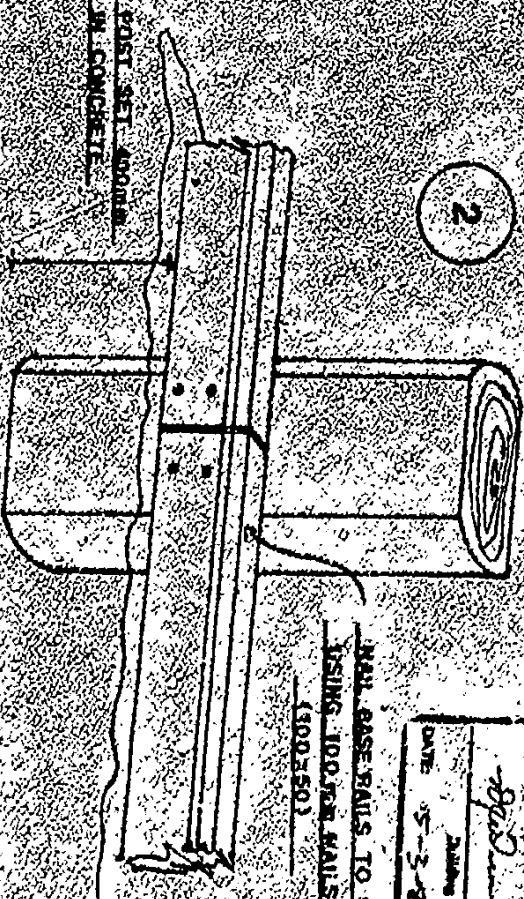
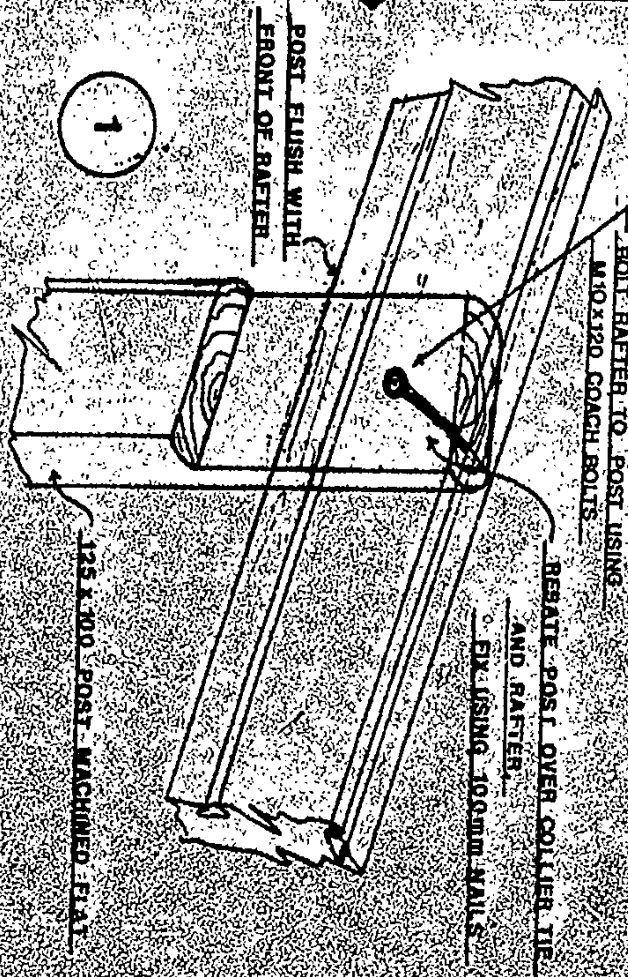
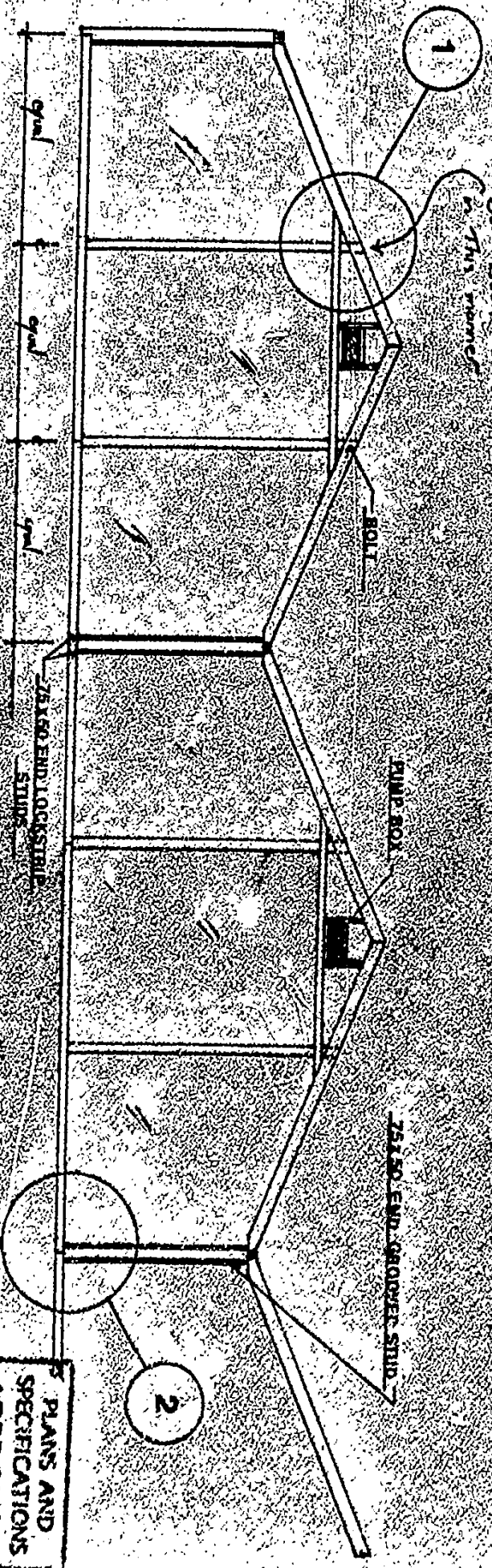
-CT 500 TIE (MIN 5 NAIL S PER 1 EG)
2 per joint

POST CONNECTION DETAIL

TYPE 7000 C1

247153f

GALT DOOR STUCCO
6-7 1/2" MINIMUM



PLANS AND SPECIFICATIONS
APPROVED
SUBJECT TO SUCH CONDITIONS AS ARE TO BE ENDORSED ON OR APPENDED TO BUILDING PERMIT SIGNED:
[Signature]
DATE: 5-3-89

NAIL BASE NAILS TO POST
USING 100MM NAILS
(100x250)

REDPATH

POLE END DETAIL

TYPE 7000 CI

10/82

BRACING EURLIN FLUSH
WITH BOTTOM OF RAFTER

NAIL STRAP BRACE USING
30,000 SPIRAL NAILS (6 IN)

TENSIONER

STAPLE THOUGH WASHED
TO CRIMP WIRE TO INNER
SIDE OF RAFTER

BRACING WIRE TENSIONED
AND STAPLED TO UNDERSIDE OF RAFTER

(Gable brace) on
flow with side of
Roof only

(2 in x 1 in)
FOLD STRAP BRACE UP
TOP GAIL AND RIDGE

NOTE: SECTIONS MUST BE REINFORCED TO RIDGE AND
UNDERBENT TO PRODUCE AND MAINTAIN

NAIL METAL WIRE BRACING
BARS TO OUTSIDE OF END RAFTERS

PLANS AND
SPECIFICATIONS
APPROVED
SUBJECT TO SUCH
CONDITIONS AS ARE
TO BE ENDORSED ON
OR APPENDED TO
BUILDING PERMIT
SIGN: *[Signature]*
Building Inspector
DATE: 5-3-79

BEDPATH GREENHOUSES

BRACING DETAIL

TYPE 7000 C1

7/17/71

DATE	7/17/71
DESIGNED BY	WKS
CHECKED BY	WKS
IN CHARGE	WKS

METRES

METRES

PROFILES

MAIIS

STRING LINES TOP AND BOTTOM

NOTE: MAXIMUM POST HEIGHT AT ANY GIVEN POINT ON SITE MUST BE NO GREATER THAN 2400 METRES

IMPORTANT: POSTS REQUIRE A FALL FOR WATER RUN OFF (SEE SITE PLAN)

Use steel Base Rails for Top Rails
To allow Holes at 3m intervals

NOTE:

SELECT 4 CORNER POSTS AS CLOSE TO 150MM AS POSSIBLE USE LARGER POSTS AT INNER POSTS

PLANS AND SPECIFICATIONS

SUBJECT TO SUCH CONDITIONS AS ARE TO BE ENDORSED, OR APPENDED TO BUILDING PERMIT

DATE 15-3-87

a. AUGER 300MM HOLE

b. LARGE END OF POST IS IN HOLE

c. POSTS JOINED BY 3500MM IN LENGTH

MAX 2400 HEIGHT MIN 1900

CONCRETE POST BY 300MM AROUND POST

MINIMUM POST DEPTH 1500mm

300MM

REDPATH GREENHOUSES

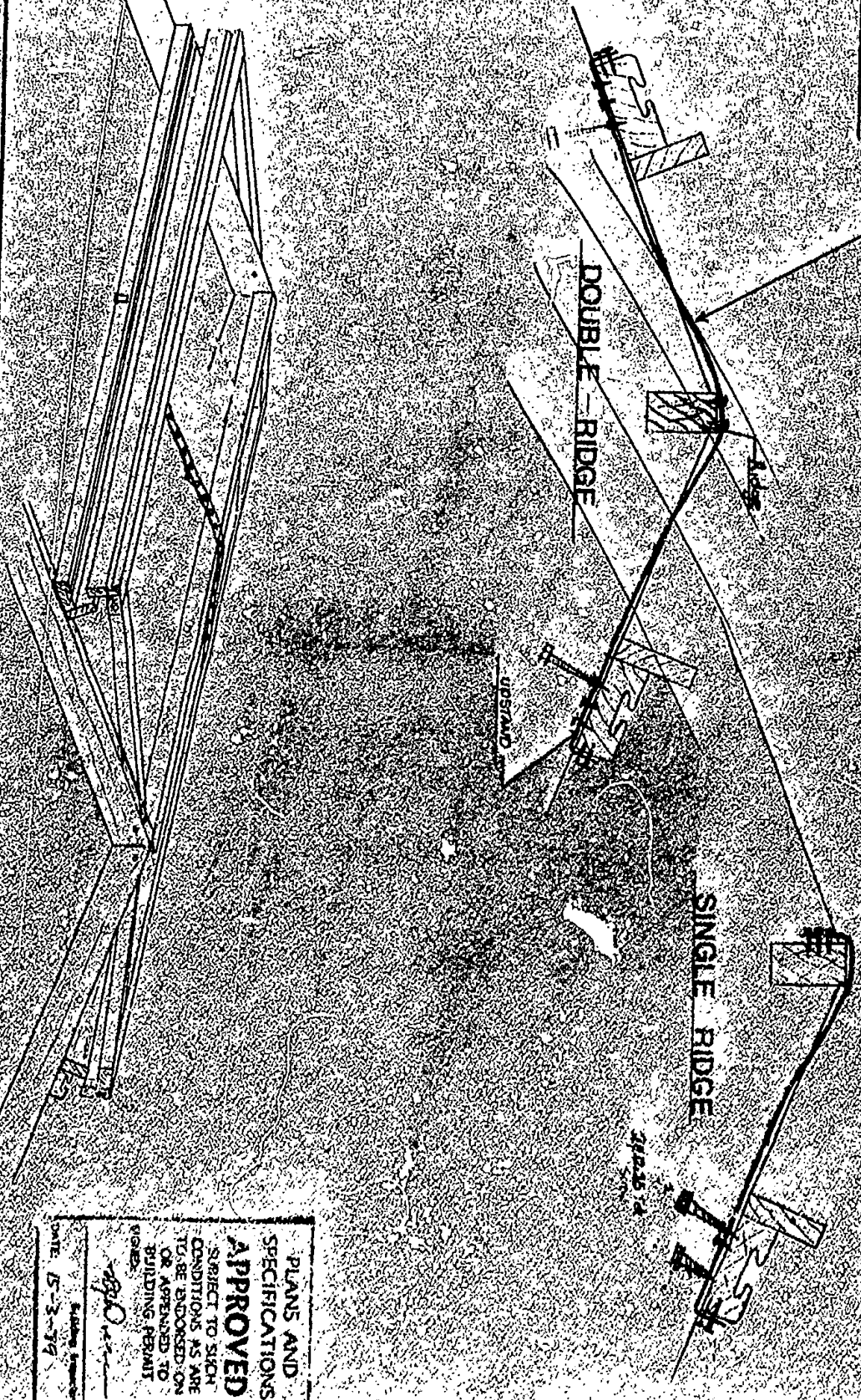
POST SETOUT

TYPE 7000 C1

DATE	15-3-87
BY	15-3-87
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	

Grass Vent upstand in the Center
of All Roofs
Use 30 mm Mesh

Fill upstand before
Putting Double Grass Locking
System



BEDPATH GREENHOUSES

VENTILATION

TYPE 7000 G1

DATE 15-3-79

PLANS AND SPECIFICATIONS
APPROVED
 SUBJECT TO SUCH CONDITIONS AS ARE TO BE ENDORSED ON OR APPENDED TO BUILDING PERMIT
 DATE 15-3-79

USE 10' LONG
OF UNUSUAL TYPE

Use Steel Type
ventilator

PLYWOOD FLASHING (fix to inside of end truss)

NOTE

35MM CLEARANCE

use large steel bracket to
tie upstand to truss

bolts fast to
steel rail using
M8 11x50mm bolts

FIX BRACE TO UNDER
SIDE OF END SASH AIR
(found up)

1000mm to 1500mm
from end to center

fix bracket to steel truss

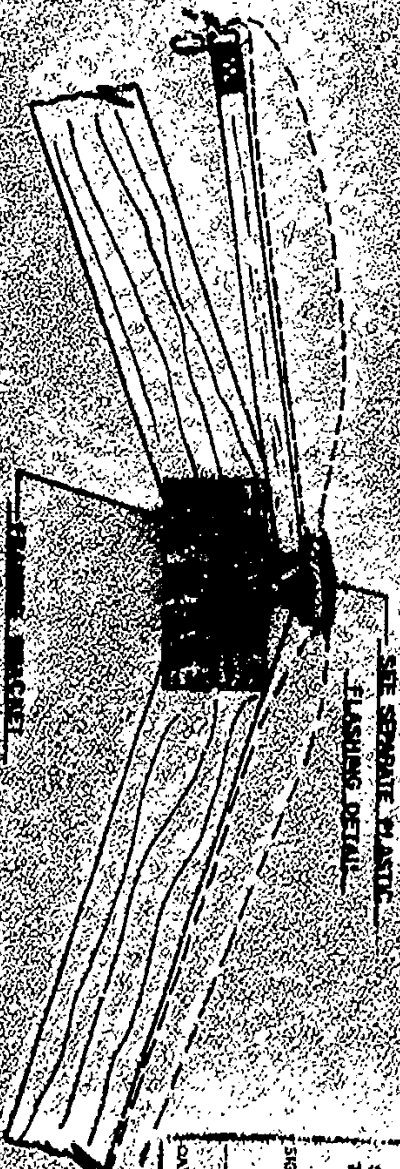
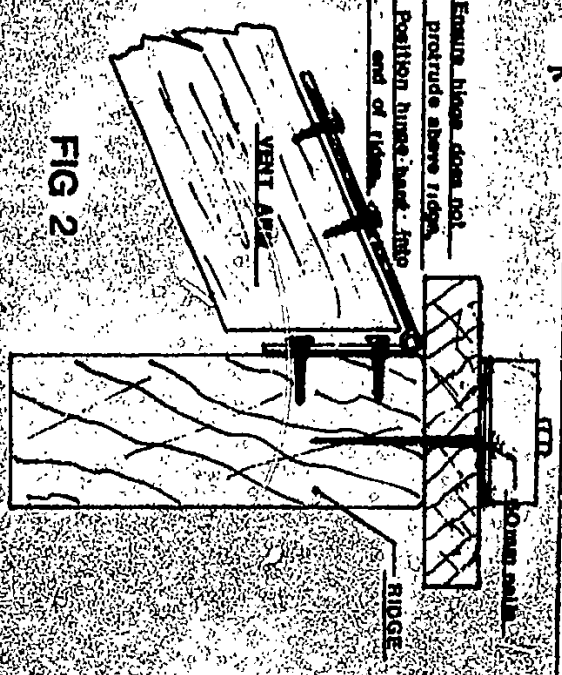
use large steel bracket to
tie upstand to truss

Two locations here and
there

6-950mm

use large steel bracket to
tie upstand to truss

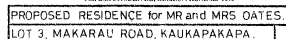
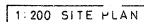
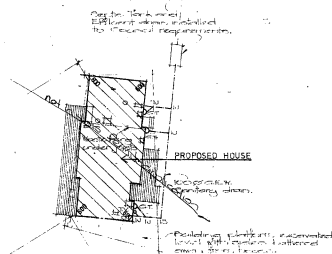
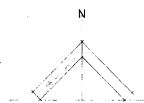
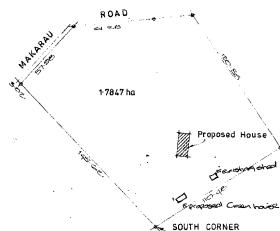
FIG 2



PLANS AND
SPECIFICATIONS
APPROVED

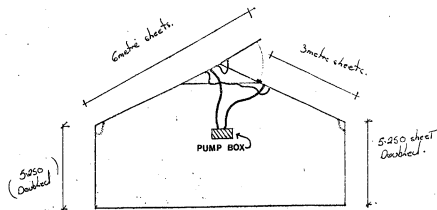
SUBJECT TO S.C.C.
CONDITIONS AS ARE
TO BE ENDORSED ON
OR APPENDED TO
BUILDING PERMIT
SIGNED

DATE 05-3-89
Building Inspector

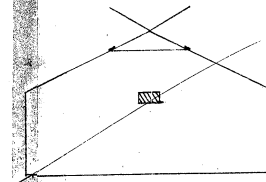


PLASTIC SET-OUT

(Oura-Therm Roof only)

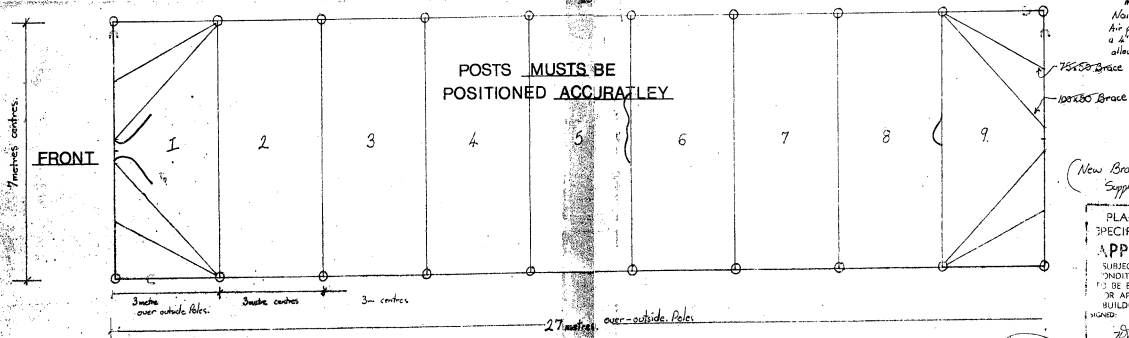


SINGLE RIDGE VENT



DOUBLE RIDGE VENTS

IMPORTANT: HOUSE REQUIRES A 150mm FALL TO RUN WATER OFF VENTS



**7 METRES WIDE X 27 METRES LONG
(2034 SQ FEET)**

PLASTIC CUTTING LIST

Roof Section Covers

Vent Plastic

Side Wall Sheet

End wall Doors

AIR TRANSFER PIPES

Main Air Pipes from Pump
(Pump of House)

Vent Pipes
(Back of House)

Small End side wall Pipes

Interconnecting Roof Sections

NOTE: All air pipes must be fixed to framing member.

Wall where possible use air pipes to a framing member using a drill connection support provided allow it to push.

(New Bracing Plan Supplied)

PLANS AND SPECIFICATIONS APPROVED

SUBJECT TO SUCH CONDITIONS AS ARE TO BE ENDORSED OR APPENDED TO BUILDING PERMIT

127
15-3-79

REDPATH GREENHOUSES

« SITE PLAN »

TYPE 7000 CI

Drawn: [initials] Checked: [initials] Scales: N/S
Traced: [initials] Date: 27-5-76

SHEET