

CERTIFIED STEEL PORTAL FRAME SHED DESIGN IN ACCORDANCE WITH NCC 2022 FOR SITE WIND SPEED "40.93m/s", WIND REGION "A0" TERRAIN CATEGORY "3" IMPORTANCE CATEGORY "1"

Internal Pressure: 0.5
Design Snow Load: 0.00 kPa, Roof Snow Load: 0.00 kPa

Customer: Barry Pearce

Site Address: 1338 Scenic road, Montegagle NSW 2594

Main Building: Span: 3.6, Length: 6.5, Height: 2.7, Roof Pitch: 11 degrees
The length being comprised of 2 bays, the largest bay is 3.25m bays.

Right LeanTo: NA

Total Kit Weight: 760.54kg

LEFT LEAN TO PORTALS		RIGHT LEAN TO PORTALS	
Internal Column:	NA	Internal Column:	NA
Internal Rafter:	NA	Internal Rafter:	NA
End Column:	NA	End Column:	NA
End Rafter:	NA	End Rafter:	NA
Knee Brace:	NA	Knee Brace:	NA
Knee Brace Length:	NA	Knee Brace Length:	NA

NOTE: All undrad intermediate columns are always back to back (refer to drawing: Floor Plan)

PURLINS AND GIRTS	
Erave Purfin: C-100/10	
Side Wall Girts: TH640/75	Max Spacing: 1250
Front End Wall Girts: TH640/75	Max Spacing: 1250
Back End Wall Girts: TH640/75	Max Spacing: 1250
Roof Purlins: TH640/75	Max Spacing: 1000
	Overlap: 10%
	Overlap: 10%
	Overlap: 10%
	Overlap: 10%

NOTE: Gird spacing will vary to a maximum 1.25m where windows are located

 best sheds <i>Value & Quality Direct to You</i> 151 Smeaton Grange Road, Smeaton Grange, NSW, 2567 Phone: 02 4648 7777 Fax: 02 4648 7700 Email: sales@bestsheds.com.au	Customer Name: Barry Pearce Site Address: 1338 Seaside road Monteagle, NSW, 2594
CIVIL & STRUCTURAL ENGINEERS COMMERCIAL - INDUSTRIAL - RESIDENTIAL - FORENSIC - STEEL DETAILING CAMILLO PINEDA MORENO limited liability company INCORPORATED IN THE REPUBLIC OF SPAIN Signature:  Date: 22.08.2024	DATE 22-08-2024 JOB NO. 4597780485 SHEET 1 of 6
EMERALD DESIGN & CONSTRUCTION	

DOMESTIC & LIGHT INDUSTRIAL STEEL PORTAL FRAME SHED STRUCTURES
This structure is designed in compliance with AS4600, AS3600 and AS1170 1 to 4 as Importance Level 2 with a Live Load of 0.25kPa as "Air Leaky Structures" providing stability when openings are prevalent.

The structures are clad with corrugated pre-painted finish, 0.42mm walls and 0.42mm roof (compliant with AS1562-1 Metal) over cold formed 450 to 550mPa galvanized steel C sections primary frames.

Primary framing is fastened together with 4.6 Class galvanized bolts adequately tensioned on ground prior to erection

Secondary framing steel bracing, with purlins and girts lapped, are all lark fastened to primary steel with a minimum of two (2) larks per connection as specified in details.

All rainwater products are compliant with AS2179.1 (Metal)

ENGINEERING

The undersigned engineer has checked that the design of the structure complies with relevant current Australian Standards as stated above and the following i.e. AS4671 - 2001 Steel Reinforcing materials, AS3600 - Concrete structures. However, he will not be present during construction, neither will he conduct inspections nor construction supervision.

The class 10a buildings are designed for erection on pad footings or slab based on soil of classification "A"-"P" with minimum bearing capacity 100kPa (i.e. organic soil is to be removed to a suitable material below natural surface).

Where (suitable) fill is required to level the site, it should be placed and compacted in layers of 150mm maximum

Concrete pad footings and slab supply and placement is to be in compliance with AS2870-2011 Residential Slabs & Footings, AS3600-2009 Concrete Structures for A2 and B2 exposure (i.e. 25mPa strength @ 28 days strength) with recommended slump 75 to 80mm for light pneumatic tyred traffic all trafficable floors.

25mm deep concrete saw cut, to be made into the surface of the concrete slab every 6m in width or length as crack control joints

For sites where these conditions are considered to be inadequate, a customized foundation design for the structure can be supplied to suit a specific purpose.

CONSTRUCTION

Erection of the structure is to be in compliance with local and state ordinances.

Occupational Health and Safety Regulations and with plans provided

GENERAL

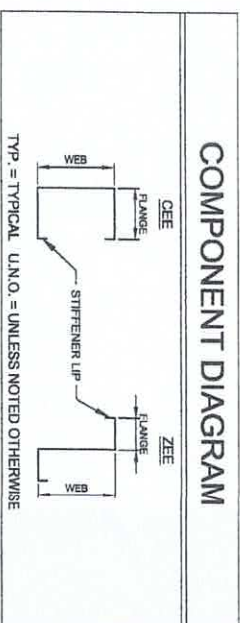
The designs as portrayed on the drawings remain the intellectual property of Best Sheds Ply Ltd and are provided for building approval and construction purposes only.

SNOW LOAD

Following conditions only apply to buildings with snow loading.

No maintenance or roof traffic permitted on the roof while there is snow present.

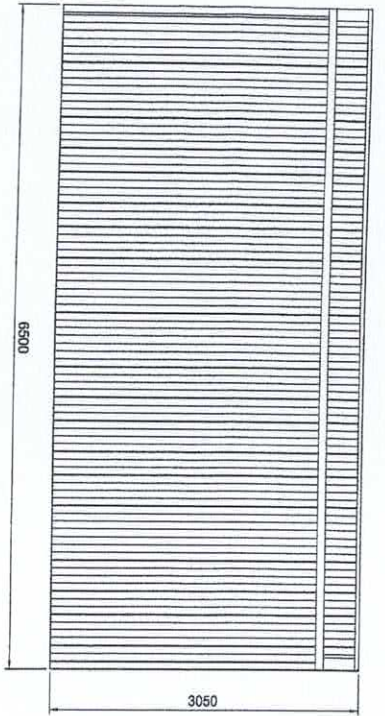
No other structure to be erected within 500mm of the gutters of this building



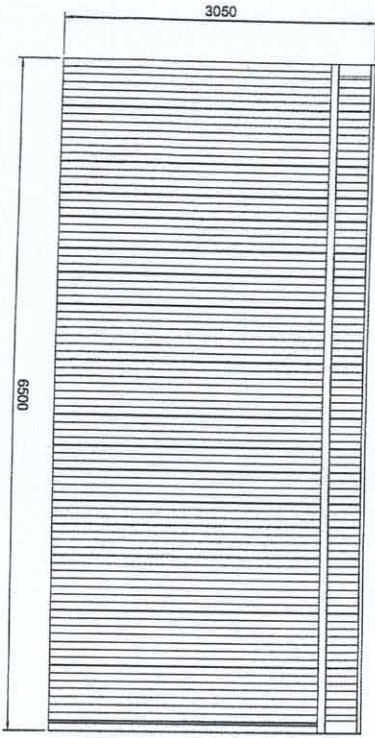
TYP. = TYPICAL U.N.O. = UNLESS NOTED OTHERWISE

DATE 22-08-2024

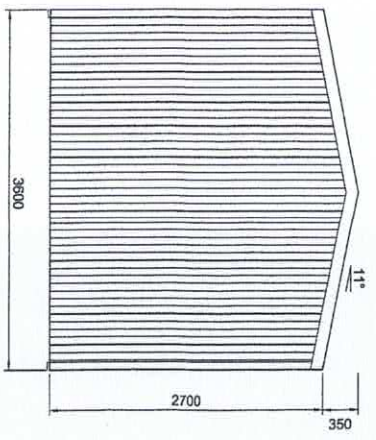
JOB NO. 4597780485
SHEET 1 of 6



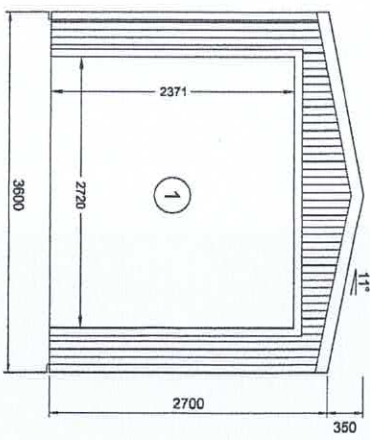
2 LEFT ELEVATION
SCALE: 1:50



1 RIGHT ELEVATION
SCALE: 1:50



3 REAR ELEVATION
SCALE: 1:50



4 FRONT ELEVATION
SCALE: 1:50

best sheds
151 Smeaton Grange Road,
Smeaton Grange, NSW, 2567
Phone: 02 4648 7777
Fax: 02 4648 7700
Email: sales@bestsheds.com.au



CIVIL & STRUCTURAL ENGINEERS
COMMERCIAL - INDUSTRIAL - RESIDENTIAL - FORENSIC - STEEL DETAILING
CAMILO PINEDA MORENO
PROF. 15022 TAFE NSW
Signature:

Date: 22.08.2024

Customer Name: Barry Pearce
Site Address: 1338 Scarle road
Monteagle,
NSW, 2564

DATE: 22.08.2024
JOB NO: 4597780485
SHEET: 2 of 6

FRAME #1

FRAME #3

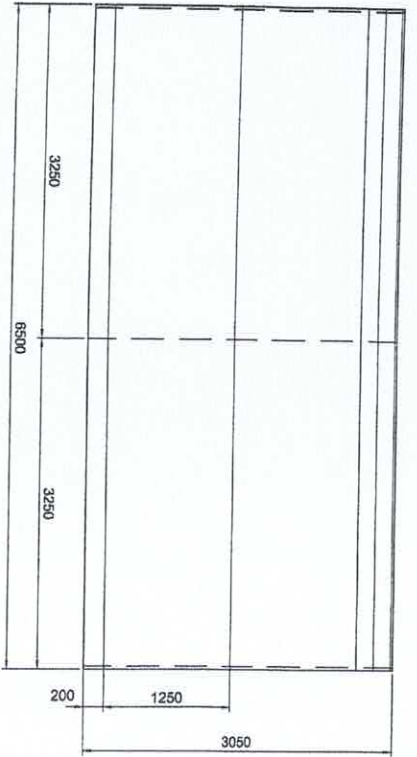
SITE
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DATE: 9/12/2024

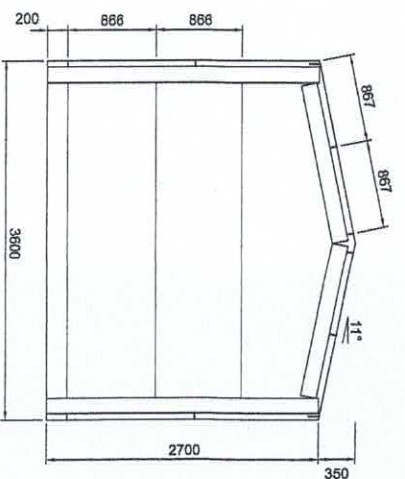
DRAWN BY:
Mark

0429824613



2 LEFT ELEVATION

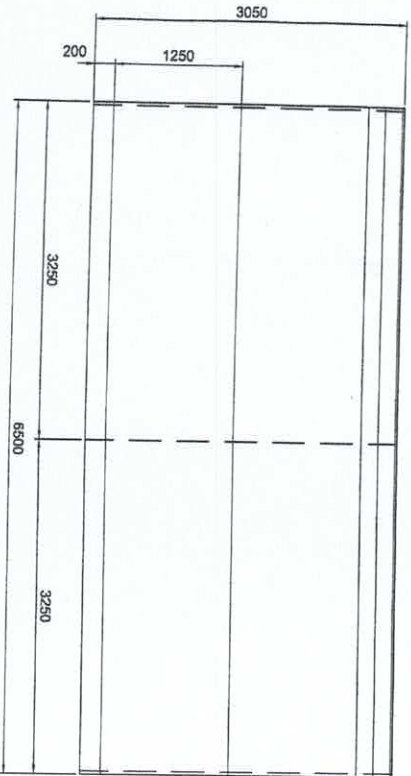
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3 REAR ELEVATION

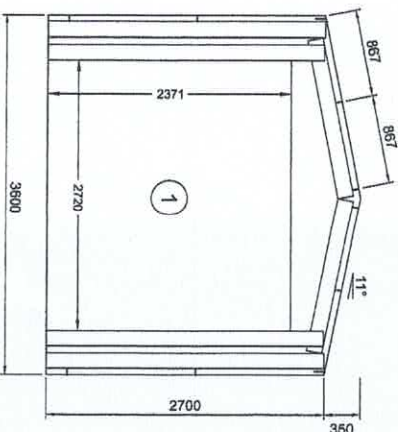
SCALE: 1:50

FRAME #3



1 RIGHT ELEVATION

SCALE: 1:50



4 FRONT ELEVATION

SCALE: 1:50

FRAME #1



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CIVIL & STRUCTURAL ENGINEERS
COMMERCIAL - INDUSTRIAL - RESIDENTIAL - FORENSIC - STEEL DETAILING
CAMILLO PINEDA MORENO
Structural Engineer
Professional Engineer (NSW)

Signature:

Date: 22.08.2024

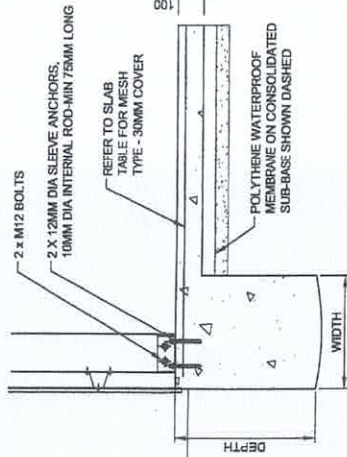
Customer Name: Barry Pearce
Site Address: 1338 Seaside road
Monteagle,
NSW, 2594

DATE: 22-08-2024
JOB NO. 4597780465
SHEET 3 of 6

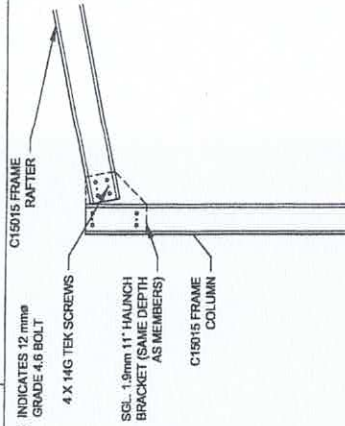
SLAB FOUNDATIONS DOMESTIC / LIGHT INDUSTRIAL (100mm MINIMUM CONCRETE SLAB INCLUDED)					
SOIL CLASSIFICATION (COMPACTED)	REINFORCING IN SLAB	EDGE BEAM	PIER	EDGE BEAM	EDGE BEAM
	MESH	TRENCH	Ø x DEPTH	DEPTH	WIDTH
A, S, & M	SL72	—	450 x 400	—	—
M - D	SL82	L11TM3	—	300	300
H TO H - D	SL82	L11TM3	—	400	300
E TO E - D	SL82	L11TM4	—	400	400
PRIOR EDGE BEAM OR STANDARD BEAM WITH PIERS UNDER COLUMNS 300 INTO FIRM GROUND	SL82	L11TM4	450Ø	400	400

THICKNESS: 100MM WITH MINIMUM 30MM COVER. REFER TO SLAB FOUNDATION TABLE FOR REINFORCING SPECIFICATION

STRENGTH: 25MPa



SLAB DETAIL



HAUNCH CONNECTION

B

APEX CONNECTION

D

ENDWALL MULLION ROTATED

E

PURLIN CONNECTION

Y

F

GIRT CONNECTION

G

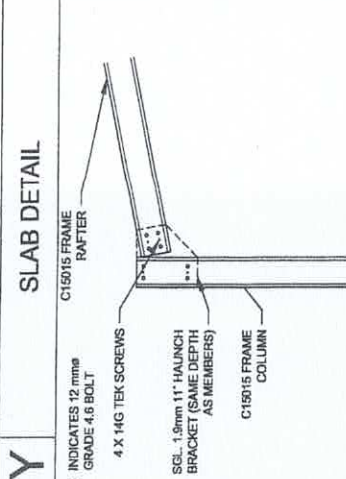
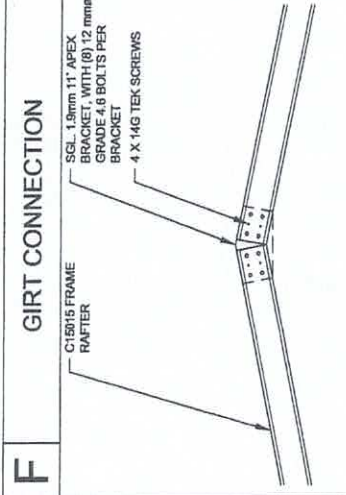
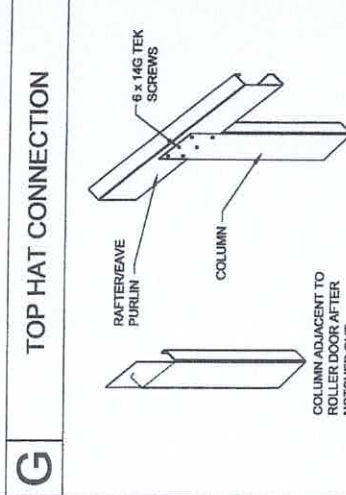
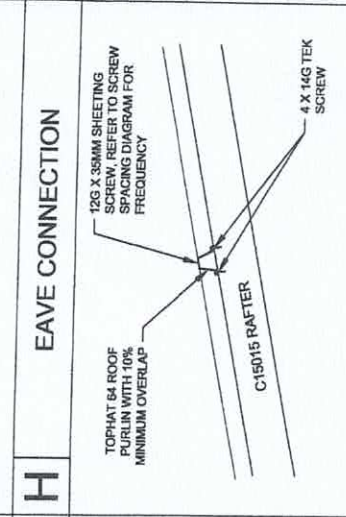
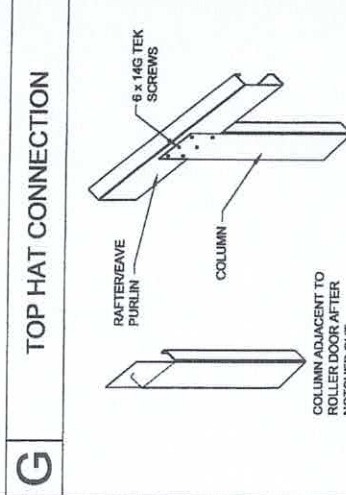
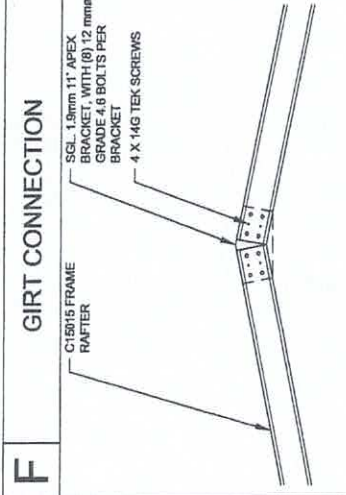
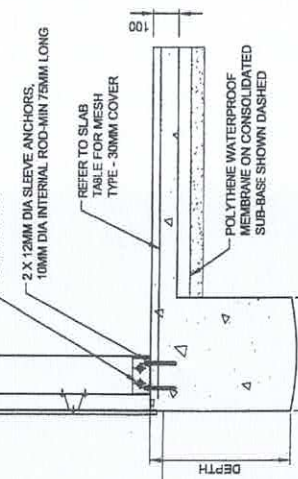
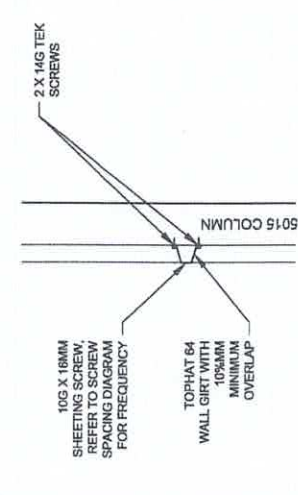
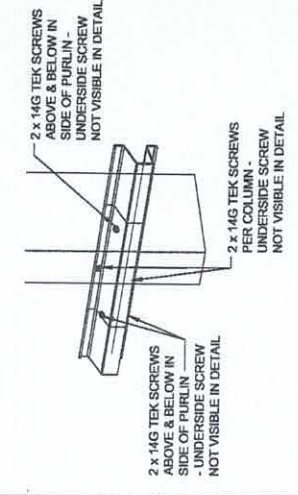
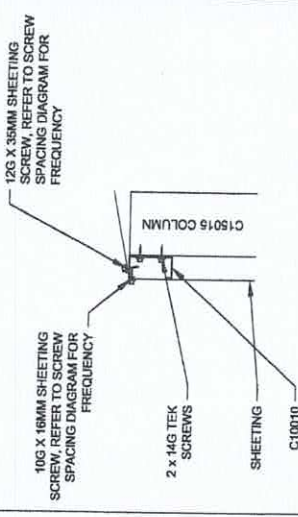
TOP HAT CONNECTION

H

EAVE CONNECTION

J

WALL SHEETING



Y

SLAB DETAIL



GIRT CONNECTION

G

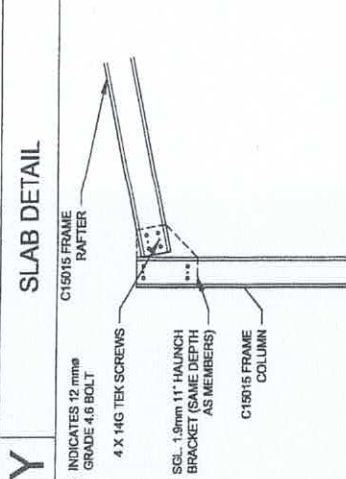
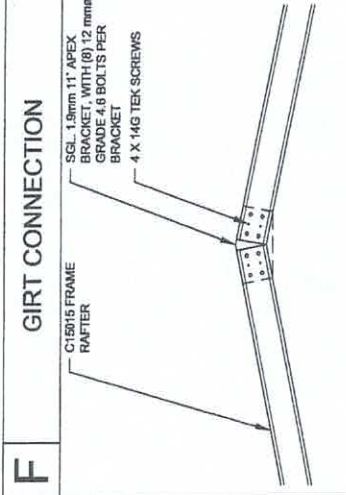
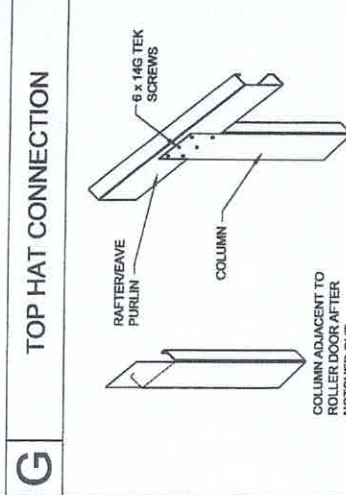
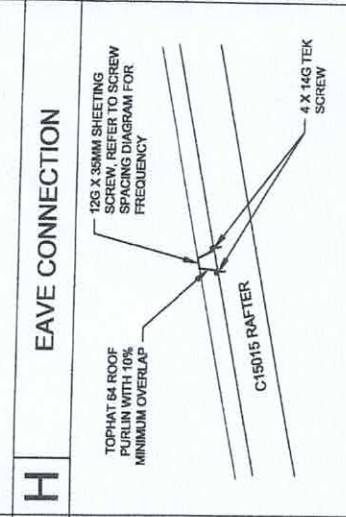
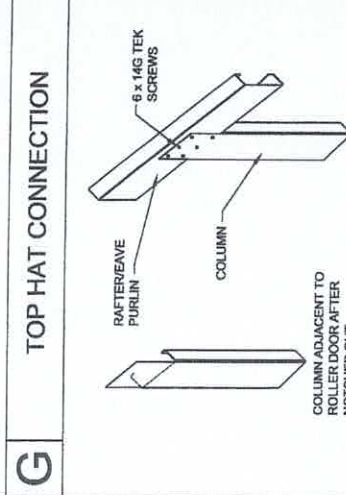
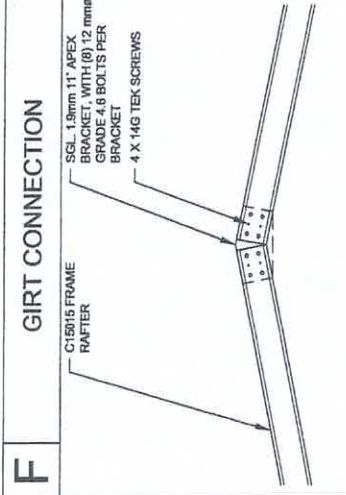
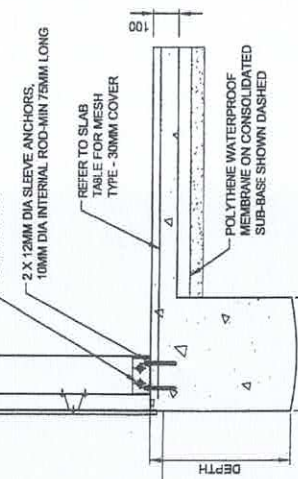
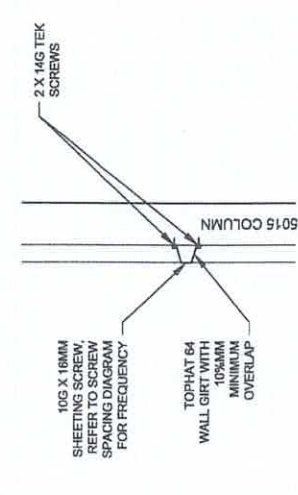
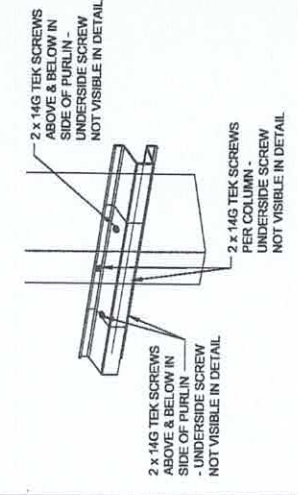
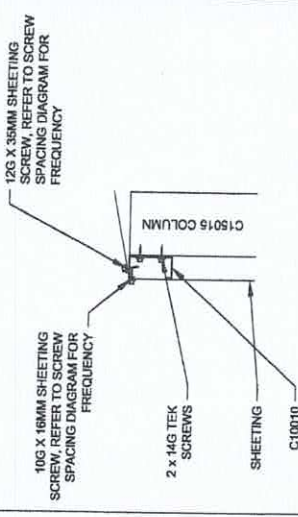
TOP HAT CONNECTION

H

EAVE CONNECTION

J

WALL SHEETING



Y

SLAB DETAIL



GIRT CONNECTION

G

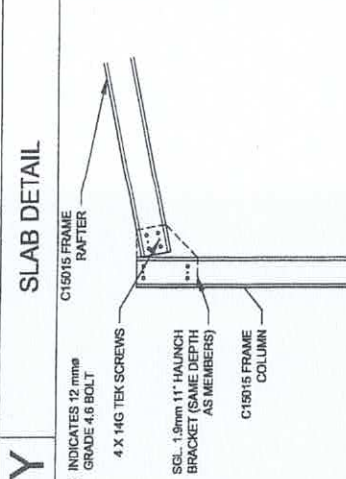
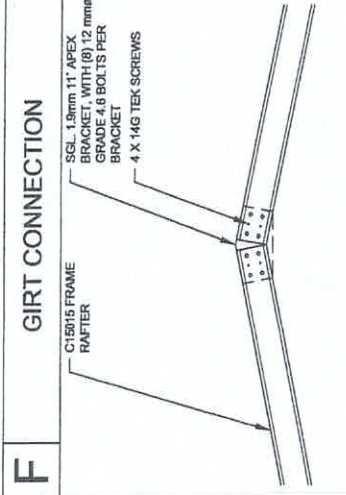
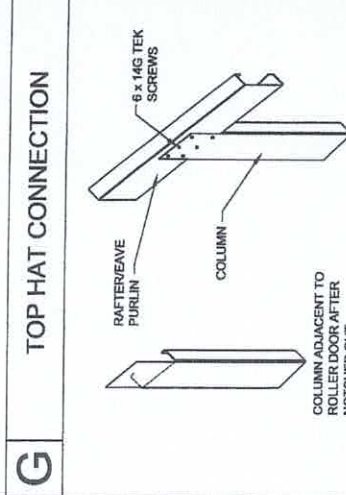
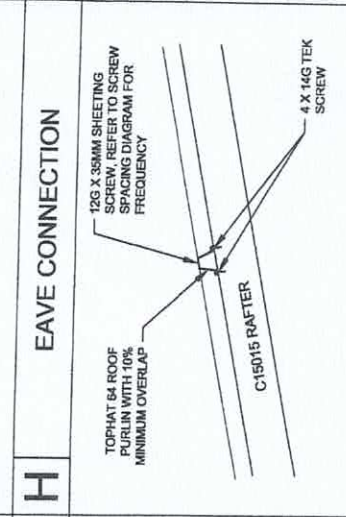
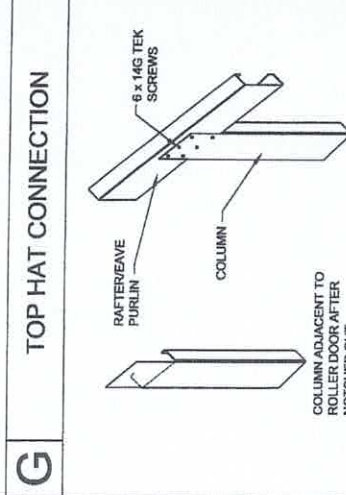
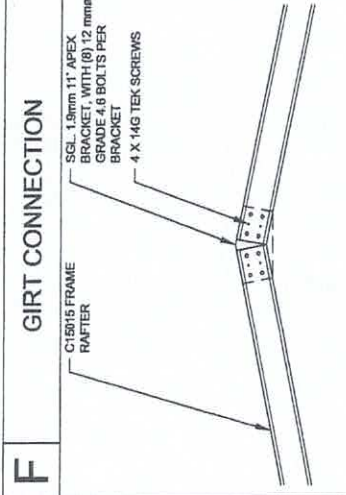
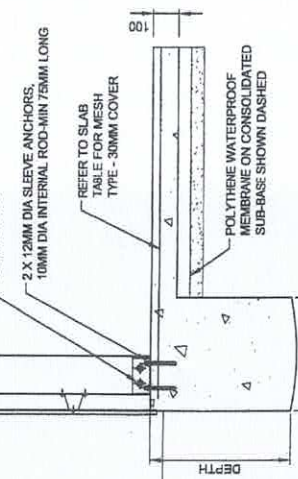
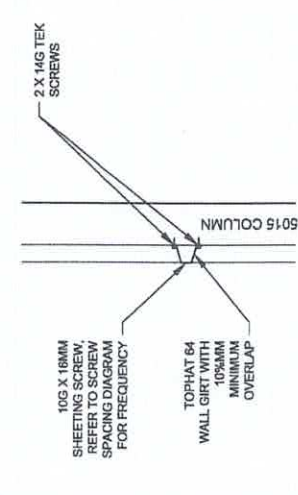
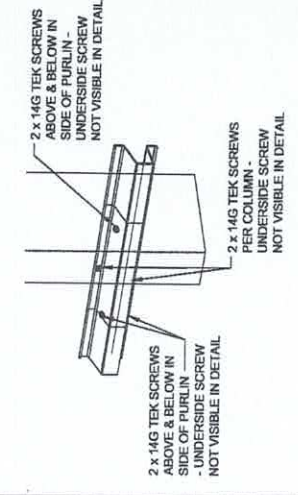
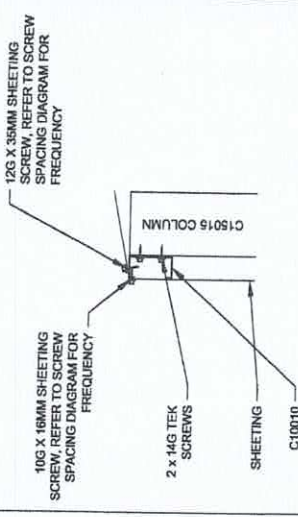
TOP HAT CONNECTION

H

EAVE CONNECTION

J

WALL SHEETING



Y

SLAB DETAIL



GIRT CONNECTION

G

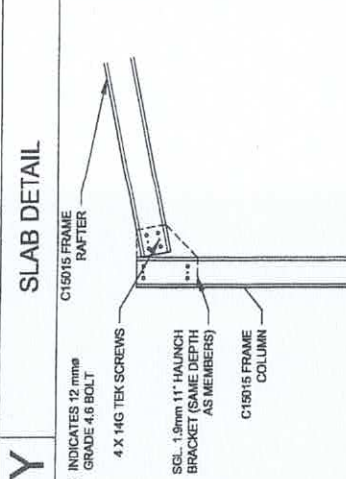
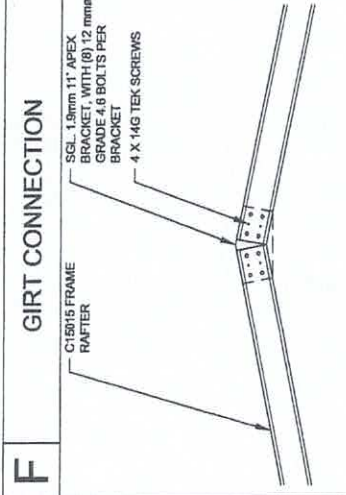
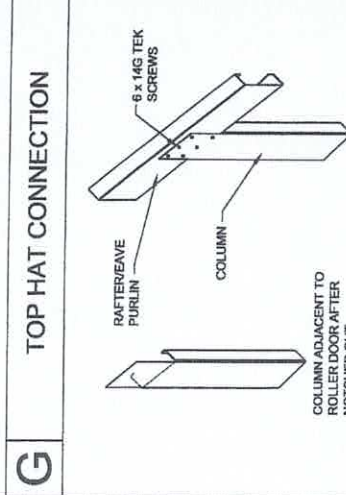
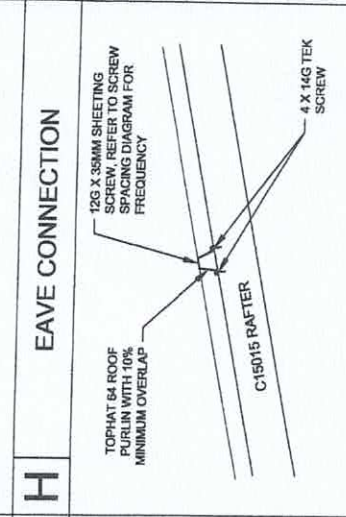
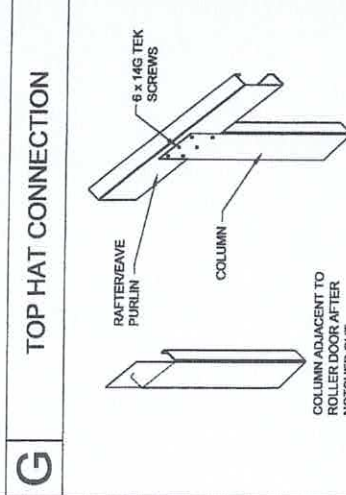
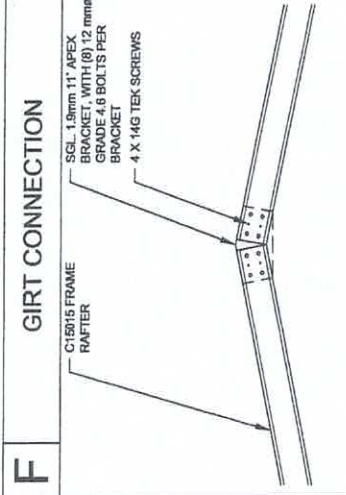
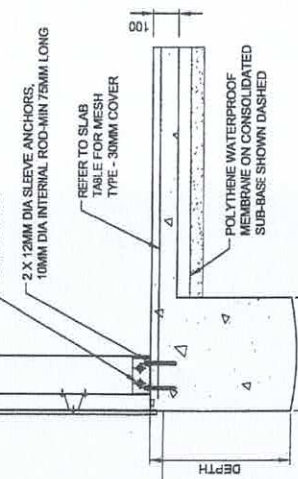
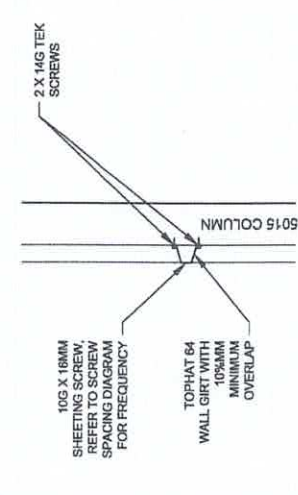
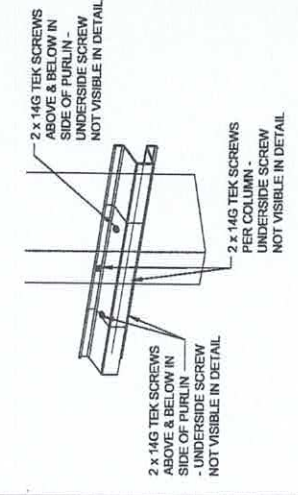
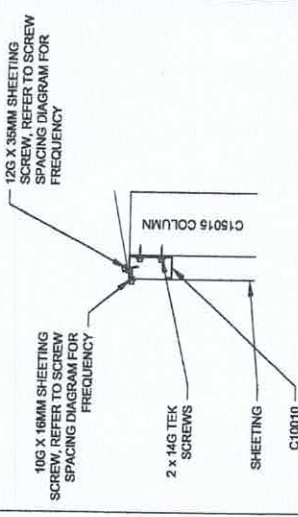
TOP HAT CONNECTION

H

EAVE CONNECTION

J

WALL SHEETING



Y

SLAB DETAIL



GIRT CONNECTION

G

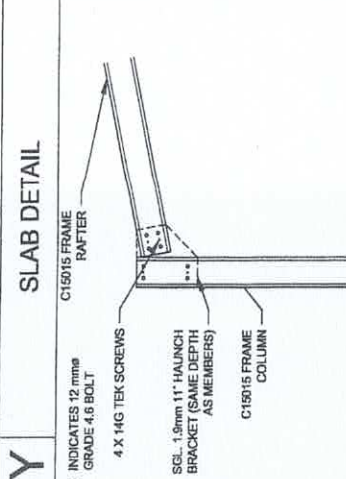
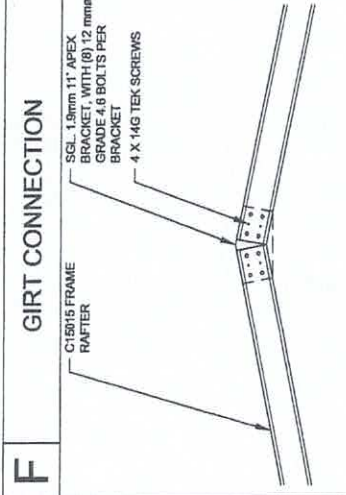
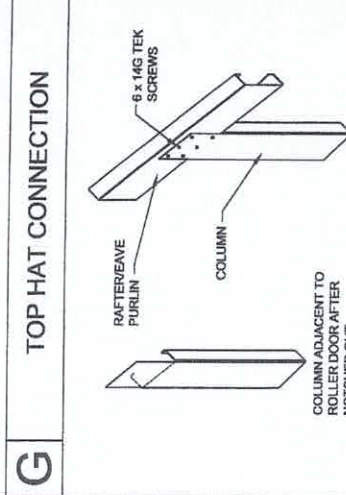
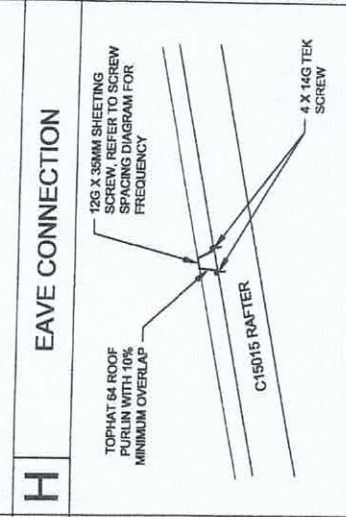
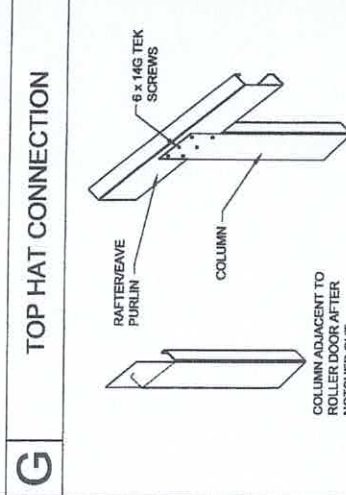
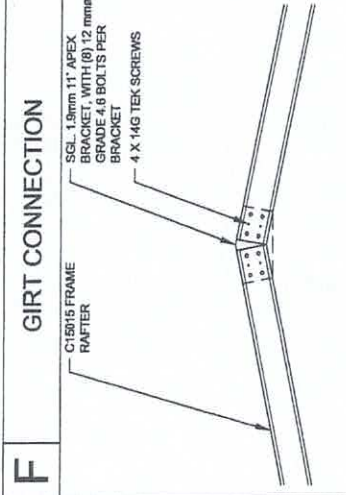
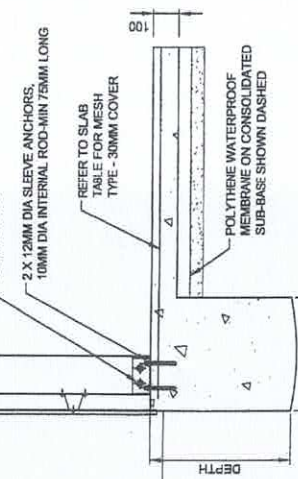
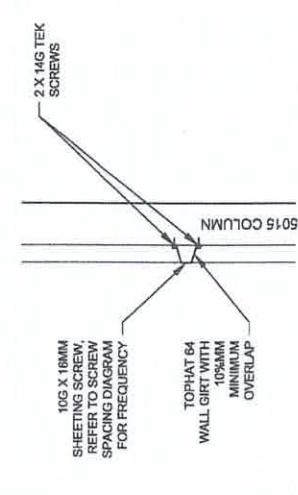
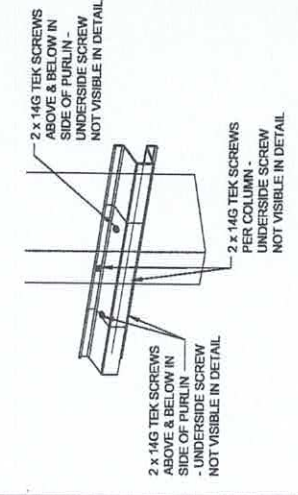
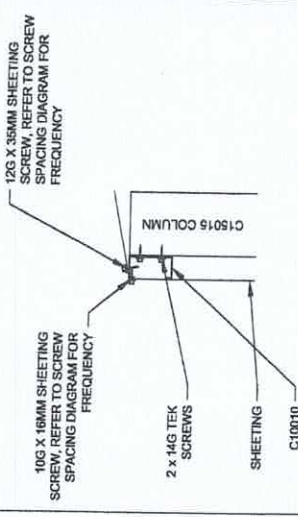
TOP HAT CONNECTION

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WALL SHEETING



Y

SLAB DETAIL



GIRT CONNECTION

G

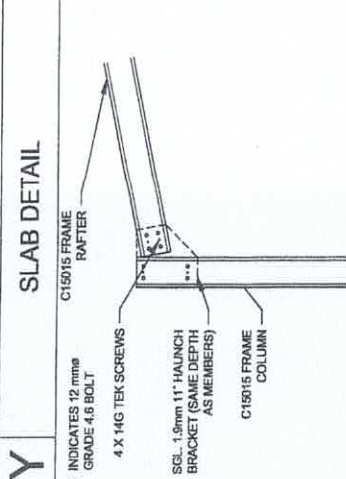
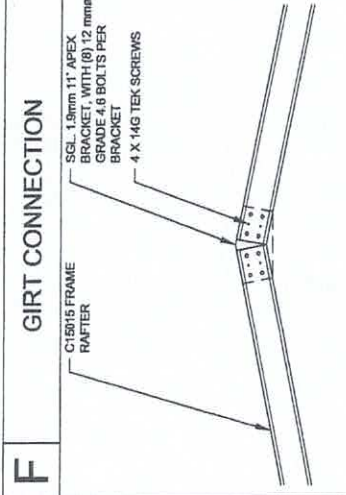
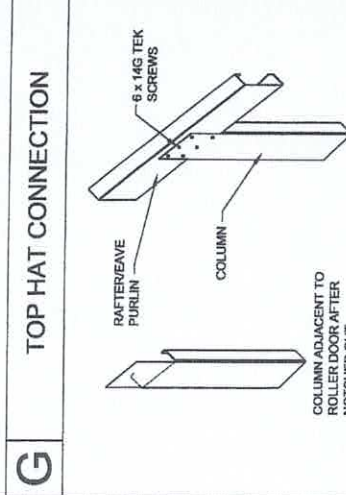
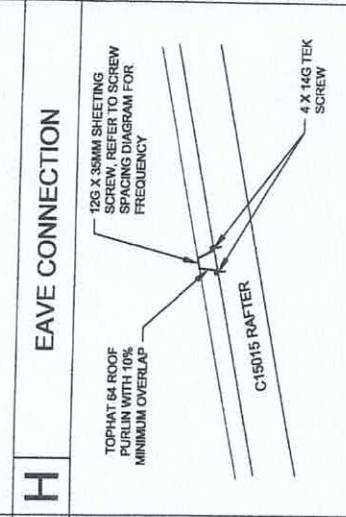
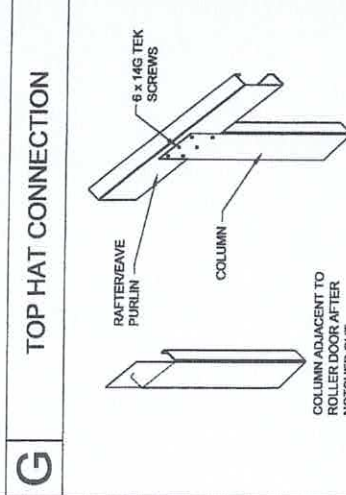
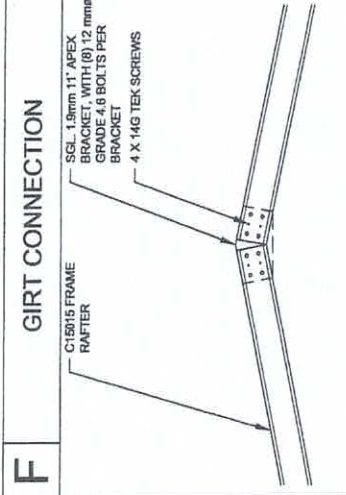
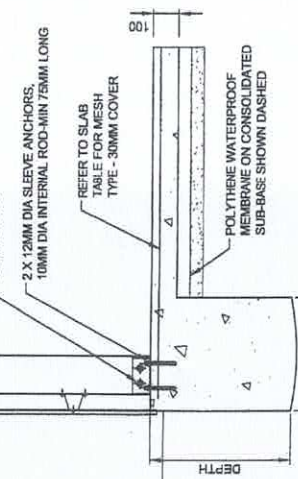
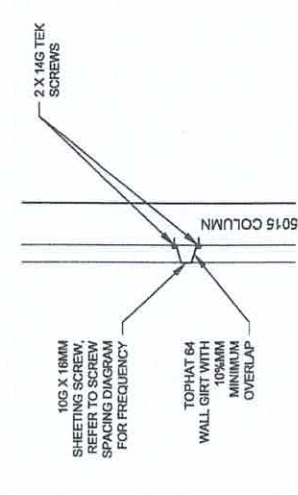
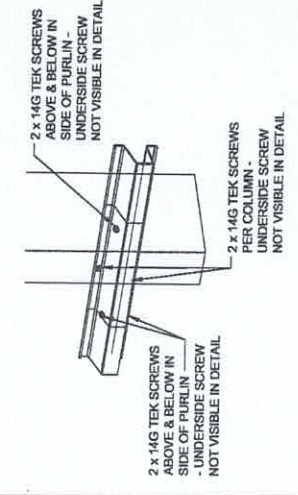
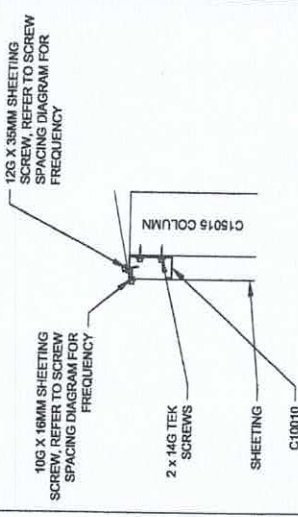
TOP HAT CONNECTION

H

EAVE CONNECTION

J

WALL SHEETING



Y

SLAB DETAIL



GIRT CONNECTION

G

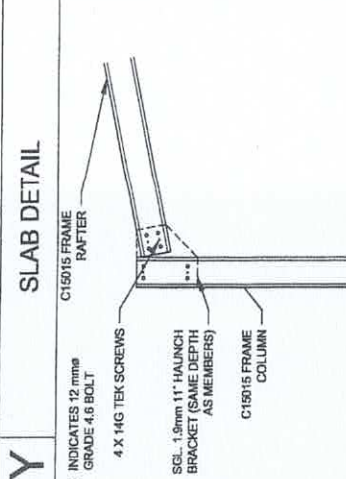
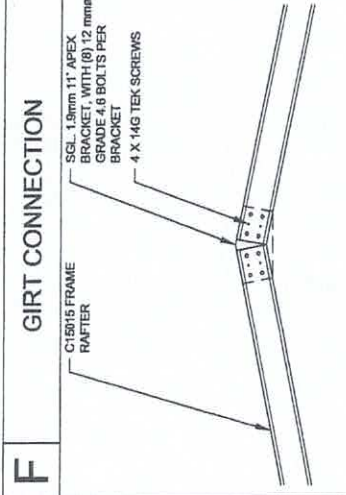
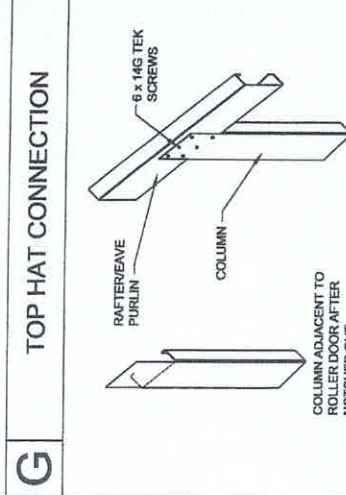
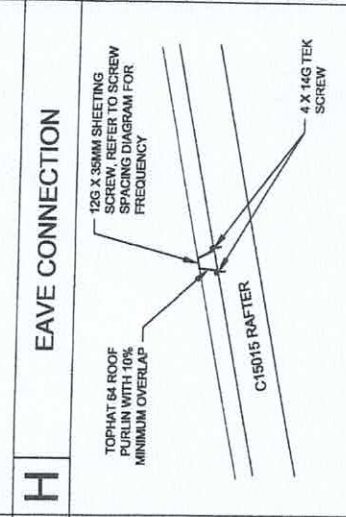
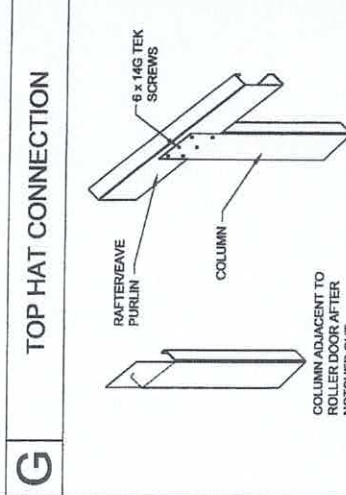
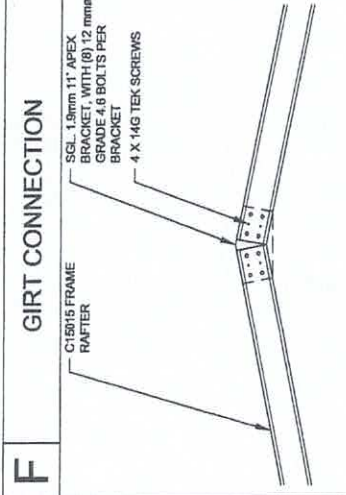
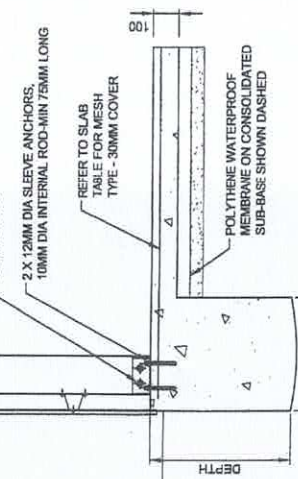
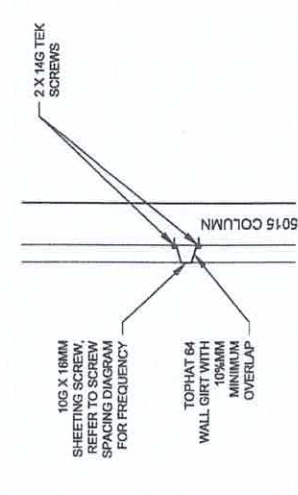
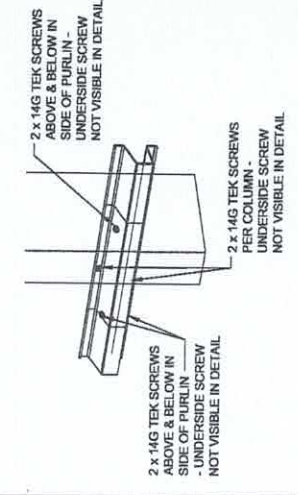
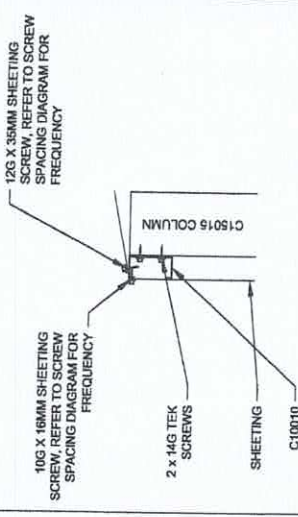
TOP HAT CONNECTION

H

EAVE CONNECTION

J

WALL SHEETING

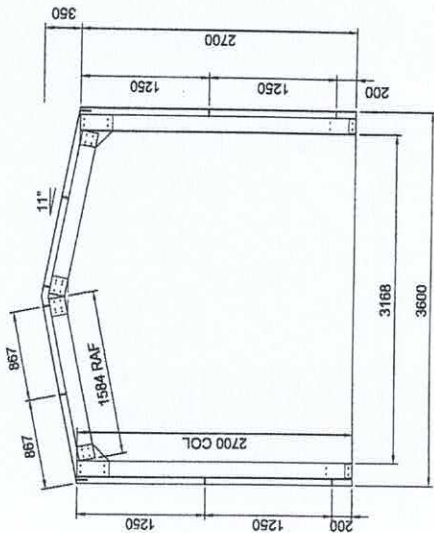


Y

SLAB DETAIL



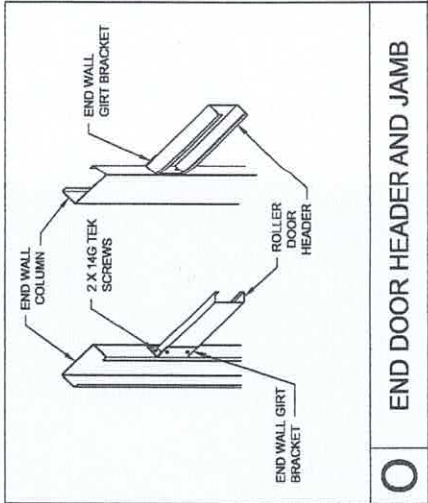
GIRT CONNECTION



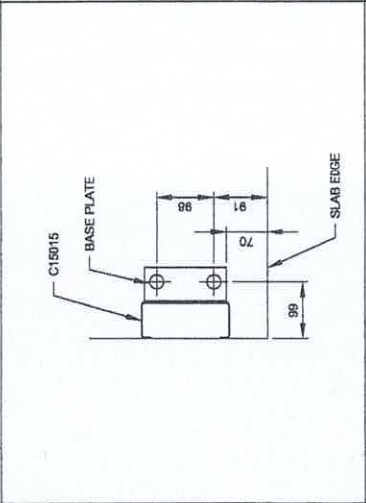
1 TYP. FRAME CROSS-SECTION

SCALE: 1:50

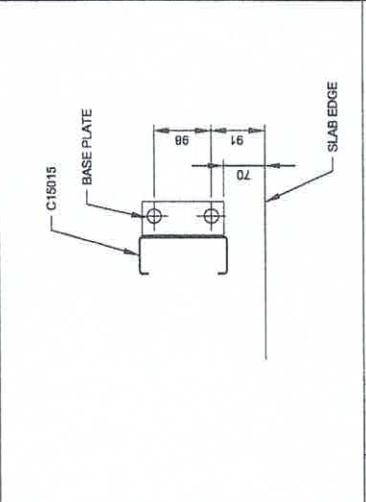
FRAME #2



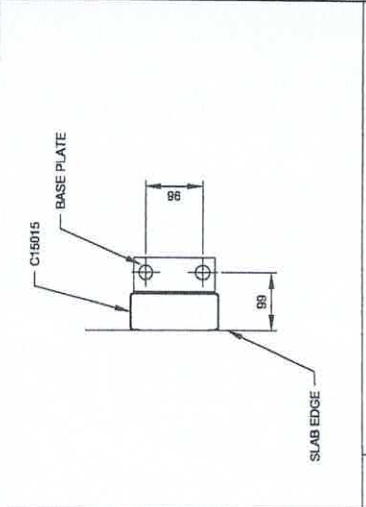
O END DOOR HEADER AND JAMB



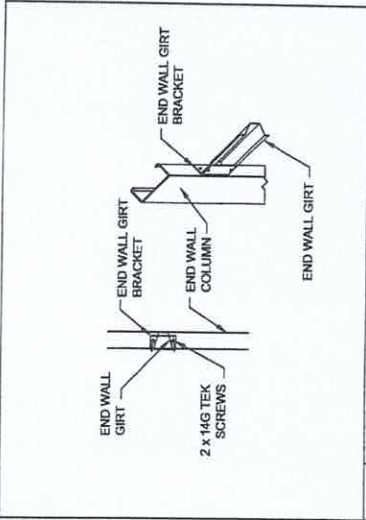
K CORNER COLUMN BASE



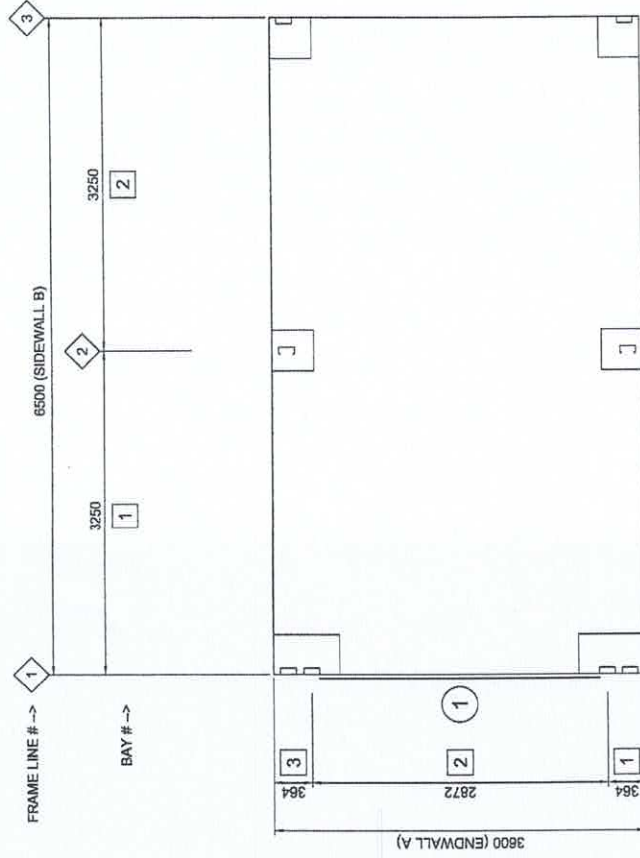
L INTERNAL COLUMN BASE



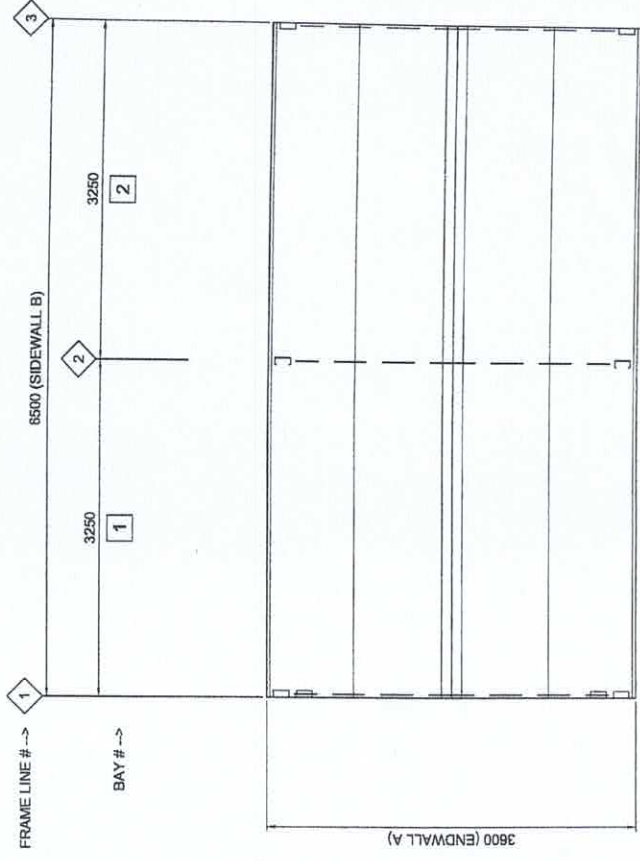
M ROTATED ENDWALL MULLION BASE



N ENDWALL GIRT BRACKET



1 FLOOR PLAN
SCALE: 1:50



2 ROOF FRAMING PLAN
SCALE: 1:50