

# PRIVATE WAITING AREA - PANGAI HA'APAI COURT HOUSE

## FOR FAMILIES FREE OF VIOLENCE


### AT PANGAI, HA'APAI

#### ARCHITECTURAL DRAWINGS

Layout ID	Layout Name
A.01	COVER PAGE
A.01	STRUCTURAL NOTES
A.02	SCOPE OF WORK
A.03	EXISTING FLOOR PLAN
A.04	PROPOSED FLOOR PLAN
A.05	ELEVATION VIEW
A.06	PERSPECTIVE VIEW
A.07	SECTION VIEW
A.08	ROOF PLAN & DETAILS
A.09	FOOTING PLAN & DETAILS
A.10	FLOORING DETAILS
A.11	WALL DETAILS 01 OF 02

#### ARCHITECTURAL DRAWINGS

Layout ID	Layout Name
A.12	WALL DETAILS 02 OF 02
A.13	WINDOW SCHEDULES
A.14	DOOR SCHEDULES & DETAILS
A.15	ELECTRICAL NOTES
A.16	ELECTRICAL PLAN

	PROJECT	EXTENSION WORKS FOR THE PANGAI, HA'APAI COURT HOUSE	TITLE	COVER PAGE	DRAWING NUMBER	REV.
	LOCATION	PANGAI, HA'APAI	DRAWN BY	AMK		
	CLIENT	FAMILIES FREE OF VIOLENCE (FFOV)	CHECKED BY	MK GROUP Tonga	A.01	
			DATE	08/12/2025		
			DRAWING STATUS	FOR APPROVAL		

# STRUCTURAL NOTES

FOR PERMIT

## GENERAL

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCIES SHALL BE REFERRED TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING WITH THE WORK.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT AS/NZS CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.
- SETTING-OUT DIMENSIONS AND SIZES OF STRUCTURAL MEMBERS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS. ANY SETTING-OUT DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS SHALL BE CHECKED BY THE CONTRACTOR BEFORE CONSTRUCTION COMMENCES. ANY DISCREPANCIES IN THE DOCUMENTS MUST BE RESOLVED BEFORE ORDERING OR PLACING ANY MATERIALS.
- DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A SAFE AND STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
- UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
- WIND LOADS ARE IN ACCORDANCE WITH AS 1170.2 AS FOLLOWS:  

BASIC WIND VELOCITY	Vu =70m/s
TERRAIN CATEGORY	2
REGION	C

## FORMWORK

- THE DESIGN CERTIFICATION, CONSTRUCTION AND PERFORMANCE OF THE FORMWORK AND FALSE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
- DESIGN AND CONSTRUCTION AND STRIPPING TIMES TO COMPLY WITH AS 3610 AND AS 3600 UNLESS OTHERWISE APPROVED BY THE CONTRACT ADMINISTRATOR.
- FOR FINISH TO FORMED CONCRETE SURFACES REFER TO SPECIFICATION.

## FOUNDATIONS

- THE LEVELS SHOWN ON THE DRAWINGS ARE FOR PRICING PURPOSES ONLY.
- ACTUAL FOOTINGS SHALL BE BASED ON A MATERIAL HAVING A SAFE BEARING CAPACITY AS LISTED BELOW UNLESS OTHERWISE NOTED, AND SHALL BE INSPECTED BY THE CONTRACT ADMINISTRATOR BEFORE CONCRETE IS PLACED.
- DUE TO THE ABSENCE OF DATA OF THE SOIL BEARING CAPACITY WE RECOMMEND THE USE OF SAFE BEARING OF 100 kPa. IF CONTRACTOR FOUND THAT THE ACTUAL SOIL BEARING CONDITION IS LOWER THAN RECOMMENDED HE/SHE SHALL PROMPTLY INFORM THE CONTRACT ADMINISTRATOR OR THE CONSULTANT TO RE-INVESTIGATE & RE-DESIGN THE FOOTING ACCORDINGLY.
- SUB-BASE FOR SLABS ON GROUND AND BACKFILL OVER FOOTINGS SHALL BE APPROVED GRANULAR MATERIAL COMPACTED IN LAYERS OF 150 mm MAXIMUM TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289. PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3600.

## CONCRETE

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH NZS3109.1997 & NZS 3101.1997 AND THE CONCRETE SPECIFICATION.
- CONCRETE QUALITY.

ELEMENT	SLUMP	MAX SIZE AGG	CONCRETE GRADE
ALL (U.N.O)	80	20	25
BLOCK FILL	200	10	20
FOUNDATION	80	20	25
SLAB	80	20	25
BEAM	80	20	25

- NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
- MINIMUM CLEAR COVER TO REINFORCEMENT TO BE 75mm MIN TO TIES IN EXPOSED EXTERNAL FACES OF STRIP FOOTINGS. COVER TO SLAB REINFORCEMENT TO BE 30mm FROM TOP OF SLAB.
- ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON PLASTIC CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- CONCRETE DIMENSIONS SHOWN DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES.
- FOR CHAMFERS, DRIP GROOVES, FILLETS ETC REFER TO ARCHITECTS DETAILS, MAINTAIN COVER TO REINFORCEMENT AT THESE DETAILS.

- NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE CONTRACT ADMINISTRATOR.
- CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE CONTRACT ADMINISTRATOR.
- THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- CURING OF ALL CONCRETE SHALL BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS, AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED ON CURING COMPOUNDS MAY BE USED WHERE NO FLOOR FINISHES ARE PROPOSED. POLYTHENE SHEETING OR WET HESSIAN MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.
- THE CONTRACT ADMINISTRATOR SHALL BE GIVEN A MINIMUM OF 24 HOURS NOTICE FOR REINFORCEMENT INSPECTION AND CONCRETE SHALL NOT BE DELIVERED UNTIL FINAL APPROVAL IS OBTAINED.
- CONDUITS, PIPES ETC, SHALL ONLY BE LOCATED IN THE MIDDLE ONE THIRD OF SLAB DEPTH AND SPACED AT NOT LESS THAN 3 DIAMETERS.

## STEEL REINFORCEMENT

- ALL STEEL REINFORCEMENT SHALL BE GRADE 500E. REINFORCEMENT SYMBOLS:  

3 D12	D12 @ 170
3 (NUMBER OF BARS IN GROUP)	D (BAR GRADE AND TYPE)
D (BAR GRADE AND TYPE)	12 (NOMINAL BAR SIZE IN mm)
12 (NOMINAL BAR SIZE IN mm)	170 (SPACING IN mm)

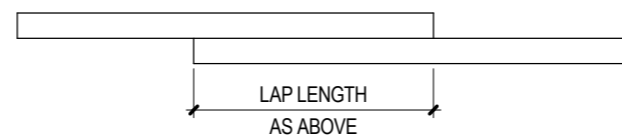
THE FIGURE FOLLOWING THE FABRIC SYMBOL F IS THE REFERENCE NUMBER FOR FABRIC TO AS 1304.

- REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE
- SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITION SHOWN OR OTHERWISE APPROVED IN WRITING BY THE CONTRACT ADMINISTRATOR.
- WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE CONTRACT ADMINISTRATOR.
- JOGGLES TO BARS SHALL BE 1 BAR DIAMETER OVER A LENGTH OF 12 BAR DIAMETERS UNLESS NOTED OTHERWISE.
- FABRIC SHALL BE LAPPED 2 TRANSVERSE WIRES PLUS 50mm.
- CONCRETE BELOW GROUND IN WALLS, BEAMS, OR PEDESTALS SHALL BE PLACED INTO PROPERLY CONSTRUCTED FORMS. IF APPROVED BY THE CONTRACT ADMINISTRATOR, CONCRETE MAY BE PLACED AGAINST AN EARTH FACE BUT THE CONCRETE DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE INCREASED TO PROVIDE 20mm ADDITIONAL COVER TO THE REINFORCEMENT ADJACENT THE EARTH FACE.
- A BOND BREAKING MATERIAL SHALL BE PLACED BETWEEN CONTACTING SURFACES AT CONTRACTION JOINTS. REINFORCEMENT SHALL NOT BE CONTINUOUS THROUGH CONTRACTION JOINTS.
- AT PENETRATIONS IN SLABS UNLESS OTHERWISE DETAILED REINFORCEMENT SHALL NOT BE CUT BUT SHALL BE GATHERED EQUALLY TO EACH SIDE OF PENETRATION AND EXTRA REINFORCEMENT PROVIDED BETWEEN THE PENETRATIONS AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- LAP LENGTHS 40XBAR DIAMETER UNLESS NOTED OTHERWISE LAPS TO BE STAGGERED AND BARS AS LONG AS PRACTICABLE.

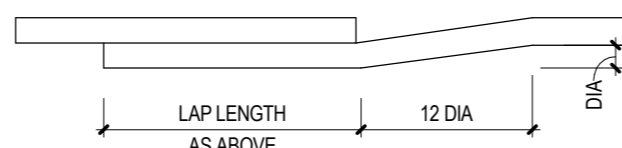
BAR SIZE	DEFORMED GRADE 300	DEFORMED GRADE 500
D10	400MM	600MM
D12	500MM	700MM
D16	650MM	950MM
D20	800MM	1200MM

- THE FOLLOWING TYPES OF LAPS ARE TO BE USED:

PARALLEL LAP-TYPICAL FOR WALLS AND SLABS UNLESS DETAILED OTHERWISE.



OFFSET LAP-TYPICAL FOR BEAMS & COLUMNS UNLESS DETAILED OTHERWISE.



## STRUCTURAL TIMBER

- ALL WORKMANSHIP SHALL BE DONE IN ACCORDANCE WITH THE RELEVANT AS AND NZS CODES.
- ALL TIMBERS STRUCTURAL TIMBER (WALL, FRAMES, RAFTER) EXCEPT FOR PURLINS SHALL BE TREATED TO H3 STANDARD AND CONFORM TO AS1720.1
- ALL TIMBERS SHALL HAVE A MC 14% +/-3%
- PRIME ALL END GRAIN 2 - 3 THICK COATS OF PRIMER BEFORE ASSEMBLY
- ALL NAILS SHALL BE GALVANIZED AND OF LENGTH 2.5 TIMES THE THICKNESS OF TIMBER BEING SECURED AND OF ADEQUATE GAUGE
- ALL TIMBER SHALL BE STRESS GRADED MSG8 OR EQUIVALENT UNLESS OTHERWISE STIPULATED.
- ALL TIE DOWNS AND NAILING/FIXING PATTERNS BETWEEN ELEMENTS SHALL BE IN ACCORDANCE AND AS 1684.3-2010 OR NZS 3604:2011 UNLESS SHOWN ON THE DRAWINGS.
- EXTERNAL LINING SHALL BE DIAPHRAGM BRACING WITH A NAILING/FIXING PATTERN IN ACCORDANCE AS 1684.3-2010.

## BOLTING

- ALL BOLTS SHALL BE COMMERCIAL GRADE AS1111, USED IN CONFORMITY WITH AS 4100. ALL BOLTS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED.
- BOLT GRADES ARE NOTED AS FOLLOWS:  
 - COMMERCIAL BOLTS M12 - 4.6/S  
 - MINIMUM TENSILE STRENGTH Fu = 400MPa  
 - TENSIONING METHOD = SNUG TIGHT
- ALL BOLT HOLES SHALL BE 1MM LARGER THAN THE NOMINAL BOLT DIAMETER UNLESS OTHERWISE NOTED.
- ALL TIMBER-TO-TIMBER BOLTED STRUCTURAL JOINTS, EVERY BOLT SHALL BE FITTED WITH A WASHER AT EACH END.
- HOLD DOWN BOLTS BE SUPPLIED COMPLETE WITH LEVELING NUTS, HOLD DOWN NUTS AND WASHERS. HOLD DOWN BOLTS SHALL FALL WITH 150MM FROM EACH FACE OF STUDS.

## REINFORCED BLOCKWORK

- ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH AS 3700
- ALL BLOCKS SHALL BE STRENGTH GRADE 12.5 MPa.
- ALL MORTAR SHALL CONSIST OF PORTLAND CEMENT, HYDRATED LIME AND SAND IN THE PROPORTIONS OF 1:0.25:3 BY VOLUME RESPECTIVELY.
- CHASES AND HOLES SHALL NOT BE MADE IN BLOCKWORK WITHOUT THE APPROVAL OF THE CONTRACT ADMINISTRATOR.
- JOINT THICKNESS SHALL BE MINIMUM 6 mm AND MAXIMUM 12 mm. FACE SHELLS AND PERPENDS SHALL BE FULLY BEDDED IN MORTAR.
- ALL CORES ARE TO BE FILLED WITH 20 MPa CONCRETE (10 mm AGGREGATE SIZE, MAXIMUM SLUMP 200).
- PROVIDE CLEAN OUT HOLES AT BOTTOM OF ALL FILLED CORES.
- PROVIDE 65 mm COVER FROM THE OUTSIDE OF THE BLOCKWORK TO ALLOW ADEQUATE GROUT COVER TO REINFORCEMENT.
- PROVIDE VERTICAL JOINTS IN BLOCKWORK AT MAX 10 METRE CENTRES UNLESS NOTED OTHERWISE (UNO).
- BLOCKWORK SHALL COMPLY WITH AS 3700
- ALL GROUT SHALL BE S17/10

## CONSTRUCTION NOTES

- ALL CONSTRUCTION SHALL CONFORM TO:  
 - SPECIFICATION  
 - CONDITION OF THE CONTRACT  
 - AS/NZS/TONGA NATIONAL BUILDING CODE
- THE SETTING OUT AND ELEVATION OF THE STRUCTURE SHALL BE APPROVED BY THE CONTRACT ADMINISTRATOR PRIOR TO THE START OF ANY CONSTRUCTION WORK.
- THE CONTRACTOR SHALL VERIFY THE BOUNDARIES OF THE STRUCTURE. HE/SHE SHALL PROVIDE AREAS THAT REQUIRE HIS OWN USE. IT IS THE INTENTION OF THE PLANS TO UNDISTRIBUTE EVERYTHING ON THE UNFINISHED WORK. ALL DISTURBED AREAS BY CONSTRUCTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION. AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- ALL EXISTING STRUCTURE AND OBSTRUCTION WHICH WILL INTERFERE THE WORKS SHALL BE COMPLETELY REMOVED AND DISPOSE OFF FROM THE SITE.
- ALL SOLVAREABLE MATERIALS SHALL BE PROPERLY AND CAREFULLY DISMANTLED AND DEPOSITED ON A CONVENIENT SITE AS INSTRUCTED BY THE CONTRACT ADMINISTRATION.

	PROJECT	EXTENSION WORKS FOR THE PANGAI, HA'APAI COURT HOUSE	TITLE	STRUCTURAL NOTES	DRAWING NUMBER	REV.
	LOCATION	PANGAI, HA'APAI	DRAWN BY	AMK	A.01	
	CLIENT	FAMILIES FREE OF VIOLENCE (FFOV)	CHECKED BY	MK GROUP Tonga		
			DATE	08/12/2025		
			DRAWING STATUS	FOR APPROVAL		



EXISTING ROOF STRUCTURE TO BE MATCH WITH NEW ROOFING FOR THE EXTENSION

EXISTING HAND RAILING TO BE MAINTAIN NOT TO DEMOLISH

EXISTING REMOVABLE PLANTER TO BE RELOCATE. REFER TO PROJECT MANAGER

**FRONT VIEW - EXISTING VERANDAH**  
NOT TO SCALE



EXISTING RAMP

EXISTING TOILET AREA TO BE MAINTAIN

EXISTING AREA FOR THE NEW EXTENSION

**FRONT VIEW - EXISTING VERANDAH**  
NOT TO SCALE



EXISTING WATER TAP TO BE RELOCATE. REFER TO PROJECT MANAGER FOR NEW LOCATION

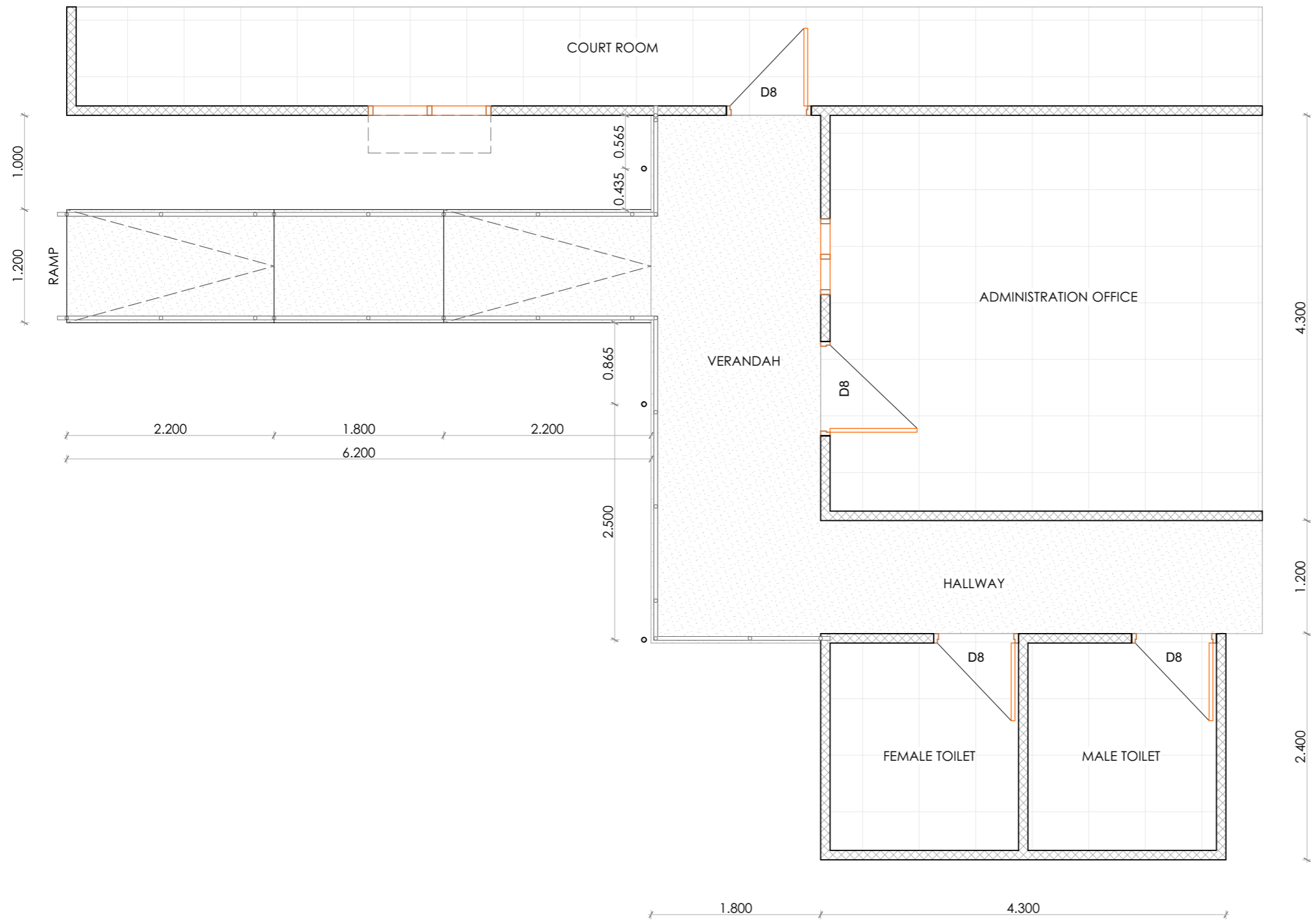
EXISTING AREA TO INSTALL NEW STEPS FOR ACCESSABILITY

EXISTING AREA FOR THE NEW EXTENSION

**FRONT VIEW - EXISTING VERANDAH**  
NOT TO SCALE

DO NOT SCALE OFF THIS DRAWING  
All dimensions should be checked on site prior to construction.

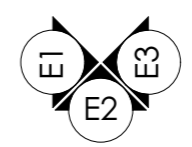
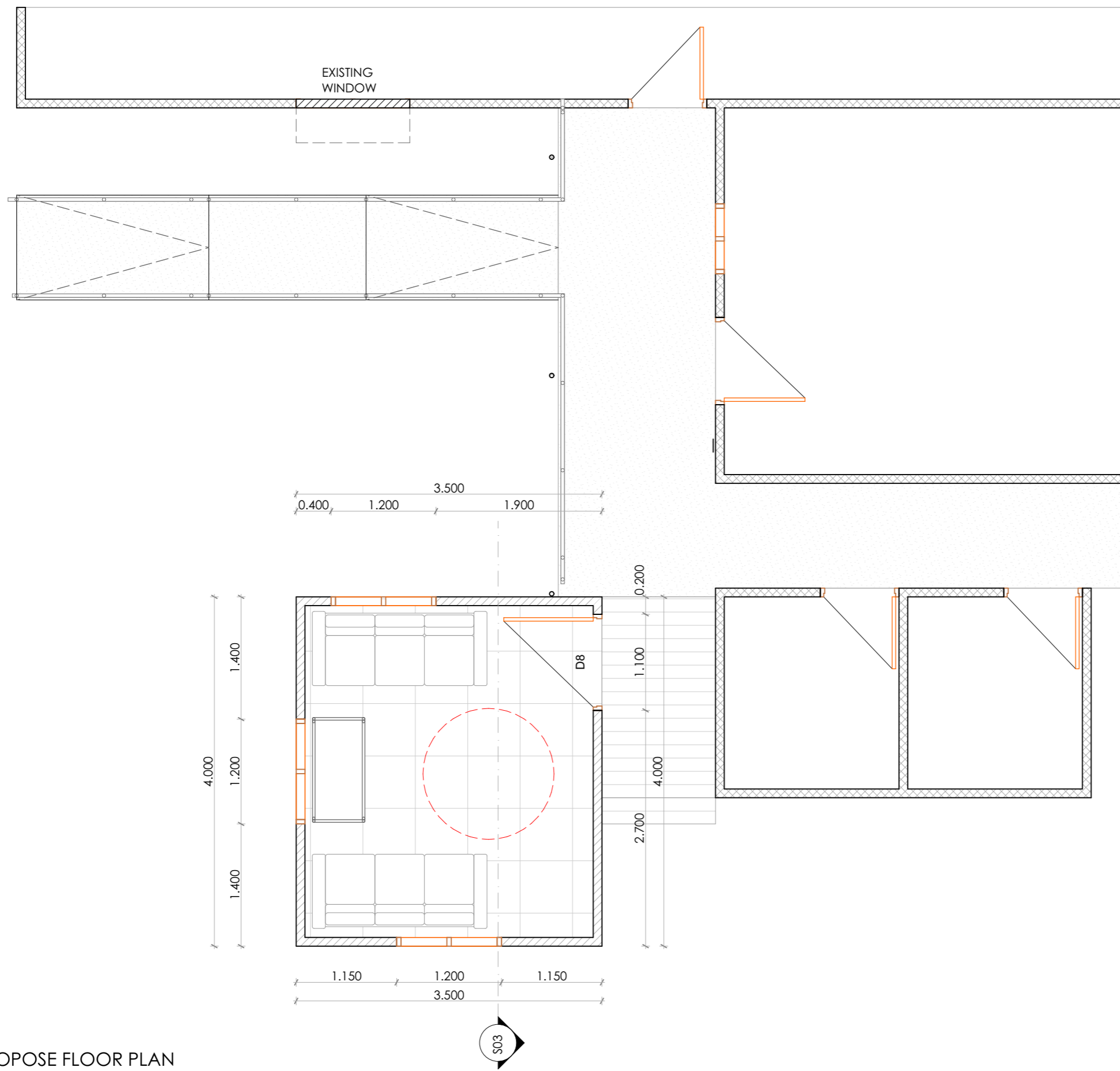
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	LOCATION	PANGAI, HA'APAI	DRAWN BY	AMK		
	CLIENT	FAMILIES FREE OF VIOLENCE (FFOV)	CHECKED BY	MK GROUP Tonga	A.02	
			DATE	08/12/2025		
		DRAWING STATUS	FOR APPROVAL			



EXISTING FLOOR PLAN  
1:50

DO NOT SCALE OFF THIS DRAWING  
All dimensions should be checked on site prior to construction.

	PROJECT	EXTENSION WORKS FOR THE PANGAI, HA'APAI COURT HOUSE	TITLE	EXISTING FLOOR PLAN	DRAWING NUMBER	REV.
	LOCATION	PANGAI, HA'APAI	DRAWN BY	AMK	A.03	
	CLIENT	FAMILIES FREE OF VIOLENCE (FFOV)	CHECKED BY	MK GROUP Tonga		
			DATE	08/12/2025		
			DRAWING STATUS	FOR APPROVAL		

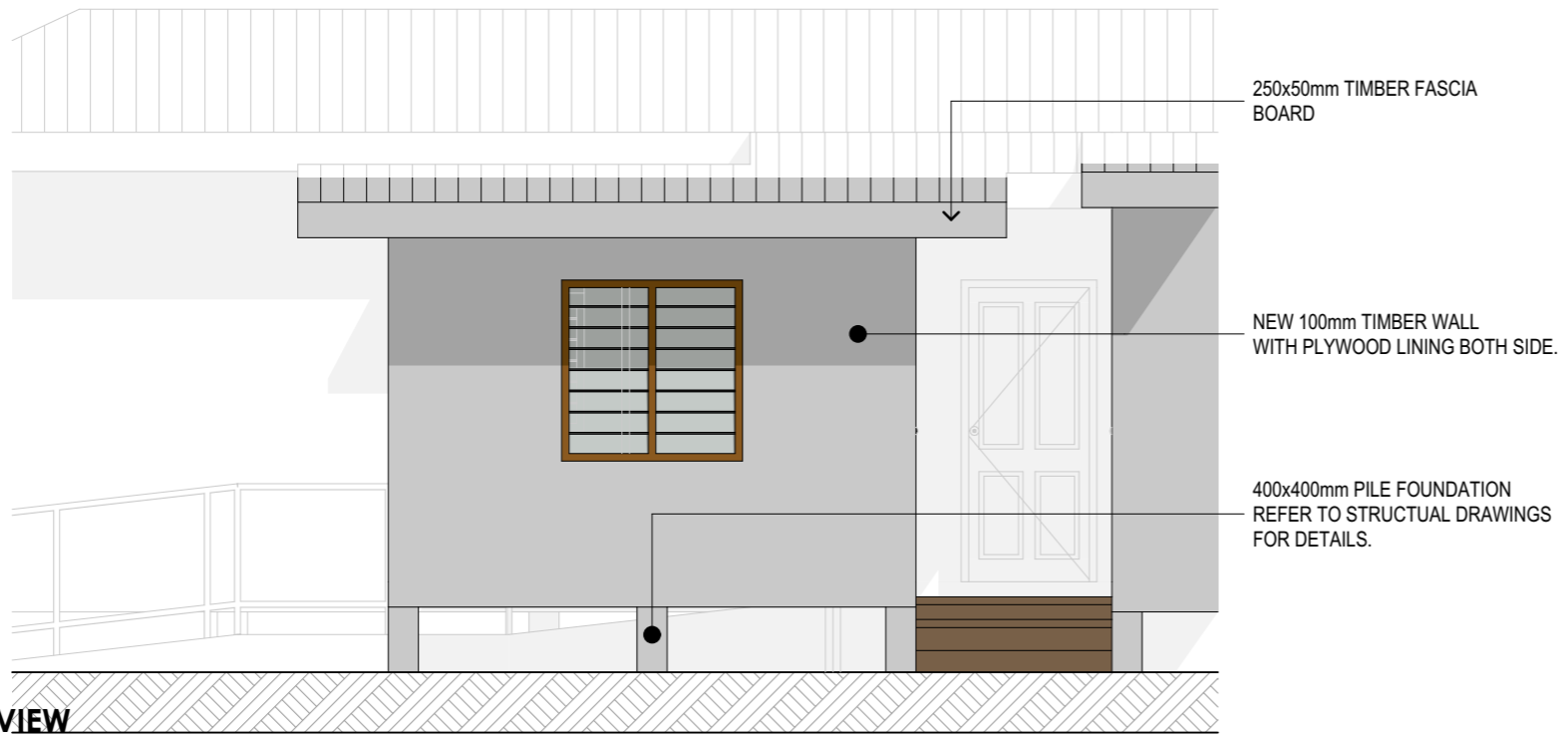


- EXISTING WALL
- EXISTING DECK
- 100mm NEW TIMBER WALL
- NEW 600x600mm CERAMIC TILES
- CONCRETE SLAB WITH BROOM BRUSH FOR RAMP
- TIMBER DECK

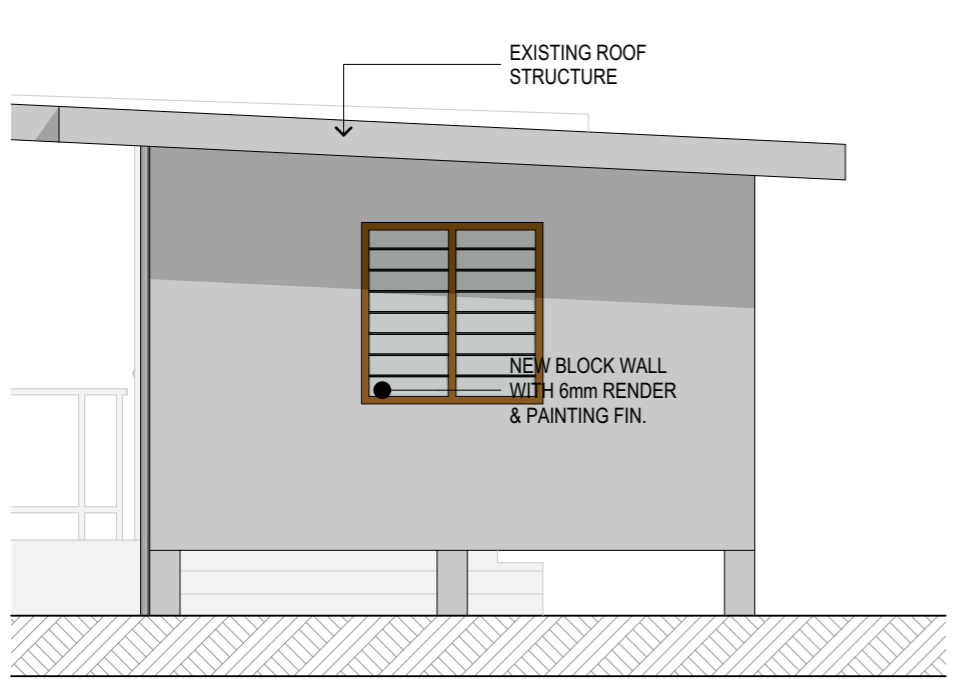
PROPOSE FLOOR PLAN  
1:50

DO NOT SCALE OFF THIS DRAWING  
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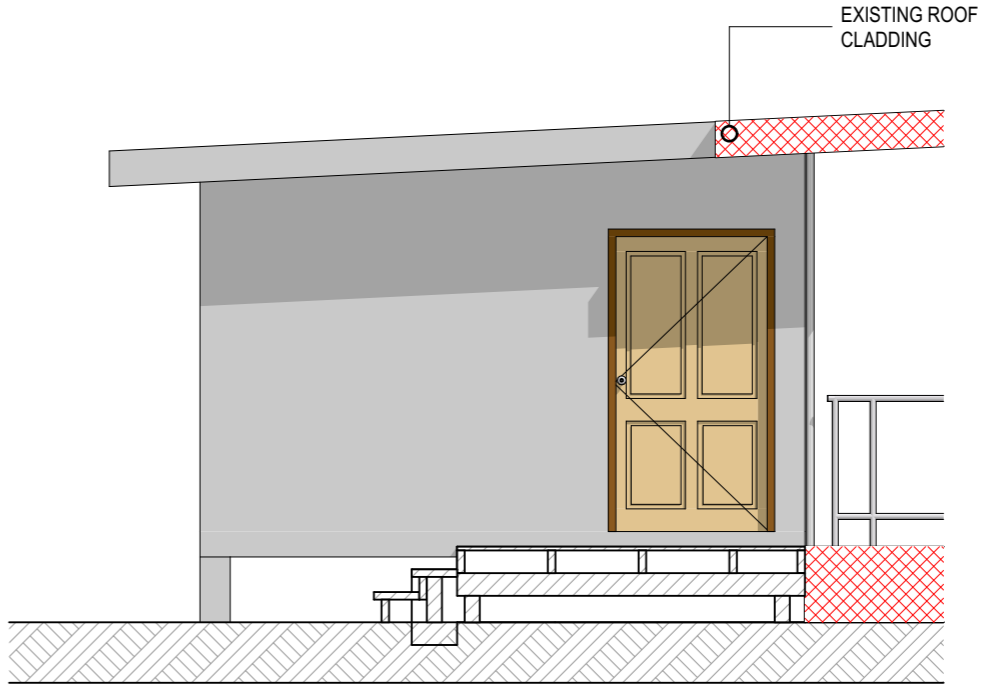
<p><b>Famili Fiefia 'Oua Vatamaki Tonga</b></p>	PROJECT	EXTENSION WORKS FOR THE PANGAI, HA'APAI COURT HOUSE	TITLE	PROPOSED FLOOR PLAN	DRAWING NUMBER	REV.
	LOCATION	PANGAI, HA'APAI	DRAWN BY	AMK	A.04	
	CLIENT	FAMILIES FREE OF VIOLENCE (FFOV)	CHECKED BY	MK GROUP Tonga		
	DATE	08/12/2025	DRAWING STATUS	FOR APPROVAL		



**E2 - ELEVATION VIEW**  
1:50



**E1 - ELEVATION VIEW**  
1:50




**E3 - ELEVATION VIEW**  
1:50

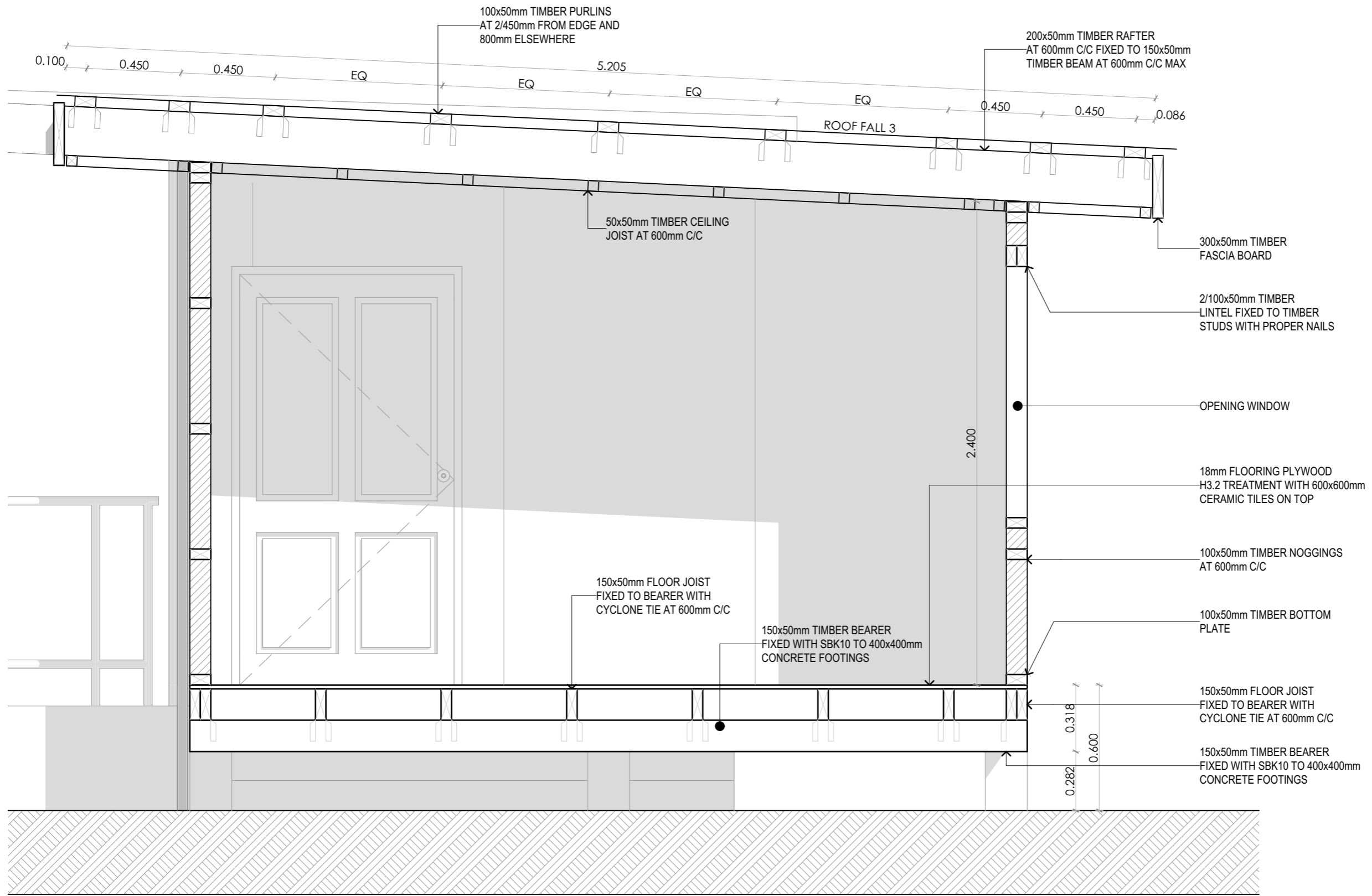
DO NOT SCALE OFF THIS DRAWING  
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	PROJECT	EXTENSION WORKS FOR THE PANGAI, HA'APAI COURT HOUSE	TITLE	ELEVATION VIEW	DRAWING NUMBER	REV.
	LOCATION	PANGAI, HA'APAI	DRAWN BY	AMK	A.05	
	CLIENT	FAMILIES FREE OF VIOLENCE (FFOV)	CHECKED BY	MK GROUP Tonga		
			DATE	08/12/2025		
			DRAWING STATUS	FOR APPROVAL		



DO NOT SCALE OFF THIS DRAWING  
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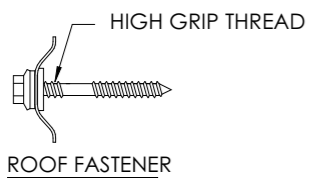
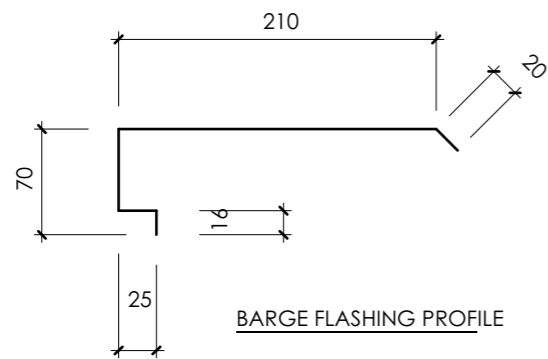
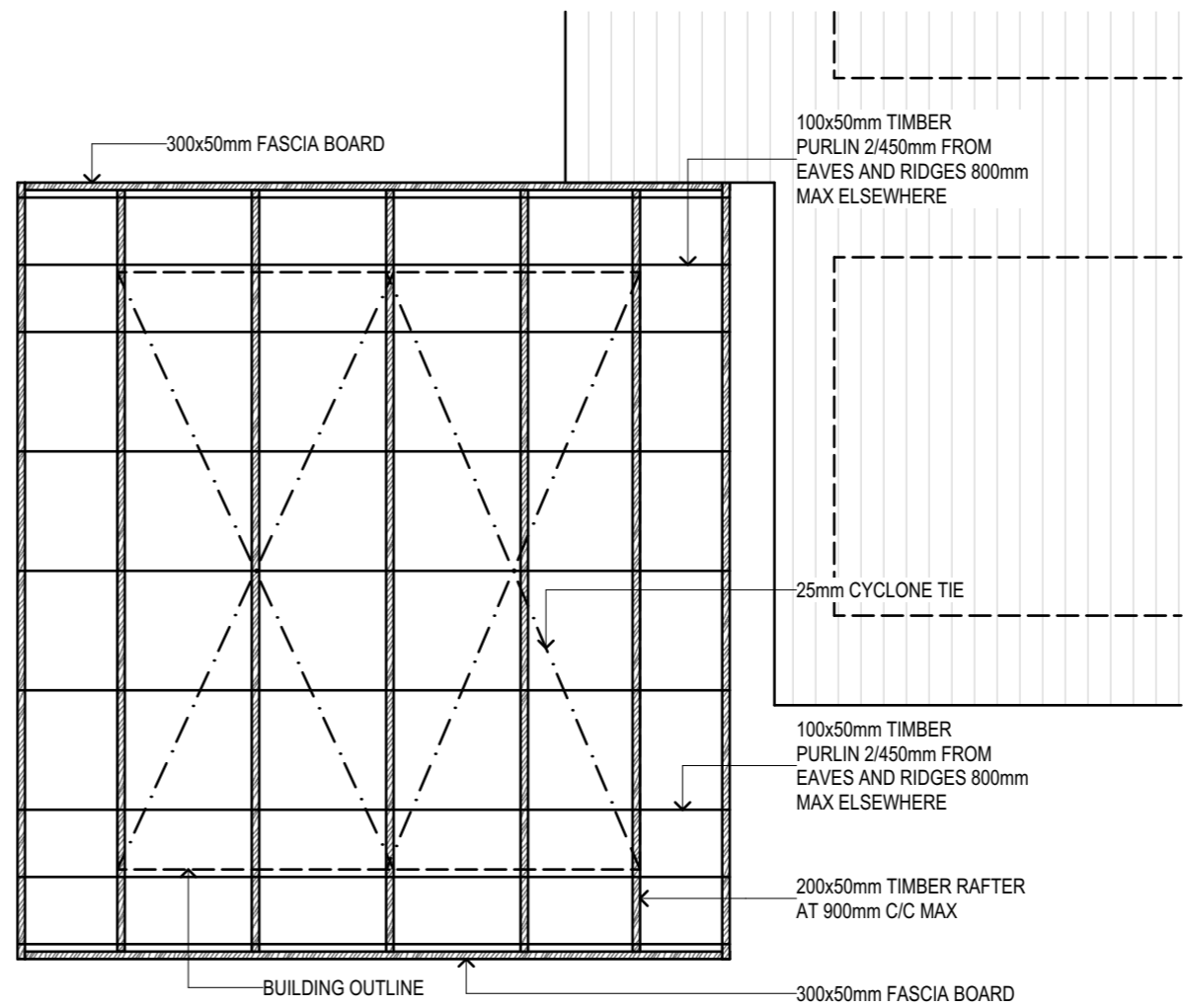
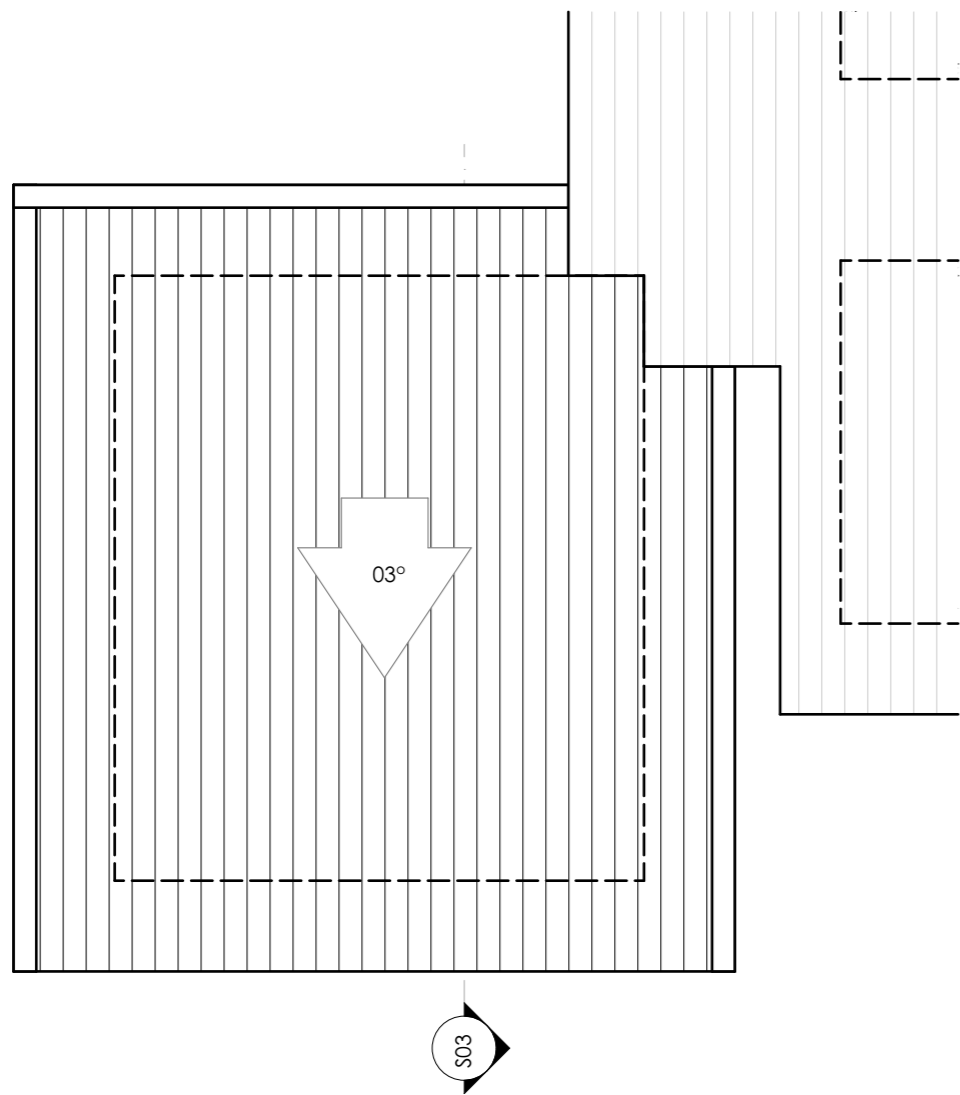
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	LOCATION	PANGAI, HA'APAI	DRAWN BY	AMK	A.06	
	CLIENT	FAMILIES FREE OF VIOLENCE (FFOV)	CHECKED BY	MK GROUP Tonga		
			DATE	08/12/2025		
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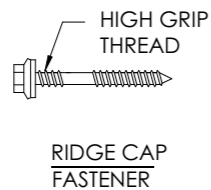
DO NOT SCALE OFF THIS DRAWING  
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	PROJECT	EXTENSION WORKS FOR THE PANGAI, HA'APAI COURT HOUSE	TITLE	SECTION VIEW	DRAWING NUMBER	REV.
	LOCATION	PANGAI, HA'APAI	DRAWN BY	AMK	A.07	
	CLIENT	FAMILIES FREE OF VIOLENCE (FFOV)	CHECKED BY	MK GROUP Tonga		
			DATE	08/12/2025		
			DRAWING STATUS	FOR APPROVAL		

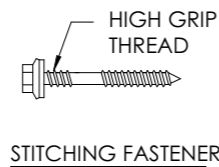




#14-11x65MM TYPE 17 WITH HIGH GRIP THREAD AND SQAURE-LOK CYCLONE WASHER OR EQUIVALENT. 65MM MINIMUM EMBEDMENT INTO PURLIN



#14-11x65MM TYPE 17 WITH HIGH GRIP THREAD AND RUBBER WASHER. 50MM MINIMUM EMBEDMENT INTO PURLIN.



#14-10x65MM TYPE 17 WITH HIGH GRIP THREAD AND RUBBER WASHER. 35MM MINIMUM EMBEDMENT INTO PURLIN.

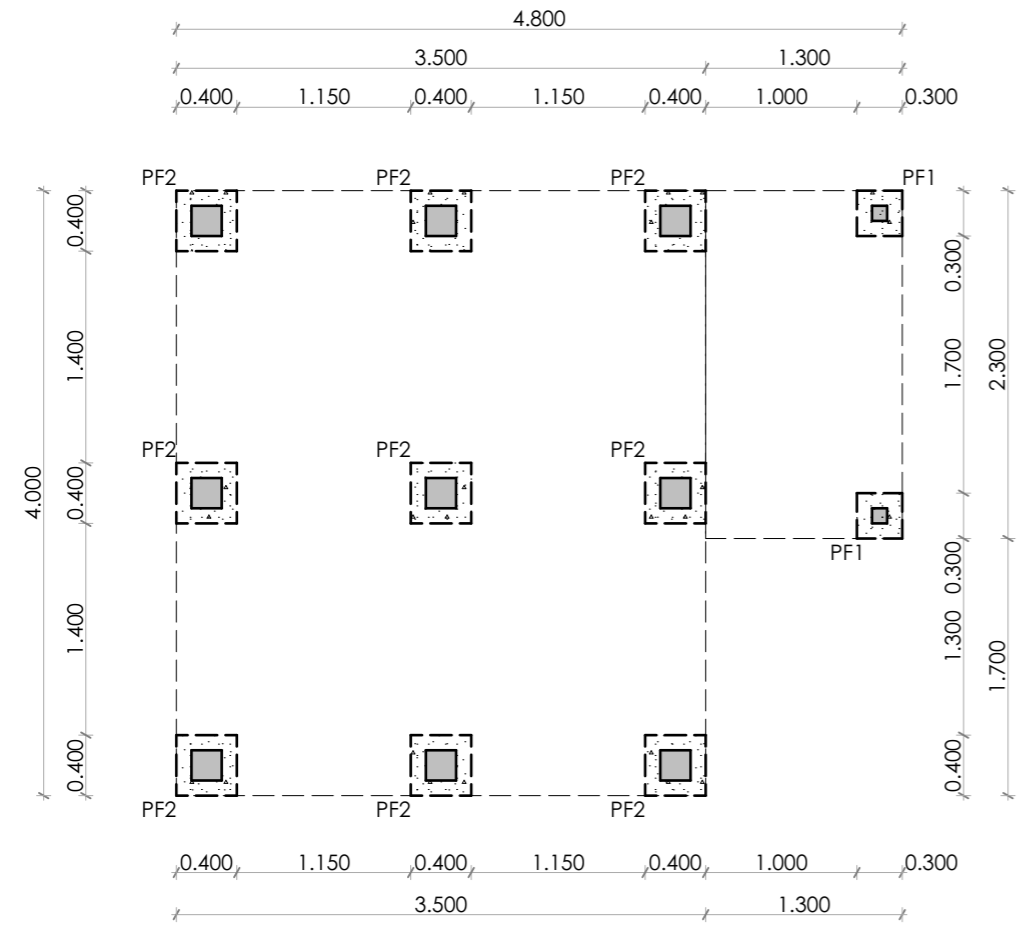
DO NOT SCALE OFF THIS DRAWING  
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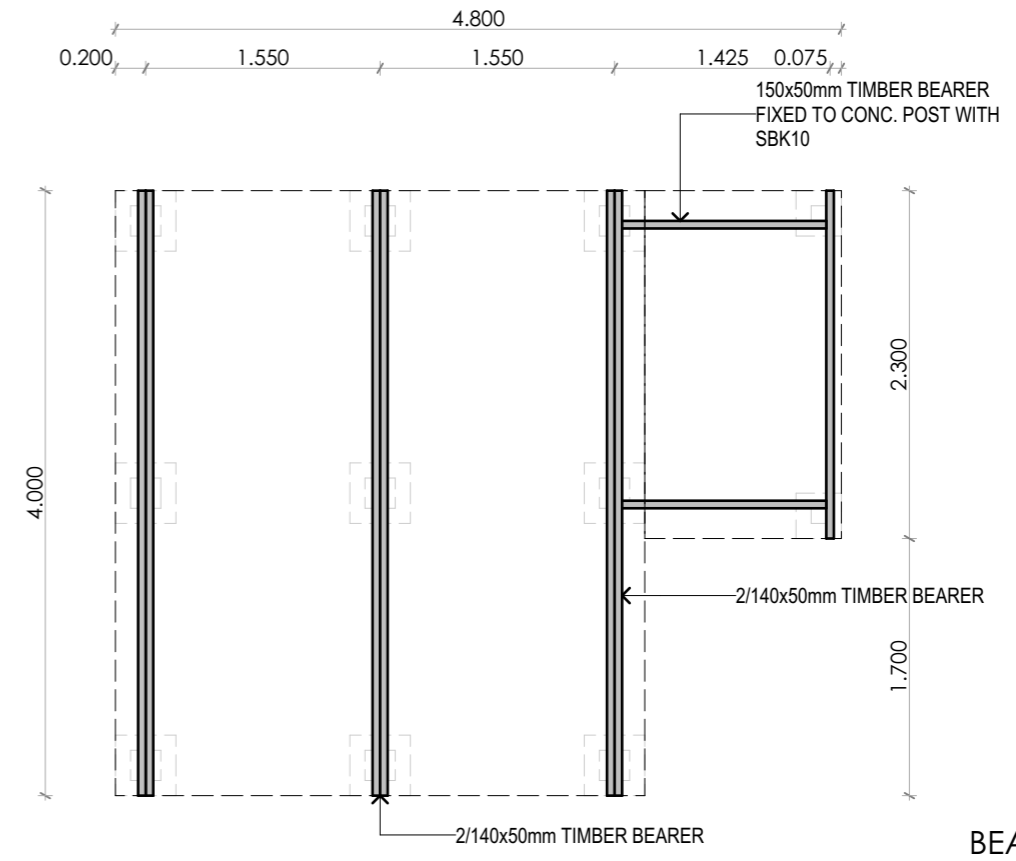
PROJECT	EXTENSION WORKS FOR THE PANGAI, HA'APAI COURT HOUSE
LOCATION	PANGAI, HA'APAI
CLIENT	FAMILIES FREE OF VIOLENCE (FFOV)

TITLE	ROOF PLAN & DETAILS
DRAWN BY	AMK
CHECKED BY	MK GROUP Tonga
DATE	08/12/2025
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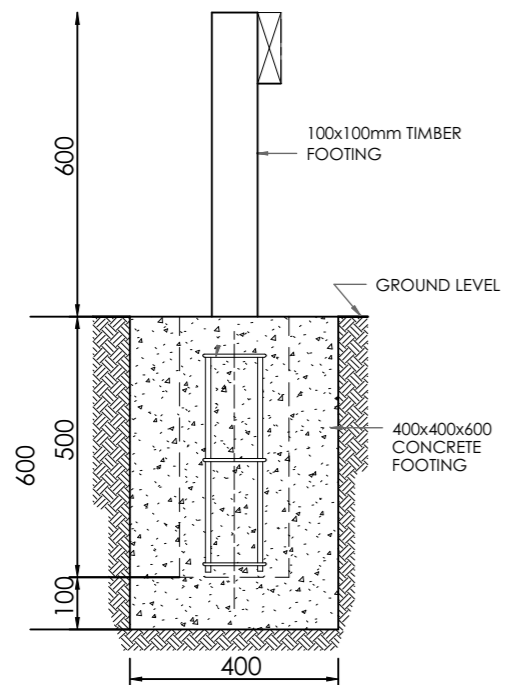
DRAWING NUMBER	REV.
A.08	



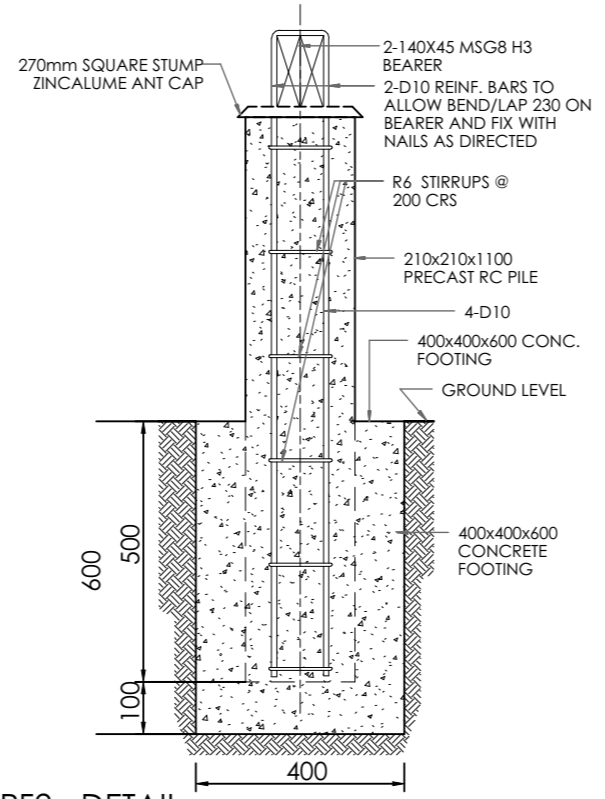
**FOOTING PLAN**  
1:50



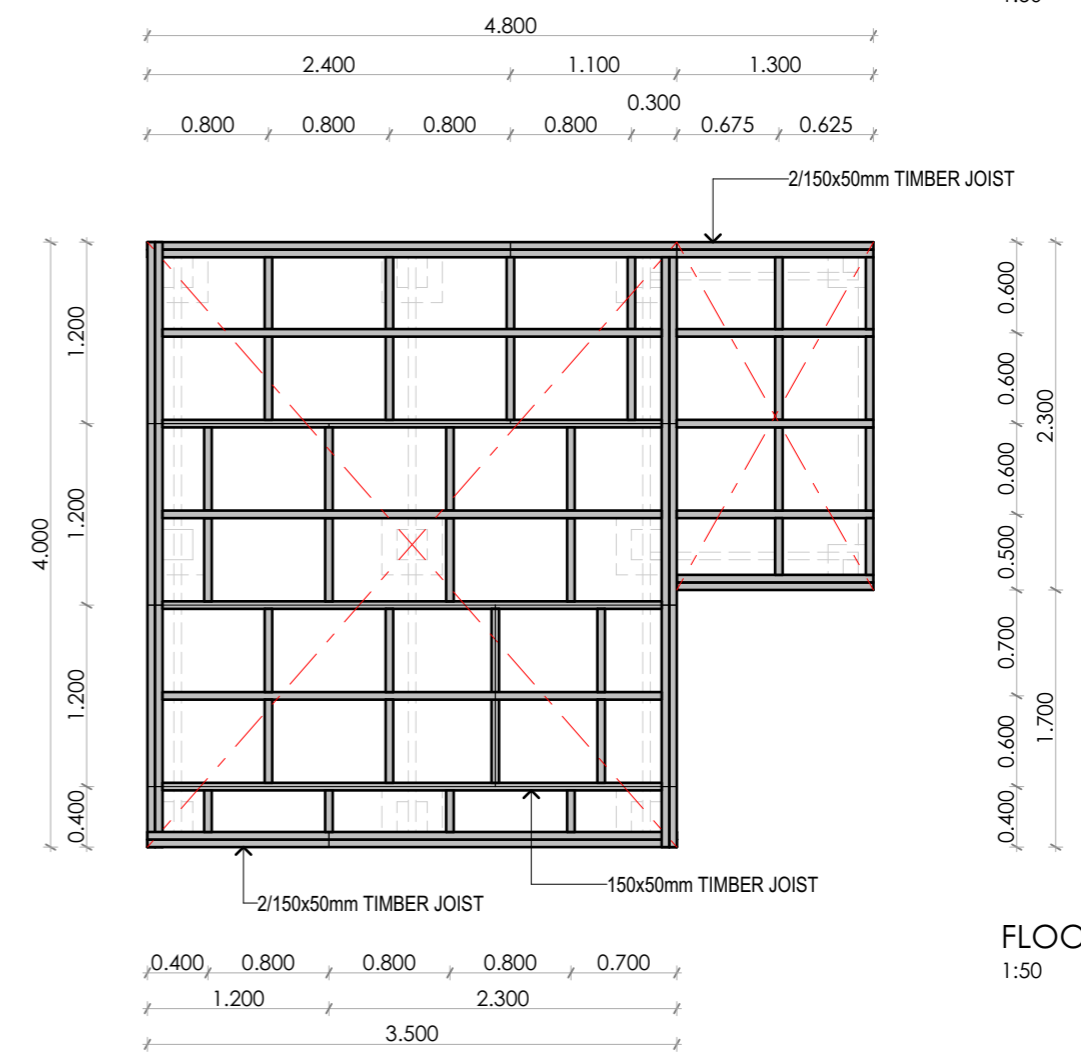
**BEARER PLAN**  
1:50



**PF1 - DETAIL**  
1:15



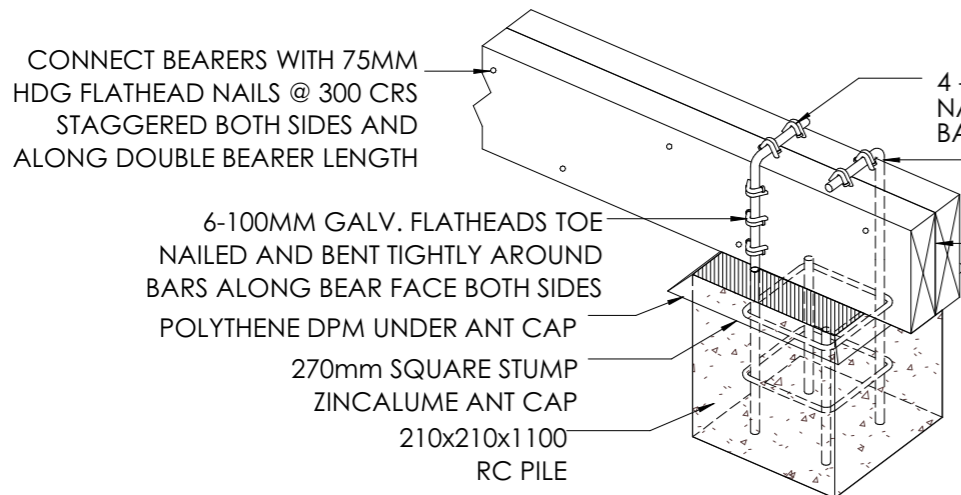
**PF2 - DETAIL**  
1:15



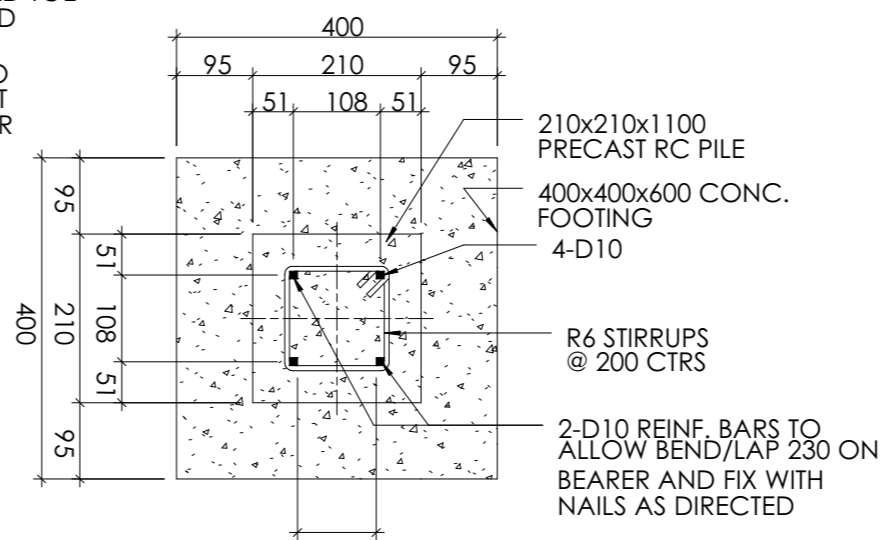
**FLOOR JOIST PLAN**  
1:50

DO NOT SCALE OFF THIS DRAWING  
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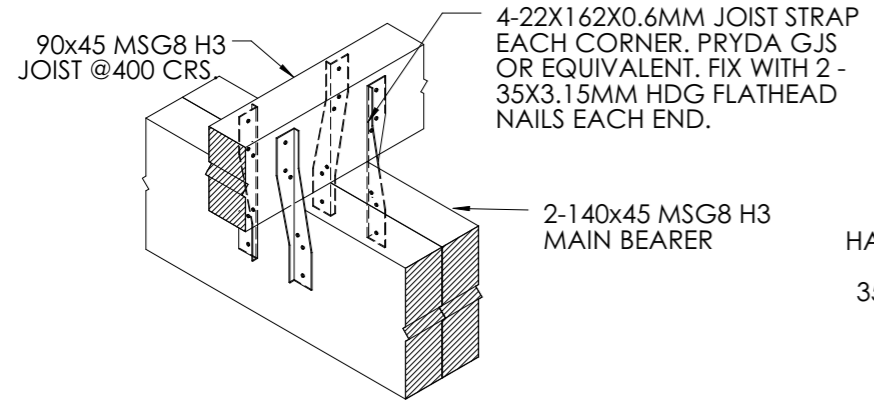
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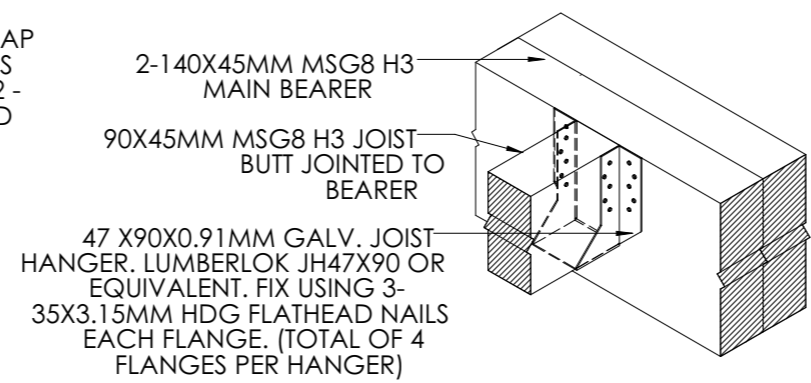
**TYP. BEARER TO PILE DETAIL**



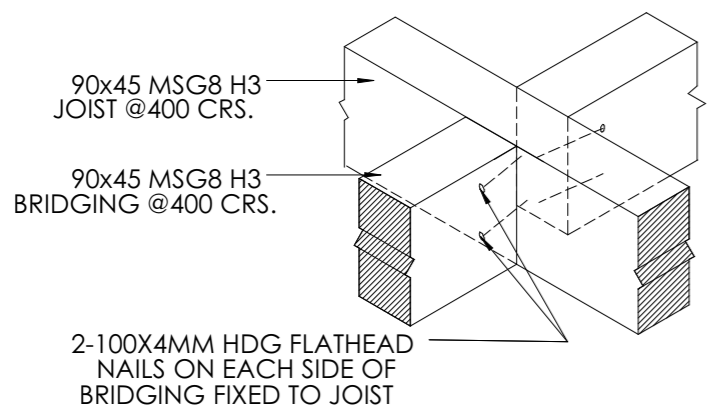
**PLAN RC PILE**  
SCALE 1 : 10  
90MM MIN. CLEAR SPACE



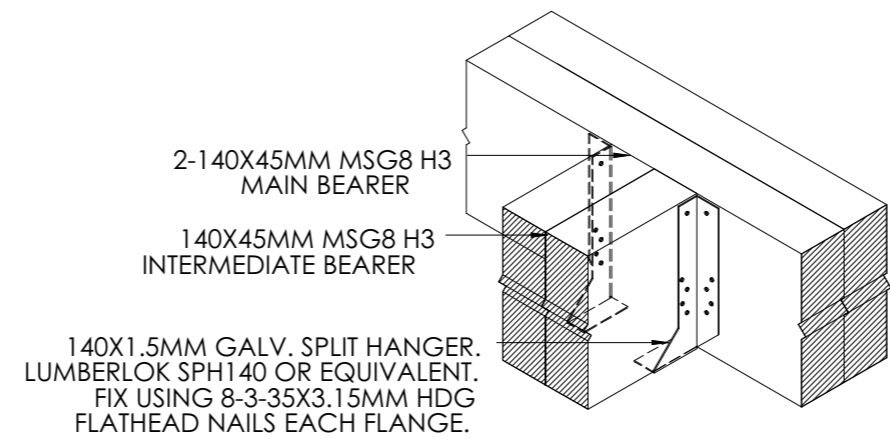
**TYP. JOIST - BEARER DETAIL**  
NTS



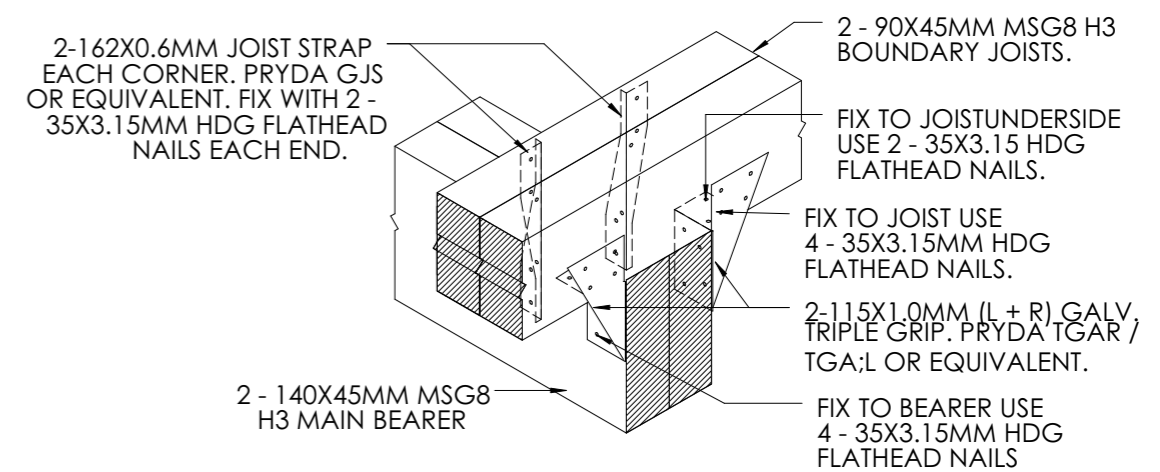
**TYP. BEARER JUNCTION DETAIL**  
NTS



**BRIDGING BUTT JOINT**  
SCALE 1 : 5



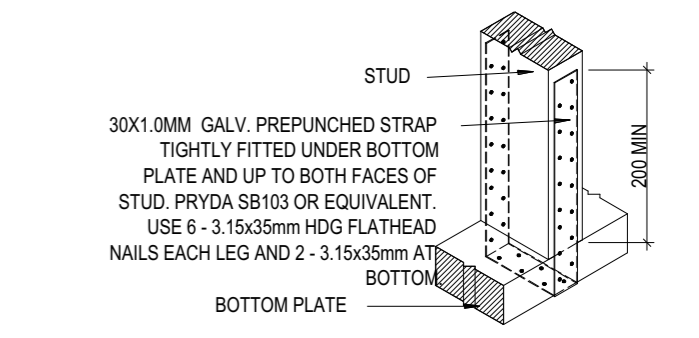
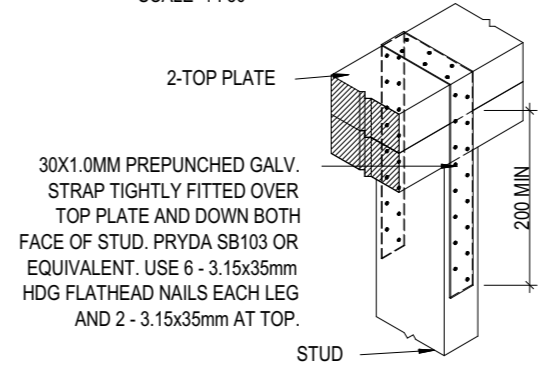
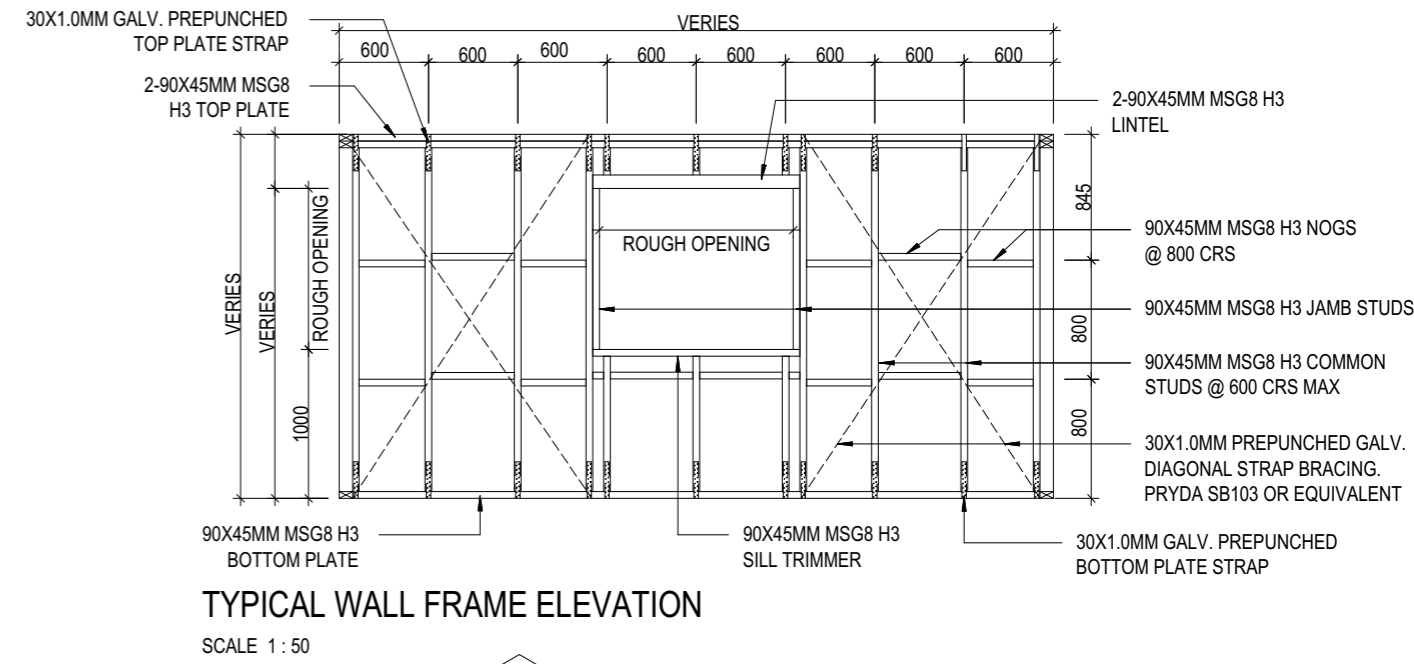
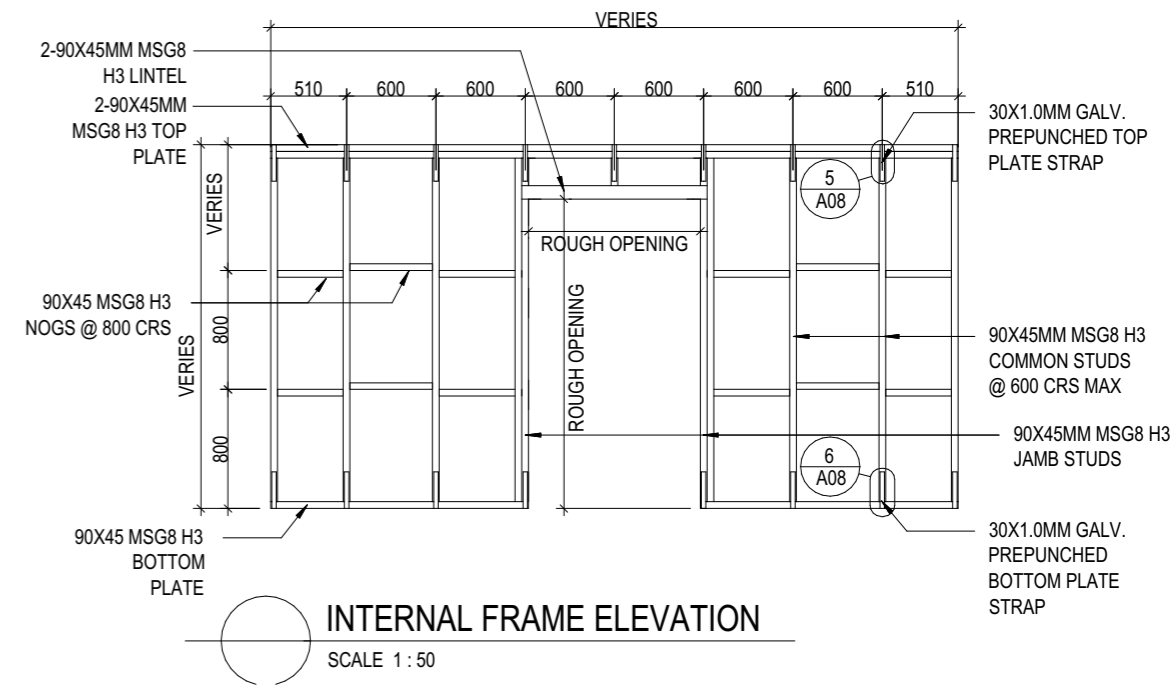
**DOUBLE BEARER JUNCTION**  
NTS



**TYP. BOUNDARY JOIST FIXING**  
NTS

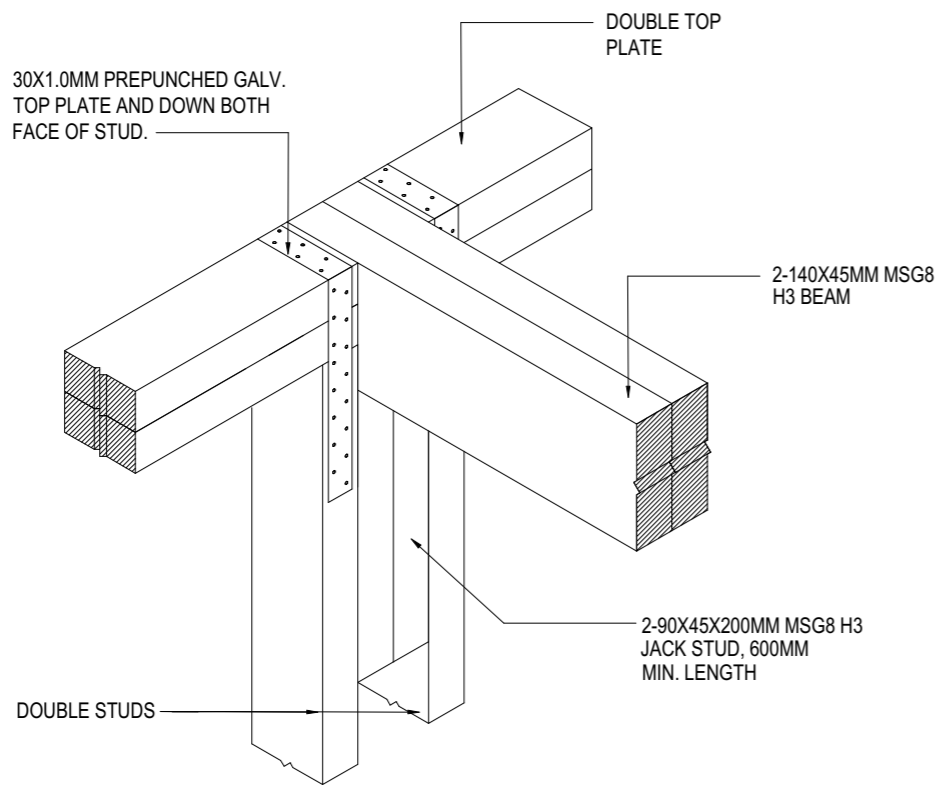
DO NOT SCALE OFF THIS DRAWING  
All dimensions should be checked on site prior to construction.

	PROJECT	EXTENSION WORKS FOR THE PANGAI, HA'APAI COURT HOUSE	TITLE	FLOORING DETAILS	DRAWING NUMBER	REV.
	LOCATION	PANGAI, HA'APAI	DRAWN BY	AMK	A.10	
	CLIENT	FAMILIES FREE OF VIOLENCE (FFOV)	CHECKED BY	MK GROUP Tonga		
			DATE	08/12/2025		
			DRAWING STATUS	FOR APPROVAL		

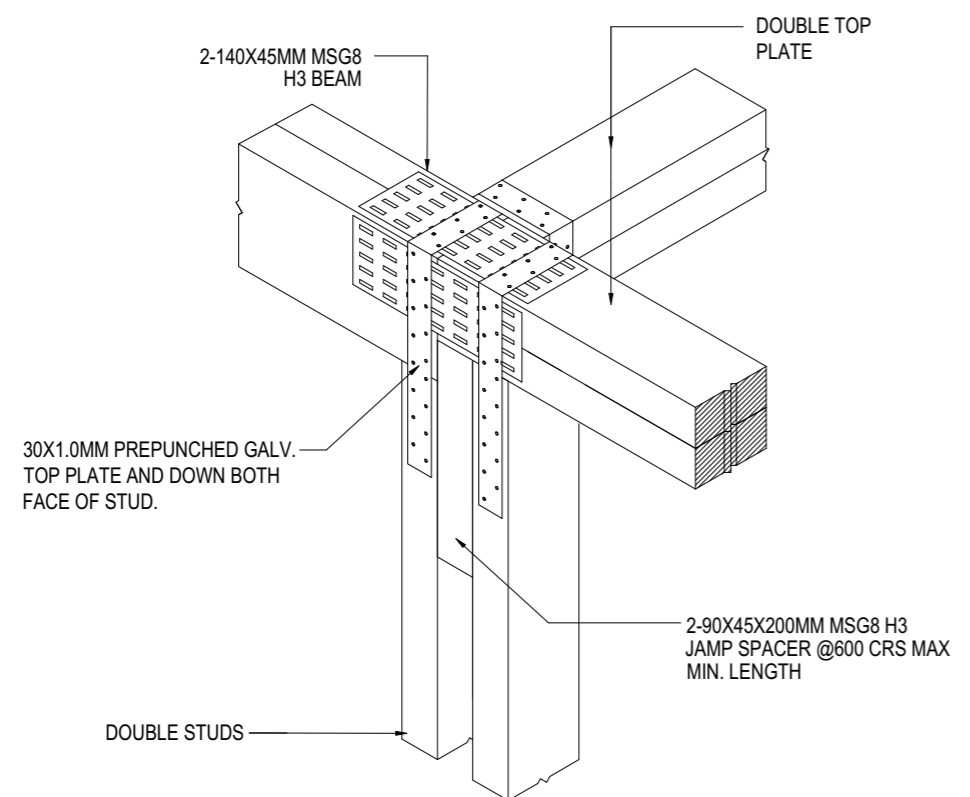


	PROJECT	EXTENSION WORKS FOR THE PANGAI, HA'APAI COURT HOUSE	TITLE	WALL DETAILS 01 OF 02	DRAWING NUMBER	REV.
	LOCATION	PANGAI, HA'APAI	DRAWN BY	AMK	A.11	
	CLIENT	FAMILIES FREE OF VIOLENCE (FFOV)	CHECKED BY	MK GROUP Tonga		
			DATE	08/12/2025		
			DRAWING STATUS	FOR APPROVAL		

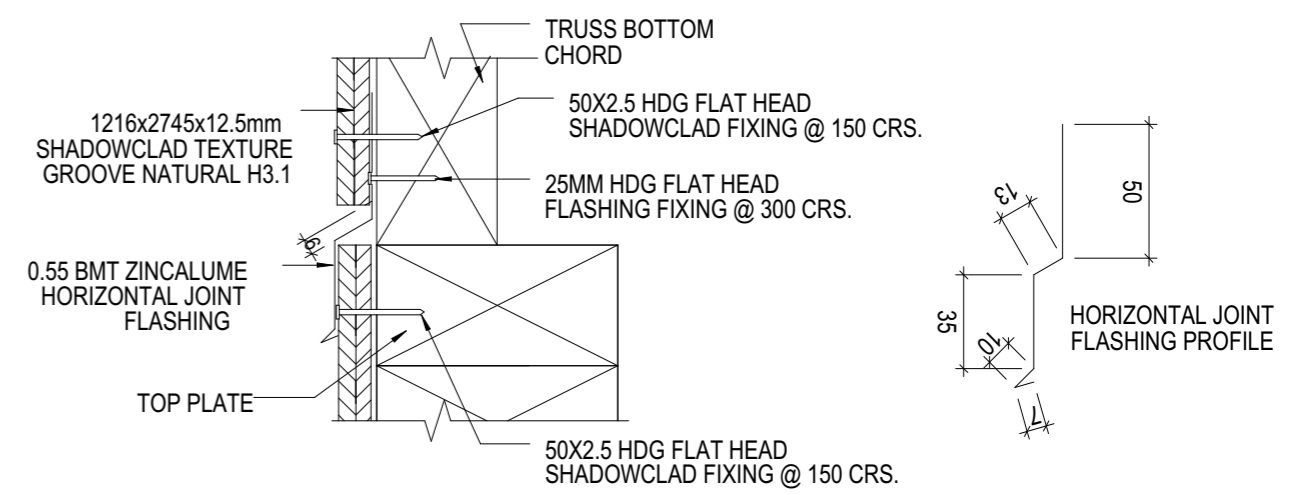
DO NOT SCALE OFF THIS DRAWING  
All dimensions should be checked on site prior to construction.



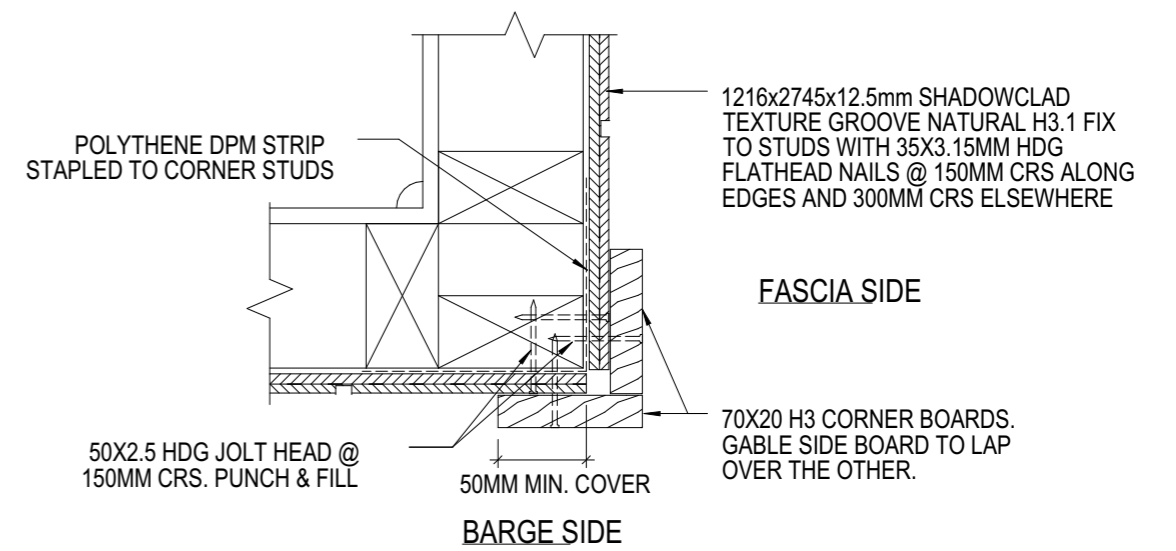
**D4** TYP. BEAM - TOP PLATE DETAIL  
A04 NTS



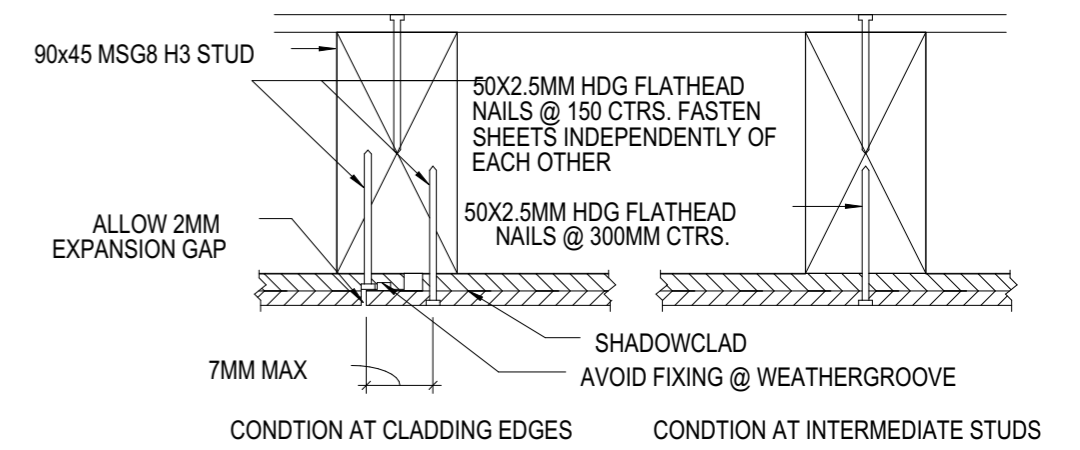
**D5** TYP. BEAM - STUDS DETAIL  
A04 NTS



**TYP. HORIZONTAL JOINT FLASHING**  
SCALE 1 : 3



**TYP. CORNER BOARD DETAIL**  
SCALE 1 : 5

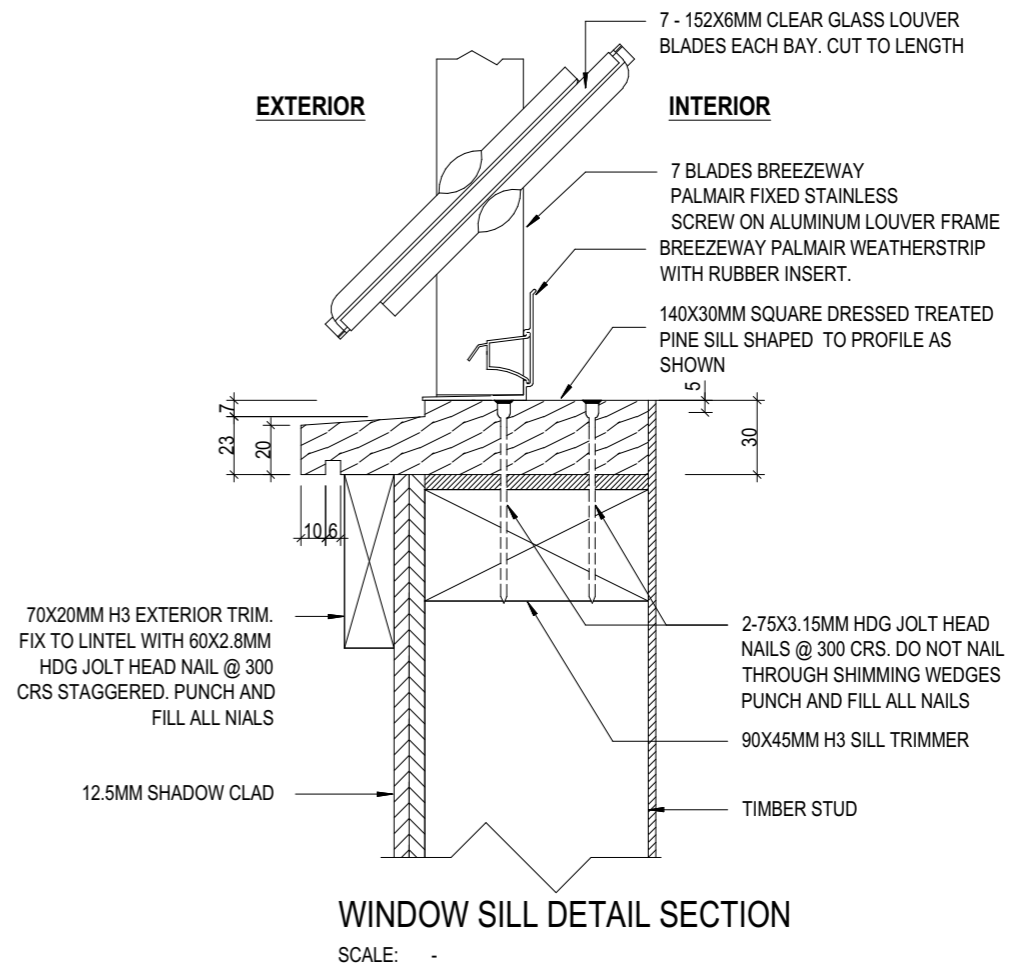
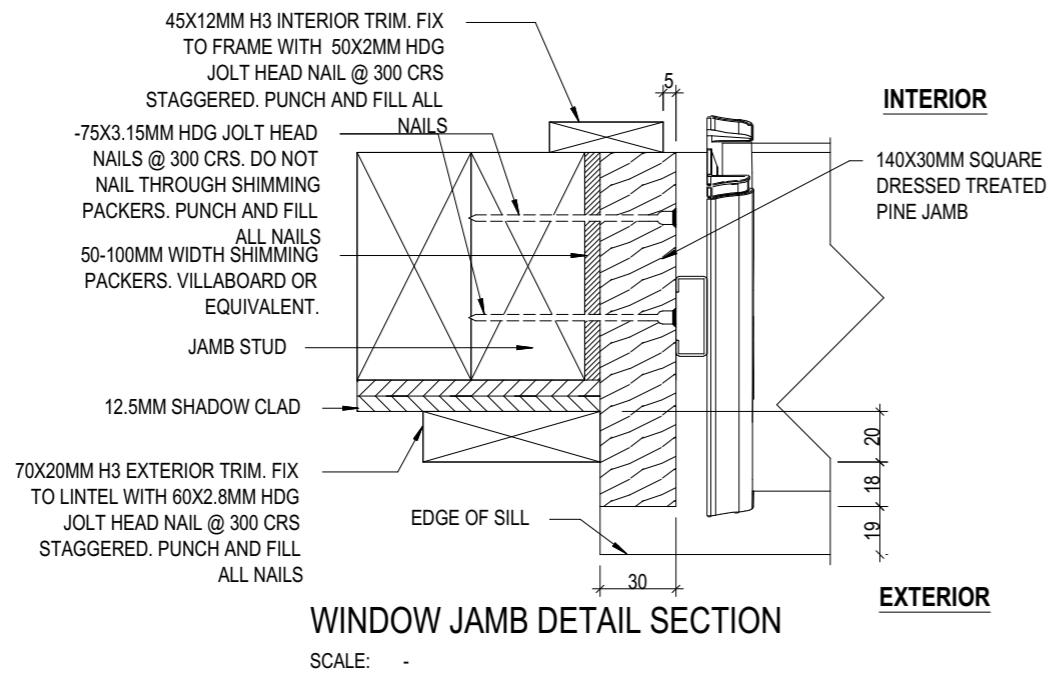
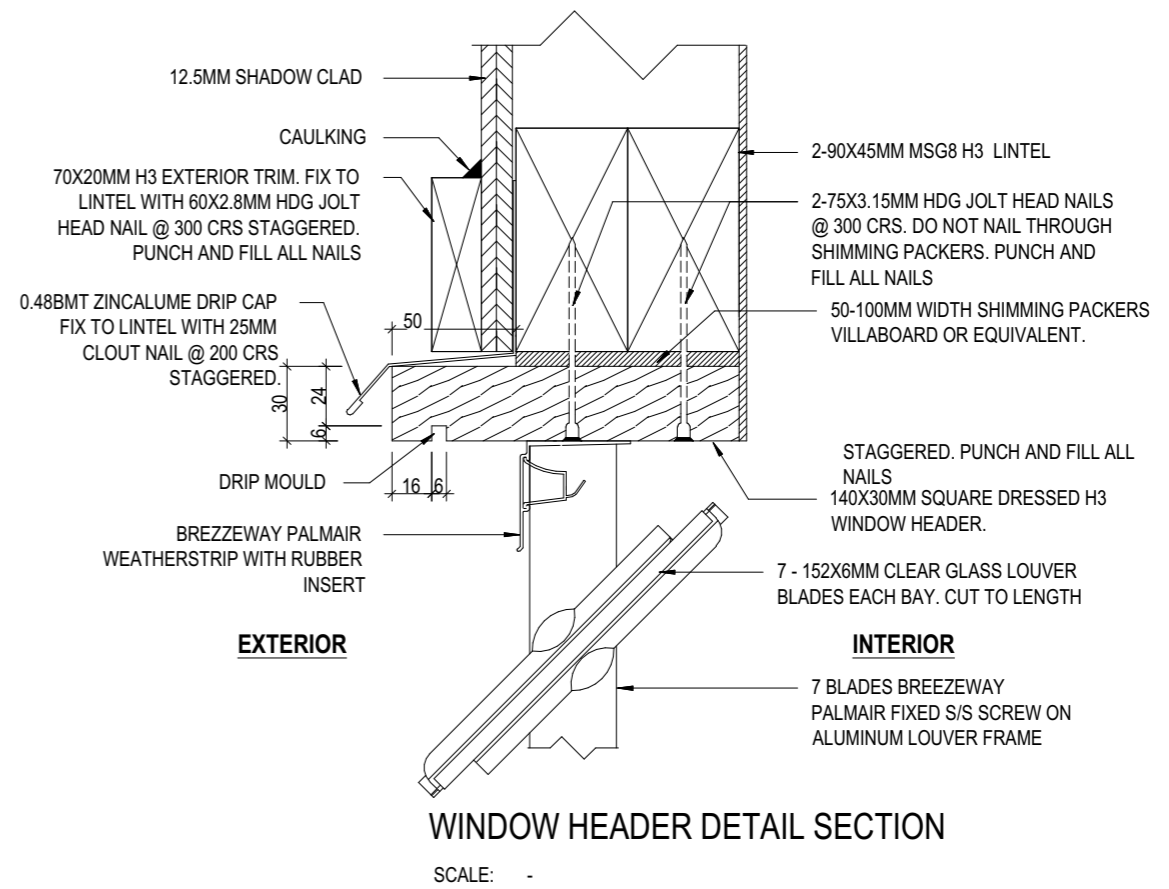


**TYP. VERTICAL JOINT DETAIL**  
SCALE 1 : 3

	PROJECT	EXTENSION WORKS FOR THE PANGAI, HA'APAI COURT HOUSE	TITLE	WALL DETAILS 02 OF 02	DRAWING NUMBER	REV.
	LOCATION	PANGAI, HA'APAI	DRAWN BY	AMK	A.12	
	CLIENT	FAMILIES FREE OF VIOLENCE (FFOV)	CHECKED BY	MK GROUP Tonga		
			DATE	08/12/2025		
			DRAWING STATUS	FOR APPROVAL		

DO NOT SCALE OFF THIS DRAWING  
All dimensions should be checked on site prior to construction.

Window List				
Window Name	Cadimage Window	Cadimage Window	Cadimage Window	Cadimage Window
Element ID	W3	W3	W4	W4
Quantity	1	2	1	1
From Room Number	<Undefined>	<Undefined>	<Undefined>	<Undefined>
W x H Size	1.200x1.200	1.200x1.200	0.800x1.000	1.300x1.000
Orientation	L	R	R	L
Window sill height	0.800	0.800	1.000	1.000
Window head height	2.000	2.000	2.000	2.000
2D Symbol				
3D Back View				



DO NOT SCALE OFF THIS DRAWING  
All dimensions should be checked on site prior to construction.

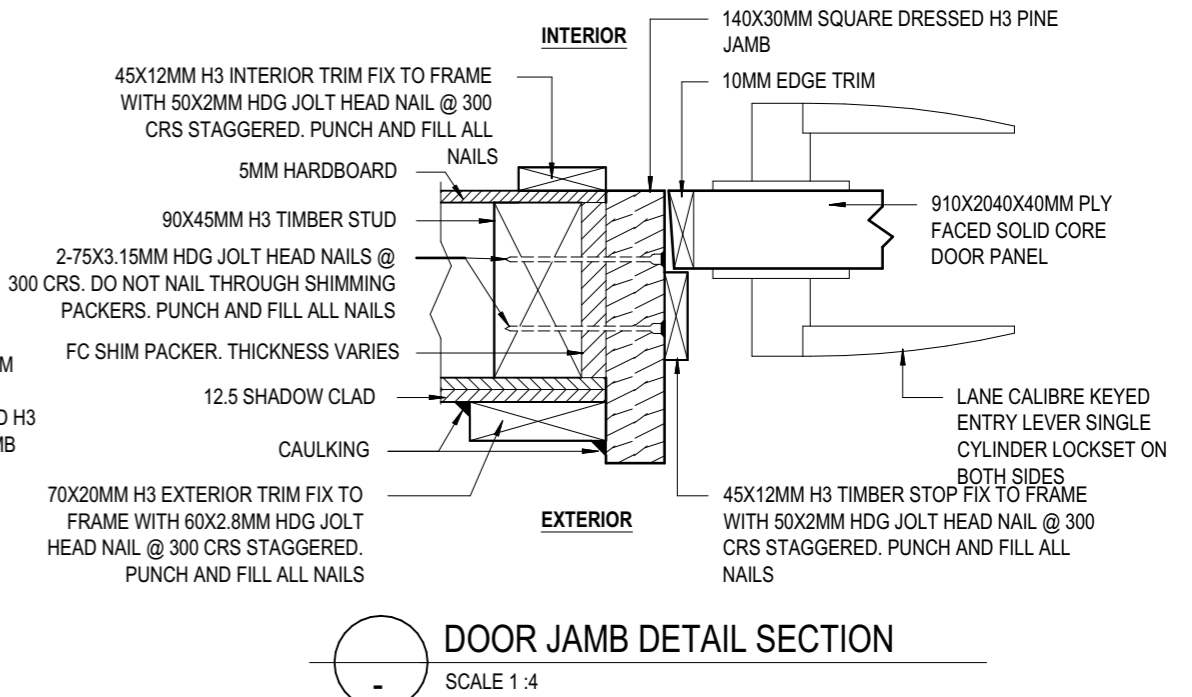
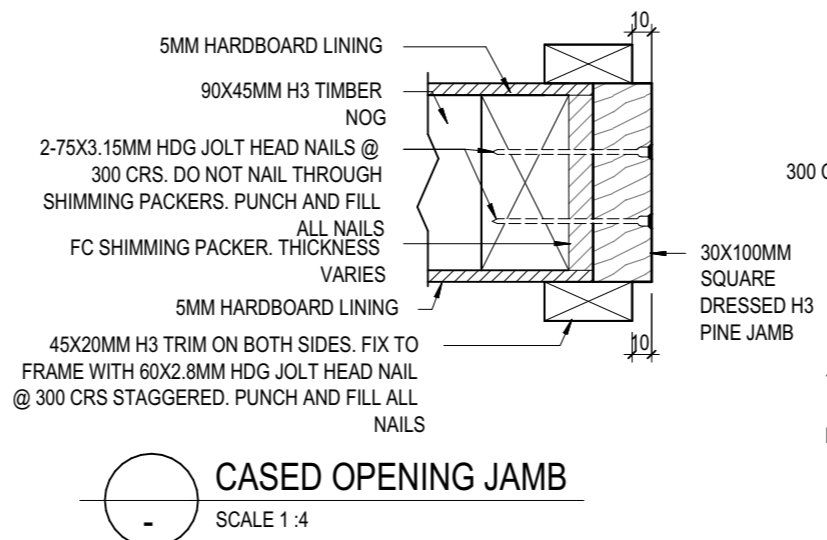
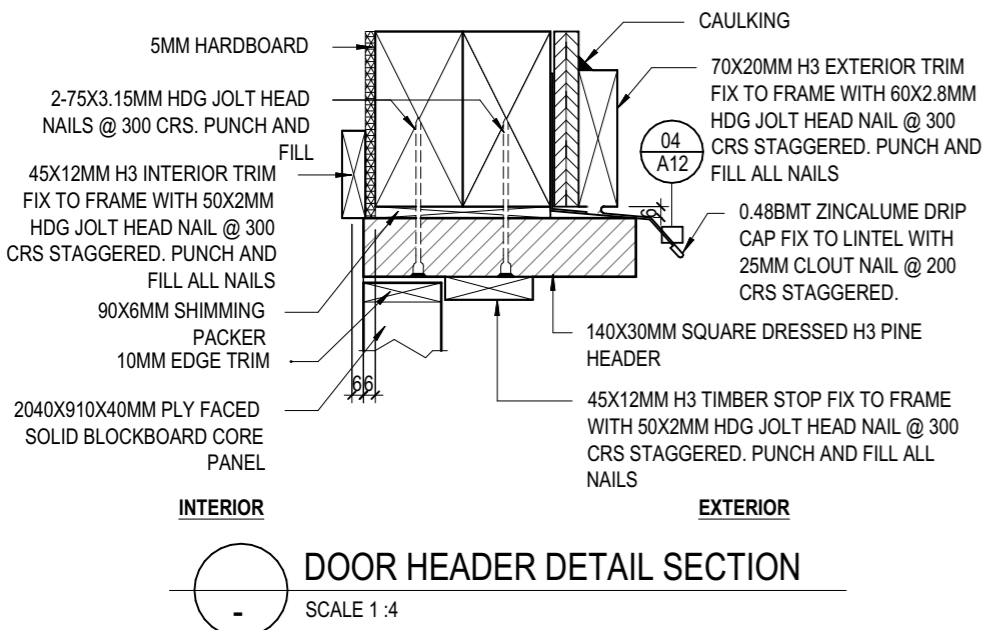
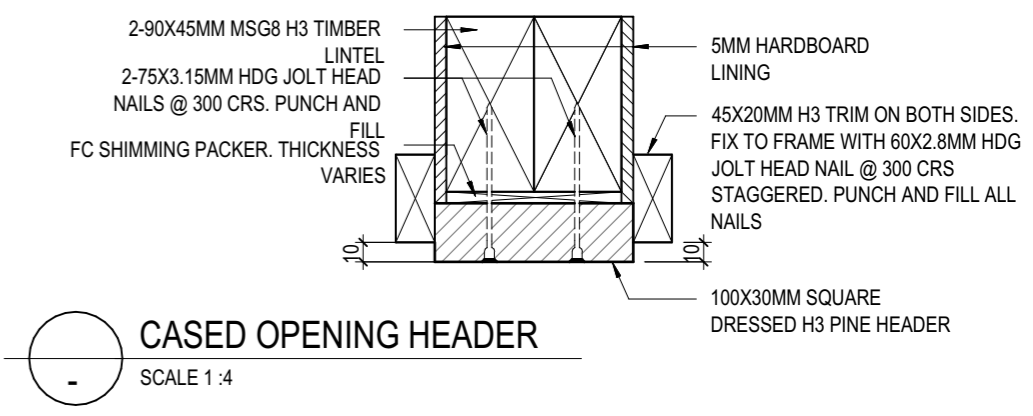
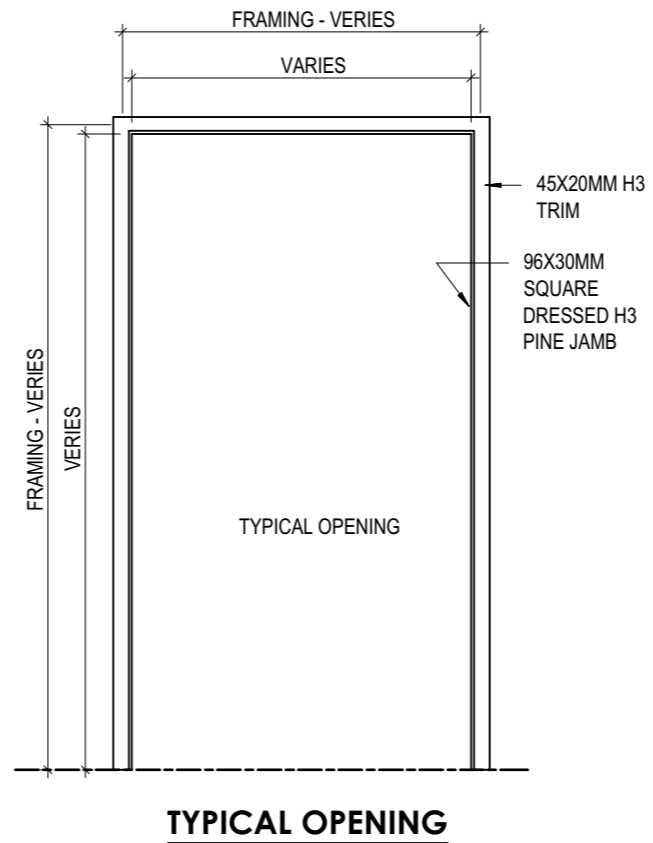


PROJECT EXTENSION WORKS FOR THE PANGAI, HA'APAI COURT HOUSE  
LOCATION PANGAI, HA'APAI  
CLIENT FAMILIES FREE OF VIOLENCE (FFOV)

TITLE WINDOW SCHEDULES  
DRAWN BY AMK  
CHECKED BY MK GROUP Tonga  
DATE 08/12/2025  
DRAWING STATUS FOR APPROVAL

DRAWING NUMBER  
REV.  
A.13

Door List				
Door Name	Door 25	Door 25	Door 25	Door 25
Element ID	D8	D8	D8	D8
Quantity	1	1	1	2
Zone Number				
W x H Size	0.900x2.000	1.000x2.000	1.100x2.000	0.900x2.000
Orientation	L	L	L	R
Door sill height	0.000	0.000	0.000	0.000
Door head height	2.000	2.000	2.000	2.000
2D Symbol				
3D Back View				



DO NOT SCALE OFF THIS DRAWING  
All dimensions should be checked on site prior to construction.

	PROJECT	EXTENSION WORKS FOR THE PANGAI, HA'APAI COURT HOUSE	TITLE	DOOR SCHEDULES & DETAILS	DRAWING NUMBER	REV.
	LOCATION	PANGAI, HA'APAI	DRAWN BY	AMK	A.14	
	CLIENT	FAMILIES FREE OF VIOLENCE (FFOV)	CHECKED BY	MK GROUP Tonga		
			DATE	08/12/2025		
			DRAWING STATUS	FOR APPROVAL		

**ELECTRICAL SERVICE NOTES**

**LIGHTING NOTE:**

1. Supply and install all fixtures fittings necessary to complete the intent of this project.
2. The electrical contractor shall allow to supply and install cabling and isolator to all plant nominated installation by other trades.
3. All lighting plug base shall be fixed where possible. Switches to be mounted as per the architects drawing as to match as per existing.
4. Supply and install into position all lighting fittings complete with connecting leads, lamps, diffusers and suspension gear.
5. The complete system shall comply with the requirements of AS2293, AS2676 and AS3001 as applicable.

**CONDUITS AND FITTINGS - GENERAL**

1. Conduits and fittings shall comply with AS2052 and AS2053. Separate conduits shall be used for light, power and each specified system.
2. All chase in wall conduits shall be install in workmanlike manner parallel to walls, floors and ceilings as applicable but all conduit cast into concrete pours shall be installed to the most suitable direct route.
3. Light duty rigid PVC conduit maybe used in all areas other than plant areas and exposed external location.
4. Conduits shall not be less than 19mm diameter.
5. Chase in wall conduits of size up to 25mm diameter shall be fixed within its termination onto an enclosure.
6. Non metallic conduit shall be jointed using the manufacture's recommended adhesive.
7. Chase in wall non mettalic conduits shall terminated in approved junction.
8. Conduit saddles shall be spaced a maximum if 1200mm apart for mettalic conduit or 1000mm apart from non mettalic conduit, in areas subject to high ambient temperatures or other severe duty the saddle spacing for non mettalic conduit shall be reduced to 500mm.
9. Where 2 or more conduits are run in parallel they may be grouped.
10. All conduits laid in plaster and in wall chases shall be firmly fixed in position to prevent movement and/or vibration.

**ACCESSORIES, OUTLETS, AND APPLIANCES**

1. Supply and install all accessories, outlets, appliances and appliance connections complete with required fixings and fastenings.
2. Accessory flush plates shall be of high impact polycarbonate construction.
3. Protected and/or weatherproof accessories shall be housed in non-corroding polycarbonate enclosures.
4. GPO's shall be provided with double pole switches incorporated which are active in the neutral and active conductors.
5. GPO's where shown on the drawing shall be protected by earth leakage circuit breakers with a rated tripping current not exceeding 300mA.
6. Multi switch positions shall be arranged similar in plan to the lighting points controlled.

**EARTHING**

1. Supply and install earthing system for the new extension construction including all electrodes, cabling, clamps, test links an all associated accessories and equipment in accordance with AS3000.
2. The test shall comprise thorough inspection of the entire installation and the operational and performance test to confirm compliance with the specification.
3. An earth conductors shall be installed with respective cables where PVC/PVC cabling or PVC building wire is used.
4. Lighting fittings, socked outlets and fixed wiring to appliances shall be earthed by means of the earth conductor which forms part circuit cabling.
5. A separate earthing conductors shall be used for each circuit.
6. Earthing conuctors shall be run back to the earth bar within the switchboard from where the supply originated.

**POSITIONING OF OUTLETS, FIXINGS AND LABELING**

1. The layout of equipment shown on the drawing is diagramatic only, and exact position shall be determined as nominated by the project manager. Outlets shall be spaced accurately and symmetrically within rooms and areas.
2. All switches, fuses, relays, terminal strips, circuit breakers and compartments shall be comprehensively labeled to clearly indicate their function.
3. Circuit breakers label shall include base rating and protection setting.

**RETICULATION, DISTRIBUTION AND CABLING**

1. Supply, install, connect and terminate all required cabling and supply and install all cable support systems to complete the electrical reticulation and distribution system.
2. The electrical installation shall reflect the purpose of the usage of the building an it's structural construction methods.
3. PVC or PVC cables entering high intensity discharge lighting fittings shall be in 105 degree centegrade degree cable.
4. All cables shall be run consealed and installed in a workman like manner parallel to walls, floors, and ceiling as applicable.
5. Cables shall be neatly grouped together and at no point shall be cabling rest on the top side of the false ceiling. Lighting fittings or other heat producing equipment.
6. Where cabling is run in partitions and similar enclosures PVC insulated and seathed cables shall be used. Cables shall installed in areas free from protrusion of screws and similar fasteners. Remove all sharp edges and allow cable to run slack.
7. Where PVC/PVC wiring for switches and GPO's are installed in full height partition's arrangements shall be made with the builder for entry and exit of the wiring.

**DESCRIPTIONS AND EXTENT OF WORKS:**

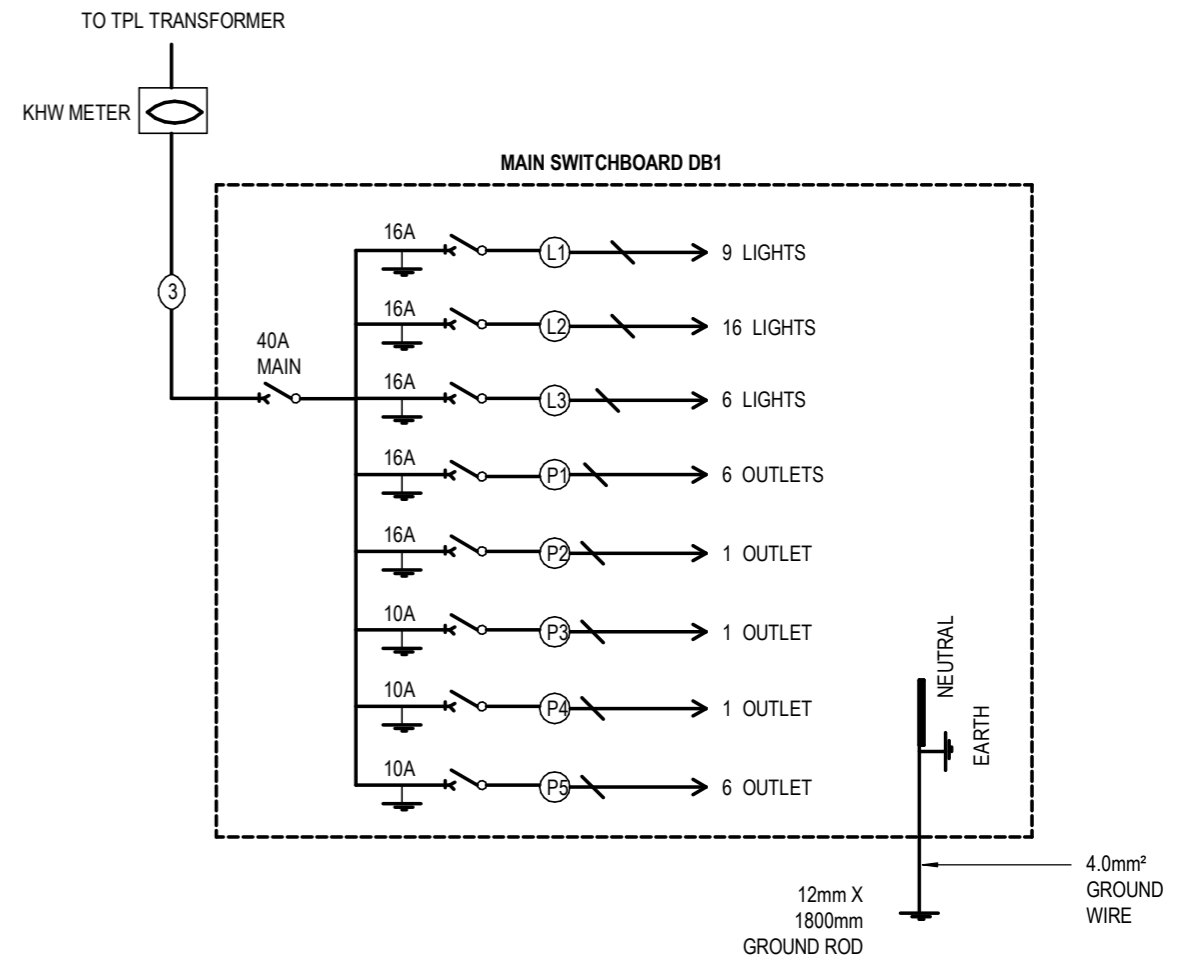
1. The scope of work comprises the supply, Installation, Testing Commisioning, Maintenance and defects liability services of materials, labour and Equipment for the complete Electrical installation.
2. The shall include but will not restricted to the following principal items:
  - a) New florescent light fittings
  - b) General purpose and special power and sub circuit wiring, power outlets accessories, A/C
  - c) Installing Electrical services where shown in diagram.
  - d) Supply and Install new lights cabling and accessories.
  - e) Supply and Install new Panel Board.
  - f) Connection to existing Mains Switchboard.
3. All drawings to be read in conjunction with the electrical specification.
4. Solid lines indicate circuit lines and broken lines indicate switch lines.
5. Switch and Outlet mounting heights, as follows:
  - light switch - same height as door handles
  - socket outlets - 300mm above floor level
  - isolators and socket outlets for fixed equipment - 1200mm above floor level.

WIRE SCHEDULES :	
1	1X2C X 1.5mm <sup>2</sup> + E TPS
2	1X2C X 2.5mm <sup>2</sup> + E TPS
3	1X2C X 10mm <sup>2</sup> TPS

**LOAD CALCULATION**

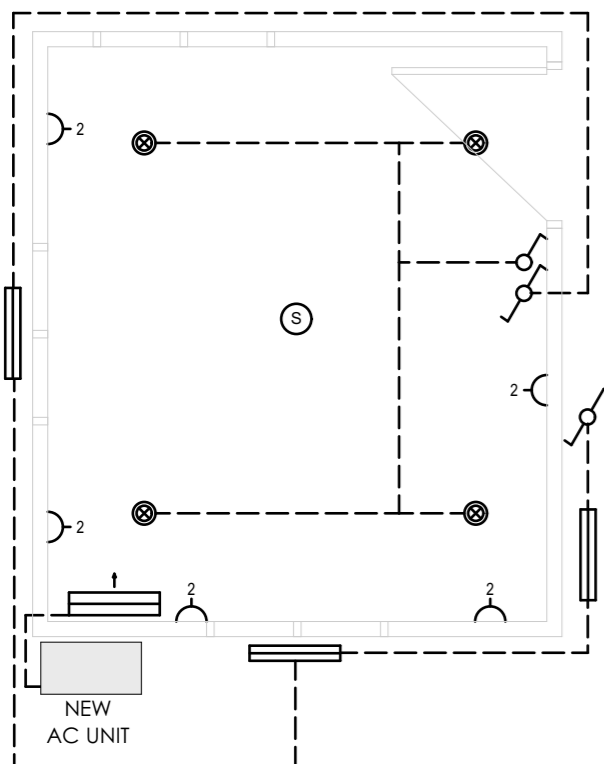
MAX DEMAND CALCULATION IN AMPS (A)	
3A	LIGHTING CIRCUIT
10A	POWER CIRCUIT
13A	TOTAL

**ONE LINE DIAGRAM**




	PROJECT	EXTENSION WORKS FOR THE PANGAI, HA'APAI COURT HOUSE	TITLE	ELECTRICAL NOTES	DRAWING NUMBER	REV.
	LOCATION	PANGAI, HA'APAI	DRAWN BY	AMK	A.15	
	CLIENT	FAMILIES FREE OF VIOLENCE (FFOV)	CHECKED BY	MK GROUP Tonga		
		DATE	08/12/2025			
			DRAWING STATUS	FOR APPROVAL		





- ⊗ CEILING F3 MOUNTED LUMINAR LIGHTS  
(BRITEX GLS LED 9W B22 DL 75W)
- ▬ WATER PROOF / F1-1x18 (1200mm) SURFACE  
MOUNTED C/W PRISMATIC K12 DIFFUSER
- ⏏ ONE WAY SWITCH
- ⏏ TWO WAY SWITCH
- ⊙ SMOKE DETECTOR
- 2 ○ DOUBLE ELECTRICAL PLUG 300mm  
FROM FFL
- ▬ AC - INTERIOR UNIT

DO NOT SCALE OFF THIS DRAWING  
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	PROJECT	EXTENSION WORKS FOR THE PANGAI, HA'APAI COURT HOUSE	TITLE	ELECTRICAL PLAN	DRAWING NUMBER	REV.
	LOCATION	PANGAI, HA'APAI	DRAWN BY	AMK	A.16	
	CLIENT	FAMILIES FREE OF VIOLENCE (FFOV)	CHECKED BY	MK GROUP Tonga		
			DATE	08/12/2025		
			DRAWING STATUS	FOR APPROVAL		