



# MINISTRY OF JUSTICE COURTS AND ADMINISTRATION

## " PROPOSED JUDGES RESIDENCE HOUSE "

  
at Salelologa, Savaii

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PROJECT TITLE:

MINISTRY OF JUSTICE COURTS  
AND ADMINISTRATION  
"PROPOSED JUDGES RESIDENCE HOUSE"  
at Salelologa, Savaii



DRAWING TITLE:

**COVER SHEET**

DESIGNED:

VeS

DRAWN:

VeS

CHECKED:

VS

SCALE:

NTS(A3)

DATE:

25th.11. 2022

DATE:

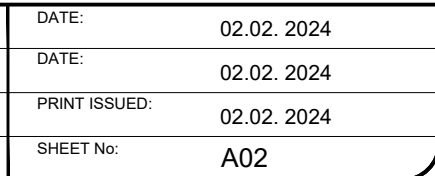
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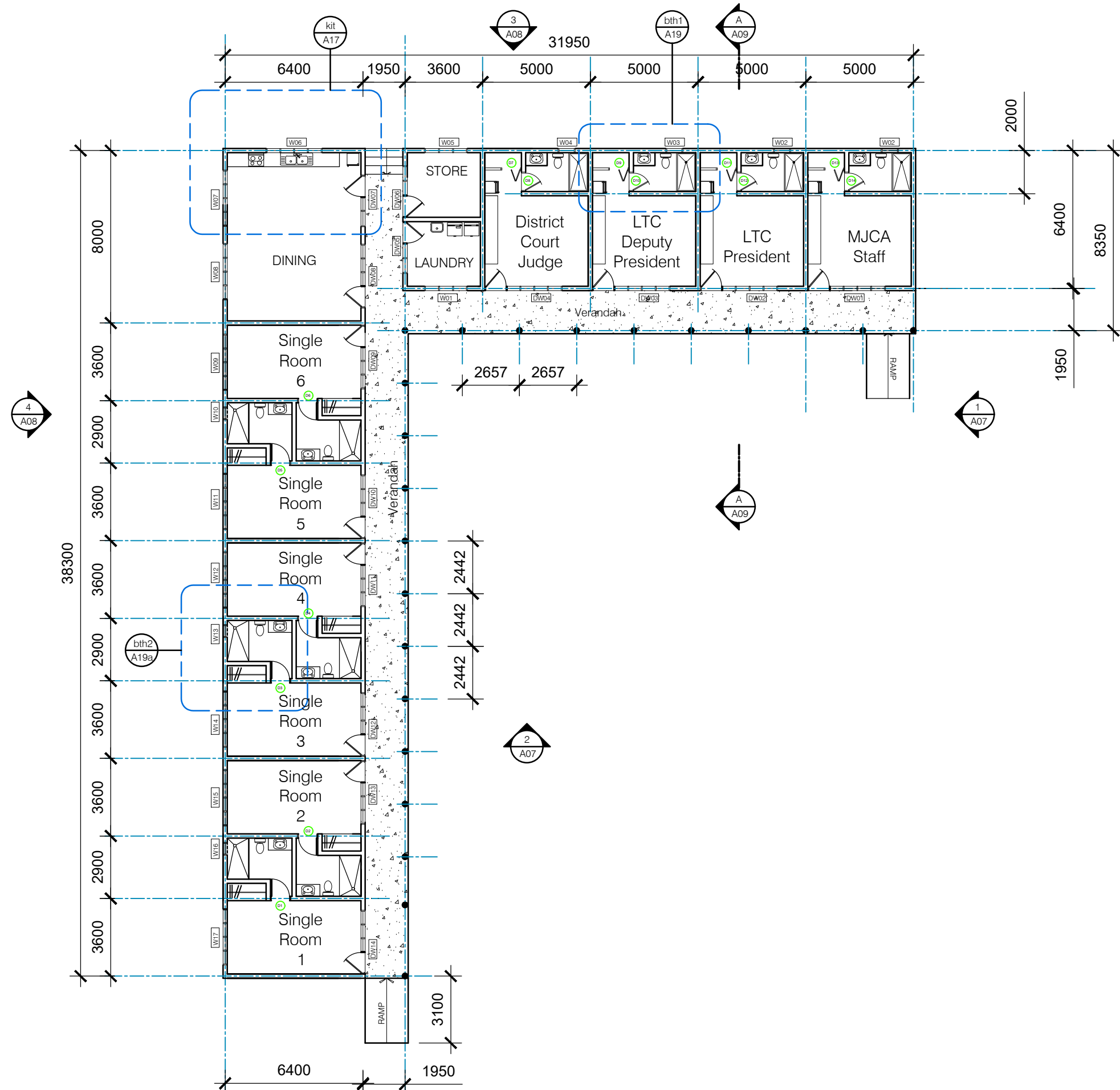
PRINT ISSUED:

19th.01. 2024

SHEET No:

A00





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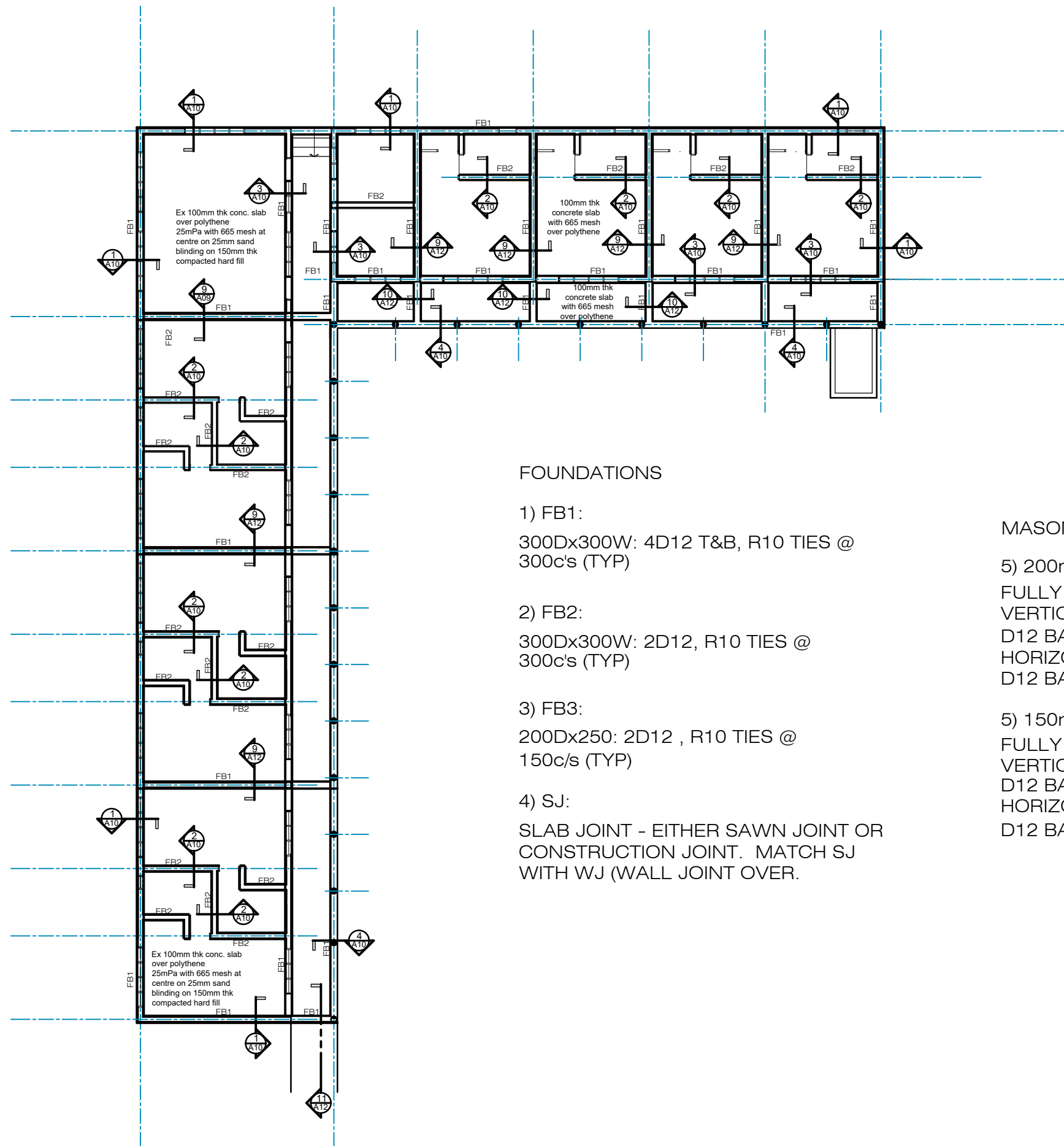
MINISTRY OF JUSTICE COURTS  
AND ADMINISTRATION  
**"PROPOSED JUDGES RESIDENCE HOUSE"**  
at Salelologa, Savaii



DRAWING TITLE:

**FLOOR LAYOUT PLAN  
SHOWING DIMENSIONS / REFERENCES**

DESIGNED:	VeS	DATE:	02.02. 2024
DRAWN:	VeS	DATE:	02.02. 2024
CHECKED:	V/S	PRINT ISSUED:	02.02. 2024
SCALE:	1 : 200(A3)	SHEET No:	A03



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**"PROPOSED JUDGES RESIDENCE HOUSE"**  
at Salelologa, Savaii



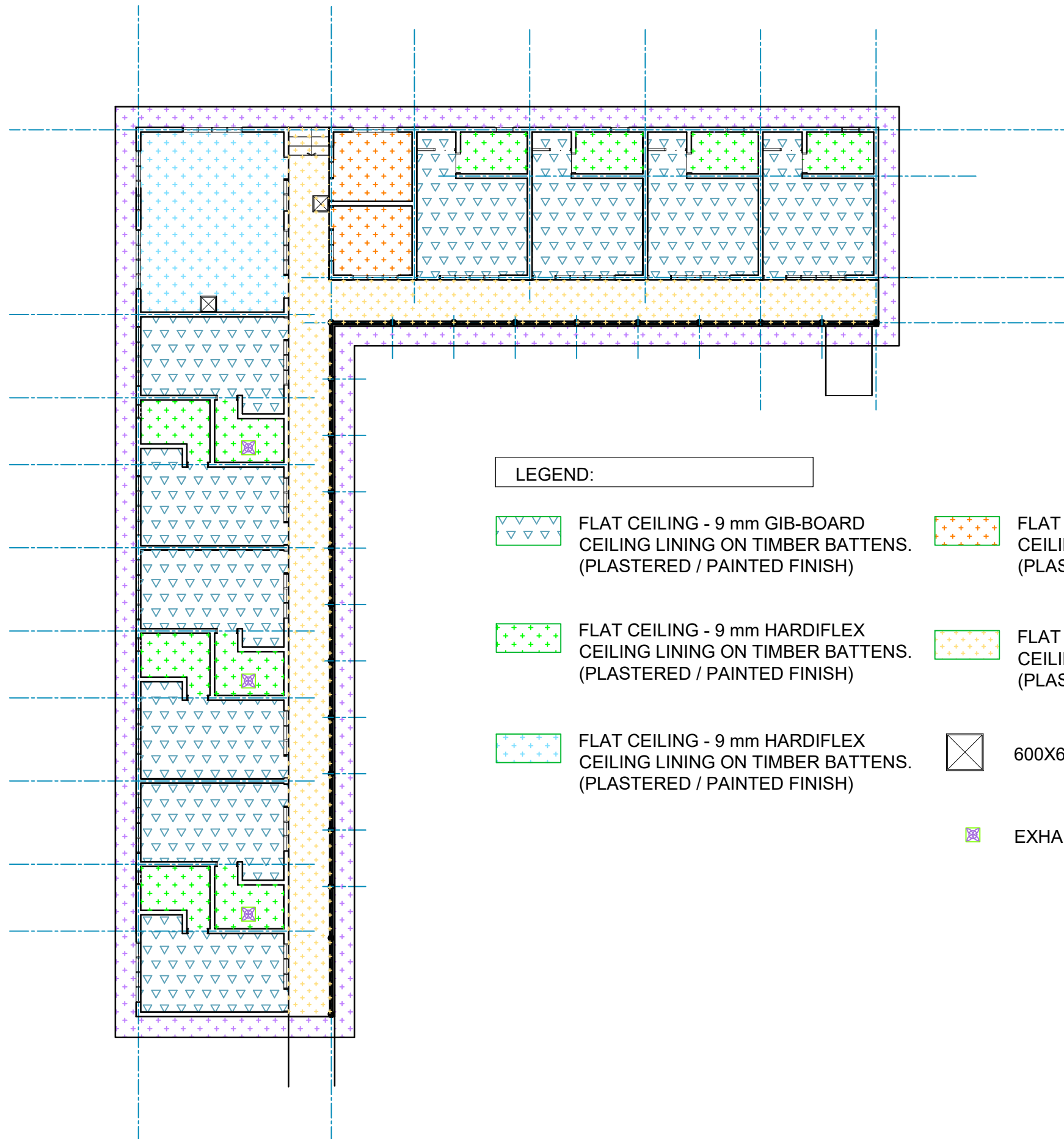
DRAWING TITLE:

**FOUNDATION LAYOUT PLAN**

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DRAWN:	VeS	DATE:	02.02. 2024
CHECKED:	V/S	PRINT ISSUED:	02.02. 2024
SCALE:	1 : 200(A3)	SHEET No:	A04

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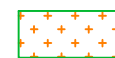




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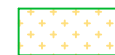
FLAT CEILING - 9 mm GIB-BOARD  
CEILING LINING ON TIMBER BATTENS.  
(PLASTERED / PAINTED FINISH)



FLAT CEILING - 9 mm HARDIFLEX  
CEILING LINING ON TIMBER BATTENS.  
(PLASTERED / PAINTED FINISH)



FLAT CEILING - 9 mm HARDIFLEX  
CEILING LINING ON TIMBER BATTENS.  
(PLASTERED / PAINTED FINISH)



FLAT CEILING - 9 mm HARDIFLEX  
CEILING LINING ON TIMBER BATTENS.  
(PLASTERED / PAINTED FINISH)



FLAT CEILING - 9 mm HARDIFLEX  
CEILING LINING ON TIMBER BATTENS.  
(PLASTERED / PAINTED FINISH)



600X600 ACCESS



EXHAUST FAN (VENTILATION)

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**"PROPOSED JUDGES RESIDENCE HOUSE"**  
at Salelologa, Savaii

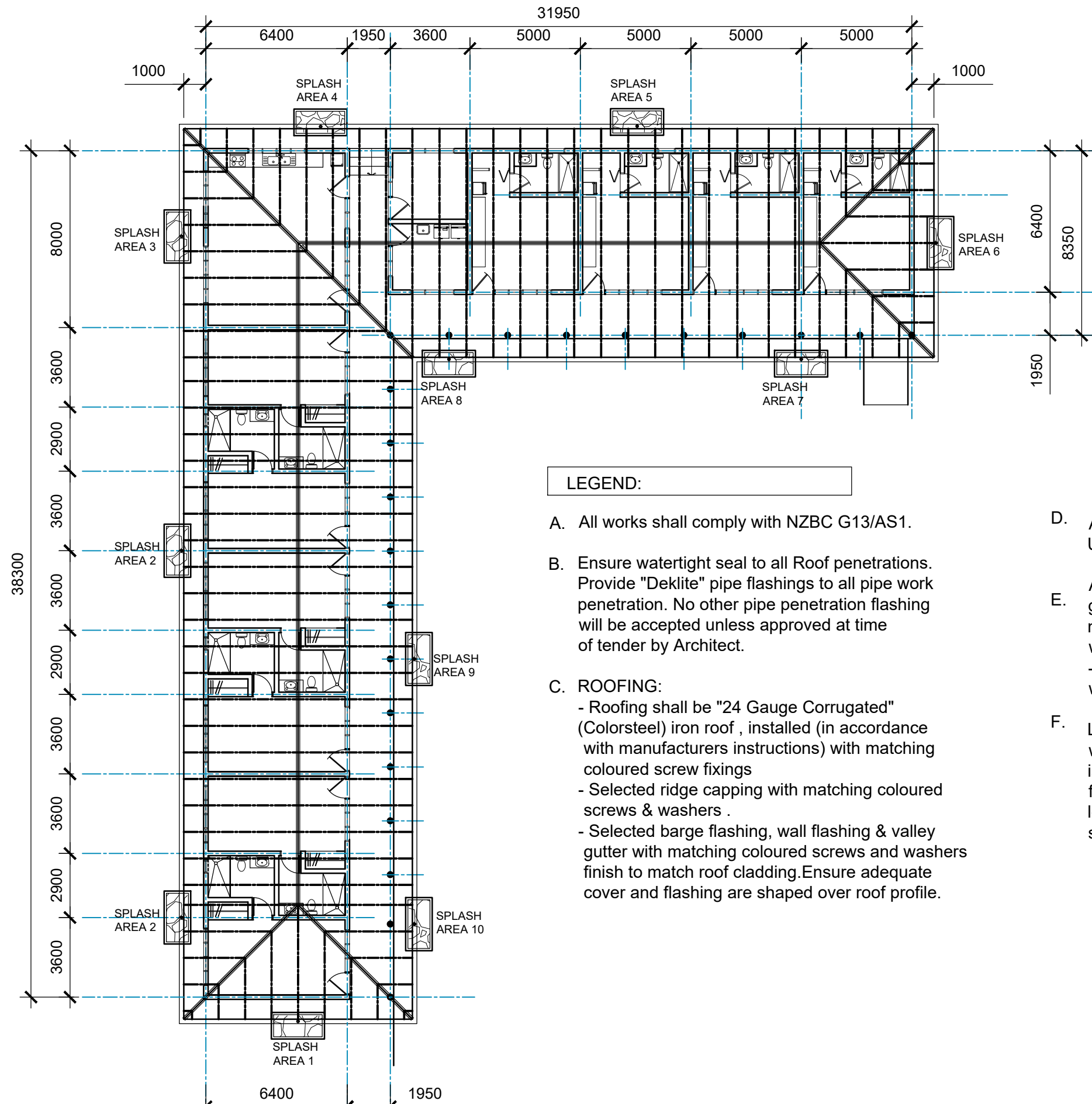


DRAWING TITLE:

**CEILING LAYOUT PLAN**

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DRAWN:	VeS	DATE:	02.02. 2024
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SCALE:	1 : 200(A3)	SHEET No:	A05

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"BHP" SCREW TYPE 17  
(14-10x64mm LONG)  
WITH CYCLONE WASHERS  
CLASS 4 CORROSION  
RESISTANCE  
(PAINTED TO SUIT  
ROOF COLOUR)

4 SCREWS PER SHEET  
INCLUDING RIDGE

ROOF SHEET FIXING  
4 SCREWS PER SHEET  
SCALE N.T.S

- LEGEND:
- A. All works shall comply with NZBC G13/AS1.
  - B. Ensure watertight seal to all Roof penetrations. Provide "Deklite" pipe flashings to all pipe work penetration. No other pipe penetration flashing will be accepted unless approved at time of tender by Architect.
  - C. ROOFING:
    - Roofing shall be "24 Gauge Corrugated" (Colorsteel) iron roof , installed (in accordance with manufacturers instructions) with matching coloured screw fixings
    - Selected ridge capping with matching coloured screws & washers .
    - Selected barge flashing, wall flashing & valley gutter with matching coloured screws and washers finish to match roof cladding.Ensure adequate cover and flashing are shaped over roof profile.

- D. All downpipes and droppers shall be new 100mm UPVC.
- E. All gutters shall be new selected roof perforated gutters(installed in strict accordance with manufacturers specifications) with brackets spaced @ 750mm max. crs. - 100mm diameter "PVC" rainwater pipe (RWP) with astrigals to be fitted @ 1500mm max. crs.
- F. Lead edge flashing are not to be used on this roof without the strict permission of the Architect as it is not compatible with this Colorsteel. If Lead flashing must be used then the lead flashing must be painted with 2 coats in strict cordance with manufacturers specifications.



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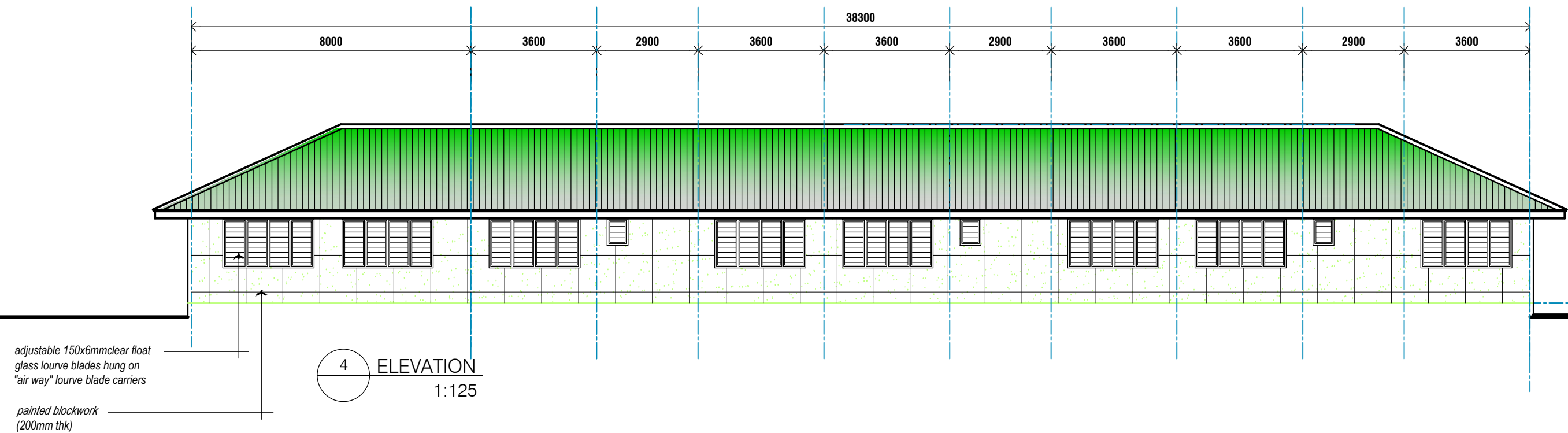
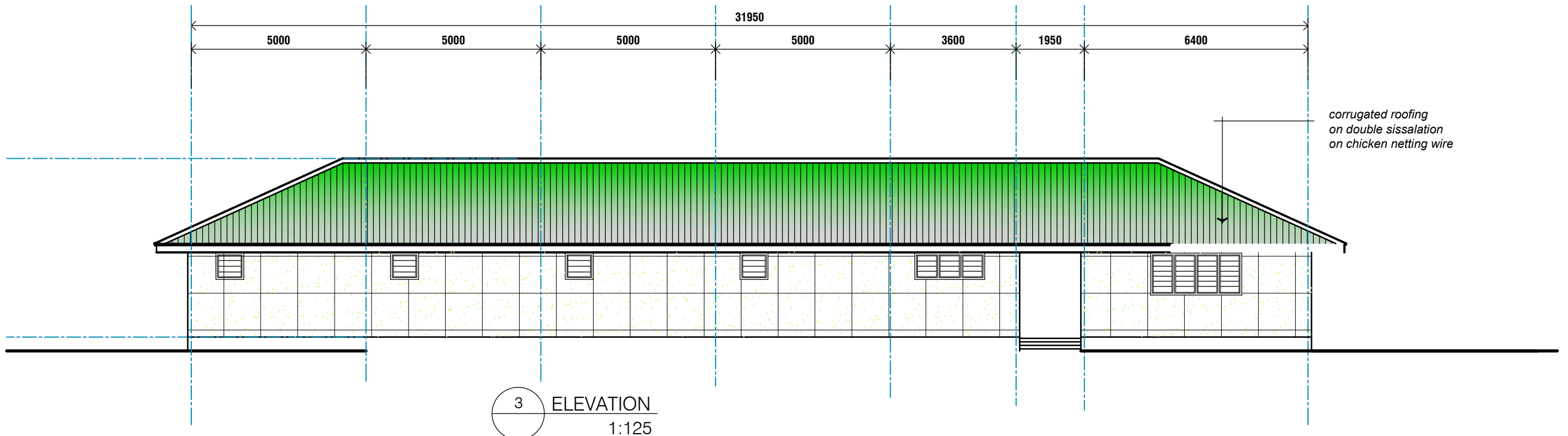


DRAWING TITLE:

**ELEVATIONS 1 & 2**

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DRAWN:	VeS	DATE:	02.02. 2024
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SCALE:	1 : 125(A3)	SHEET No:	A07

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DRAWING TITLE:

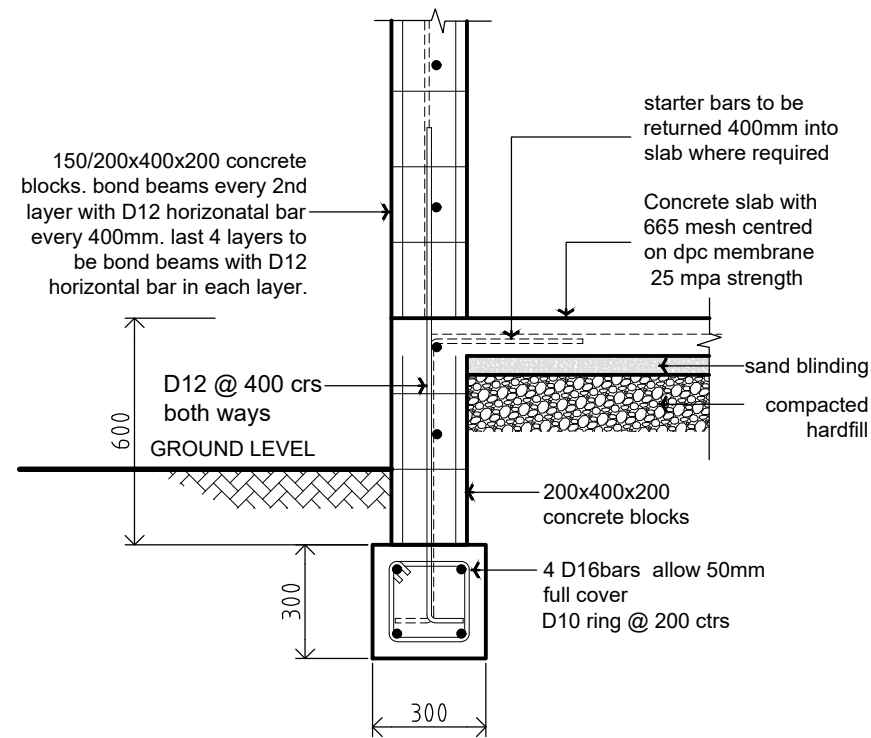
**ELEVATIONS 3 & 4**

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CHECKED:	V/S	PRINT ISSUED:	02.02. 2024
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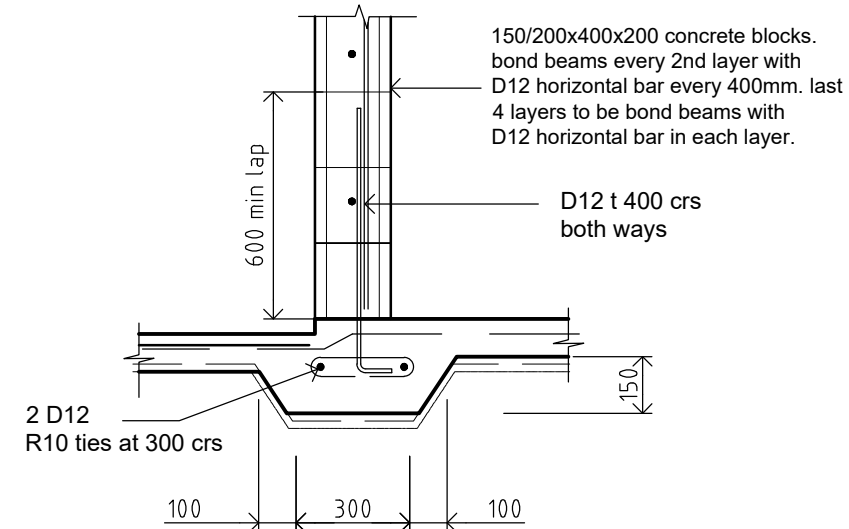
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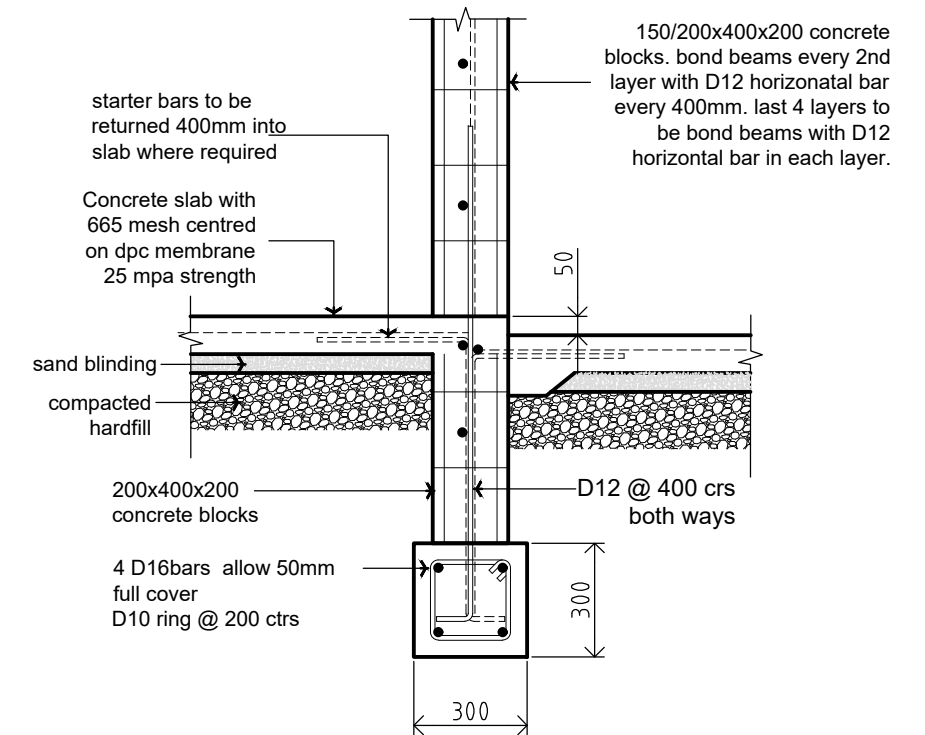




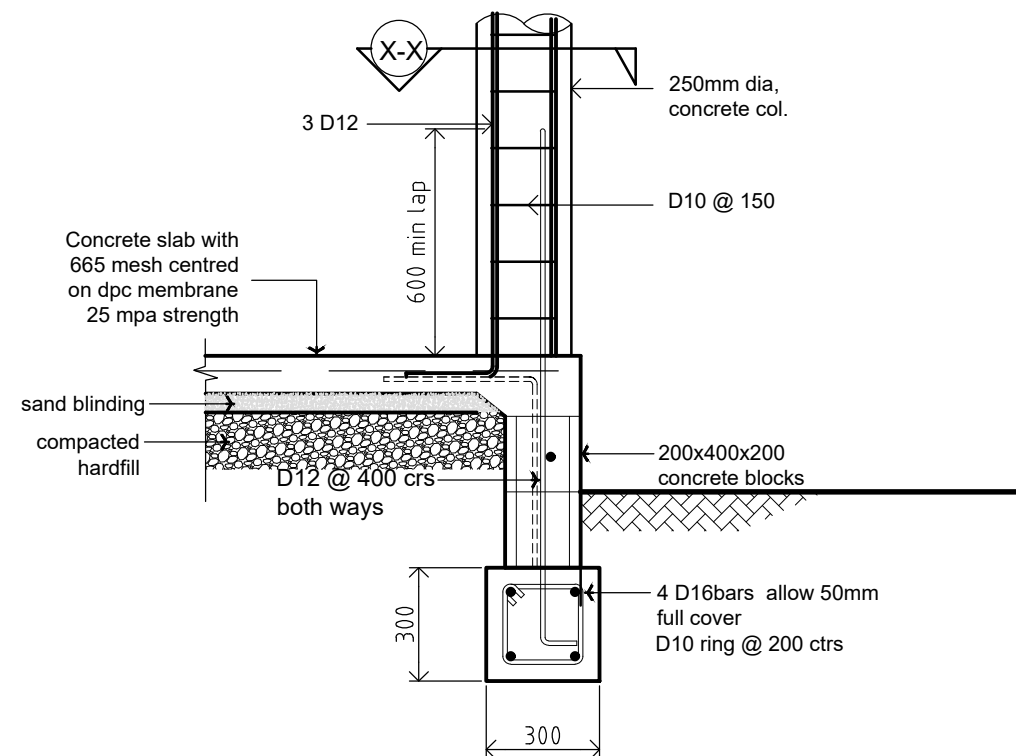
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A09 SCALE 1:20



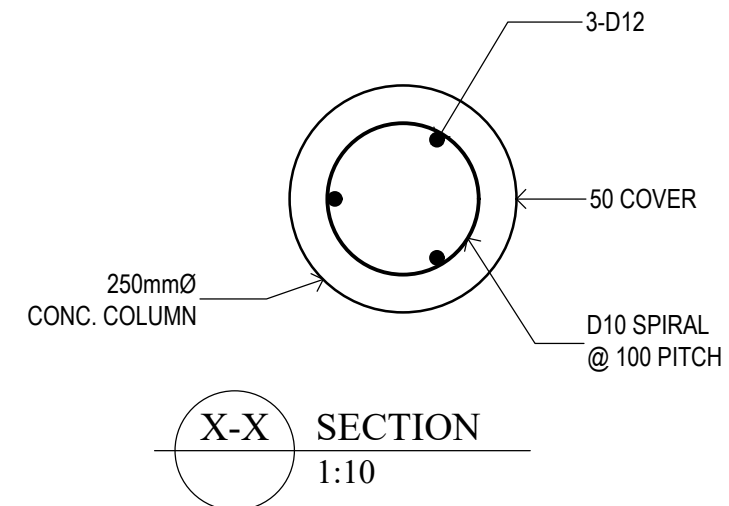
2 TYPICAL DETAIL  
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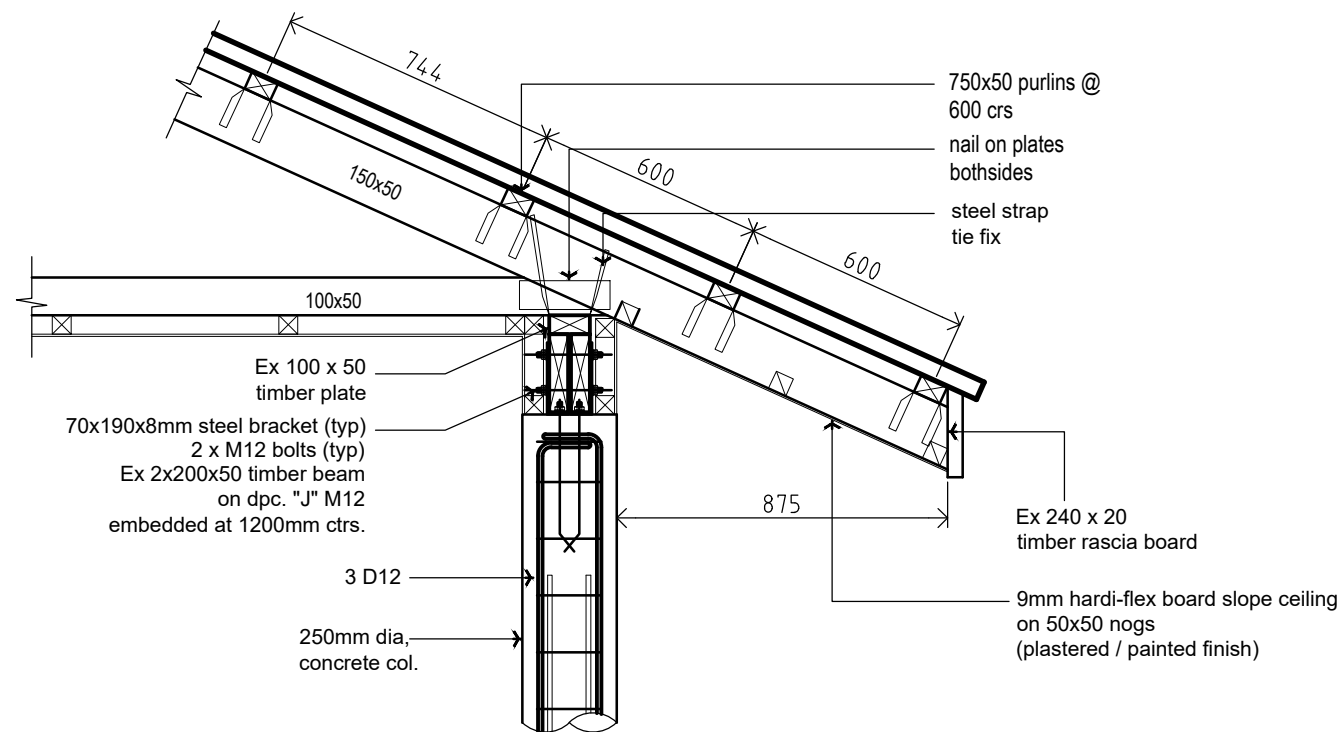


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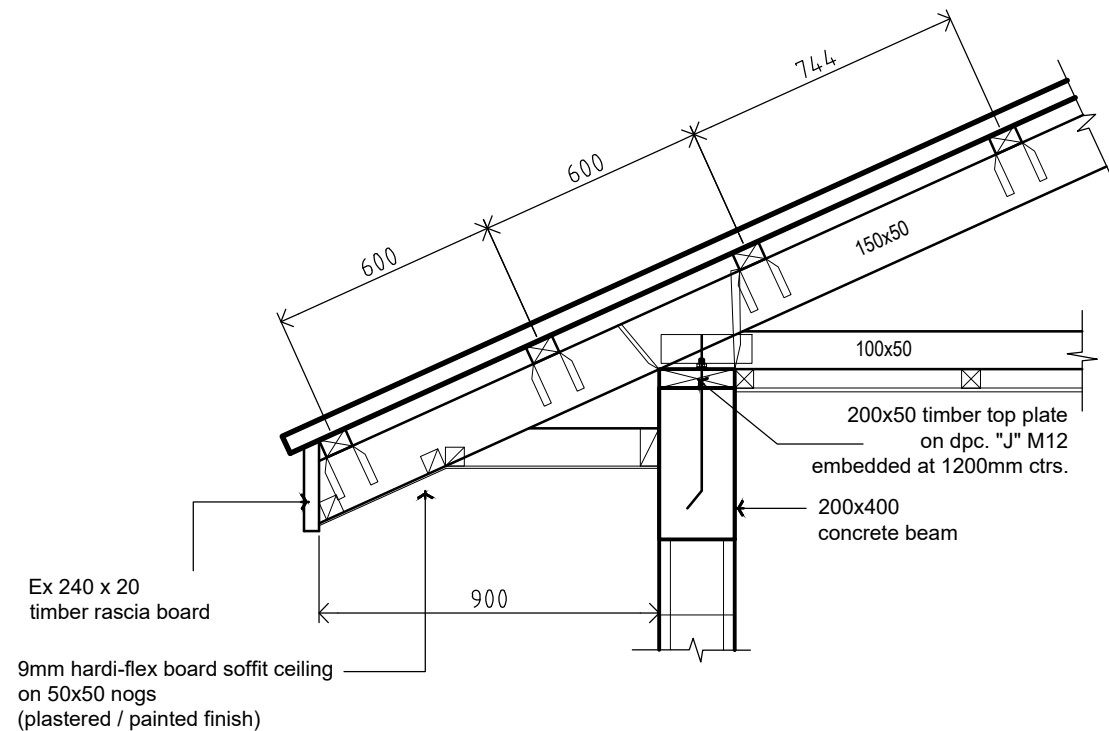


4 TYPICAL DETAIL  
A09 SCALE 1:20

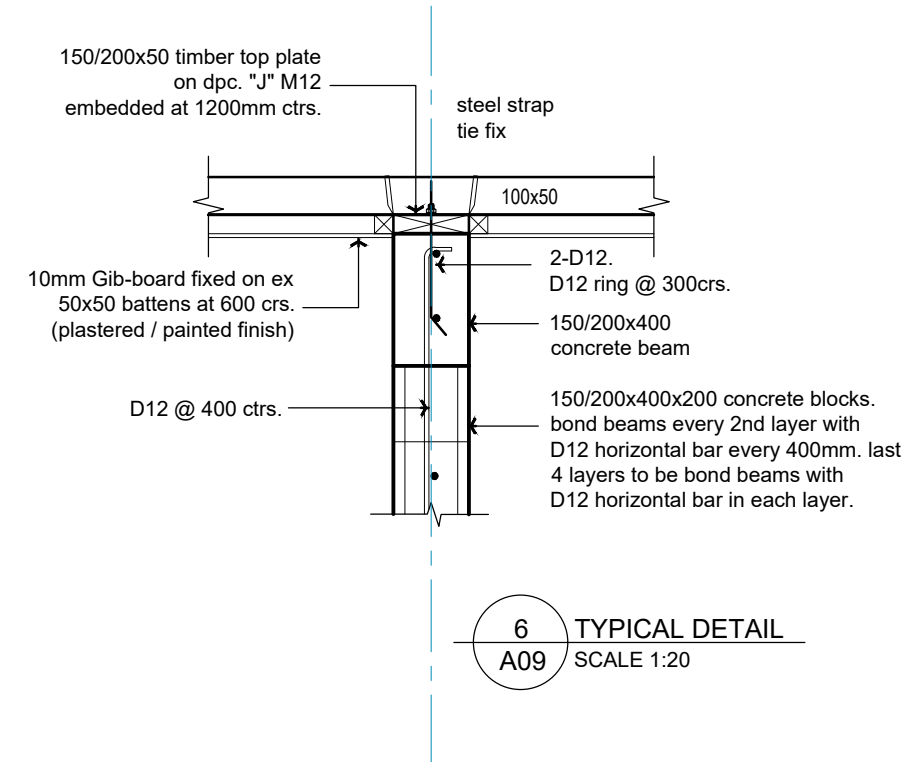




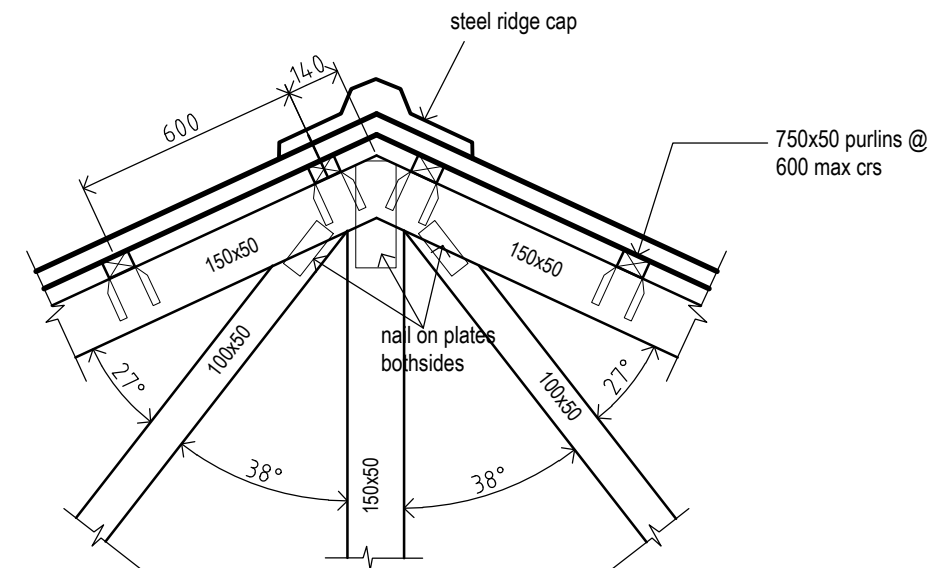
5 TYPICAL DETAIL  
A09 SCALE 1:20



7 TYPICAL DETAIL  
A09 SCALE 1:20



6 TYPICAL DETAIL  
A09 SCALE 1:20



8 TYPICAL DETAIL  
A09 SCALE 1:20

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**"PROPOSED JUDGES RESIDENCE HOUSE"**  
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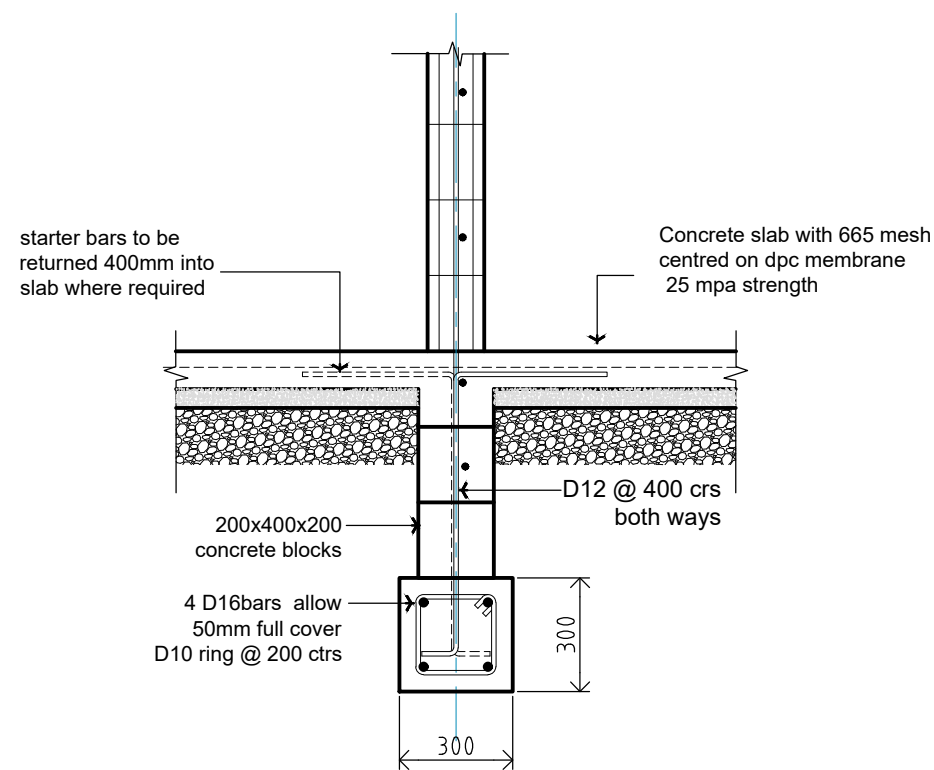


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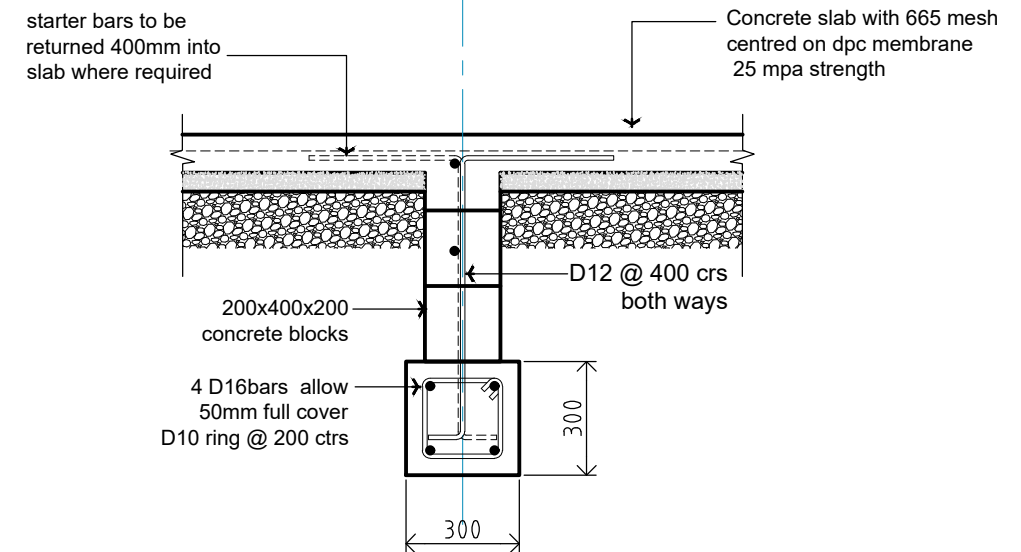
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SCALE:	1 : 20(A3)	SHEET No:	A11

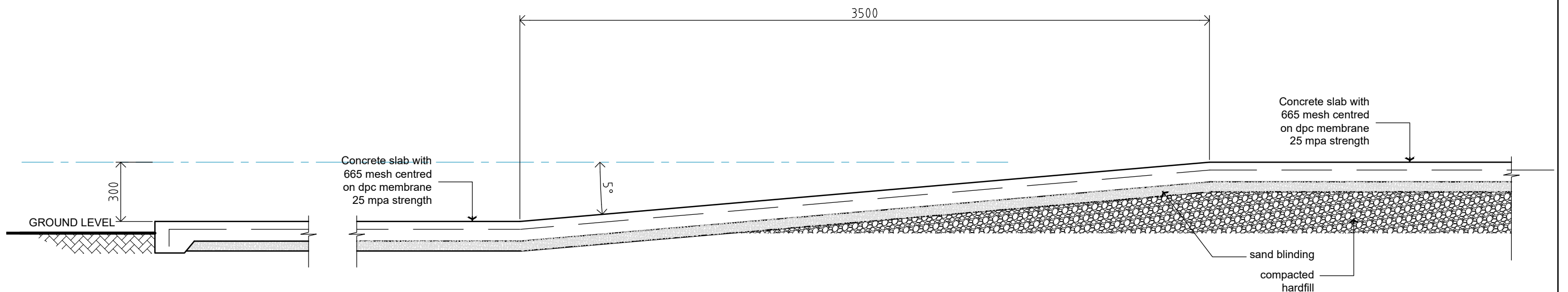
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9 TYPICAL DETAIL  
A04 SCALE 1:20



10 TYPICAL DETAIL  
A04 SCALE 1:20



11 TYPICAL DETAIL  
A04 SCALE 1:20

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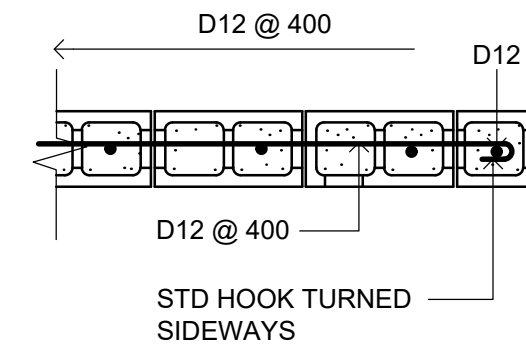
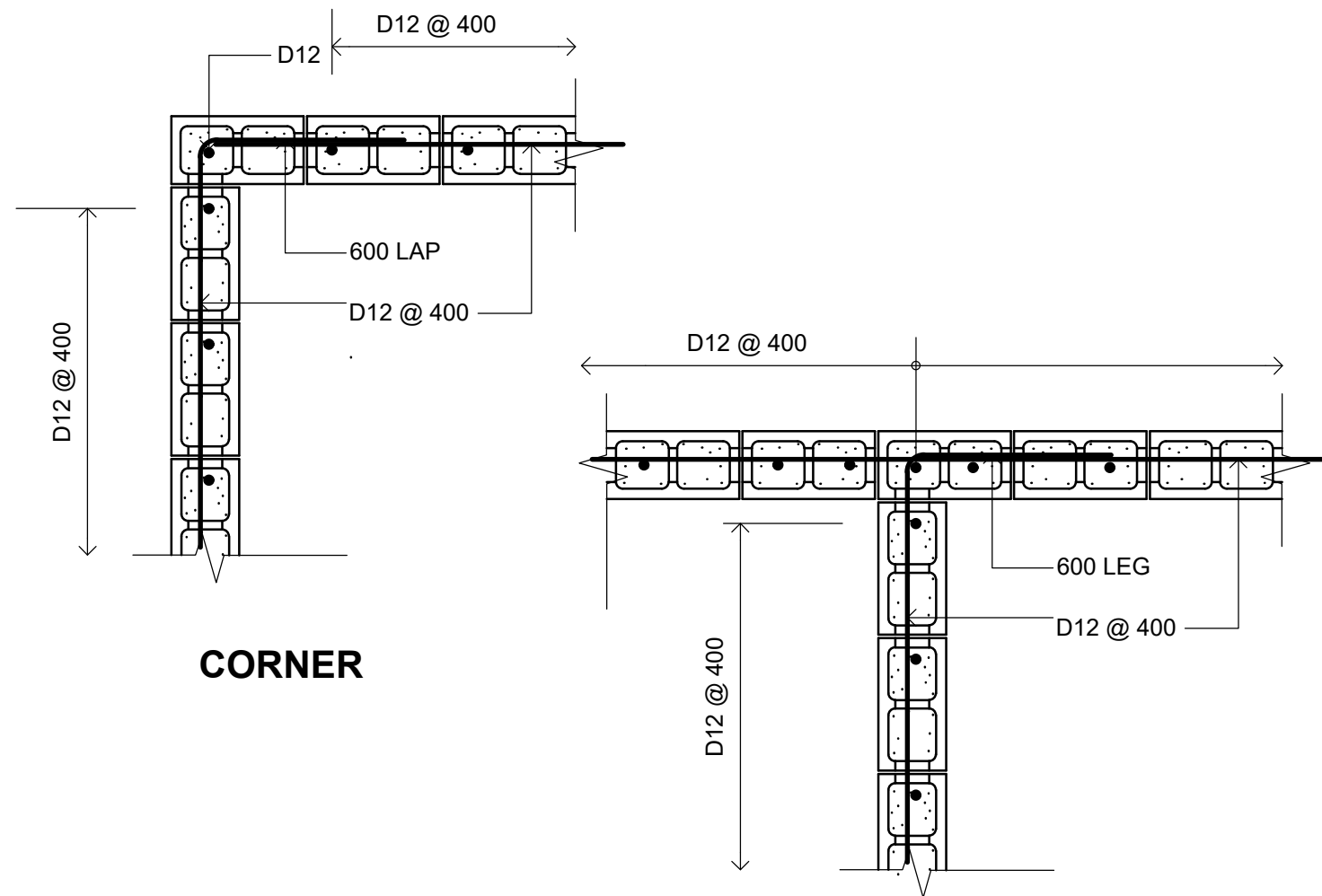


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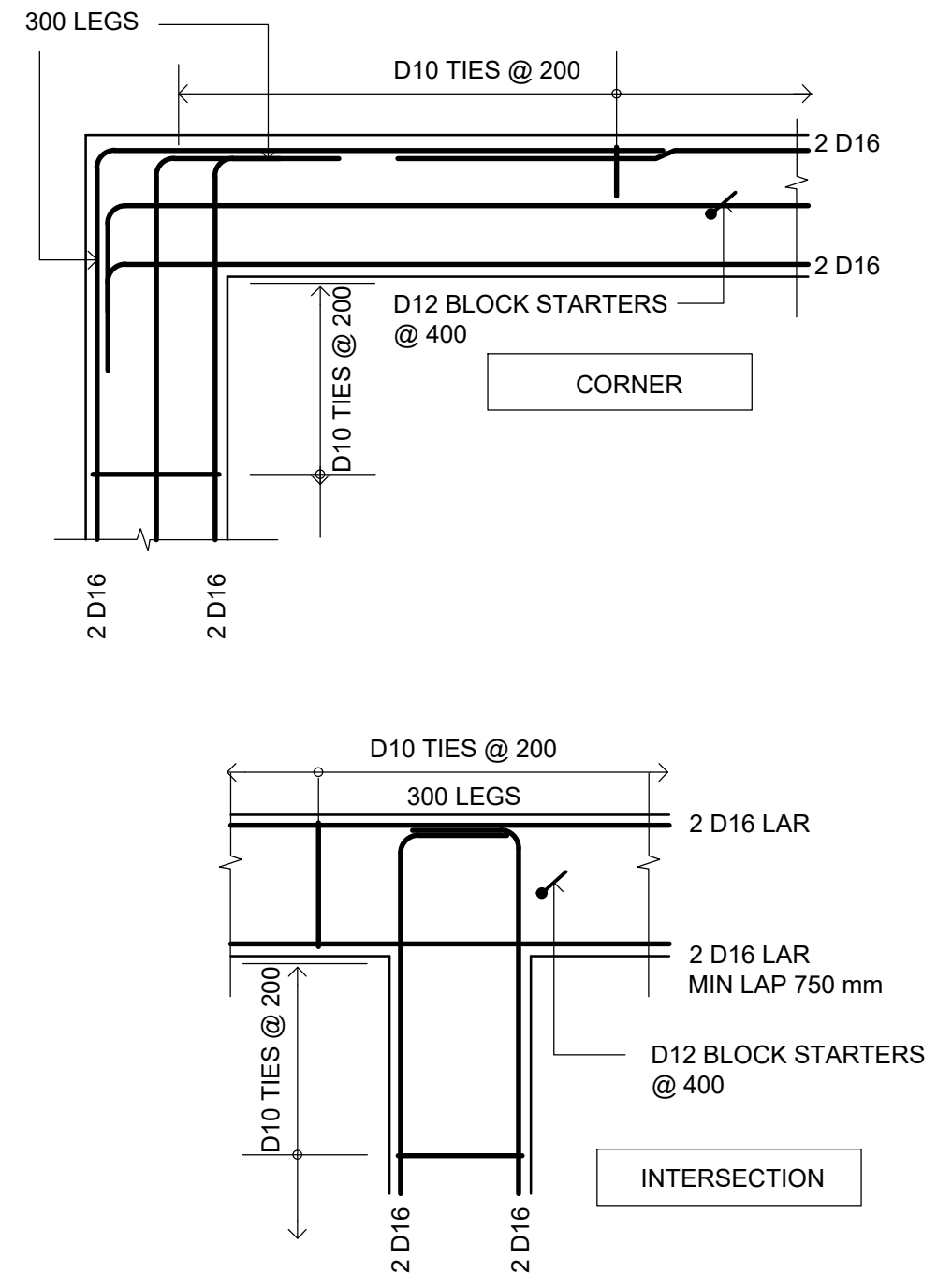
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DRAWN:	VeS	DATE:	02.02. 2024
CHECKED:	V/S	PRINT ISSUED:	02.02. 2024
SCALE:	1 : 20(A3)	SHEET No:	A12





**BLOCK-WORK DETAILS**  
1:20 (25MPA)



**FOOTING DETAILS**  
1:20 (25MPA)

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MINISTRY OF JUSTICE COURTS  
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**"PROPOSED JUDGES RESIDENCE HOUSE"**  
at Salelologa, Savaii

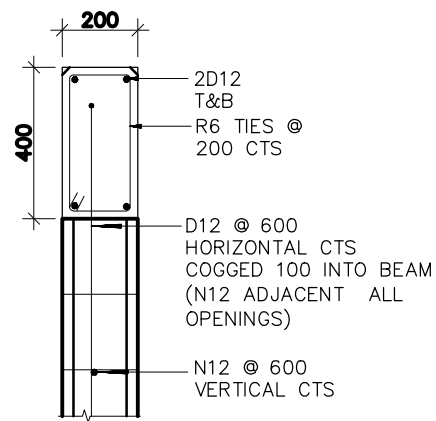


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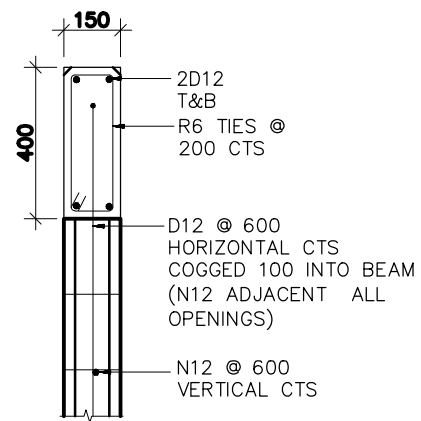
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CHECKED:	V/S	PRINT ISSUED:	02.02. 2024
SCALE:	1 : 20(A3)	SHEET No:	A13

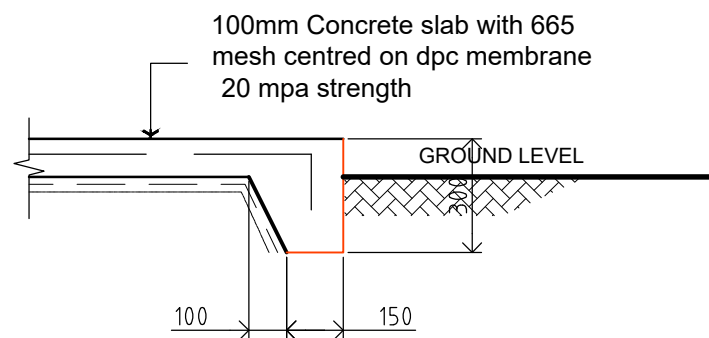
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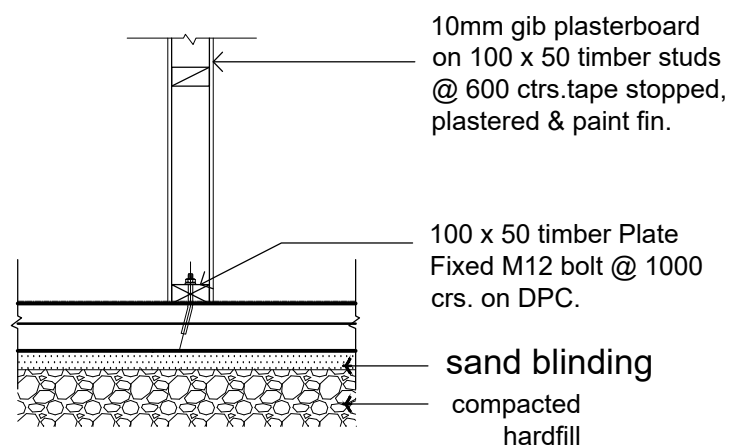
RING BEAM – RB1  
SECTION SCALE 1:10



RING BEAM – RB2  
SECTION SCALE 1:10



TYPICAL DETAIL  
SCALE 1:20



TIMBER WALL DETAIL  
SCALE 1:20

ARCHITECTURAL CONSULTANTS:



PROJECT TITLE:

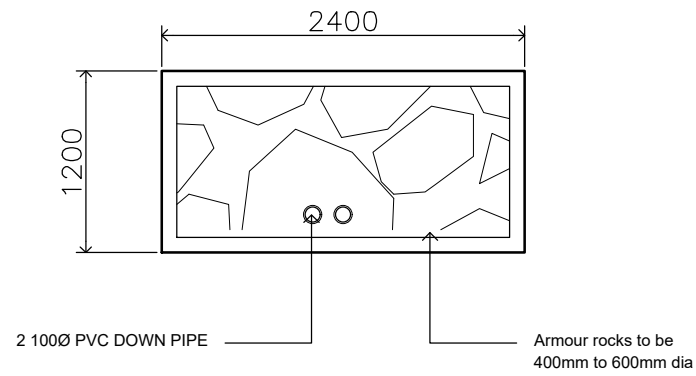
MINISTRY OF JUSTICE COURTS  
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**PROPOSED JUDGES RESIDENCE HOUSE**  
at Salelologa, Savaii



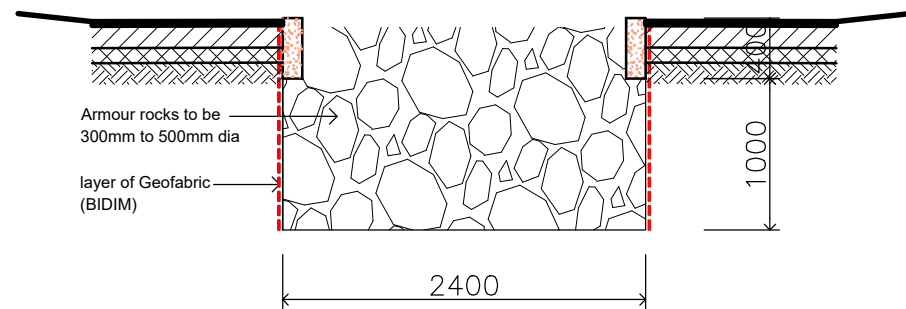
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DRAWN:	VeS	DATE:	02.02. 2024
CHECKED:	V/S	PRINT ISSUED:	02.02. 2024
SCALE:	1 : 20(A3)	SHEET No:	A14



SL. SPLASH AREA  
PLAN DETAIL 1:50



MH. SPLASH AREA  
TYP. SECTION 1:50

ARCHITECTURAL CONSULTANTS:



PROJECT TITLE:

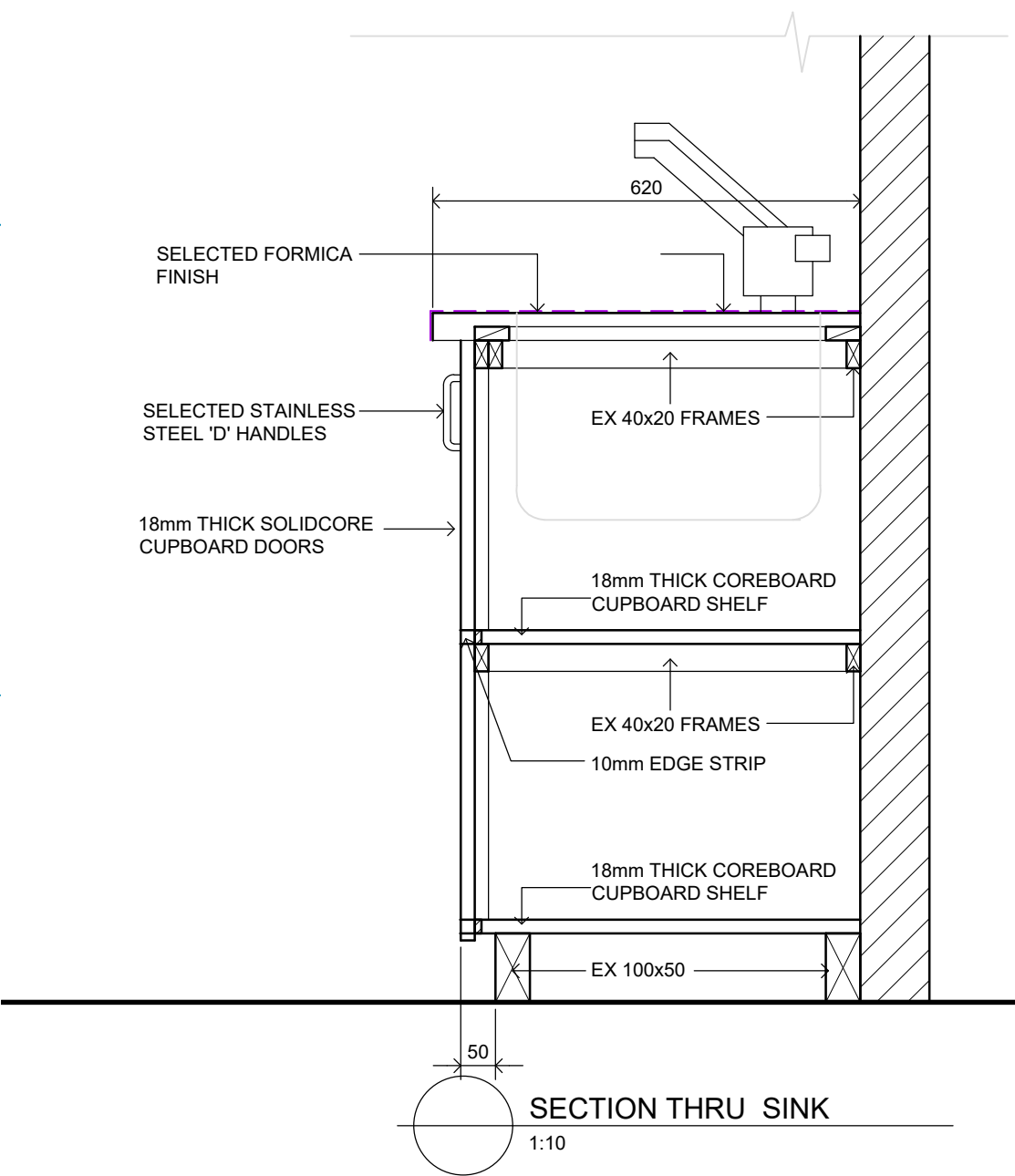
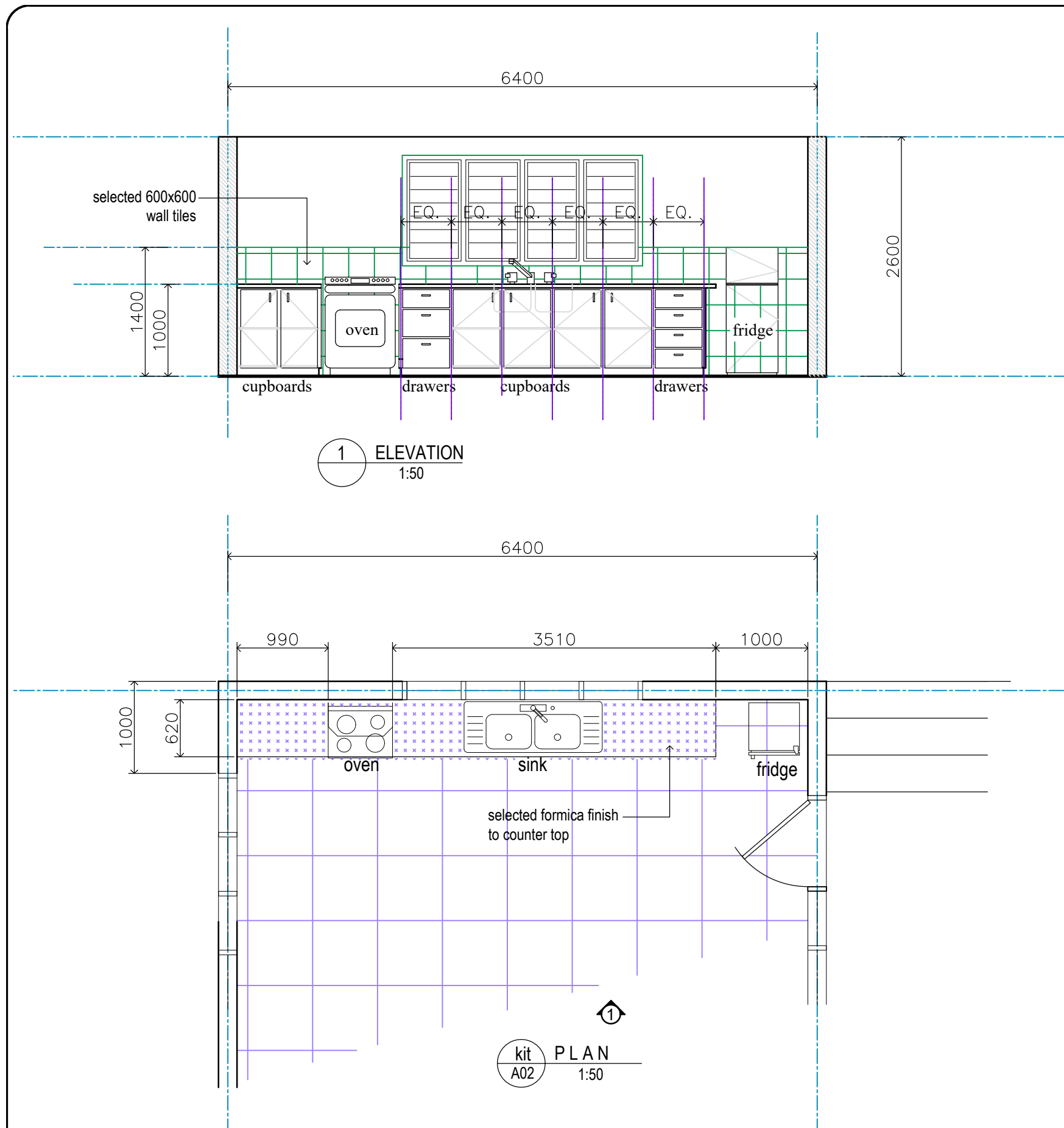
MINISTRY OF JUSTICE COURTS  
AND ADMINISTRATION  
**"PROPOSED JUDGES RESIDENCE HOUSE"**  
at Salelologa, Savaii



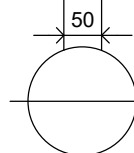
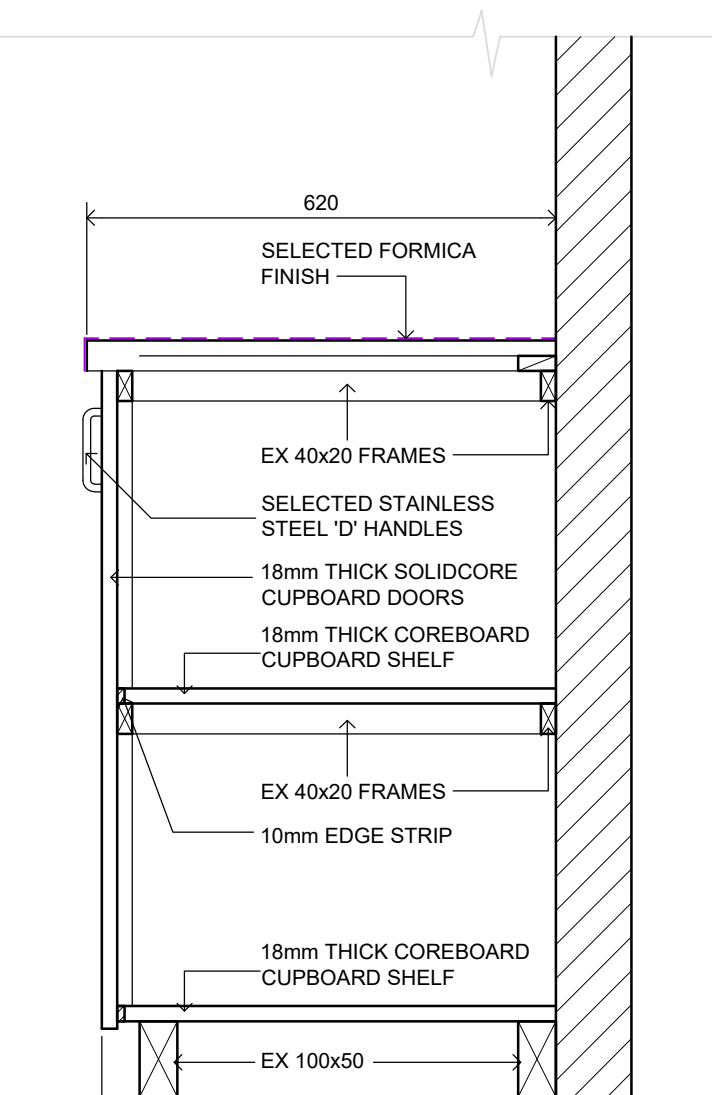
DRAWING TITLE:

**DETAILS**

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DRAWN:	VeS	DATE:	02.02. 2024
CHECKED:	V/S	PRINT ISSUED:	02.02. 2024
SCALE:	1 : 50(A3)	SHEET No:	A15

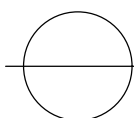
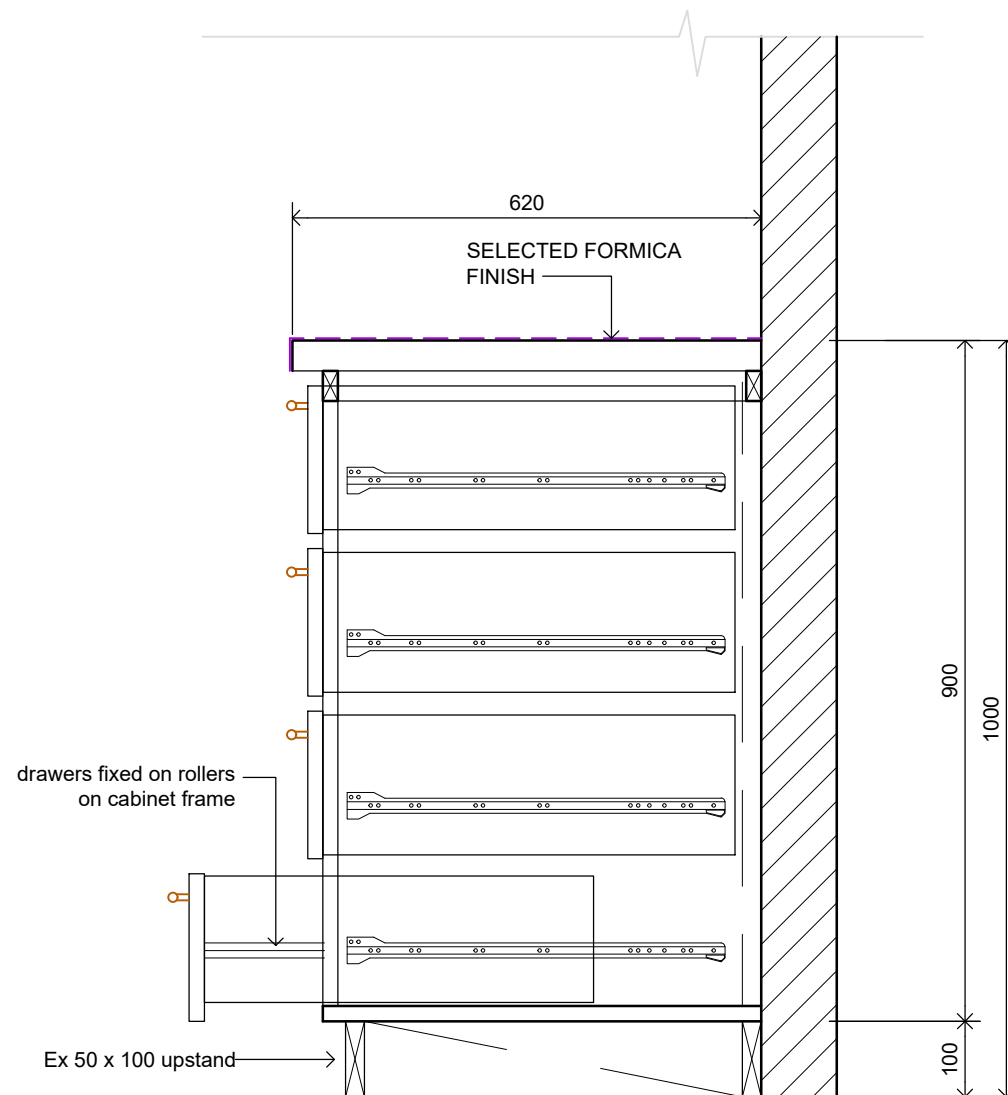






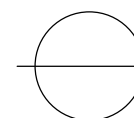
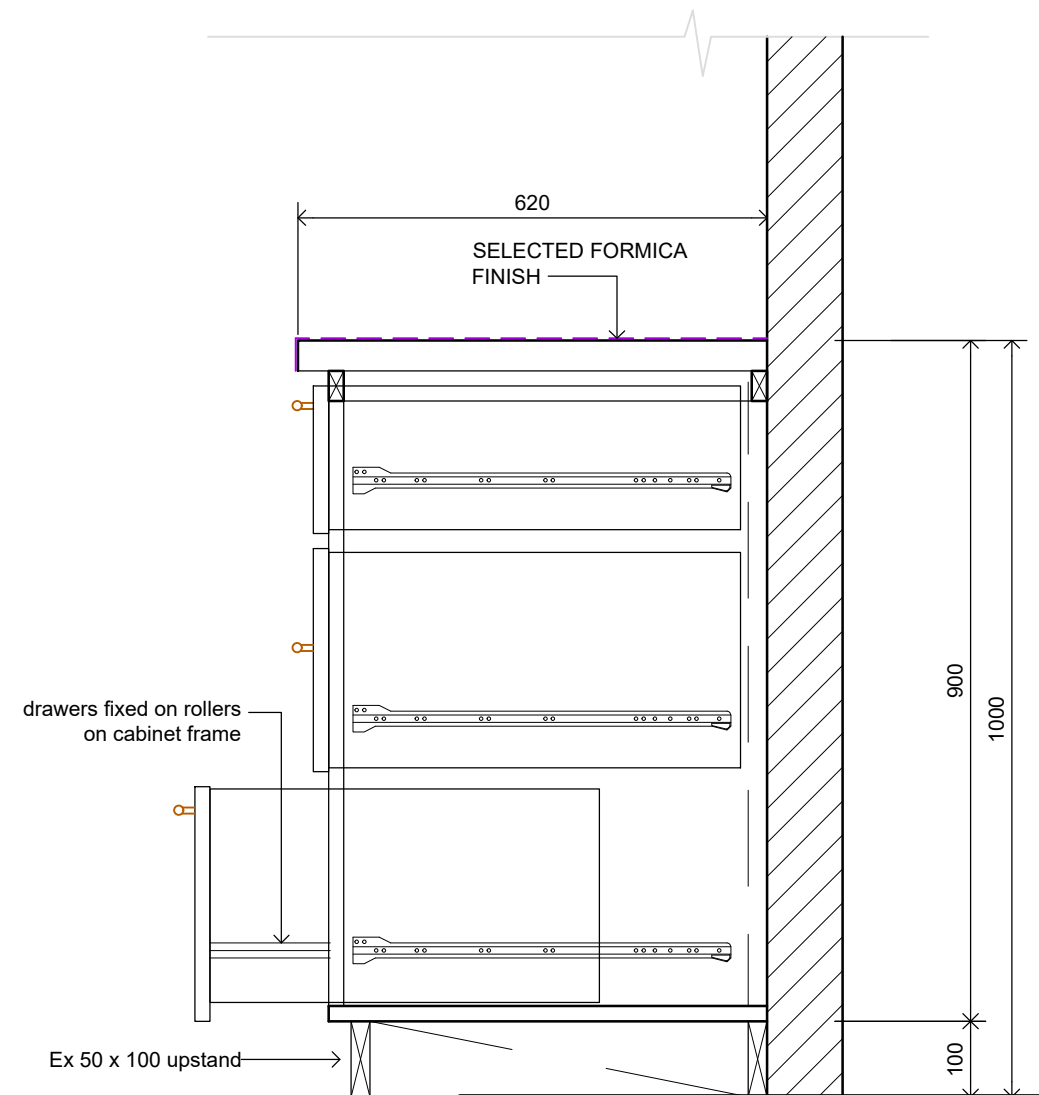
SECTION THRU CUPBOARD

1:10



SECTION THRU 4 DRAWER

1:10



SECTION THRU 3 DRAWER

1:10

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DRAWING TITLE:

**KITCHEN DETAILS**

DESIGNED:

VeS

DRAWN:

VeS

CHECKED:

V/S

SCALE:

1 : 10; 1:50 (A3)

DATE:

02.02. 2024

DATE:

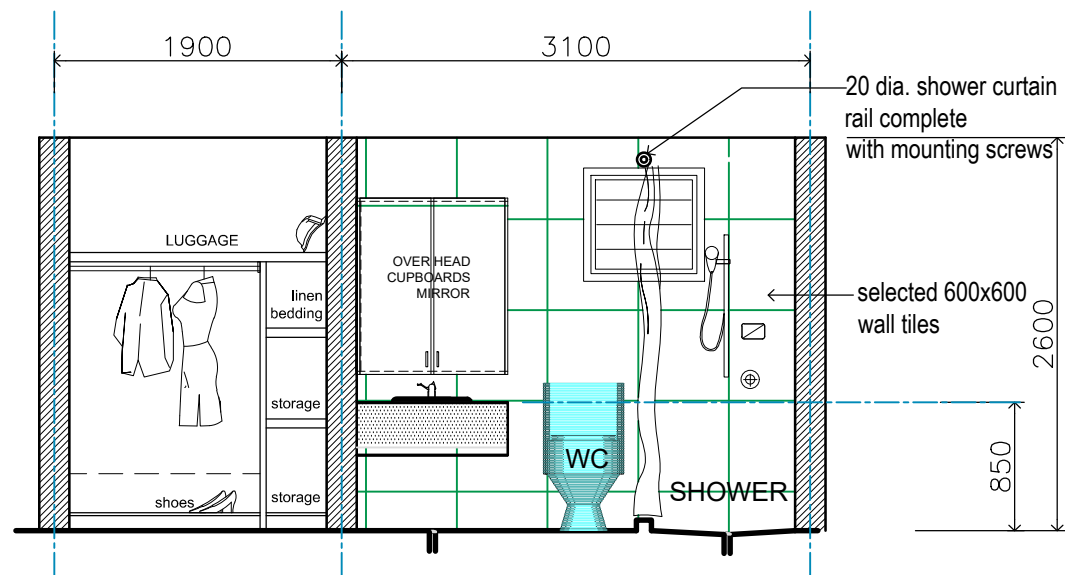
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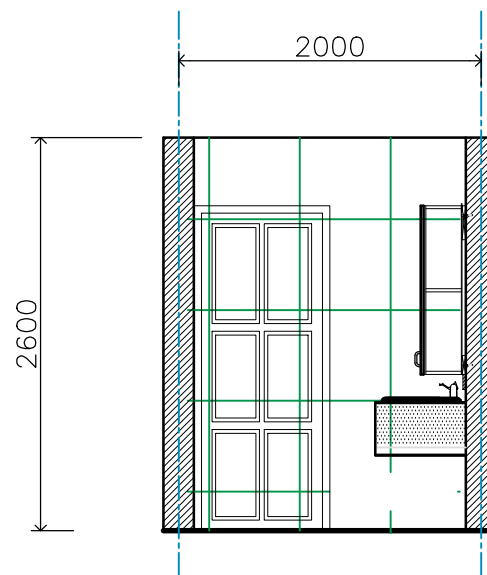
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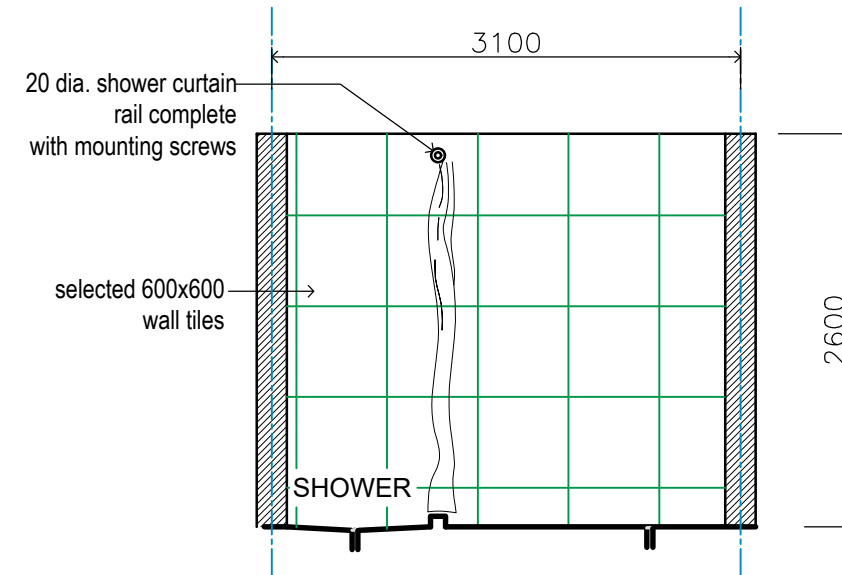
A18



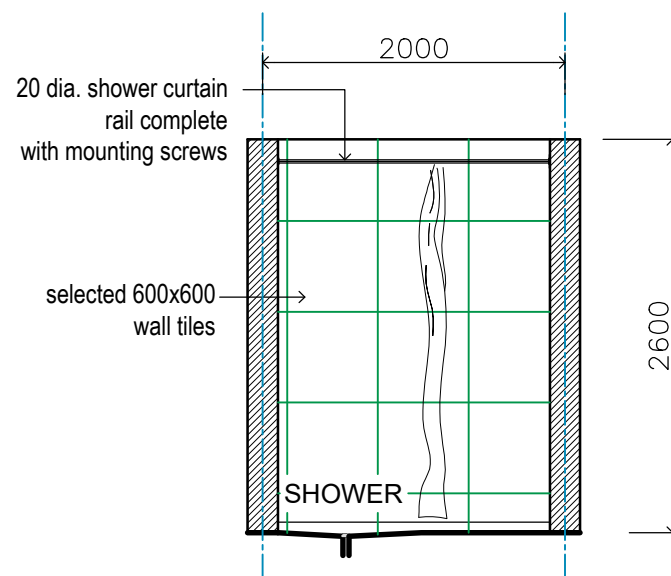
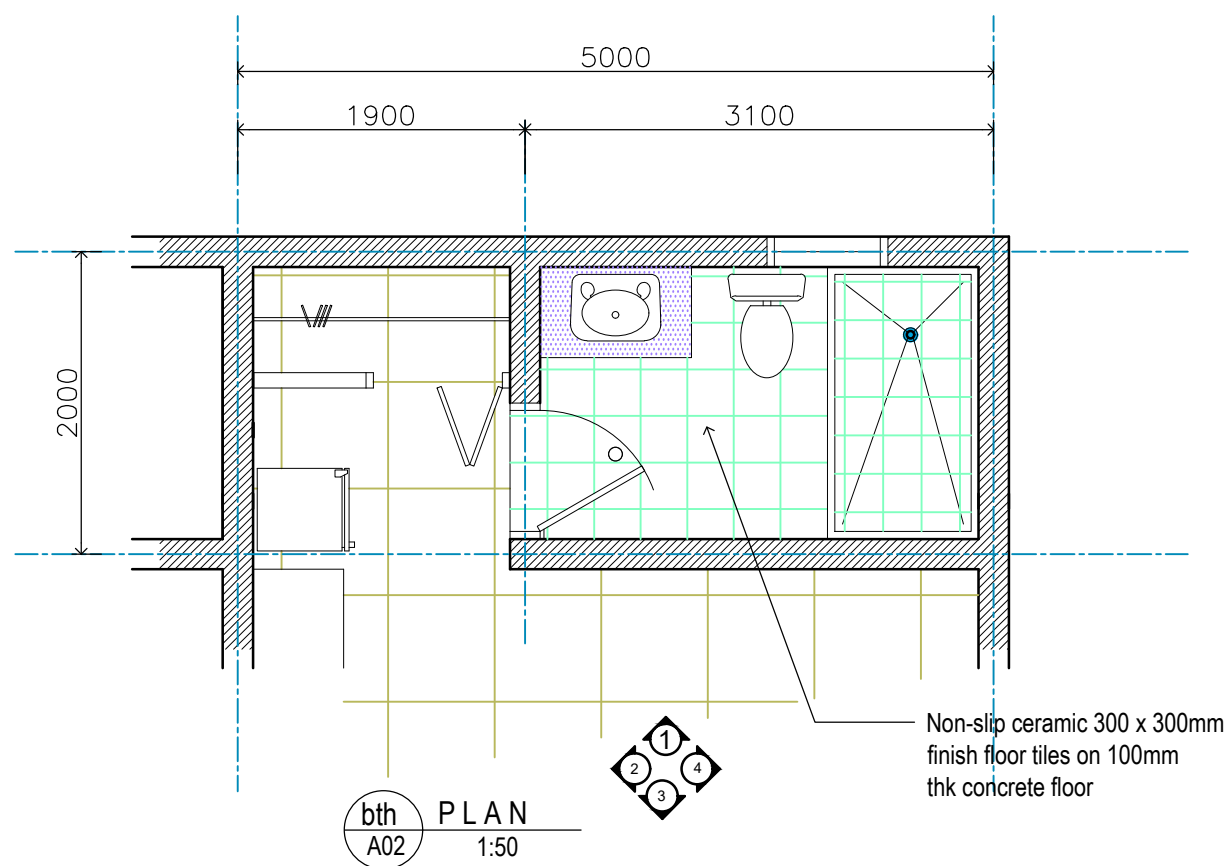
1 ELEVATION  
1:50



2 ELEVATION  
1:50



3 ELEVATION  
1:50



4 ELEVATION  
1:50

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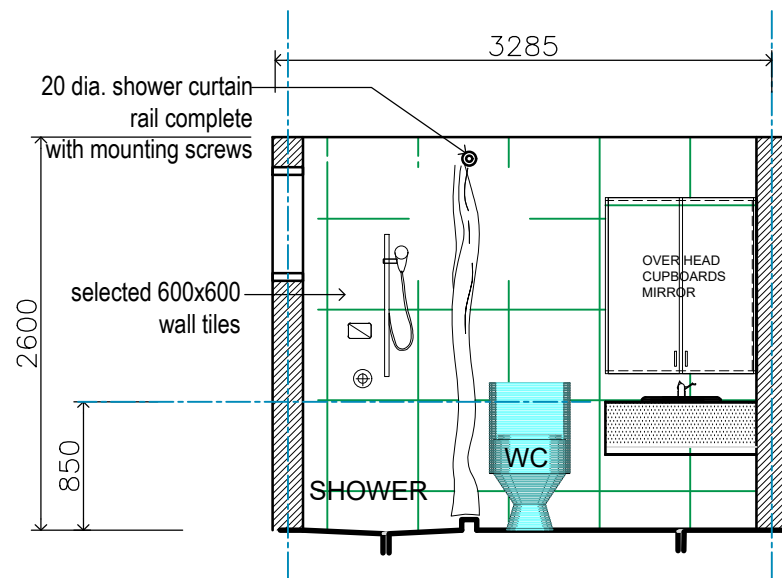
MINISTRY OF JUSTICE COURTS  
AND ADMINISTRATION  
"PROPOSED JUDGES RESIDENCE HOUSE"  
at Salelologa, Savaii



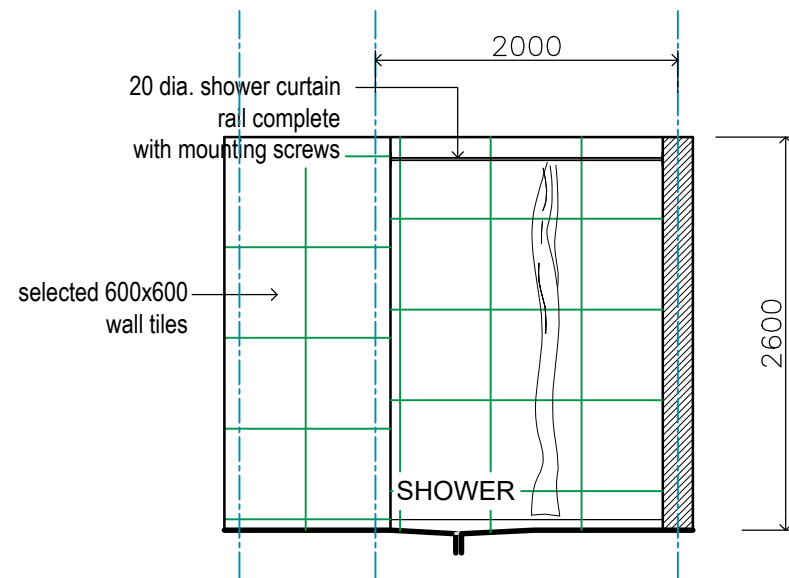
DRAWING TITLE:

**BATHROOM 1 DETAILS**

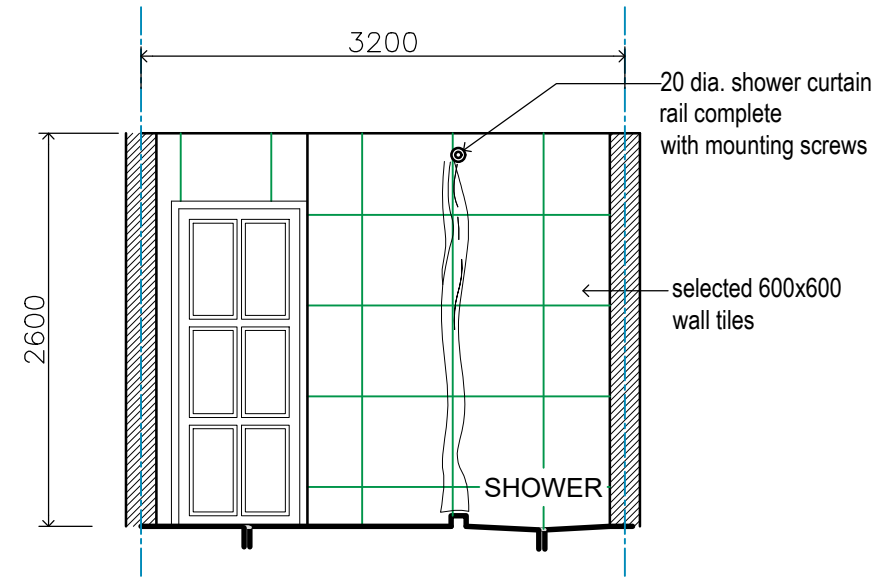
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CHECKED:	V/S	PRINT ISSUED:	02.02. 2024
SCALE:	1:50 (A3)	SHEET No:	A19



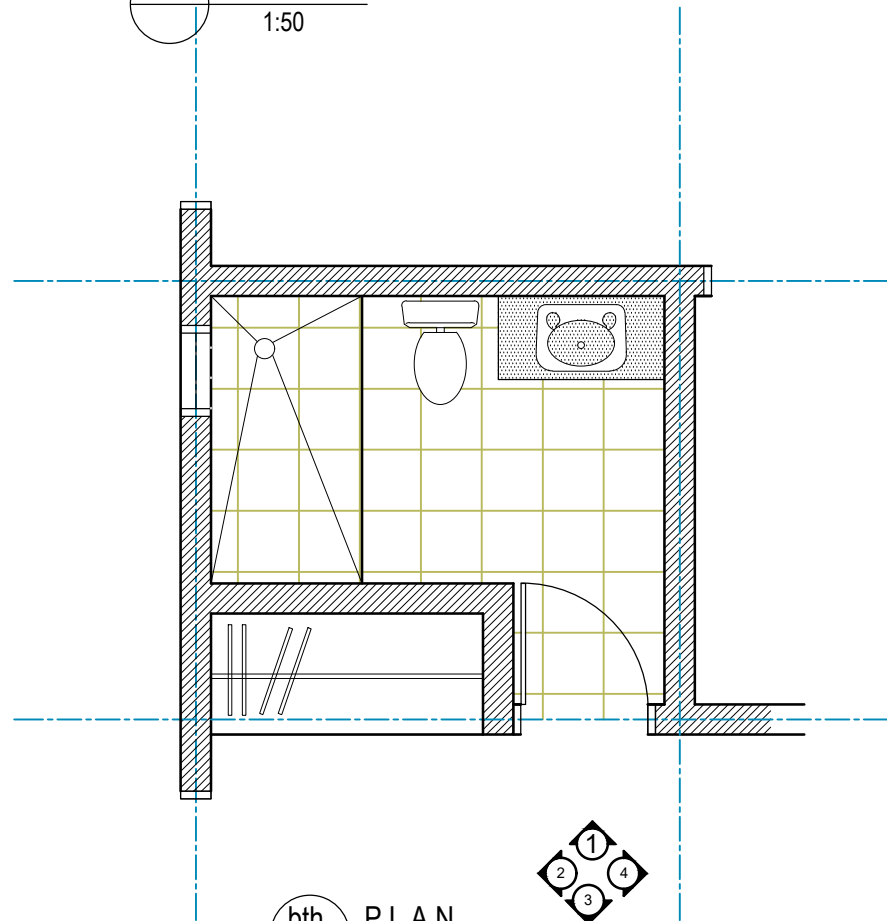
1 ELEVATION  
1:50



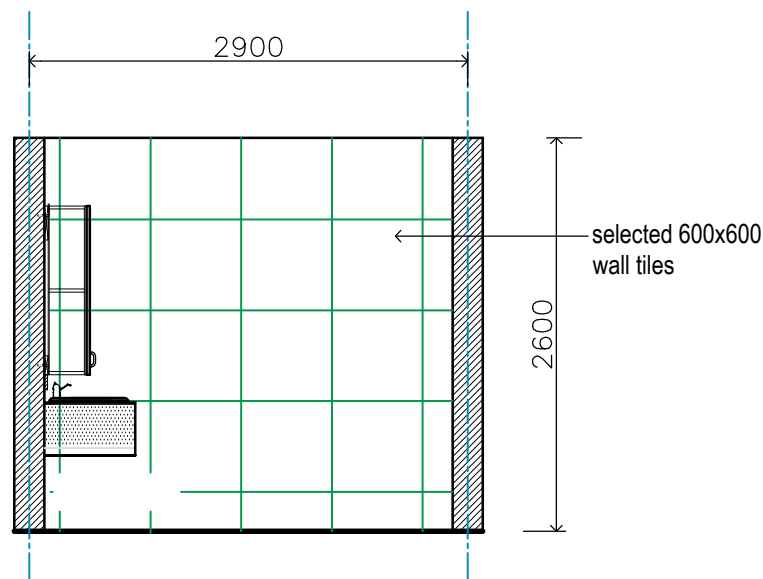
2 ELEVATION  
1:50



3 ELEVATION  
1:50



bth PLAN  
A02 1:50



4 ELEVATION  
1:50

ARCHITECTURAL CONSULTANTS:



PROJECT TITLE:

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**PROPOSED JUDGES RESIDENCE HOUSE**  
at Salelologa, Savaii



DRAWING TITLE:

**BATHROOM 2 DETAILS**

DESIGNED:

VeS

DRAWN:

VeS

CHECKED:

V/S

SCALE:

1:50 (A3)

DATE:

02.02. 2024

DATE:

02.02. 2024

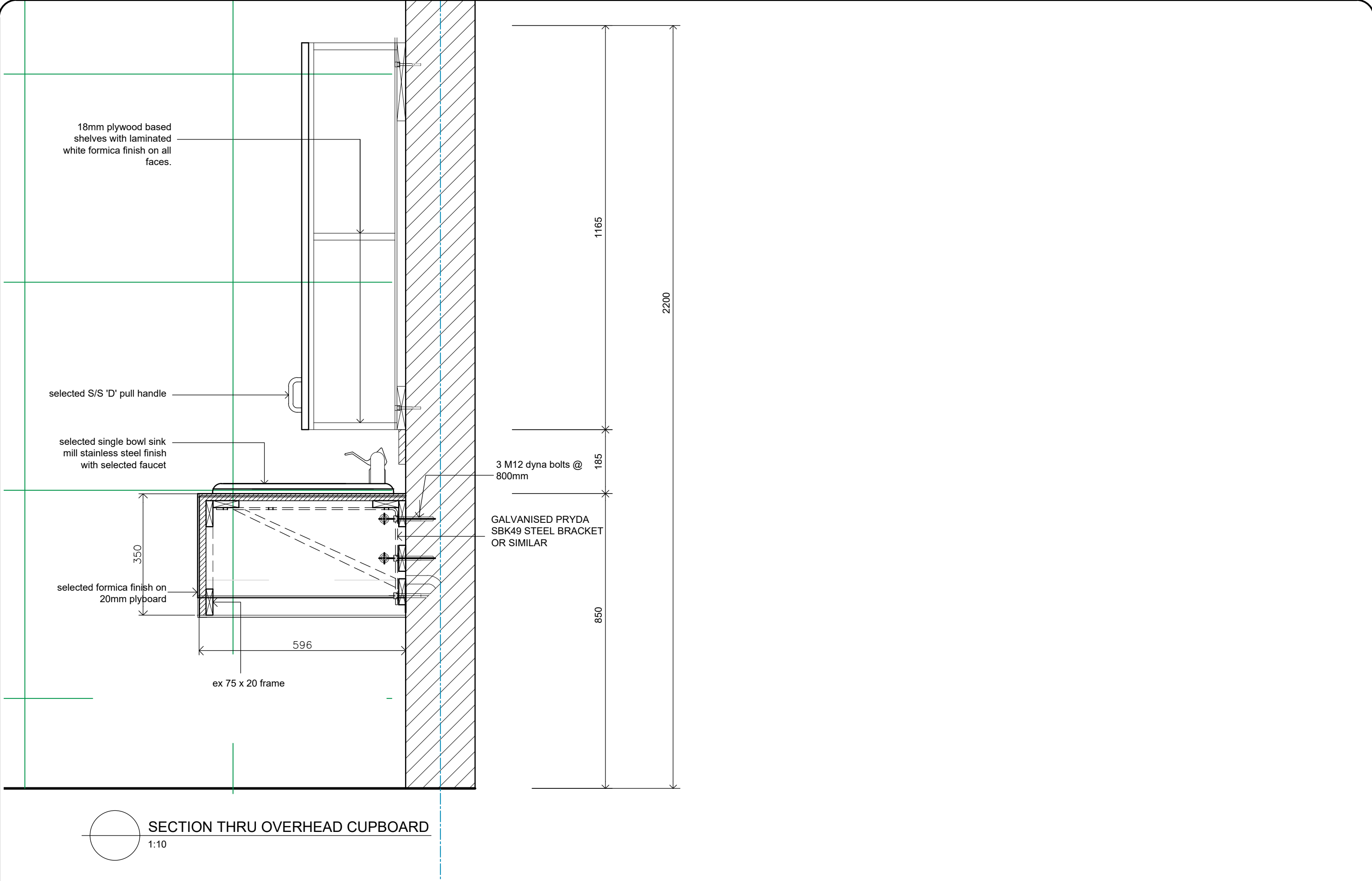
PRINT ISSUED:

02.02. 2024

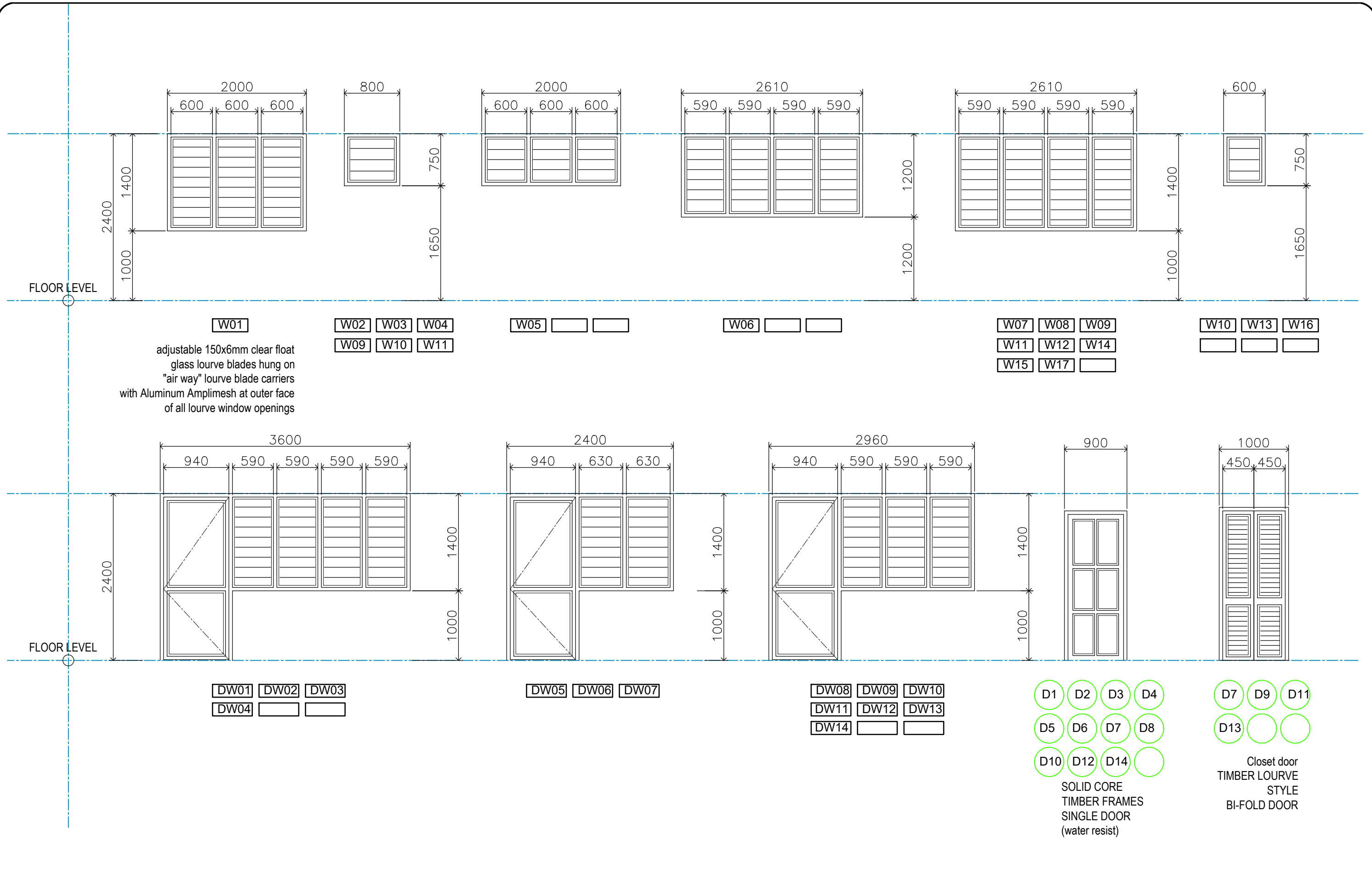
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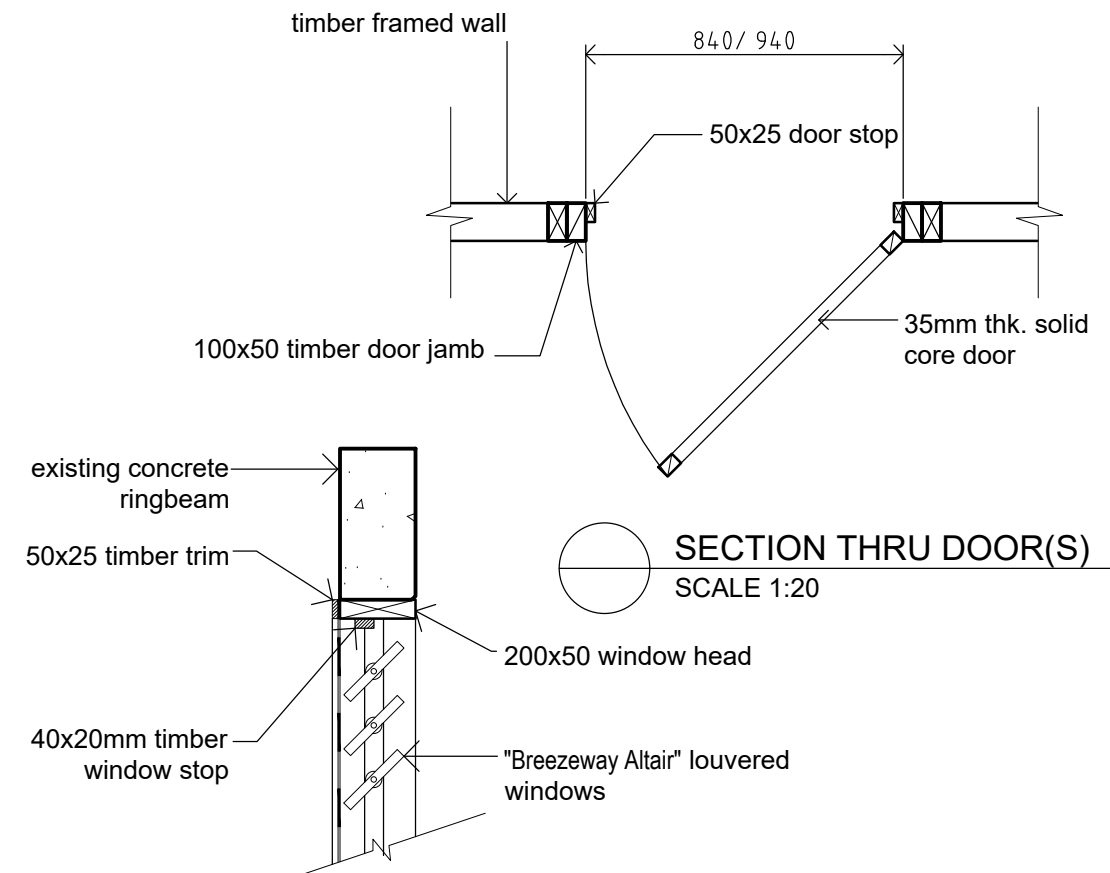
A19a

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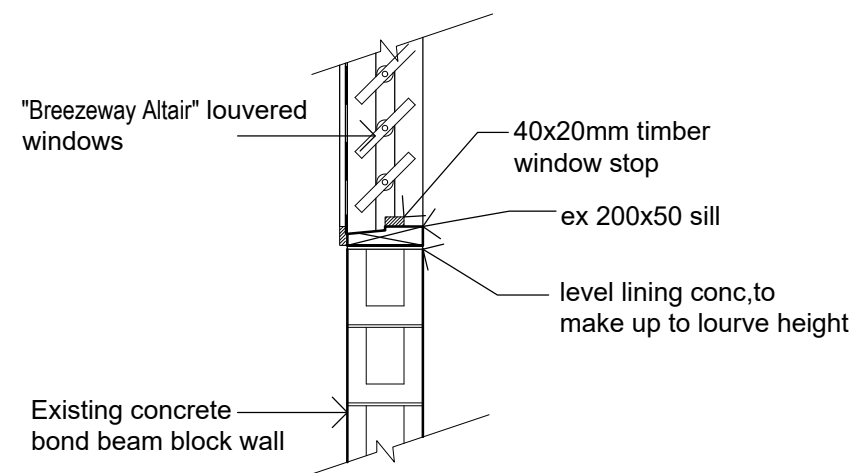






SECTION THRU DOOR(S)  
SCALE 1:20

WINDOW HEAD DETAIL  
SCALE 1:20



WINDOW SILL DETAIL  
SCALE 1:20

ARCHITECTURAL CONSULTANTS:



PROJECT TITLE:

MINISTRY OF JUSTICE COURTS  
AND ADMINISTRATION  
**"PROPOSED JUDGES RESIDENCE HOUSE"**  
at Salelologa, Savaii

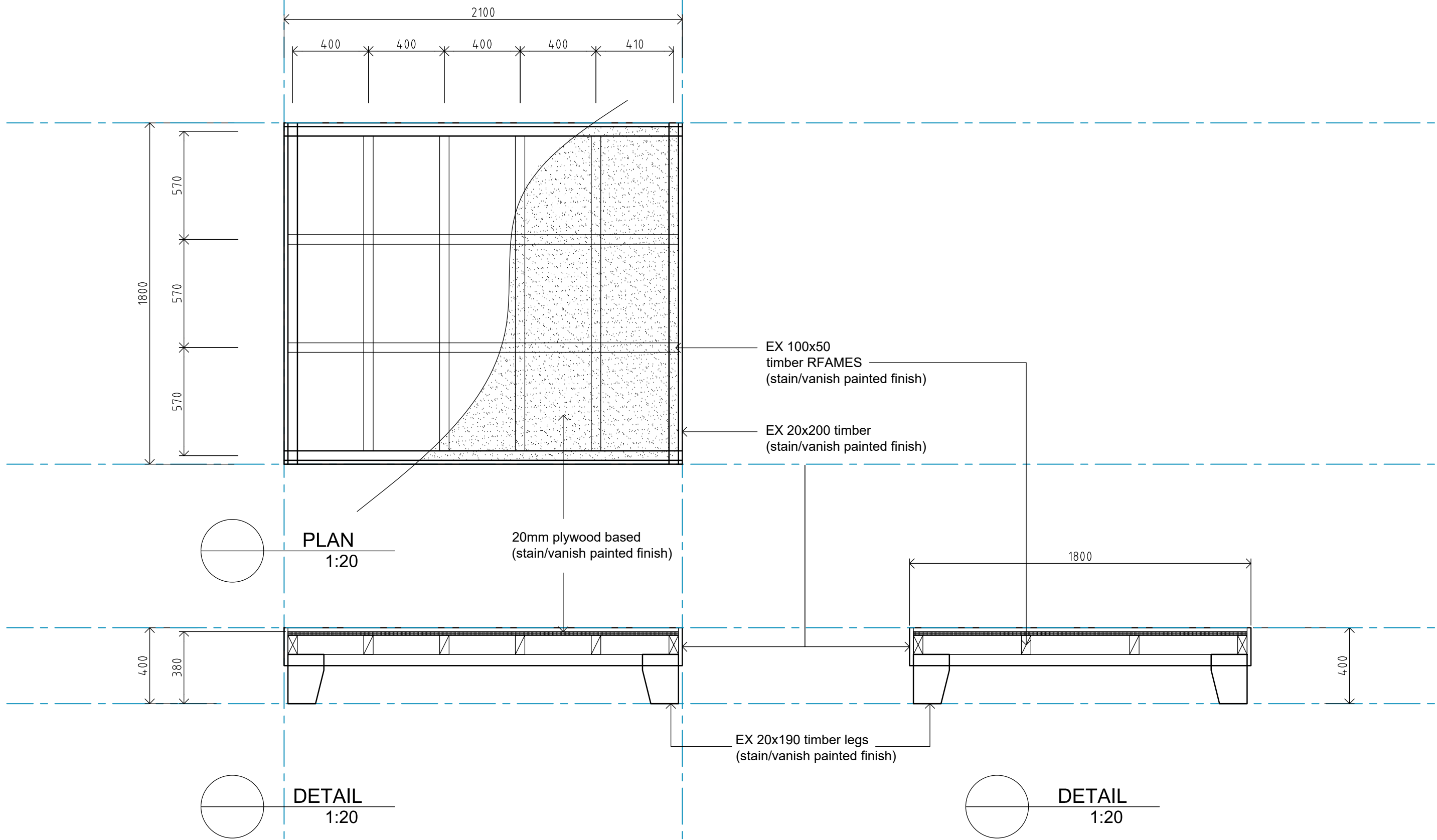


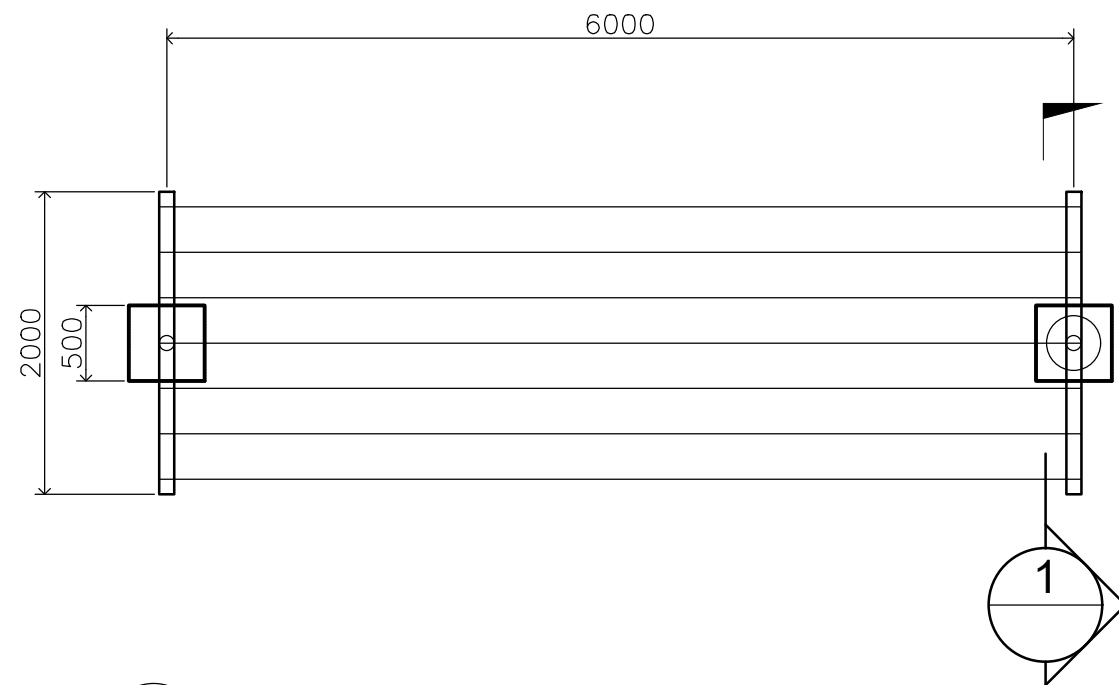
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**DOOR / WINDOW SCHEDULES  
DETAILS**

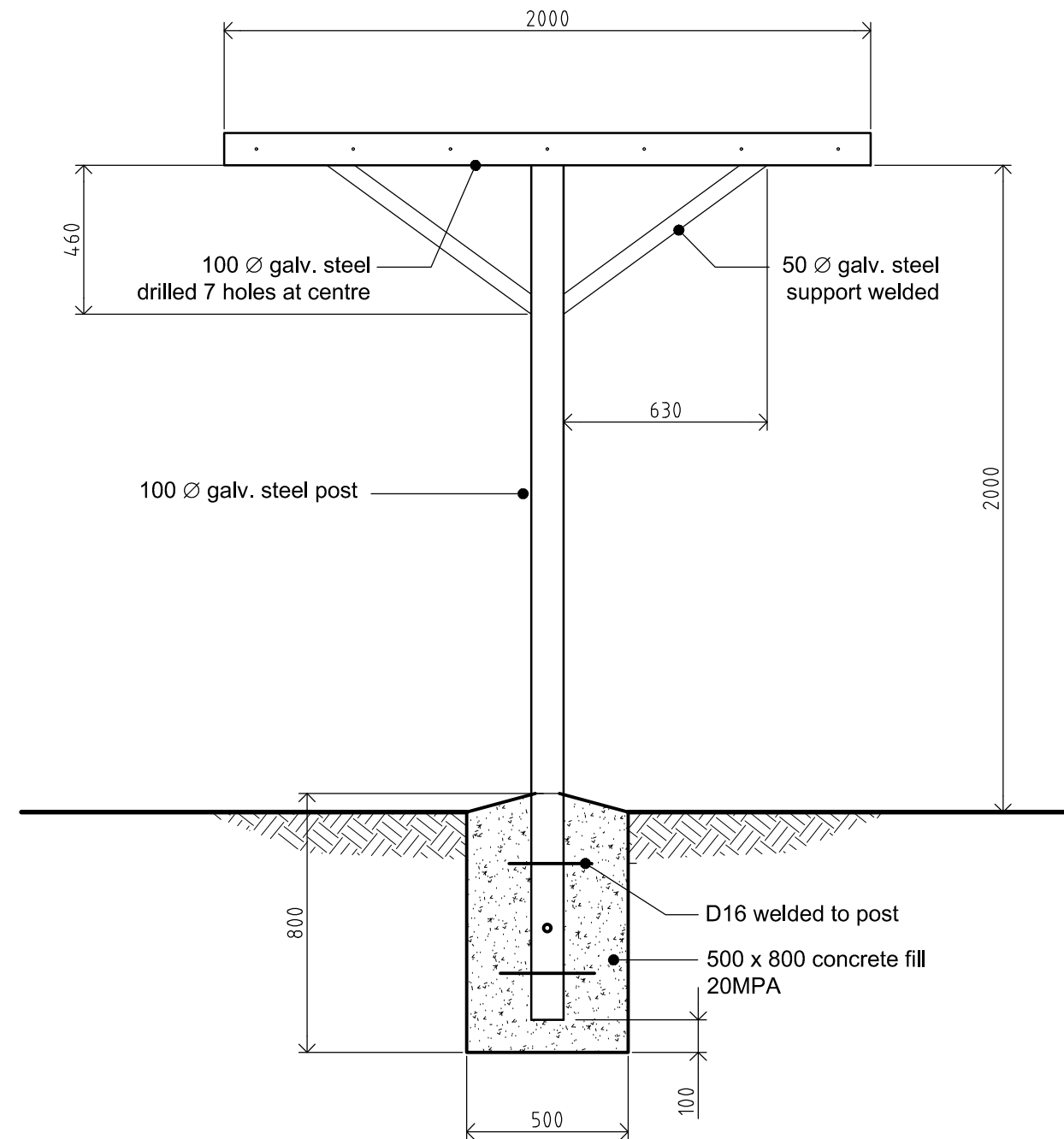
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**LAYOUT PLAN**  
CLOTHES HANGER  
1 :50 ( Concrete strength 20 mPa)



**1 DETAIL**  
1:20

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MINISTRY OF JUSTICE COURTS  
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**"PROPOSED JUDGES RESIDENCE HOUSE"**  
at Salelologa, Savaii



DRAWING TITLE:

**OUTDOOR CLOTHES HANGER  
DETAILS**

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GENERAL

1. STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION, ARCHITECTURAL, CIVIL AND ENGINEERING SERVICES DOCUMENTS.
2. UNLESS OTHERWISE NOTED, ALL LEVELS ARE IN METERS, AND ALL DIMENSIONS ARE IN MILLIMETERS
3. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING FROM DRAWINGS.
4. ALL DISCREPANCIES SHALL BE REFERRED TO THE DESIGN ENGINEER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF ALL NECESSARY TEMPORARY WORKS TO ENSURE STRENGTH AND STABILITY OF THE STRUCTURE AND ADEQUATE SUPPORT TO THE EXISTING SERVICES THROUGHOUT THE COURSE OF THE WORKS.
6. TAKE PRECAUTIONS TO ESTABLISH LOCATION OF AND PROTECT EXISTING SERVICES AT SITE. SERVICES SHOWN ON DRAWINGS ARE IN APPROXIMATE LOCATIONS ONLY. SERVICES OTHER THAN THOSE SHOWN MAY EXIST ON SITE. HAND EXCAVATE WITHIN ONE METRE OF SERVICES.
7. WHERE PROPRIETARY PRODUCTS ARE SPECIFIED IN THE DOCUMENTS THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE PRODUCT FOR APPROVAL.
8. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT CODES OF PRACTICE EXCEPT WHERE VARIED BY THE SPECIFICATION AND/OR DRAWINGS

AS/NZS 1170	STRUCTURAL DESIGN ACTIONS
NZS 3404	STEEL STRUCTURES STANDARD
NZS 4711	QUALIFICATION TESTS FOR MANUAL METAL ARC WELDERS
NZS 4781	CODE OF PRACTICE FOR SAFETY IN WELDING AND CUTTING
AS/NZS 3679	HOT ROLLED STRUCTURAL STEEL BARS AND SECTIONS
AS 1163	STRUCTURAL STEEL AND HOLLOW SECTIONS
AS/NZS 4600	COLD FORMED STEEL STRUCTURES
AS/NZS 1554	STRUCTURAL STEEL WELDING PART 1: WELDING OF STEEL STRUCTURES
AS/NZS 1627	METAL FINISHING PREPARATION AND PRETREATMENT OF METAL SURFACES
AS/NZS 4680	HOT DIP GALVANISED (ZINC) COATINGS ON FABRICATED FERROUS ARTICLES
AS/NZS 2312	GUIDE TO THE PROTECTION OF IRON AND STEEL AGAINST EXTERIOR ATMOSPHERE CORROSION
AS/NZS 5131	STRUCTURAL STEELWORK - FABRICATION AND ERECTION
NZS 3101	CONCRETE STRUCTURES STANDARD
NZS 3104	SPECIFICATION FOR CONCRETE PRODUCTION - HIGH GRADE AND SPECIAL GRADE
NZS 3109	CONCRETE CONSTRUCTION
NZS 3114	CONCRETE SURFACE FINISHES
NZS 3111	METHODS OF TEST FOR WATER AND AGGREGATE FOR CONCRETE
NZS 3112	METHODS OF TEST FOR CONCRETE
NZS 3121	SPECIFICATION FOR WATER AND AGGREGATE FOR CONCRETE
NZS 3106	DESIGN OF CONCRETE STRUCTURES FOR THE STORAGE OF LIQUIDS

9. ABBREVIATIONS ON THE DRAWINGS ARE AS FOLLOWS:

ABR	ALTERNATE BAR REVERSED
AFFL	ABOVE FINISHED FLOOR LEVEL
ALT	ALTERNATE
B	BOTTOM
CJ	CONSTRUCTION JOINT
CP	CENTRALLY PLACED
CRS	CENTRES
DIA	DIAMETER
DP	DOWNPIPE
DRG	DRAWING
EF	EACH FACE
EJ	EXPANSION JOINT
EW	EACH WAY

FF	FAR FACE
FFL	FINISHED FLOOR LEVEL
FGL	FINISHED GROUND LEVEL
FL	FINISHED LEVEL
FW	FILLET WELD
FWAR	FILLET WELD ALL ROUND
GALV	GALVANISED
HDG	HOT DIP GALVANISED
LAR	LAP AT RANDOM
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MEJ	MASONRY EXPANSION JOINT
MIN	MINIMUM

CONCRETE

1. MINIMUM CONCRETE STRENGTHS SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE ON DRAWINGS:

ELEMENT	f'c (MPa)
SITE CONCRETE	10
PRECAST CONCRETE WALLS	30
CONCRETE SLAB	25
MASS CONCRETE	20

2. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
3. ALL CONSTRUCTION JOINTS SHALL BE TYPE B. REFER TO NZS 3109:1997 SECTION 5.6 FOR DETAILS OF CONSTRUCTION JOINT TYPES. CONSTRUCTION JOINTS WHERE NOT SHOWN ON DRAWINGS SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
4. TOLERANCES AND FINISHES TO BE AS PER SPECIFICATION.
5. SCHEDULE OF SURFACE FINISHES:

ELEMENT	FINISH
CONCRETE EXPOSED IN FINISHES SURFACE (FORMED)	F5
OTHER CONCRETE EXPOSED IN FINISHED SURFACE (UNFORMED)	U5 - BRUSHED FINISH

6. 5mm RADIUS CORNERS SHALL BE PROVIDED TO OUTER EDGES OF CONCRETE MEMBERS, UNO.
7. PROVIDE MINIMUM CLEAR COVER TO REINFORCEMENT AS SHOWN BELOW, EXCEPT WHERE SPECIFIED OTHERWISE.

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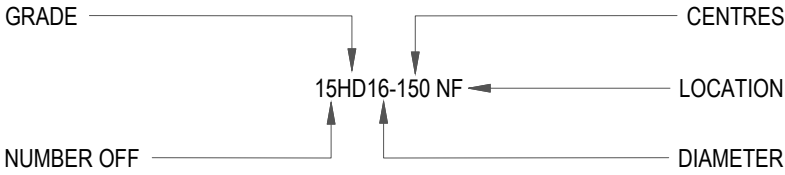


LOCATION	COVER (mm)
PRECAST CONCRETE	35
FOUNDATIONS CAST AGAINST FORMWORK	50
FOUNDATIONS CAST AGAINST DPM	50
FOUNDATIONS CAST AGAINST NATURAL GROUND	75
ELSEWHERE UNLESS NOTED OTHERWISE	75

8. EXPOSURE CLASSIFICATION FOR ALL ABOVE GROUND IS A2 (EXTERNAL) AND BELOW GROUND IS B2
9. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH NZS 3104:1991 AND NZS 3109:1997.
10. ALL CONCRETE SHALL BE 'SPECIAL' OR 'HIGH GRADE' AS DEFINED IN NZS 3109, CLAUSE 6.2, WITH SUFFICIENT CEMENT QUANTITY TO ENSURE SATISFACTORY FINISH AND DURABILITY, FROM AN APPROVED READY MIX PLANT SUITABLY GRADED IN ACCORDANCE WITH NZRMC (BASED ON NZS 3104:1991).
11. CALCIUM CHLORIDE SHALL NOT BE USED.
12. MAXIMUM NOMINAL AGGREGATE SIZE SHALL GENERALLY BE 19mm UNLESS NOTED OTHERWISE ON DRAWINGS.
13. CONCRETE SHALL NOT BE PUMPED WITHOUT THE ENGINEER'S PRIOR APPROVAL. THE AGGREGATE USED, AND OVERALL MIX DESIGN (INCLUDING THE USE OF ANY ADDITIVES) SHALL MEET THE PROVISIONS OF SECTION 2 OF 'ALKALI AGGREGATE REACTION (C AND CA)'.
14. CURE CONCRETE IN ACCORDANCE WITH NZS 3109 FOR 7 DAYS.
15. DO NOT MAKE HOLES, PENETRATIONS, RECESSES, CHASES, NOR EMBED PIPES (OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS) WITHOUT APPROVAL OF ENGINEER. DO NOT PLACE CONDUITS, PIPES ETC WITHIN COVER CONCRETE. LOCATE CONDUITS, PIPES ETC ONLY IN MIDDLE THIRD OF SLAB OR BEAM DEPTH, AND SPACED AT 3 X DIAMETER CENTRES MINIMUM. DO NOT CUT REINFORCEMENT AT PENETRATIONS WITHOUT APPROVAL.
16. AN APPROVED SHRINKAGE COMPENSATING AGENT SHALL BE USED AT ALL INFILL INSITU CONCRETE BETWEEN PRECAST WALL PANELS.

## REINFORCEMENT

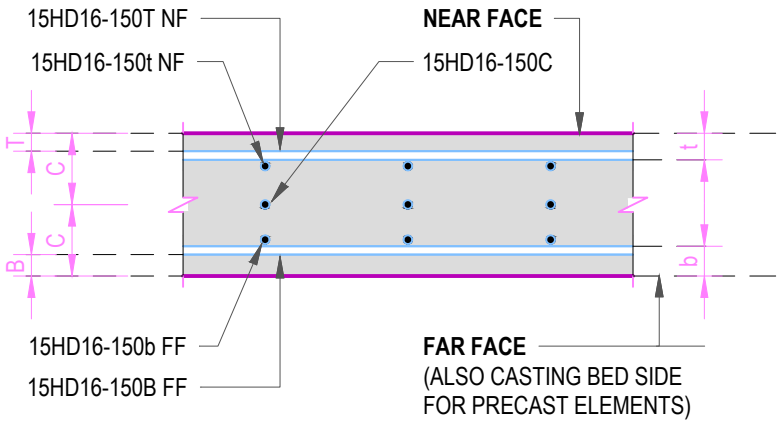
1. REINFORCING DESIGNATION AS FOLLOWS



SYMBOL	TYPE
R	PLAIN BARS GRADE 300E TO AS/NZS 4671 (300MPa)
HR	PLAIN BARS GRADE 500E TO AS/NZS 4671 (500MPa)
D	DEFORMED BARS GRADE 300E TO AS/NZS 4671 (300MPa)
HD	DEFORMED BARS GRADE 500E TO AS/NZS 4671 (500MPa)
M	MESH TO AS/NZS 4671 (500MPa)
RB	REIDBAR GRADE 500E OR AS/NZS 4671 AND AS 1302 (500MPa)

LOCATIONS (IN RELATION TO INTERNAL & EXTERNAL CONCRETE COVERS)	
T	TOP OUTER (NEAR FACE)
t	TOP INNER (NEAR FACE)
C	CENTRAL
b	BOTTOM INNER (FAR FACE)
B	BOTTOM OUTER (FAR FACE)
NF	NEAR FACE
FF	FAR FACE
EW	EACH WAY
EF	EACH FACE

### EXAMPLE FOR LOCATIONS



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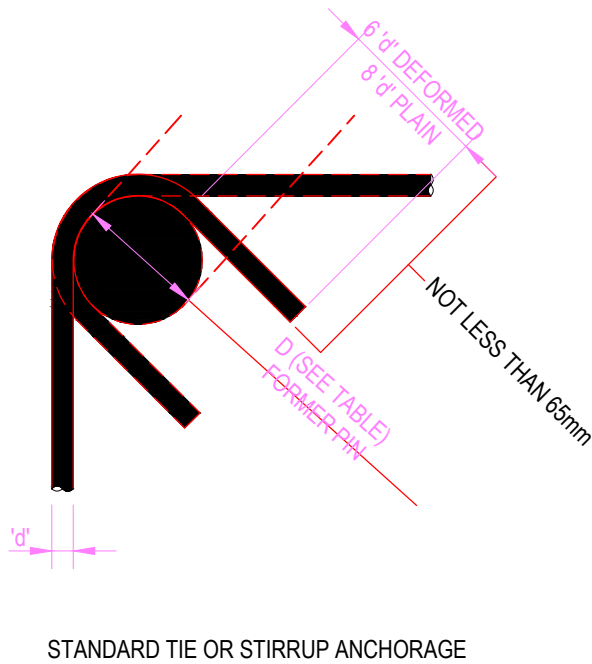
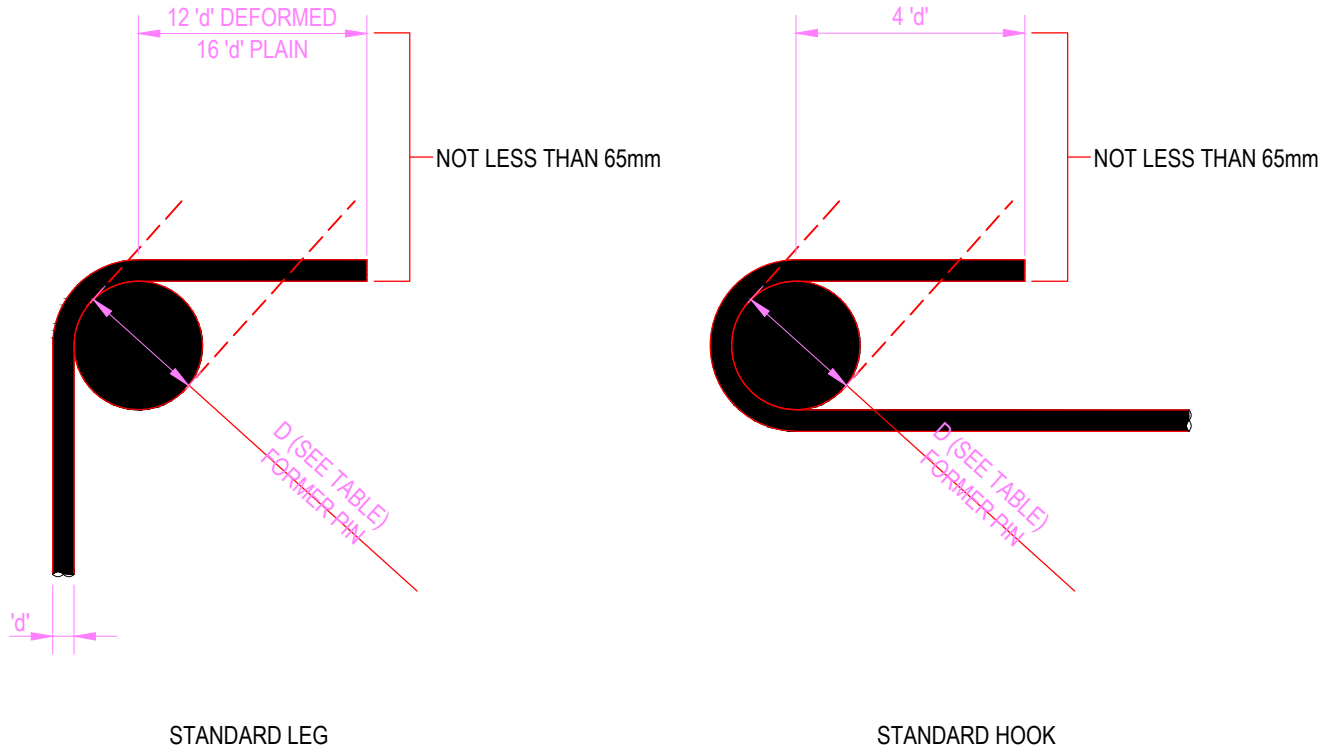
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A25

2. NO REINFORCEMENT SPLICES SHALL BE MADE OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
3. REINFORCEMENT LAPS IN CONCRETE TO COMPLY WITH THE TABLE BELOW EXCEPT WHERE SPECIFIED OTHERWISE: SPLICE LAP LENGTHS ARE FOR DEFORMED BARS (in mm.)

BAR SIZE	GRADE	
	D	HD
6	300	340
10	340	560
12	410	675
16	540	900
20	670	1125
25	840	1400
32	1080	1970

4. SPLICE LAP LENGTHS SHALL BE INCREASED BY 30% FOR TOP REINFORCEMENT WHERE MORE THAN 300mm OF CONCRETE IS CAST BELOW THE BAR. THE DEVELOPMENT OF PLAIN BARS SHALL RELY ON HOOKS.
5. DEVELOPMENT OF PLAIN BARS SHALL RELY ON HOOKS.
6. STAGGER LAPS WHERE POSSIBLE. WHERE LAPS ARE NOT STAGGERED INCREASE LAP LENGTHS BY 30%.
7. MINIMUM LAP FOR FABRIC SHALL BE ONE MESH BAR SPACING PLUS 25mm.
8. WELDING OR RE-BENDING OF REINFORCEMENT IS NOT PERMITTED UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER.
9. ALL REINFORCING BARS USED SHALL BE MICRO-ALLOYED BARS UNLESS NOTED OTHERWISE. SECURE REINFORCEMENT IN POSITION AGAINST DISPLACEMENT AND MAINTAIN SPECIFIED CLEAR CONCRETE COVER TO REINFORCEMENT (INCLUDING FITMENTS) BY APPROVED CHAIRS, LIGATURES OR TIES. DO NOT PLACE REINFORCEMENT AFTER CONCRETING HAS COMMENCED. PROVIDE ADEQUATE SUPPORT TO PREVENT DISPLACEMENT OF REINFORCING BY WORKMEN OR EQUIPMENT DURING FIXING AND SUBSEQUENT CONCRETE PLACEMENT WITHIN FOLLOWING TOLERANCES
10. DEVIATION OF REINFORCEMENT FROM ITS SPECIFIED POSITION SHALL NOT EXCEED FOLLOWING (mm):
- (a) FOR POSITIONS CONTROLLED BY COVER:
- IN BEAMS, SLABS, COLUMNS, AND WALLS
  - IN SLABS ON GROUND
  - IN FOOTINGS CAST IN GROUND
- WHERE NEGATIVE VALUE INDICATES A DECREASE IN SPECIFIED COVER AND POSITIVE VALUE INDICATES AN INCREASE IN SPECIFIED
- (b) FOR POSITIONS NOT CONTROLLED BY COVER:
- LOCATIONS ON TENDONS ON A PROFILE
  - POSITIONS OF ENDS OF REINFORCEMENT
- SPACING OF BARS IN WALLS AND SLABS AND OF FITMENTS IN BEAMS AND COLUMNS - 10% OF SPACING, OR



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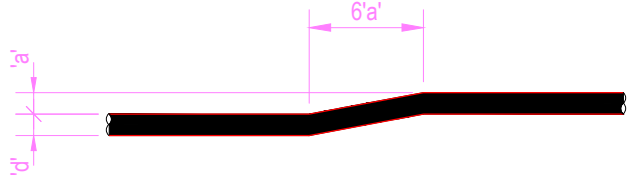
ALL DIMENSIONS ARE FROM OUTSIDE TO OUTSIDE OF BARS EXCEPT RADII WHICH ARE INSIDE TO INSIDE OF BAR. 'd' DENOTES NOMINAL BAR DIAMETER.

MINIMUM FORMER PIN DIAMETER D (mm)			
BAR SIZE	MAIN STEEL GRADE 300 & 500	STIRRUPS AND TIES GRADE 300 & 500	
		PLAIN ROUND	DEFORMED
6	30	12	24
10	50	20	40
12	60	24	48
16	80	32	64
20	100	40	80
24	144		
32	192		
40	240		

NOTE:  
FOR STIRRUPS AND TIES, WHERE THE MAIN BAR SIZE IS GREATER THAN THE MINIMUM FORMER PIN DIAMETER, THE MAIN BAR SIZE WILL GOVERN.

STANDARD BAR CRANK

WHEN MAIN BARS ARE OFFSET, i.e. FOR CRANKED LAPS, THE SLOPE OF THE INCLINED PORTION OF THE BAR SHALL NOT EXCEED 1 IN 6, THUS:



STRUCTURAL STEEL

- 1. ALL STEEL IN THIS CONTRACT IS CONSTRUCTION CATEGORY 2 IN ACCORDANCE WITH NZS 5131.
- 2. THE STEEL FABRICATOR SHALL HAVE SCNZ STEEL FABRICATION CERTIFICATION TO THE REQUIRED CONSTRUCTION CATEGORY AND MEET THE REQUIREMENTS UNDER THIS SCHEME.
- 3. STEEL MEMBERS SHALL BE THE FOLLOWING GRADES UNLESS NOTED OTHERWISE.

MEMBER	GRADE
UC,UB, PFC,	300 PLUS
EA, UA	300
RHS/SHS	350LO

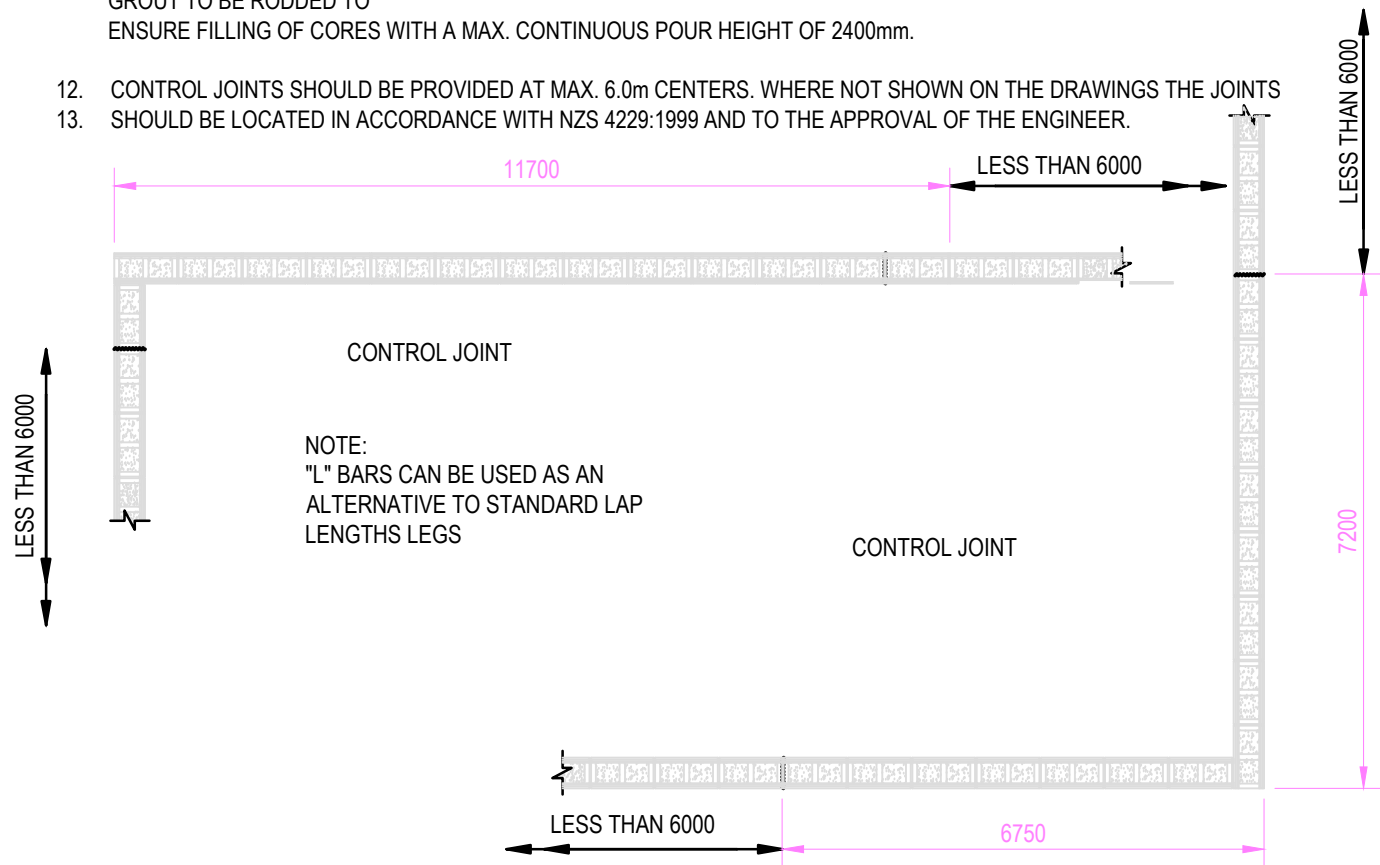
- 2. ALL PLATES AND CLEATS SHALL BE GRADE 350 UNLESS NOTED OTHERWISE.
- 3. CORROSION PROTECTION:  
ALL EXTERNAL EXPOSED STEELWORK TO BE HOT DIP GALVANISED TO HDG 600. REFER TO STRUCTURAL SPECIFICATION. INTERNAL COVERED STEEL TO BE PAINTED WITH TWO COAT OF ZINC RICH PRIMER.
- 4. BOLTING:  
UNLESS OTHERWISE SHOWN ON THE DRAWINGS BOLTS SHALL BE GRADE 8.8/S COMPLYING WITH NZS 3404. THREADS MAY BE INCLUDED IN SHEAR PLANES.
- 5. USE BOLT LENGTHS SO THAT PROJECTION BEYOND NUT IS AT LEAST TWO THREADS, AND NOT MORE THAN 10mm.
- 6. USE BOLTS WITH THREADS IN COMPLIANCE WITH AS1275. BOLTS OF STRENGTH GRADE 4.6 TO BE COMMERCIAL GRADE BOLTS TO AS1111 AND 1112. BOLTS OF STRENGTH GRADE 8.8 TO BE HIGH STRENGTH STRUCTURAL BOLTS, NUTS AND WASHERS TO AS/NZS1252. MECHANICAL PROPERTIES OF BOLTS, NUTS, SCREWS AND STUDS TO COMPLY WITH AS/NZS4291.2. WASHERS TO COMPLY WITH AS1237. TIGHTENING PROCEDURES TO COMPLY WITH NZS3404.
- 7. MILL CERTIFICATES SHALL BE PROVIDED TO THE ENGINEER FOR ALL STEELWORK USED IN THIS CONTRACT.
- 8. DRILL HOLES FULL SIZE OR REAM TO FULL SIZE AFTER SUB-DRILLING OR SUB-PUNCHING. SUB-DRILLED OR SUB-PUNCHED HOLES TO BE AT LEAST 3mm UNDERSIZE. FLAME CUTTING OF HOLES IS NOT PERMITTED.
- 9. BOLT HOLE SIZE TO BE:  
- BOLT DIAMETER PLUS 2mm FOR STEEL TO STEEL CONNECTIONS.  
- BOLT DIAMETER PLUS ALLOWANCE IN ACCORDANCE WITH PROPRIETARY CHEMICAL GROUT REQUIREMENT FOR STEEL TO CONCRETE CONNECTIONS.  
- BOLT DIAMETER PLUS 6mm FOR HOLDING DOWN BOLTS OR IN ACCORDANCE WITH PROPRIETARY CHEMICAL GROUT REQUIREMENT IF
- 10. WELDING:  
WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF NZS 3404 AND NZS / AS 1554.1 UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS. ALL WELDS SHALL BE CATEGORY SP (STRUCTURAL PURPOSE) E48XX/W50X 5mm FWAR IN ACCORDANCE WITH NZS / AS 1554.1 UNLESS NOTED OTHERWISE.
- 11. STEEL FABRICATOR SHALL PROVIDE THE ENGINEER WITH ONE COPY OF THEIR WELD PROCEDURE PRIOR TO COMMENCING WELDING.
- 12. PREPARE WORKSHOP DRAWINGS AND SUBMIT TWO COPIES OF EACH FOR ENGINEER REVIEW OF GENERAL COMPLIANCE WITH DESIGN.
- 13. SHOP DRAWINGS TO SHOW RELEVANT DETAILS OF EACH ASSEMBLY, COMPONENT AND CONNECTION, TOGETHER WITH INFORMATION RELATIVE TO FABRICATION, SURFACE TREATMENT, AND ERECTION, INCLUDING IDENTIFICATION, STEEL TYPE AND GRADE, DIMENSIONS OF ITEMS, LOCATION, TYPE AND SIZE OF WELDS OR BOLTS, WELD CATEGORIES AND BOLT CATEGORIES, SURFACE PREPARATION METHODS AND COATING SYSTEM, VENT / DRAIN HOLES FOR HOT DIP GALVANISING, PROPOSED JOINTS IN STEEL MEMBERS, ETC.
- 14. DO NOT COMMENCE FABRICATION UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED. ALLOW 5 WORKING DAYS FOR ENGINEERS REVIEW.
- 15. WORKMANSHIP AND MATERIALS TO COMPLY WITH NZS3404 AND AS/NZS1554.

FOUNDATION

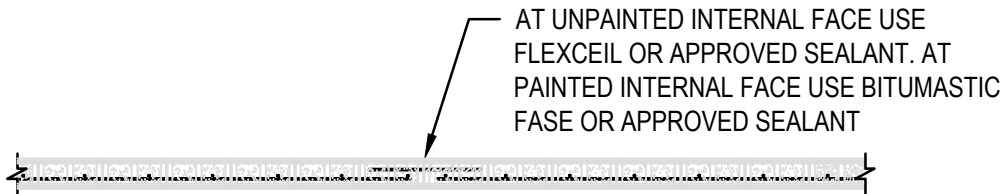
- 1. DRAWINGS AND SPECIFICATIONS TO BE READ IN CONJUNCTION WITH SITE GEOTECHNICAL INFORMATION..
- 2. FOUNDATION DESIGN IS BASED ON 100kPA BEARING CAPACITY AND DIRECTLY BEARING ON A MINIMUM OF 400mm COMPACTED GRANULAR HARDFILL. THE BASE OF ALL FOOTING EXCAVATIONS SHALL BE WELL COMPACTED PRIOR TO CONCRETING.
- 3. ALL SILTS AND OBVIOUSLY LOOSE LAYERS SHALL BE REMOVED 600mm BELOW EXISTING GROUND LEVEL AND BACKFILLED WITH WELL COMPACTED HARDFILL.

MASONRY

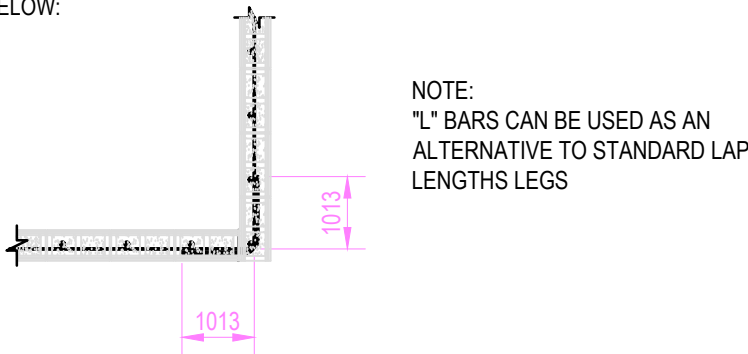
- 1. ALL MASONRY IS LAID RUNNING BOND CONFIGURATION UNLESS NOTED OTHERWISE.
- 2. ALL MASONRY WITHIN THE BUILDING STRUCTURE IS GRADE B AS DEFINED IN NZS 4230.
- 3. CONCRETE MASONRY BLOCKS SHALL HAVE A COMPRESSIVE STRENGTH OF 17.5MPa AND CONFORM TO NZS 3102 UNLESS NOTED OTHERWISE. DENSITY SHALL BE > 1750kg/m.
- 5. MORTAR SHALL COMPLY WITH THE REQUIREMENTS OF NZS 4210. COMPRESSIVE STRENGTH OF MORTAR SHALL BE NOT LESS THAN 17.5MPa.
- 7. ALL CORES SHALL BE GROUT FILLED (17.5MPa) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 8. CLEAN OUT OPENINGS TO BE PROVIDED AT BOTTOM COURSE (1.2m CENTERS MAX.). MORTAR JOINTS TO BE
- 9.
- 10. 10mm THICK WITH BLOCKS FULLY BEDDED AND PERPENDA FILLED. JOINTS TO BE TOOLED AT EXPOSED OR RENDERED SURFACES. BEFORE PLACING VERTICAL
- 11. REINFORCEMENT CORES ARE TO BE CLEANED OF ALL MORTAR FINES AND DROPPINGS THOUGH CLEAN OUT OPENINGS. AFTER INSPECTION THE FACE SHELLS ARE TO BE MORTARED IN AT CLEAN OUT PORTS AND BRACED PRIOR TO GROUTING. GROUT TO BE RODDED TO ENSURE FILLING OF CORES WITH A MAX. CONTINUOUS POUR HEIGHT OF 2400mm.
- 12. CONTROL JOINTS SHOULD BE PROVIDED AT MAX. 6.0m CENTERS. WHERE NOT SHOWN ON THE DRAWINGS THE JOINTS
- 13. SHOULD BE LOCATED IN ACCORDANCE WITH NZS 4229:1999 AND TO THE APPROVAL OF THE ENGINEER.



8. BLOCK WORK CONTROL JOINTS:



9. ALL BLOCK WORK HORIZONTAL REINFORCEMENT MUST LAP ADEQUATELY AT CORNERS AND JUNCTIONS AS INDICATED BELOW:



10. WHERE MASONRY IS TO BE CONSTRUCTED ON SUSPENDE CONCRETE WORKS WITHOUT A CORRESPONDING WALL UNDER THE CONCRETE MUST BR FULLY PROPPED BEFORE COMMENCEMENT OF THIS MASONRY UNLESS NOTED OTHERWISE.

CHASING OF LOAD BEARING MASONRY UNITS IS NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

NON-LOAD BEARING WALLS ARE TO HAVE 12mm COMPRESSIBLE JOINT BETWEEN TOP OF WALL AND UNDERSIDE OF SUSPENDE SLABS (OR BEAM OVER) AND WHERE THEY ABUT OTHER STRUCTURAL ELEMENTS (e.g. COLUMNS).

REINFORCEMENT LAPS IN BLOCK WORK TO COMPLY WITH TABLE BELOW:

BAR SIZE	MIN.	10	12	16	20	25
D	450	480	480	640	800	960
HD	-	700	840	1120	1400	1750

ARCHITECTURAL CONSULTANTS:



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## **PAINTING**

### **General**

All work generally shall be carried out in accordance with the requirements of AS/NZS 2312 The Painting of Buildings

### **Drying Times.**

The contractor shall allow the following minimum drying times for paints:

Undercoats: 24 hours prior to enamel finishing coat being applied.

Enamel: 24 hours prior to the application of the second coat.

### **Number of Coats**

Unless specified as one coat or two coat systems, each paint system consists of not less than three coats.

### **Substrate Preparation**

All finishes shall be sanded using appropriate grade sandpaper's ensuring that all raised imperfections are removed. Sanding of all surfaces shall also occur during subsequent coats. Each coat is to be allowed to dry and be rubbed down with glass or garnet paper of a suitable grit before the next coat is applied. All paint is to be applied by brush or roller. Where paint is applied by brush it is to be laid off so that no brush marks show.

### **Priming Before Fixing**

Apply one coat of wood primer (including end grain) to the back of external fascia boards, timber door and window frames, bottoms of external doors, associated trims and glazing beads before fixing in position.

### **Paint Application**

Apply the first coat immediately after substrate preparation and before contamination of the substrate can occur. Ensure each coat of paint or clear finish is uniform in colour, gloss, thickness and texture, and free of runs, sags, blisters, or other discontinuity.

### **Repair of Galvanising**

Where galvanised surfaces have been subsequently welded, prime the affected area with zinc rich organic binder.

### **Concrete Surfaces**

Concrete surfaces shall be sealed with two coats of an approved latex (water based) sealer as directed then 2 coats of finishing coat.

### **Galvanised Steel.**

Unpainted new or old galvanised steel is to be treated with acid etching agent GALVPREP or similar approved material, using abrasive plastic pads such as Scotch-Brite or similar. Do not use steel wool with GALV-PREP. New galvanised steel is to be pre-treated a minimum of twenty four hours prior to the application of the first coat of paint. The surface should be a light grey in colour, and evenly wetted with the agent. Wash thoroughly with water and when dry apply two coats of acrylic paint (or other material approved by the Project Supervisor allowing at least two hours between coats.

**Note:** The discharge of toxic fluids and other wastes, etc, into the sewerage or drainage system, is strictly prohibited.

### **Colour Scheme**

### **Ceiling**

Paint type - latex (water based) paint with a flat finish to mask surface imperfections

Colour Scheme - To be selected and approved by the Client

### **Concrete floor surfaces**

Paint type - latex (water based) sealer with concrete floor paint finish

Colour scheme - To be selected and approved by the Client

### **Fascia and Soffit**

Paint type - latex (water based) paint with a full gloss finish

Colour Scheme - To be selected and approved by the Client

### **Paint type**

All paint products shall be Taubmans or an equivalent quality product approved by the Project Supervisor.

## **FLOOR FINISHES**

Interior : 300 x 300 non-slip ceramic tile finish.

Verandah/Ramps : Concrete floor broom finish

ARCHITECTURAL CONSULTANTS:



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PROJECT TITLE:

MINISTRY OF JUSTICE COURTS  
AND ADMINISTRATION  
**"PROPOSED JUDGES RESIDENCE HOUSE"**  
at Salelologa, Savaii

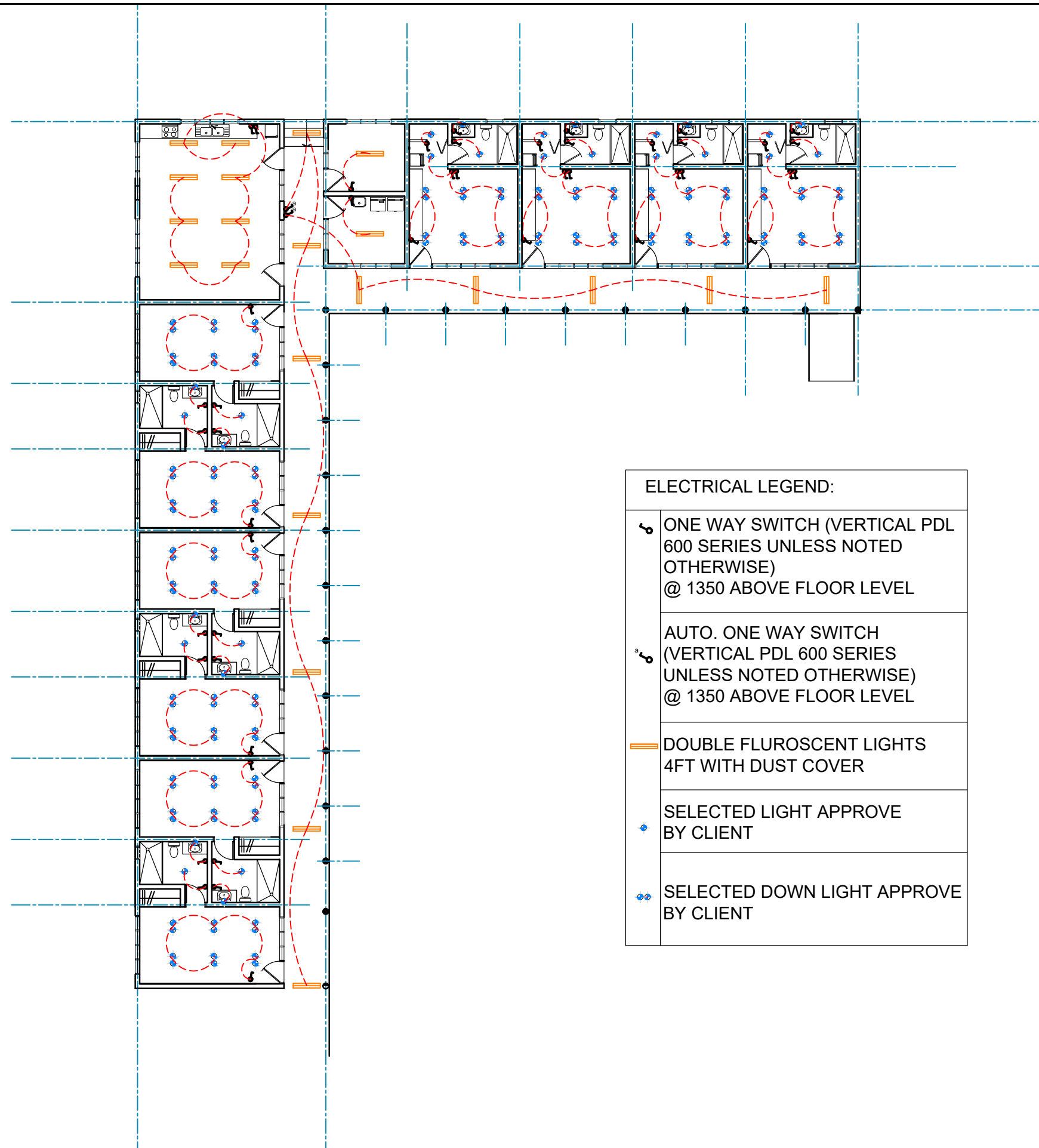







DRAWING TITLE:

**PAINTING NOTES**

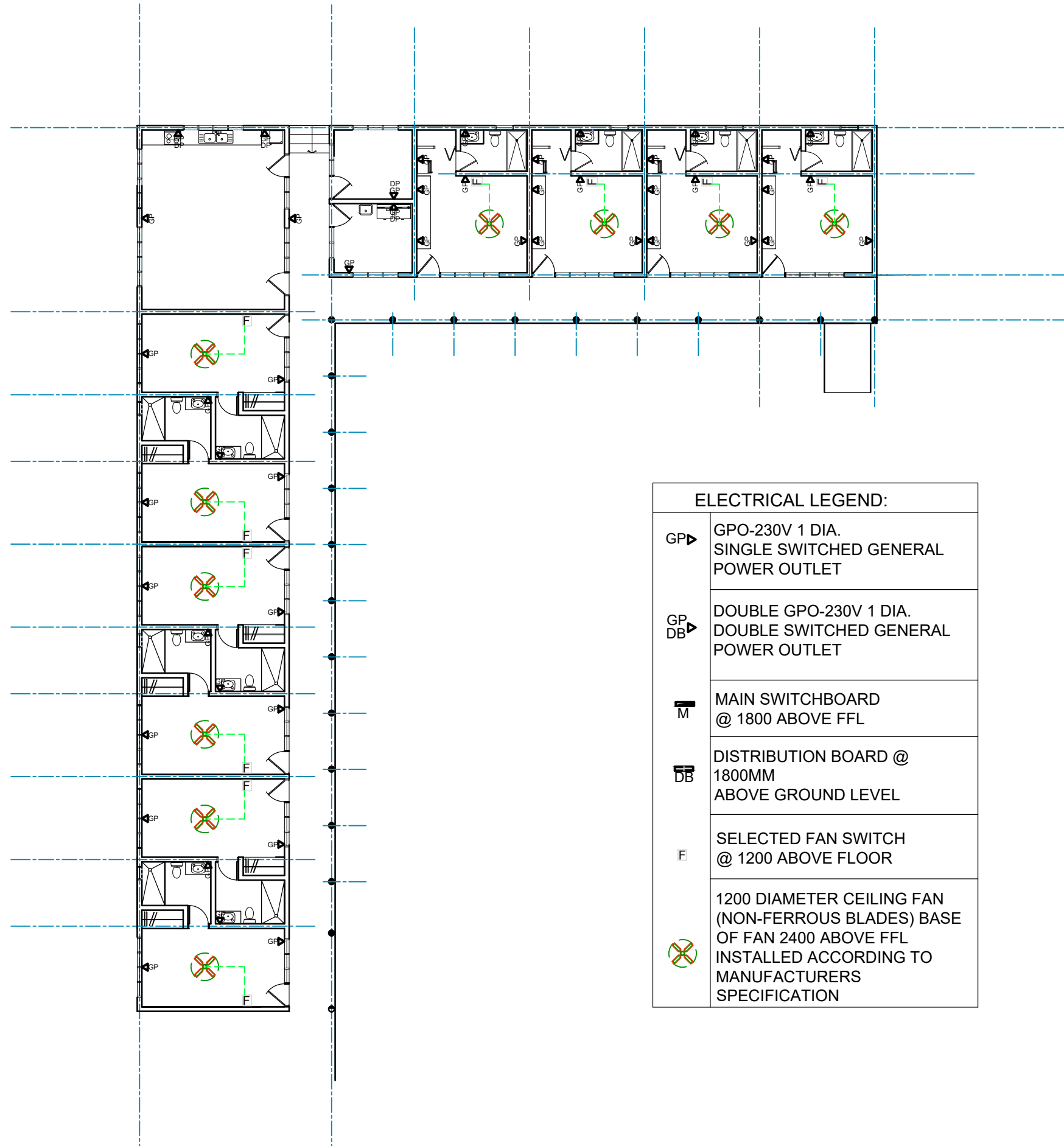
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DRAWN:	VeS	DATE:	25th.11. 2022
CHECKED:	V/S	PRINT ISSUED:	19th.01. 2024
SCALE:	(A3)	SHEET No:	A29





ELECTRICAL LEGEND:	
	ONE WAY SWITCH (VERTICAL PDL 600 SERIES UNLESS NOTED OTHERWISE) @ 1350 ABOVE FLOOR LEVEL
	AUTO. ONE WAY SWITCH (VERTICAL PDL 600 SERIES UNLESS NOTED OTHERWISE) @ 1350 ABOVE FLOOR LEVEL
	DOUBLE FLUORESCENT LIGHTS 4FT WITH DUST COVER
	SELECTED LIGHT APPROVE BY CLIENT
	SELECTED DOWN LIGHT APPROVE BY CLIENT





#### ELECTRICAL LEGEND:

GP▶

GPO-230V 1 DIA.  
SINGLE SWITCHED GENERAL  
POWER OUTLET

GP DB▶

DOUBLE GPO-230V 1 DIA.  
DOUBLE SWITCHED GENERAL  
POWER OUTLET

M

MAIN SWITCHBOARD  
@ 1800 ABOVE FFL

DB

DISTRIBUTION BOARD @  
1800MM  
ABOVE GROUND LEVEL

F

SELECTED FAN SWITCH  
@ 1200 ABOVE FLOOR



1200 DIAMETER CEILING FAN  
(NON-FERROUS BLADES) BASE  
OF FAN 2400 ABOVE FFL  
INSTALLED ACCORDING TO  
MANUFACTURERS  
SPECIFICATION

ARCHITECTURAL CONSULTANTS:



PROJECT TITLE:

MINISTRY OF JUSTICE COURTS  
AND ADMINISTRATION  
**"PROPOSED JUDGES RESIDENCE HOUSE"**  
at Salelologa, Savaii

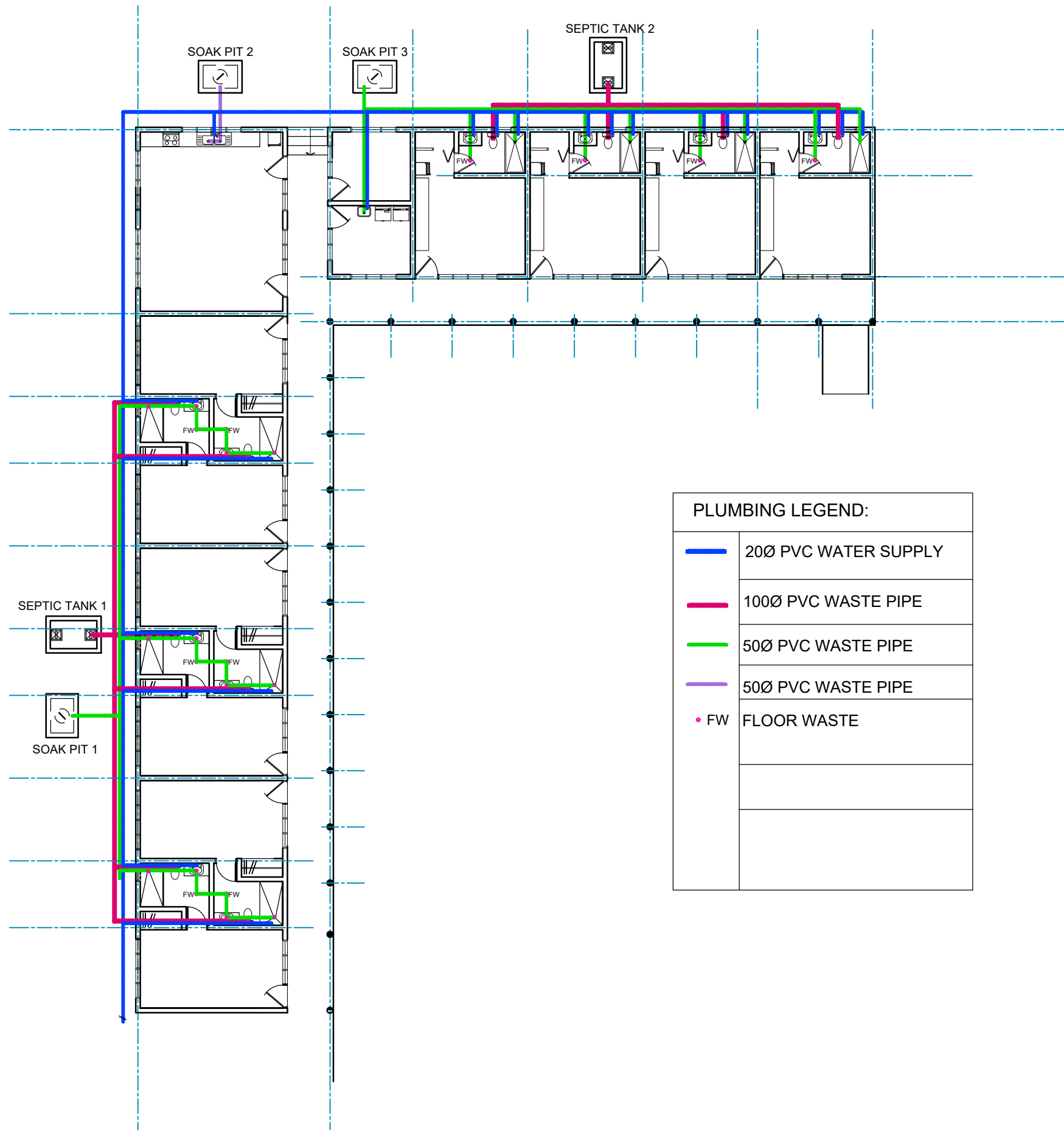


DRAWING TITLE:

**ELECTRICAL LAYOUT PLAN  
SHOWING POWER OUTLETS / FANS**

DESIGNED:	VeS	DATE:	02.02. 2024
DRAWN:	VeS	DATE:	02.02. 2024
CHECKED:	V/S	PRINT ISSUED:	02.02. 2024
SCALE:	1 : 200(A3)	SHEET No:	E02

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PLUMBING LEGEND:

- |  |                      |
|--|----------------------|
|  | 200 PVC WATER SUPPLY |
|  | 100 PVC WASTE PIPE   |
|  | 50 PVC WASTE PIPE    |
|  | 50 PVC WASTE PIPE    |
|  | FLOOR WASTE          |

ARCHITECTURAL CONSULTANTS:



PROJECT TITLE:

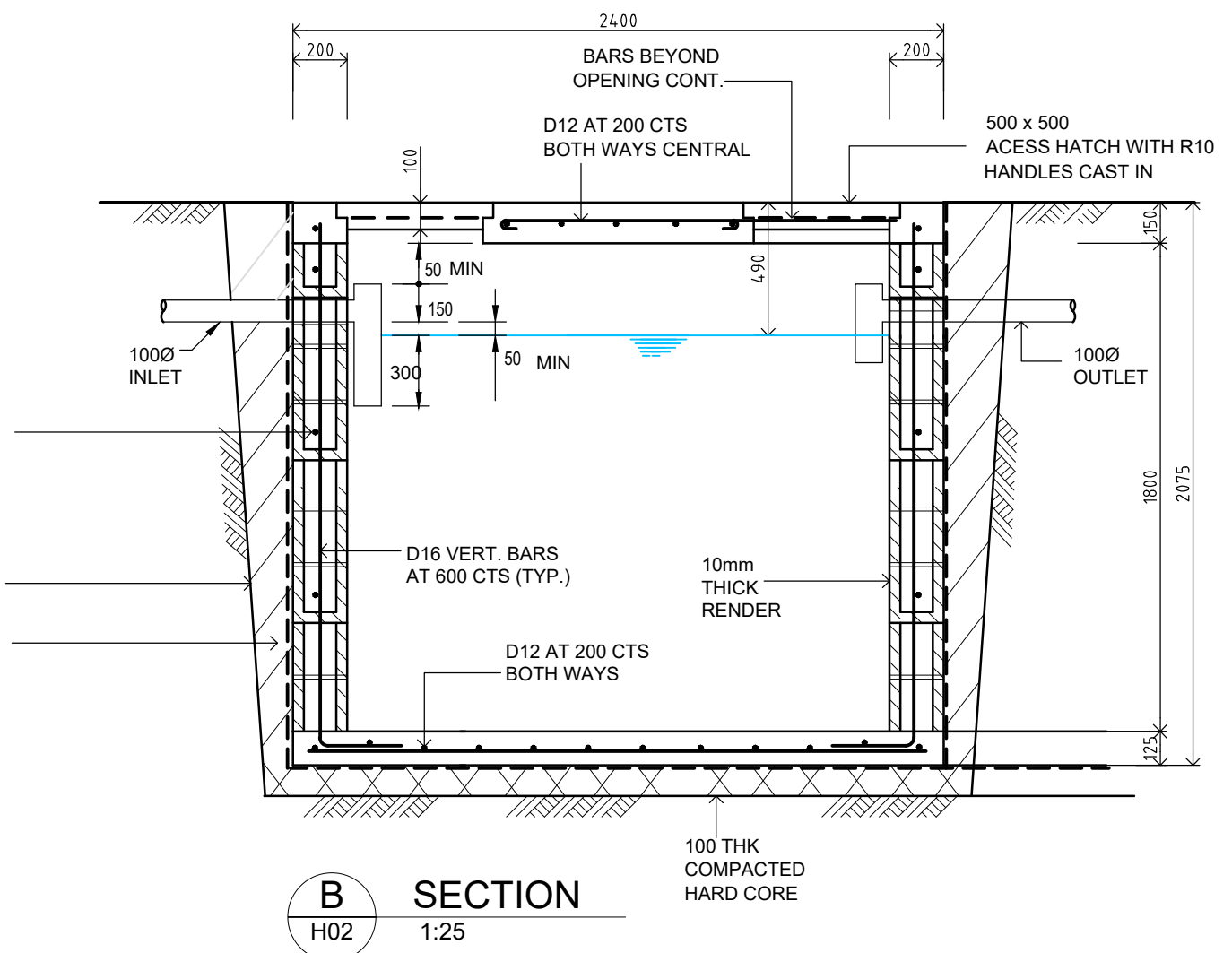
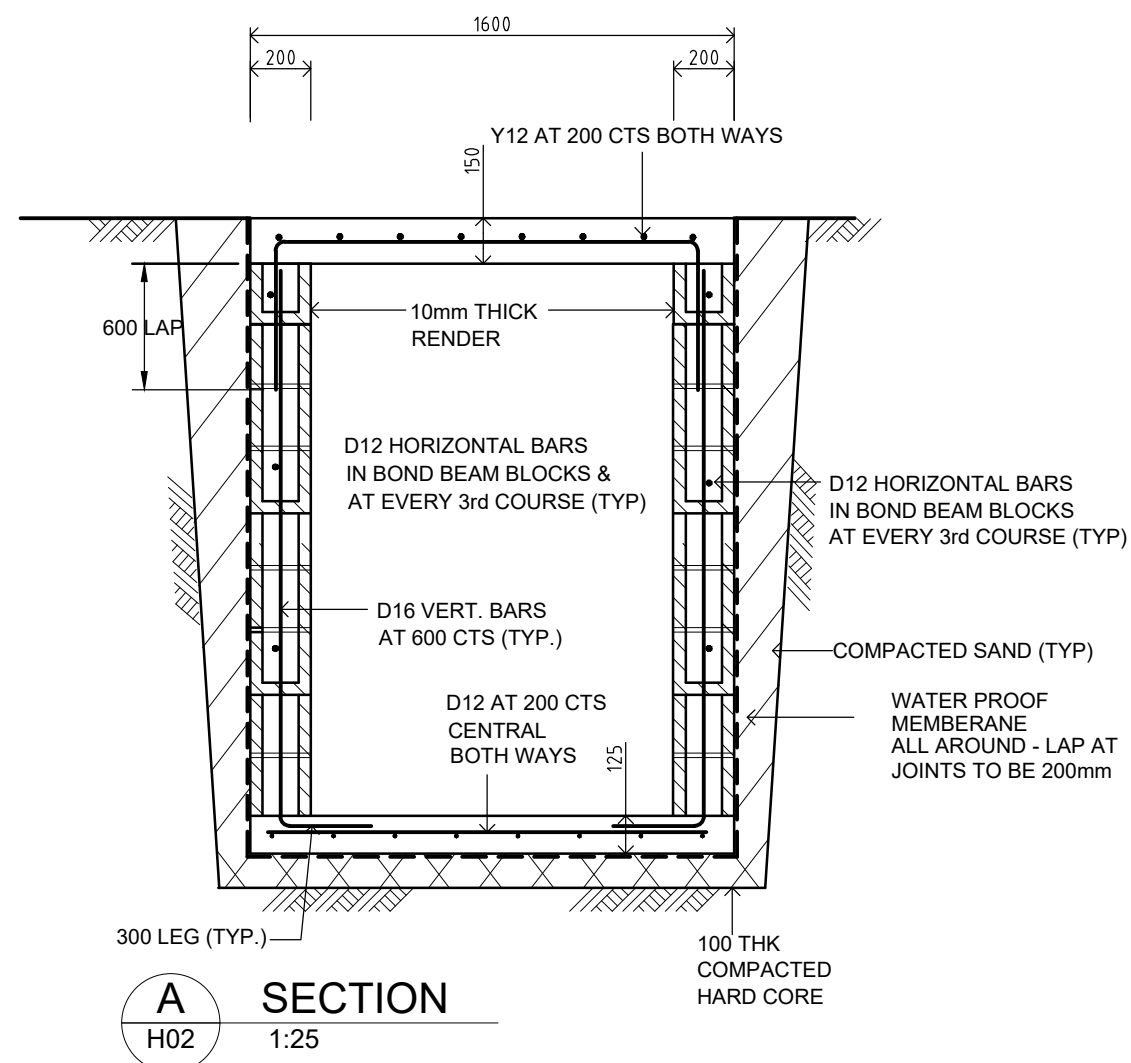
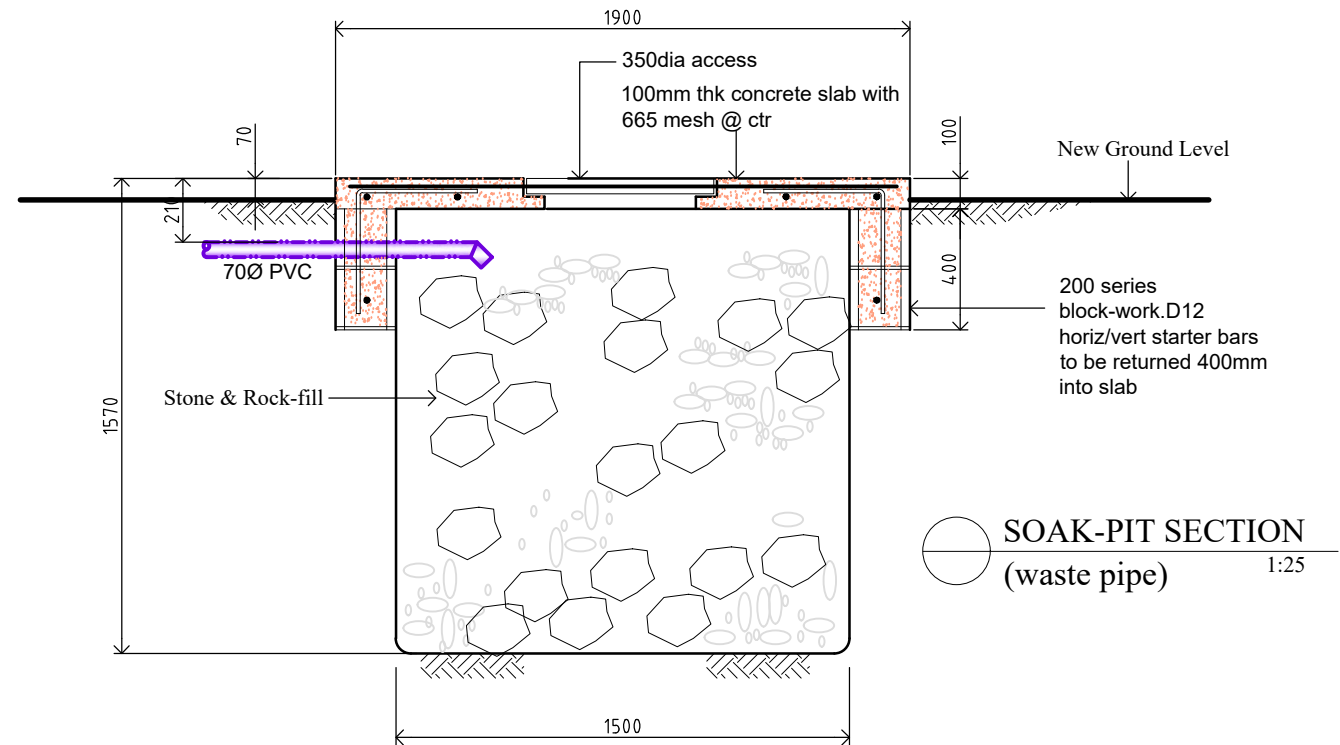
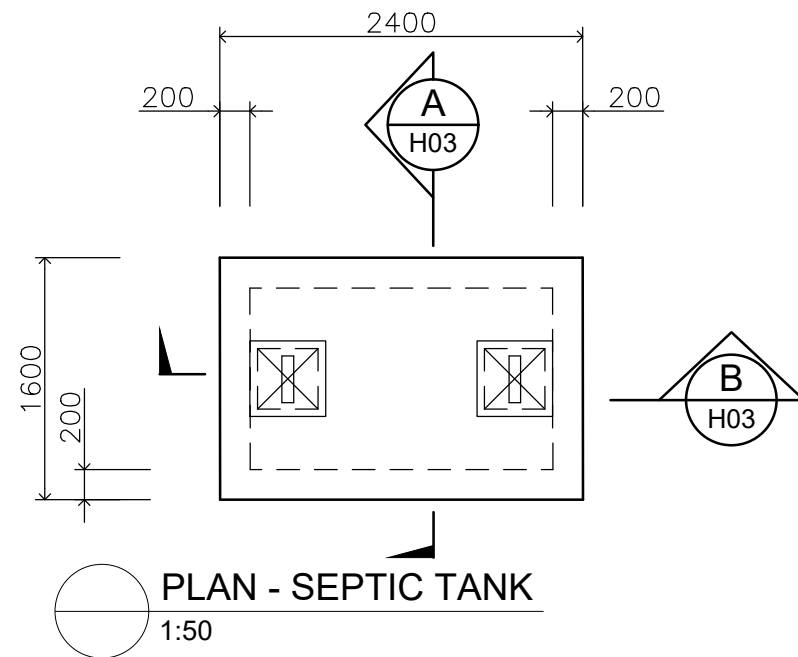
MINISTRY OF JUSTICE COURTS  
AND ADMINISTRATION  
**"PROPOSED JUDGES RESIDENCE HOUSE"**  
at Salelologa, Savaii



DRAWING TITLE:

**PLUMBING LAYOUT PLAN**

DESIGNED:	VeS	DATE:	02.02. 2024
DRAWN:	VeS	DATE:	02.02. 2024
CHECKED:	V/S	PRINT ISSUED:	02.02. 2024
SCALE:	1 : 200(A3)	SHEET No:	H01



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MINISTRY OF JUSTICE COURTS  
AND ADMINISTRATION  
"PROPOSED JUDGES RESIDENCE HOUSE"  
at Salelologa, Savaii

DRAWING TITLE:

SEPTIC TANK / SOAK-PIT  
DETAILS

DESIGNED:

VeS

DRAWN:

VeS

CHECKED:

V/S

SCALE:

as shown

DATE:

02.02. 2024

DATE:

02.02. 2024

PRINT ISSUED:

02.02. 2024

SHEET No:

H02