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Paper size:	A3-LV	
Project Status	Schematic Design	
Project Date	18/08/2022	
Notes		

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR  
QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)

CLIENT:

DEPARTMENT OF AGRICULTURE AND AGRIFOOD,  
BRUNEI DARUSSALAM

ADDRESS:

N/A

DRAWING NOTES

1.

The following designs were developed up to Working Drawing (with pre-approval from ABCi for building design/TBC) - and are considered as sufficient for Authority Submission.
2.

No sites were allocated for the units at this stage. Therefore, once a site is allocated, Applicant(s) will need to appoint Qualified Person(s) to include the additional drawing information.
3.

These changes and/or additional information will need to be included in the relevant drawings as per required by the Authority.
4.

These changes and/or additional information will be subjected to the approval of Client, Department of Agriculture and Agrifood, Brunei Darussalam.
5.

All development applications for the units will require a Qualified Person(s) to be appointed for the process of applying for:

•

Planning Approval (including Infrastructure Submission –applicable for 1 unit development)

•

Building Approval

•

Permit to Start Construction

•

Occupational Permit

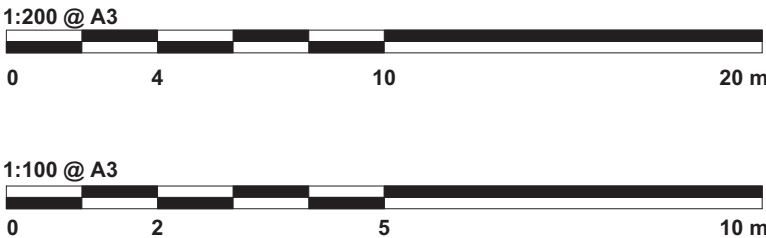
ABBREVIATIONS

RL	Roofline	AW	Aluminum Awning Window
DP	Downpipe	LV	Aluminum Louvre Window
FT	Floor Trap	FG	Fixed Glass
GT	Gully Trap	SHR	Shower
MH	Manhole	NTS	Not to Scale
FFL	Final Floor Level	APPROX	Approximate
CL	Ceiling Level	AVG	Average
T.B.C	To Be Confirmed	R.C	Reinforced concrete
NGL	Natural Ground Level	EXT	Existing
OHC	Overhead Cupboard	QTY	Quantity
WMS	Washing Machine Space	RM	Room
W.I.R	Walk-in-Robe	BDRM	Bedroom
SGD	Sliding Glass Door	SPEC	Specification
SW	Aluminum Sliding Window	TYP	Typical
DH	Aluminum Double Hung Window		

SYMBOLS

	DOOR TAG		SECTION MARKER
	WINDOW TAG		NORTH POINT & KIBLAT
	ROOM TAG		
	GRID MARKER		

GRAPHICAL SCALE BAR



Designed By	KHS	
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Scale	1 : 20	
Date	08/31/22	
Project No	Sheet No	Rev.
PR120	1	

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Paper size:	A3-LV
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Architect's Signature



Khalid Haji Sirat

No. 6517/pmp/2016-2020

Malaysia

Registration No: 004158r

Client Name and Approved by:

Department of Agriculture & Agrifood, BD

Project Name And Address

PROPOSED NEW 1 UNIT  
STANDARD DESIGN OF FARM  
LABOUR QUARTERS, BRUNEI  
DARUSSALAM (FOR 2  
PERSONS)

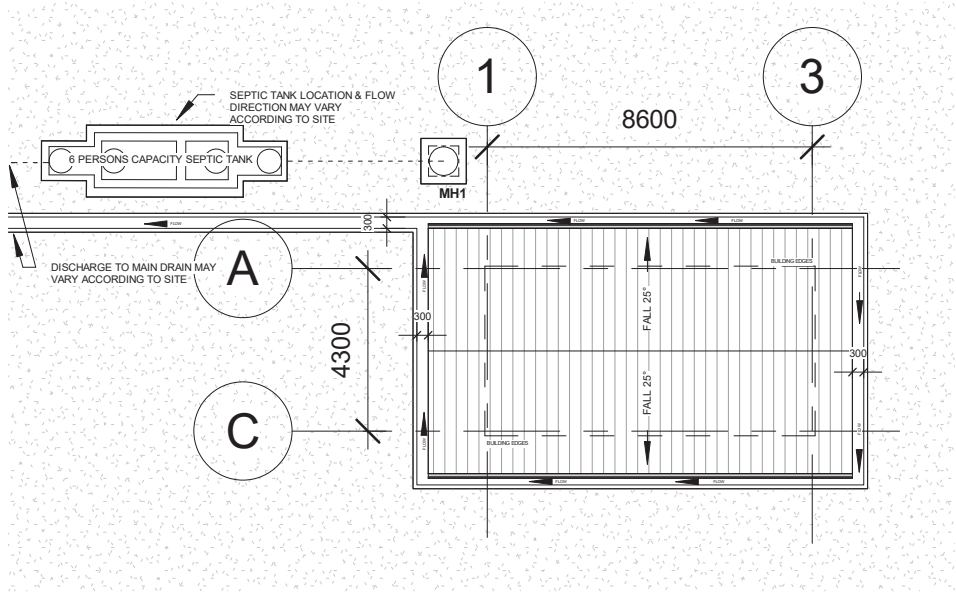
Drawing Name

DRAWING LIST & SITE  
DEVELOPMENT PLAN

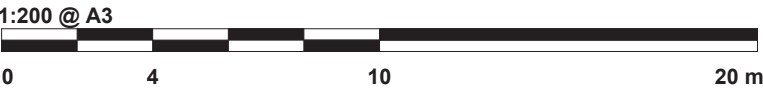
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Scale	1 : 200
Date	08/16/22

Project No	Sheet No	Rev.
PR120	A1	

DRAWING LIST				
No.	Sheet Number	Sheet Name	Sheet Issue Date	Sheet Scale
1	1	COVER PAGE & DRAWING NOTES	08/31/22	1 : 20
2	A1	DRAWING LIST & SITE DEVELOPMENT PLAN	08/16/22	1 : 200
4	B1	GROUND FLOOR & ROOF PLAN	08/16/22	1 : 100
5	C1	GROUND FLOOR CEILING PLAN	08/16/22	1 : 100
6	D1	ELEVATIONS	08/16/22	1 : 100
7	E1	SECTION A-A & SECTION B-B	08/16/22	1 : 100
8	F1	WINDOW SCHEDULE	08/25/22	1 : 50
9	F2	DOOR & IRONMONGERY SCHEDULE	09/02/22	1 : 50
10	F3	VENTILATION, MATERIAL, SANITARY & FITTING SCHEDULES	08/25/22	As indicated
11	G1	TB & SHOE WASHING AREA DETAILS	08/25/22	As indicated
12	G2	KITCHEN DETAILS	08/30/22	1 : 50
13	G3	DOOR JAMB, TYPICAL DPC, GUTTER AND SURFACE DRAIN DETAILS	08/26/22	As indicated
14	K	ELECTRICAL LAYOUT	09/02/22	1 : 100
15	P1	ROOM PLAN & FURNITURE SCHEDULE	08/31/22	As indicated



**SITE DEVELOPMENT**  
**SCALE 1:200**



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Project Name And Address

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LABOUR QUARTERS, BRUNEI  
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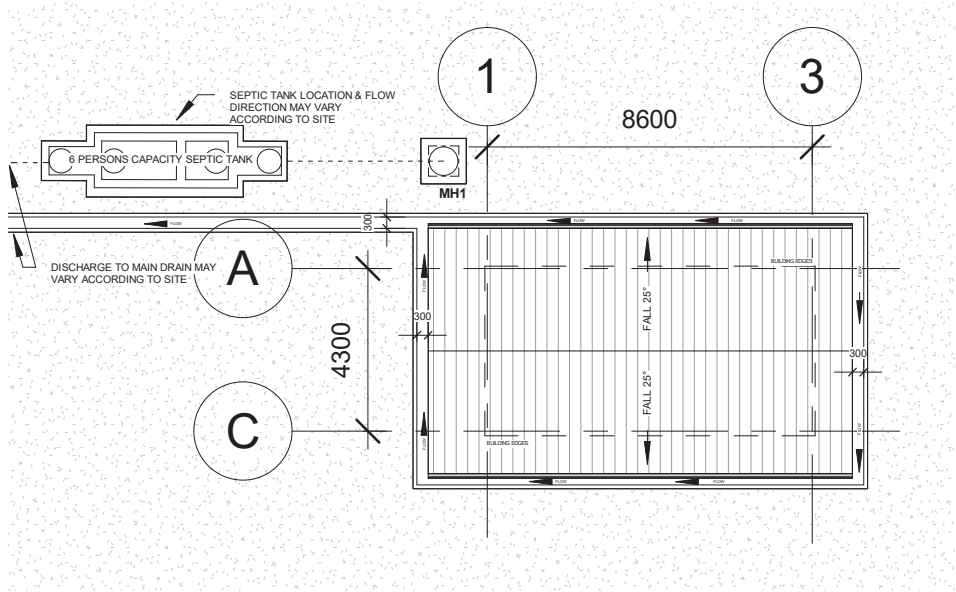
Drawing Name

DRAWING LIST & SITE  
DEVELOPMENT PLAN

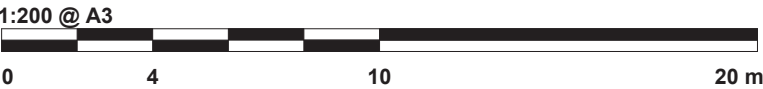
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**SITE DEVELOPMENT**  
**SCALE 1:200**



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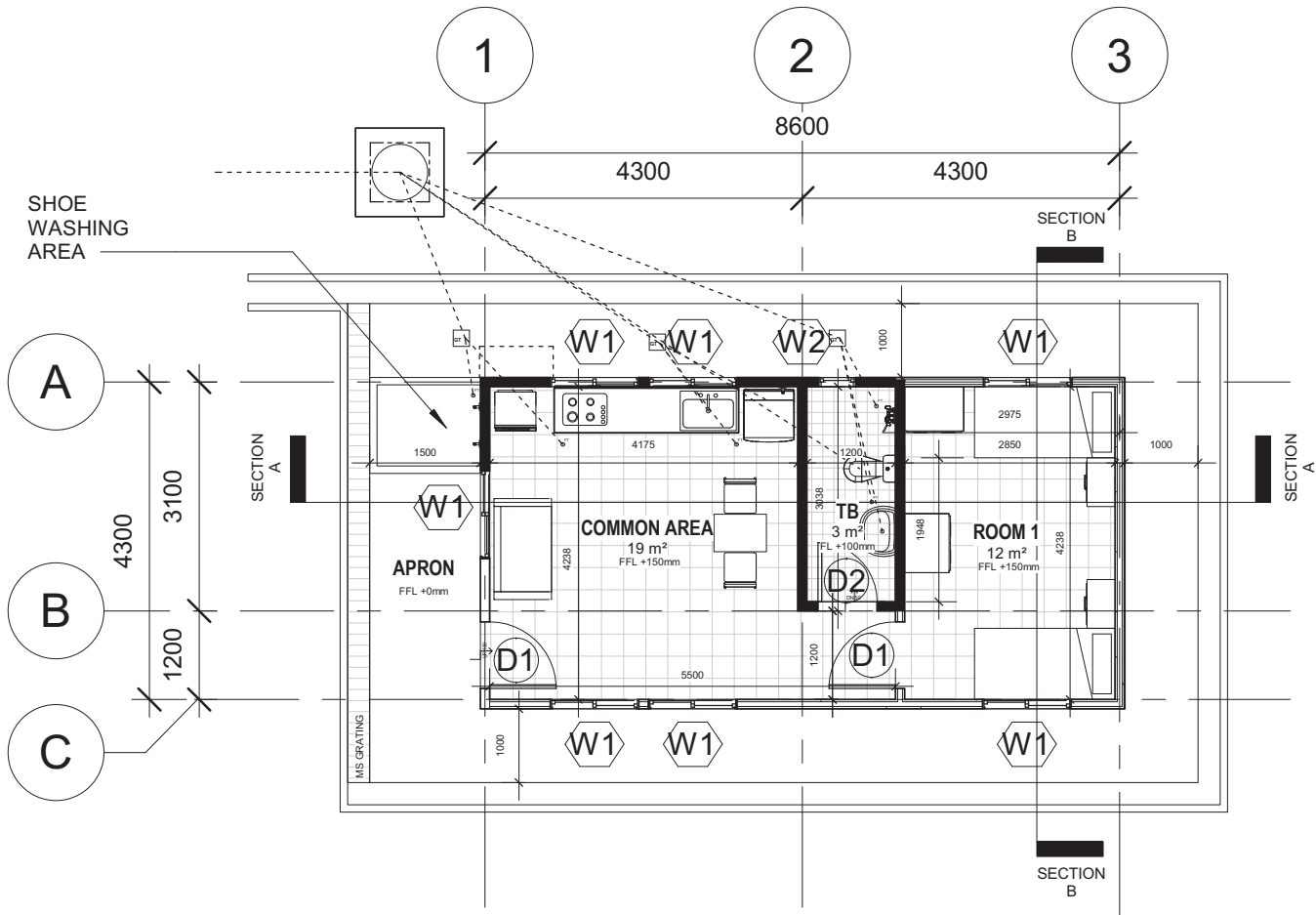
Project Name And Address

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STANDARD DESIGN OF FARM  
LABOUR QUARTERS, BRUNEI  
DARUSSALAM (FOR 2  
PERSONS)

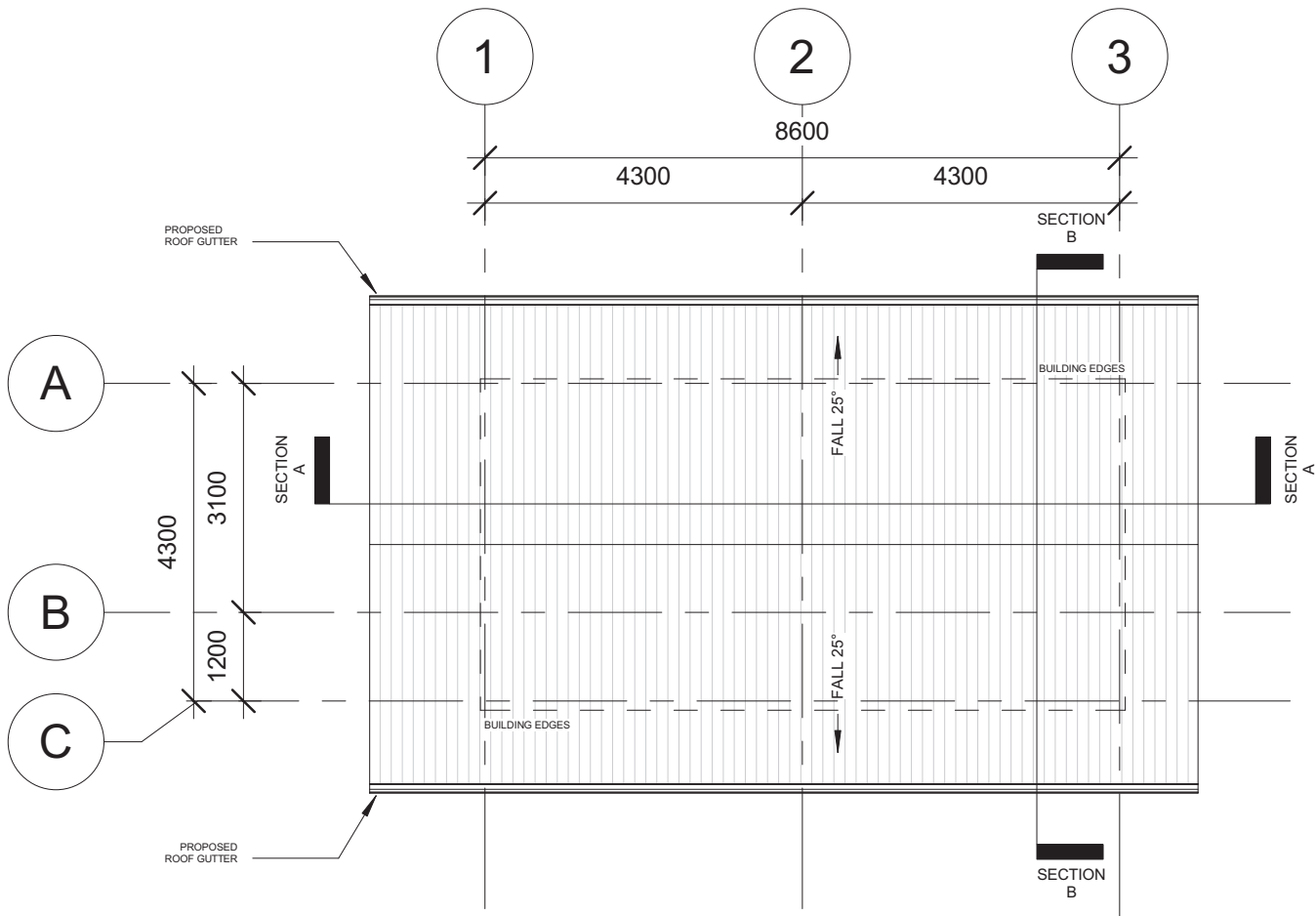
Drawing Name

GROUND FLOOR & ROOF  
PLAN

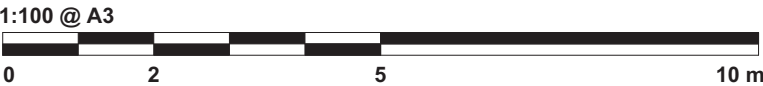
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PR120	B1	



**GROUND FLOOR PLAN**  
SCALE 1:100



**ROOF PLAN**  
SCALE 1:100



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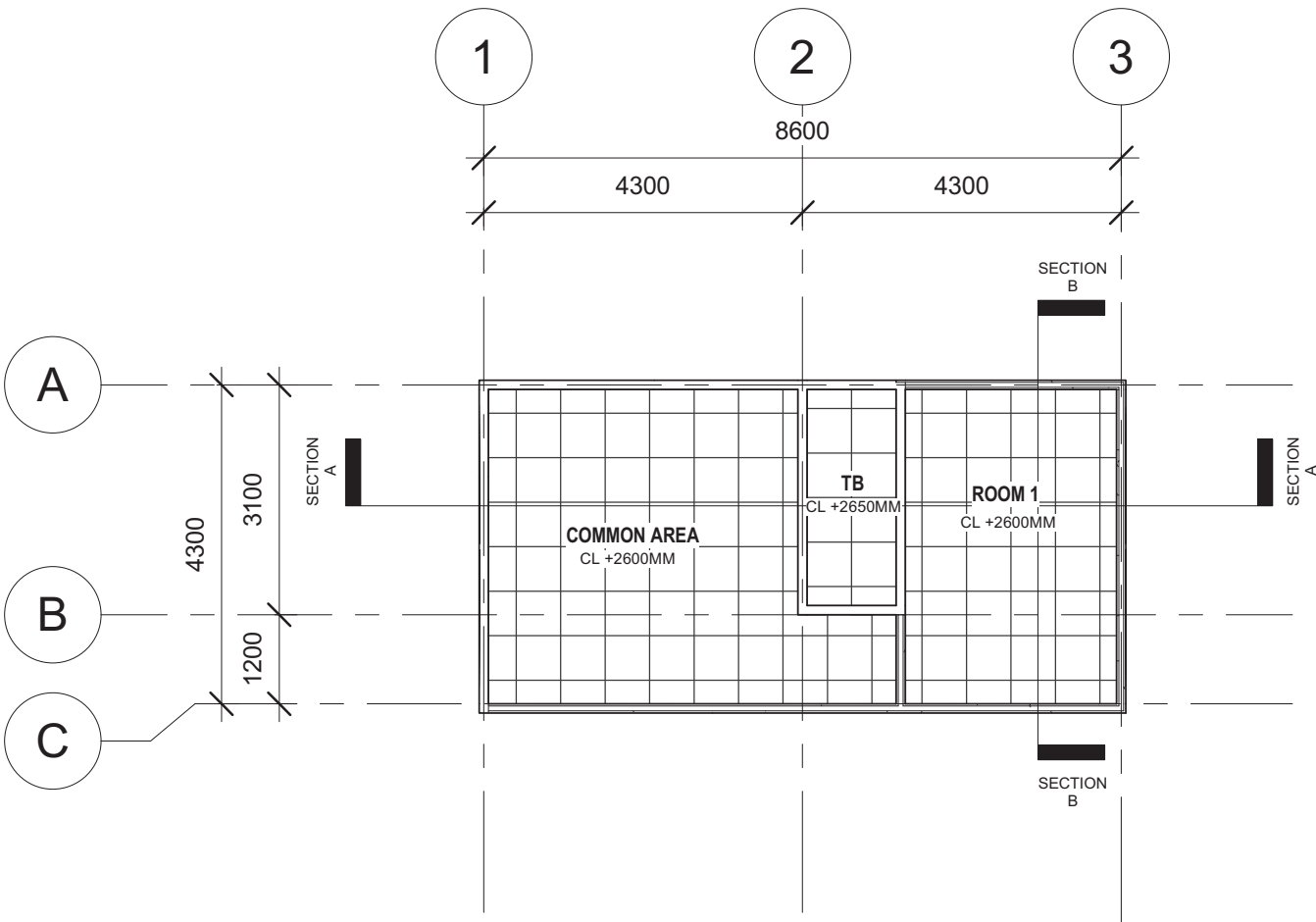
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STANDARD DESIGN OF FARM  
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DARUSSALAM (FOR 2  
PERSONS)

Drawing Name

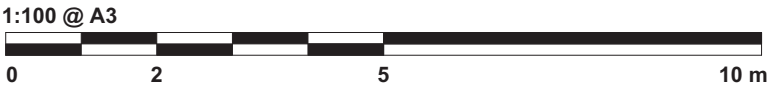
GROUND FLOOR CEILING  
PLAN

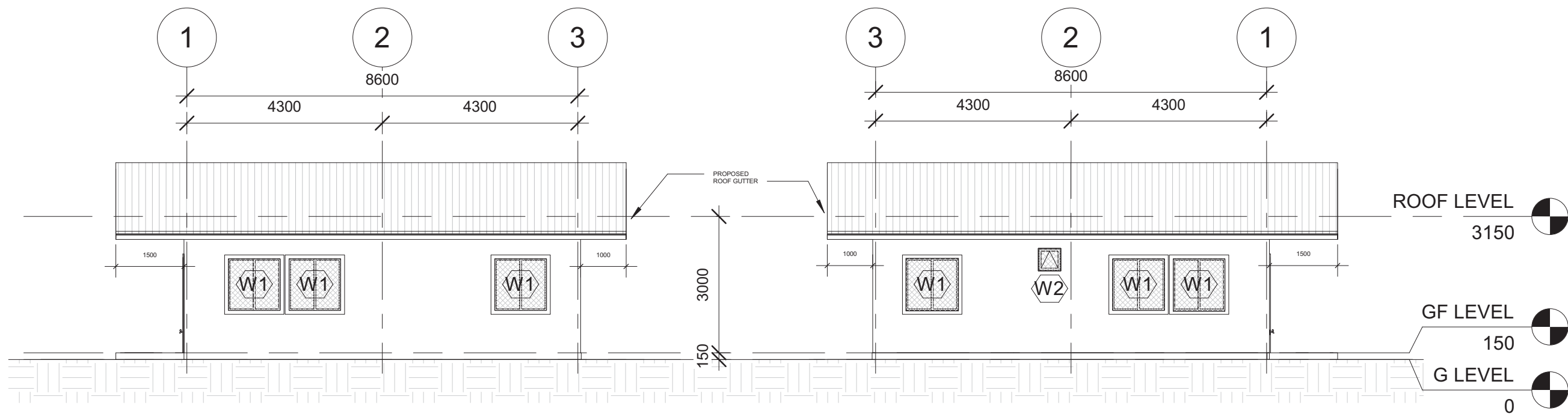
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PR120	C1	

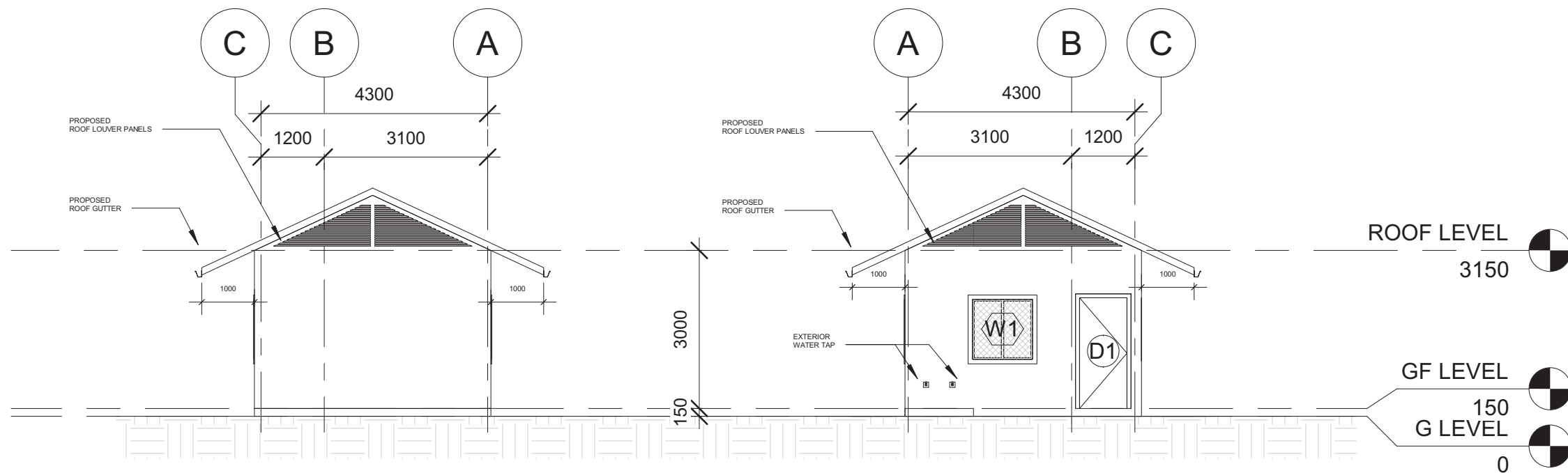


**GROUND FLOOR CEILING PLAN**  
**SCALE 1:100**







**FRONT & REAR ELEVATION**  
SCALE 1:100



**RIGHT & LEFT ELEVATION**  
SCALE 1:100

1:100 @ A3



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 <p>KHA Arkitiek P.O Box 272 MPC, Old Airport, Berakas BB3122</p> <p>Contact No: 2610380</p>		
<p>Architect's Signature</p>  <p>Khalid Haji Sirat Registration No: 004147</p>		
<p>Client Name and Approved by:</p> <p>Department of Agriculture &amp; Agrifood, BD</p>		
<p>Project Name And Address</p> <p>PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)</p>		
<p>Drawing Name</p> <p>ELEVATIONS</p>		
Designed By	KHS	
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Scale	1 : 100	
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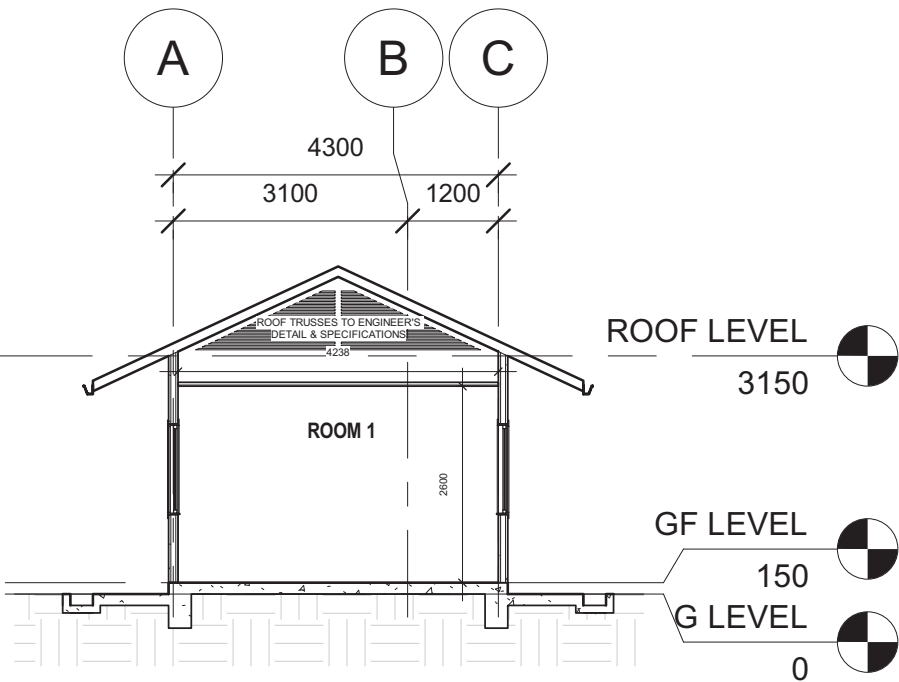
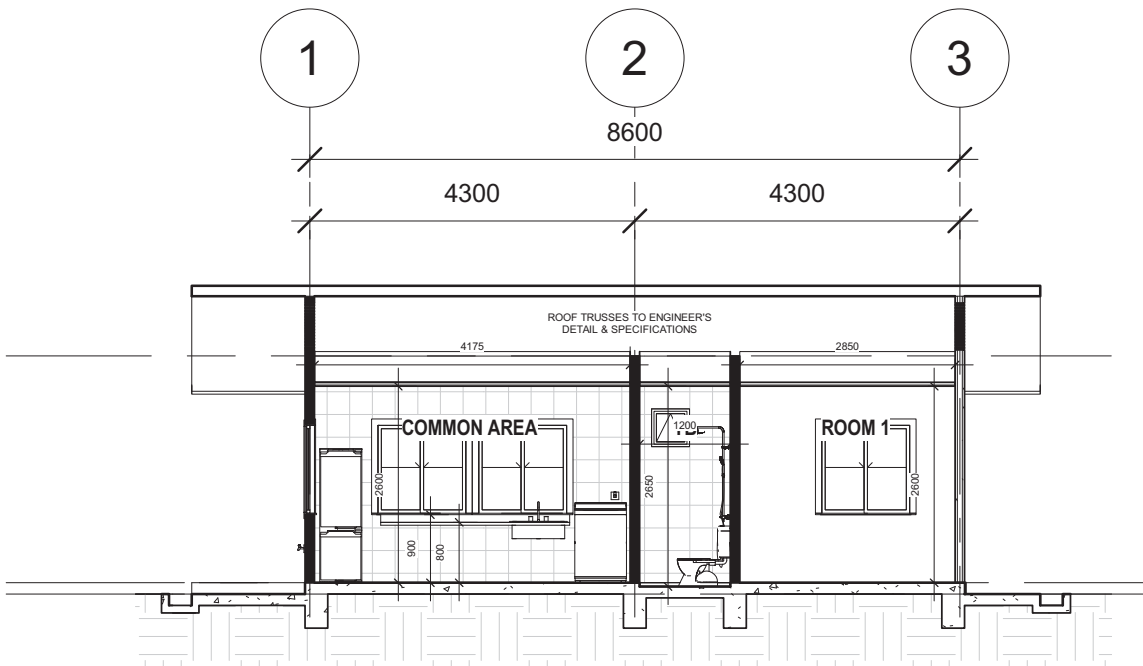
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LABOUR QUARTERS, BRUNEI  
DARUSSALAM (FOR 2  
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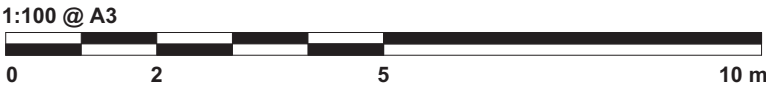
Drawing Name

SECTION A-A & SECTION B-B

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Project No	Sheet No	Rev.
PR120	E1	



**SECTION A-A**  
SCALE 1:100



**SECTION B-B**  
SCALE 1:100

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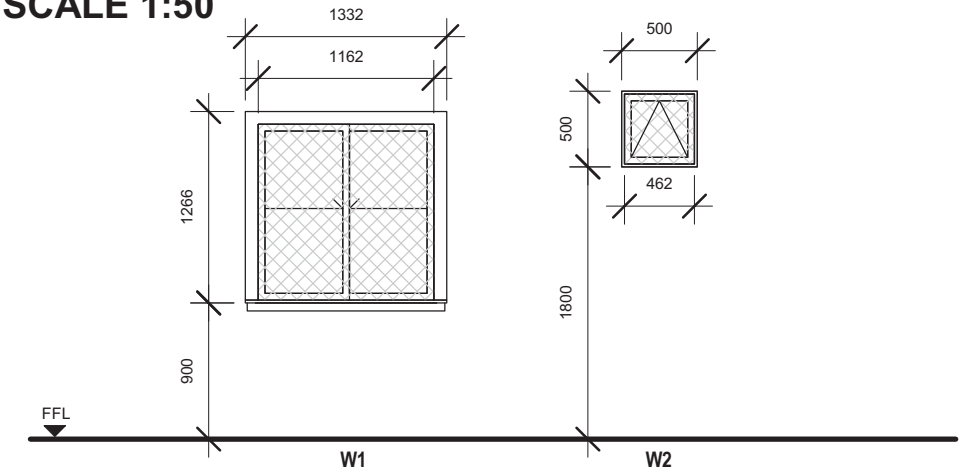
PROPOSED NEW 1 UNIT  
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Drawing Name

WINDOW SCHEDULE

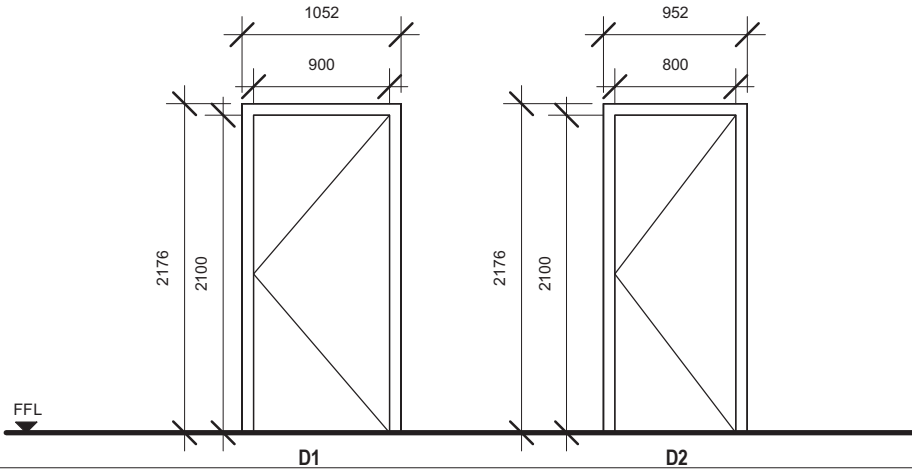
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PR120	F1	

**WINDOW SCHEDULE**  
**SCALE 1:50**



WINDOW SCHEDULE							
CODE	Nos	Location	Level	Sill Height	Width	Height	Description
W1	5	COMMON AREA	GF LEVEL	900	1200	1200	TWO PANEL SLIDING ALUMINIUM FRAMED WINDOW W/6MM THK. CLEAR GLASS W/ MOSQUITO NET COVER COMPLETE W/ ACCESSORIES TO MANUFACTURERS DETAILS
W1	2	ROOM 1	GF LEVEL	900	1200	1200	TWO PANEL SLIDING ALUMINIUM FRAMED WINDOW W/6MM THK. CLEAR GLASS W/ MOSQUITO NET COVER COMPLETE W/ ACCESSORIES TO MANUFACTURERS DETAILS
W2	1	TB	GF LEVEL	1800	500	500	TOP HUNG ALUMINIUM FRAMED WINDOW W/6MM THK. CLEAR GLASS W/ MOSQUITO NET COVER COMPLETE W/ ACCESSORIES TO MANUFACTURERS DETAILS

DOOR SCHEDULE  
SCALE 1:50



DOOR SCHEDULE

CODE	Nos	Location	Level	Width	Height	Description
D1	2	COMMON AREA	GF LEVEL	900	2100	SINGLE LEAF SOLID FIRE RATED DOOR TO MANUFACTURER'S DETAIL
D2	1	TB	GF LEVEL	800	2100	SINGLE LEAF LAMINATED SOLID DOOR TO MANUFACTURER'S DETAIL

**NOTES:** ANY DOOR THAT OPEN DIRECTLY TO THE OUTSIDE SHALL BE PROVIDED WITH INSECT SCREEN TO MANUFACTURERS DETAIL AND SPECIFICATION

IRONMONGERIES SCHEDULE

					HARDWARE SET					
					DORMA Stainless Steel Butt Hinge 2BB Stainless Steel, (4"x 3.0" x 2.5mm) or equivalent	DORMA Knob Type Lockset CK800 Series 60mm Grade 2 – US32D Finish CK 801 Entrance Function or equivalent	DORMA Knob Type Lockset CK800 Series 60mm Grade 2 – US32D Finish CK 803 Privacy Function or equivalent	ELITE 500 Door Stopper S066701 or equivalent	DORMA Barrel Bolt 2750x300MM SNP or equivalent	UNITY DGS01 stainless steel security door guard
	DOOR SCHEDULE	WIDTH x HEIGHT (mm)	QTY	DOOR TYPE	H1	L1	L2	A1	A2	A3
					HINGES	LOCKSETS		ACCESSORIES		
GROUND FLOOR										
COMMON AREA	D1	900 x 2100mm	1	FIRE DOOR SINGLE	3	●		●		●
ROOM 1	D1	900 x 2100mm	1	FIRE DOOR SINGLE	3	●	●	●		
TB	D2	800 x 2100mm	1	LAMINATED SOLID DOOR SINGLE	3		●		●	

CODE	CATEGORIES	IMAGES
H1	HINGES	
L1	LOCKSET	
L2		
NO.1	ACCESSORIES	
NO.2		
NO.3		

**NOTES:** BRAND MAY VARIES TO SUIT USER'S SAFETY AND THE ARCHITECT'S APPROVAL

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Architect's Signature  Khalid Haji Sirat Registration No: 00414Ar		
Client Name and Approved by:  Department of Agriculture & Agrifood, BD		
Project Name And Address  PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)		
Drawing Name  DOOR & IRONMONGERY SCHEDULE		
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Date	09/02/22	
Project No	Sheet No	Rev.
PR120	F2	

VENTILATION SCHEDULE

ROOM/SPACE	AREA (MSQ)	VENTILATION		LIGHTING	WINDOWS & DOORS	MECHANICAL
		REQUIRED (10%)	PROVIDED	PROVIDED		
GROUND FLOOR						
COMMON AREA	19 MSQ	1.9 MSQ	6.8 MSQ	5.6 MSQ	W1(5)	SPLIT AC , CEILING FAN, EXHAUST FAN
TB	3 MSQ	0.3 MSQ	0.2 MSQ	0.13 MSQ	W2(1)	EXHAUST FAN
ROOM 1	12 MSQ	1.2 MSQ	2.7 MSQ	2.22 MSQ	W1 (2)	CEILING FAN

MATERIAL SCHEDULE

AREA	FLOOR				WALL							CEILING			ROOF	
	F1	F2	F3	F4	W1	W2	W3	W4	W5	W6	W7	C1	C2	C3	R1	R2
GROUND FLOOR																
APRON				●												
COMMON AREA	●	●					●	●				●		●	●	●
COMMON AREA (KITCHEN)	●	●	●		●	●			●	●	●	●		●	●	●
TB	●	●	●		●	●			●	●	●		●	●	●	●
ROOM 1	●	●					●	●				●		●	●	●

CODE	FLOOR FINISHES
F1	300mm X 300mm homogeneous non-slip tile, colour and pattern to be decided by client
F2	Grouting
F3	Waterproofing Treatment or equivalent. All application shall be in accordance to manufacturer specification
F4	Cement Screed to level

Notes: All potentially wet area shall be anti slip surface tiles

CODE	WALL FINISHES
W1	25mm Thick Plaster
W2	Brick Wall
W3	ICI paint to manufacturer specification or equivalent, colour and pattern to be decided by client
W4	Light Dry Wall with metal framing
W5	300mm x 300mm Ceramic tiles, colour and pattern to be decided by client
W6	Bonding agent
W7	Grouting

Notes: For External Walls, dry wall complete with metal framing; one side lined with gypsum board and one side with cement board.

CODE	CEILING FINISHES
C1	12mm Gypsum board with metal framing. ICI paint to manufacturer specification, colour and pattern to be decided by client
C2	6mm Cement board with metal framing
C3	ICI paint to manufacturer specification or equivalent

CODE	ROOF FINISHES
R1	Colour Lok clip-on system profile or equivalent with 0.53/054mm thickness including joists and purlins and accessories to manufacturer and installation specification, colour and pattern to be decided by client
R2	Waterproofing, all application and installation shall be in accordance to manufacturer specification

SANITARYWARE & FITTINGS SCHEDULE

MATERIAL CODE NO.	WATER CLOSET	LAVATORY	FAUCET			SHOWER FAUCET	PAPER HOLDER	TOWEL BAR	MIRROR	ANAL SPRAY / WASHLET	SINK	FLOOR TRAP
	01	01	01	02	03	01	01	01	01	01	01	01
GROUND FLOOR												
EXTERIOR	-	-	-	2	-	-	-	-	-	-	-	-
COMMON AREA	-	-	-	1	1	-	-	-	-	-	1	-
TB	1	1	1	-	-	1	1	1	1	1	-	3
TOTAL	1	1	1	3	1	1	1	1	1	1	1	3

CODE	WATER CLOSET
01	SHOWY "WASHDOWN" 2-PIECE CLOSET (630 X 440 X 775MM) S-trap, 250mm Roughing-in. p-trap, 180mm Rouching-in or equivalent
CODE	LAVATORY
01	SHOWY-6851 WASHBASIN C/W FULL PEDESTAL (520 X 440 X 800MM) or equivalent
CODE	FAUCET
01	SHOWY-3006 "HIGHWAY" EXCLUSIVE S/L BASIN MIXER C/W SWIVEL SPOUT Stock Code: SHOWY-3006-000 or equivalent
02	SHOWY-2908 "BUTTERFLY" BIB TAP C/W 1/2" NOZZLE Stock Code: SHOWY-1755-000 or equivalent
03	SHOWY-3110-3000 "HIGH-GRADE" METAL SINGLE LEVER SINK TAP. Stock Code: SHOWY-3110-001 or equivalent
CODE	SHOWER FAUCET
01	SHOWY-3011-3001(R) "CAUSEWAY" 3-WAY LONG BATH MIXER C/W 3041 ABS ROUND SHOWER ROSE & 3039-SH HAND SHOWER Stock Code: SHOWY-3011-013 or equivalent

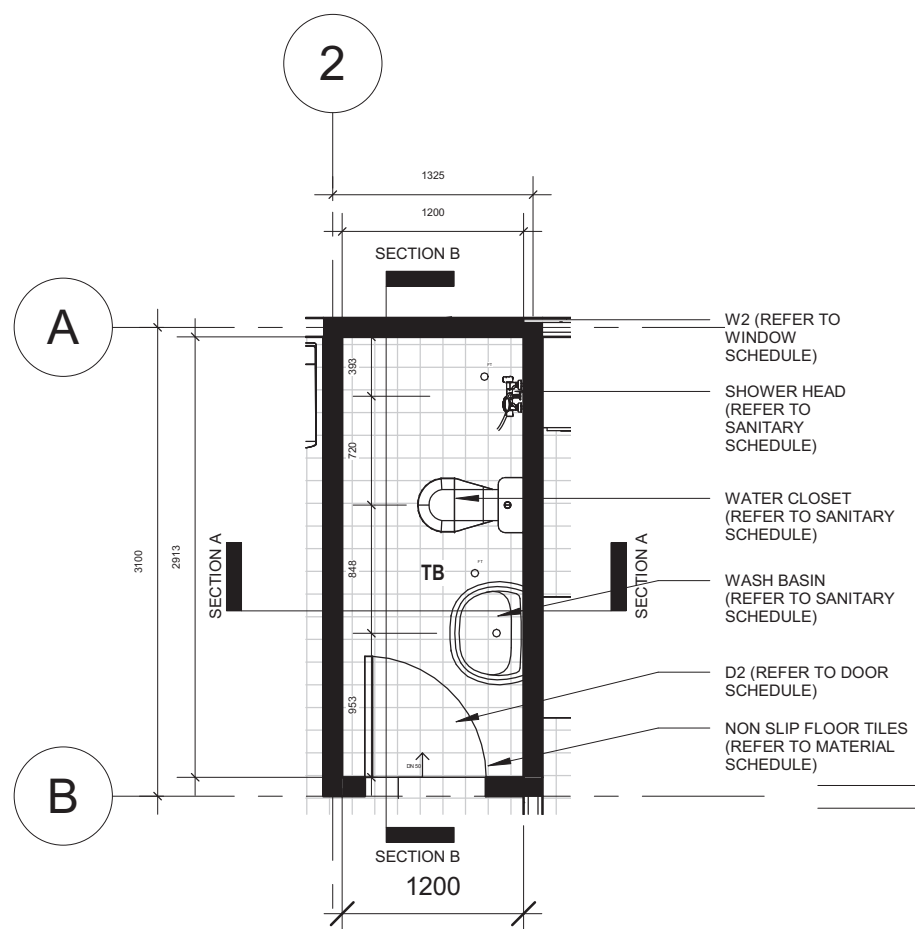
CODE	PAPER HOLDER
01	SHOWY-7067-000 "LUXI" S/S STAINLESS STEEL PAPER HOLDER or equivalent
CODE	TOWEL BAR
01	SHOWY-7142-000 SUS304 S/STEEL DOUBLE TOWEL BAR 600 x 120 x 55mm or equivalent
CODE	MIRROR
01	SHOWY-2998-000 480MM X 350MM SILVER COATED MIRROR or equivalent
CODE	SHOWER SPRAY / WASHLET
01	SHOWY-2480-011 "JOPAN" CHROME BIDET SPRAY C/W SHOWY-2453 120CM SILVER PVC HOSE & SHOWY-6322-000 "L" QUARTER-TURN ANGLE COCK WITH BIDET SPRAY HOLDER or equivalent
CODE	SINK
01	SHOWY-2948-000 "DAGENT" S/S LAY-ON LAUNDRY SINK (600 X 500 X 250MM) or equivalent
CODE	FLOOR TRAP
01	SHOWY-2774-000 6" X 6" CHROME ALLOY ADAPTABLE FLOOR TRAP GRATING or equivalent

CODE	CATEGORIES	IMAGES
NO.1	WATER CLOSET	
NO.1	LAVATORY	
NO.1	FAUCET	
NO.2		
NO.3		
NO.1	SHOWER FAUCET	

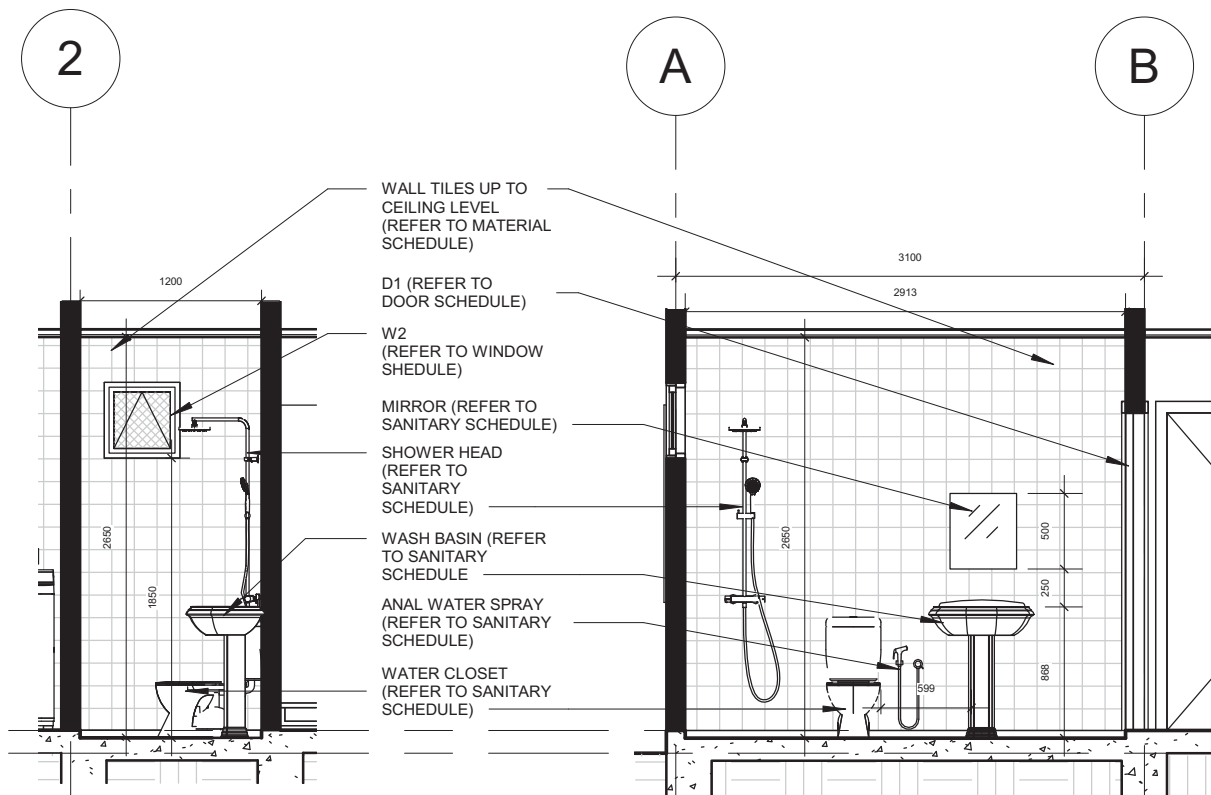
CODE	CATEGORIES	IMAGES
NO.1	PAPER HOLDER	
NO.1	TOWEL BAR	
NO.1	MIRROR	
NO.1	SHOWER SPRAY / WASHLET	
NO.1	SINK	
NO.1	FLOOR TRAP	

NOTES: BRAND MAY VARIES TO SUIT USER'S COMFORT AND THE ARCHITECT'S APPROVAL

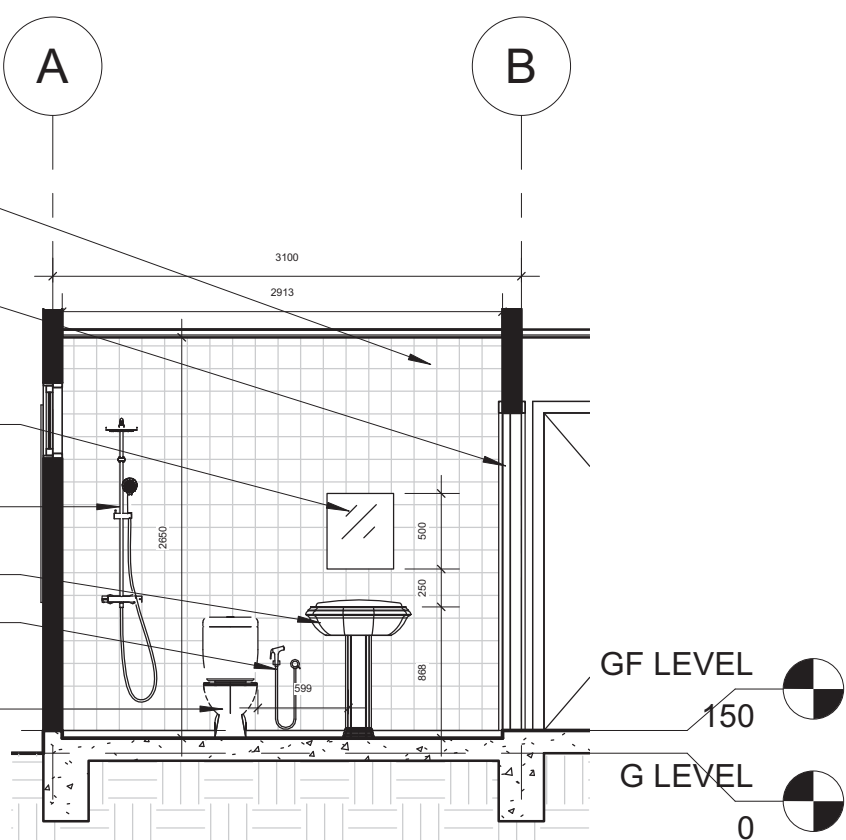
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Project Status	Schematic Design	
Project Date	18/08/2022	
Notes		



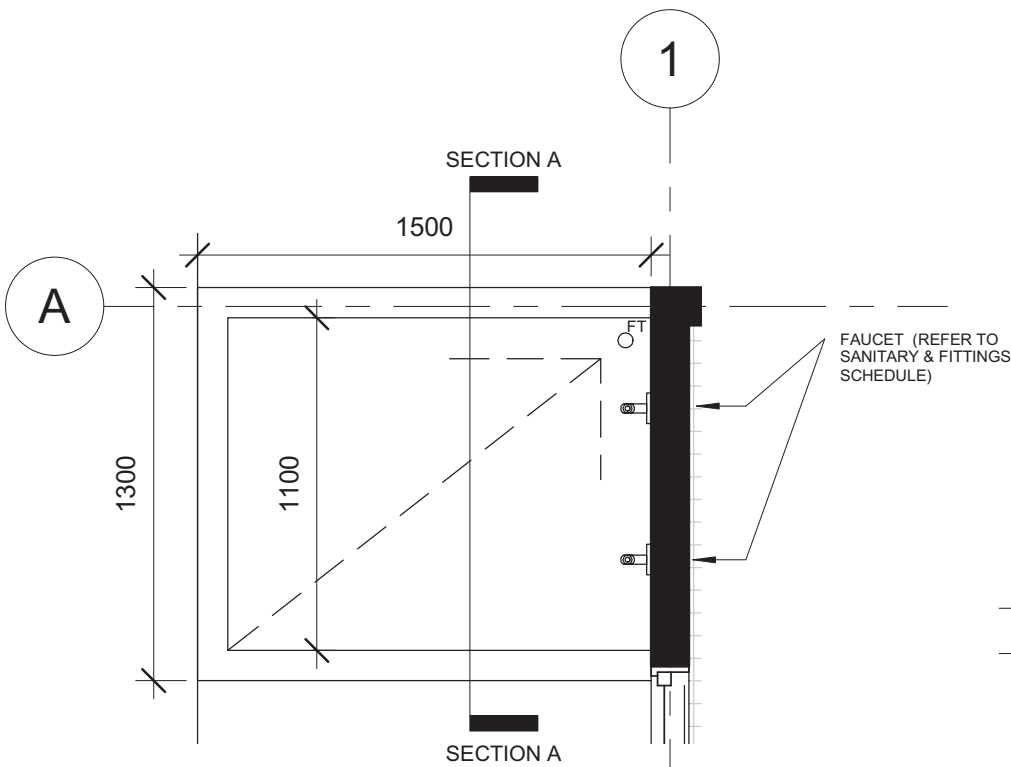
**TB FLOOR PLAN**  
SCALE 1:50



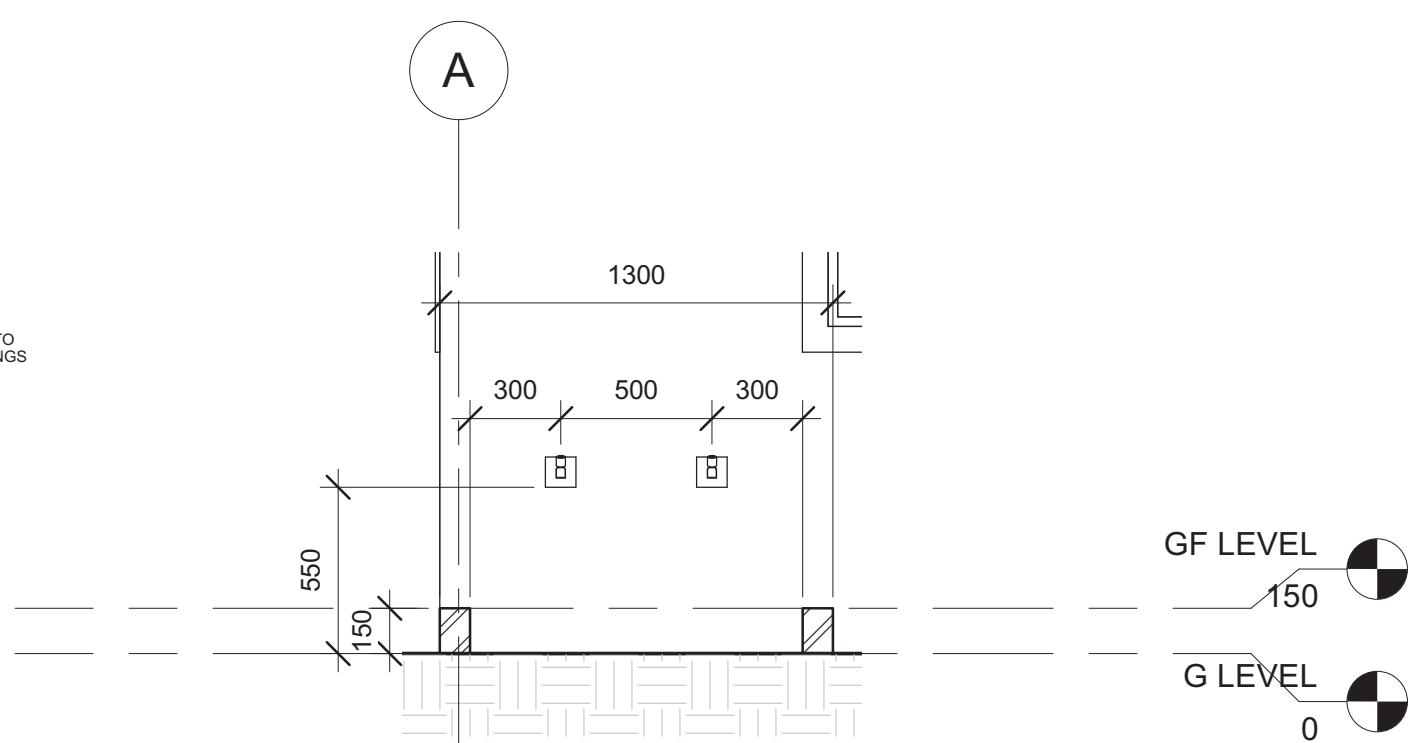
**TB SECTION A-A**  
SCALE 1:50



**TB SECTION B-B**  
SCALE 1:50



**SHOE WASHING AREA FLOOR PLAN**  
SCALE 1:25



**SHOE WASHING AREA SECTION A-A**  
SCALE 1:25

Printed:	3/9/2022 10:01:30 AM
Paper size:	A3-LV
Project Status:	Schematic Design
Project Date:	18/08/2022

Notes

No	Description	Date

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Contact No: 2610380

Architect's Signature  
  
Khairul Hazi Sirat  
Registration No: 00414742

Client Name and Approved by:  
  
Department of Agriculture & Agrifood, BD

Project Name And Address  
  
PROPOSED NEW 1 UNIT  
STANDARD DESIGN OF FARM  
LABOUR QUARTERS, BRUNEI  
DARUSSALAM (FOR 2  
PERSONS)

Drawing Name  
  
TB & SHOE WASHING AREA  
DETAILS

Designed By	KHS	
Drawn By	KHS,SHA	
Checked By	AQI	
Scale	As indicated	
Date	08/25/22	
Project No	Sheet No	Rev.
PR120	G1	

Printed:	3/9/2022 10:01:32 AM
Paper size:	A3-LV
Project Status:	Schematic Design
Project Date:	18/08/2022

Notes

No	Description	Date



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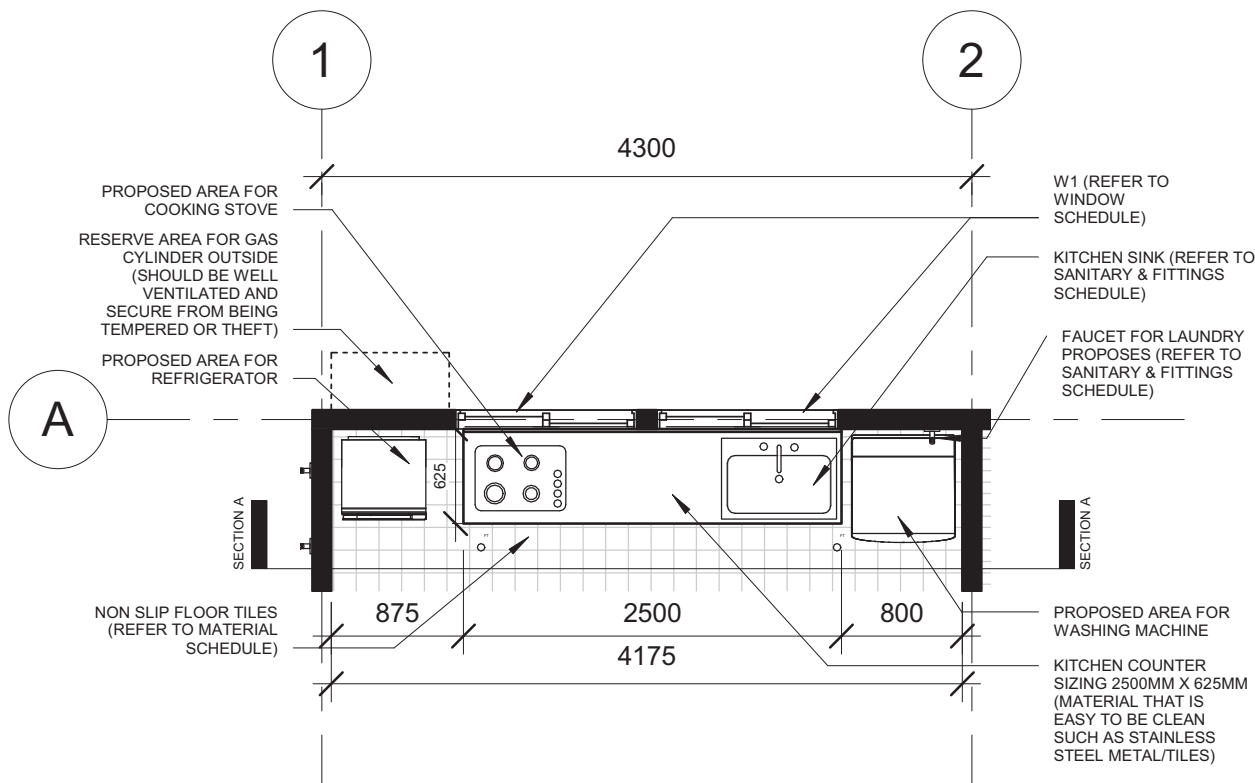
Project Name And Address

PROPOSED NEW 1 UNIT  
STANDARD DESIGN OF FARM  
LABOUR QUARTERS, BRUNEI  
DARUSSALAM (FOR 2  
PERSONS)

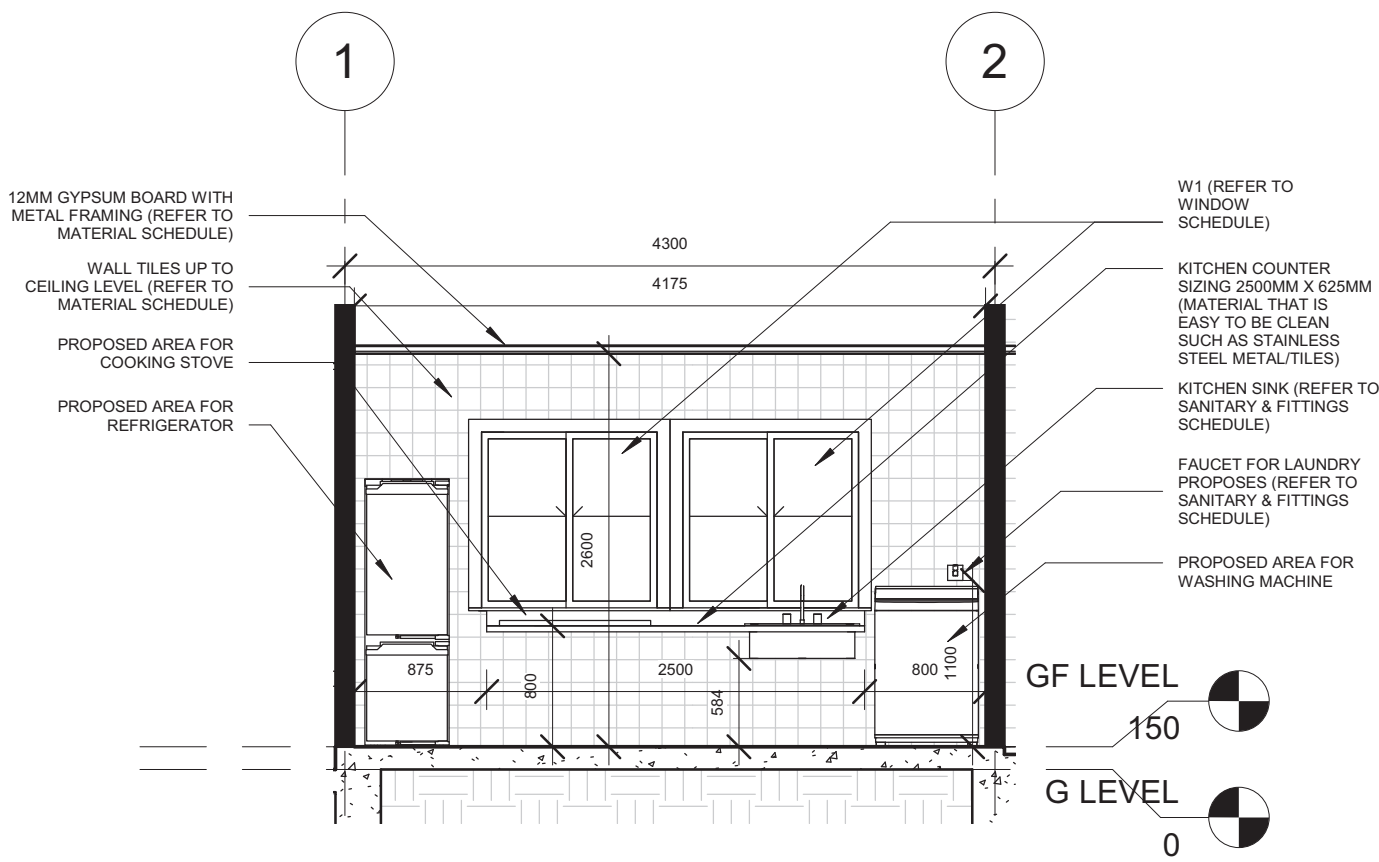
Drawing Name

KITCHEN DETAILS

Designed By	KHS	
Drawn By	KHS,SHA	
Checked By	AQI	
Scale	1 : 50	
Date	08/30/22	
Project No	Sheet No	Rev.
PR120	G2	



**KITCHEN FLOOR PLAN**  
SCALE 1:50



**KITCHEN SECTION A-A**  
SCALE 1:50

Printed:	21/9/2022 4:39:24 PM
Paper size:	A3-LV
Project Status:	Schematic Design
Project Date:	18/08/2022

Notes



No	Description	Date



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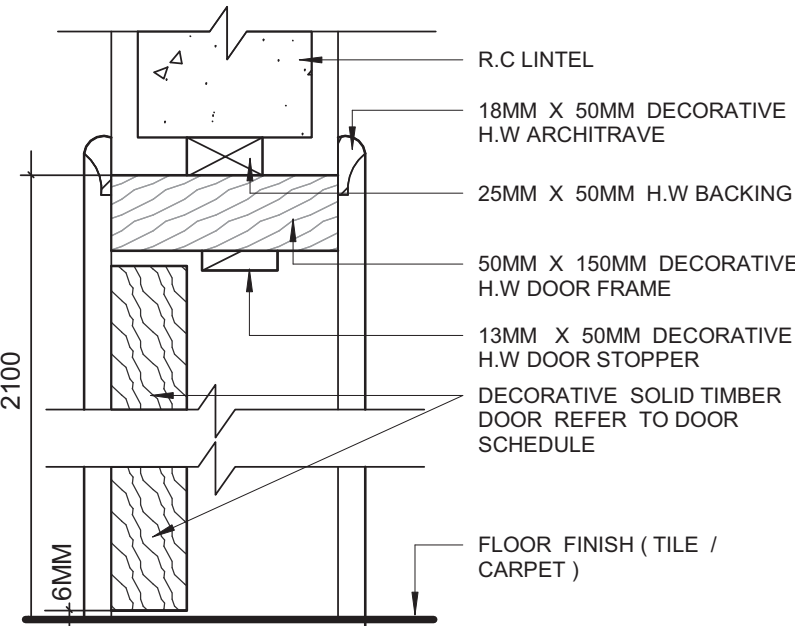
Project Name And Address

PROPOSED NEW 1 UNIT  
STANDARD DESIGN OF FARM  
LABOUR QUARTERS, BRUNEI  
DARUSSALAM (FOR 2  
PERSONS)

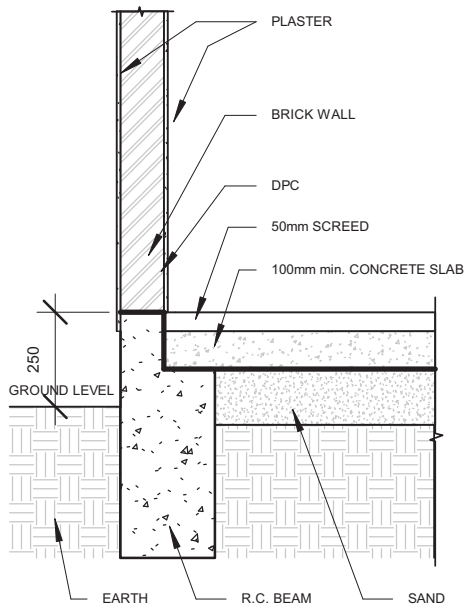
Drawing Name

DOOR JAMB, TYPICAL DPC,  
GUTTER AND SURFACE  
DRAIN DETAILS

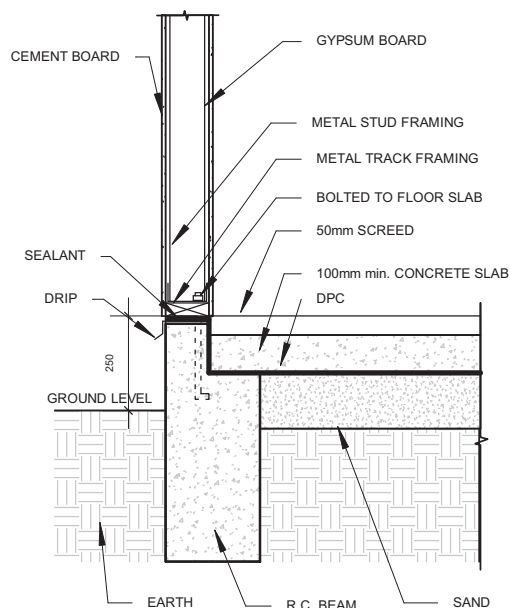
Designed By	KHS	
Drawn By	KHS,SHA	
Checked By	AQI	
Scale	As indicated	
Date	08/26/22	
Project No	Sheet No	Rev.
PR120	G3	



**DOOR JAMB  
DETAIL**  
SCALE 1:5



**TYPICAL DPC DETAILS (SOLID WALL)**  
SCALE 1:20

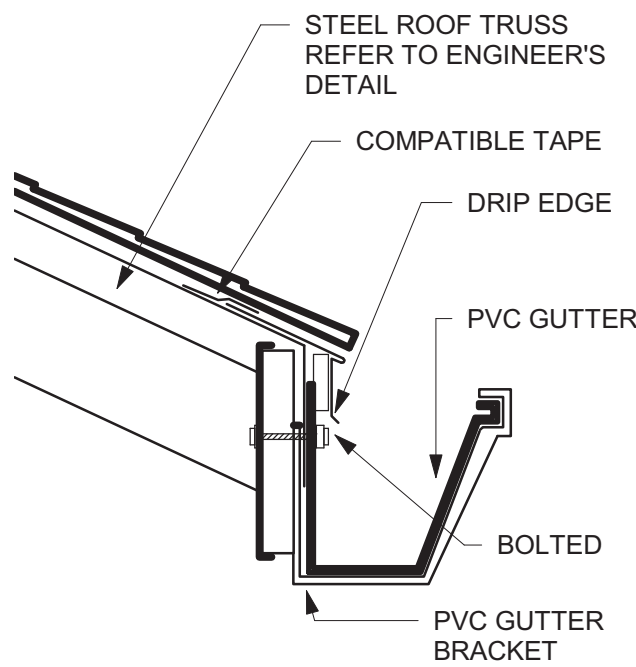


**TYPICAL DPC DETAILS (DRY WALL)**  
SCALE 1:20

**NOTES:** DRY WALL CAN BE OPTED FOR WALL SANDWICH PANEL TO THE MANUFACTURER'S DETAILS AND SPECIFICATIONS

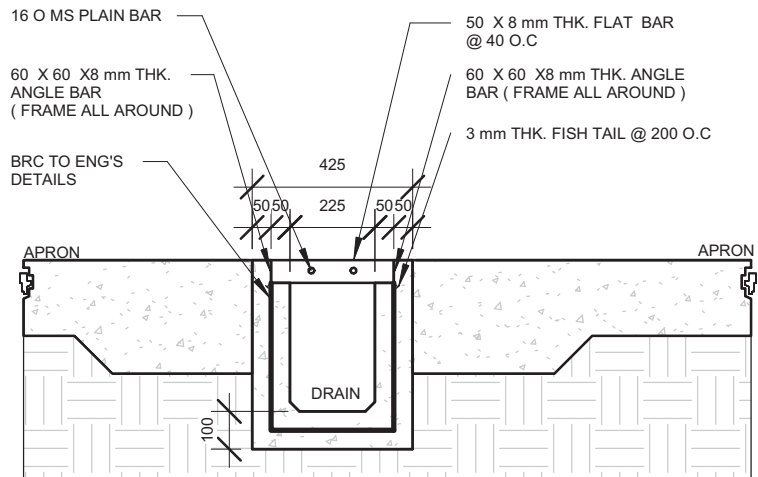
\*For External Walls, dry wall complete with metal framing; one side lined with gypsum board and one side with cement board.

\*For Internal Walls, dry wall complete with metal framing; both sides lined with gypsum board.

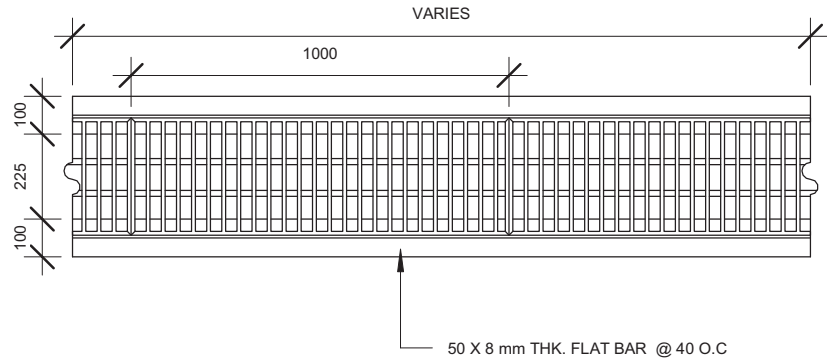


**GUTTER DETAILS**  
SCALE 1:5

**DETAIL OF SURFACE DRAIN WITH HEAVY DUTY MS GRATING COVER**



**SECTIONAL 225MM**  
SCALE 1 : 20



**TOP DRAIN PLAN**  
SCALE 1 : 20

Printed:	3/9/2022 10:01:36 AM
Paper size:	A3-LV
Project Status	Schematic Design
Project Date	18/08/2022

Notes

No	Description	Date



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Department of Agriculture & Agrifood, BD














Project Name And Address








PROPOSED NEW 1 UNIT  
STANDARD DESIGN OF FARM  
LABOUR QUARTERS, BRUNEI  
DARUSSALAM (FOR 2  
PERSONS)

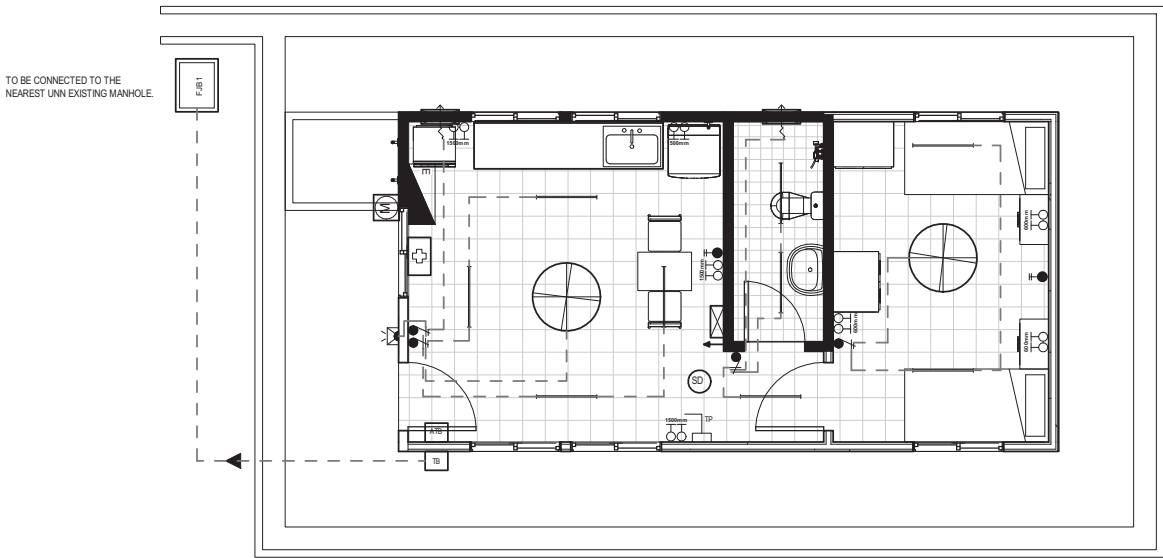
Drawing Name

ELECTRICAL LAYOUT

Designed By	KHS	
Drawn By	KHS,SHA	
Checked By	AQI	
Scale	1 : 100	
Date	09/02/22	
Project No	Sheet No	Rev.
PR120	K	

ELECTRICAL SYMBOLS	
	1X LED TUBE LIGHTING
	WALL LIGHTING (WALL MOUNTED & WEATHERPROOF LIGHT FIXTURE)
	ONE GANG SINGLE TOGGLED SWITCH POINT
	ONE GANG TWO TOGGLED SWITCH POINT
	ONE GANG THREE TOGGLED SWITCH POINT
	2 x 13A SOCKET OUTLET at 600mm HIGH ABOVE FINISHED FLOOR LEVEL. FOR EXTERNAL AREA, WATER PROOF BOX OR COVER SHALL BE USED
	2 x 13A SOCKET OUTLET at 1500mm HIGH ABOVE FINISHED FLOOR LEVEL. FOR EXTERNAL AREA, WATER PROOF BOX OR COVER SHALL BE USED
	15A SWITCH SOCKET OUTLET
	CEILING FAN
	ELECTRICAL DISTRIBUTION BOARD
	PRE-PAID ELECTRIC METER
	300mm Dia. EXHAUST FAN PT. COME WITH FUSE CONNECTION UNIT
	TV SOCKET POINT

JPB SYMBOLS	
	2.5KG (CO2) DRY EXTINGUISHER
	FIRE BLANKET ( 1 x 1.2 x 1.8m )
	SMOKE DETECTOR
TELECOMMUNICATION SYMBOLS	
	TELEPHONE OUTLET
	ACCESS TERMINATION BOX
	TERMINATION BOX
FIRST AID SYMBOLS	
	FIRST AID KIT BOX



**GROUND FLOOR ELECTRICAL LAYOUT PLAN**

SCALE 1:100

1:100 @ A3



Printed:	3/9/2022 10:01:36 AM
Paper size:	A3-LV
Project Status	Schematic Design
Project Date	18/08/2022

Notes

No	Description	Date



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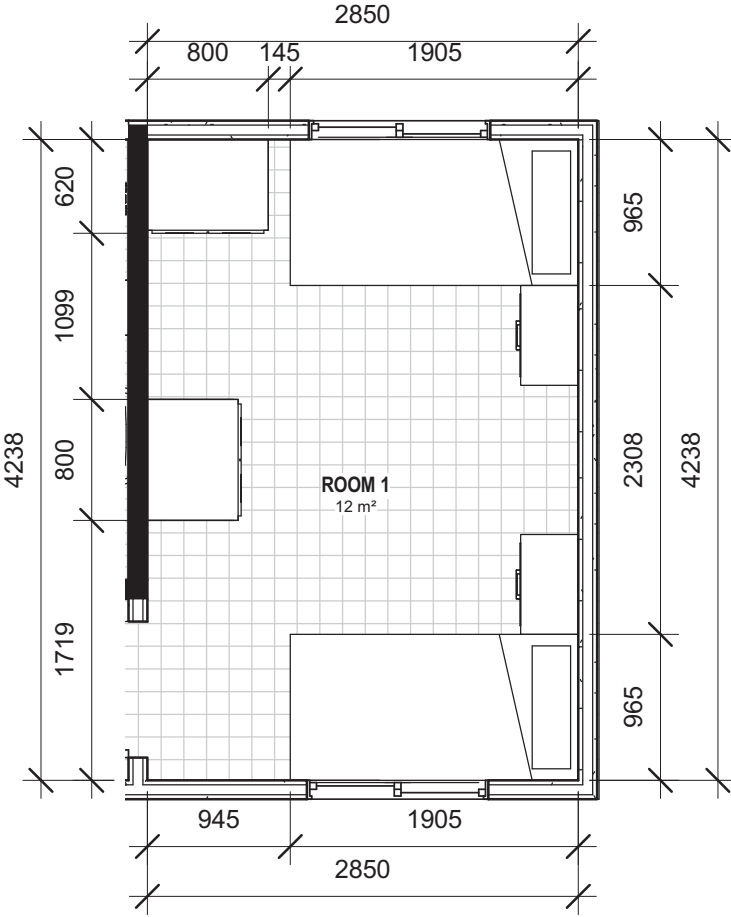
Project Name And Address

PROPOSED NEW 1 UNIT  
STANDARD DESIGN OF FARM  
LABOUR QUARTERS, BRUNEI  
DARUSSALAM (FOR 2  
PERSONS)

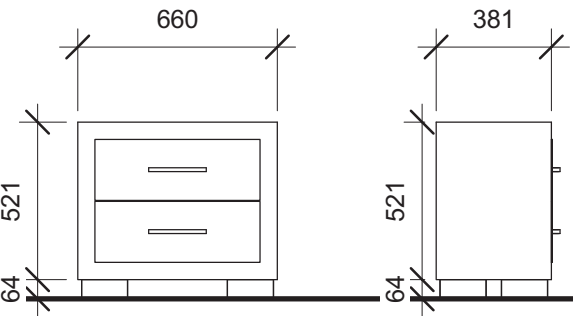
Drawing Name

ROOM PLAN & FURNITURE  
SCHEDULE

Designed By	KHS	
Drawn By	KHS,SHA	
Checked By	AQI	
Scale	As indicated	
Date	08/31/22	
Project No	Sheet No	Rev.
PR120	P1	



**ROOM 1**  
SCALE 1:50



**END TABLE**

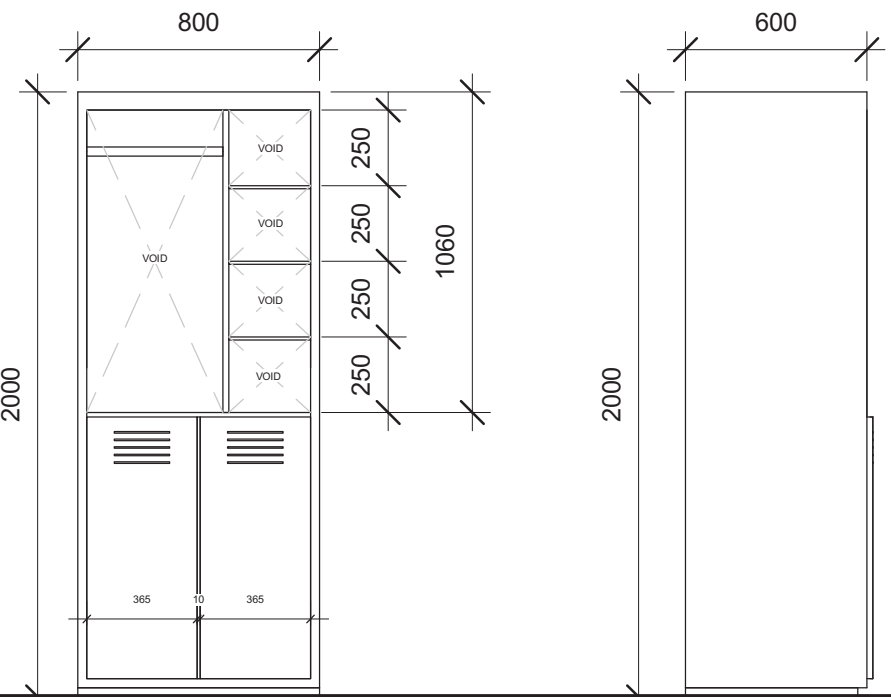
**SINGLE BED**

**BED REQUIREMENT**

- Single Bed
- Sizing 900m x 1900mm, 300mm from the floor to bottom mattress.
- 1500mm between beds

**LOCKER REQUIREMENT**

- Lockable
- Sizing 2000mm(h) x 800mm x 600mm
- Open shelf



**LOCKER**

**FURNITURE SCHEDULE**  
SCALE 1:25

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)

LIST OF DRAWINGS				
	DESCRIPTIONS	DRAWING NO.	REVISION NO.	REMARKS
1	LIST OF DRAWINGS	SBC/Q366/AFLQ/2P/RC/L - 100	2	
2	GENERAL NOTES	SBC/Q366/AFLQ/2P/RC/G-100		
3	150x150mm R.C PRECAST PILEFOUNDATION LAYOUT PLAN	SBC/Q366/AFLQ/2P/RC/CS-100		
4	PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 100 KN/m²]	SBC/Q366/AFLQ/2P/RC/CS-101		
5	PAD FOOTING DETAILS [ALLOWABLE STRESS OF SOIL 100 KN/m²]	SBC/Q366/AFLQ/2P/RC/CS-101A		
6	PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 150 KN/m²]	SBC/Q366/AFLQ/2P/RC/CS-102		
7	PAD FOOTING DETAILS [ALLOWABLE STRESS OF SOIL 150 KN/m²]	SBC/Q366/AFLQ/2P/RC/CS-102A		
8	PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 200 KN/m²]	SBC/Q366/AFLQ/2P/RC/CS-103		
9	PAD FOOTING DETAILS [ALLOWABLE STRESS OF SOIL 200 KN/m²]	SBC/Q366/AFLQ/2P/RC/CS-103A		
10	COLUMN SCHEDULE	SBC/Q366/AFLQ/2P/RC/CS-104		
11	GROUND FLOOR BEAM LAYOUT PLAN	SBC/Q366/AFLQ/2P/RC/CS-200		
12	GROUND FLOOR BEAM DETAILS	SBC/Q366/AFLQ/2P/RC/CS-201		
13	ROOF BEAM LAYOUT PLAN	SBC/Q366/AFLQ/2P/RC/CS-300		
14	ROOF BEAM DETAILS	SBC/Q366/AFLQ/2P/RC/CS-301		
15	ROOF TRUSSES LAYOUT PLAN	SBC/Q366/AFLQ/2P/RC/CS-400		
16	ROOF TRUSS SECTION(FOR ROOF TRUSS TO REINFORCE CONCRETE BEAM CONNECTION)	SBC/Q366/AFLQ/2P/RC/CS-401		
17	ROOF TRUSS SECTION (FOR ROOF TRUSS TO REINFORCE CONCRETE BEAM CONNECTION)	SBC/Q366/AFLQ/2P/RC/CS-402		
18	MISCELLANEOUS DETAILS - 1	SBC/Q366/AFLQ/2P/RC/MISC-100		
19	MISCELLANEOUS DETAILS - 2	SBC/Q366/AFLQ/2P/RC/MISC-101		



SERI BUMI CONSULTANT  
CIVIL & STRUCTURAL ENGINEERING CONSULTANT  
No: 14, 2nd FLOOR, BLOCK A, GADONG CENTRAL, SIMPANG  
21, JALAN GADONG, BSB, BRUNEI DARUSSALAM  
TEL: 673-2427275 FAX: 673-2427279  
E-MAIL: sbc@brunei@gmail.com

CLIENT:

NO.	AMENDMENTS	BY	DATE

DESIGNED BY

THAN ZAW TUN

DRAWN BY

SAI

CHECKED BY

MD. YUNUS

APPROVED BY

DATE

20/09/2022

SCALE:

N.T.S

TITLE:

LIST OF DRAWINGS

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:

SHEET NO:

DRAWING NO:

SBC/Q366/AFLQ/2P/RC/L - 100

REV:

2

1. GENERAL

- 1.1 SETTING OUT:  
ALL DIMENSIONS MEASURED ON SITE SHALL BE CHECKED AND CONFIRMED WITH RELEVANT ARCHITECTURAL, M&E, CIVIL AND STRUCTURAL DRAWINGS.
- 1.2 ANY DISCREPANCIES BETWEEN ARCHITECTURAL, C&S AND M&E DRAWINGS SHALL BE REFERRED TO PROJECT ARCHITECT OR STRUCTURAL ENGINEER OR M&E.
- 1.3 PLEASE NOTE THAT THE ARCHITECTURAL DRAWINGS GRID LINE AND STRUCTURAL DRAWINGS GRID LINES HAVE BEEN PURPOSELY OFF-SET TO EASE CONSTRUCTION ON STRUCTURAL MEMBERS.

2. STANDARDS & CODE OF PRACTICE

- 2.1 BS 8110 : 1985 STRUCTURAL USE OF CONCRETE
- 2.2 PBD 12 : 2008 BUILDING GUIDELINES AND REQUIREMENTS
- 2.3 BS 4449 : 1978 HOT ROLLED STEEL BARS FOR THE REINFORCEMENT OF CONCRETE

3. CONCRETE

- 3.1 CONCRETE STRENGTH :- 25 N/mm<sup>2</sup> (GRADE 25) UNLESS OTHERWISE STATED
- |               |                        |
|---------------|------------------------|
| LEAN CONCRETE | - 15 N/mm <sup>2</sup> |
| PILE CAP      | - 25 N/mm <sup>2</sup> |
| COLUMN        | - 25 N/mm <sup>2</sup> |
| SLAB          | - 25 N/mm <sup>2</sup> |
| BEAM          | - 25 N/mm <sup>2</sup> |

- 3.2 CONCRETE COVER TO ALL REINFORCEMENT INCLUDING LINKS SHALL MEET THE 2-HOUR FIRE RATING & AS STATED BELOW (UNLESS OTHERWISE STATED)
- |           |        |
|-----------|--------|
| COLUMNS   | : 30mm |
| BEAMS     | : 30mm |
| PILE CAPS | : 75mm |
| SLABS     | : 20mm |

- 3.3 CONCRETE CURING : TO BE CARRIED OUT BY SPRAYING WITH WATER AND COVERING WITH EITHER GUNI SACKS OR PLASTIC SHEETS.

- 3.4 ANY COLD JOINTS AND HACKED CONCRETE SURFACE SHALL BE APPLIED WITH APPROVED BONDING AGENT BEFORE POURING NEW CONCRETE.

- 3.5 50mm (MINIMUM) THICK BLINDING LEAN CONCRETE SHALL BE PROVIDED BENEATH FOOTINGS, GROUND BEAMS AND ALL GROUND FLOOR SLABS SOFFIT.

4. STEEL REINFORCEMENT

- 4.1 THE MINIMUM YIELD STRENGTH OF STEEL REINFORCEMENT (WITH DENOTATION "T") FOR HIGH TENSILE DEFORMED BAR (TYPE 2 - 460 N/mm<sup>2</sup>, STEEL FABRIC - 485 N/mm<sup>2</sup> (UNLESS OTHERWISE STATED).
- 4.2 THE MINIMUM YIELD STRENGTH OF STEEL REINFORCEMENT (WITH DENOTATION "R") SHALL BE 250N/mm<sup>2</sup>.

5. ALL WATER RETAINING STRUCTURE OR WET AREAS SHALL BE APPLIED WITH APPROVED WATER PROOFING SYSTEM.

6. IF REQUIRED R.C LINTEL BEAM OF SIZES 150 X 200 REINFORCED WITH 2T12 (T&B) & R6 -150 LINKS SHALL BE PROVIDED TO ALL DOORS AND WINDOWS. STIFFENER, COLUMN SIZES 150X150 TO 200X200 REINFORCED WITH 4T12 & T10-150 LINKS SHALL BE PROVIDED IF REQUIRED. (FOR EG. ON WALL OF MORE THAN 3.5m IN HORIZONTAL LENGTH OR VERTICAL HEIGHT)

7. INCORPORATING OF M & E REQUIREMENTS IN STRUCTURAL DRAWINGS:  
THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS INCORPORATING ALL M & E REQUIREMENTS, OPENINGS ETC INTO THE STRUCTURAL DRAWINGS AND OBTAIN THE PROJECT STRUCTURAL ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY FORM OF PERMANENT CONSTRUCTION WORKS. THE CONTRACTOR SHALL RESOLVE ALL DISCREPANCIES WITH ENGINEERS REGARDING M & E WORKS PRIOR TO CONCRETING.

8. NOTES FOR COMPACTION WORKS OF SUB-BASE AND SUB-GRADE.

1. ALL SUB-GRADE AND SUB-BASE LAYING WORKS SHALL BE WELL COMPACTED TO OVER 95% CBR.
2. MINIMUM OF FOUR NUMBER OF DRY FIELD DENSITY TESTS AND CBR TESTS SHALL BE CONDUCTED ON COMPACTED SUBGRADES AND SUB-BASE BEFORE CARRYING OUT ANY PERMANENT WORKS SUCH AS CONCRETING OF ACCESS ROAD, GARAGE NON-SUSPENDED FLOOR SLABS & HARD STANDINGS, ETC. THE TESTS RESULTS SHALL BE SUBMITTED TO CIVIL AND STRUCTURAL CONSULTANT ENGINEER FOR REVIEW AND APPROVAL TO PROCEED WITH PERMANENT WORKS (IF APPLICABLE BASIS ONLY).

9.REMOVAL OF FORMWORK

- A) THE TIME FOR THE REMOVAL OF FORMWORKS IS TO BE SUBJECTED TO ENGINEER'S APPROVAL, BUT THE FOLLOWING MAY BE TAKEN AS A GUIDE TO MINIMUM TIMES APPLICABLE UNDER NORMAL CIRCUMSTANCES:

SIDE OF COLUMNS/PIERS,WALLS AND BEAMS	3 DAYS
SOFFIT OF SLABS (PROPS LEFT UNDER)	14 DAYS
PROPS OF SLABS	28 DAYS
SOFFIT OF BEAMS ( PROPS LEFT UNDER)	14 DAYS
PROPS TO SOFFIT OF BEAMS	28 DAYS

- B) SHUTTERING AND CENTERING SHALL BE REMOVED BY GRADUAL EASING WITHOUT JARRING, AND ONLY IN THE PRESENCE OF A COMPETENT SUPERVISER. BEFORE REMOVAL OF THE SHUTTERING, THE CONCRETE SHALL BE EXAMINED, AND REMOVAL SHALL PROCEED ONLY IF THE CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO SUPPORT ITS OWN WEIGHT AND ANYCONSTRUCTIONAL OR OTHER LOADS LIKELY TO COME UPON IT. IF ANY LOADING IN EXCESS OF THE DESIGN LOAD IS ANTICIPATED, APPROVED PROPS SHALL BE PROVIDED AFTER REMOVAL OF SHUTTERING.

- C) TO ENSURE THAT THE CONSTRUCTIONAL LOADS OF A FLOOR ARE SHARED BY AT LEAST TWO FLOORS BELOW IT, THE PROPS TO THE BEAMS AND SLABS OF A FLOOR SHALL NOT BE REMOVED UNTIL THE FLOOR ABOVE THE FLOOR IN QUESTION, IS STRONG ENOUGH TO SUPPORT ITSELF.

10. GENERAL NOTES FOR PILING WORKS

1. ALL PILES TO BE USED FOR THIS PROJECT SHALL BE OF BRUNEI DARUSSALAM MINISTRY OF DEVELOPMENT'S APPROVED TYPES AND BRAND NAMES OR AS PER S.O.'S APPROVAL.
2. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, BEFORE ANY PILING WORK IS STARTED, DETAILS OF :-  
- PILE DRIVER INCLUDING SIZE OF HAMMER AND DROP.  
- CONTRACTOR'S CALCULATIONS OF SETS, CALCULATED USING THE HILEY FORMULA.  
- PROPOSED PROGRAM AND SEQUENCE OF PILE DRIVING INCLUDING TEST PILES.
3. NO PILING SHALL COMMENCE UNTIL THE SET VALUES SUBMITTED BY THE CONTRACTOR ARE APPROVED IN WRITING BY THE ENGINEER.
4. THE CALCULATED SETS SHALL ONLY BE USED AS A GUIDE FOR DRIVING AND THE SET SHALL BE CONFIRMED BY THE IN-SITU PILE TEST.
5. HOWEVER, PILE HYDRAULIC JACKING TO TWICE THE SAFE WORKING LOAD (MINIMUM) SHALL BE USED IF PILE HAMMERING ACTIVITIES CAUSES DISTURBANCES AND DISTRESS (EXCESSIVE VIBRATIONS) TO SURROUNDING BUILDINGS

11. GENERAL NOTES FOR R.C PILES

R.C PILES

1. ALL REINFORCED CONCRETE (R.C.) PRECAST PILES SHALL BE 150MM X 150MM REINFORCED CONCRETE PRECAST PILES OR AS PER SPECIFIED IN THE DRAWINGS.
2. CONCRETE GRADE SHALL BE GRADE 45 MINIMUM FOR NORMAL R.C. PRECAST PILES.
3. THE ALLOWABLE SAFE BEARING CAPACITY OF EACH R.C. PRECAST PILES POINT SHALL BE 25 TONNES.
4. THE EXPECTED PENETRATION DEPTH OF EACH PILE POINT IS 6 TO 15 METRES. THIS IS TO BE CONFIRMED DURING PILE DRIVING WORKS. (UNTIL PILE SET IS ACHIEVED UNLESS OTHERWISE STATED)
5. THE PILE SET SHOULD BE ACHIEVED WITH THE LAST 10 BLOWS FOR LESS THAN 20mm PENETRATION (PILE HAMMER OF ABOUT ONE TONNE WITH HAMMER DROP OF ABOUT 600mm TO ONE METRE)
6. ALL WELDING WORKS FOR JOINING OF PILES SHALL BE CARRIED OUT BY QUALIFIED LICENSED WELDERS.
7. IF ANY OF THE PILE POINTS DOES NOT PENETRATE 6 METRES DEEP INTO THE GROUND (IF PILE SET IS ACHIEVED AT LESS THAN 6 METRES PENETRATION LENGTH), THE CLIENT OR CONTRACTOR SHALL REPORT TO THE C&S CONSULTANT FOR REDESIGN REQUIREMENT OF THE PILE FOUNDATION.

11a. MILD STEEL TUBULAR PILING

- 11a.1 ALL PILES SHALL BE GRADE 43 SEAMLESS MS TUBES 114.3mm  $\varnothing$  x 6.3mm THICK TO B.S. 4848 PART II WITH AN ULTIMATE LOAD CAPACITY OF NOT LESS THAN 240KN.
- 11a.2 ALL PILING WORK SHALL BE CARRIED OUT IN ACCORDANCE TO THE GENERAL SPECIFICATION AS SHOWN IN SPECIFICATION OF MATERIALS AND WORKMANSHIP.

12. NOTES FOR PAD FOOTING

1. ALL PAD FOOTING CONSTRUCTION SHALL BE REFERRED TO THE PAD FOOTING LAYOUT PLAN N AND DETAILS
2. THE DESIGN IS BASED UPON THE GROUND BEARING CAPACITY AT ABOUT 2.0 METRES BELOW EXISTING GROUND LEVEL TO BE 150kN/m<sup>2</sup>
3. CONCRETE GRADE 30 SHALL BE USED FOR ALL PAD FOOTING WORKS

13. NOTES FOR BAKAU PILING

1. WITH A 1/2 TONNE HAMMER AND DROP OF 900mm, THE FINAL SET SHOULD NOT BE MORE THAN 75/10 BLOWS OR THE SET TO BE FINALISED BY THE ENGINEER DURING THE TEST PILING.
2. ALL BAKAU PILES SHOULD BE NOT LESS THAN 75mm  $\varnothing$  (ON AVERAGE), ALL PILES CUT-OFF SHALL BE AT THE LOWEST WATER LEVEL. EXACT LEVEL TO BE DETERMINED ON SITE BY THE ENGINEER.
3. IF PILE REQUIRED TO BE SPliced TOGETHER, A TUBULAR SPlice WITH A HEAVY PIPE 90mm  $\varnothing$  x 600mm LONG x 6mm THICK SHOULD BE USED AT LEAST 4 HOLES SHALL BE PROVIDED IN THE PIPE FOR DRIVING 65mm LONG NAILS SPIKE INTO THE PILE.
4. ACTUAL SPACING OF BAKAU PILES TO BE DECIDED ON SITE.

14. NOTES FOR SAFETY OF EXISTING UNDER GROUND SERVICES

1. MAIN CONTRACTOR TO CARRY OUT PILOT TRENCHING (ADEQUATE GROUND INVESTIGATION) BEFORE CARRYING OUT ANY EXCAVATION WORKS FOR DRAINAGE WORKS, PILING WOKS AND OTHER WORKS THAT MAY AFFECT THE BURIED (UNDER GROUND) EXISTING SERVICES/UTILITIES SUCH AS ELECTRICAL CABLES, FIBRE OPTIC CABLES, TELECOM CABLES, WATER PIPES. .THIS IS IMPORTANT TO PREVENT ANY DAMAGE TO SUCH SERVICES /UTILITIES SAFETY THREAT TO ALL STATEHOLDERS.

15. NOTES FOR WATERPROOFING WORKS :

1. ALL INTERNAL OR EXTERNAL SURFACES OF WATER RETAINING STRUCTURE OR WET AREAS SUCH AS TOILETS, RC ROOF SLABS, RC GUTTERS, M&E ROOMS AND KITCHENS SHALL BE WATERPROOFED WITH APPROVED WATERPROOFING SYSTEM.
2. ALL WATERPROOFING WORKS SHALL BE CARRIED OUT BY MANUFACTURER'S APPROVED INSTALLER/APPLICATOR AND SHALL BE APPLIED IN STRICT ACCORDANCE TO THE MANUFACTURER'S APPROVED PROCEDURES OR AS PER ENGINEER'S APPROVAL.
3. SUFFICIENT CURING TIME SHALL BE ALLOWED BEFORE INSTALLATION OF ANY PROTECTIVE SCREED OR ARCHITECTURAL FINISHES.
4. WATERPROOFING SYSTEMS THAT HAS BEEN APPROVED FOR INSTALLATION SHALL CARRY A 10 YEAR WARRANTY PERIOD BY THE MANUFACTURER OR BY THE MANUFACTURER'S REPRESENTATIVES OR BY THE APPROVED LOCAL DISTRIBUTOR/APPLICATOR.

16. GENERAL NOTES FOR ANY STRUCTURAL STEEL WORKS

1. MAIN CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STEEL WORKS FOR STRUCTURAL ENGINEER'S APPROVAL BEFORE ORDERING, PURCHASING, FABRICATING AND ERECTING ANY STEEL STRUCTURAL WORKS.
2. PROPOSED CONNECTION DETAILS TO BE PROVIDED IN THE STRUCTURAL SHOP DRAWINGS FOR STRUCTURAL ENGINEER'S APPROVAL.
3. ALL STEEL SECTION MEMBERS SHALL BE SAND BLASTED BEFORE APPLYING ANY APPROVED ANTI-CORROSION COATING SYSTEM.
4. ALL WELDING WORKS SHALL BE CARRIED OUT BY QUALIFIED LICENSED WELDERS.

17. NOTES FOR TURFING :

1. ALL TURFS SHALL BE 225MM SQUARE FROM AN APPROVED SOURCE FREE FROM LALLANG AND OTHER WEEDS.
2. BLACK EARTH OF 50MM THICKNESS SHALL BE SPREAD ON TO THE GROUND WHERE TURFING IS TO BE DONE.
3. SPOT TURFING SHALL BE LAID AT 300MM CENTRES.
4. CLOSED TURFING TO BANKS SHALL BE PEGGED IN PLACE WITH 25MM DIAMETER PEGS 225MM LONG.
5. ALL TURFING SHALL BE WATERED UNTIL SATISFACTORILY ESTABLISHED AND ALL TURFING THAT HAS BECOME DEFECTIVE WITHIN SIX MONTHS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. DURING THE PERIOD OF THE WORKS AND MAINTENANCE, THE CONTRACTOR SHALL KEEP ALL TURFED AREAS WATERED, MOWN OR CUT AND CLEARED OF GRASS CUTTING TO THE SATISFACTION OF THE ENGINEER. THE FIRST CUT SHALL BE MADE WHEN THE GRASS IS 100MM HIGH, FOLLOWED BY REGULAR CUTTING SO THAT THE VEGETATION AT NO TIME EXCEEDS 150MM IN HEIGHT.

18. DRAWING NOTE:

1. ALL STRUCTURAL DRAWING ARE DRAWN TO APPROXIMATE SCALE. ANY DISCREPANCY IN STRUCTURAL DRAWING DIMENSIONS, EXACT DIMENSION SHALL BE REFERRED TO STRUCTURAL ENGINEER.

19. GENERAL NOTES FOR FLOOR HARDENER REQUIREMENTS:

1. ALL CONCRETE SLAB SURFACES WHICH ARE NOT COVERED WITH HEAVY DUTY DECORATIVE TILES AND TO BE USED AS CAR PARKS OR ACCESS ROADS (FOR SELECTED AREAS) SHALL BE APPLIED WITH SUITABLE FLOOR HARDENERS SYSTEM (TO INCLUDE POWER FLOAT TROWELLING IF APPLICABLE)

20. GENERAL NOTES FOR BRICKWALL WORKS:

1. ALL BRICKS TO BE USED SHALL BE REGULAR IN SIZE AND APPROVED BY ABCI
2. REINFORCED CONCRETE STIFFENERS (100x100 WITH APPROPRIATE REINFORCEMENTS)SHALL BE PROVIDED AT EVERY INTERVAL OF 3.5m OF BRICK WORK LENGTH

21. NOTES FOR WORKPLACE SAFETY, HEALTH AND ENVIRONMENT COMPLIANCE & INSURANCES & TEMPORARY WORKS:

1. MAIN CONTRACTOR SHALL ENSURE TO COMPLY FULLY WITH ALL PREVAILING RULES, REGULATIONS AND LAWS OF NEGARA BRUNEI DARUSSALAM ON WORKPLACE SAFETY, HEALTH AND ENVIRONMENTAL ASPECTS THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD AND DEFECTS LIABILITY PERIOD
2. MAIN CONTRACTOR SHALL ENSURE THAT ALL APPLICABLE INSURANCES ARE VALID THROUGHOUT THE CONSTRUCTION PERIOD AND DEFECTS LIABILITY PERIOD SUCH AS CONTRACTOR'S ALL RISK INSURANCE OR OTHERS SUCH AS WORKMEN COMPENSATION INSURANCE POLICY, PUBLIC LIABILITY INSURANCE POLICY AND FIRE INSURANCE POLICY(WHICHEVER IS APPLICABLE AS PER SUPERINTENDING OFFICERS INSTRUCTIONS)
3. MAIN CONTRACTOR SHALL EMPLOY INDEPENDENT CONSULTANT TO CARRYOUT DESIGN WORKS FOR ALL TEMPORARY WORKS AND THAT SUCH TEMPORARY WORKS DESIGN REQUIREMENT ARE FULLY COMPLIED DURING ITS EXECUTION

22. NOTES FOR ROOF TRUSSES:

1. ROOF TRUSSES SHALL BE LIGHTWEIGHT PROPRIETARY SYSTEM SUCH AS LYSAGTH SMART TRUSS SYSTEM OR APPROVED TECHNICAL EQUIVALENT SHALL BE DESIGNED BY MANUFACTURER COMPANY.
2. THE INSTALLATION WORKS SHALL BE CARRIED OUT BY MANUFACTURER'S APPROVED INSTALLER.



**SERI BUMI CONSULTANT**  
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TEL: 673-2427275 FAX: 673-2427279  
E-MAIL: sbc.brunei@gmail.com

CLIENT:

NO.	AMENDMENTS	BY	DATE	

DESIGNED BY	THAN ZAW TUN	
DRAWN BY	SAI	
CHECKED BY	MD. YUNUS	
APPROVED BY		13/09/2022

SCALE:

N.T.S

TITLE:

GENERAL NOTES

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

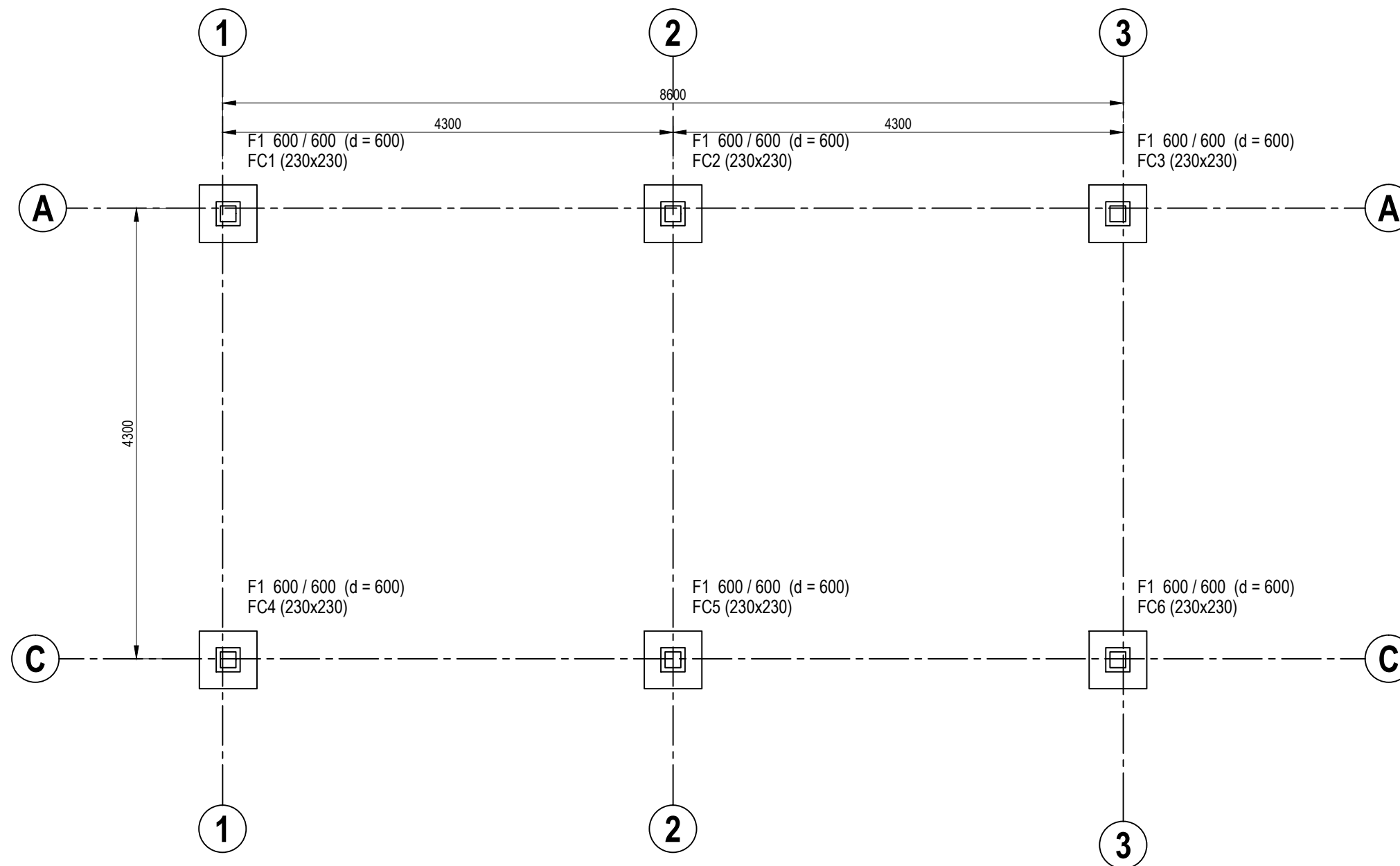
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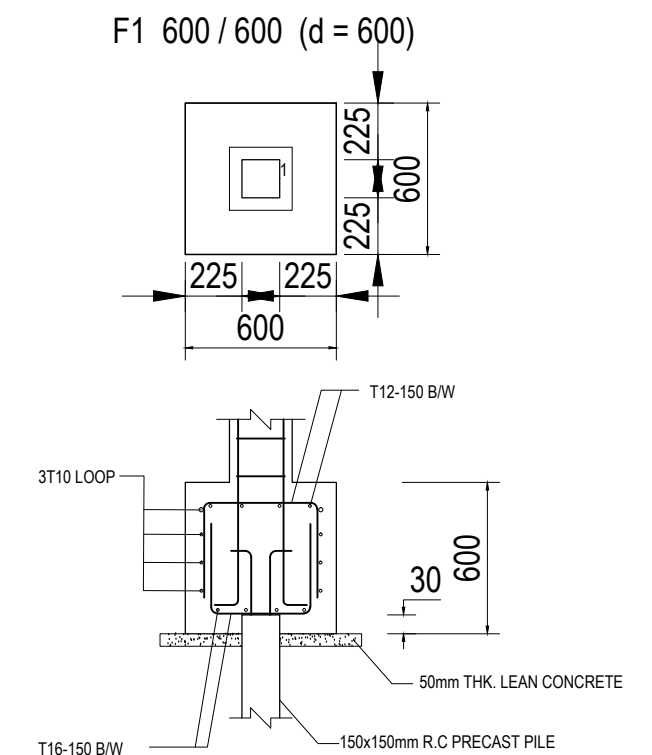
SBC/Q366/AFLQ/2P/RC/G - 100

REV:



# 150x150mm R.C PRECAST PILE FOUNDATION LAYOUT PLAN

SCALE 1 : 50



**SERI BUMI CONSULTANT**  
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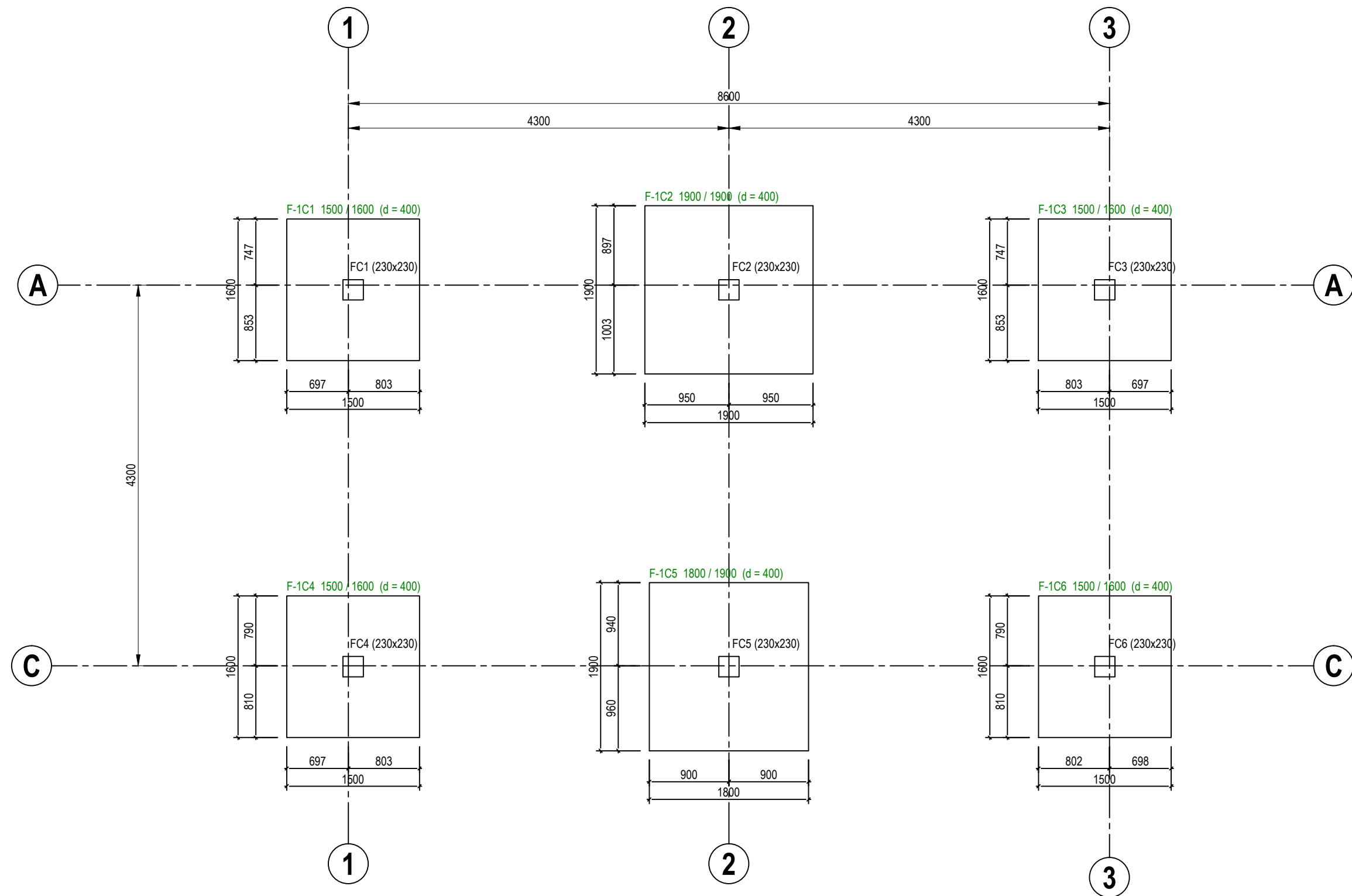

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DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	13/09/2022

SCALE:  
1:50

TITLE:	125x125mm R.C PRECAST PILE FOUNDATION LAYOUT PLAN
PROJECT:	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLO/2P/RC/CS - 100
REV:	



# PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 100 KN/m<sup>2</sup>] SCALE 1 : 50



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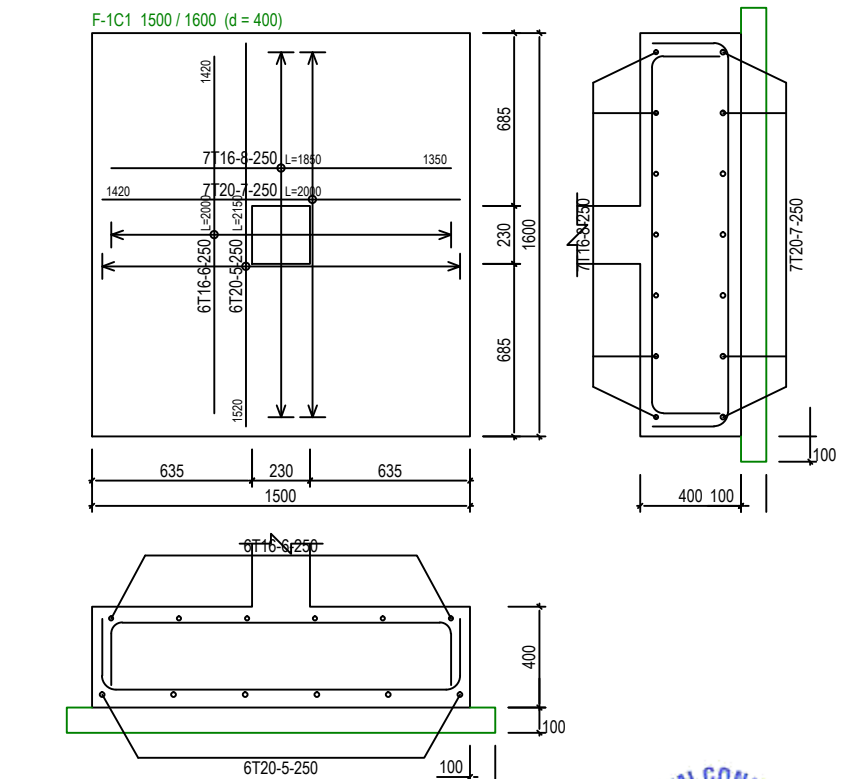
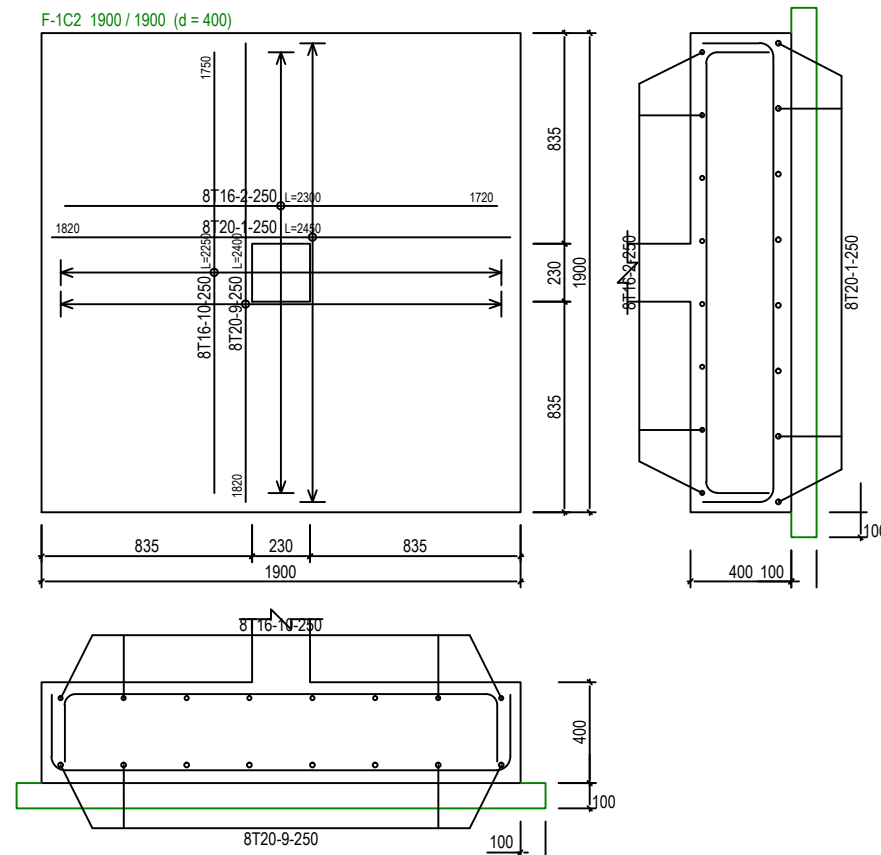
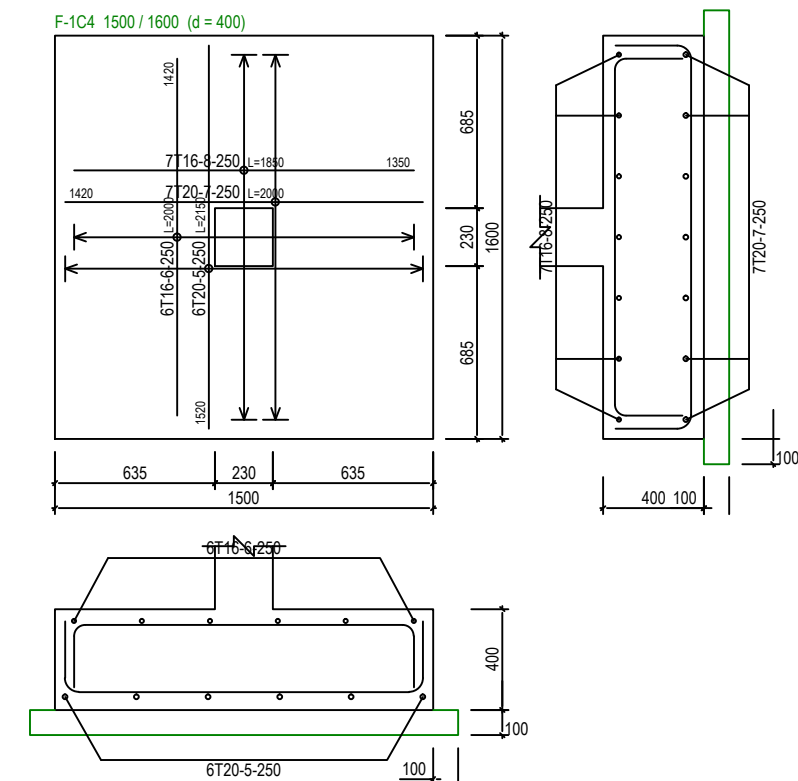
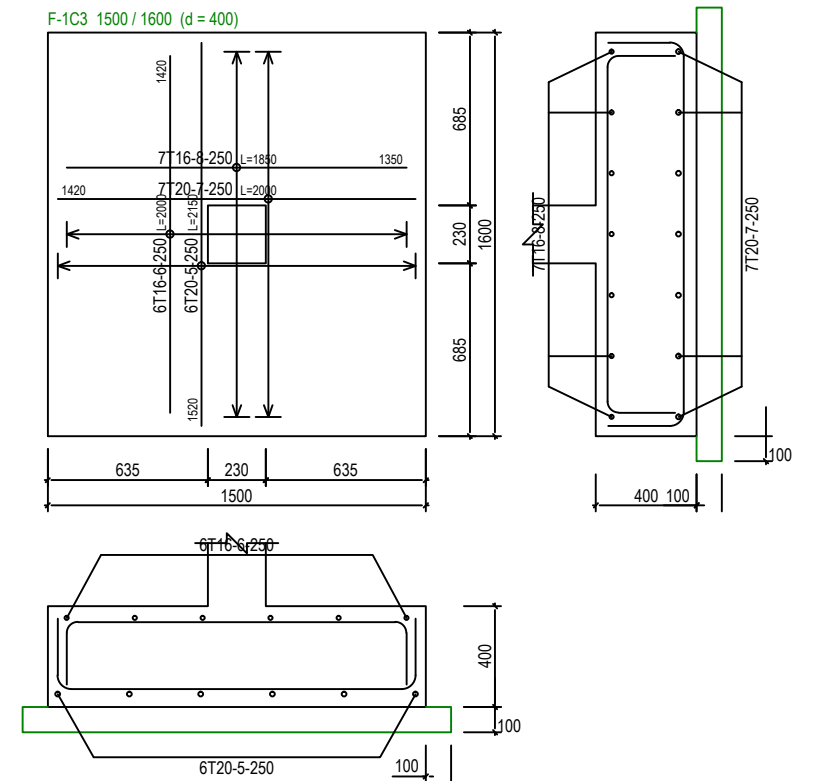
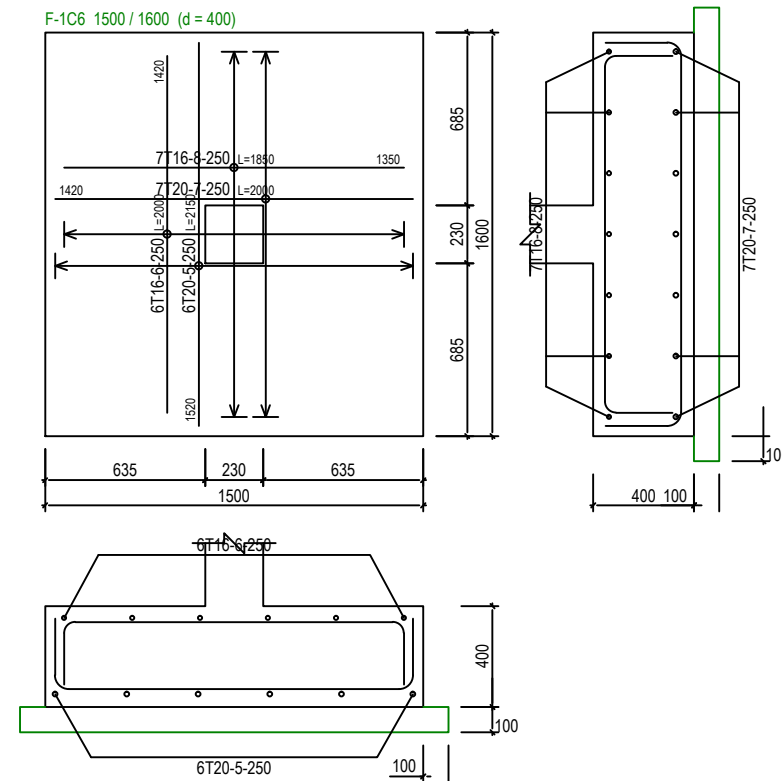
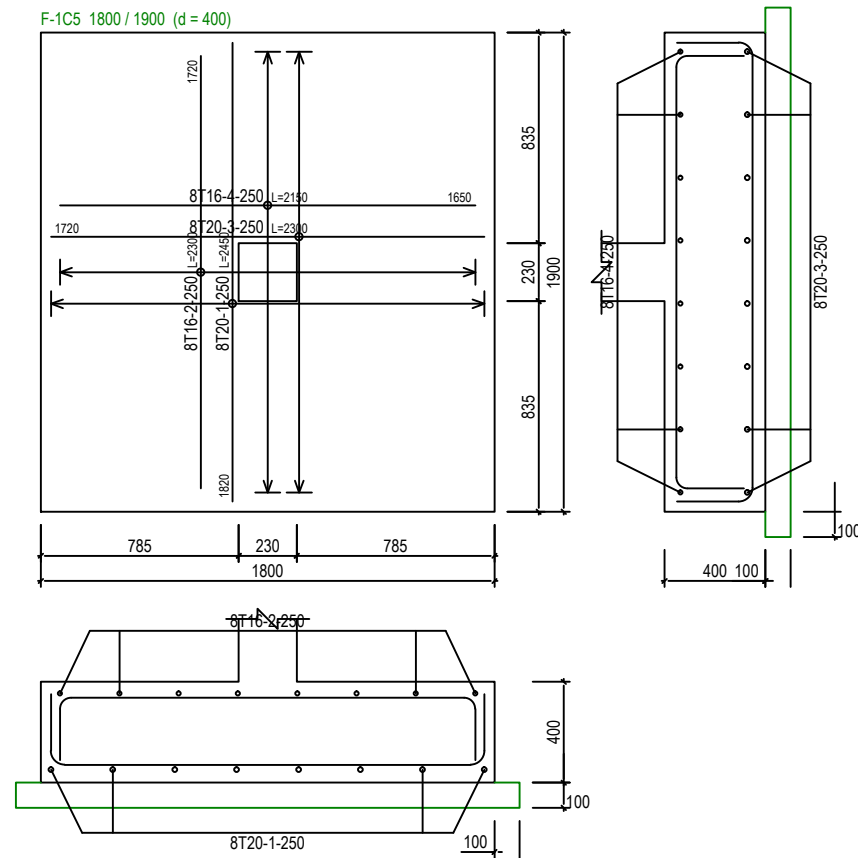

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APPROVED BY	
DATE	13/09/2022

SCALE:  
1:50

TITLE:  
PAD FOOTING FOUNDATION LAYOUT PLAN  
 [ALLOWABLE STRESS OF SOIL 100KN/m<sup>2</sup>]  
 PROJECT:  
 PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
 BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLQ/2P/RC/CS - 101
REV:	



# PAD FOOTING DETAILS [ALLOWABLE STRESS OF SOIL 100 KN/m<sup>2</sup>] SCALE 1:30



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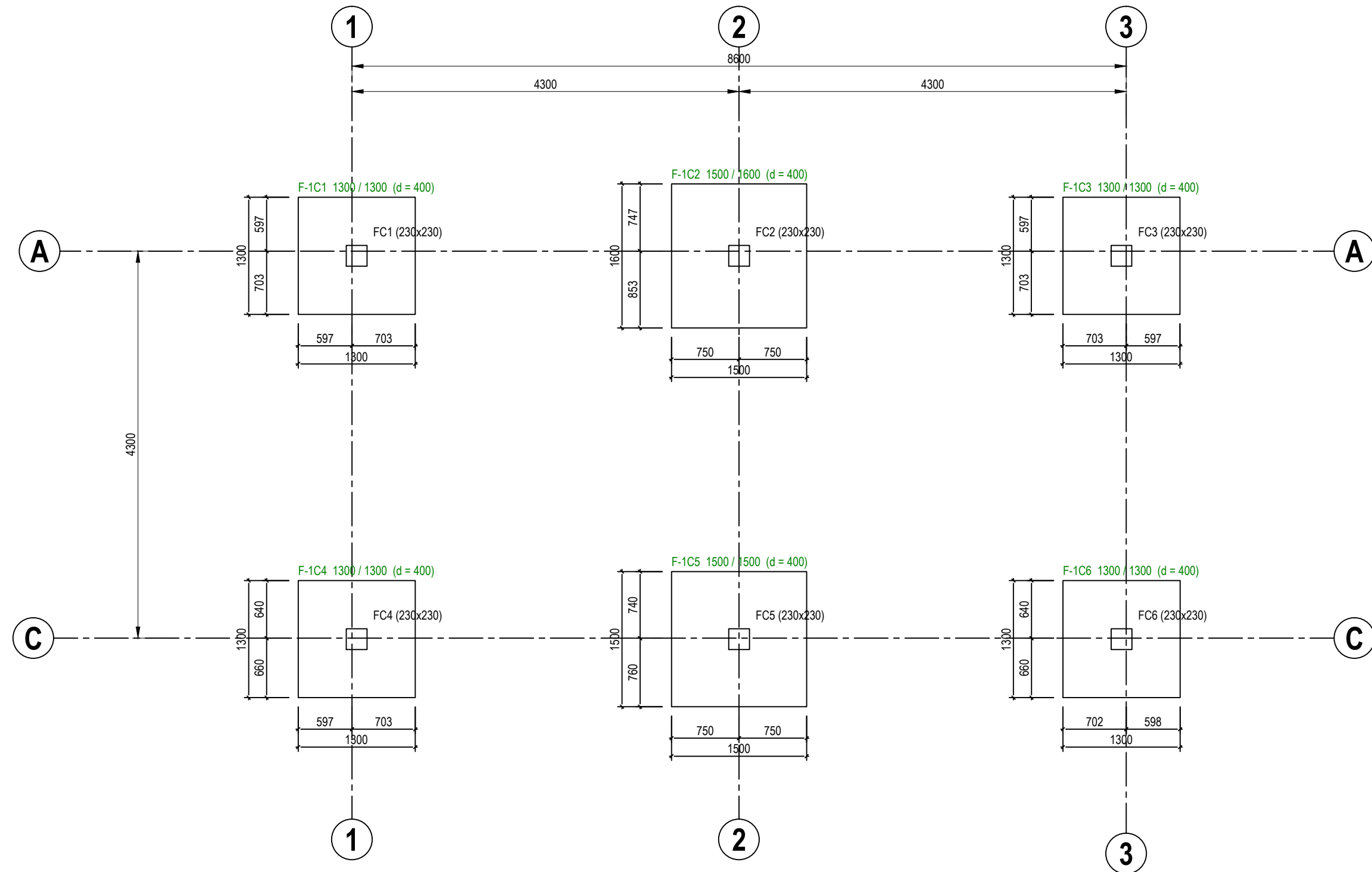
NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	DATE 13/09/2022

SCALE:  
1:30

TITLE:  
PAD FOOTING DETAILS  
[ALLOWABLE STRESS OF SOIL 100KN/m<sup>2</sup>]  
 PROJECT:  
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLQ/2P/RC/CS - 101A
REV:	



# PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 150 KN/m<sup>2</sup>] SCALE 1 : 50



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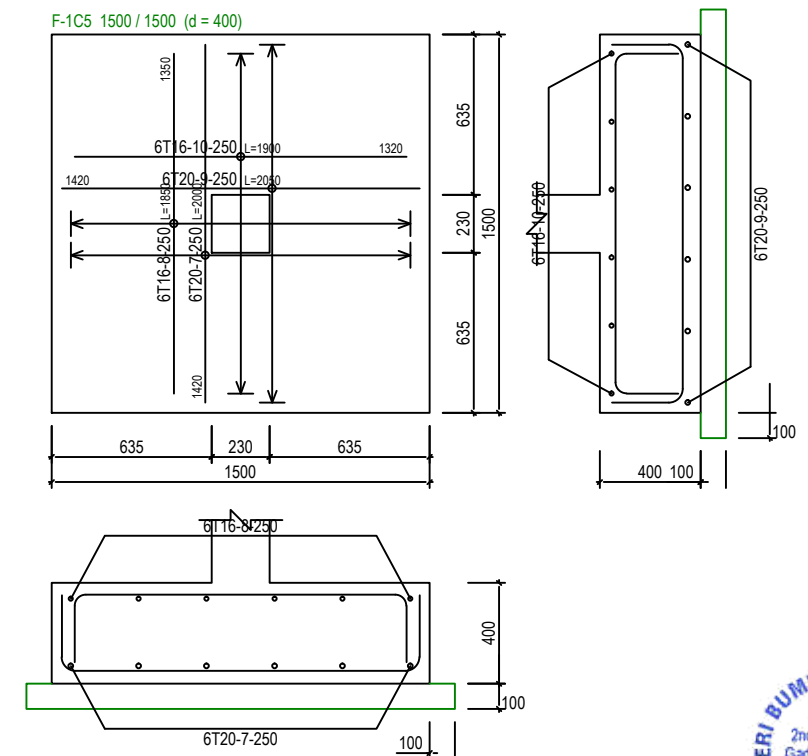
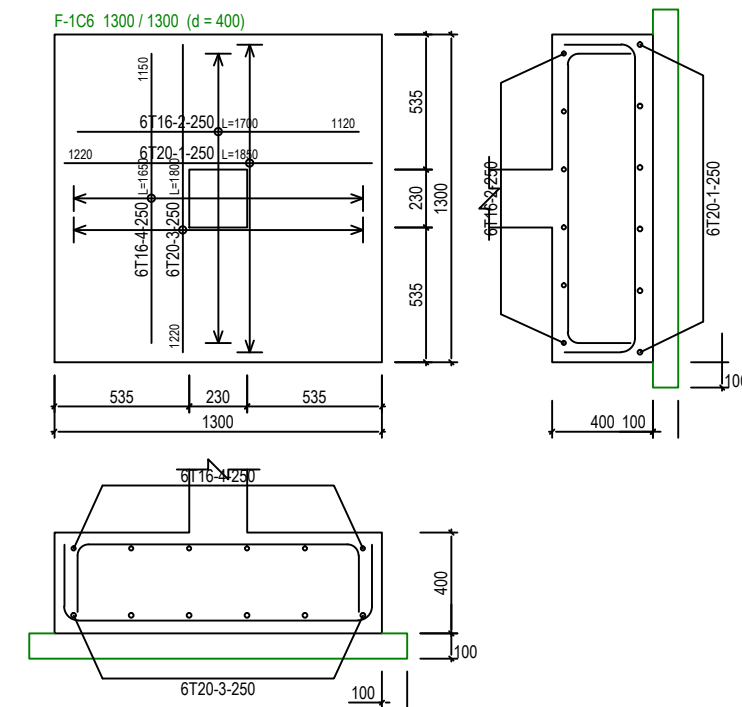
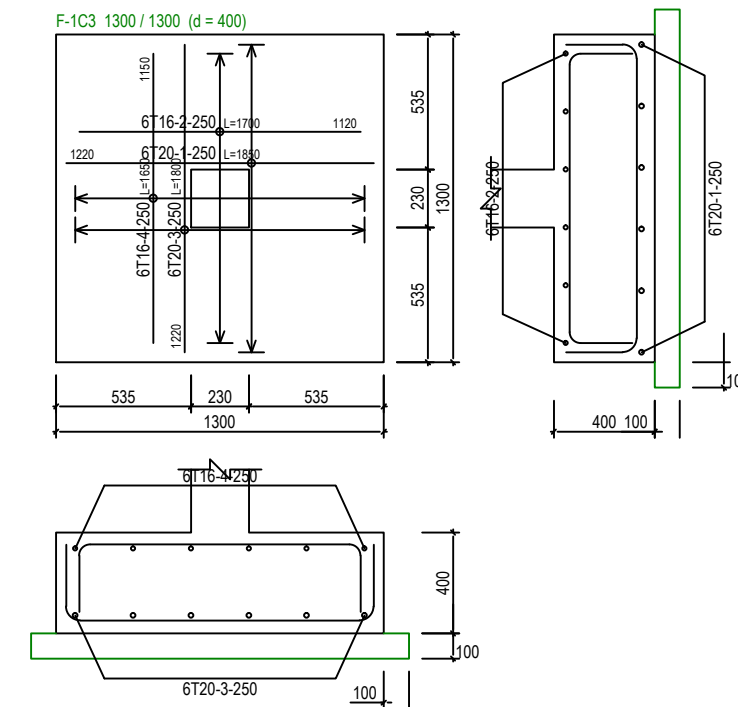
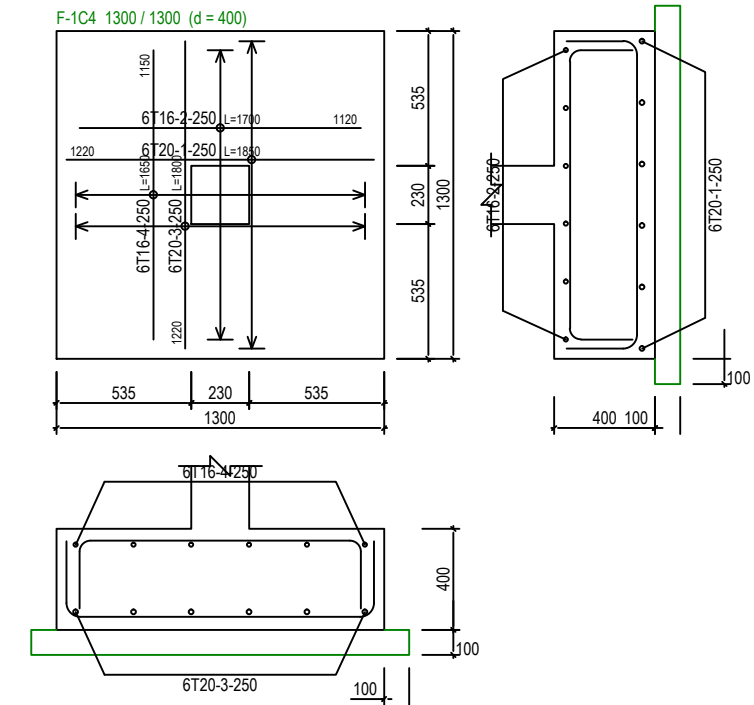
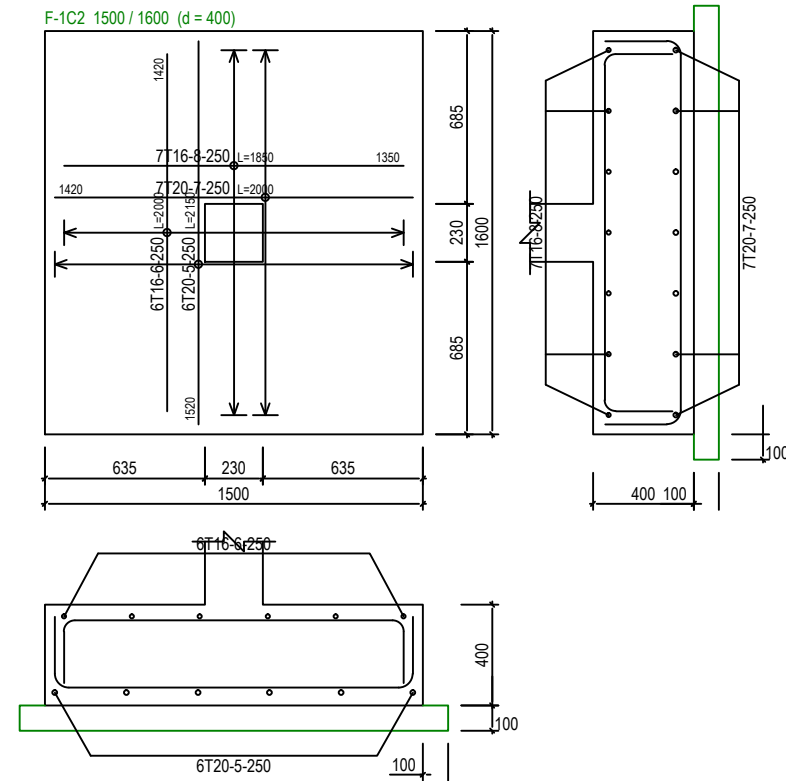
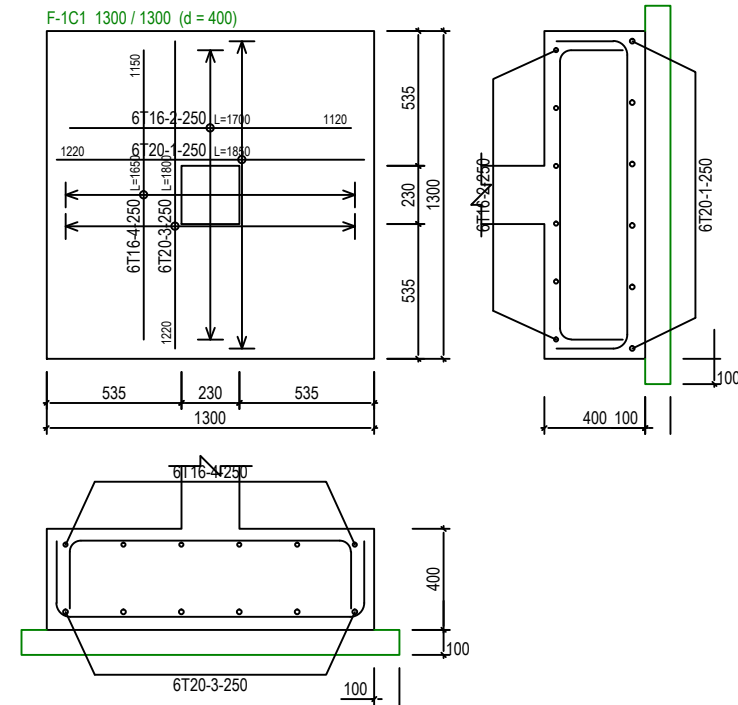

NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	13/09/2022

SCALE:  
1:50

TITLE:  
PAD FOOTING FOUNDATION LAYOUT PLAN  
[ALLOWABLE STRESS OF SOIL 150KN/m<sup>2</sup>]  
PROJECT:  
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLO/2P/RC/CS - 102
REV:	



# PAD FOOTING DETAILS [ALLOWABLE STRESS OF SOIL 150 KN/m<sup>2</sup>] SCALE 1:30



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CLIENT:

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DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	13/09/2022

SCALE:

1:30

TITLE:  
PAD FOOTING DETAILS  
[ALLOWABLE STRESS OF SOIL 150KN/m<sup>2</sup>]  
PROJECT:  
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

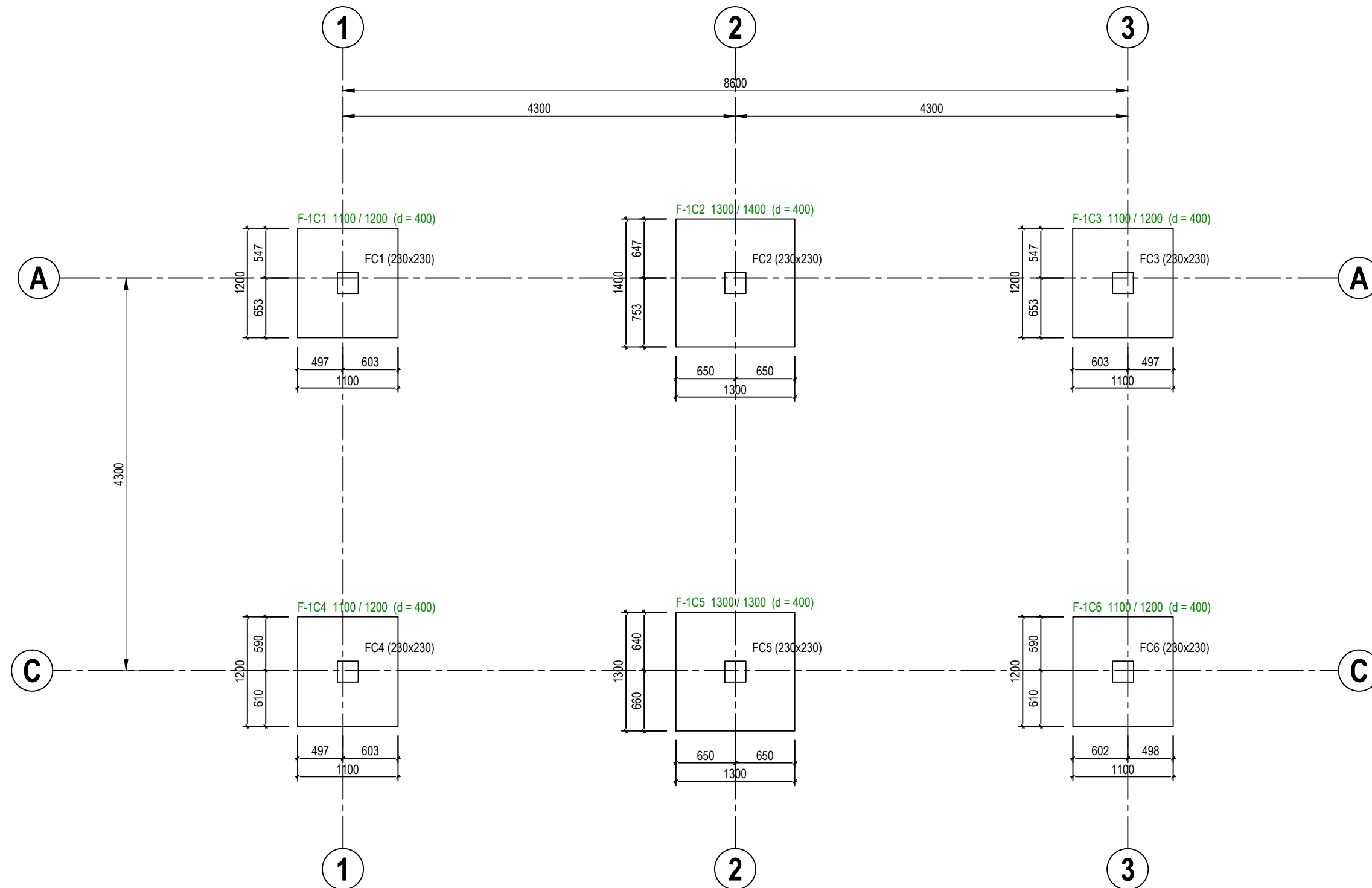
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SHEET NO:

DRAWING NO:

SBC/Q366/AFLQ/2P/RC/CS - 102A

REV:



# PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 200 KN/m<sup>2</sup>] SCALE 1 : 50



**SERI BUMI CONSULTANT**  
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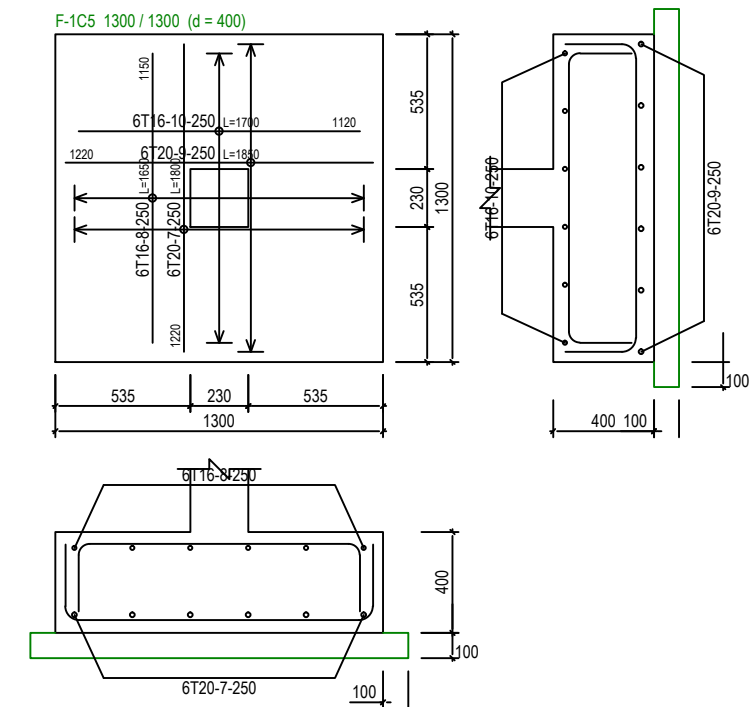
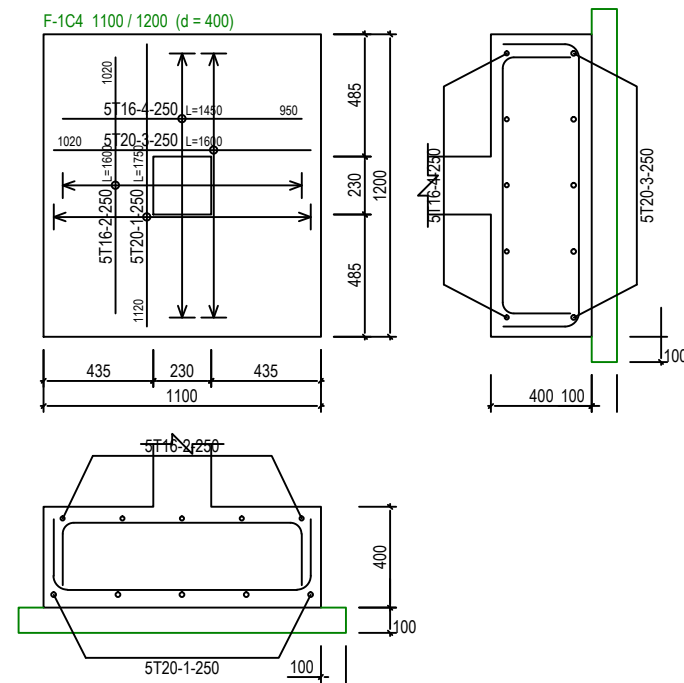
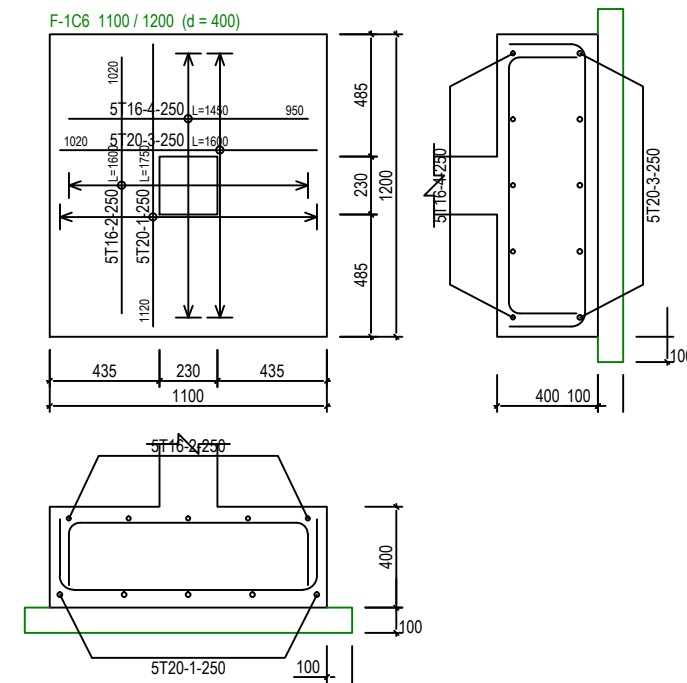
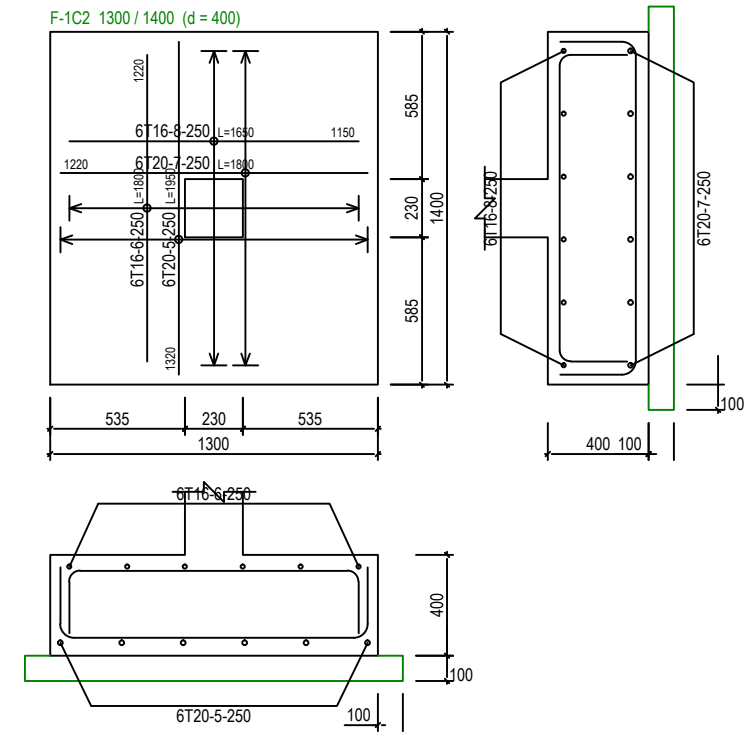
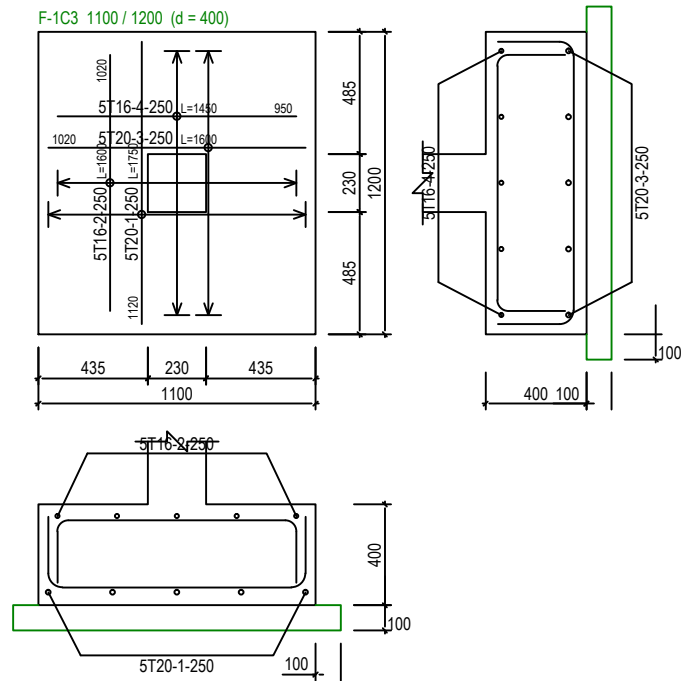
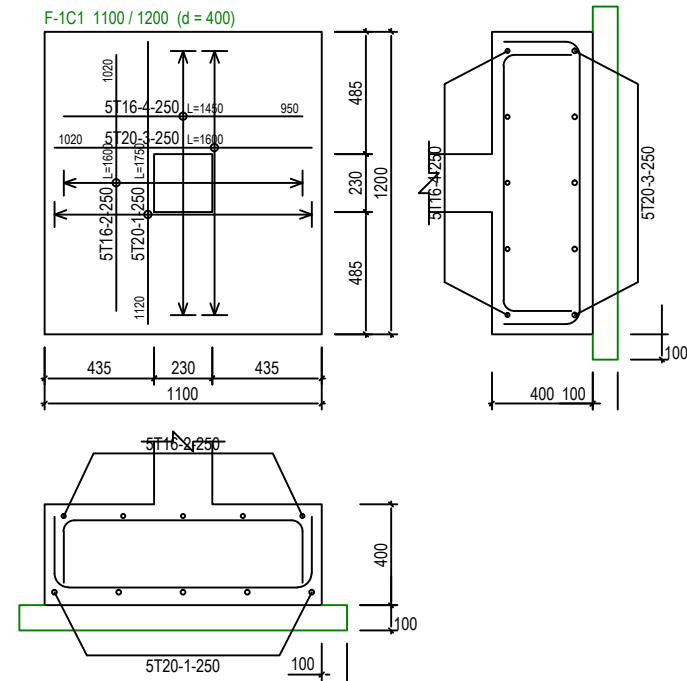

NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	13/09/2022

SCALE:  
1:50


TITLE:  
PAD FOOTING FOUNDATION LAYOUT PLAN  
[ALLOWABLE STRESS OF SOIL 200KN/m<sup>2</sup>]  
PROJECT:  
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

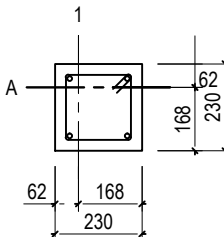
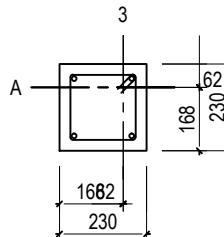
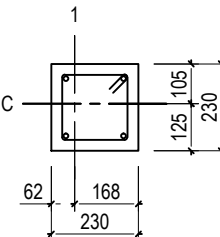
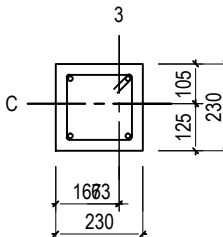
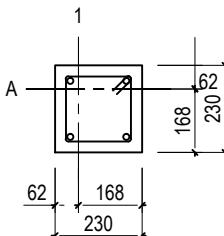
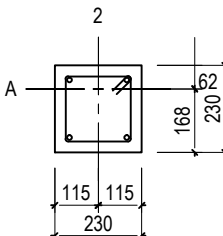
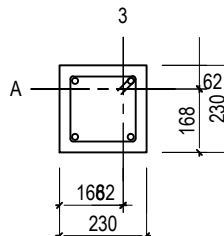
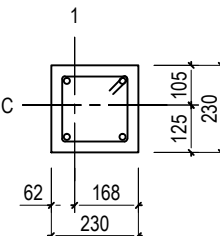
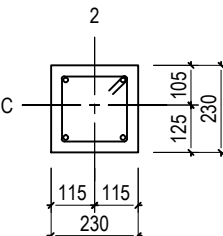
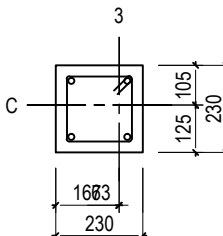
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SHEET NO:	
DRAWING NO:	SBC/Q366/AFLO/2P/RC/CS - 103
REV:	



# PAD FOOTING DETAILS [ALLOWABLE STRESS OF SOIL 200 KN/m<sup>2</sup>] SCALE 1:30



<div>(sbc)</div> <div>SERI BUMI CONSULTANT CIVIL &amp; STRUCTURAL ENGINEERING CONSULTANT  No: 14, 2nd FLOOR, BLOCK A, GADONG CENTRAL, SIMPANG 21, JALAN GADONG, BSB, BRUNEI DARUSSALAM TEL: 673-2427275 FAX: 673-2427279 E-MAIL: sbc.brunel@gmail.com</div>	CLIENT:					DESIGNED BY	THAN ZAW TUN	SCALE:  1:30	TITLE: PAD FOOTING DETAILS [ALLOWABLE STRESS OF SOIL 200KN/m <sup>2</sup> ]	JOB NO:				
						DRAWN BY	SAI			SHEET NO:				
						CHECKED BY	MD. YUNUS							
						APPROVED BY				DATE	13/09/2022	PROJECT: PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)	DRAWING NO:	REV:
		NO.	AMENDMENTS		BY	DATE				SBC/Q366/AFLQ/2P/RC/CS - 103A				

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MD. YUNUS

DATE  
13/09/2022

SCALE:

N.T.S

TITLE:

COLUMN SCHEDULE

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:

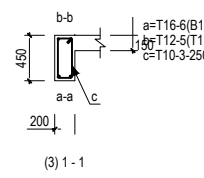
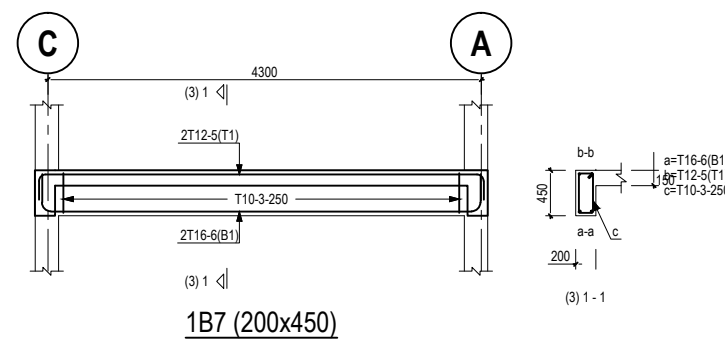
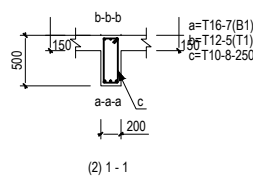
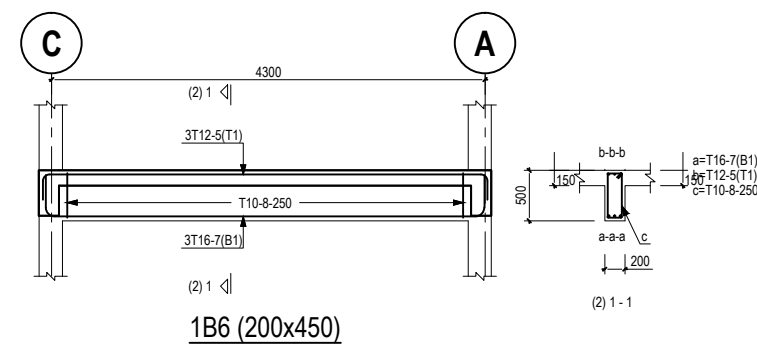
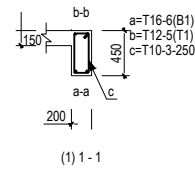
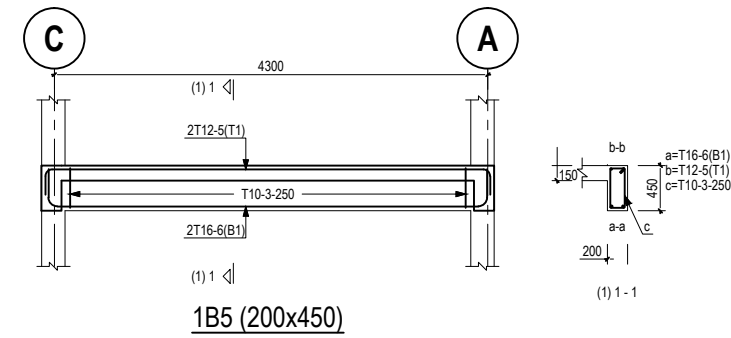
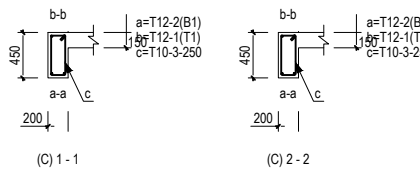
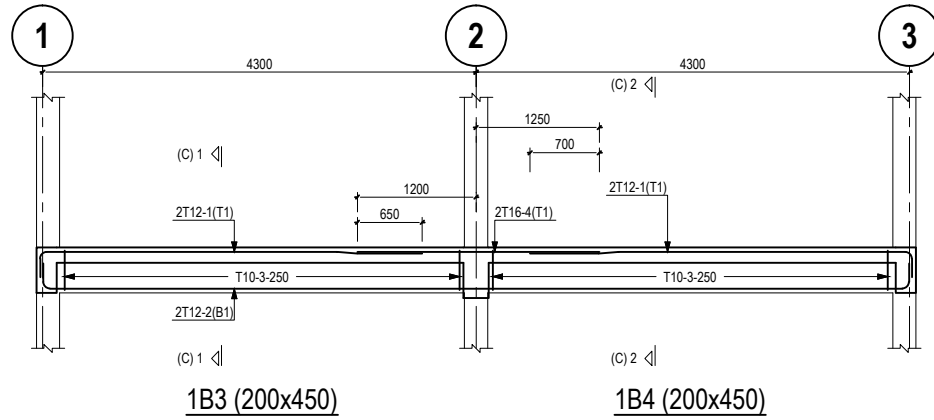
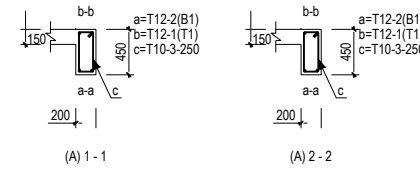
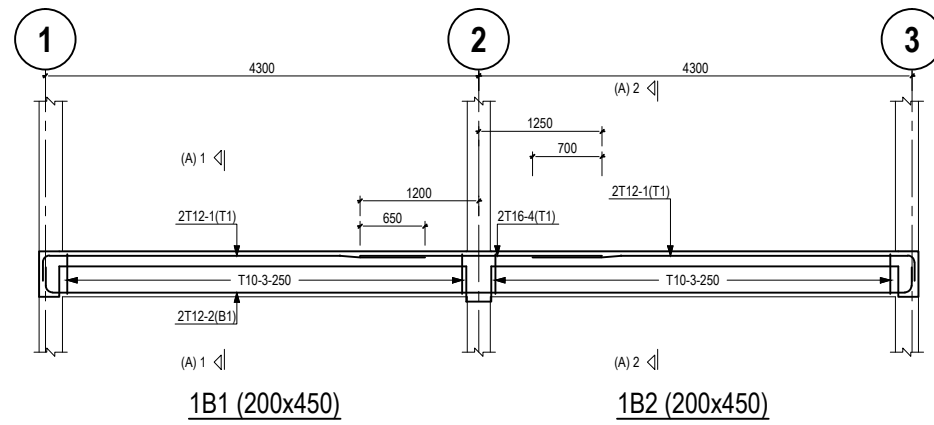
SHEET NO:

DRAWING NO:

SBC/Q366/AF/LQ/2P/RC/CS - 104

REV:





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TEL: 673-2427275 FAX: 673-2427279  
E-MAIL: sbc@brunei@gmail.com

CLIENT:

NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	13/09/2022

SCALE:

N.T.S

TITLE:  
GROUND FLOOR BEAM DETAILS

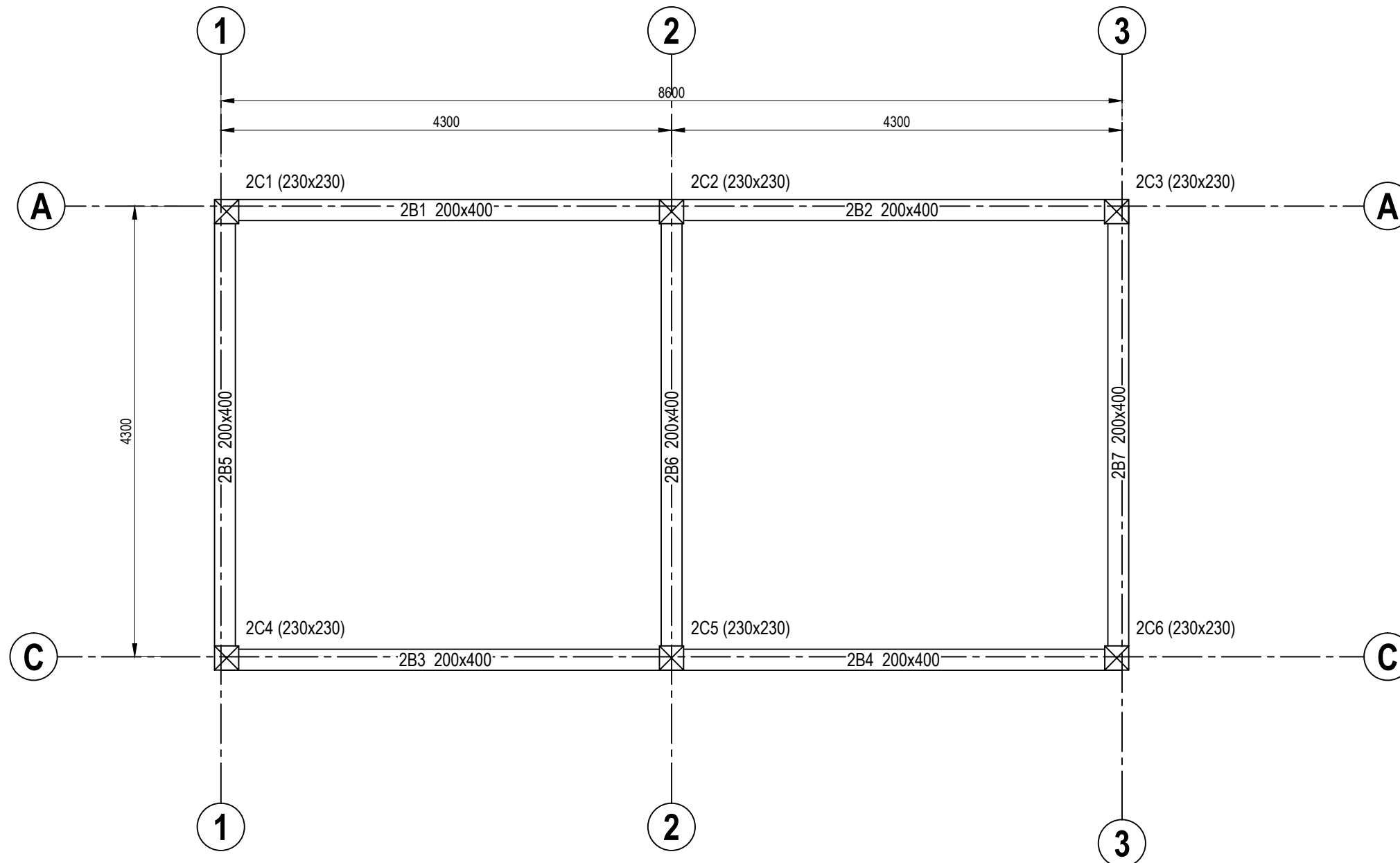
PROJECT:  
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:

SHEET NO:

DRAWING NO:  
SBC/Q366/AFLQ/2P/RC/CS - 201

REV:



**ROOF BEAM LAYOUT PLAN**  
SCALE 1 : 50



**SERI BUMI CONSULTANT**  
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E-MAIL: sbc.brunel@gmail.com

CLIENT:

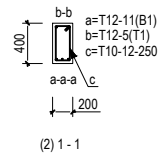
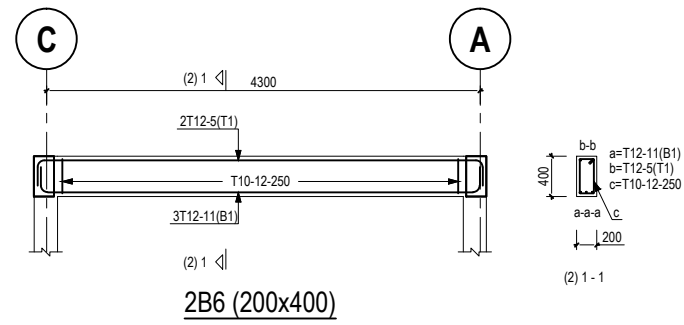
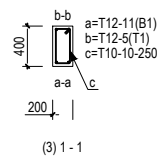
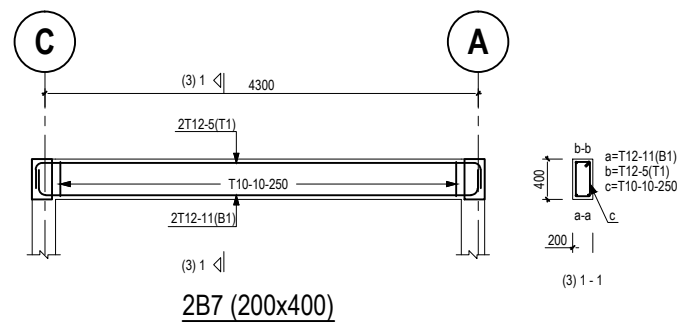
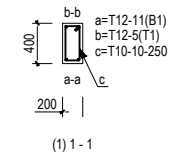
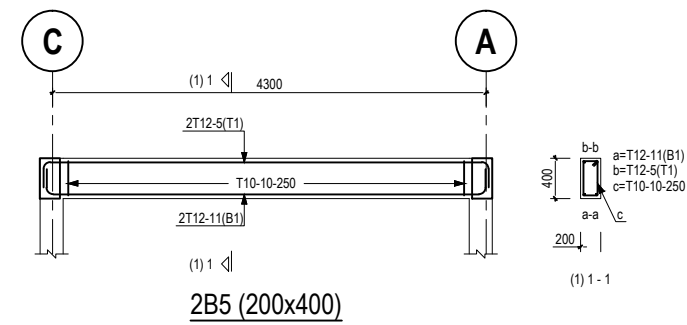
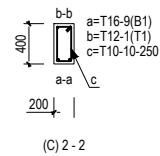
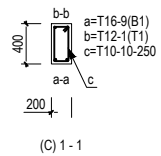
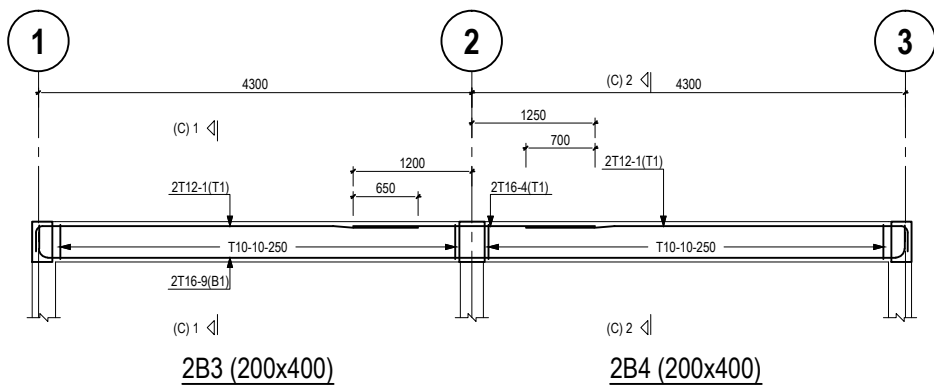
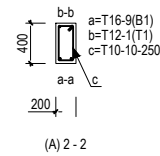
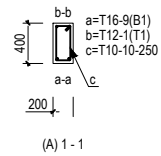
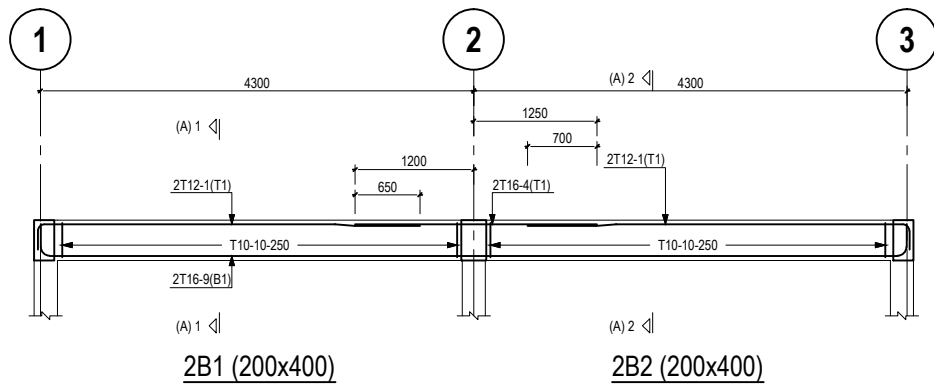

NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	13/09/2022

SCALE:  
1:50

TITLE:  
ROOF BEAM LAYOUT PLAN  
PROJECT:  
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLO/2P/RC/CS - 300
REV:	



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NO.	AMENDMENTS	BY	DATE

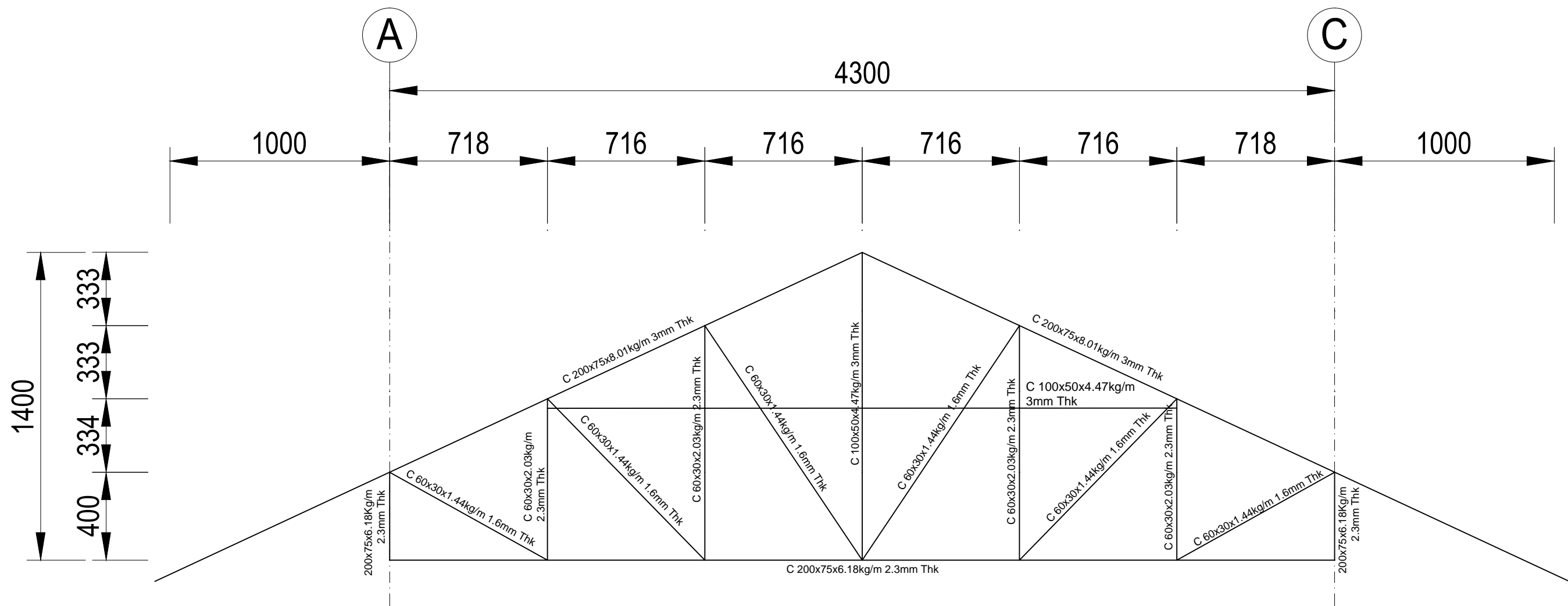
DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	13/09/2022

SCALE:  
N.T.S

TITLE:  
ROOF BEAM DETAILS  
PROJECT:  
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLQ/2P/RC/CS - 301
REV:	





ROOF TRUSS SECTION(FOR ROOF TRUSS TO  
REINFORCE CONCRETE BEAM CONNECTION)



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NO.	AMENDMENTS	BY	DATE

DESIGNED BY

THAN ZAW TUN

DRAWN BY

SAI

CHECKED BY

MD. YUNUS

APPROVED BY

DATE

20/09/2022

SCALE:

1:20

TITLE:

ROOF TRUSSES SECTION

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

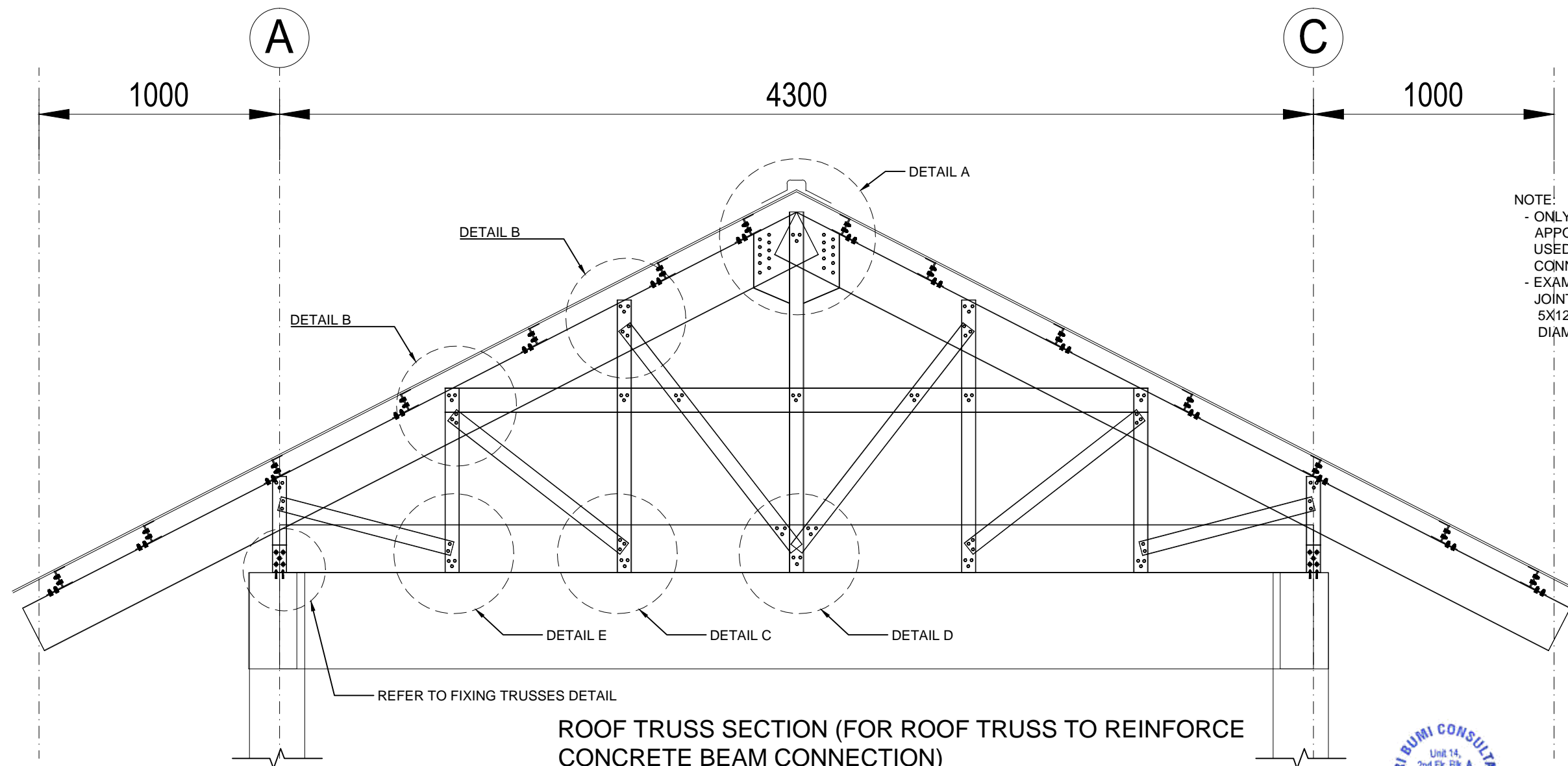
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SHEET NO:

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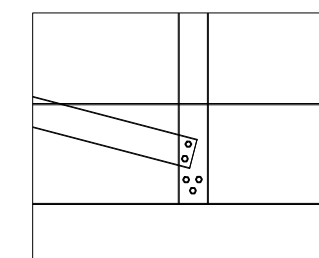
SBC/Q366/AFLO/2P/RC/CS - 401

REV:



NOTE:

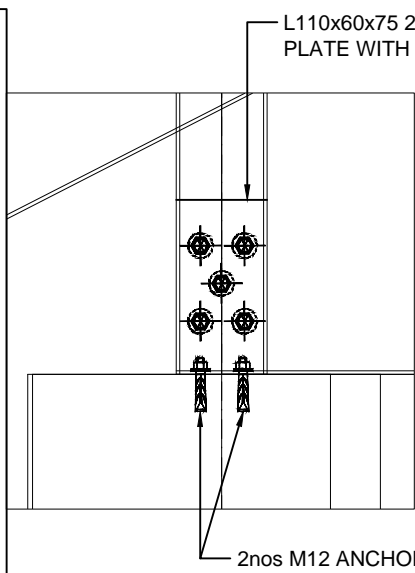
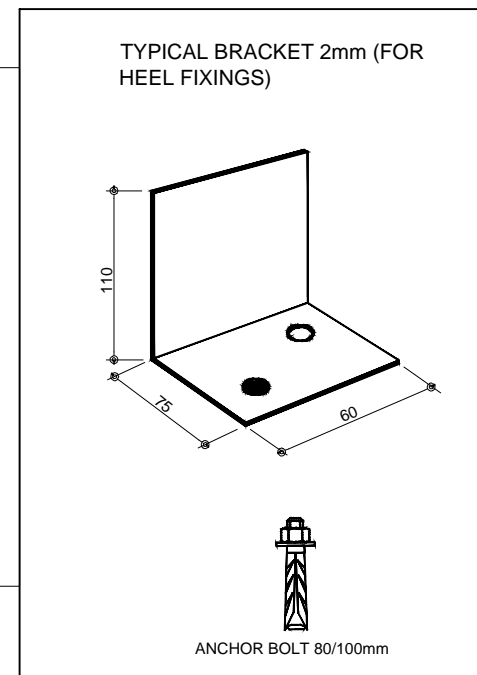
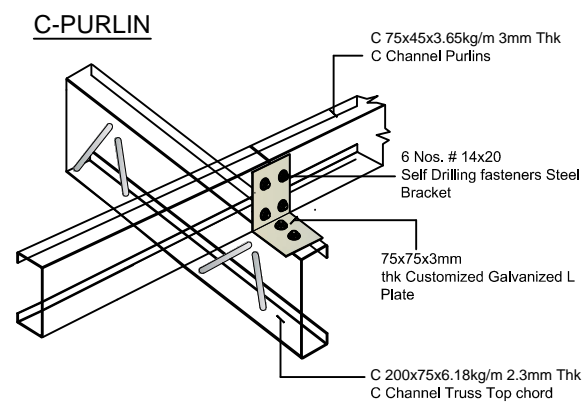
- ONLY SUITABLE AND APPROVED SCREWS BY APPOINTED SUPERVISION CONSULTANT TO BE USED FOR ROOF TRUSSES MEMBERS CONNECTION.
- EXAMPLE OF SCREW LABELLING FOR VARIOUS JOINTS  
5X12-14X20 MEANS 5 NOS OF 12 TO 14MM DIAMETER OF 20MM LENGTH SCREW TYPE.



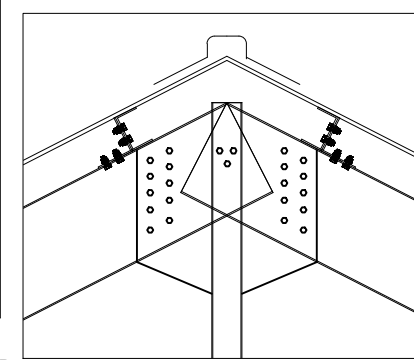
DETAIL E  
5 x 12-14 x 20  
SCREW



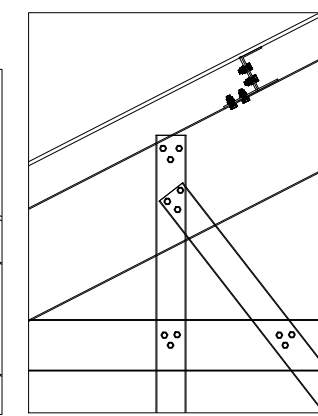
### ROOF TRUSS SECTION (FOR ROOF TRUSS TO REINFORCE CONCRETE BEAM CONNECTION)



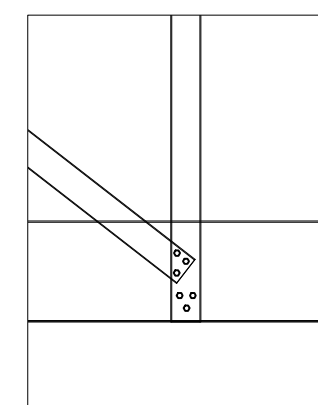
FIXING TRUSSES  
(HEEL JOINT)



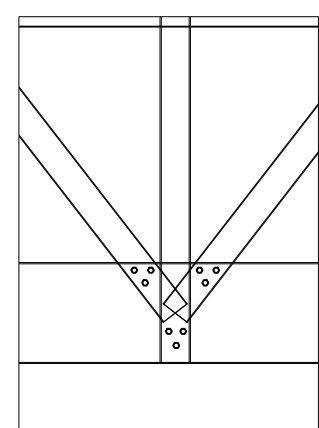
DETAIL A  
23 x 12-14 x 20  
SCREW



DETAIL B  
6 x 12-14 x 20  
SCREW



DETAIL C  
6 x 12-14 x 20  
SCREW

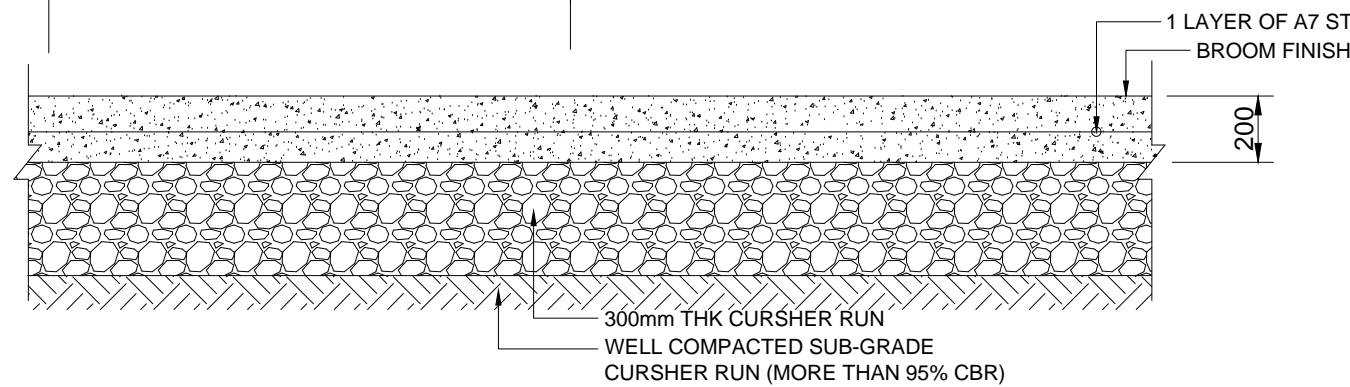


DETAIL D  
9 x 12-14 x 20  
SCREW

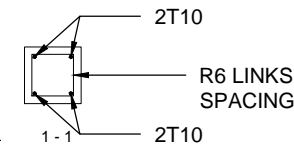


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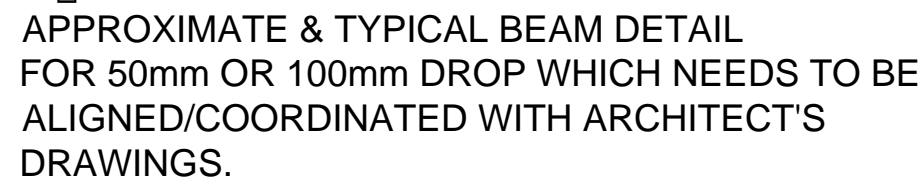
CLIENT:		DESIGNED BY:	THAN ZAW TUN	SCALE:	1:20	TITLE:	ROOF TRUSSES AND PURLIN CONNECTIONS DETAILS	JOB NO:	
		DRAWN BY:	SAI			PROJECT:	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)	SHEET NO:	
		CHECKED BY:	MD. YUNUS					DRAWING NO:	SBC/Q366/AFLO/2P/RC/CS - 402
		APPROVED BY:			DATE	20/09/2022		REV:	
NO.	AMENDMENTS	BY	DATE						



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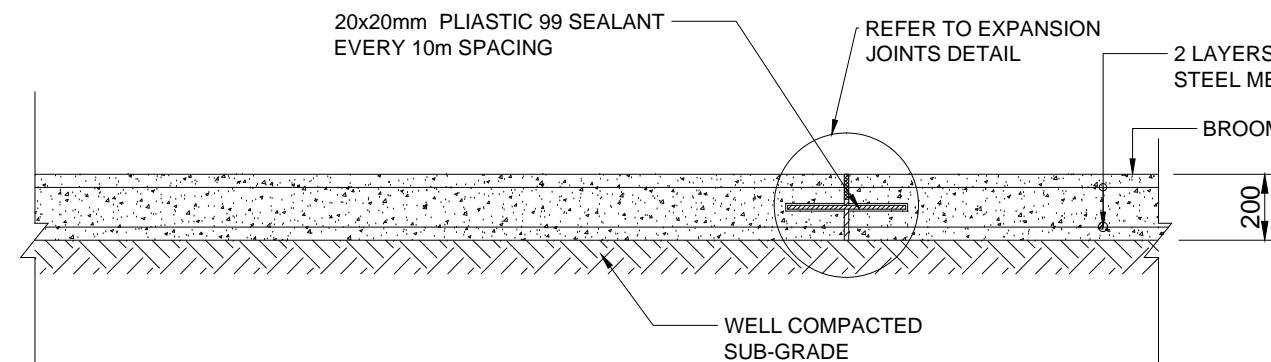


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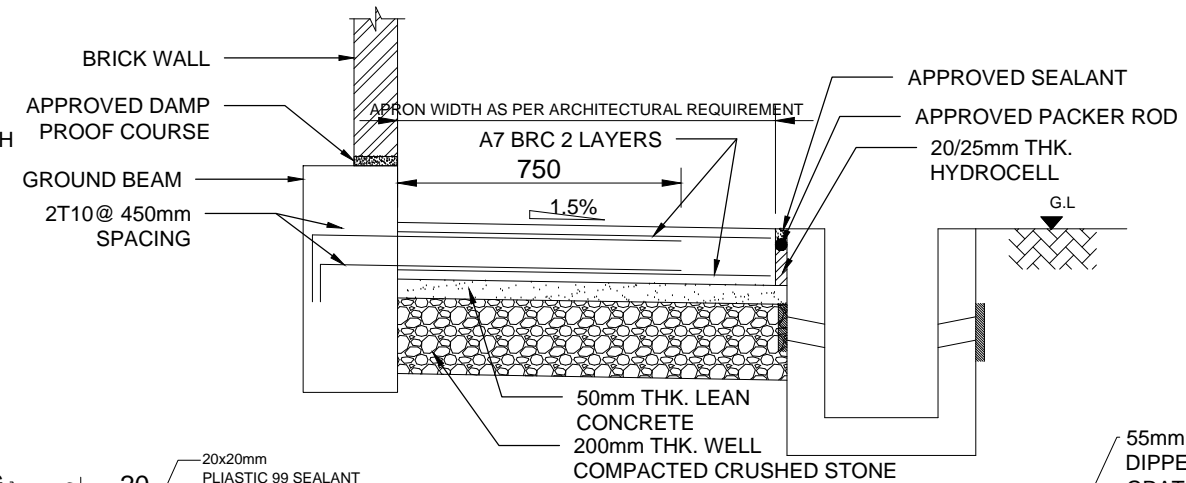
SCALE 1 : 20





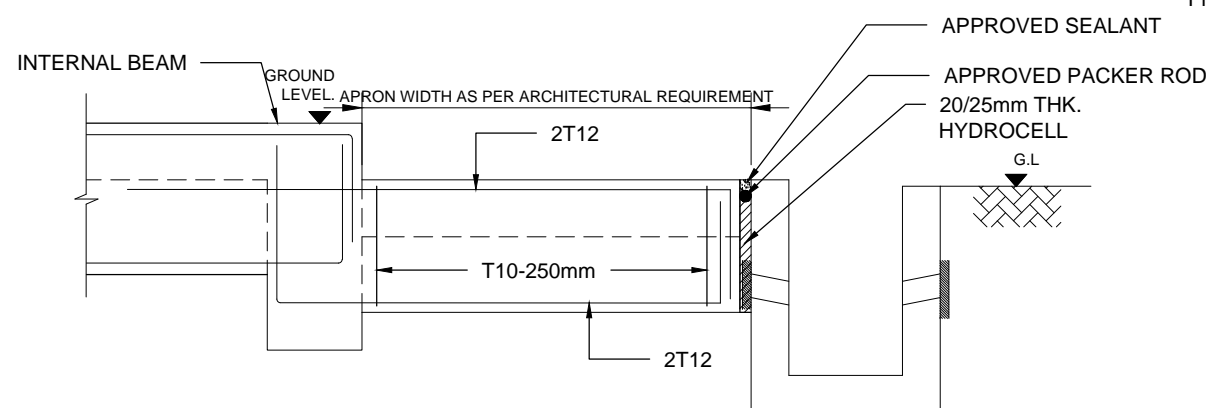
**TYPICAL ACCESS ROAD DETAIL/CAR PARK SLAB DETAIL**

SCALE 1 : 20



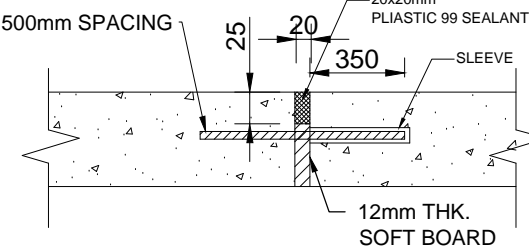
**TYPICAL APRON SLAB DETAIL**

SCALE 1 : 20



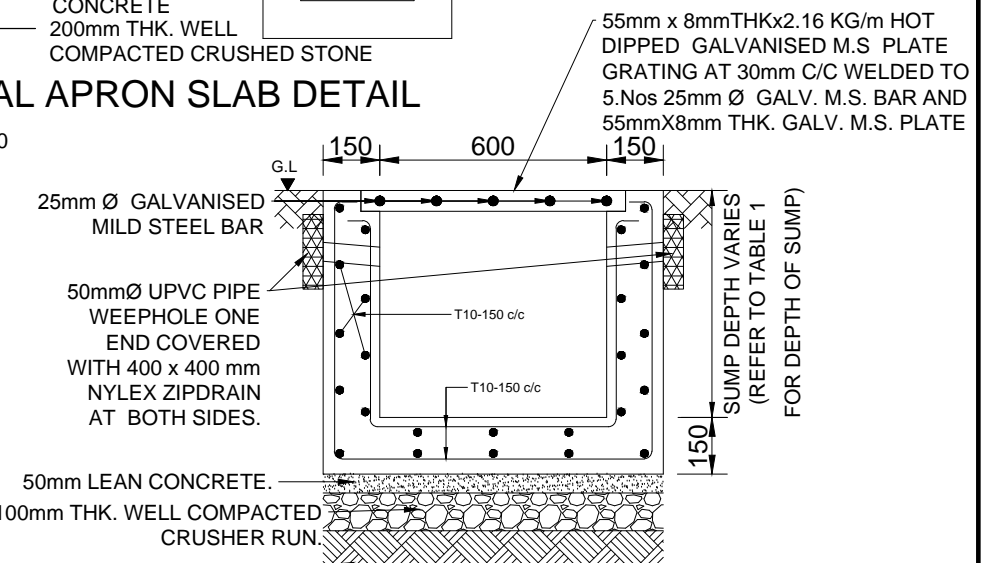
**TYPICAL APRON BEAM DETAIL(200x450)**

SCALE 1 : 20



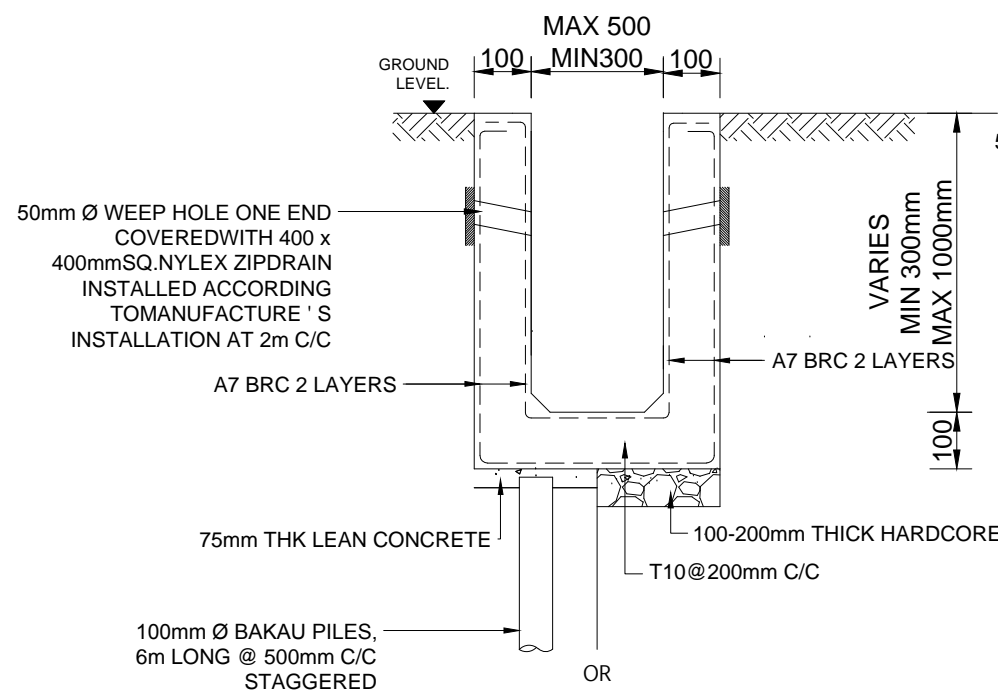
**EXPANSION JOINTS DETAIL**

SCALE 1 : 20



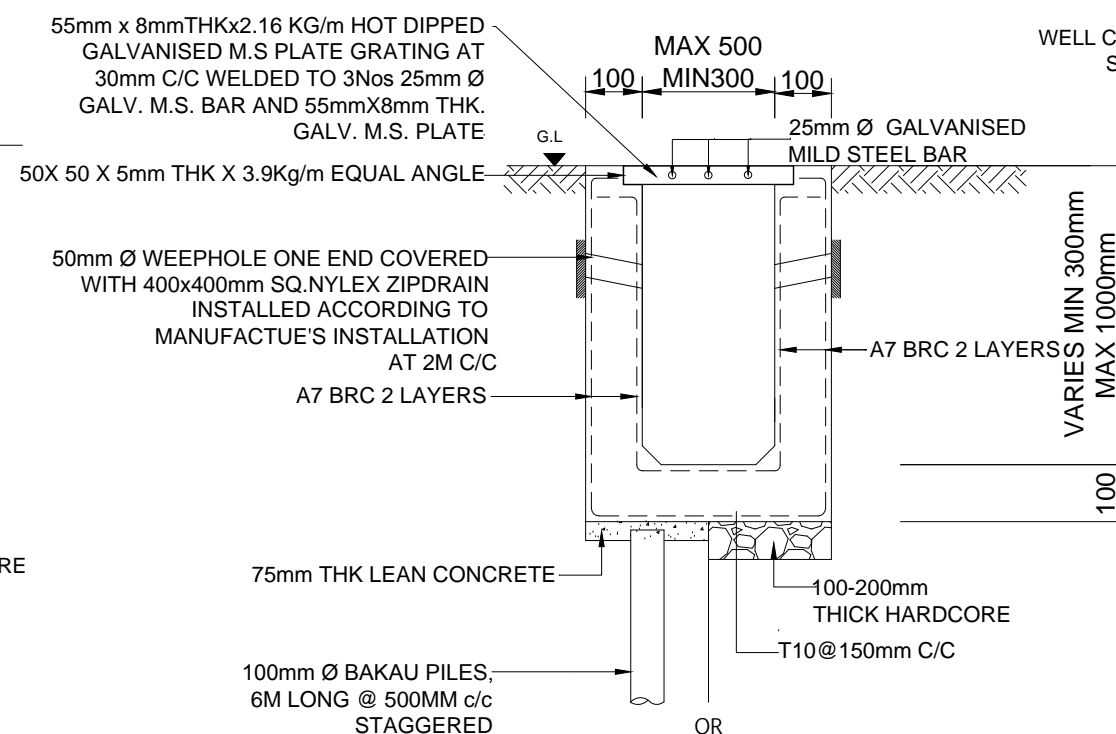
**TYPICAL SECTION 'Z-Z' 600x600mm R.C SUMP DETAIL**

SCALE 1 : 20



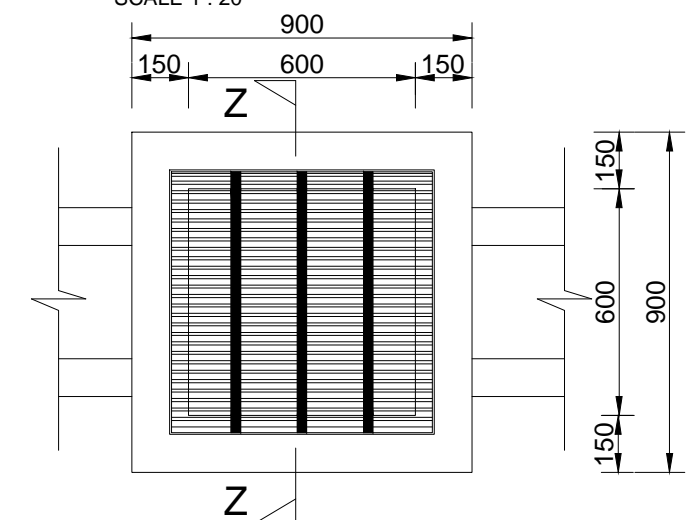
**R.C DRAIN DETAIL**

SCALE 1 : 20



**R.C DRAIN WITH GRATING DETAIL**

SCALE 1 : 20



**R.C SUMP PLAN LAYOUT**

SCALE 1 : 20



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APPROVED BY	
DATE	13/09/2022

SCALE:

1:20

TITLE:

MISCELLANEOUS DETAILS 2

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:

SHEET NO:

DRAWING NO:

SBC/Q366/AFLQ/2P/RC/MISC-101

REV:



# PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)

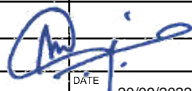
LIST OF DRAWINGS				
	DESCRIPTIONS	DRAWING NO.	REVISION NO.	REMARKS
1	LIST OF DRAWINGS	SBC/Q366/AFLQ/2P/ST/L - 100	2	
2	GENERAL NOTES	SBC/Q366/AFLQ/2P/ST/G-100		
3	150x150mm R.C PRECAST PILE FOUNDATION LAYOUT PLAN	SBC/Q366/AFLQ/2P/ST/CS-100		
4	PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 100 kN/m <sup>2</sup> ]	SBC/Q366/AFLQ/2P/ST/CS-101		
5	PAD FOOTING DETAILS [ALLOWABLE STRESS OF SOIL 100 kN/m <sup>2</sup> ]	SBC/Q366/AFLQ/2P/ST/CS-101A		
6	PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 150 kN/m <sup>2</sup> ]	SBC/Q366/AFLQ/2P/ST/CS-102		
7	PAD FOOTING DETAILS [ALLOWABLE STRESS OF SOIL 150 kN/m <sup>2</sup> ]	SBC/Q366/AFLQ/2P/ST/CS-102A		
8	PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 200 kN/m <sup>2</sup> ]	SBC/Q366/AFLQ/2P/ST/CS-103		
9	PAD FOOTING DETAILS [ALLOWABLE STRESS OF SOIL 200 kN/m <sup>2</sup> ]	SBC/Q366/AFLQ/2P/ST/CS-103A		
10	COLUMN SCHEDULE	SBC/Q366/AFLQ/2P/ST/CS-104		
11	GROUND FLOOR BEAM LAYOUT PLAN	SBC/Q366/AFLQ/2P/ST/CS-200		
12	GROUND FLOOR BEAM DETAILS	SBC/Q366/AFLQ/2P/ST/CS-201		
13	ROOF BEAM LAYOUT PLAN	SBC/Q366/AFLQ/2P/ST/CS-300		
14	ROOF TRUSSES LAYOUT PLAN	SBC/Q366/AFLQ/2P/ST/CS-400		
15	ROOF TRUSS SECTION(FOR ROOF TRUSS TO REINFORCE CONCRETE BEAM CONNECTION)	SBC/Q366/AFLQ/2P/ST/CS-401		
16	ROOF TRUSS SECTION (FOR ROOF TRUSS TO REINFORCE CONCRETE BEAM CONNECTION)	SBC/Q366/AFLQ/2P/ST/CS-402		
17	MISCELLANEOUS DETAILS - 1	SBC/Q366/AFLQ/2P/ST/MISC-100		
18	MISCELLANEOUS DETAILS - 2	SBC/Q366/AFLQ/2P/ST/MISC-101		



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APPROVED BY	
DATE	20/09/2022

SCALE:

N.T.S

TITLE:

LIST OF DRAWINGS

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:

SHEET NO:

DRAWING NO:

SBC/Q366/AFLQ/2P/ST/L - 100

REV:

2

1. GENERAL

- 1.1 SETTING OUT:  
ALL DIMENSIONS MEASURED ON SITE SHALL BE CHECKED AND CONFIRMED WITH RELEVANT ARCHITECTURAL, M&E, CIVIL AND STRUCTURAL DRAWINGS.
- 1.2 ANY DISCREPANCIES BETWEEN ARCHITECTURAL, C&S AND M&E DRAWINGS SHALL BE REFERRED TO PROJECT ARCHITECT OR STRUCTURAL ENGINEER OR M&E.
- 1.3 PLEASE NOTE THAT THE ARCHITECTURAL DRAWINGS GRID LINE AND STRUCTURAL DRAWINGS GRID LINES HAVE BEEN PURPOSELY OFF-SET TO EASE CONSTRUCTION ON STRUCTURAL MEMBERS.

2. STANDARDS & CODE OF PRACTICE

- 2.1 BS 8110 : 1985 STRUCTURAL USE OF CONCRETE
- 2.2 PBD 12 : 2008 BUILDING GUIDELINES AND REQUIREMENTS
- 2.3 BS 4449 : 1978 HOT ROLLED STEEL BARS FOR THE REINFORCEMENT OF CONCRETE

3. CONCRETE

- 3.1 CONCRETE STRENGTH :- 25 N/mm<sup>2</sup> (GRADE 25) UNLESS OTHERWISE STATED
- |               |                        |
|---------------|------------------------|
| LEAN CONCRETE | - 15 N/mm <sup>2</sup> |
| PILE CAP      | - 25 N/mm <sup>2</sup> |
| COLUMN        | - 25 N/mm <sup>2</sup> |
| SLAB          | - 25 N/mm <sup>2</sup> |
| BEAM          | - 25 N/mm <sup>2</sup> |

- 3.2 CONCRETE COVER TO ALL REINFORCEMENT INCLUDING LINKS SHALL MEET THE 2-HOUR FIRE RATING & AS STATED BELOW (UNLESS OTHERWISE STATED)
- |           |        |
|-----------|--------|
| COLUMNS   | : 30mm |
| BEAMS     | : 30mm |
| PILE CAPS | : 75mm |
| SLABS     | : 20mm |

- 3.3 CONCRETE CURING : TO BE CARRIED OUT BY SPRAYING WITH WATER AND COVERING WITH EITHER GUNI SACKS OR PLASTIC SHEETS.

- 3.4 ANY COLD JOINTS AND HACKED CONCRETE SURFACE SHALL BE APPLIED WITH APPROVED BONDING AGENT BEFORE POURING NEW CONCRETE.

- 3.5 50mm (MINIMUM) THICK BLINDING LEAN CONCRETE SHALL BE PROVIDED BENEATH FOOTINGS, GROUND BEAMS AND ALL GROUND FLOOR SLABS SOFFIT.

4. STEEL REINFORCEMENT

- 4.1 THE MINIMUM YIELD STRENGTH OF STEEL REINFORCEMENT (WITH DENOTATION "T") FOR HIGH TENSILE DEFORMED BAR (TYPE 2 - 460 N/mm<sup>2</sup>, STEEL FABRIC - 485 N/mm<sup>2</sup> (UNLESS OTHERWISE STATED).
- 4.2 THE MINIMUM YIELD STRENGTH OF STEEL REINFORCEMENT (WITH DENOTATION "R") SHALL BE 250N/mm<sup>2</sup>.

5. ALL WATER RETAINING STRUCTURE OR WET AREAS SHALL BE APPLIED WITH APPROVED WATER PROOFING SYSTEM.

6. IF REQUIRED R.C LINTEL BEAM OF SIZES 150 X 200 REINFORCED WITH 2T12 (T&B) & R6 -150 LINKS SHALL BE PROVIDED TO ALL DOORS AND WINDOWS. STIFFENER, COLUMN SIZES 150X150 TO 200X200 REINFORCED WITH 4T12 & T10-150 LINKS SHALL BE PROVIDED IF REQUIRED. (FOR EG. ON WALL OF MORE THAN 3.5m IN HORIZONTAL LENGTH OR VERTICAL HEIGHT)

7. INCORPORATING OF M & E REQUIREMENTS IN STRUCTURAL DRAWINGS:  
THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS INCORPORATING ALL M & E REQUIREMENTS, OPENINGS ETC INTO THE STRUCTURAL DRAWINGS AND OBTAIN THE PROJECT STRUCTURAL ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY FORM OF PERMANENT CONSTRUCTION WORKS. THE CONTRACTOR SHALL RESOLVE ALL DISCREPANCIES WITH ENGINEERS REGARDING M & E WORKS PRIOR TO CONCRETING.

8. NOTES FOR COMPACTION WORKS OF SUB-BASE AND SUB-GRADE.

1. ALL SUB-GRADE AND SUB-BASE LAYING WORKS SHALL BE WELL COMPACTED TO OVER 95% CBR.
2. MINIMUM OF FOUR NUMBER OF DRY FIELD DENSITY TESTS AND CBR TESTS SHALL BE CONDUCTED ON COMPACTED SUBGRADES AND SUB-BASE BEFORE CARRYING OUT ANY PERMANENT WORKS SUCH AS CONCRETING OF ACCESS ROAD, GARAGE NON-SUSPENDED FLOOR SLABS & HARD STANDINGS, ETC. THE TESTS RESULTS SHALL BE SUBMITTED TO CIVIL AND STRUCTURAL CONSULTANT ENGINEER FOR REVIEW AND APPROVAL TO PROCEED WITH PERMANENT WORKS (IF APPLICABLE BASIS ONLY).

9. REMOVAL OF FORMWORK

- A) THE TIME FOR THE REMOVAL OF FORMWORKS IS TO BE SUBJECTED TO ENGINEER'S APPROVAL, BUT THE FOLLOWING MAY BE TAKEN AS A GUIDE TO MINIMUM TIMES APPLICABLE UNDER NORMAL CIRCUMSTANCES:

SIDE OF COLUMNS/PIERS,WALLS AND BEAMS	3 DAYS
SOFFIT OF SLABS (PROPS LEFT UNDER)	14 DAYS
PROPS OF SLABS	28 DAYS
SOFFIT OF BEAMS ( PROPS LEFT UNDER)	14 DAYS
PROPS TO SOFFIT OF BEAMS	28 DAYS

- B) SHUTTERING AND CENTERING SHALL BE REMOVED BY GRADUAL EASING WITHOUT JARRING, AND ONLY IN THE PRESENCE OF A COMPETENT SUPERVISER. BEFORE REMOVAL OF THE SHUTTERING, THE CONCRETE SHALL BE EXAMINED, AND REMOVAL SHALL PROCEED ONLY IF THE CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO SUPPORT ITS OWN WEIGHT AND ANYCONSTRUCTIONAL OR OTHER LOADS LIKELY TO COME UPON IT. IF ANY LOADING IN EXCESS OF THE DESIGN LOAD IS ANTICIPATED, APPROVED PROPS SHALL BE PROVIDED AFTER REMOVAL OF SHUTTERING.
- C) TO ENSURE THAT THE CONSTRUCTIONAL LOADS OF A FLOOR ARE SHARED BY AT LEAST TWO FLOORS BELOW IT, THE PROPS TO THE BEAMS AND SLABS OF A FLOOR SHALL NOT BE REMOVED UNTIL THE FLOOR ABOVE THE FLOOR IN QUESTION, IS STRONG ENOUGH TO SUPPORT ITSELF.

10. GENERAL NOTES FOR PILING WORKS

1. ALL PILES TO BE USED FOR THIS PROJECT SHALL BE OF BRUNEI DARUSSALAM MINISTRY OF DEVELOPMENT'S APPROVED TYPES AND BRAND NAMES OR AS PER S.O.'S APPROVAL.
2. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, BEFORE ANY PILING WORK IS STARTED, DETAILS OF :-  
- PILE DRIVER INCLUDING SIZE OF HAMMER AND DROP.  
- CONTRACTOR'S CALCULATIONS OF SETS, CALCULATED USING THE HILEY FORMULA.  
- PROPOSED PROGRAM AND SEQUENCE OF PILE DRIVING INCLUDING TEST PILES.
3. NO PILING SHALL COMMENCE UNTIL THE SET VALUES SUBMITTED BY THE CONTRACTOR ARE APPROVED IN WRITING BY THE ENGINEER.
4. THE CALCULATED SETS SHALL ONLY BE USED AS A GUIDE FOR DRIVING AND THE SET SHALL BE CONFIRMED BY THE IN-SITU PILE TEST.
5. HOWEVER, PILE HYDRAULIC JACKING TO TWICE THE SAFE WORKING LOAD (MINIMUM) SHALL BE USED IF PILE HAMMERING ACTIVITIES CAUSES DISTURBANCES AND DISTRESS (EXCESSIVE VIBRATIONS) TO SURROUNDING BUILDINGS

11. GENERAL NOTES FOR R.C PILES

R.C PILES

1. ALL REINFORCED CONCRETE (R.C.) PRECAST PILES SHALL BE 150MM X 150MM REINFORCED CONCRETE PRECAST PILES OR AS PER SPECIFIED IN THE DRAWINGS.
2. CONCRETE GRADE SHALL BE GRADE 45 MINIMUM FOR NORMAL R.C. PRECAST PILES.
3. THE ALLOWABLE SAFE BEARING CAPACITY OF EACH R.C. PRECAST PILES POINT SHALL BE 25 TONNES.
4. THE EXPECTED PENETRATION DEPTH OF EACH PILE POINT IS 6 TO 15 METRES. THIS IS TO BE CONFIRMED DURING PILE DRIVING WORKS. (UNTIL PILE SET IS ACHIEVED UNLESS OTHERWISE STATED)
5. THE PILE SET SHOULD BE ACHIEVED WITH THE LAST 10 BLOWS FOR LESS THAN 20mm PENETRATION (PILE HAMMER OF ABOUT ONE TONNE WITH HAMMER DROP OF ABOUT 600mm TO ONE METRE)
6. ALL WELDING WORKS FOR JOINING OF PILES SHALL BE CARRIED OUT BY QUALIFIED LICENSED WELDERS.
7. IF ANY OF THE PILE POINTS DOES NOT PENETRATE 6 METRES DEEP INTO THE GROUND (IF PILE SET IS ACHIEVED AT LESS THAN 6 METRES PENETRATION LENGTH), THE CLIENT OR CONTRACTOR SHALL REPORT TO THE C&S CONSULTANT FOR REDESIGN REQUIREMENT OF THE PILE FOUNDATION.

11a. MILD STEEL TUBULAR PILING

- 11a.1 ALL PILES SHALL BE GRADE 43 SEAMLESS MS TUBES 114.3mm  $\varnothing$  x 6.3mm THICK TO B.S. 4848 PART II WITH AN ULTIMATE LOAD CAPACITY OF NOT LESS THAN 240kN.
- 11a.2 ALL PILING WORK SHALL BE CARRIED OUT IN ACCORDANCE TO THE GENERAL SPECIFICATION AS SHOWN IN SPECIFICATION OF MATERIALS AND WORKMANSHIP.

12. NOTES FOR PAD FOOTING

1. ALL PAD FOOTING CONSTRUCTION SHALL BE REFERRED TO THE PAD FOOTING LAYOUT PLAN N AND DETAILS
2. THE DESIGN IS BASED UPON THE GROUND BEARING CAPACITY AT ABOUT 2.0 METRES BELOW EXISTING GROUND LEVEL TO BE 150kN/m<sup>2</sup>
3. CONCRETE GRADE 30 SHALL BE USED FOR ALL PAD FOOTING WORKS

13. NOTES FOR BAKAU PILING

1. WITH A 1/2 TONNE HAMMER AND DROP OF 900mm, THE FINAL SET SHOULD NOT BE MORE THAN 75/10 BLOWS OR THE SET TO BE FINALISED BY THE ENGINEER DURING THE TEST PILING.
2. ALL BAKAU PILES SHOULD BE NOT LESS THAN 75mm  $\varnothing$  (ON AVERAGE), ALL PILES CUT-OFF SHALL BE AT THE LOWEST WATER LEVEL. EXACT LEVEL TO BE DETERMINED ON SITE BY THE ENGINEER.
3. IF PILE REQUIRED TO BE SPliced TOGETHER, A TUBULAR SPlice WITH A HEAVY PIPE 90mm  $\varnothing$  x 600mm LONG x 6mm THICK SHOULD BE USED AT LEAST 4 HOLES SHALL BE PROVIDED IN THE PIPE FOR DRIVING 65mm LONG NAILS SPIKE INTO THE PILE.
4. ACTUAL SPACING OF BAKAU PILES TO BE DECIDED ON SITE.

14. NOTES FOR SAFETY OF EXISTING UNDER GROUND SERVICES

1. MAIN CONTRACTOR TO CARRY OUT PILOT TRENCHING (ADEQUATE GROUND INVESTIGATION) BEFORE CARRYING OUT ANY EXCAVATION WORKS FOR DRAINAGE WORKS, PILING WOKS AND OTHER WORKS THAT MAY AFFECT THE BURIED (UNDER GROUND) EXISTING SERVICES/UTILITIES SUCH AS ELECTRICAL CABLES, FIBRE OPTIC CABLES, TELECOM CABLES, WATER PIPES. .THIS IS IMPORTANT TO PREVENT ANY DAMAGE TO SUCH SERVICES /UTILITIES SAFETY THREAT TO ALL STATEHOLDERS.

15. NOTES FOR WATERPROOFING WORKS :

1. ALL INTERNAL OR EXTERNAL SURFACES OF WATER RETAINING STRUCTURE OR WET AREAS SUCH AS TOILETS, RC ROOF SLABS, RC GUTTERS, M&E ROOMS AND KITCHENS SHALL BE WATERPROOFED WITH APPROVED WATERPROOFING SYSTEM.
2. ALL WATERPROOFING WORKS SHALL BE CARRIED OUT BY MANUFACTURER'S APPROVED INSTALLER/APPLICATOR AND SHALL BE APPLIED IN STRICT ACCORDANCE TO THE MANUFACTURER'S APPROVED PROCEDURES OR AS PER ENGINEER'S APPROVAL.
3. SUFFICIENT CURING TIME SHALL BE ALLOWED BEFORE INSTALLATION OF ANY PROTECTIVE SCREED OR ARCHITECTURAL FINISHES.
4. WATERPROOFING SYSTEMS THAT HAS BEEN APPROVED FOR INSTALLATION SHALL CARRY A 10 YEAR WARRANTY PERIOD BY THE MANUFACTURER OR BY THE MANUFACTURER'S REPRESENTATIVES OR BY THE APPROVED LOCAL DISTRIBUTOR/APPLICATOR.

16. GENERAL NOTES FOR ANY STRUCTURAL STEEL WORKS

1. MAIN CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STEEL WORKS FOR STRUCTURAL ENGINEER'S APPROVAL BEFORE ORDERING, PURCHASING, FABRICATING AND ERECTING ANY STEEL STRUCTURAL WORKS.
2. PROPOSED CONNECTION DETAILS TO BE PROVIDED IN THE STRUCTURAL SHOP DRAWINGS FOR STRUCTURAL ENGINEER'S APPROVAL.
3. ALL STEEL SECTION MEMBERS SHALL BE SAND BLASTED BEFORE APPLYING ANY APPROVED ANTI-CORROSION COATING SYSTEM.
4. ALL WELDING WORKS SHALL BE CARRIED OUT BY QUALIFIED LICENSED WELDERS.

17. NOTES FOR TURFING :

1. ALL TURFS SHALL BE 225MM SQUARE FROM AN APPROVED SOURCE FREE FROM LALLANG AND OTHER WEEDS.
2. BLACK EARTH OF 50MM THICKNESS SHALL BE SPREAD ON TO THE GROUND WHERE TURFING IS TO BE DONE.
3. SPOT TURFING SHALL BE LAID AT 300MM CENTRES.
4. CLOSED TURFING TO BANKS SHALL BE PEGGED IN PLACE WITH 25MM DIAMETER PEGS 225MM LONG.
5. ALL TURFING SHALL BE WATERED UNTIL SATISFACTORILY ESTABLISHED AND ALL TURFING THAT HAS BECOME DEFECTIVE WITHIN SIX MONTHS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. DURING THE PERIOD OF THE WORKS AND MAINTENANCE, THE CONTRACTOR SHALL KEEP ALL TURFED AREAS WATERED, MOWN OR CUT AND CLEARED OF GRASS CUTTING TO THE SATISFACTION OF THE ENGINEER. THE FIRST CUT SHALL BE MADE WHEN THE GRASS IS 100MM HIGH, FOLLOWED BY REGULAR CUTTING SO THAT THE VEGETATION AT NO TIME EXCEEDS 150MM IN HEIGHT.

18. DRAWING NOTE:

1. ALL STRUCTURAL DRAWING ARE DRAWN TO APPROXIMATE SCALE. ANY DISCREPANCY IN STRUCTURAL DRAWING DIMENSIONS, EXACT DIMENSION SHALL BE REFERRED TO STRUCTURAL ENGINEER.

19. GENERAL NOTES FOR FLOOR HARDENER REQUIREMENTS:

1. ALL CONCRETE SLAB SURFACES WHICH ARE NOT COVERED WITH HEAVY DUTY DECORATIVE TILES AND TO BE USED AS CAR PARKS OR ACCESS ROADS (FOR SELECTED AREAS) SHALL BE APPLIED WITH SUITABLE FLOOR HARDENERS SYSTEM (TO INCLUDE POWER FLOAT TROWELLING IF APPLICABLE)

20. GENERAL NOTES FOR BRICKWALL WORKS:

1. ALL BRICKS TO BE USED SHALL BE REGULAR IN SIZE AND APPROVED BY ABCI
2. REINFORCED CONCRETE STIFFENERS (100x100 WITH APPROPRIATE REINFORCEMENTS)SHALL BE PROVIDED AT EVERY INTERVAL OF 3.5m OF BRICK WORK LENGTH

21. NOTES FOR WORKPLACE SAFETY, HEALTH AND ENVIRONMENT COMPLIANCE & INSURANCES & TEMPORARY WORKS:

1. MAIN CONTRACTOR SHALL ENSURE TO COMPLY FULLY WITH ALL PREVAILING RULES, REGULATIONS AND LAWS OF NEGARA BRUNEI DARUSSALAM ON WORKPLACE SAFETY, HEALTH AND ENVIRONMENTAL ASPECTS THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD AND DEFECTS LIABILITY PERIOD
2. MAIN CONTRACTOR SHALL ENSURE THAT ALL APPLICABLE INSURANCES ARE VALID THROUGHOUT THE CONSTRUCTION PERIOD AND DEFECTS LIABILITY PERIOD SUCH AS CONTRACTOR'S ALL RISK INSURANCE OR OTHERS SUCH AS WORKMEN COMPENSATION INSURANCE POLICY, PUBLIC LIABILITY INSURANCE POLICY AND FIRE INSURANCE POLICY(WHICHEVER IS APPLICABLE AS PER SUPERINTENDING OFFICERS INSTRUCTIONS)
3. MAIN CONTRACTOR SHALL EMPLOY INDEPENDENT CONSULTANT TO CARRYOUT DESIGN WORKS FOR ALL TEMPORARY WORKS AND THAT SUCH TEMPORARY WORKS DESIGN REQUIREMENT ARE FULLY COMPLIED DURING ITS EXECUTION

22. NOTES FOR ROOF TRUSSES:

1. ROOF TRUSSES SHALL BE LIGHTWEIGHT PROPRIETARY SYSTEM SUCH AS LYSAGTH SMART TRUSS SYSTEM OR APPROVED TECHNICAL EQUIVALENT SHALL BE DESIGNED BY MANUFACTURER COMPANY.
2. THE INSTALLATION WORKS SHALL BE CARRIED OUT BY MANUFACTURER'S APPROVED INSTALLER.



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CLIENT:

DESIGNED BY

THAN ZAW TUN

SCALE:

N.T.S

TITLE:

GENERAL NOTES

JOB NO:

SHEET NO:

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

DRAWING NO:

SBC/Q366/AFLQ/2P/ST/G - 100

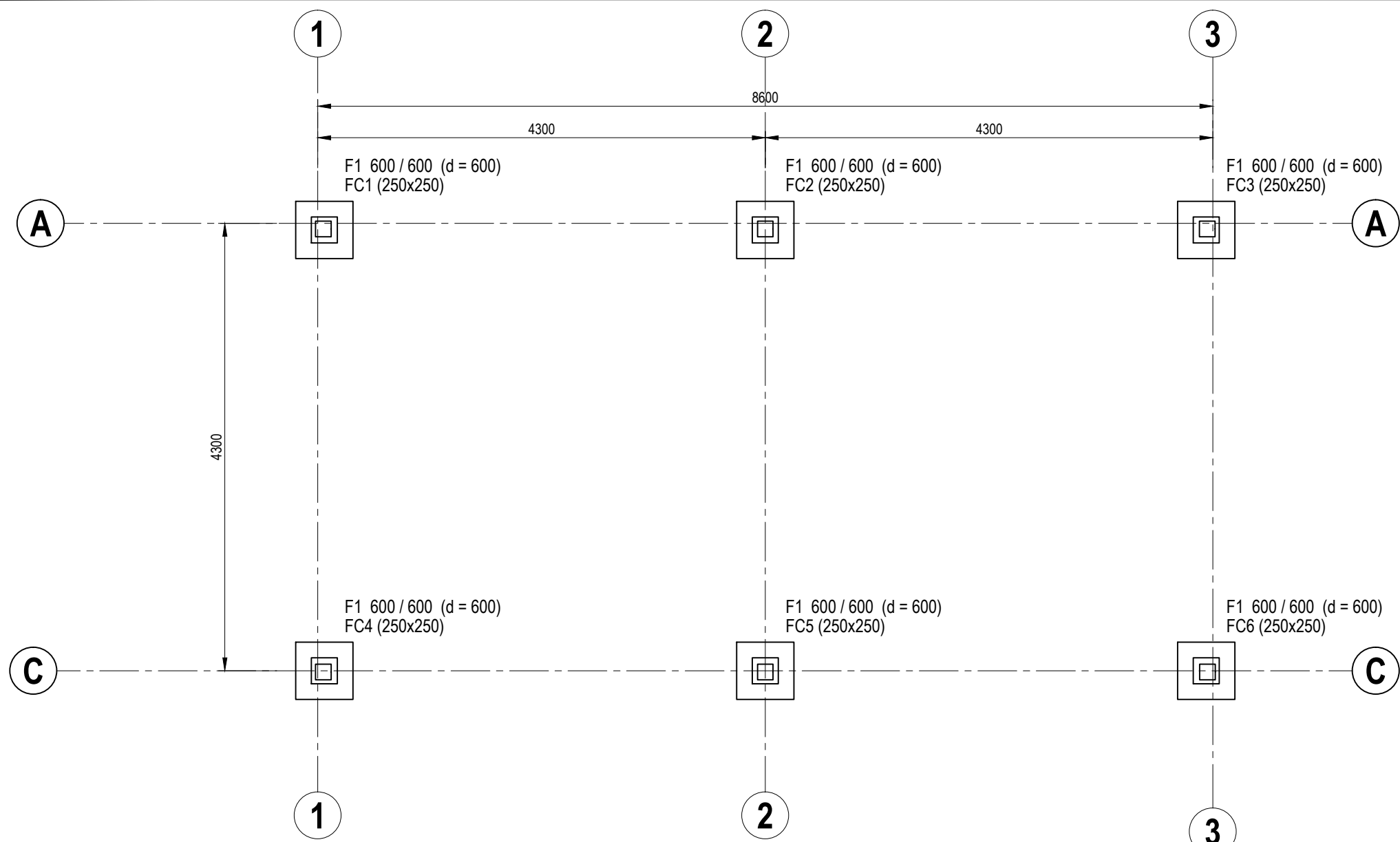
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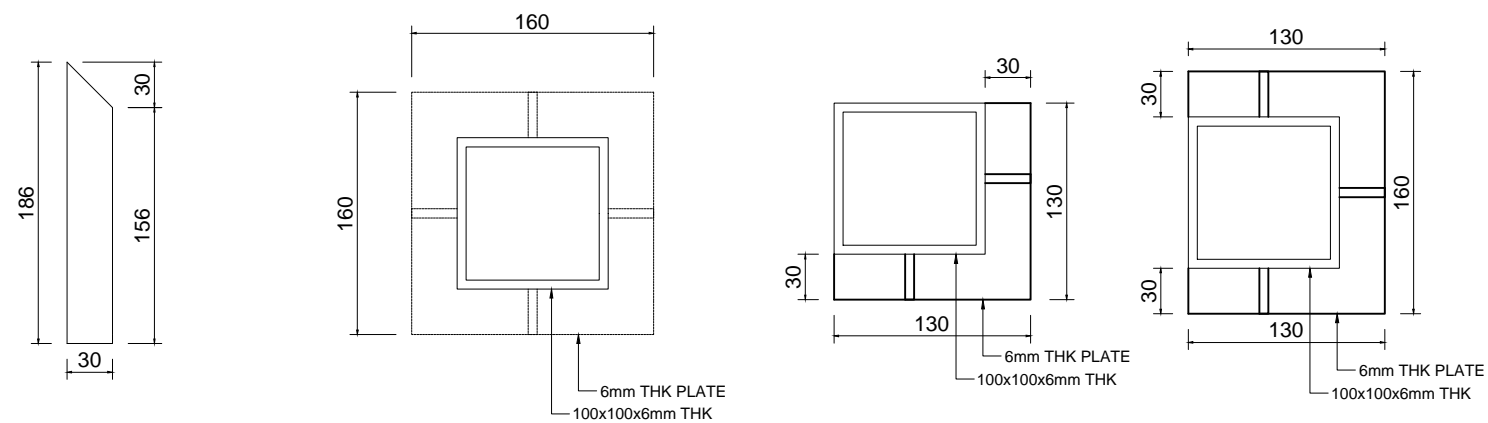
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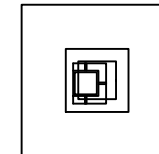


**150x150mm R.C PRECAST PILE FOUNDATION LAYOUT PLAN**  
SCALE 1 : 50

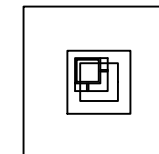


**STEEL PLATE DETAILS**  
SCALE 1:5

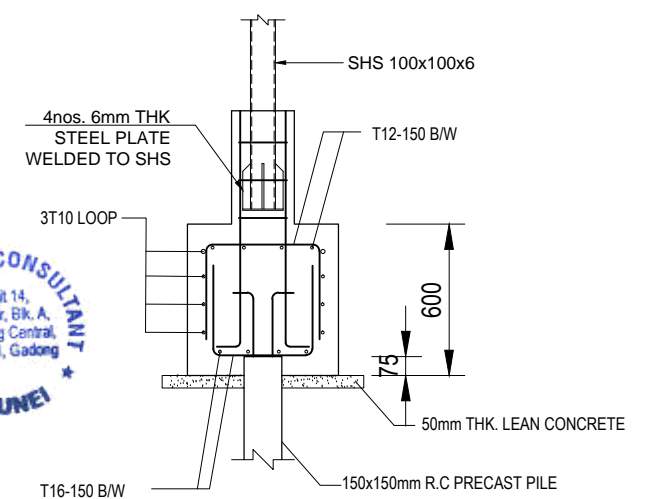
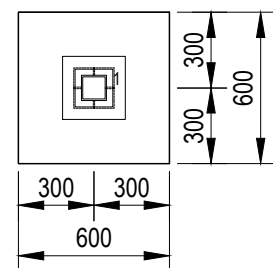
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F1(TYPE C) 600 / 600 (d = 600)



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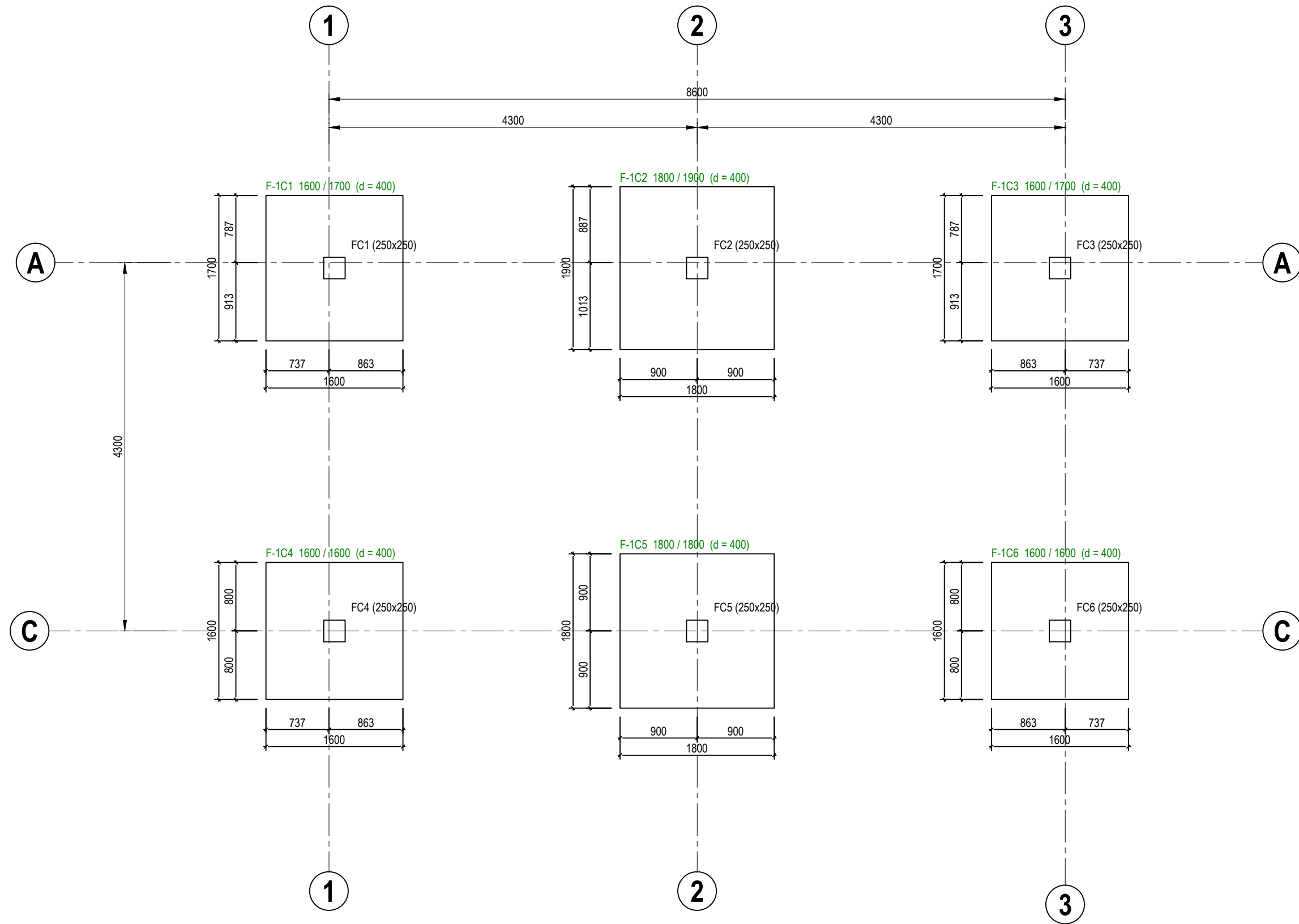
NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	14/09/2022

SCALE:  
1:50

TITLE:  
125x125mm R.C PRECAST PILE FOUNDATION LAYOUT PLAN  
PROJECT:  
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLO/2P/ST/CS - 100
REV:	



# PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 100 kN/m<sup>2</sup>]

SCALE 1 : 50



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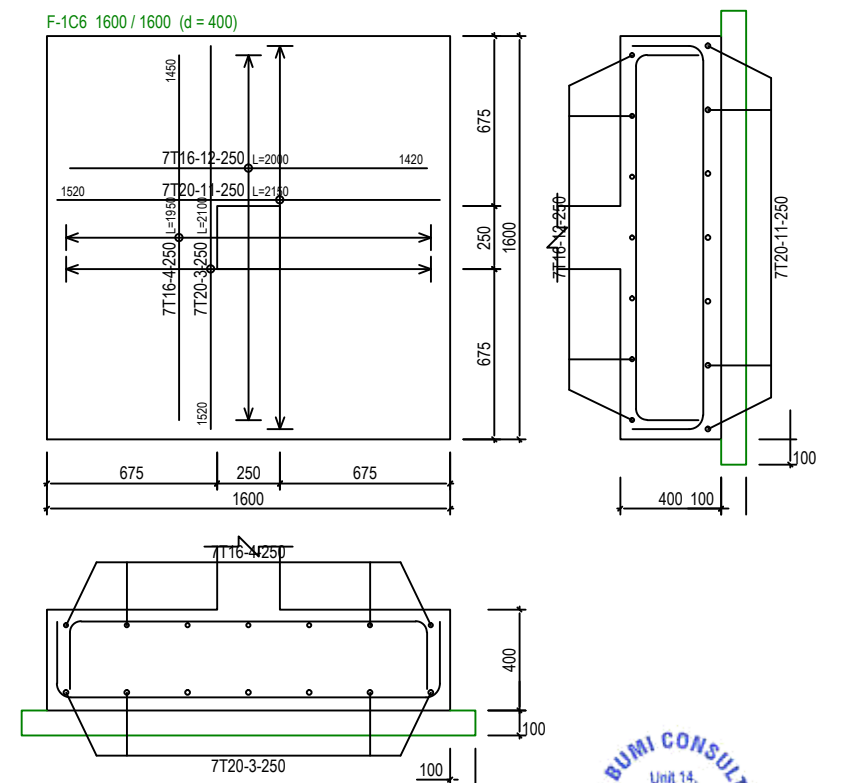
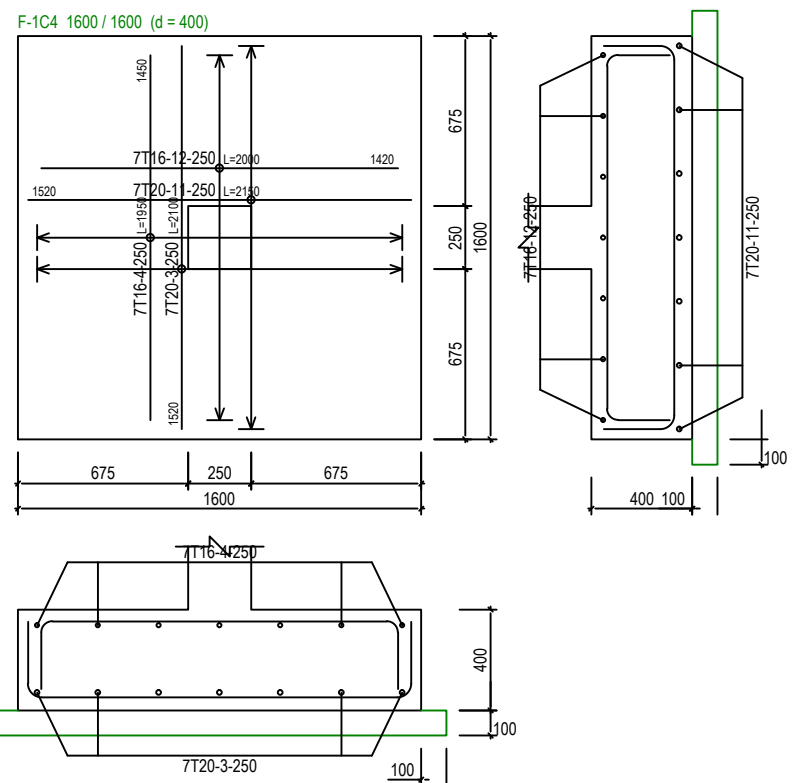
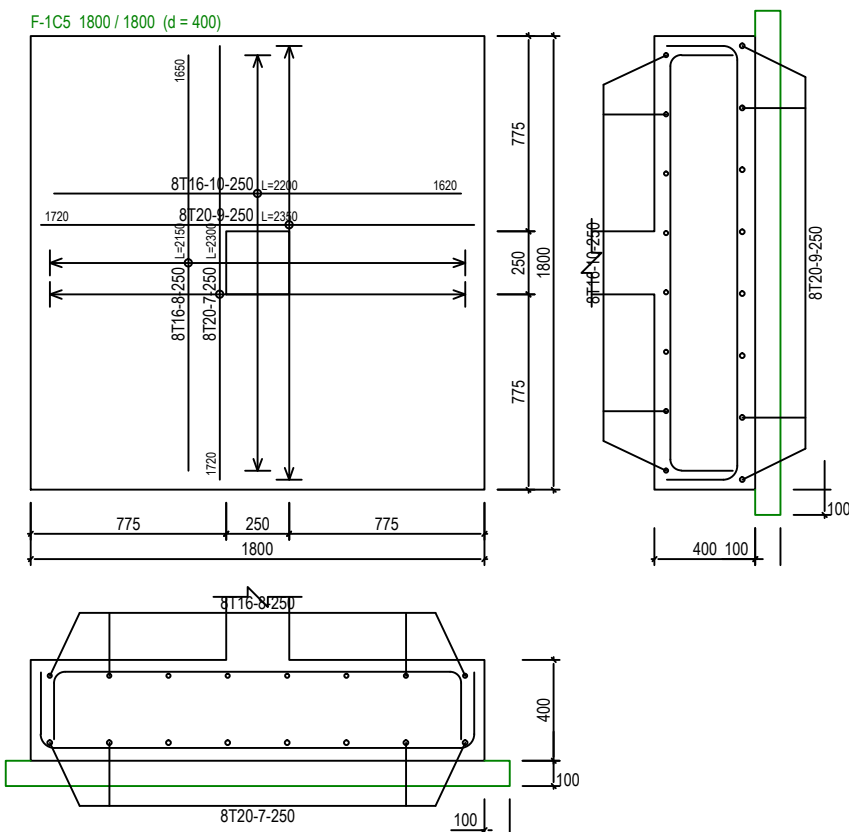
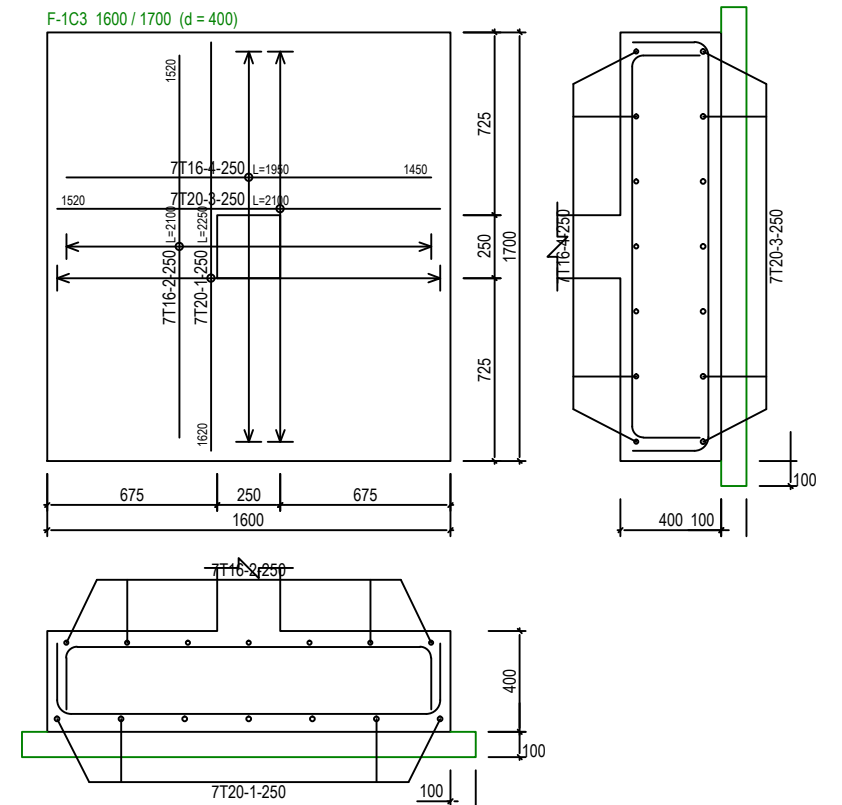
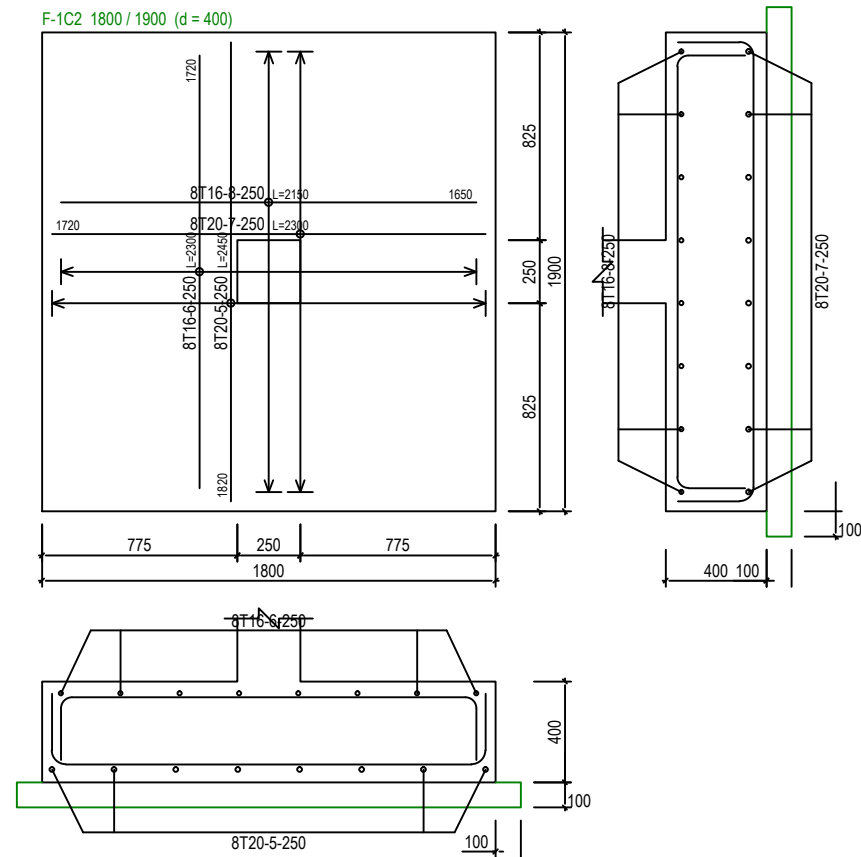
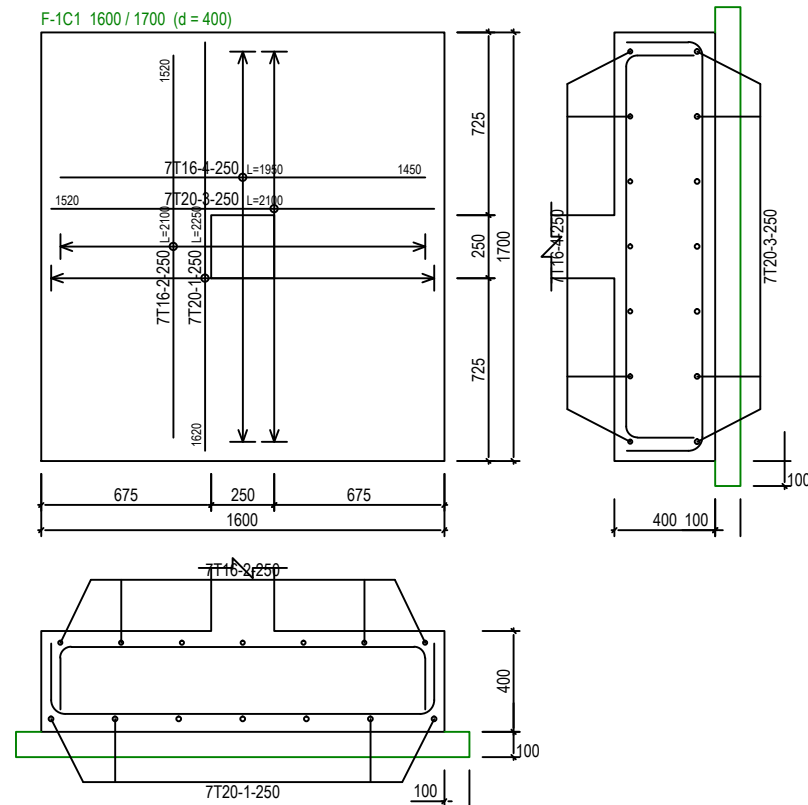

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DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	14/09/2022

SCALE:  
1:50

TITLE:	PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 100 kN/m <sup>2</sup> ]
PROJECT:	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLO/2P/ST/CS-101
REV:	



# PAD FOOTING DETAILS [ALLOWABLE STRESS OF SOIL 100 kN/m<sup>2</sup>] SCALE 1:30



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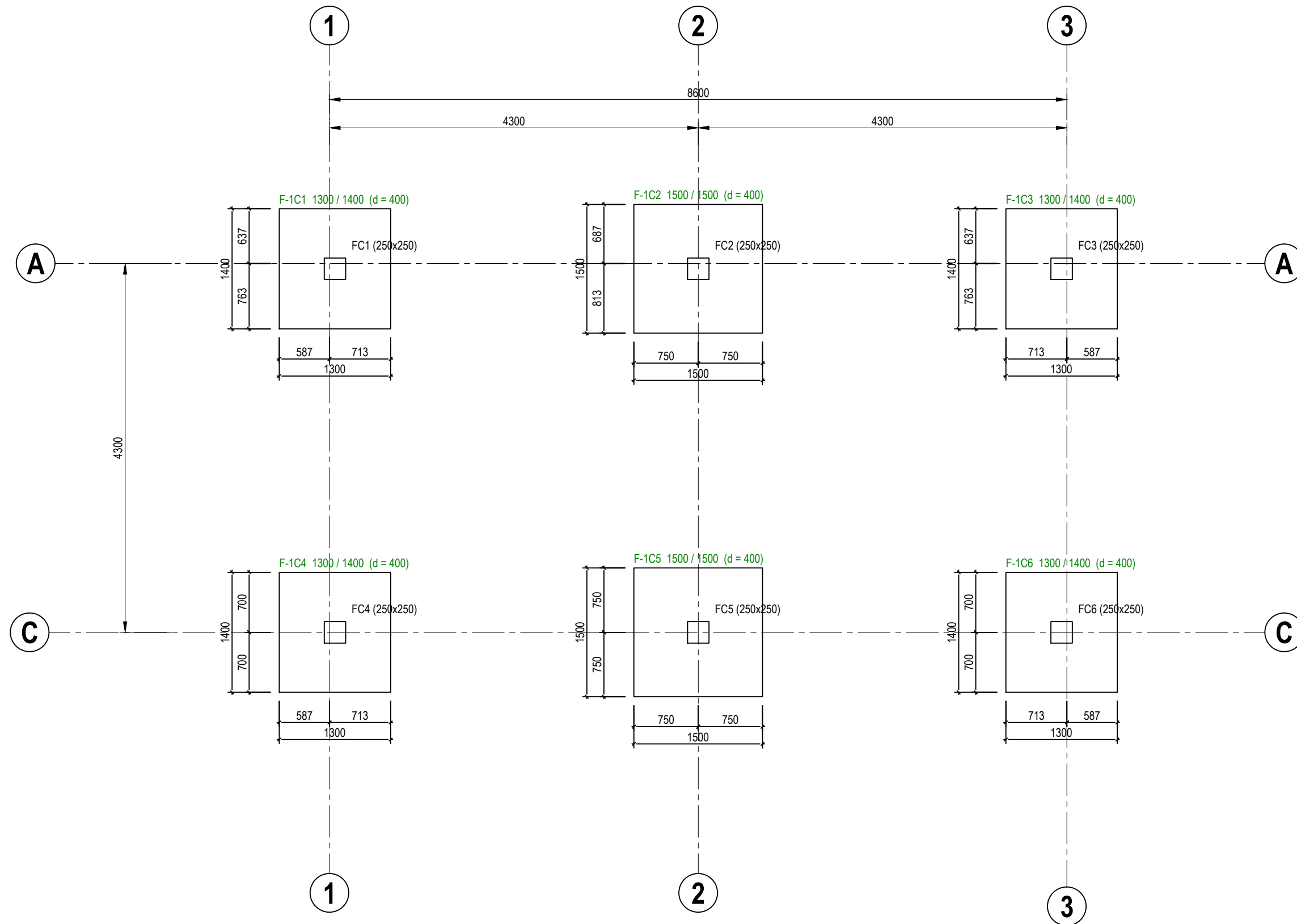
NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	DATE 14/09/2022

SCALE:  
1:30

TITLE:  
PAD FOOTING DETAILS [ALLOWABLE STRESS OF SOIL 100 kN/m<sup>2</sup>]  
 PROJECT:  
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AF/Q/2P/ST/CS-101A
REV:	



# PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 150 kN/m<sup>2</sup>]

SCALE 1 : 50



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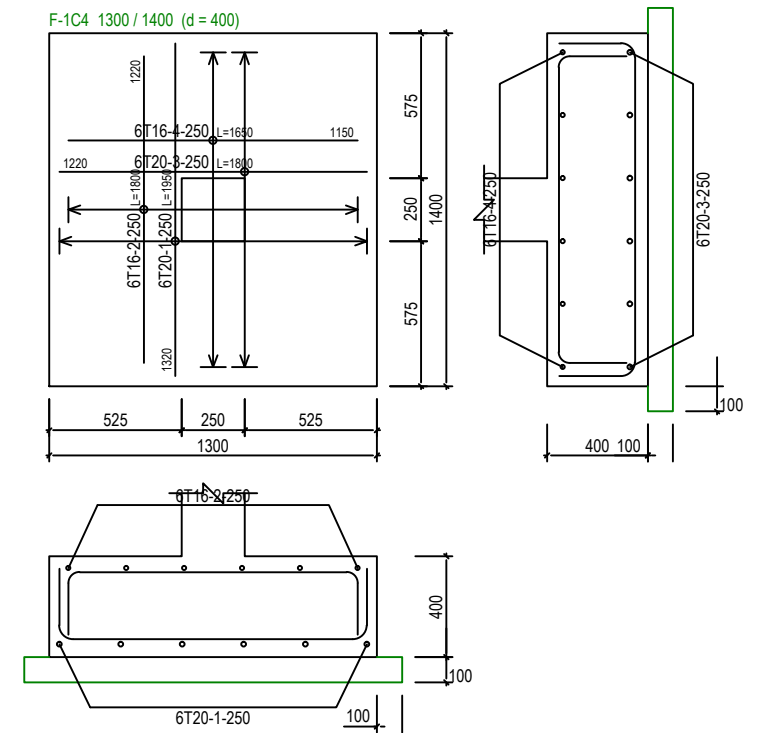
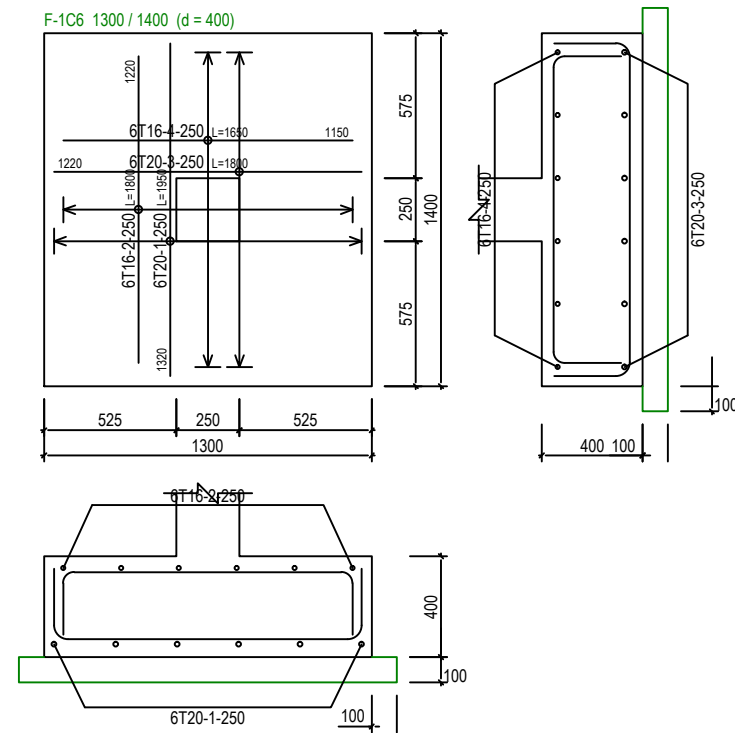
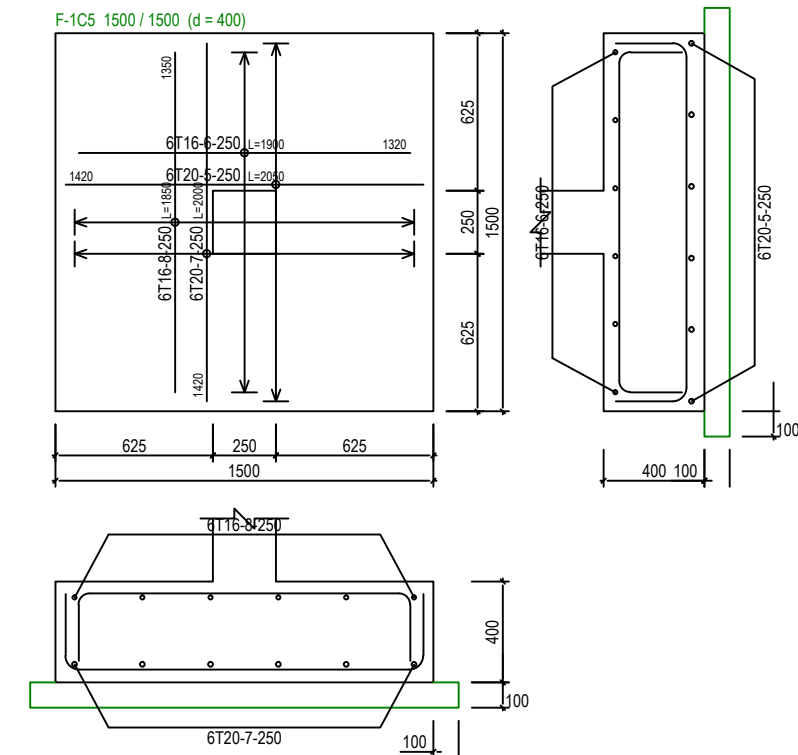
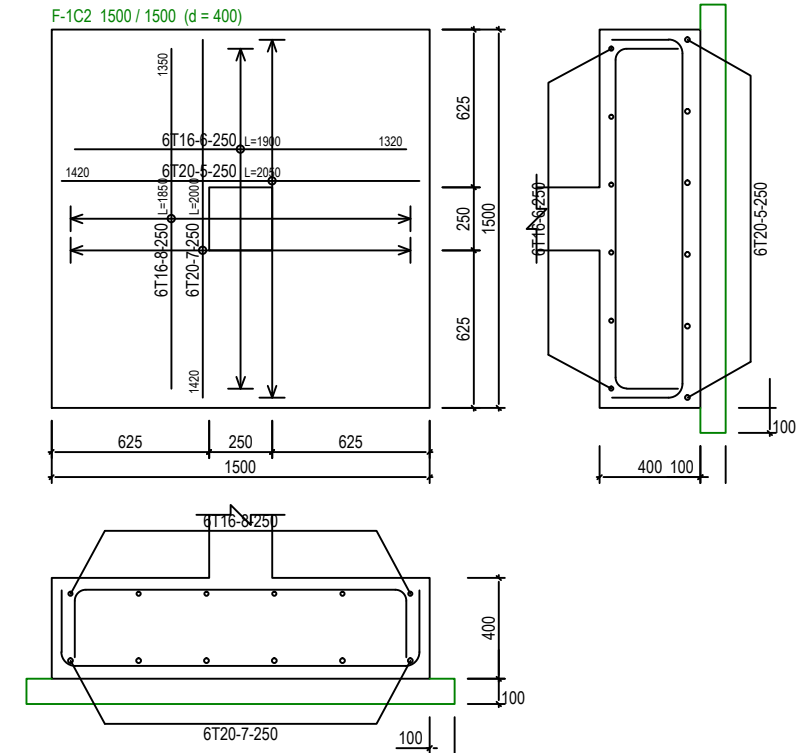
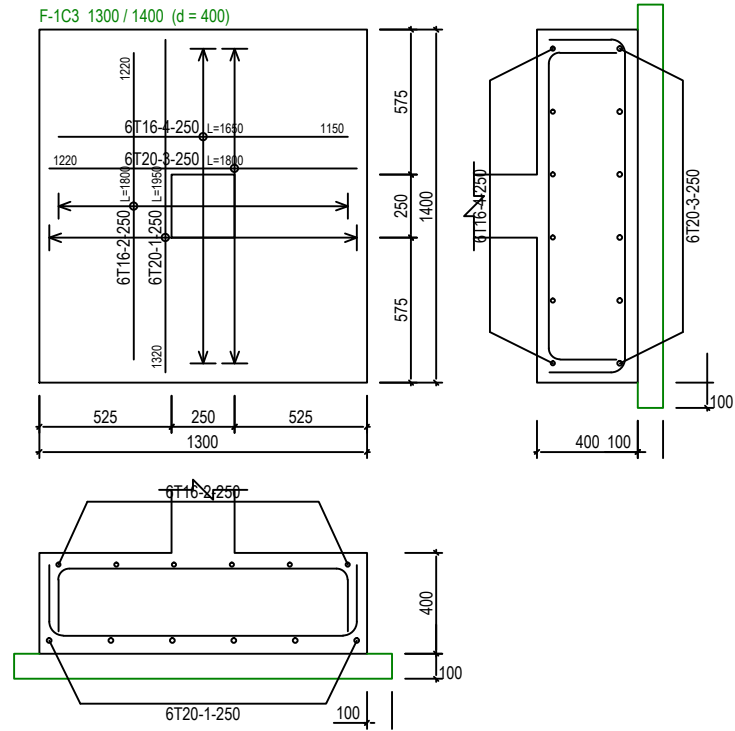
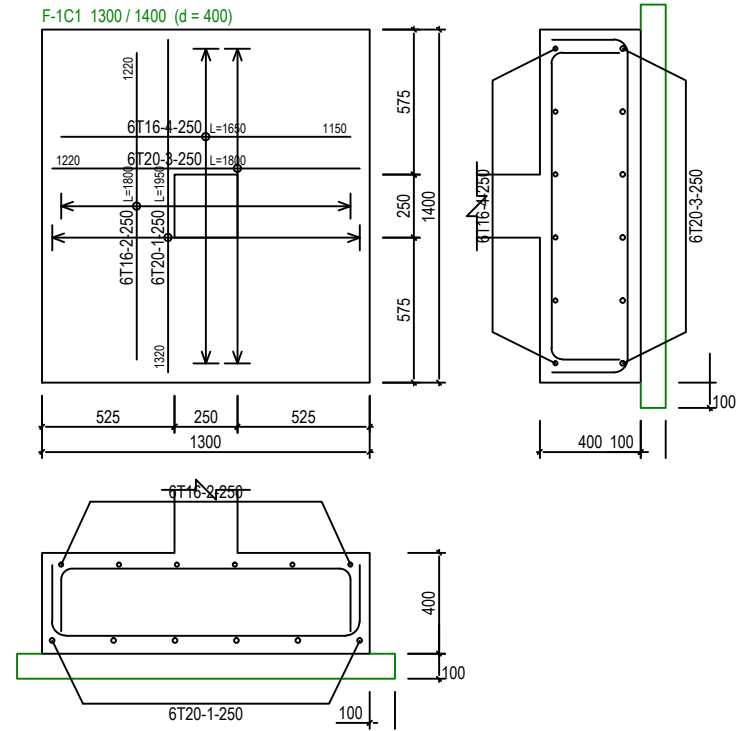

NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	14/09/2022

SCALE:
1:50

TITLE:
PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 150 kN/m <sup>2</sup> ]
PROJECT:
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:
SHEET NO:
DRAWING NO:
SBC/Q366/AFLO/2P/ST/CS-102
REV:



# PAD FOOTING DETAILS [ALLOWABLE STRESS OF SOIL 150 kN/m<sup>2</sup>] SCALE 1:30



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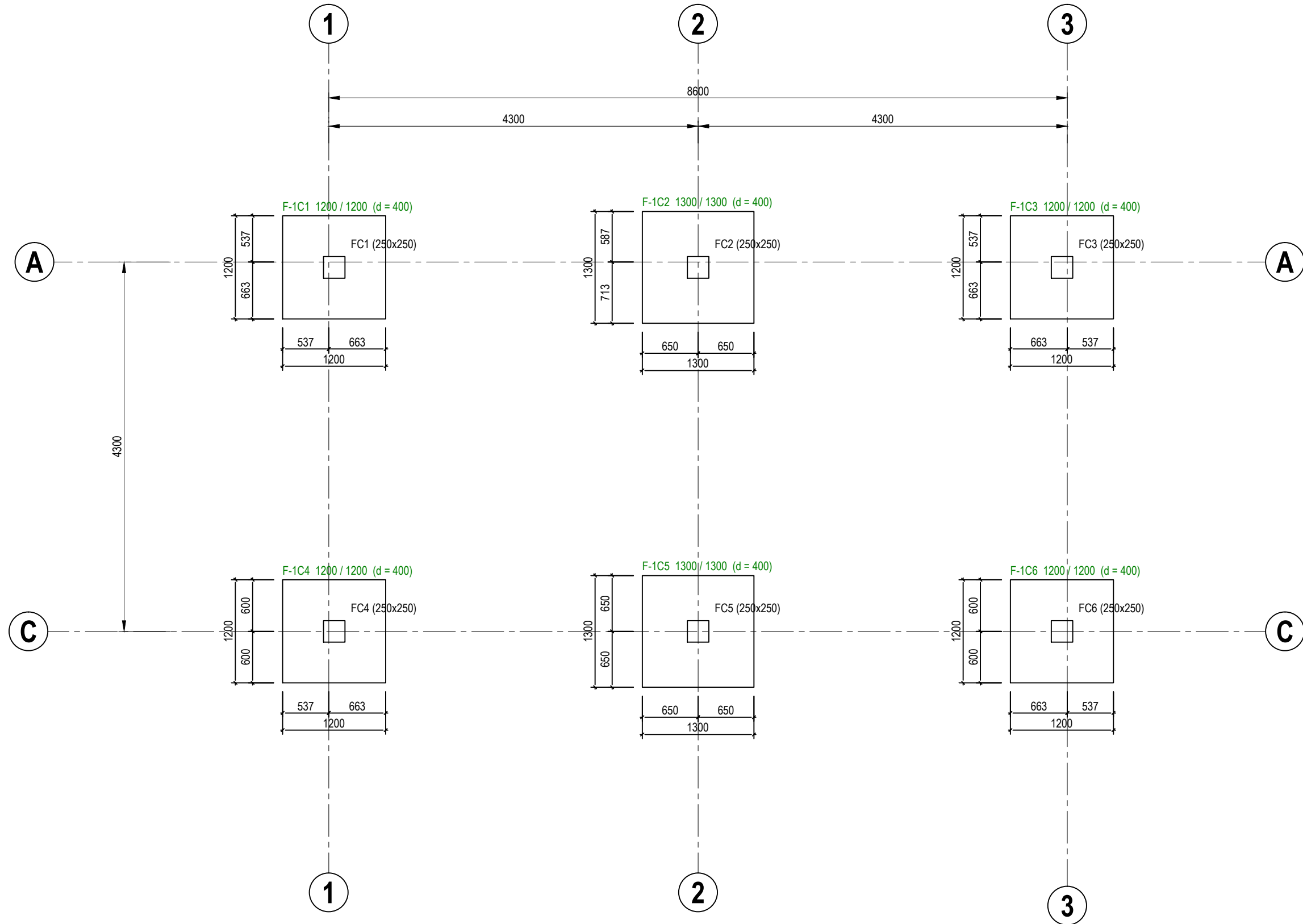
DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	14/09/2022

SCALE:

1:30


TITLE:	PAD FOOTING DETAILS [ALLOWABLE STRESS OF SOIL 150 kN/m <sup>2</sup> ]
PROJECT:	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AF/LQ/2P/ST/CS-102A
REV:	



# PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 200 kN/m<sup>2</sup>]

SCALE 1 : 50



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CLIENT:

NO.

AMENDMENTS

BY

DATE

DESIGNED BY

THAN ZAW TUN

DRAWN BY

SAI

CHECKED BY

MD. YUNUS

APPROVED BY

DATE

14/09/2022

SCALE:

1:50

TITLE:

PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 200 kN/m<sup>2</sup>]

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)

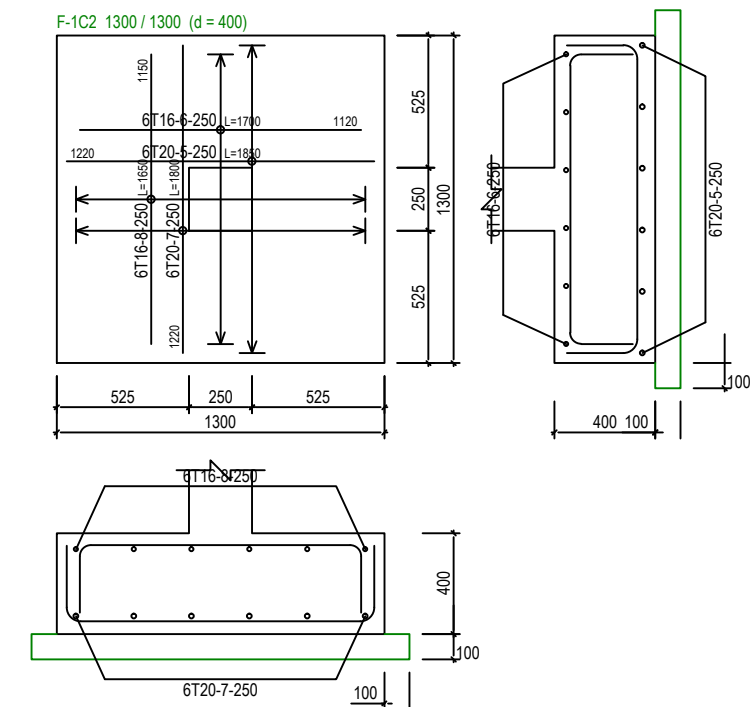
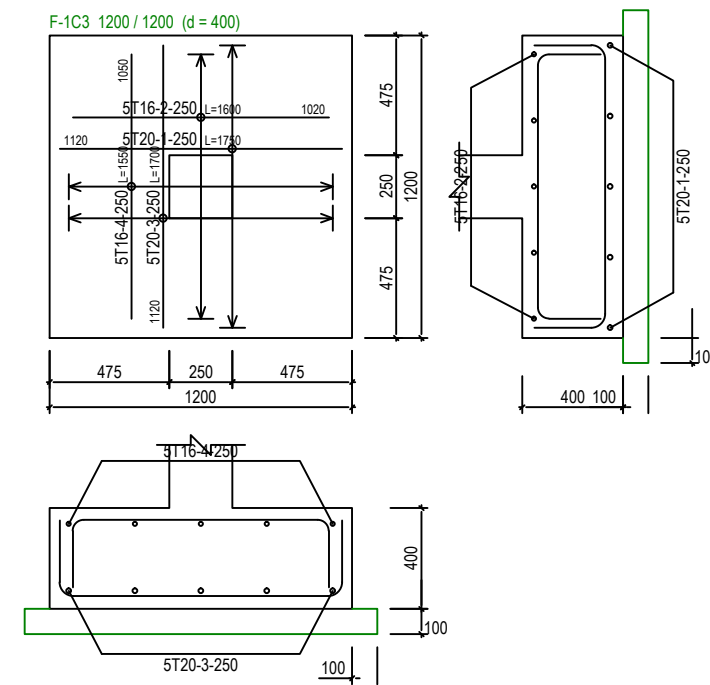
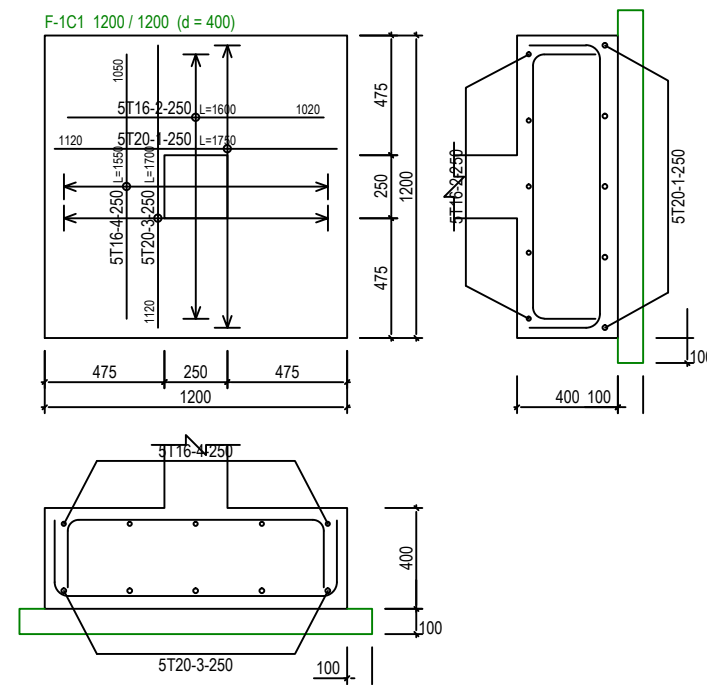
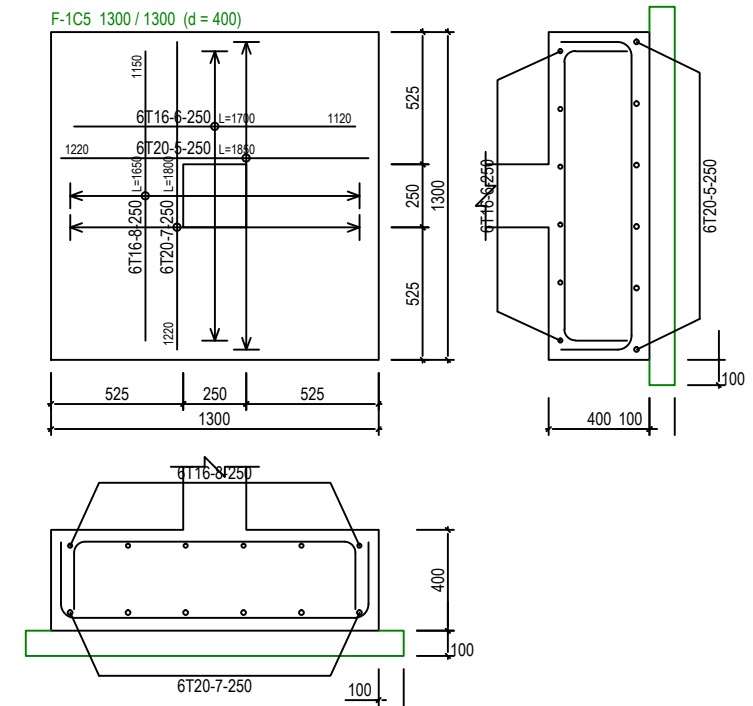
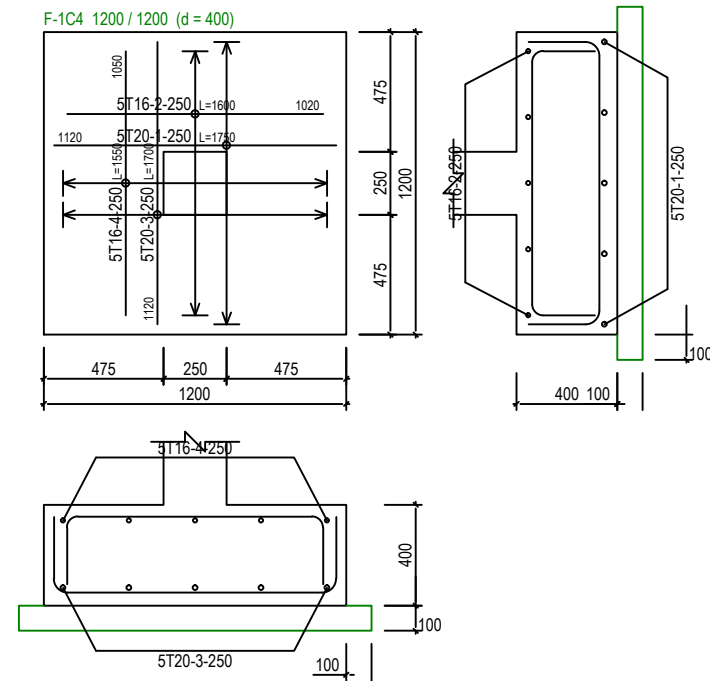
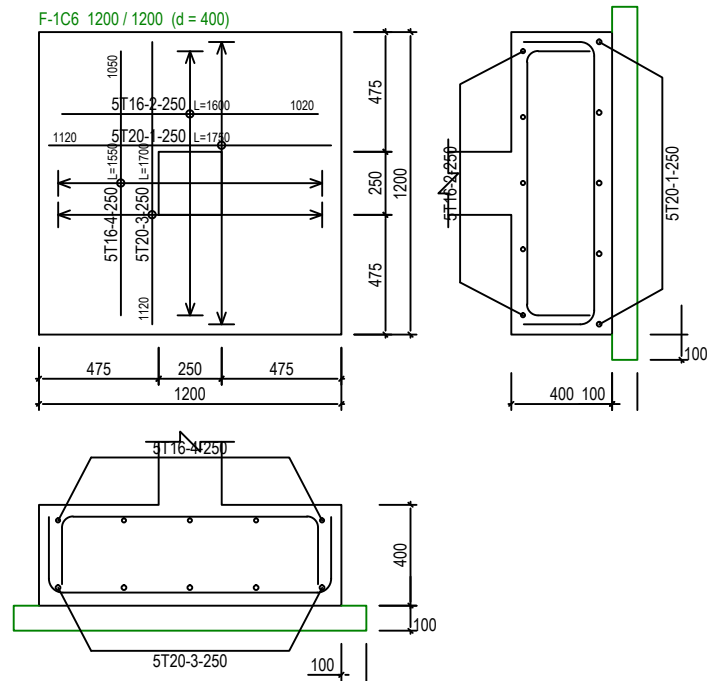
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SHEET NO:

DRAWING NO:

SBC/Q366/AFLO/2P/ST/CS-103A

REV:



## PAD FOOTING DETAILS [ALLOWABLE STRESS OF SOIL 200 kN/m<sup>2</sup>]

SCALE 1:30

St: 2 (+4.00m)	A-1	A-2	A-3	C-1	C-2	C-3
St: 1 (+1.00m)						
	1C1	1C2	1C3	1C4	1C5	1C6



SERI BUMI CONSULTANT  
CIVIL & STRUCTURAL ENGINEERING CONSULTANT  
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CLIENT:

NO.	AMENDMENTS	BY	DATE

DESIGNED BY  
DRAWN BY  
CHECKED BY  
APPROVED BY

THAN ZAW TUN  
SAI  
MD. YUNUS

DATE  
14/09/2022

SCALE:

N.T.S

TITLE:

COLUMN SCHEDULE

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:

SHEET NO:

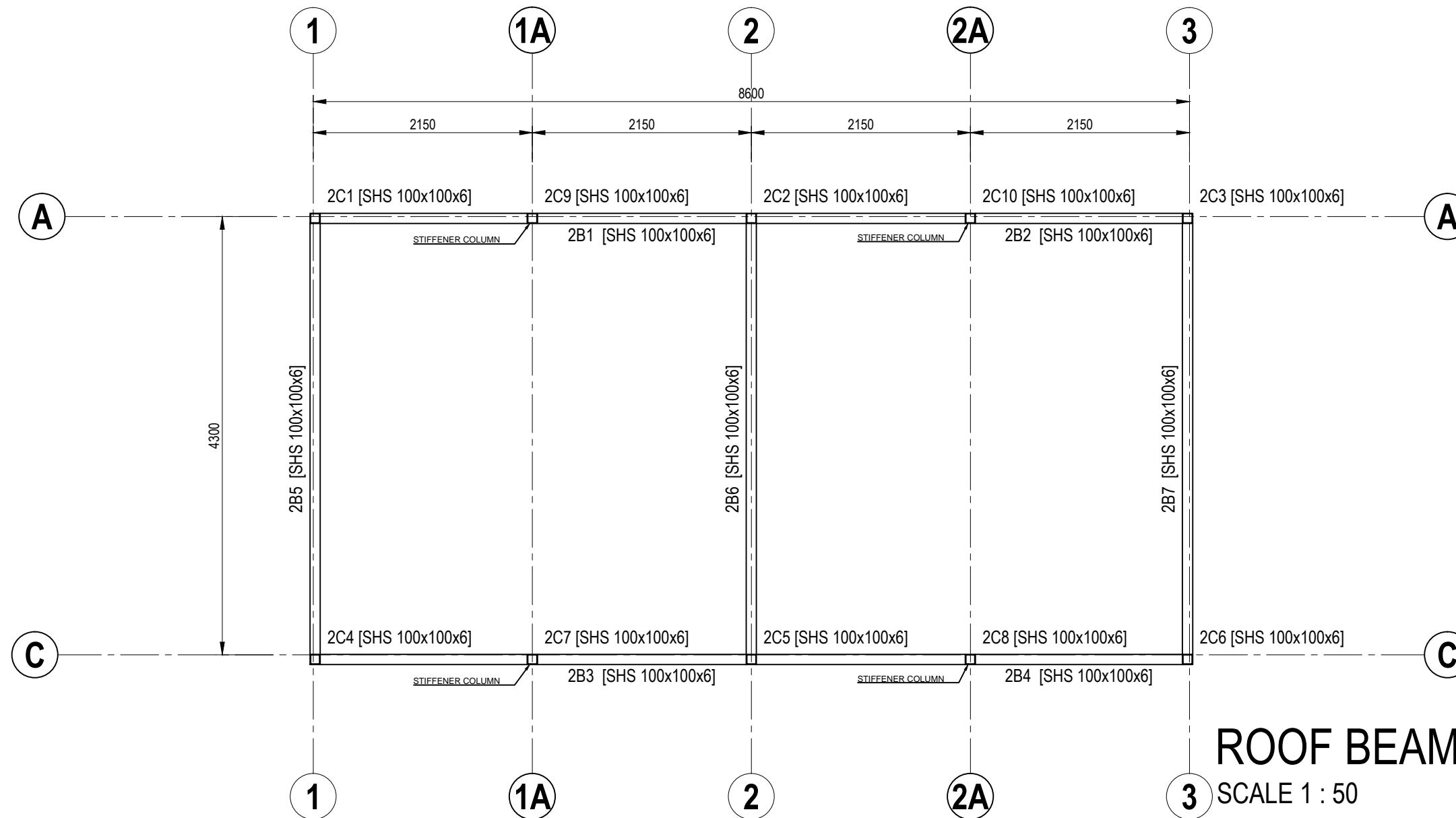
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SBC/Q366/AF/LQ/2P/ST/CS - 104

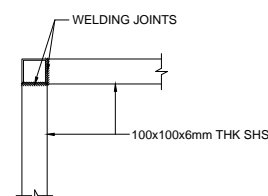
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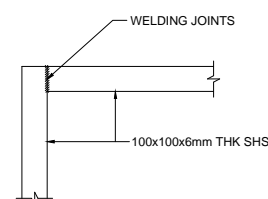




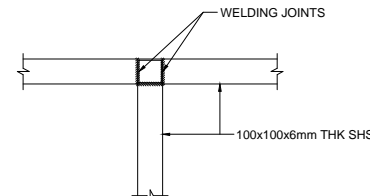
**ROOF BEAM LAYOUT PLAN**  
SCALE 1 : 50



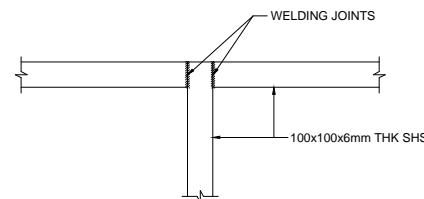
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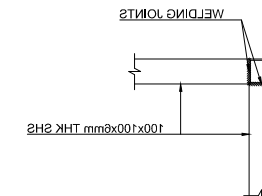
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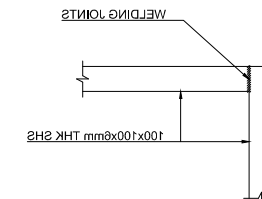
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SECTION



PLAN



SECTION



**SERI BUMI CONSULTANT**  
CIVIL & STRUCTURAL ENGINEERING CONSULTANT  
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TEL: 673-2427275 FAX: 673-2427279  
E-MAIL: sbc.brunel@gmail.com

CLIENT:

NO.	AMENDMENTS	BY	DATE

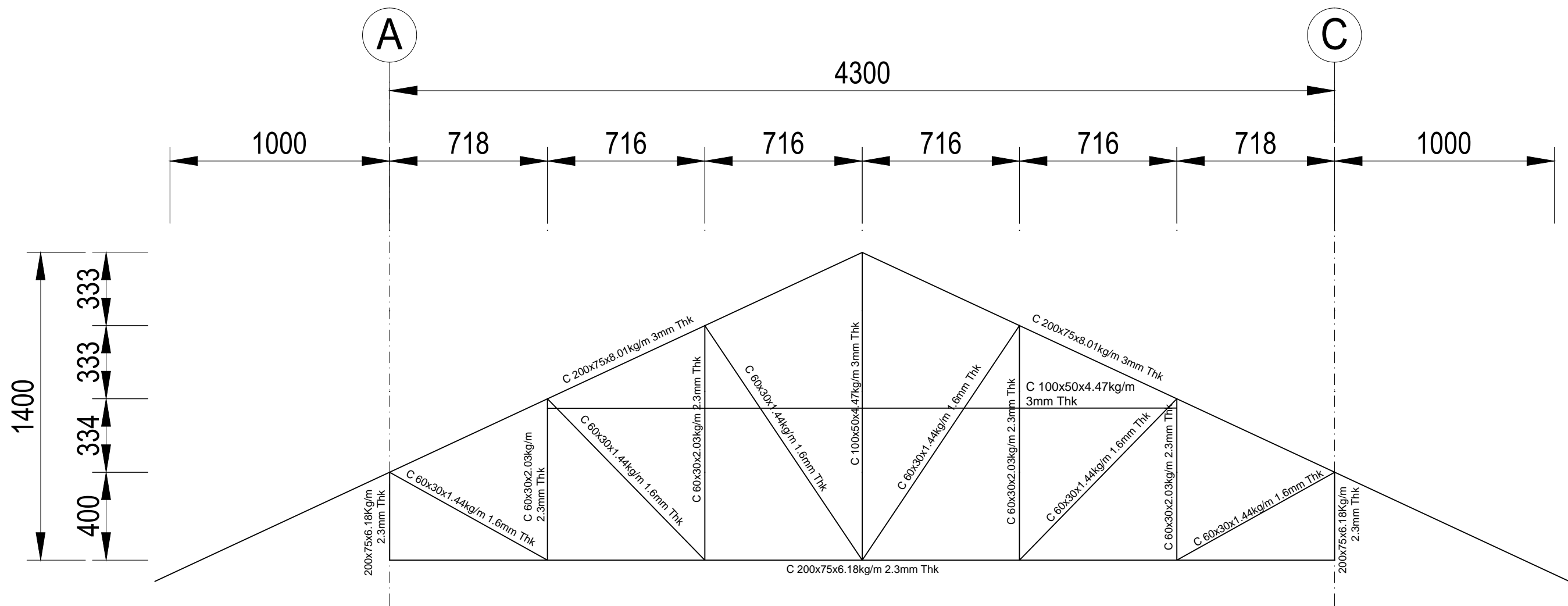
DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	14/09/2022

SCALE:  
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TITLE:  
ROOF BEAM LAYOUT PLAN  
PROJECT:  
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLO/2P/ST/CS - 300
REV:	





ROOF TRUSS SECTION (FOR ROOF TRUSS TO STEEL BEAM CONNECTION)



**SERI BUMI CONSULTANT**  
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CLIENT:


NO.	AMENDMENTS	BY	DATE

DESIGNED BY

THAN ZAW TUN

DRAWN BY

SAI

CHECKED BY

MD. YUNUS

APPROVED BY

DATE

20/09/2022

SCALE:

1:20

TITLE:

ROOF TRUSSES SECTION

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

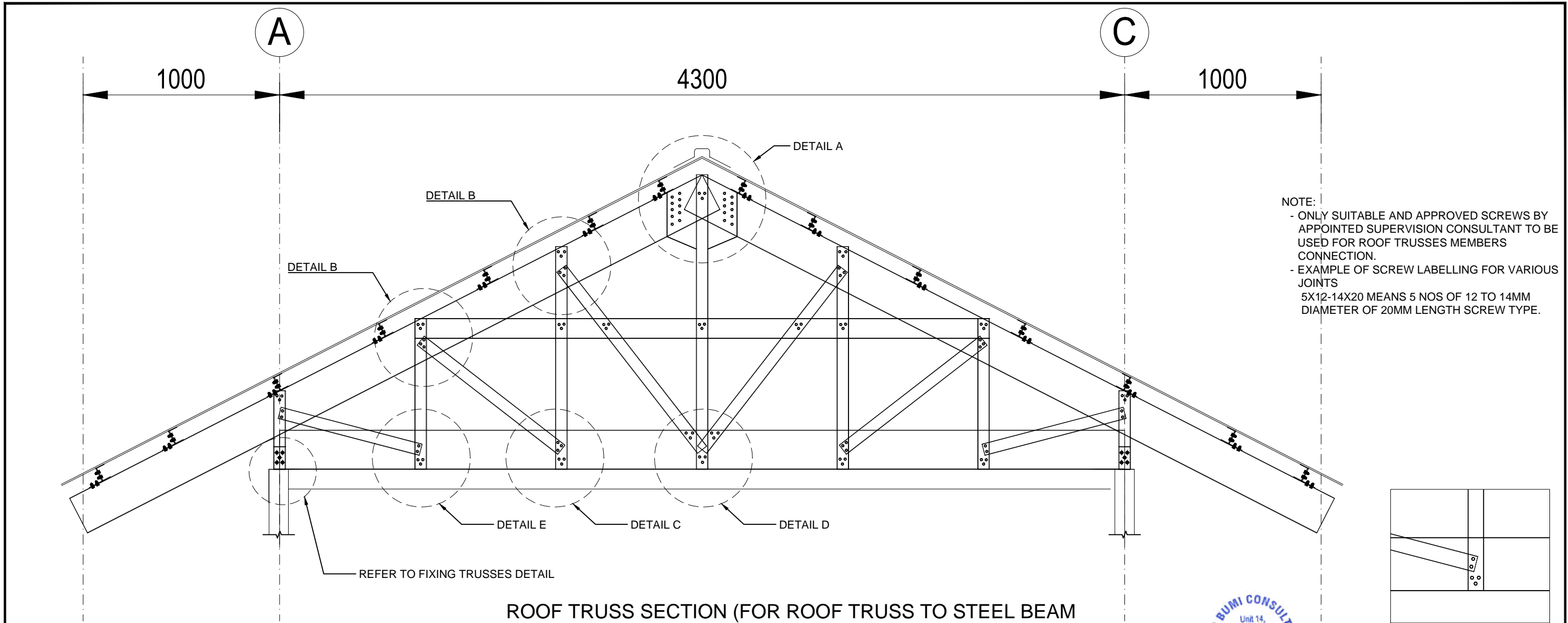
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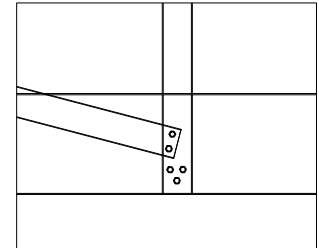
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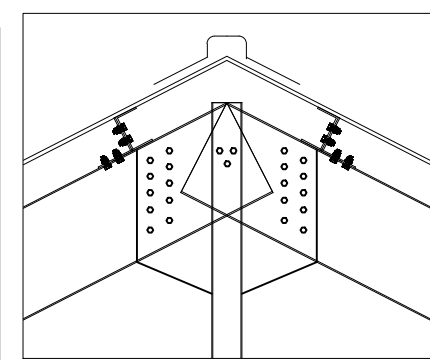
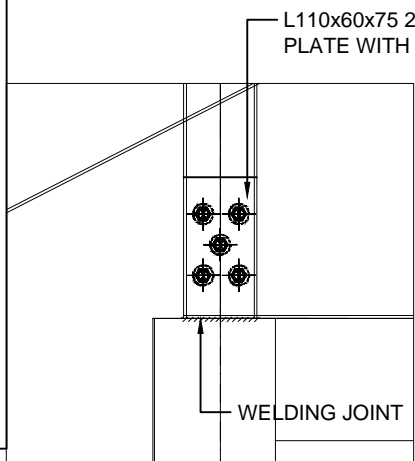
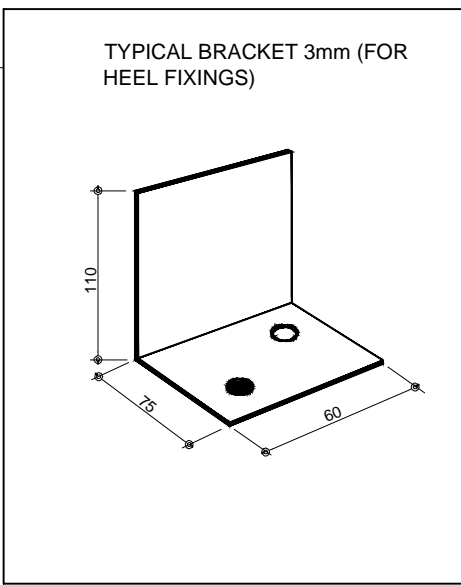
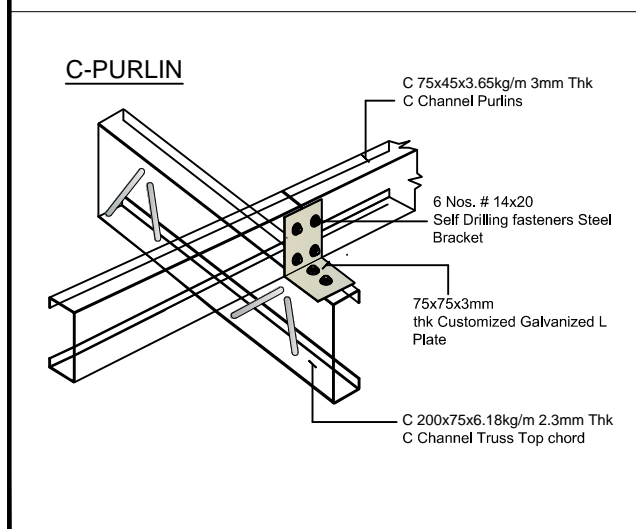
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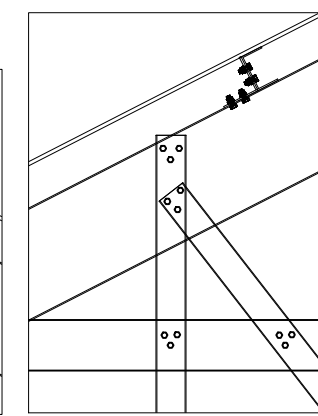
ROOF TRUSS SECTION (FOR ROOF TRUSS TO STEEL BEAM CONNECTION)



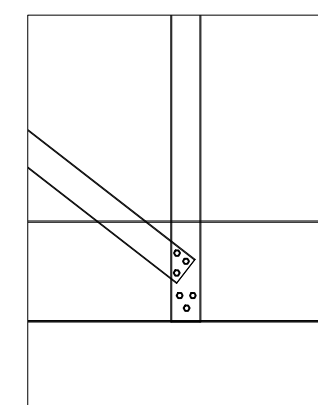
DETAIL E  
5 x 12-14 x 20  
SCREW



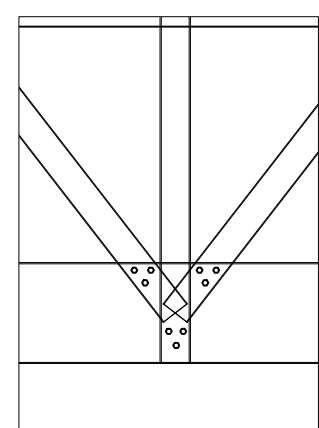
DETAIL A  
23 x 12-14 x 20  
SCREW





DETAIL B  
6 x 12-14 x 20  
SCREW

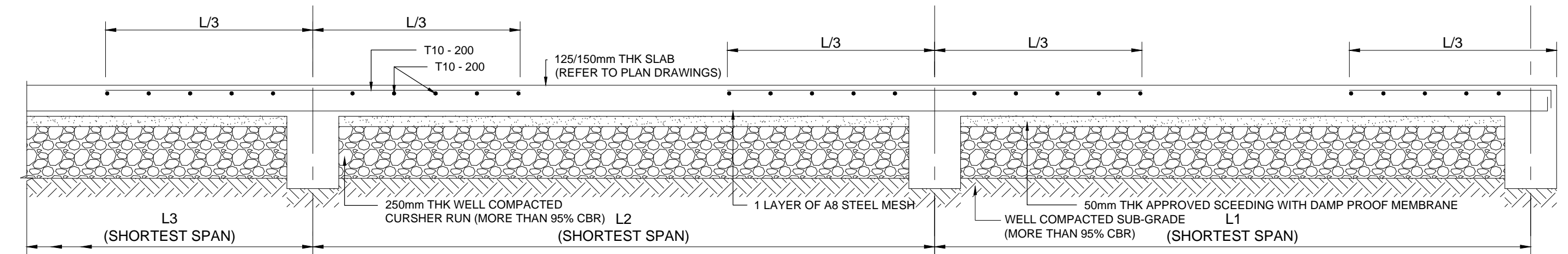


DETAIL C  
6 x 12-14 x 20  
SCREW



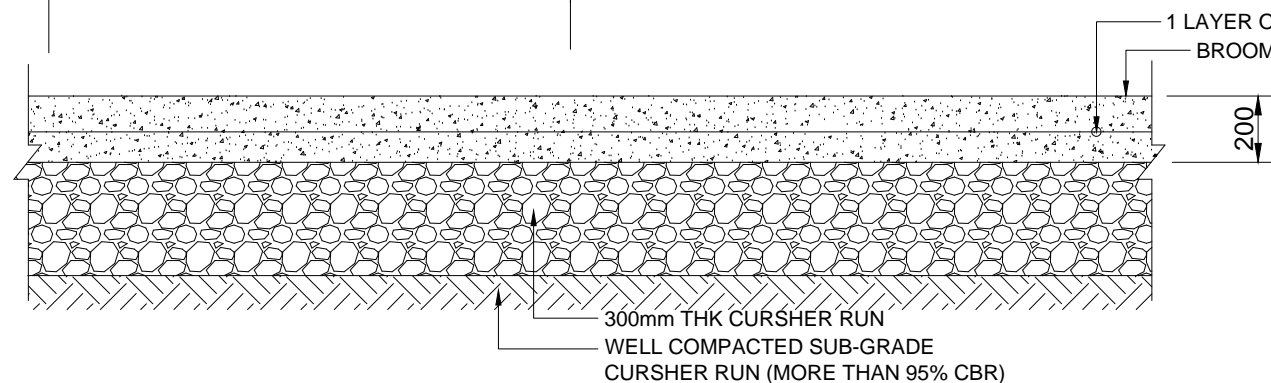
DETAIL D  
9 x 12-14 x 20  
SCREW

<div></div> <div>SERI BUMI CONSULTANT CIVIL &amp; STRUCTURAL ENGINEERING CONSULTANT No: 14, 2nd FLOOR, BLOCK A, GADONG CENTRAL, SIMPANG 21, JALAN GADONG, BSB, BRUNEI DARUSSALAM TEL: 673-2427275 FAX: 673-2427279 E-MAIL: sbc@brunei@gmail.com</div>	CLIENT:					DESIGNED BY	THAN ZAW TUN	SCALE:  1:20	TITLE:  ROOF TRUSSES AND PURLIN CONNECTIONS DETAILS	JOB NO:	
						DRAWN BY	SAI			SHEET NO:	
						CHECKED BY	MD. YUNUS			DRAWING NO:	
						APPROVED BY				REV:	
		NO.	AMENDMENTS	BY	DATE	DATE	20/09/2022				



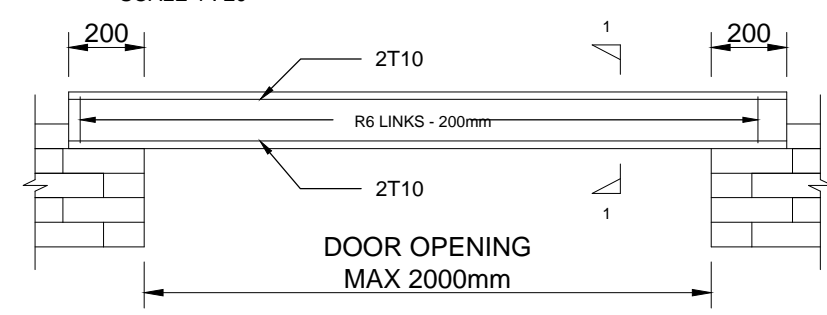
TYPICAL GROUND FLOOR SLAB DETAIL

SCALE 1 : 20



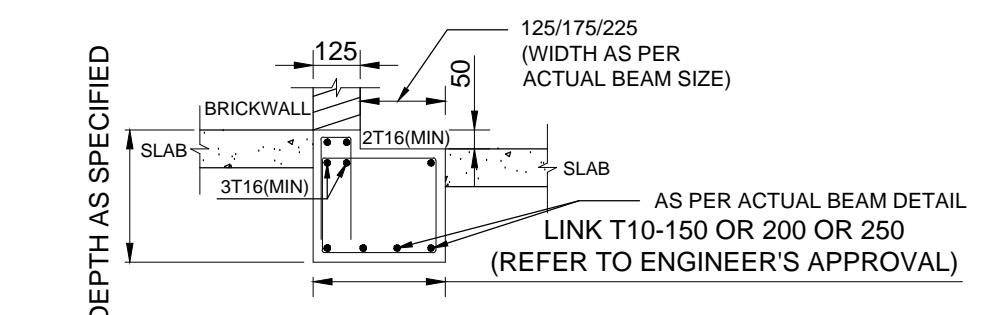
TYPICAL NON SUSPENDED SLAB DETAIL

SCALE 1 : 20

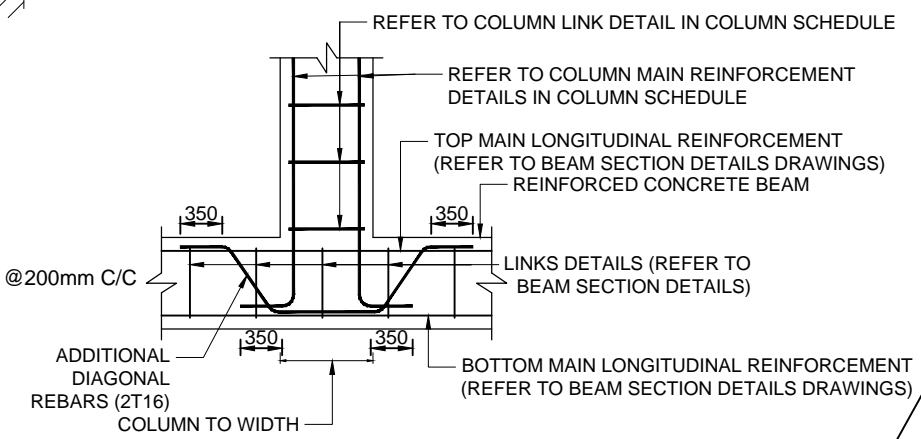


TYPICAL LINTEL BEAM DETAIL

SCALE 1 : 20

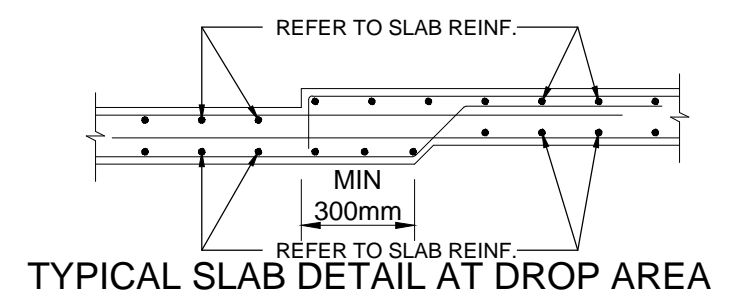


APPROXIMATE & TYPICAL BEAM DETAIL FOR 50mm OR 100mm DROP WHICH NEEDS TO BE ALIGNED/COORDINATED WITH ARCHITECT'S DRAWINGS.



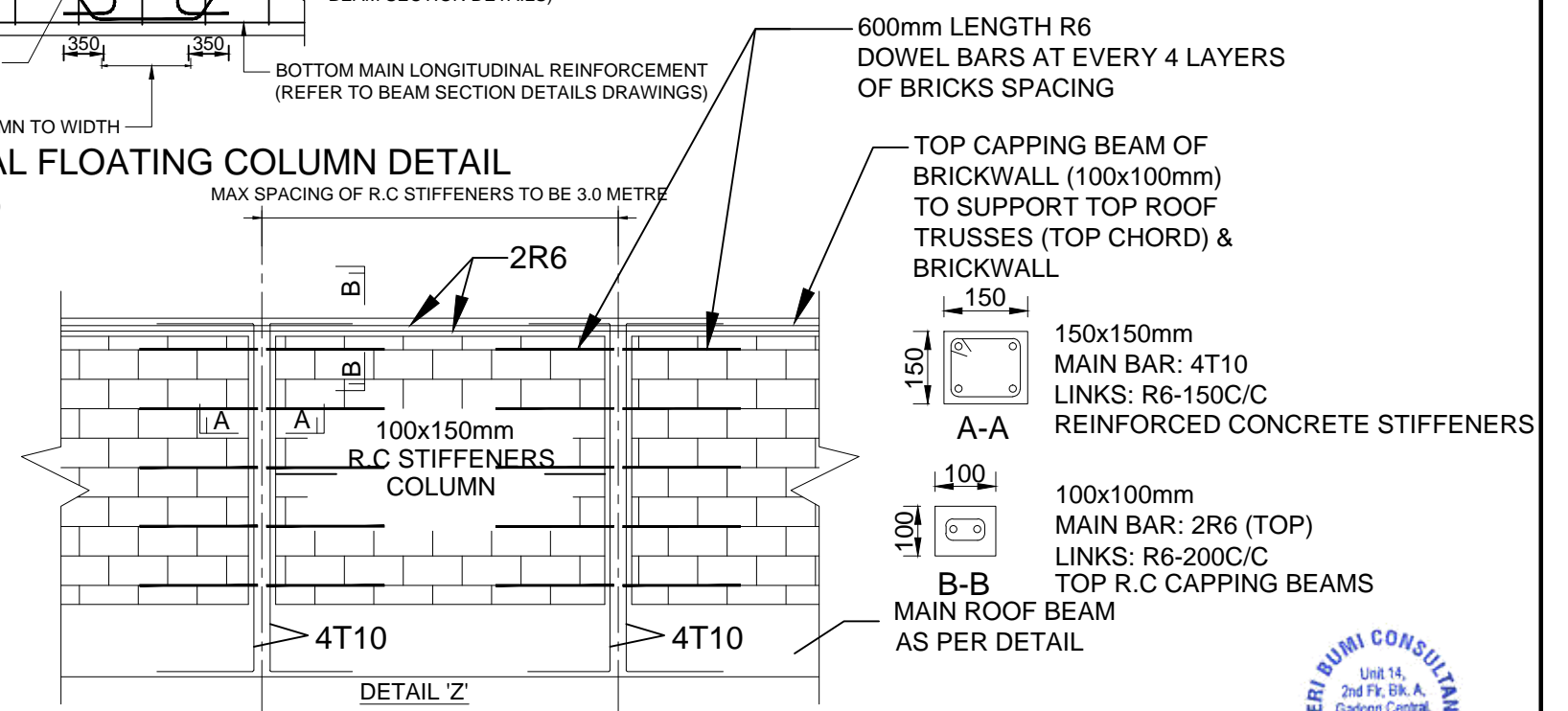
TYPICAL FLOATING COLUMN DETAIL

SCALE 1 : 20




TYPICAL SLAB DETAIL AT DROP AREA

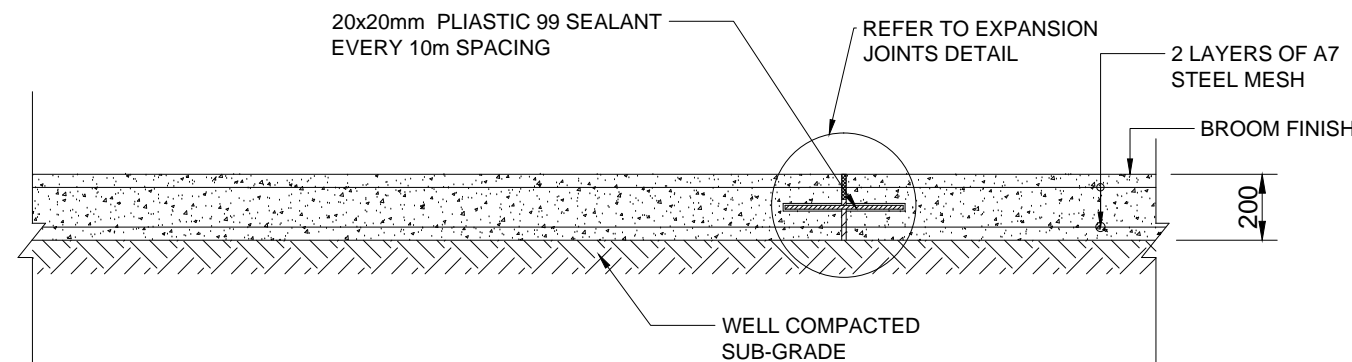
SCALE 1 : 20



TYPICAL REINFORCED CONCRETE STIFFENER COLUMNS & CAPPING BEAMS DETAILS

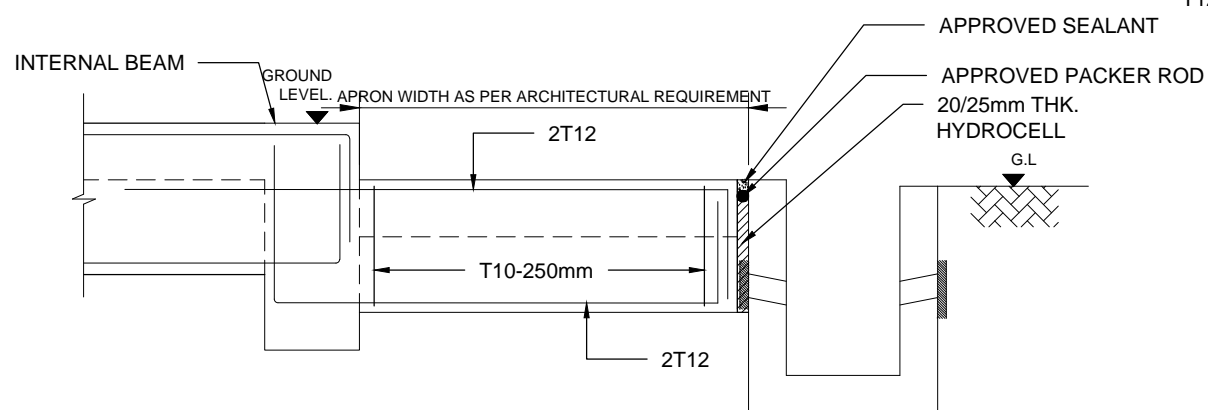
<div></div> <div><b>SERI BUMI CONSULTANT</b> CIVIL &amp; STRUCTURAL ENGINEERING CONSULTANT  No: 14, 2nd FLOOR, BLOCK A, GADONG CENTRAL, SIMPANG 21, JALAN GADONG, 8SB, BRUNEI DARUSSALAM TEL: 673-2427275 FAX: 673-2427279 E-MAIL: sbc.brunel@gmail.com</div>	CLIENT:						DESIGNED BY	THAN ZAW TUN		SCALE:  1:20	TITLE:  MISCELLANEOUS DETAILS 1	JOB NO:			
							DRAWN BY	SAI				SHEET NO:			
							CHECKED BY	MD. YUNUS				PROJECT:  PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)	DRAWING NO:  SBC/Q366/AFLQ/2P/RC/MISC-100	REV:	
							APPROVED BY		DATE						14/09/2022
		NO.	AMENDMENTS		BY	DATE									





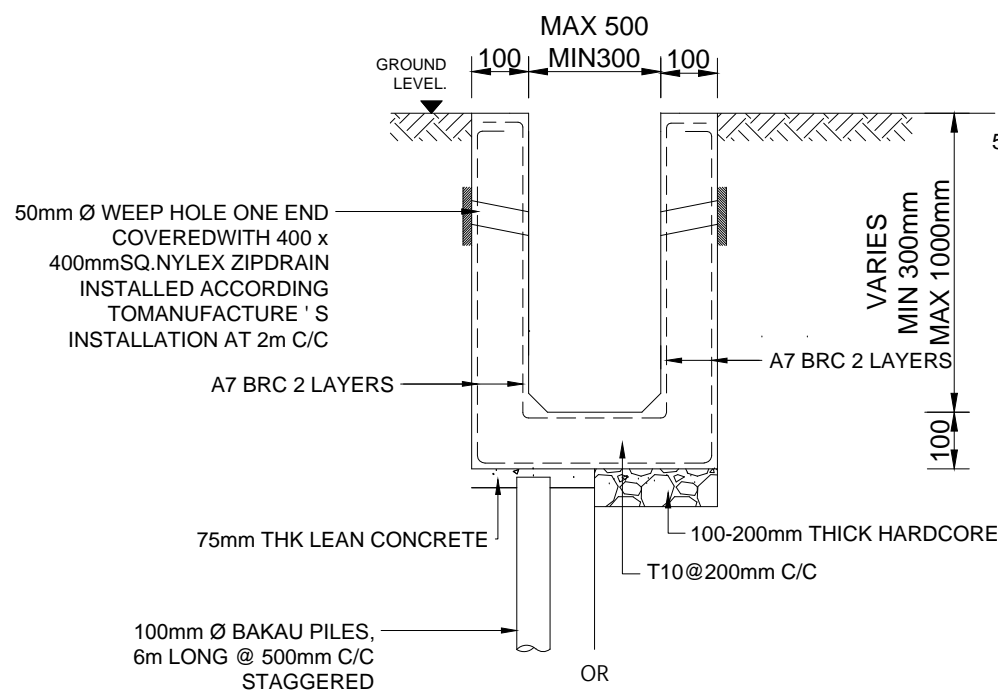
TYPICAL ACCESS ROAD DETAIL/CAR PARK SLAB DETAIL

SCALE 1 : 20



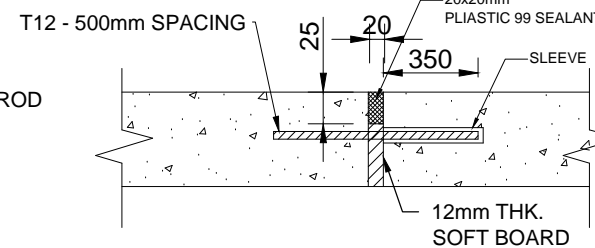
TYPICAL APRON BEAM DETAIL(200x450)

SCALE 1 : 20



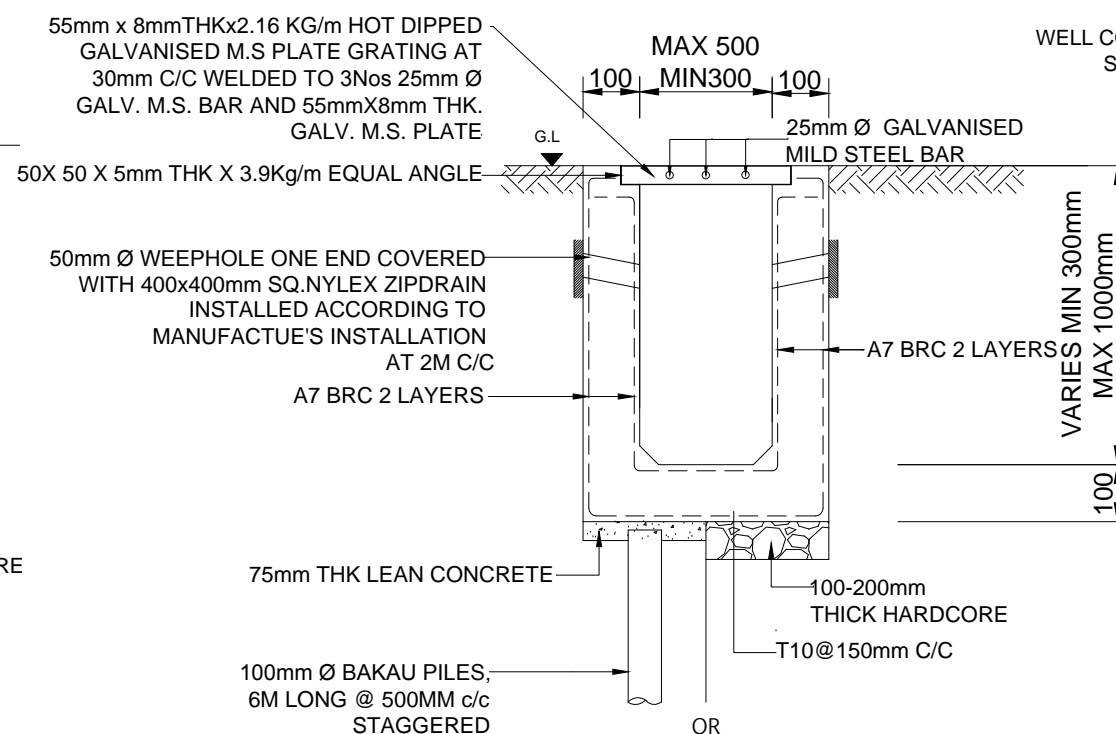
R.C DRAIN DETAIL

SCALE 1 : 20



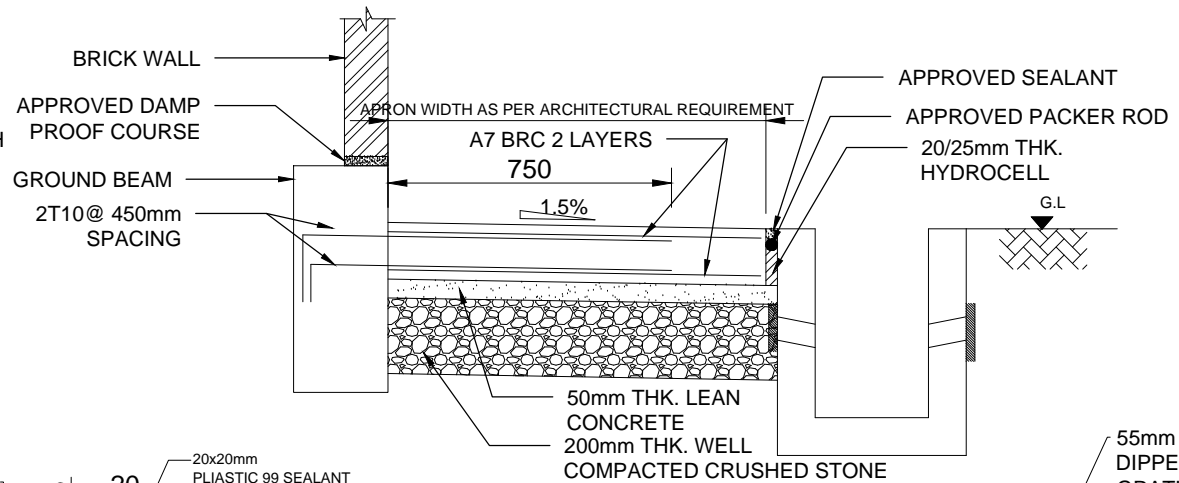
EXPANSION JOINTS DETAIL

SCALE 1 : 20



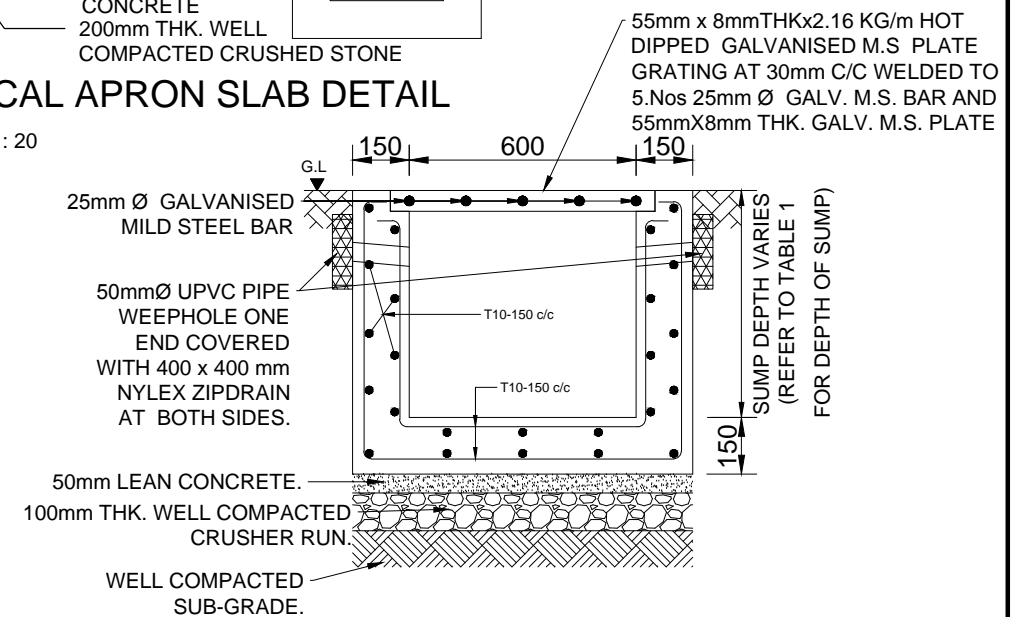
R.C DRAIN WITH GRATING DETAIL

SCALE 1 : 20



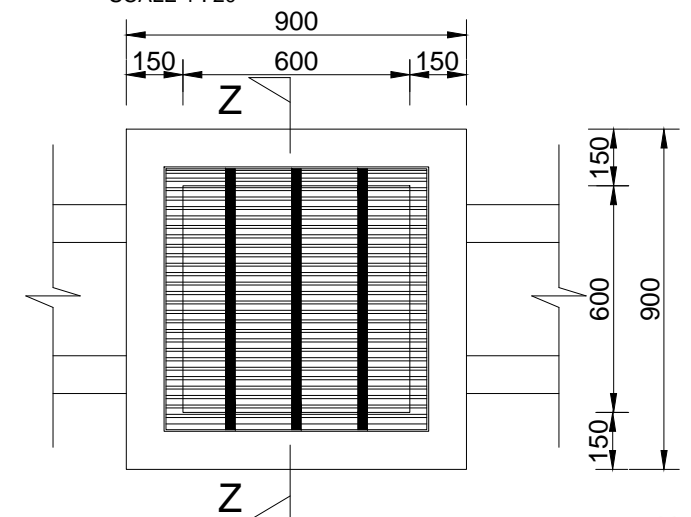
TYPICAL APRON SLAB DETAIL

SCALE 1 : 20



TYPICAL SECTION 'Z-Z'  
600x600mm R.C SUMP DETAIL

SCALE 1 : 20



R.C SUMP PLAN LAYOUT

SCALE 1 : 20



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CLIENT:

NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	14/09/2022

SCALE:  
1:20

TITLE:	MISCELLANEOUS DETAILS 2
PROJECT:	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLQ/2P/ST/MISC-101
REV:	



PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,  
BRUNEI DARUSSALAM (FOR 2 PERSONS)

DRAWING LIST

ITEM	DRAWING NUMBER	DRAWING TITLE
1	JOMC/254/FH/100	SITE DEVELOPMENT PLAN FIRE HYDRANT LAYOUT PLAN - (FOR 2 PERSONS)
2	JOMC/254/AC/200	GROUND FLOOR AIR CONDITIONING LAYOUT - (FOR 2 PERSONS)
3	JOMC/254/L/200	GROUND FLOOR LIGHTING LAYOUT - (FOR 2 PERSONS)
4	JOMC/254/P/200	GROUND FLOOR POWER LAYOUT - (FOR 2 PERSONS)
5	JOMC/254/P/300	SOLAR SYSTEM LAYOUT DIAGRAM - (FOR 2 PERSONS)
6	JOMC/254/F/200	GROUND FLOOR FIRE PROTECTION LAYOUT - (FOR 2 PERSONS)
7	JOMC/254/T/200	GROUND FLOOR TELEPHONE LAYOUT - (FOR 2 PERSONS)
8	JOMC/254/T/300	TELEPHONE SYSTEM SCHEMATIC DIAGRAM - (FOR 2 PERSONS)
9	JOMC/254/W/200	GROUND FLOOR PLUMBING LAYOUT - (FOR 2 PERSONS)
10	JOMC/254/W/300	PLUMBING SCHEMATIC DIAGRAM - (FOR 2 PERSONS)
11	JOMC/254/SEW/200	GROUND FLOOR SANITARY LAYOUT - (FOR 2 PERSONS)
12	JOMC/254/SEW/300	SANITARY SCHEMATIC DIAGRAM - (FOR 2 PERSONS)
13	JOMC/254/SEW/301	SANITARY SEWER LINE INVERT LEVEL - (FOR 2 PERSONS)

13 September 2022 - 3:10 PM \\JDKCDAT\BANK\Share\JDKCD\Projects\254 - Design Services for Agricultural Farm Labour Quarters (M&E)\Drawings\2. Workshop drawings\220906\REV\JOMC-254-2 PERSONS-M&E.dwg

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GENERAL NOTES

REV	DESCRIPTION	DATE	BY

CLIENT


DEPARTMENT OF AGRICULTURE AND AGRIFOOD, BRUNEI DARUSSALAM

ARCHITECT




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P.O Box 272  
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ENGINEER



**Jurutera OMC**  
Chartered Engineers  
Engineering Consultant, Design, Management & Services  
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Email : juruteraomc@yahoo.com



JURUTERA OMC  
Engineering Consultant, Design  
CHIN LEE TUCK  
REGISTRATION NO. BAPEQS/PE2022007-E

PROJECT TITLE

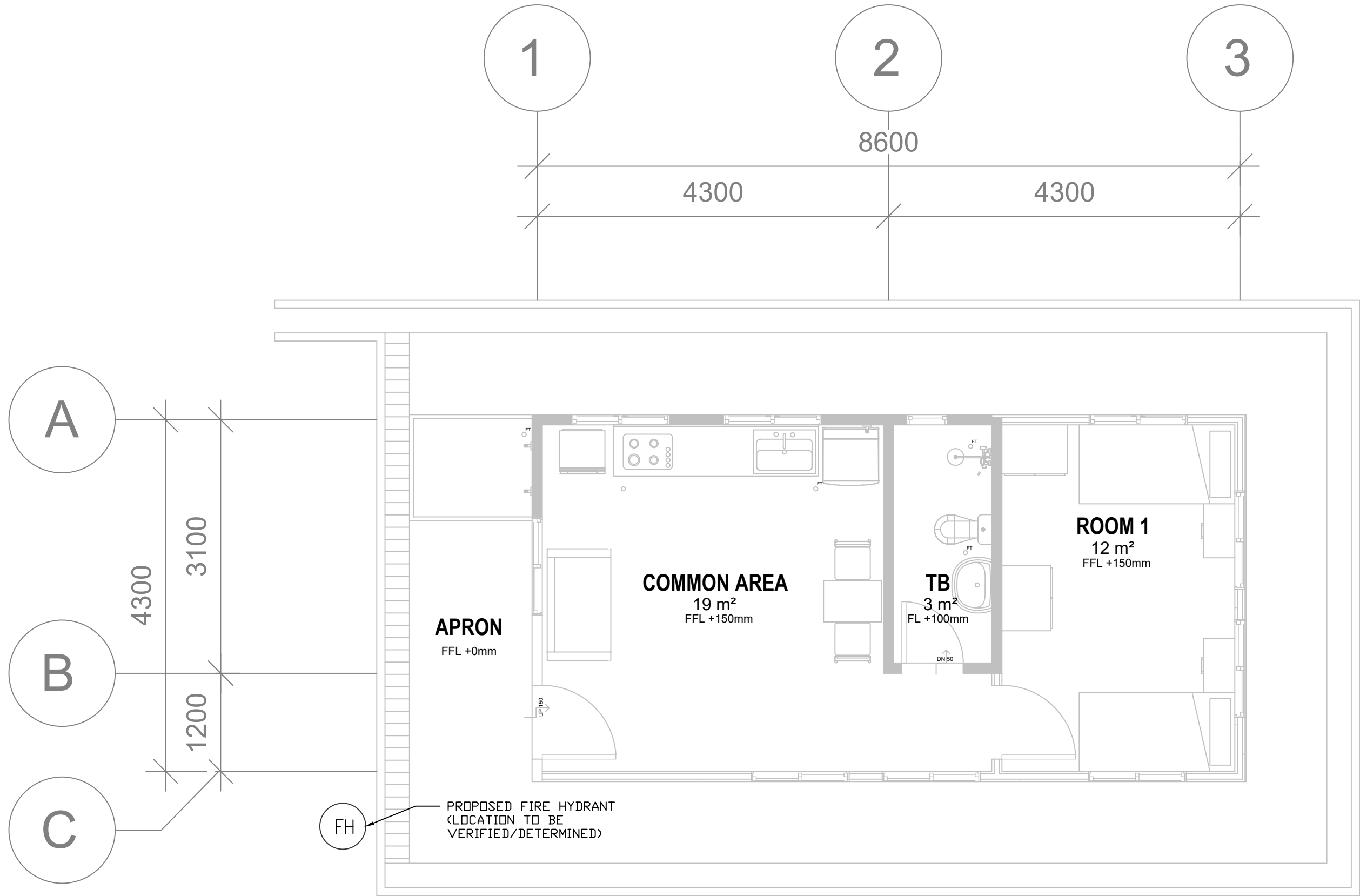
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)

DRAWING TITLE

DRAWING LIST - SHEET 1 OF 1 - (FOR 2 PERSONS)

DRAWN BY:	FS	DESIGN BY:	FS	SCALE:	NTS
CHECKED BY:	CLT	DATE:	SEPT 2022	JOB NO:	254
DRAWING NO:	JOMC/254/DWG/000				

12 September 2022 - 2:54 PM \\JDKMD\DATA\BANK\ShareFolder\JOMC Projects\1254 - Design Services for Agricultural Farm Labour Quarters (M&E)\1 Drawings\2 Workshop drawings\220906\REV\1 JOMC-254-2 PERSONS-M&E.dwg



GROUND FLOOR PLAN

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Tel : 673-2342688 Fax : 673-2342483  
Email : juruteraomc@yahoo.com

Engineering Consultant, Design, Management & Services



PROJECT TITLE

**PROPOSED NEW 1 UNIT STANDARD DESIGN  
OF FARM LABOUR QUARTERS, BRUNEI  
DARUSSALAM (FOR 2 PERSONS)**

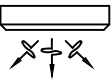
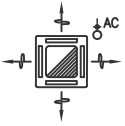
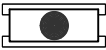
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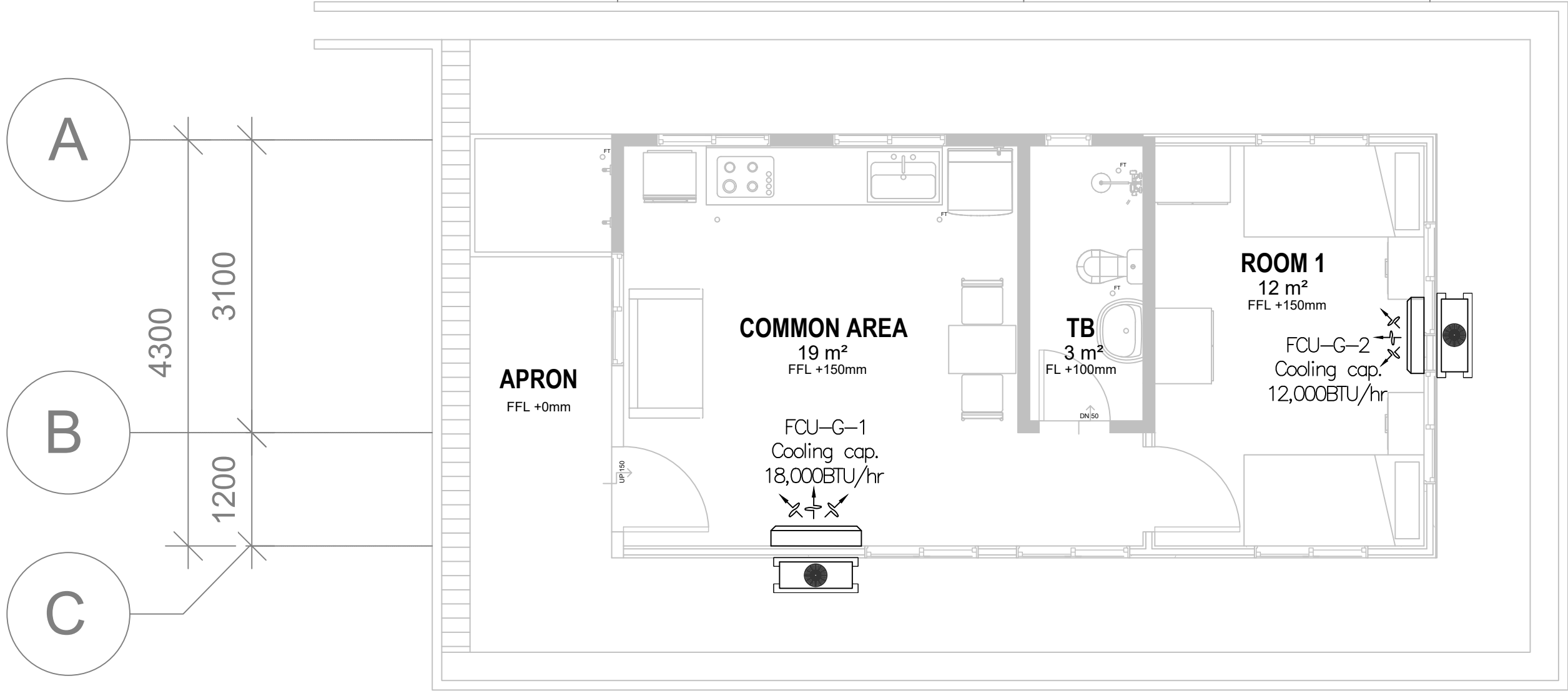
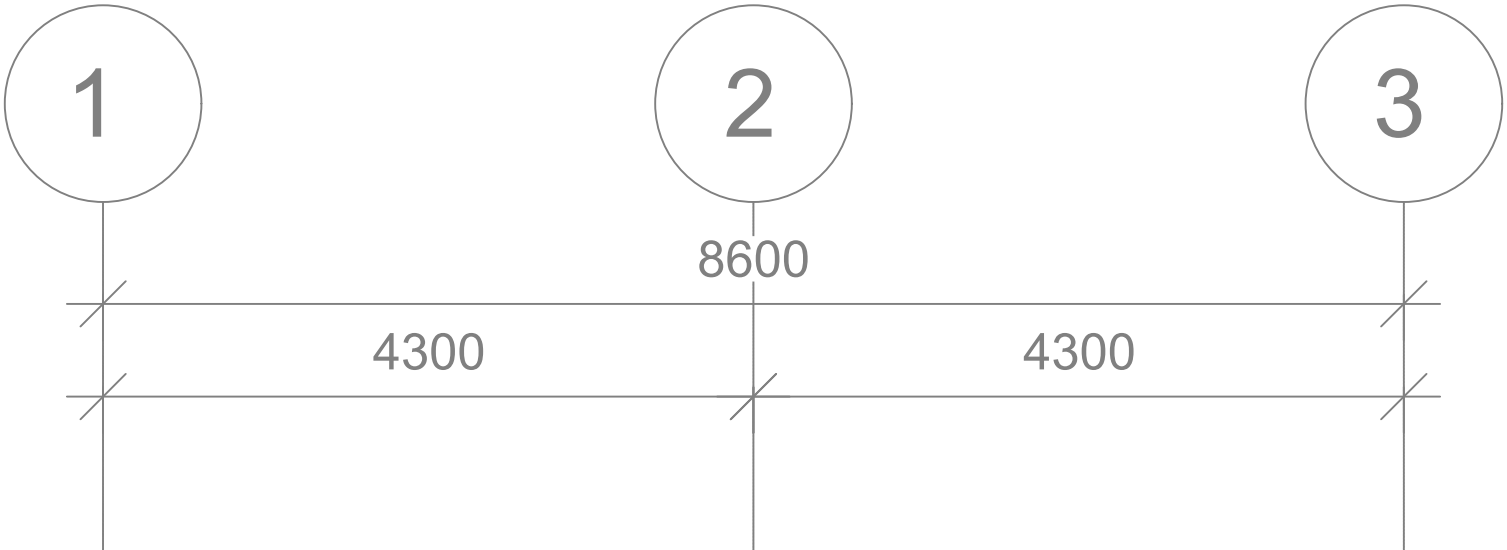
**SITE DEVELOPMENT PLAN FIRE HYDRANT LAYOUT PLAN  
- (FOR 2 PERSONS)**

DRAWN BY:	FS	DESIGN BY:	FS	SCALE:	1:50
CHECKED BY:	CLT	DATE:	SEPT 2022	JOB NO:	254



DRAWING NO: JOMC/254/FH/100

13 September, 2022 - 2:08 PM \\JDKMCDAT\BANK\Share\JDKMCDAT\Projects\1254 - Design Services for Agricultural Farm Labour Quarters (M&E)\1. Drawings\2. Workshop drawings\220906\REV\1\JDKMCDAT-254-2 PERSONS-M&E.dwg









LEGEND	
	WALL TYPE FAN COIL UNIT C/W 1X15A S.S.O. (ENERGY EFFICIENT)
	4-WAY CASSETTE FCU C/W 1X15A S.S.O.
	AIR-COND CONDENSING UNIT

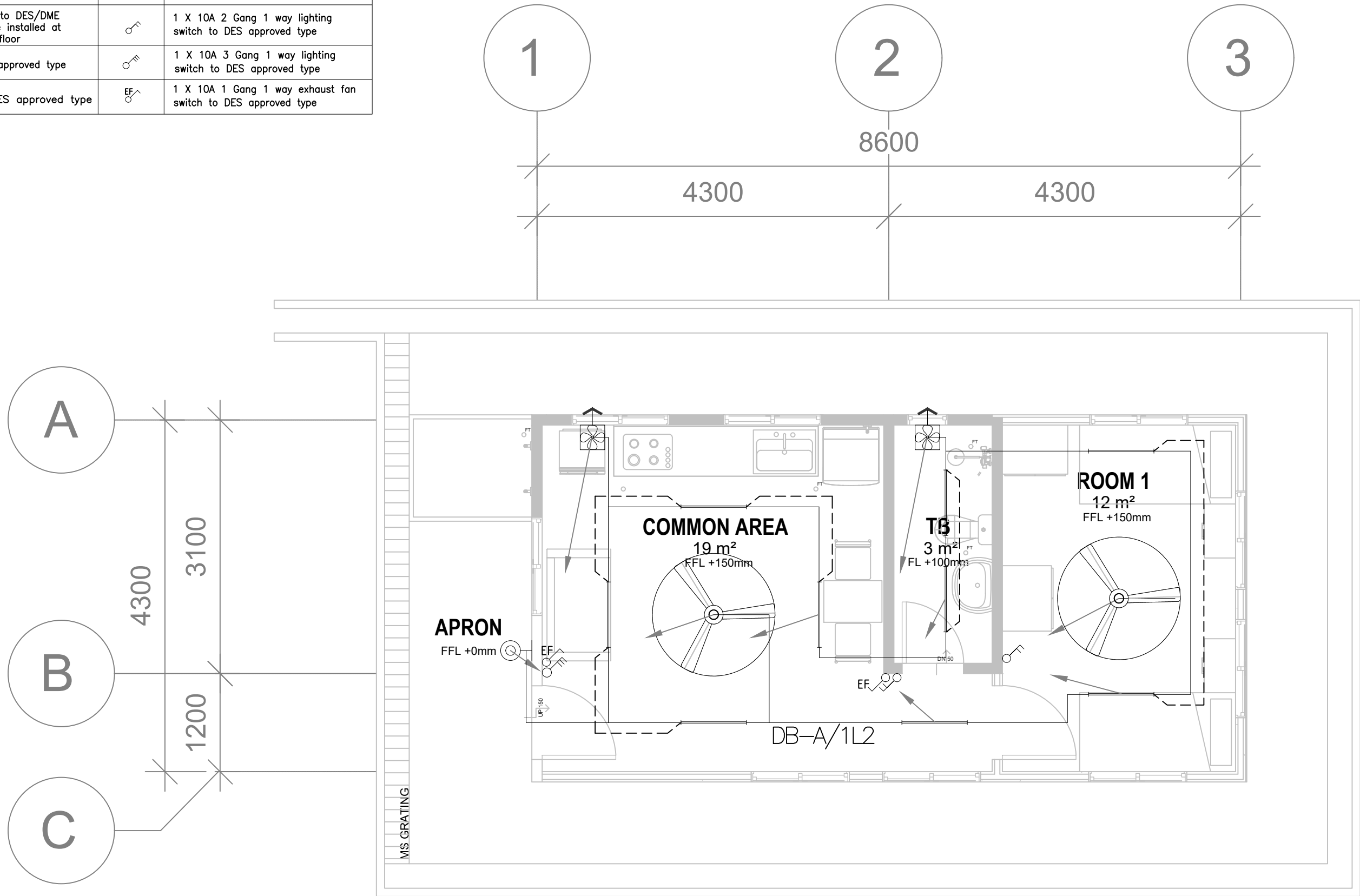


GROUND FLOOR PLAN




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						DEPARTMENT OF AGRICULTURE AND AGRIFOOD, BRUNEI DARUSSALAM	 Chartered Engineers Engineering Consultant, Design, Management & Services 2nd Floor, Unit 17 & 18, Block C, Melabau Complex, Jalan Serusop, BB2313, B. S. B. Brunei Darussalam Tel : 673-2342688 Fax : 673-2342483 Email : juruteraomc@yahoo.com	 KHA Arkitek P.O. Box 272 MPC, Old Airport, Seremban 703122 Contact No: 2810380	<b>PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)</b>	GROUND FLOOR PLAN AIR-CONDITIONING LAYOUT - (FOR 2 PERSONS)
										DRAWN BY: FS      DESIGN BY: FS      SCALE: 1:50
										CHECKED BY: CLT      DATE: SEPT 2022      JOB NO: 254
GENERAL NOTES	REV	DESCRIPTION	DATE	BY						DRAWING NO: JOMC/254/AC/200









12 September 2022 - 2:54 PM \\JOMC\DATA\BANK\ShareFolder\JOMC Projects\1254 - Design Services for Agricultural Farm Labour Quarters (M&E)\Drawings\2. Workshop drawings\220906\REV\ JOMC-254-2 PERSONS-M&E.dwg

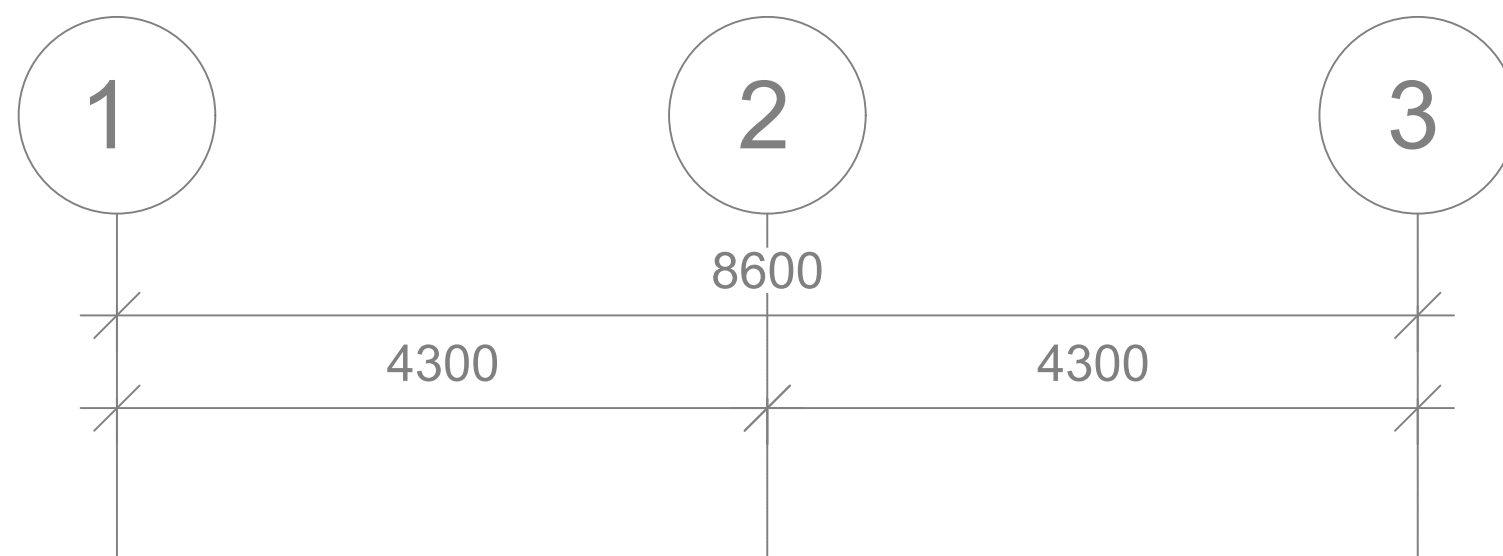
LEGEND			
	1X18W LED Tube Lighting to DES approved type		1 X 10A 1 Gang 1 way lighting switch to DES approved type
	18W LED Wall Light to DES/DME approved type to be installed at 0.30m height from floor		1 X 10A 2 Gang 1 way lighting switch to DES approved type
	Ceiling Fan to DES approved type		1 X 10A 3 Gang 1 way lighting switch to DES approved type
	Exhaust Fan to DES approved type		1 X 10A 1 Gang 1 way exhaust fan switch to DES approved type



GROUND FLOOR PLAN

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	REV	DESCRIPTION	DATE	BY						DRAWN BY: FS	DESIGN BY: FS	SCALE: 1:50
										CHECKED BY: CLT	DATE: SEPT 2022	JOB NO: 254
										DRAWING NO:	JOMC/254/L/200	

LEGEND	
SYMBOL	DESCRIPTION
	1X13A SWITCH SOCKET OUTLET TO DES / DME APPROVED TYPE
	2X13A SWITCH SOCKET OUTLET TO DES / DME APPROVED TYPE
	1X13A WEATHERPROOF SWITCH SOCKET OUTLET TO DES / DME APPROVED TYPE
	1X15A S.S.O FOR AC INSTALLED ON THE HIGH LEVEL TO DES / DME APPROVED TYPE
	ELECTRICAL DISTRIBUTION BOARD TO DES / DME APPROVED TYPE
	COOKER UNIT C/W 1x13A SSO TO DES / DME APPROVED TYPE
	WATER HEATER @ 5 GALLONS CAPACITY C/W 20A DOUBLE POLE NEON SWITCH
	PREPAID METER TO DES / DME APPROVED TYPE



## GROUND FLOOR PLAN

REV	DESCRIPTION	DATE	BY

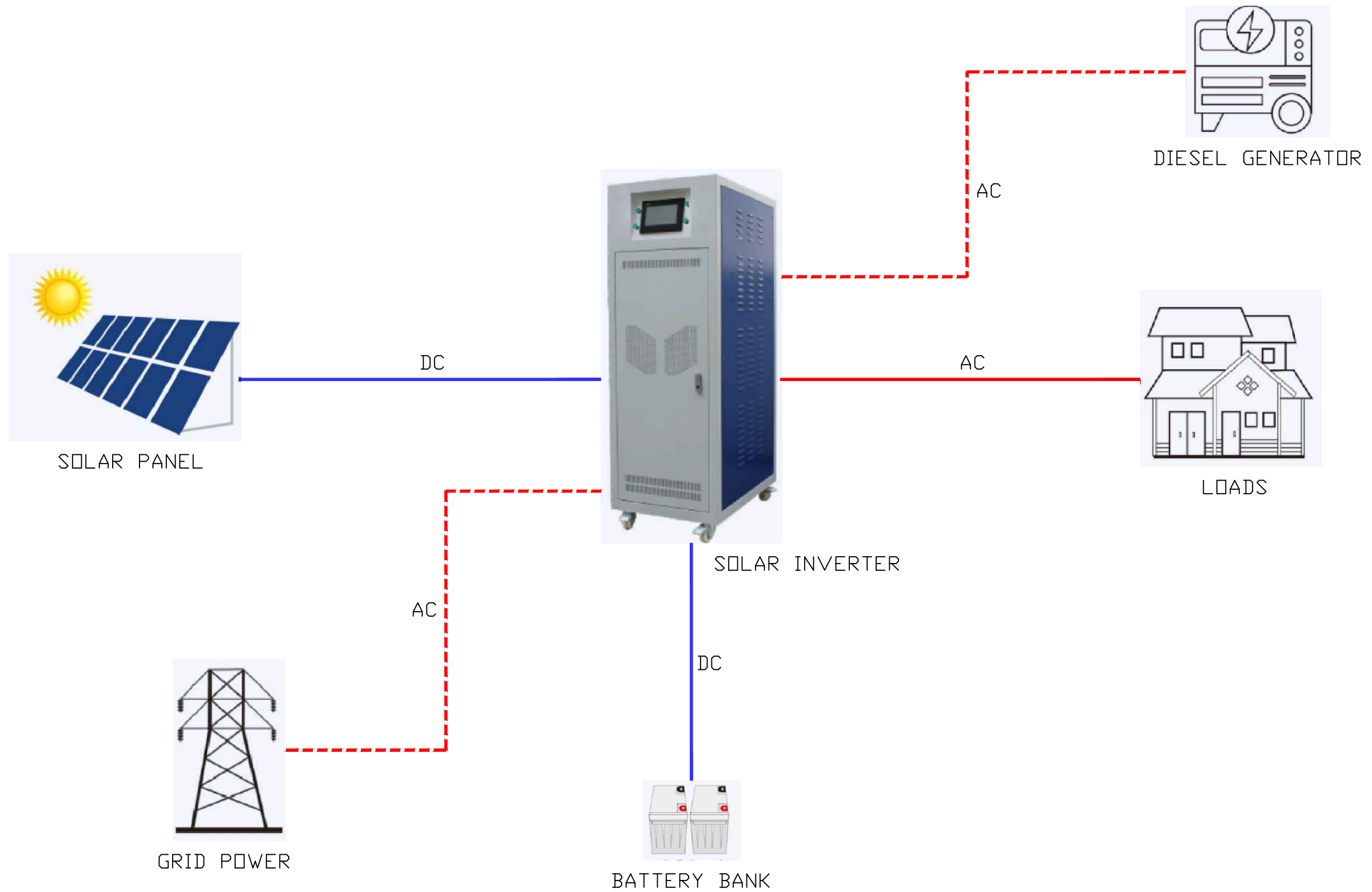
ARCHITECT

ENGINEER

**PROPOSED NEW 1 UNIT STANDARD DESIGN  
OF FARM LABOUR QUARTERS, BRUNEI  
DARUSSALAM (FOR 2 PERSONS)**

DRAWING TITLE				
GROUND FLOOR PLAN POWER LAYOUT - (FOR 2 PERSONS)				
DRAWN BY:	FS	DESIGN BY:	FS	SCALE: 1:50
CHECKED BY:	CLT	DATE:	SEPT 2022	JOB NO: 254
DRAWING NO:	JOMC/254/P/200			

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SOLAR SYSTEM LAYOUT DIAGRAM

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PROJECT TITLE

**PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)**

DRAWING TITLE






SOLAR SYSTEM LAYOUT DIAGRAM - (FOR 2 PERSONS)

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SYMBOL	DESCRIPTION
	TELEPHONE OUTLET POINT (WITH INTERCOM) TO BE INSTALLED AT 350mm HEIGHT TO UNN APPROVED TYPE
	FOOT JUNCTION BOX (FJB) TO UNN APPROVED TYPE
	FIBER DISTRIBUTION TERMINAL (FDT) TO UNN APPROVED TYPE
	ACCESS TERMINATION BOX TO UNN APPROVED TYPE
	ACCESS POINT TO UNN APPROVED TYPE

TO BE CONNECTED TO THE  
NEAREST UNN EXISTING MANHOLE

A

B

C

4300

3100

1200

FJB

APRON  
FFL +0mm

COMMON AREA  
19 m<sup>2</sup>  
FFL +150mm

TB  
3 m<sup>2</sup>  
FL +100mm

ROOM 1  
12 m<sup>2</sup>  
FFL +150mm

AP

ATB

GROUND FLOOR PLAN

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PROJECT TITLE

**PROPOSED NEW 1 UNIT STANDARD DESIGN  
OF FARM LABOUR QUARTERS, BRUNEI  
DARUSSALAM (FOR 2 PERSONS)**

DRAWING TITLE

GROUND FLOOR PLAN TELEPHONE LAYOUT  
- (FOR 2 PERSONS)

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DESIGN BY:

FS

SCALE:

1:50

CHECKED BY:

CLT

DATE:

SEPT 2022

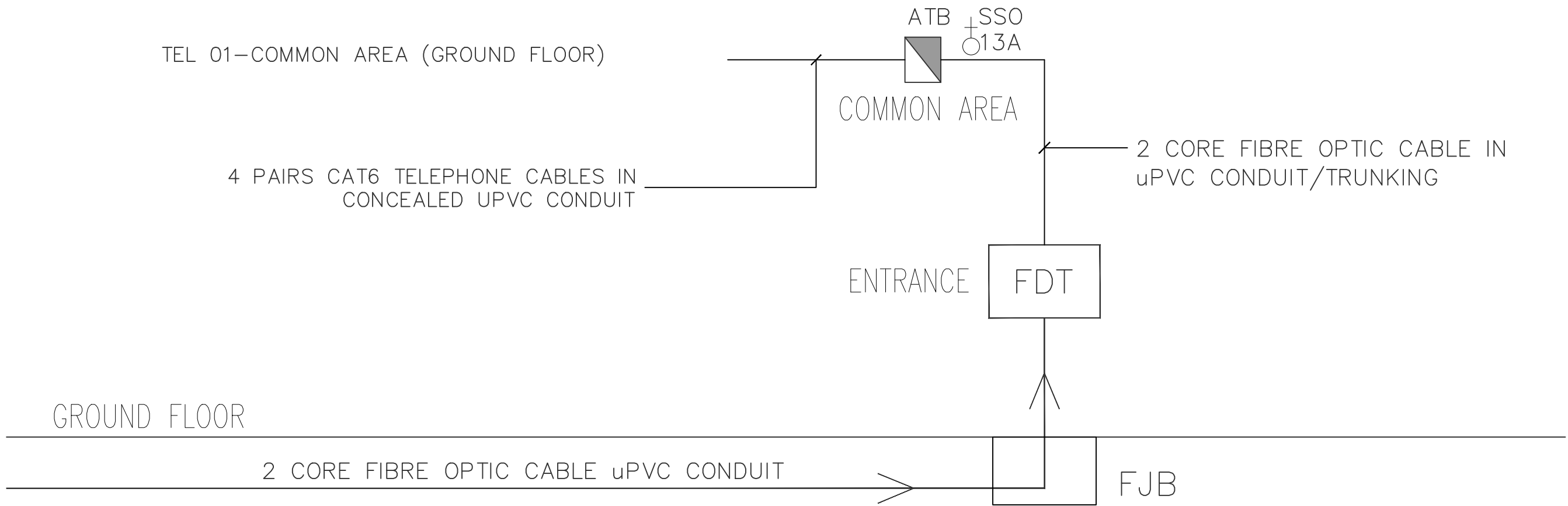
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DRAWING NO:

JOMC/254/T/200

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# TELEPHONE SYSTEM SCHEMATIC DIAGRAM

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Engineering Consultant, Design, Management & Services



PROJECT TITLE

**PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)**



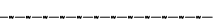
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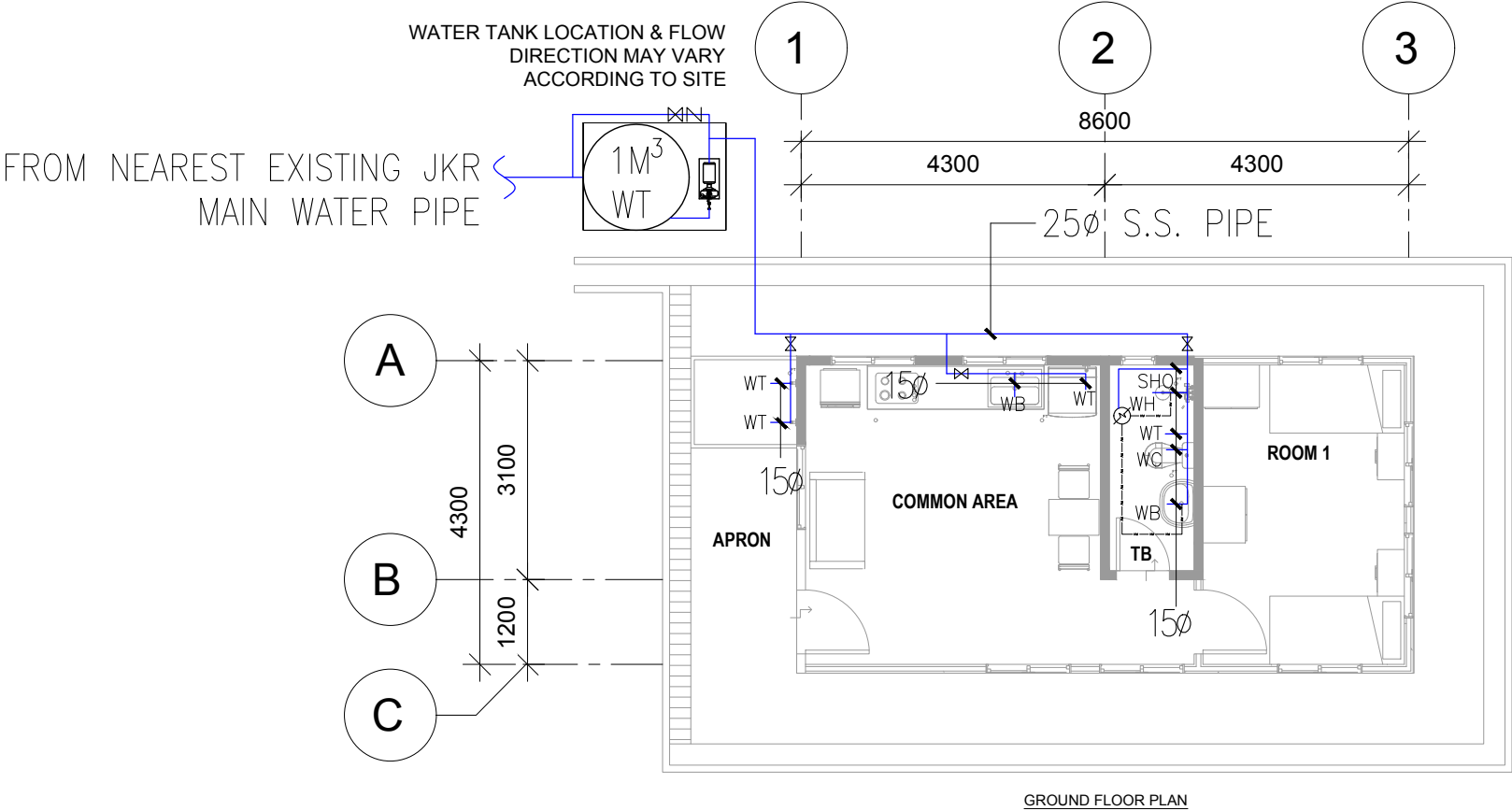
TELEPHONE SYSTEM SCHEMATIC DIAGRAM - (FOR 2 PERSONS)



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CHECKED BY:	CLT	DATE:	SEPT 2022	JOB NO:	254

DRAWING NO: JOMC/254/T/300

15 September, 2022 - 11:54 AM C:\Users\user\Desktop\MBRU\1254 - agricultural farm labour quarter\JOMC-254-2 PERSONS-P&S.dwg

LEGEND	
	Gate Valve
KS	Kitchen Sink
WC	Water Closet
WT	Water Tap
WB	Water Basin
	Cold Water
	Hot Water



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					DEPARTMENT OF AGRICULTURE AND AGRIFOOD, BRUNEI DARUSSALAM	 Contact No: 2610380	 Jurutera OMC Chartered Engineer Engineering Consultant, Design, Management & Services 2nd Floor, Unit 17 & 18, Block C, Melabau Complex, Jalan Serusop, BB2313, B. S. B. Brunei Darussalam Tel : 673-2342688 Fax : 673-2342483 Email : juruteraomc@yahoo.com	<b>PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)</b>	GROUND FLOOR PLAN PLUMBING LAYOUT (FOR 2 PERSONS)			
	GENERAL NOTES	REV	DESCRIPTION	DATE	BY				DRAWN BY: AIM	DESIGN BY: AIM	SCALE: 1/100	
									CHECKED BY: CLT	DATE: SEPT 2022	JOB NO: 254	
									DRAWING NO:	JOMC/254/W/200		

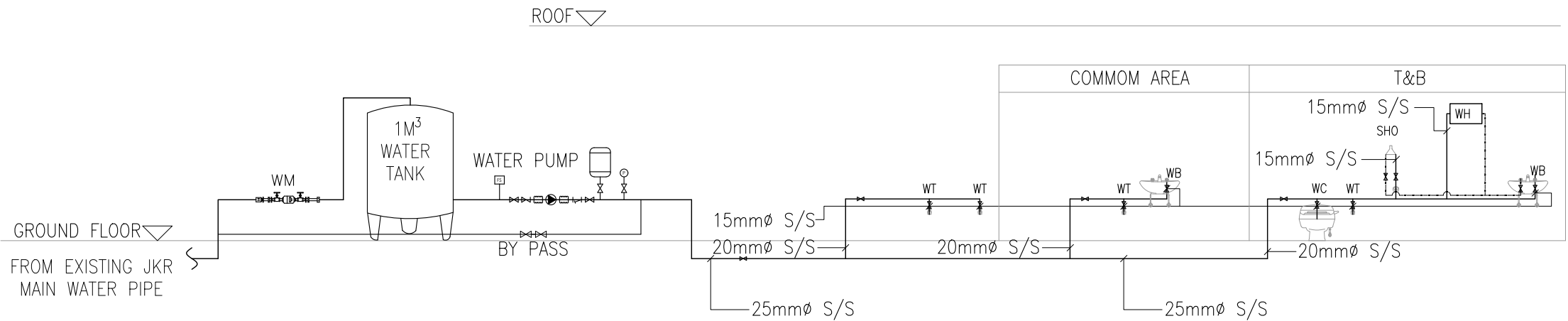
NOTES:

HOT WATER PIPEWORK

1. ALL HOT WATER PIPEWORK TO BE COPPER TO BS 2871 : 1971 M TABLE X. JOINTS COMPRESSION FITTING TO BS 864 : PART 2 : 1983 TYPE A.
2. HOT WATER PIPEWORK EMBEDDED IN WALL SHALL BE DENSO OR POLYETHYLENE WRAPPED.
3. HOT WATER PIPEWORK NOT EMBEDDED IN WALL TO BE INSULATED WITH 25MM PREFORMED FIBRE GLASS INSULATION WITH FACTORY APPLIED ALUMINIUM JACKET SEAL JOINTS WITH PRESSURE SENSITIVE TAPE.

COLD WATER PIPEWORK

1. ALL COLD WATER PIPEWORK ABOVE GROUND TO BE :  
i) BELOW 80 MM  
PIPEWORK TO BE STAINLESS STEEL TO BS 4127. JOINTS COMPRESSION & FITTINGS TO BS 864 : PART 2.
2. ALL COLD WATER PIPEWORK BURIED UNDERGROUND TO BE :  
i) 80 MM AND BELOW  
STAINLESS STEEL PIPE TO BS 4127. JOINTS COMPRESSION & FITTINGS TO BS 864 : PART 2.  
ii) 80 MM AND ABOVE  
MDPE PIPE TO BS 6920 : 1988 : PART 2. JOINTS COMPRESSION & FITTINGS TO DIN 16928 : PART 1 TO 12
3. ALL FINAL CONNECTION TO BE 15ø UNLESS OTHERWISE STATED.
4. PROVIDE A STOP COCK FOR WATER INLET TO EVERY PLUMBING & SANITARY FIXTURES.
5. ALL STOP COCKS TO BE CHROME PLATED TYPE.
6. ALL PIPES ARE IN MM.
7. WATER PIPE 65 MM AND BELOW USED FOR CONNECTION BETWEEN THE WATER MAIN TAP-OFF AND THE WATER METER SHALL BE STAINLESS STEELS PIPE TO BS4127:PART 2.



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REGISTRATION NO. BAPEGSP2022000641

PROJECT TITLE

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)

DRAWING TITLE

PLUMBING SCHEMATIC DIAGRAM (FOR 2 PERSONS)

DRAWN BY:

AIM

DESIGN BY:

AIM

SCALE:

NTS

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





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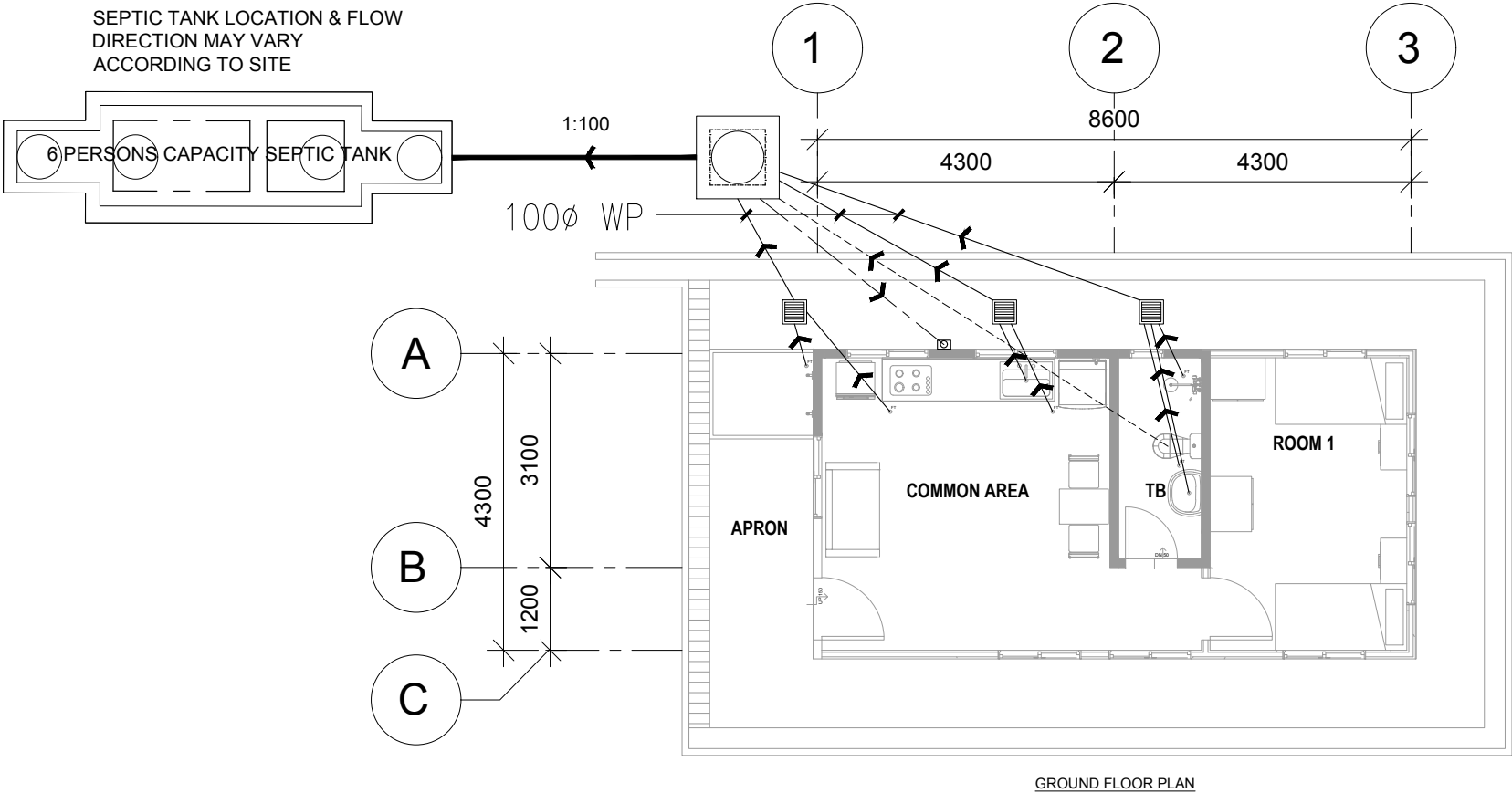
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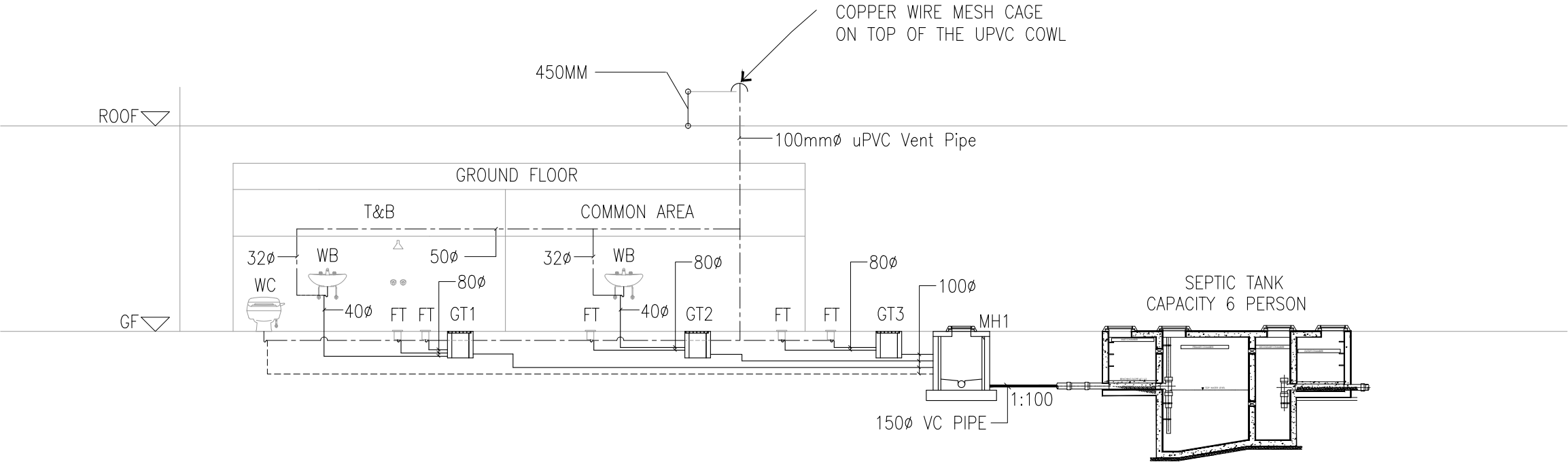
JOMC/254/W/300

LEGEND	DESCRIPTION
	150MMØ VC PIPE
	MANHOLE TYPE A
	SEPTIC TANK (CAPACITY 6 PERSONS)
	80MMØ WASTE PIPE
	100MMØ SOIL PIPE
	100MMØ VENT PIPE
	GULLY TRAP



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					DEPARTMENT OF AGRICULTURE AND AGRIFOOD, BRUNEI DARUSSALAM	 KHA Arkitek P.O Box 272 MPC, Old Airport, Seremban 703122 Contact No: 2610380	 Jurutera OMC Engineering Consultant, Design, Management & Services 2nd Floor, Unit 17 & 18, Block C, Melabau Complex, Jalan Serusop, BB2313, B. S. B. Brunei Darussalam Tel : 673-2342688 Fax : 673-2342483 Email : juruteraomc@yahoo.com  CHIN LEE TUCK REGISTRATION NO. BAPEQSP/PE20220006-M	<b>PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)</b>	GROUND FLOOR PLAN SANITARY LAYOUT (FOR 2 PERSONS)												
									<table><tr><td>DRAWN BY:</td><td>AM</td><td>DESIGN BY:</td><td>AM</td><td>SCALE:</td><td>1:100</td></tr><tr><td>CHECKED BY:</td><td>CLT</td><td>DATE:</td><td>SEPT 2022</td><td>JOB NO:</td><td>254</td></tr></table>	DRAWN BY:	AM	DESIGN BY:	AM	SCALE:	1:100	CHECKED BY:	CLT	DATE:	SEPT 2022	JOB NO:	254
	DRAWN BY:	AM	DESIGN BY:	AM	SCALE:	1:100															
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PROJECT TITLE

**PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)**

DRAWING TITLE

**SANITARY SCHEMATIC DIAGRAM (FOR 2 PERSONS)**

DRAWN BY:

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DESIGN BY:

AIM

SCALE:

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DATE:

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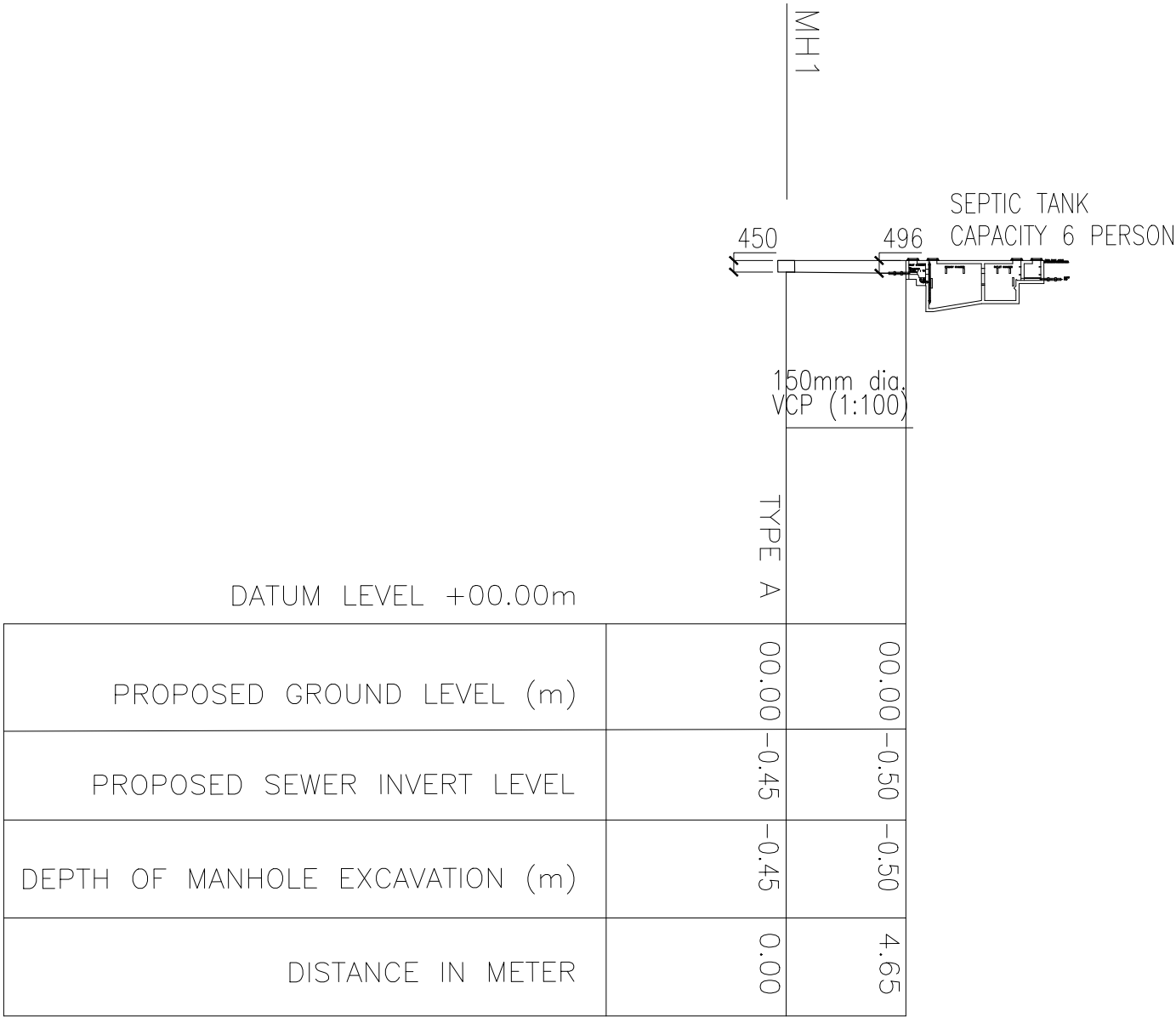
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Engineering Consultant, Design, Management & Services



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PROJECT TITLE

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 2 PERSONS)

DRAWING TITLE

SANITARY SEWER LINE INVERT LEVEL (FOR 2 PERSONS)

DRAWN BY:

AM

DESIGN BY:

AM

SCALE:

NTS

CHECKED BY:

CLT

DATE:

SEPT 2022

JOB NO:

254

DRAWING NO:

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