















A. ELECTRICAL LEGENDS.

	1x40 Watts - Fluorescent Tube rod with strip rail type housing for surface mounting.
	1x60 Watts - 1200mm Ceiling Fan
	1x60 Watts - Bulb fitting.
	1x60 Watts - Ceiling Mounted Fitting.
	1x60 Watts - Wall Mounted Luminaries/ Bracket Fitting.
	1x60 Watts - 300mm Exhaust Fan.
	6A - One Way Switch (Modular) for lighting points.
	Door Bell - 1x40W
	6A - 100 Watts Socket Outlet with switch.
	16A - 2000 Watts Socket Outlet with Switch.
	Television Socket Outlet.
	Television Distribution Box (TV-DB).
	Sub-Distribution Box & "X" for SDB number.
	Main Distribution Board.

B. TECHNICAL SPECIFICATION FOR ELECTRICAL WORKS.

- ALL LIGHT POINT WIRING SHALL BE WITH 1.5 SQ. MM. PVC INSULATED FIRE RESISTANT COPPER CONDUCTOR 1.1kV GRADE IN RECESSED HDPE PIPE.
- ALL LIGHT CIRCUIT WIRING SHALL BE WITH 2.5 SQ. MM. PVC INSULATED FIRE RESISTANT COPPER CONDUCTOR 1.1kV GRADE IN RECESSED HDPE PIPE.
- ALL POWER POINT WIRING SHALL BE WITH 4 SQ. MM. PVC INSULATED FIRE RESISTANT COPPER CONDUCTOR 1.1kV GRADE IN RECESSED HDPE PIPE.
- ALL THE LIGHT SWITCH BOARDS SHALL BE INSTALLED AT 23CM AWAY FROM DOOR FRAME/EDGE OF WALL AND 1.5M ABOVE THE FINISHED FLOOR LEVEL.
- ALL POWER SOCKETS SHALL BE INSTALLED AT 30CM HEIGHT FROM FINISHED FLOOR LEVEL AND IN TOILETS AND PANTRY AT 1.5M.
- BRIDGE METHOD SHOULD BE FOLLOWED AT THE CROSSING.
- ALL THE CONDUIT ACCESSORIES MUST BE THREADED TYPE ONLY.
- THE CONDUIT LAYOUT IN THIS DRAWINGS INDICATES 25MM/40MM DIA. HDPE CONDUIT AS PER THE REQUIREMENT.
- NO PHASE DIFFERENCE IS ALLOWED TO BE DRAWN THROUGH THE SAME CONDUIT.
- THE POWER CIRCUITS SHALL NOT BE LOOPED IN ANY CASE. THE DIRECT CIRCUIT WIRES TO EVERY POWER SOCKETS MUST BE LAID FROM SDB WITH INDIVIDUAL 16A SP MCB FOR EVERY POWER SOCKETS.
- ALL WALL FIXTURES SHALL BE AT 2.75 M FROM FINISHED FLOOR LEVEL.
- ALL SUBDISTRIBUTION (SDB) FOR EVERY UNITS SHALL BE IN RECESSED AT CORRIDOR WALLS AT AN ACCESSIBLE HEIGHT FROM FINISHED FLOOR LEVEL.
- MDB (MAIN DISTRIBUTION BOARD) SHALL BE MOUNTED AT THE GROUND FLOOR.
- ALL ELECTRICAL WIRES/CONDUCTORS AND POWER CABLES MUST BE PROVIDED WITH A PROPER COLOR CODING CONFIRMING TO INTERNATIONAL CODING STANDARDS. THE COLOR CODING SHALL BE RED FOR R-PHASE, YELLOW FOR Y-PHASE, BLUE FOR B-PHASE, BLACK FOR NEURAL AND GREEN FOR EARTHING OR GROUND WIRES.
- THE PROTECTION EARTHING ( SWITCHGEAR & BUILDING PROTECTION AGAINST LIGHTNING) MUST BE PROVIDED AND INSTALLED AS PER EARTHING DRAWING PROVIDED.
- THE EARTH CONTINUITY MUST BE PROVIDED THROUGHOUT THE LENGTH OF WIRING. ALL METALLIC PARTS, SWITCH BOARDS, LIGHTING FITTINGS & POWER POCKETS MUST BE CONNECTED TO THE EARTH WIRES AND CONNECTIONS SHOULD BE ELECTRICALLY & MECHANICALLY SOUND. THE SIZE OF THE EARTH CONTINUITY WIRES SHALL NOT BE LESS THAN 1.5SQ.MM (GREEN COLOUR) COPPER WIRE FOR LIGHTING CIRCUITS AND 2.5SQ.MM (GREEN COLOUR) COPPER WIRES FOR POWER CIRCUITS RESPECTIVELY.
- SOME ASSUMPTION AND LOADS ARE AS FOLLOWS FOR MAIN DISTRIBUTION BOARD.

(i) TOTAL CONNECTED LOADS : 165,760 WATTS

(ii) POWER FACTOR : 0.85


(iii) VOLTAGE : 415 V

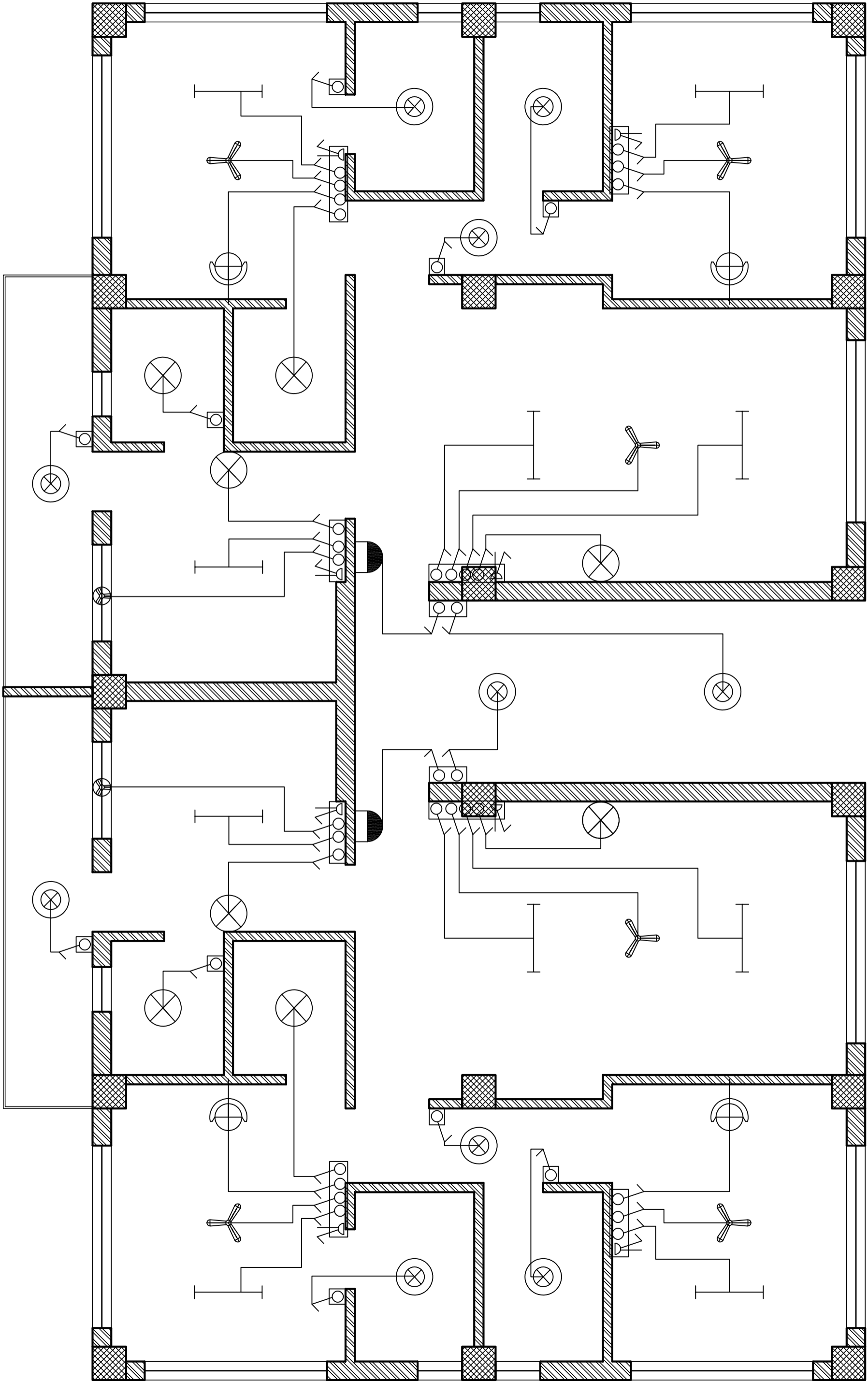
(iv) CURRENT DRAWN AS PER THE TOTAL CONNECTED LOAD : 271.30A

(v) CURRENT DRAWN AS PER THE 60% LOAD DEMAND : 162.78A

C. SPECIFICATION FOR TV WORKS

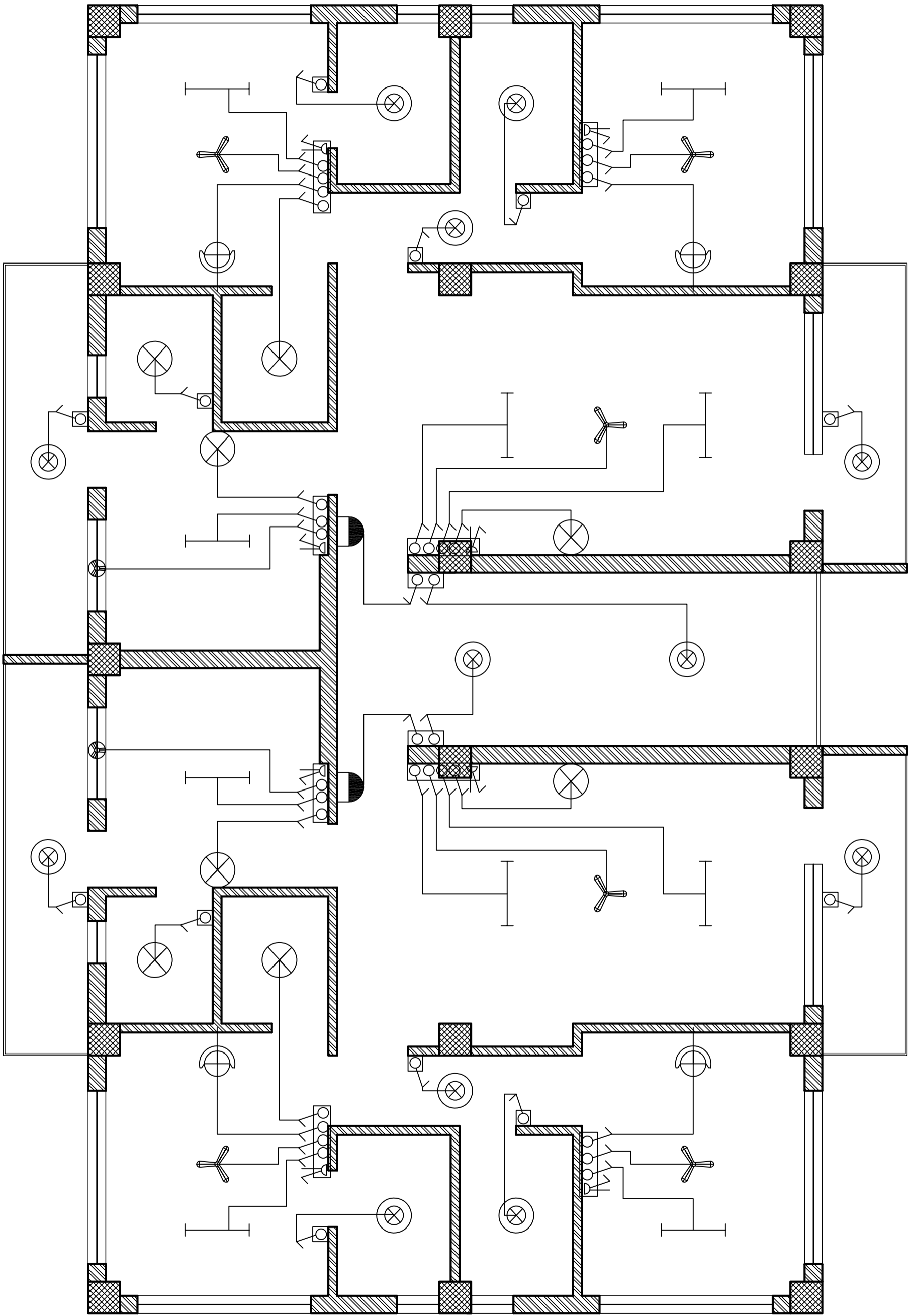
- TV CABLE DUCTS SHALL BE WITH 25MM DIA. HDPE CONDUIT.
- TELEVISION CABLE DUCT MUST BE SEPARATED BY 0.5M AWAY FROM ELECTRICAL ROUTE.
- TELEVISION SOCKET OUTLET SHALL BE AT 25CM ABOVE FINISHED FLOOR LEVEL.
- BRIDGE METHOD SHOULD BE FOLLOWED AT THE CROSSING.
- TV-DB (TELEVISION - DISTRIBUTION BOARD) SHALL BE MOUNTED AT THE GROUND FLOOR.

<div><div><b>BPC</b> Bhutan Power Corporation Limited</div></div>		<b>BHUTAN POWER CORPORATION LIMITED</b>			
TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.					
PROJECT TITLE		REFERENCE NOTES			
DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TIRONGSA		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED.			
DRAWING STATUS		2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED.			
APPROVAL <input type="checkbox"/>	APPROVED <input type="checkbox"/>	1. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.		KUNZANG TOBGYE GENERAL MANAGER TD, BPC.	
		SANGAY WANGDI ENGINEER, TD, BPC.		DESIGNED BY	
		SCALE		DATE	
		REF DWG		FEBRUARY, 2022.	
				DRAWING NO.	
				BPC/TD/TM/ELECTRICAL	
DWG # 1/25					




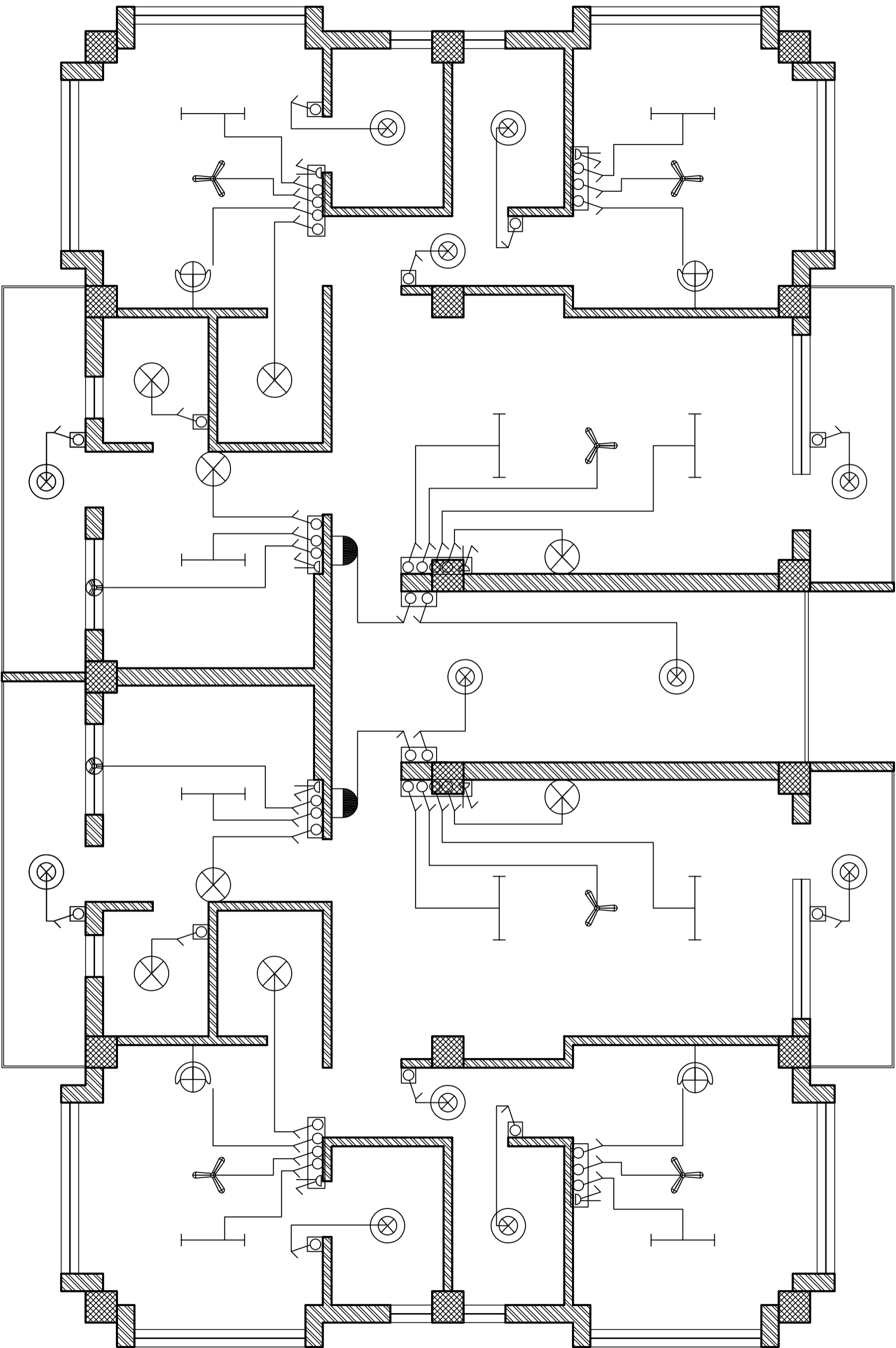
# GROUND FLOOR PLAN - FITTING AND FIXTURE WIRING LAYOUT

<div><div><div></div><div>BPC</div></div><div>འབྲུག་གི་འོ་ཤར་གྲྭ་ལེགས་པར་བྱེད་པའི་ཁྲུང་ཁྲིའི་སྒོམ་སྒྲིལ་ལྷན་ཁག་</div></div>		<div>BHUTAN POWER CORPORATION LIMITED</div> <div>TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.</div>		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
		DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TRONGSA		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED.				KUNZANG TOBGYE GENERAL MANAGER TD, BPC.				REFER DRAWING		BPC/TD/TMD/ELECTRICAL	
DRAWING STATUS		APPROVAL <input type="checkbox"/>		APPROVED <input type="checkbox"/>		2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED.				SANGAY WANGDI ENGINEER, TD, BPC		SCALE		DATE	
				3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.						REF DWG		FEBRUARY, 2022.		DWG # 2/25	




# FIRST FLOOR PLAN - FITTING AND FIXTURE WIRING LAYOUT

		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
BHUTAN POWER CORPORATION LIMITED		DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TROMGSA		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED. 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED. 3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.		KUNZANG TOBGYE GENERAL MANAGER TD, BPC.		SANGAY WANGDI ENGINEER, TD, BPC		REFER DRAWING		BPC/TD/TMD/ELECTRICAL	
TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.		DRAWING STATUS				SCALE		DATE		REF DWG		FEBRUARY, 2022.	
		APPROVAL		APPROVED								DWG # 3/25	



# SECOND FLOOR PLAN - FITTING AND FIXTURE WIRING LAYOUT

		<b>BHUTAN POWER CORPORATION LIMITED</b>		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.		DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TROMGSA		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED. 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED. 3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.		KUNZANG TOBGYE GENERAL MANAGER TD, BPC.		SANGAY WANGDI ENGINEER, TD, BPC		SCALE		REFER DRAWING		BPC/TD/TMD/ELECTRICAL	
DRAWING STATUS		APPROVAL <input type="checkbox"/>		APPROVED <input type="checkbox"/>						DATE		FEBRUARY, 2022.		DWG # 4/25	



**BHUTAN POWER CORPORATION LIMITED**

TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.

PROJECT TITLE

## DESIGN OF STAFF QUARTER (G+2) AT

**YURMOO, TRONGSA**

DRAWING STATUS

APPROV

**APPROVED**

## REFERENCE NOTES

1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED.

2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED.

3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.

APPROVED BY

**KUNZANG TOBGYE**  
GENERAL MANAGER

DESIGNED BY

SANGAY WANGDI  
ENGINEER, TD, BPC

# TITLE

## REFER DRAWING

SCALE

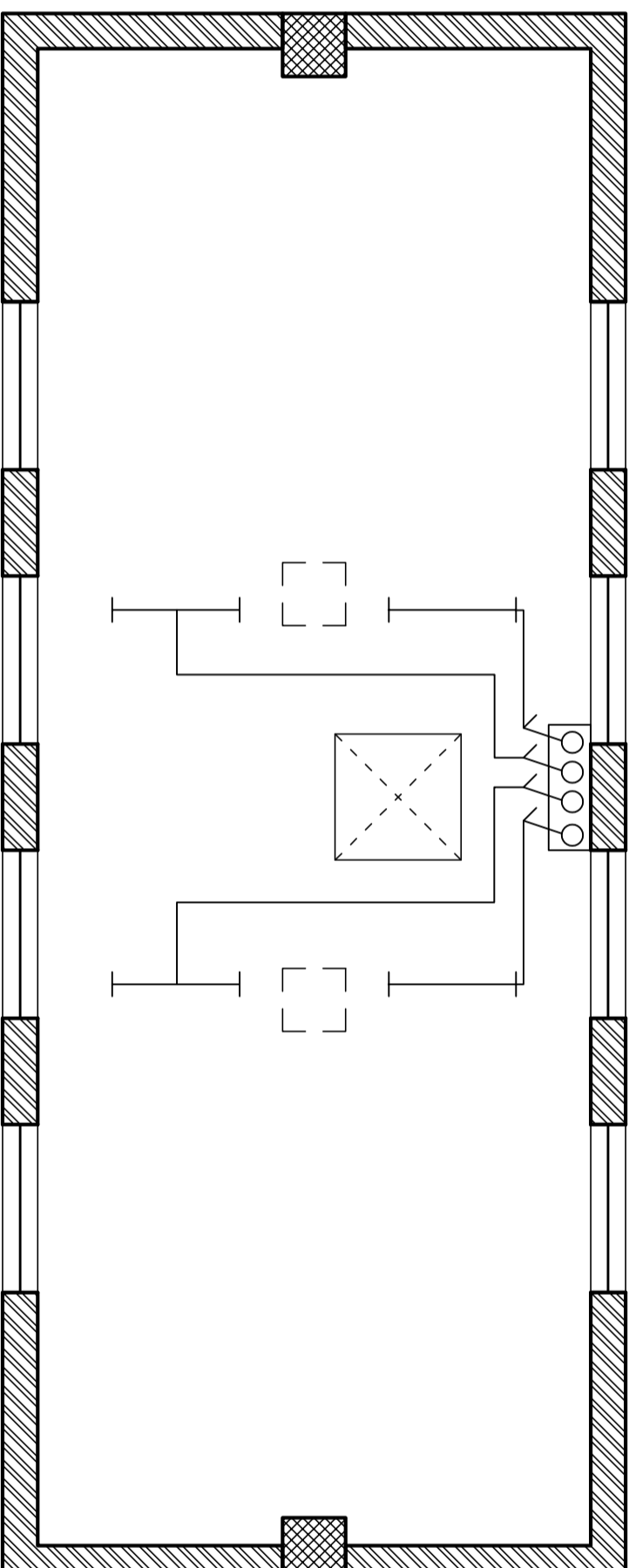
DATE \_\_\_\_\_

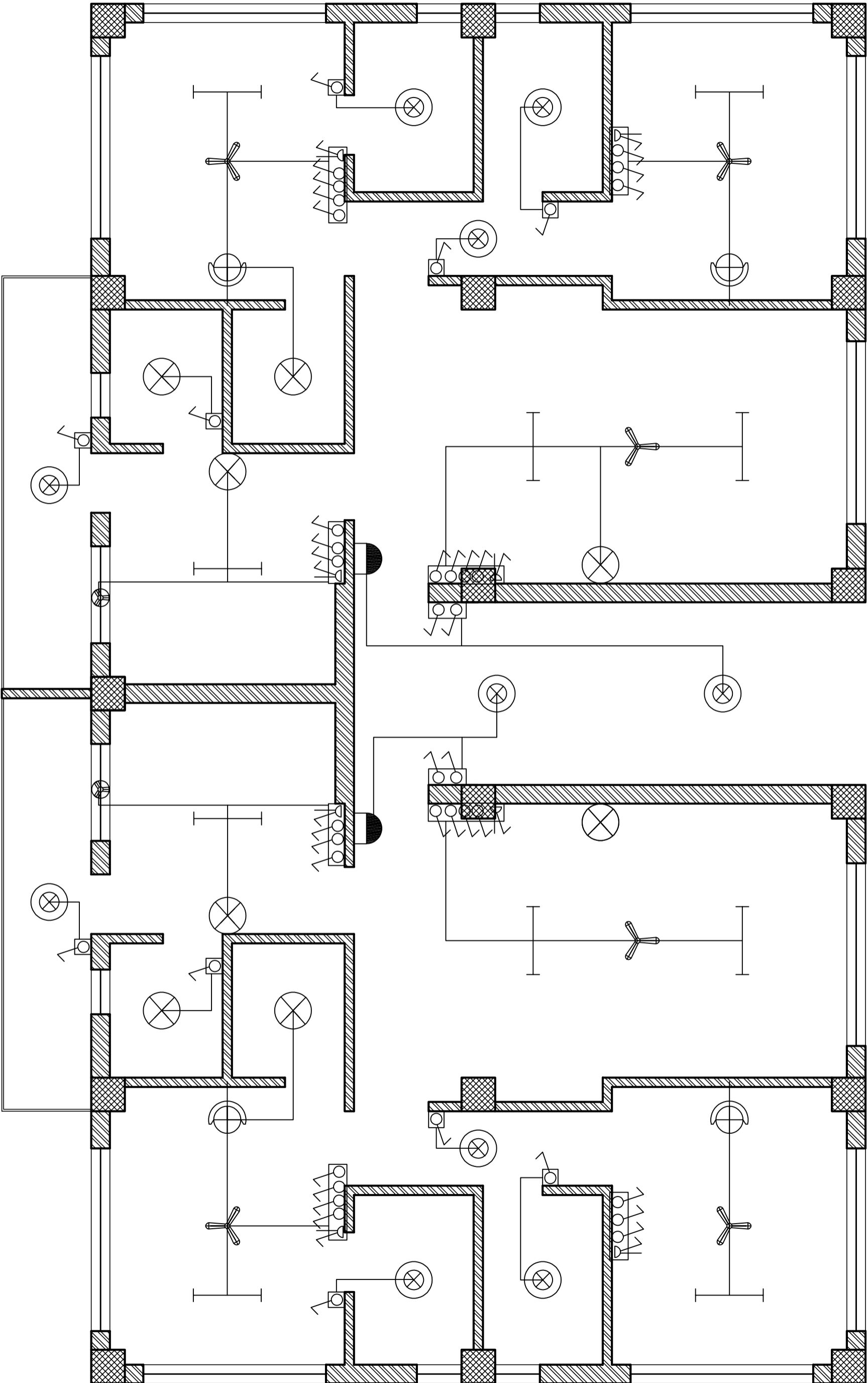
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DRAWING NO.


BPC/TD/TMD/ELECTRICAL

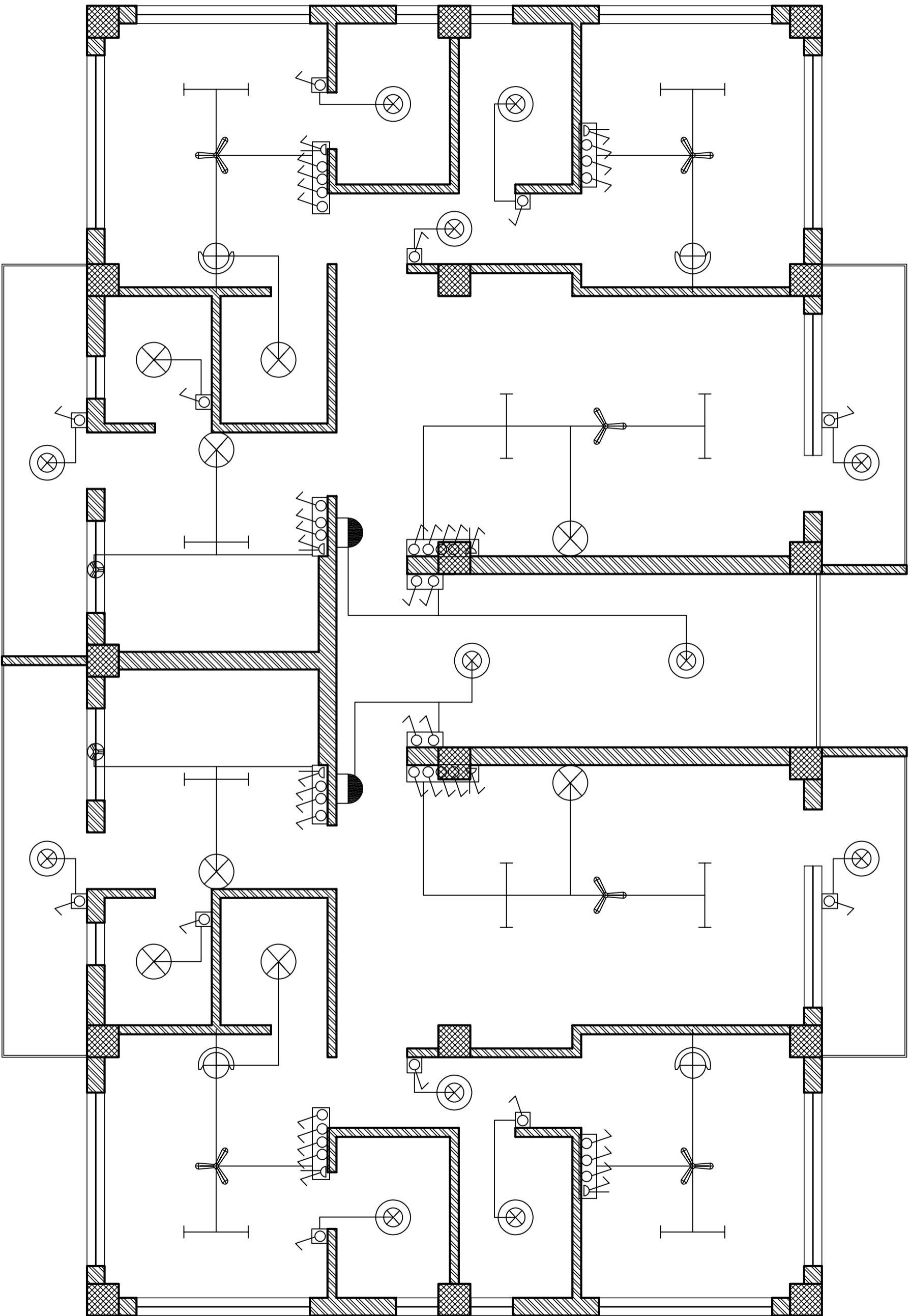
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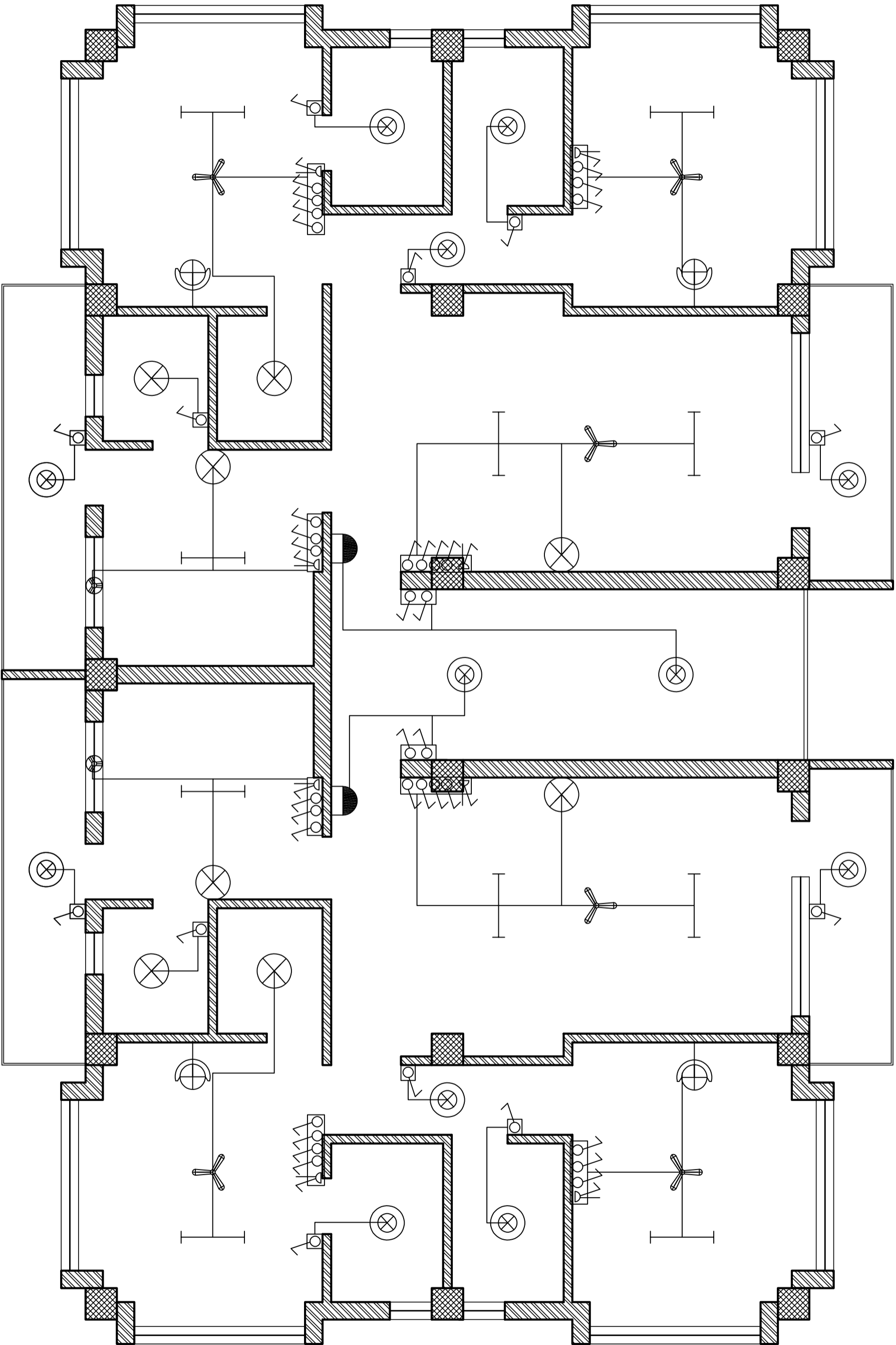
# GROUND FLOOR PLAN - FITTING AND FIXTURE CONDUIT LAYOUT

		<b>BHUTAN POWER CORPORATION LIMITED</b>		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.		<b>DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TRONGSA</b>		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED.		2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED.		KUNZANG TOBGYE GENERAL MANAGER TD, BPC.		SANGAY WANGDI ENGINEER, TD, BPC		REFER DRAWING		BPC/TD/TMD/ELECTRICAL	
DRAWING STATUS		APPROVAL <input type="checkbox"/>		APPROVED <input type="checkbox"/>		3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.				SCALE		DATE		DWG # 6/25	
										REF DWG		FEBRUARY, 2022.			





# FIRST FLOOR PLAN - FITTING AND FIXTURE CONDUIT LAYOUT

		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
BHUTAN POWER CORPORATION LIMITED		DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TROMGSA		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED. 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED. 3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.		KUNZANG TOBGYE GENERAL MANAGER TD, BPC.		SANGAY WANGDI ENGINEER, TD, BPC		REFER DRAWING		BPC/TD/TMD/ELECTRICAL	
TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.		DRAWING STATUS				APPROVAL		APPROVED		SCALE		DATE	
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												DWG # 7/25	

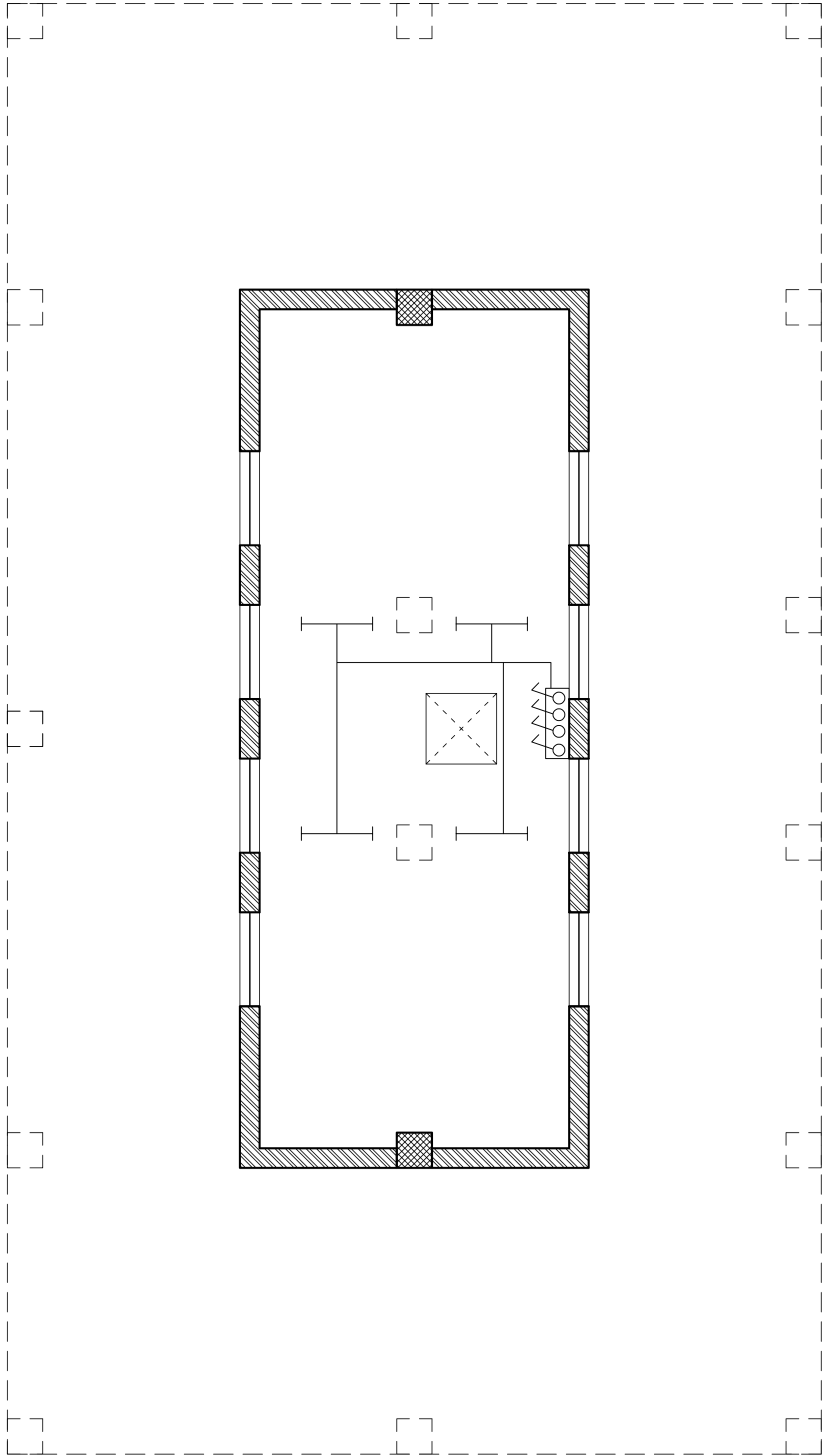


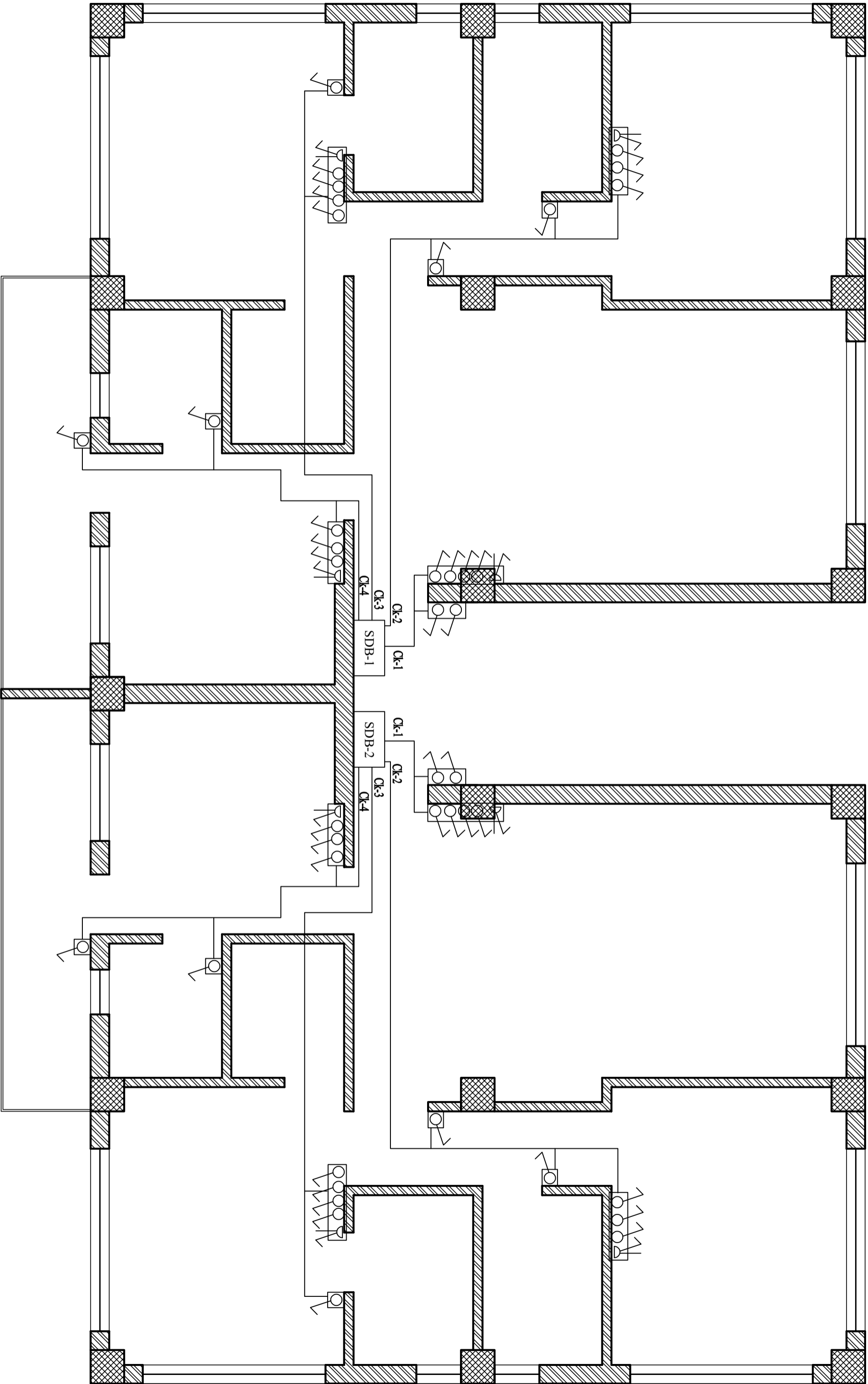
# SECOND FLOOR PLAN - FITTING AND FIXTURE CONDUIT LAYOUT

		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
BHUTAN POWER CORPORATION LIMITED		DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TROMGSA		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED. 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED. 3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.		KUNZANG TOBGYE GENERAL MANAGER TD, BPC.		SANGAY WANGDI ENGINEER, TD, BPC		REFER DRAWING		BPC/TD/TMD/ELECTRICAL	
TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.		DRAWING STATUS		SCALE		DATE		REF DWG		FEBRUARY, 2022.		DWG # 8/25	
		APPROVAL		APPROVED									


	<b>BHUTAN POWER CORPORATION LIMITED</b> TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.										
PROJECT TITLE		REFERENCE NOTES			APPROVED BY	DESIGNED BY	DRAWING TITLE		DRAWING NO.		
DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TROMGSA		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED. 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED. 3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.			KUNZANG TOBGYE GENERAL MANAGER TD, BPC.	SANGAY WANGDI ENGINEER, TD, BPC	REFER DRAWING	SCALE	DATE	BPC/TD/TMD/ELECTRICAL	
DRAWING STATUS		APPROVAL		APPROVED		REF DWG		FEBRUARY, 2022.			DWG # 9/25

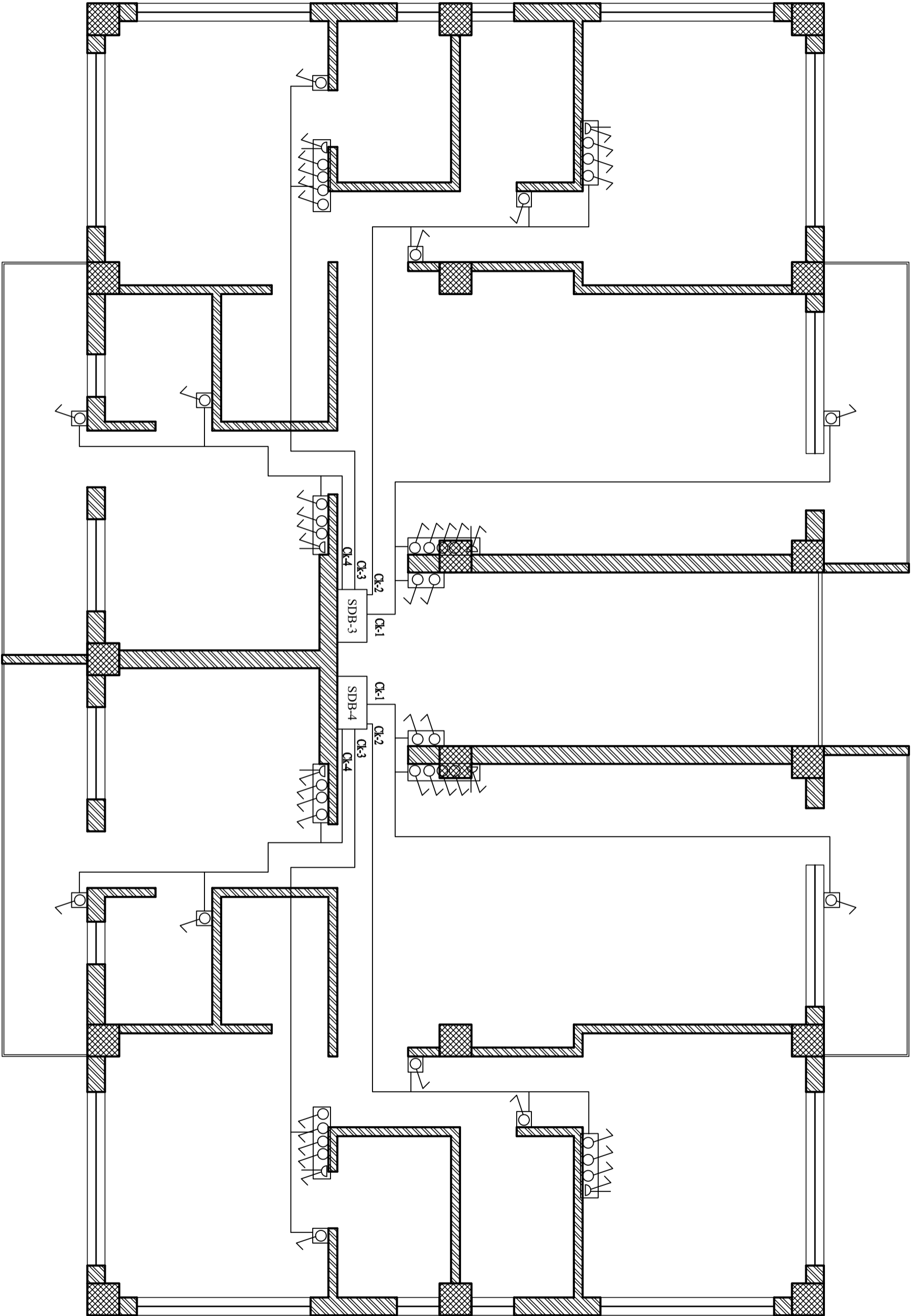
# JAMTHOG PLAN - FITTING AND FIXTURE CONDUIT LAYOUT





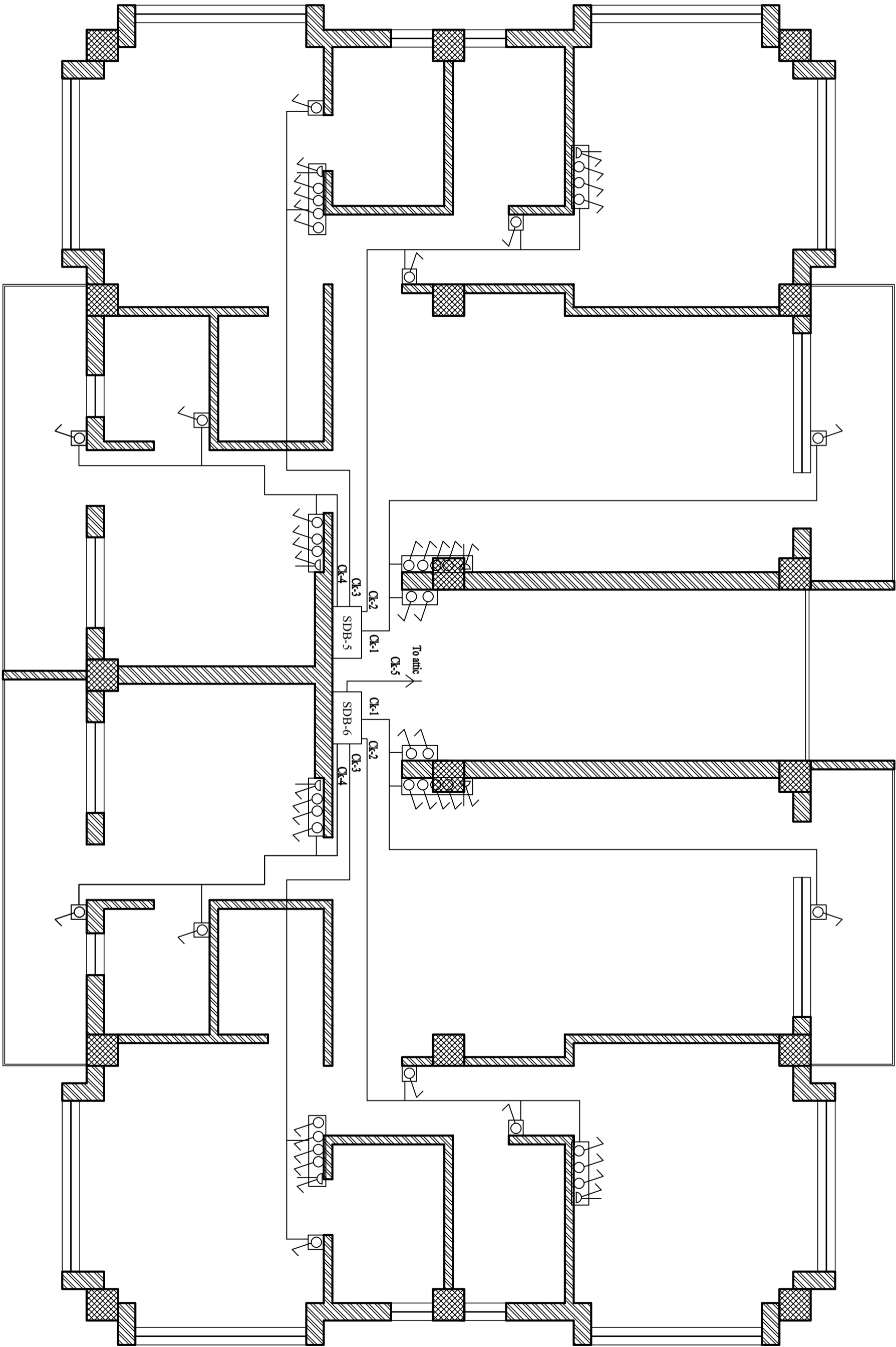
# GROUND FLOOR PLAN - LIGHTING CIRCUIT CONDUIT LAYOUT

<div><div><div>འབྲུག་རྒྱལ་ཁབ་</div><div>ཤར་བཀོད་ལྷན་ཁག་</div><div>BPC</div><div>Build Better Power</div></div></div>		<div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>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FIRST FLOOR PLAN - LIGHTING CIRCUIT CONDUIT LAYOUT

<div><div><div><div></div><div>BPC</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལུགས་ཀྱི་འཕུལ་ཁུངས་</div></div><div><div></div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལུགས་ཀྱི་འཕུལ་ཁུངས་</div><div>BPC</div></div></div></div>		<div><div><div><div></div><div>BHUTAN POWER CORPORATION LIMITED</div></div><div><div>TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.</div></div></div></div>	
<div><div>PROJECT TITLE</div><div>DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TRONGSA</div></div>		<div><div>REFERENCE NOTES</div><div>1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED. 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED. 3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.</div></div>	
<div><div>APPROVED BY</div><div>KUNZANG TOBGYE GENERAL MANAGER TD, BPC.</div></div>		<div><div>DESIGNED BY</div><div>SANGAY WANGDI ENGINEER, TD, BPC.</div></div>	
<div><div>DRAWING TITLE</div><div>REFER DRAWING</div></div>		<div><div>DRAWING NO.</div><div>BPC/TD/TMD/ELECTRICAL</div></div>	
<div><div>SCALE</div><div>REF DWG</div></div>		<div><div>DATE</div><div>FEBRUARY, 2022.</div></div>	
<div><div>DWG # 11/25</div></div>			



# SECOND FLOOR PLAN - LIGHTING CIRCUIT CONDUIT LAYOUT

	BHUTAN POWER CORPORATION LIMITED		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
	TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.		DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TROMGSA		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED. 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED. 3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.		KUNZANG TOBGYE GENERAL MANAGER TD, BPC.		SANGAY WANGDI ENGINEER, TD, BPC		REFER DRAWING		BPC/TD/TMD/ELECTRICAL	
	DRAWING STATUS		APPROVAL		APPROVED				SCALE		DATE		DWG # 12/25	
									REF DWG		FEBRUARY, 2022.			



**BHUTAN POWER CORPORATION LIMITED**

TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.

PROJECT TITLE

## DESIGN OF STAFF QUARTER (G+2) AT

**YURMOO, TRONGSA**

## DRAWING STATUS

**APPROVAL:**

APPROVED ☐

## REFERENCE NOTES

1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED.

2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED

3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DESIGNER.

APPROVED BY

**KUNZANG TOBGYE**  
GENERAL MANAGER

DESIGNED BY

SANGAY WANGDI  
ENGINEER, TD, BPC

DRAWING TITLE

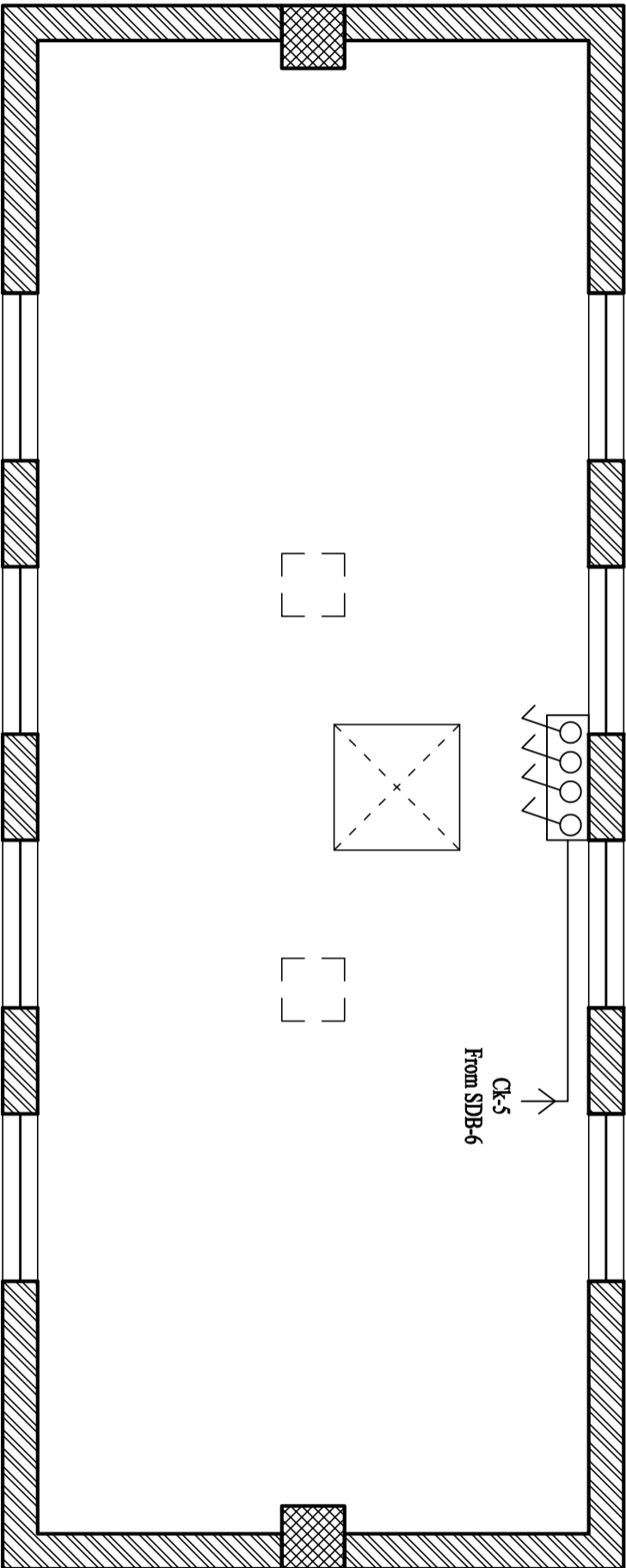
## REFER DRAWING

DATE \_\_\_\_\_

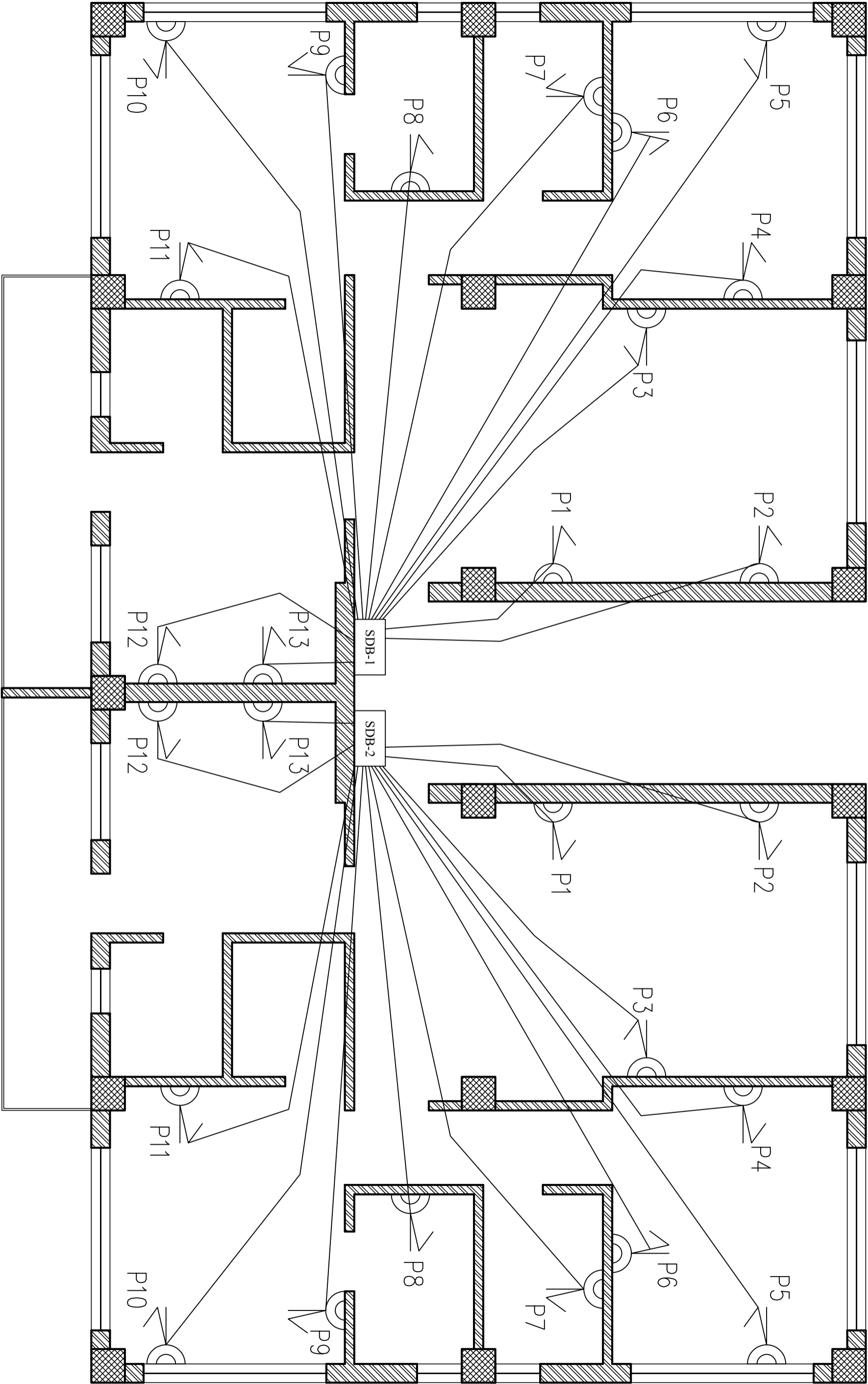
FEBRUARY, 2022

DRAWING NO


BPC/TD/TMD/ELECTRICAL

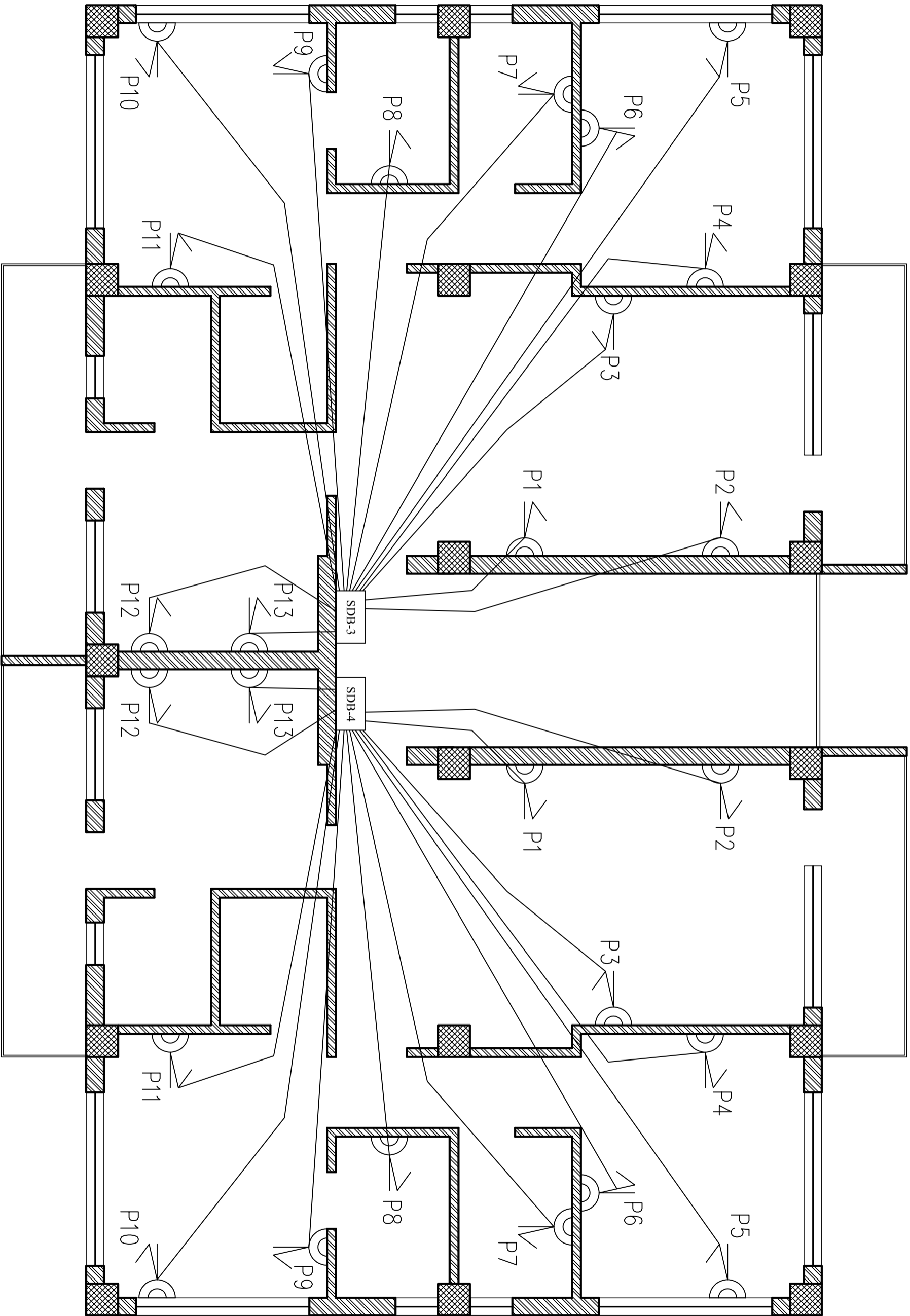


# JAMTHOG PLAN - LIGHTING CIRCUIT CONDUIT LAYOUT




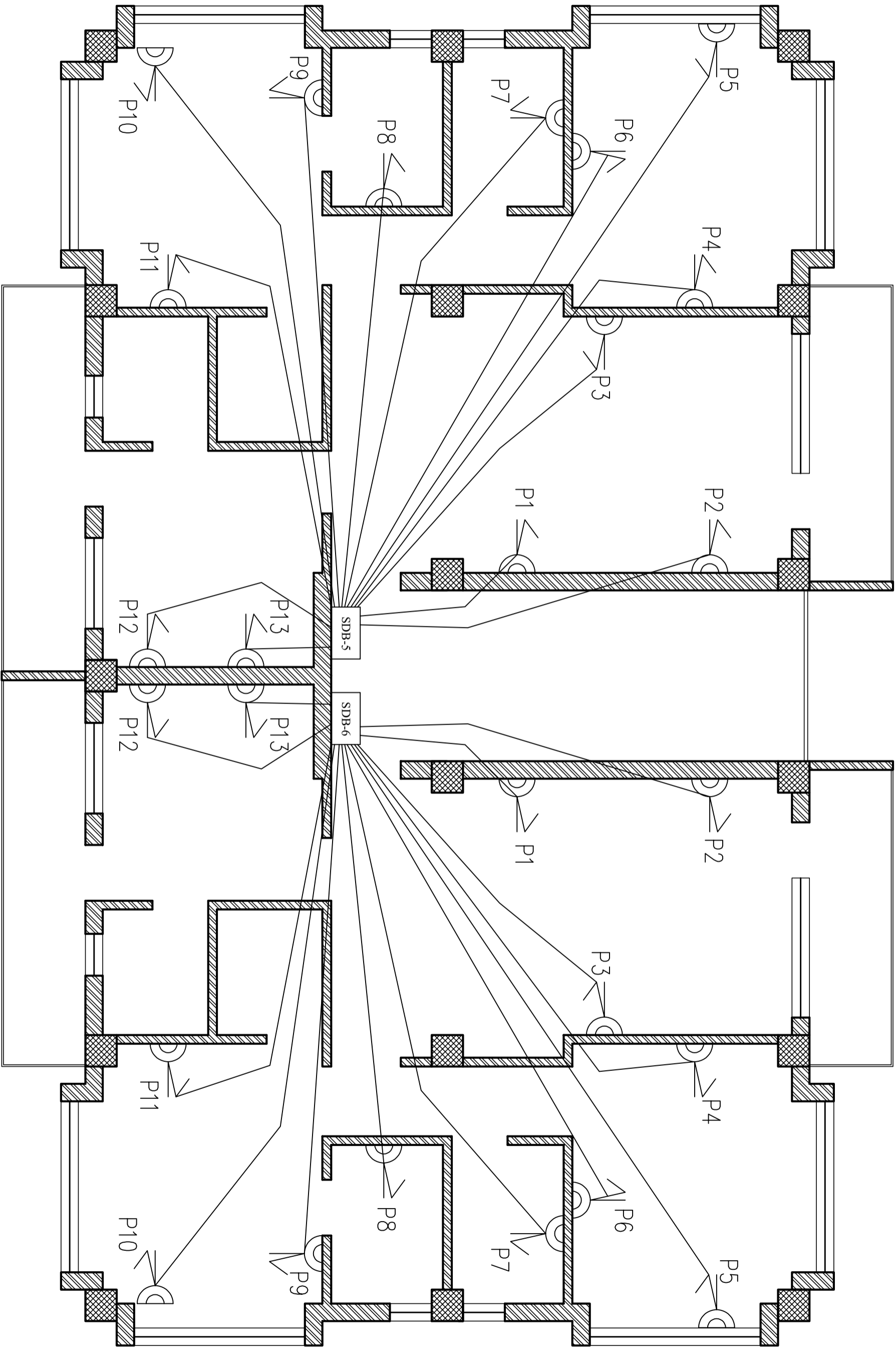
# GROUND FLOOR PLAN - POWER POINT WIRING LAYOUT

	<b>BHUTAN POWER CORPORATION LIMITED</b>		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.		
	TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.		DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TROMGSA		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED. 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED. 3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.		KUNZANG TOBGYE GENERAL MANAGER TD, BPC.		SANGAY WANGDI ENGINEER, TD, BPC.		SCALE		REFER DRAWING		BPC/TD/TMD/ELECTRICAL
		DRAWING STATUS		APPROVAL		APPROVED						DATE		DWG # 14/25	
												FEBRUARY, 2022.			




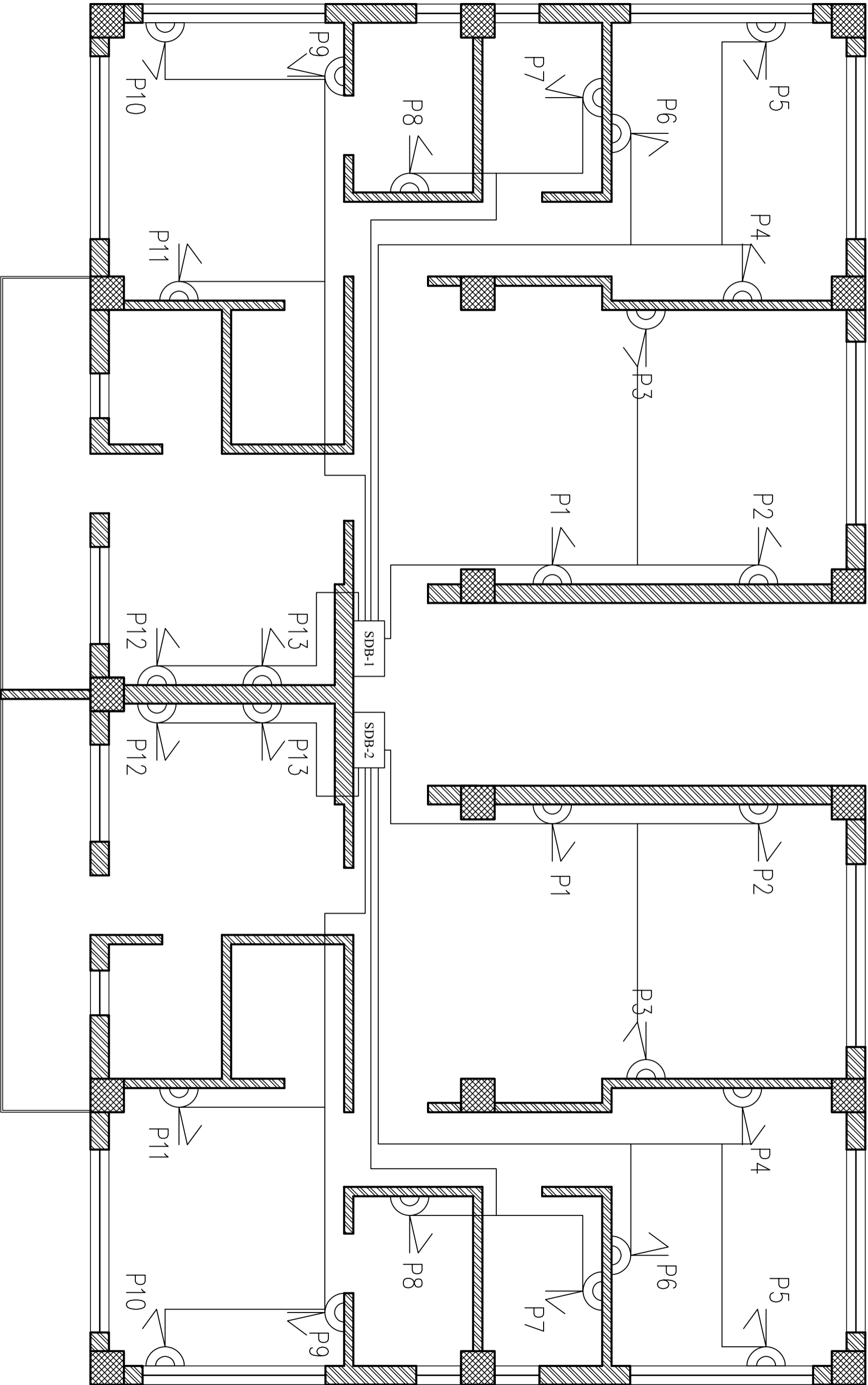
# FIRST FLOOR PLAN - POWER POINT WIRING LAYOUT

		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
BHUTAN POWER CORPORATION LIMITED		DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TROMGSA		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED. 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED. 3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.		KUNZANG TOBGYE GENERAL MANAGER TD, BPC.		SANGAY WANGDI ENGINEER, TD, BPC.		REFER DRAWING		BPC/TD/TMD/ELECTRICAL	
TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.		DRAWING STATUS								SCALE		DATE	
		<input type="checkbox"/> APPROVAL		<input type="checkbox"/> APPROVED						REF DWG		FEBRUARY, 2022.	
												DWG # 15/25	




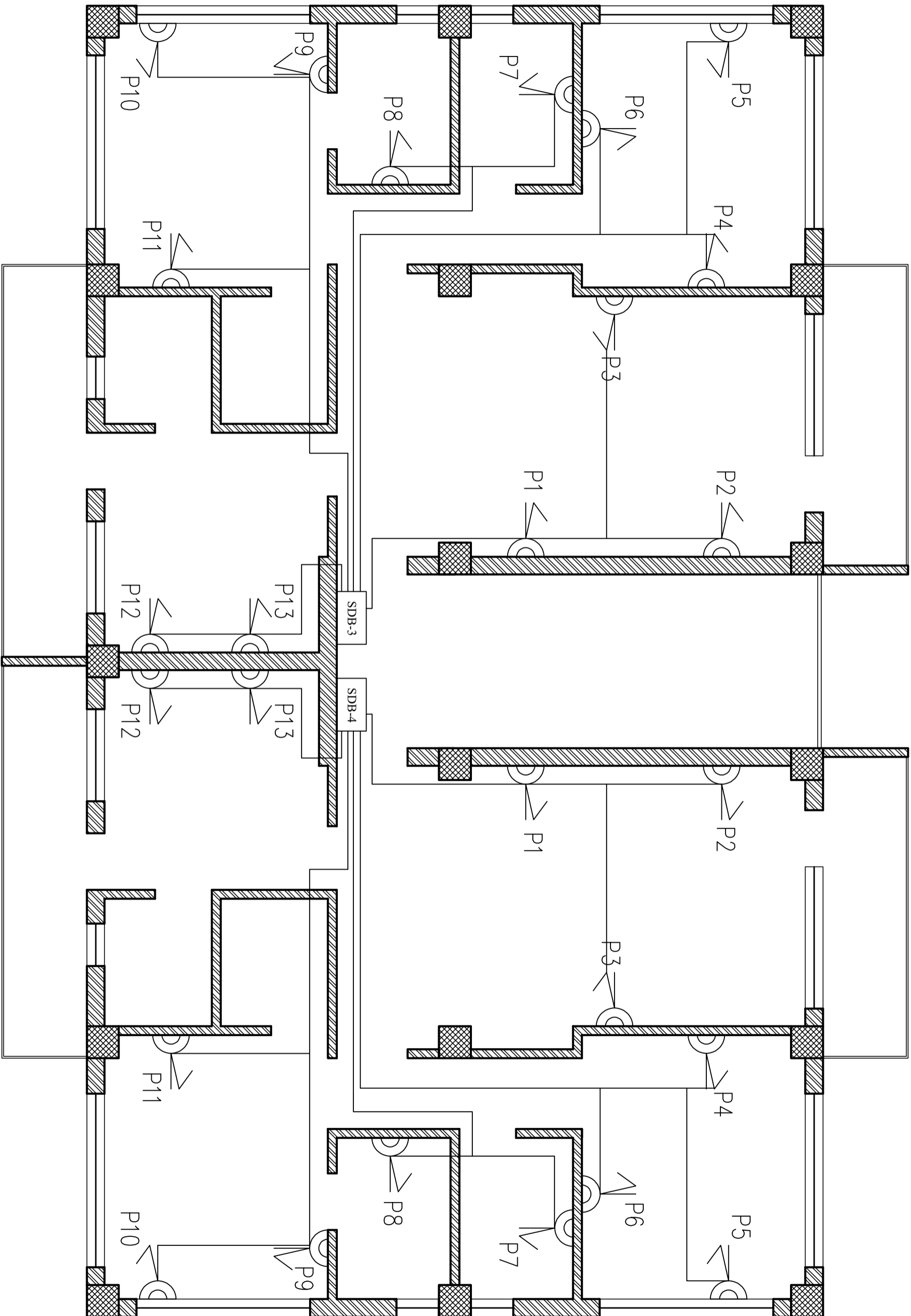
# SECOND FLOOR PLAN - POWER POINT WIRING LAYOUT

<div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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# GROUND FLOOR PLAN - POWER POINT CONDUIT LAYOUT

	<b>BHUTAN POWER CORPORATION LIMITED</b>		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
	TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.		DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TRONGSA		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED. 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED. 3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.		KUNZANG TOBGYE GENERAL MANAGER TD, BPC.		SANGAY WANGDI ENGINEER, TD, BPC.		REFER DRAWING		BPC/TD/TMD/ELECTRICAL	
	DRAWING STATUS		APPROVAL		APPROVED				SCALE		DATE		DWG # 17/25	
									REF DWG		FEBRUARY, 2022.			



# FIRST FLOOR PLAN - POWER POINT CONDUIT LAYOUT

	BHUTAN POWER CORPORATION LIMITED		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
	TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.		DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TROMGSA		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED. 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED. 3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.		KUNZANG TOBGYE GENERAL MANAGER TD, BPC.		SANGAY WANGDI ENGINEER, TD, BPC.		REFER DRAWING		BPC/TD/TMD/ELECTRICAL	
	DRAWING STATUS		APPROVAL		APPROVED				SCALE		DATE		DWG # 18/25	
									REF DWG		FEBRUARY, 2022.			



**BHUTAN POWER CORPORATION LIMITED**

TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.

PROJECT TITLE

## DESIGN OF STAFF QUARTER (G+2) AT

**YURMOO, TRONGSA**

DRAWING STATUS

APPROVED

**APPROVED**

## REFERENCE NOTES

1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED.

2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED.

3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.

APPROVED BY

**KUNZANG TOBYE**  
GENERAL MANAGER

DESIGNED BY

SANGAY WANGDI  
ENGINEER, TD, BPC

DRAFTING TITLE

## REFER DRAWING

DATE

WG

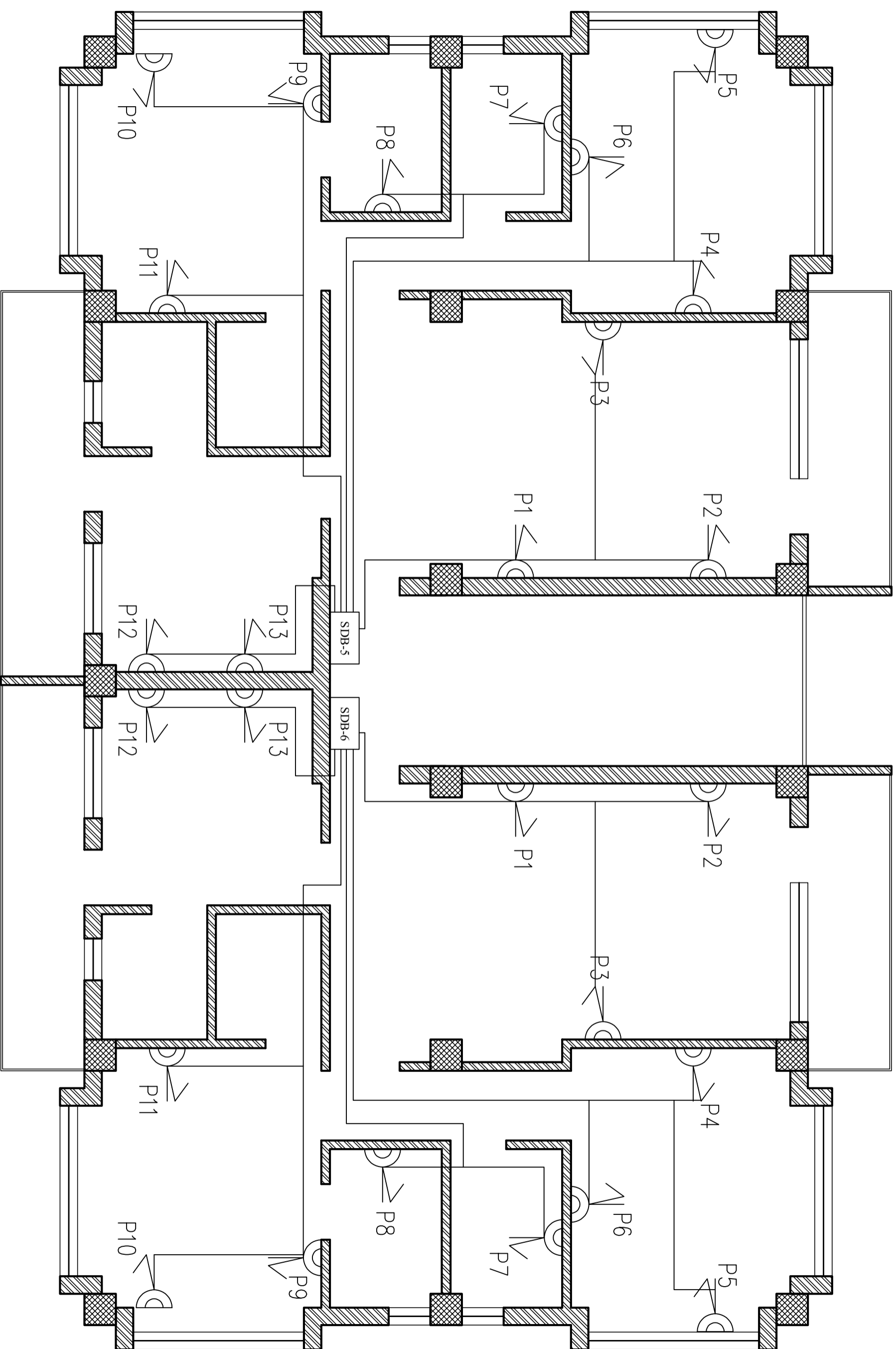
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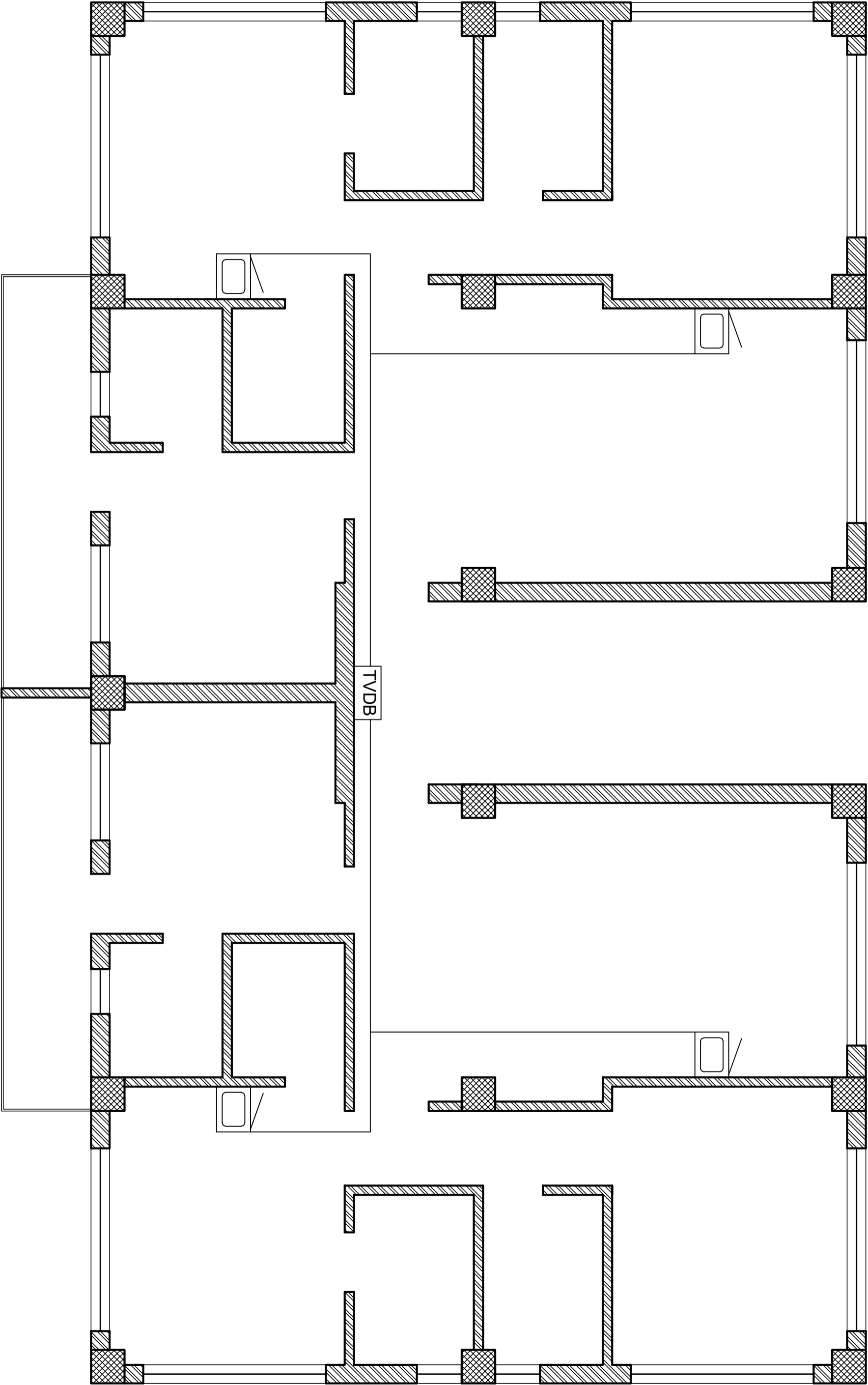
D R A W I N G N O.

BPC/TD/TMD/ELECTRICAL


**DWG # 19/25**

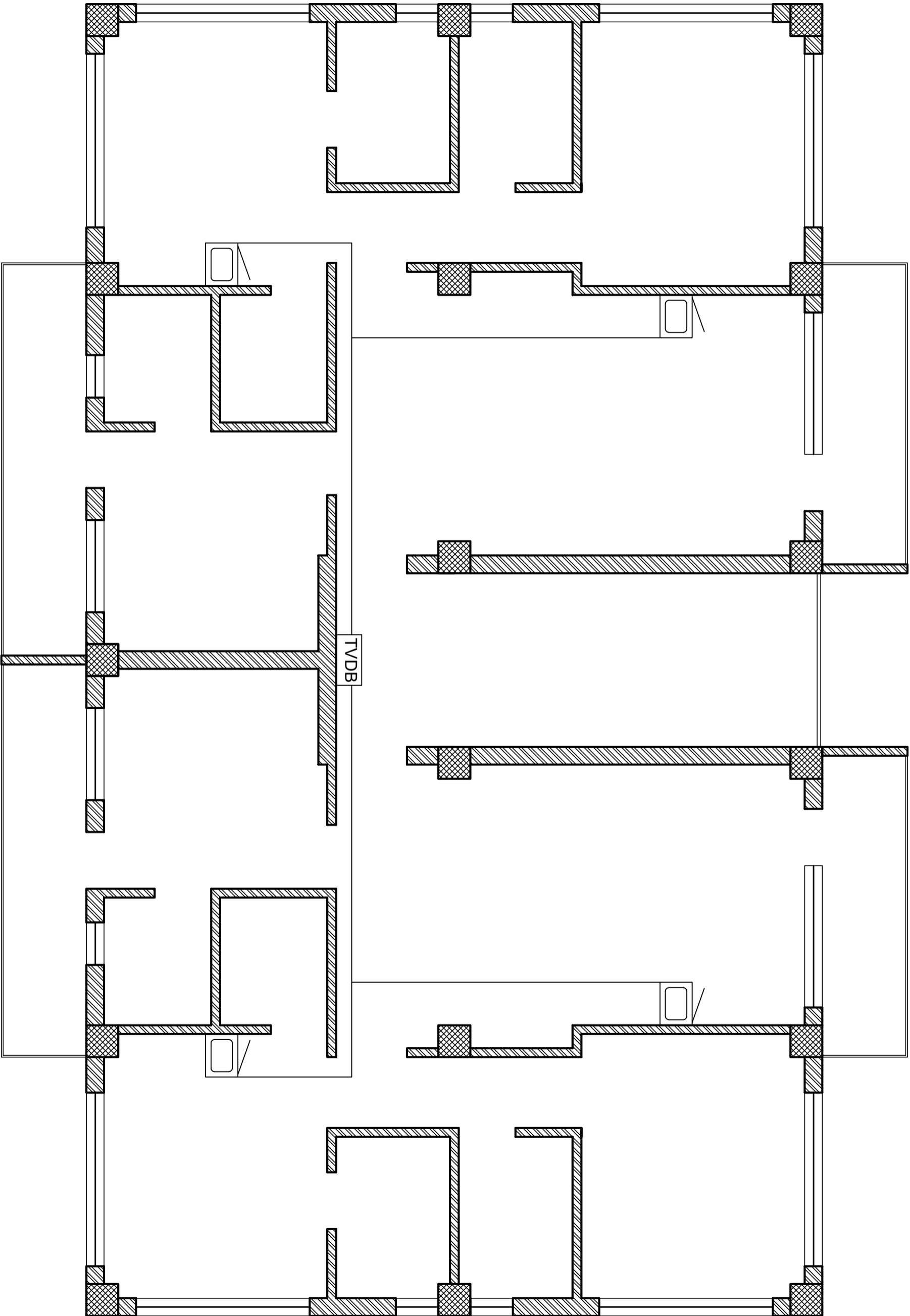
## SECOND FLOOR PLAN - POWER POINT CONDUIT LAYOUT






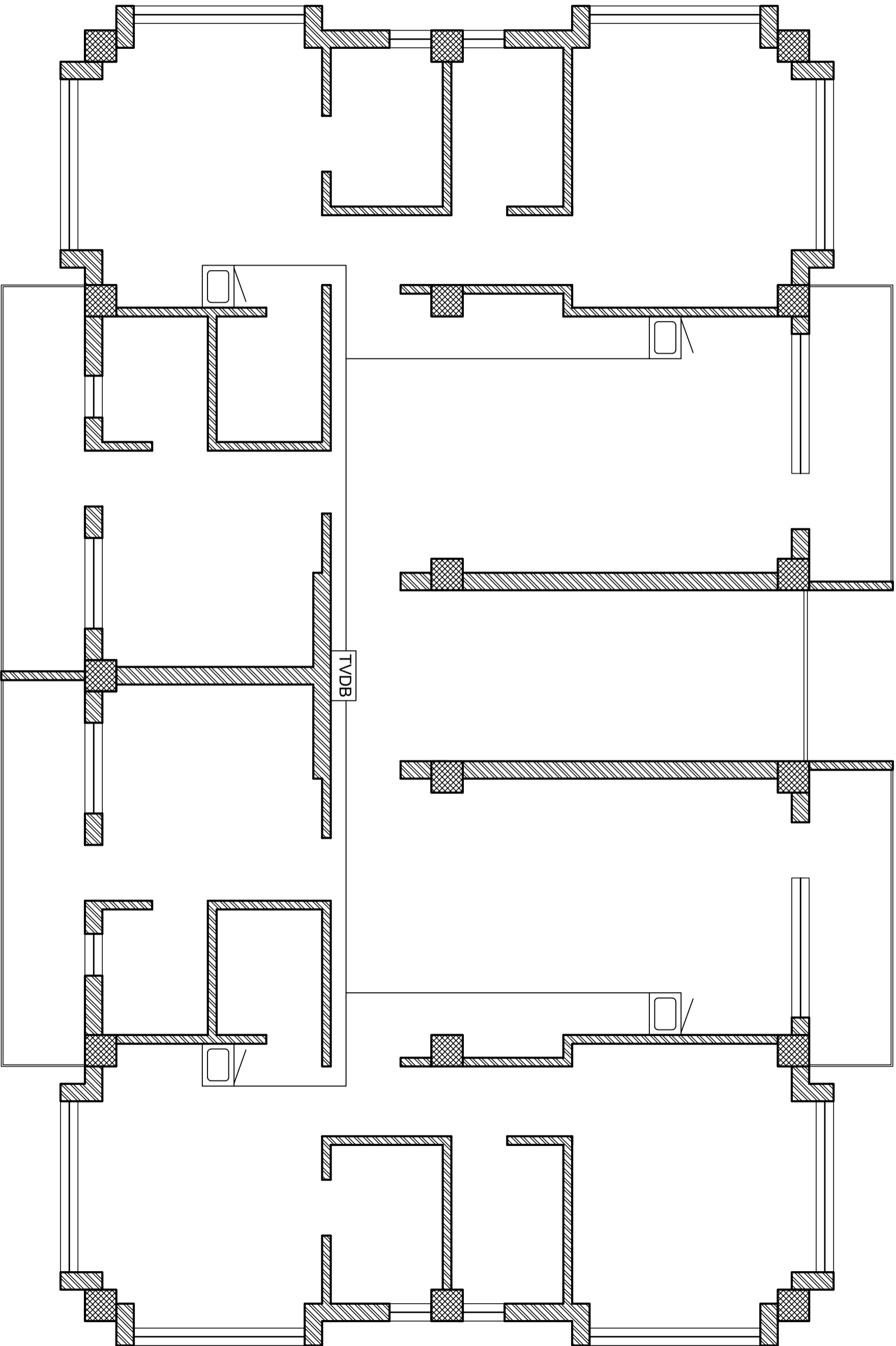
# GROUND FLOOR PLAN - TV POINT CONDUIT LAYOUT

		<b>BHUTAN POWER CORPORATION LIMITED</b>		TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.	
PROJECT TITLE		DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TROMGSA		DRAWING STATUS	
REFERENCE NOTES		APPROVAL		APPROVED	
APPROVED BY		DESIGNED BY		SCALE	
KUNZANG TOBGYE GENERAL MANAGER TD, BPC.		SANGAY WANGDI ENGINEER, TD, BPC.		DATE	
DRAWING TITLE		REFER DRAWING		DWG # 20/25	
DRAWING NO.		BPC/TD/TMD/ELECTRICAL		FEBRUARY, 2022.	




# FIRST FLOOR PLAN - TV POINT CONDUIT LAYOUT

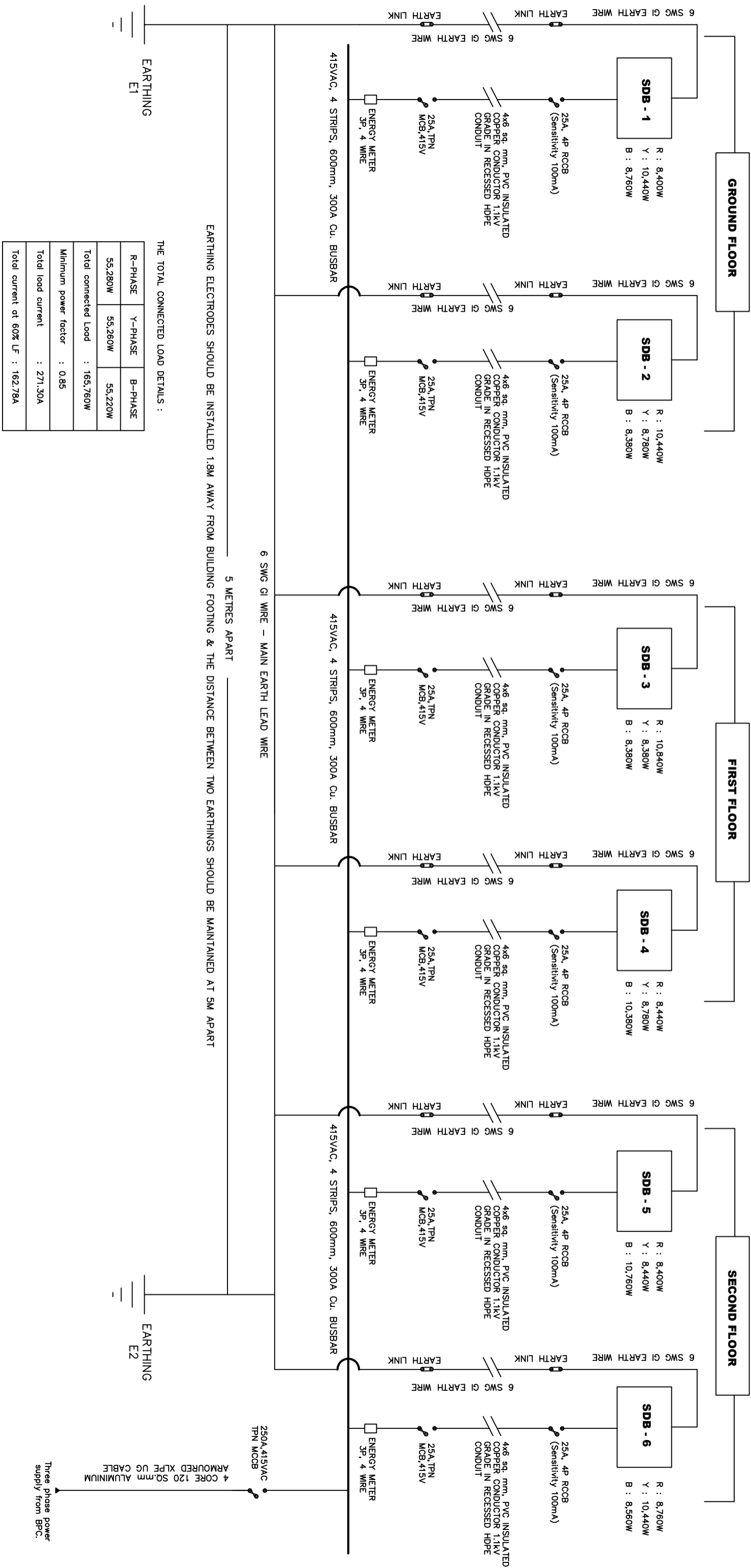
		<b>BHUTAN POWER CORPORATION LIMITED</b>		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.		DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TRONGSA		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED.		2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED.		KUNZANG TOBGYE GENERAL MANAGER TD, BPC.		SANGAY WANGDI ENGINEER, TD, BPC.		REFER DRAWING		BPC/TD/TMD/ELECTRICAL	
DRAWING STATUS		APPROVAL <input type="checkbox"/>		APPROVED <input type="checkbox"/>		3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.		SCALE		DATE		REF DWG		FEBRUARY, 2022.	
														<b>DWG # 21/25</b>	



# SECOND FLOOR PLAN - TV POINT CONDUIT LAYOUT

		<b>BHUTAN POWER CORPORATION LIMITED</b>		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.		DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TRONGSA		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED. 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED. 3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.		KUNZANG TOBGYE GENERAL MANAGER TD, BPC.		SANGAY WANGDI ENGINEER, TD, BPC.		REFER DRAWING		BPC/TD/TMD/ELECTRICAL			
DRAWING STATUS		APPROVAL <input type="checkbox"/> APPROVED <input type="checkbox"/>		SCALE		DATE		REF DWG		FEBRUARY, 2022.		DWG # 22/25			

## SINGLE LINE DIAGRAM FOR MAIN DISTRIBUTION BOARD



R-PHASE	Y-PHASE	B-PHASE
55,280W	55,260W	55,220W
Total connected Load : 165,760W		
Minimum power factor : 0.85		
Total load current : 271.30A		
Total current at 60% LF : 162.78A		

R-PHASE	Y-PHASE	B-PHASE
55,280W	55,260W	55,220W
Total connected Load : 165,760W		
Minimum power factor : 0.85		
Total load current : 271.30A		
Total current at 60% LF : 162.78A		

R-PHASE	Y-PHASE	B-PHASE
55,280W	55,260W	55,220W
Total connected Load : 165,760W		
Minimum power factor : 0.85		
Total load current : 271.30A		
Total current at 60% LF : 162.78A		

R-PHASE	Y-PHASE	B-PHASE
55,280W	55,260W	55,220W
Total connected Load : 165,760W		
Minimum power factor : 0.85		
Total load current : 271.30A		
Total current at 60% LF : 162.78A		

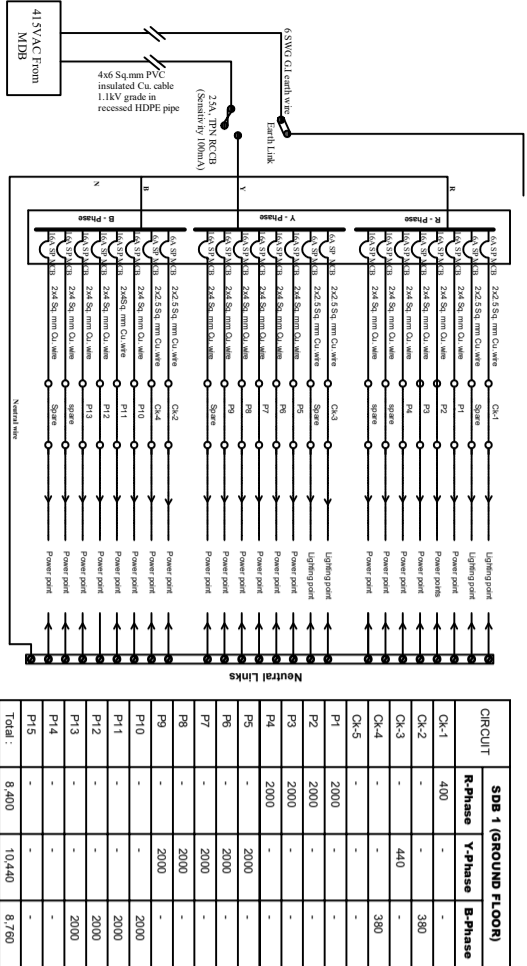
R-PHASE	Y-PHASE	B-PHASE
55,280W	55,260W	55,220W
Total connected Load : 165,760W		
Minimum power factor : 0.85		
Total load current : 271.30A		
Total current at 60% LF : 162.78A		

R-PHASE	Y-PHASE	B-PHASE
55,280W	55,260W	55,220W
Total connected Load : 165,760W		
Minimum power factor : 0.85		
Total load current : 271.30A		
Total current at 60% LF : 162.78A		

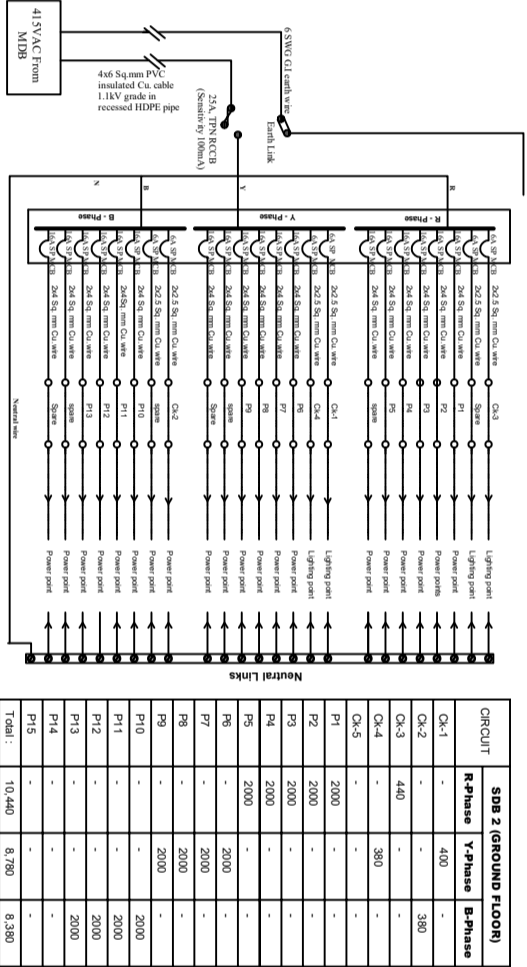
R-PHASE	Y-PHASE	B-PHASE
55,280W	55,260W	55,220W
Total connected Load : 165,760W		
Minimum power factor : 0.85		
Total load current : 271.30A		
Total current at 60% LF : 162.78A		

SINGLE LINE DIAGRAM FOR SUB - DISTRIBUTION BOARDS

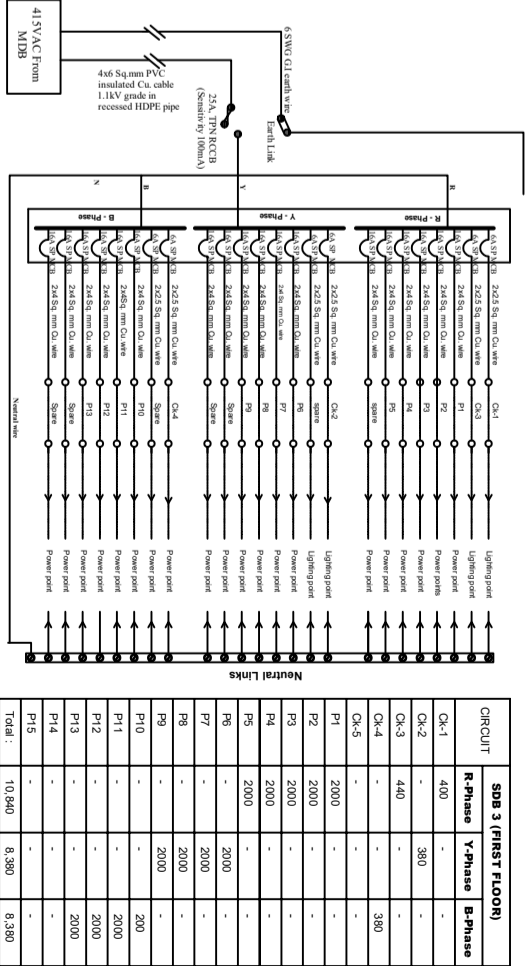
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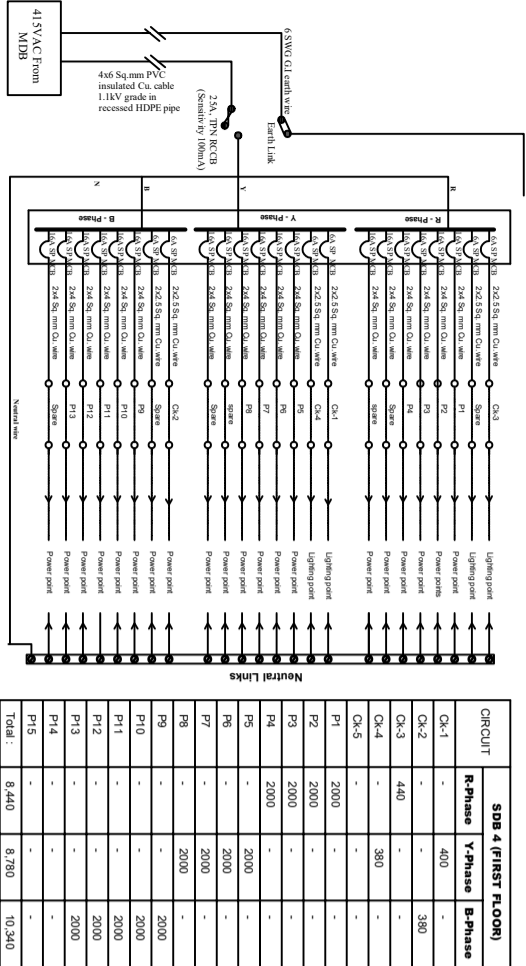
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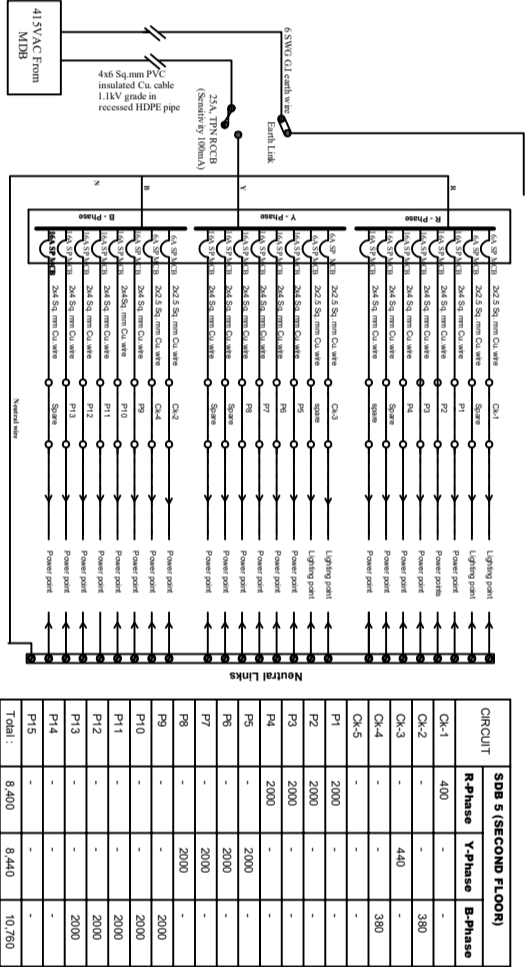
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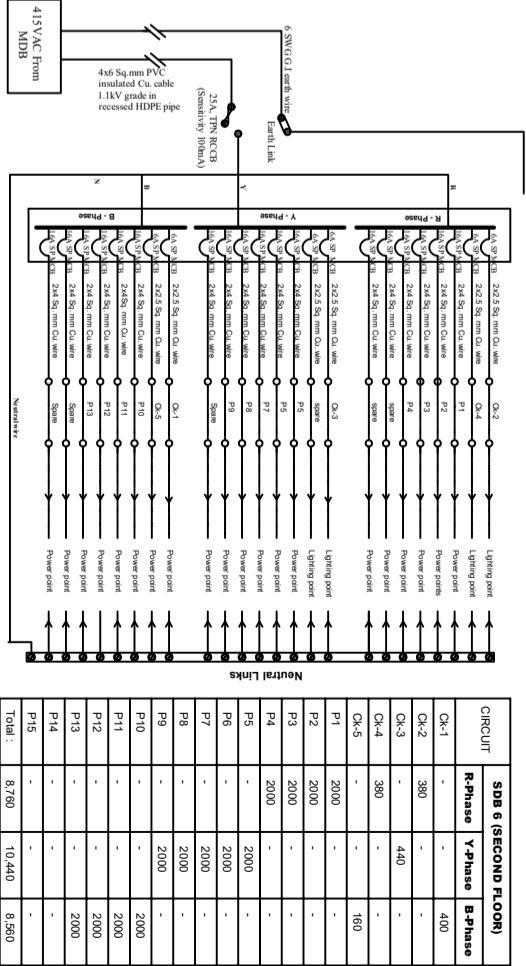
SINGLE LINE DIAGRAM FOR SUBDISTRIBUTION BOARD (SDB) No. 4, TPN 8 WAY DB




SINGLE LINE DIAGRAM FOR SUBDISTRIBUTION BOARD (SDB) No. 5, TPN 8 WAY DB



SINGLE LINE DIAGRAM FOR SUBDISTRIBUTION BOARD (SDB) No. 6, TPN 8 WAY DB





BUHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.

PROJECT TITLE

DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TIRONCSA

DRAWING STATUS

APPROVAL ☐ APPROVED ☐

REFERENCE NOTES

1. ALL MEASUREMENTS IN THE DRAWING ARE IN MM UNLESS AND OTHERWISE MENTIONED.  
2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED.  
3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE

APPROVED BY

DESIGNED BY

DRAWING TITLE

REFER DRAWING

DRAWING NO.

DWG # 24/25

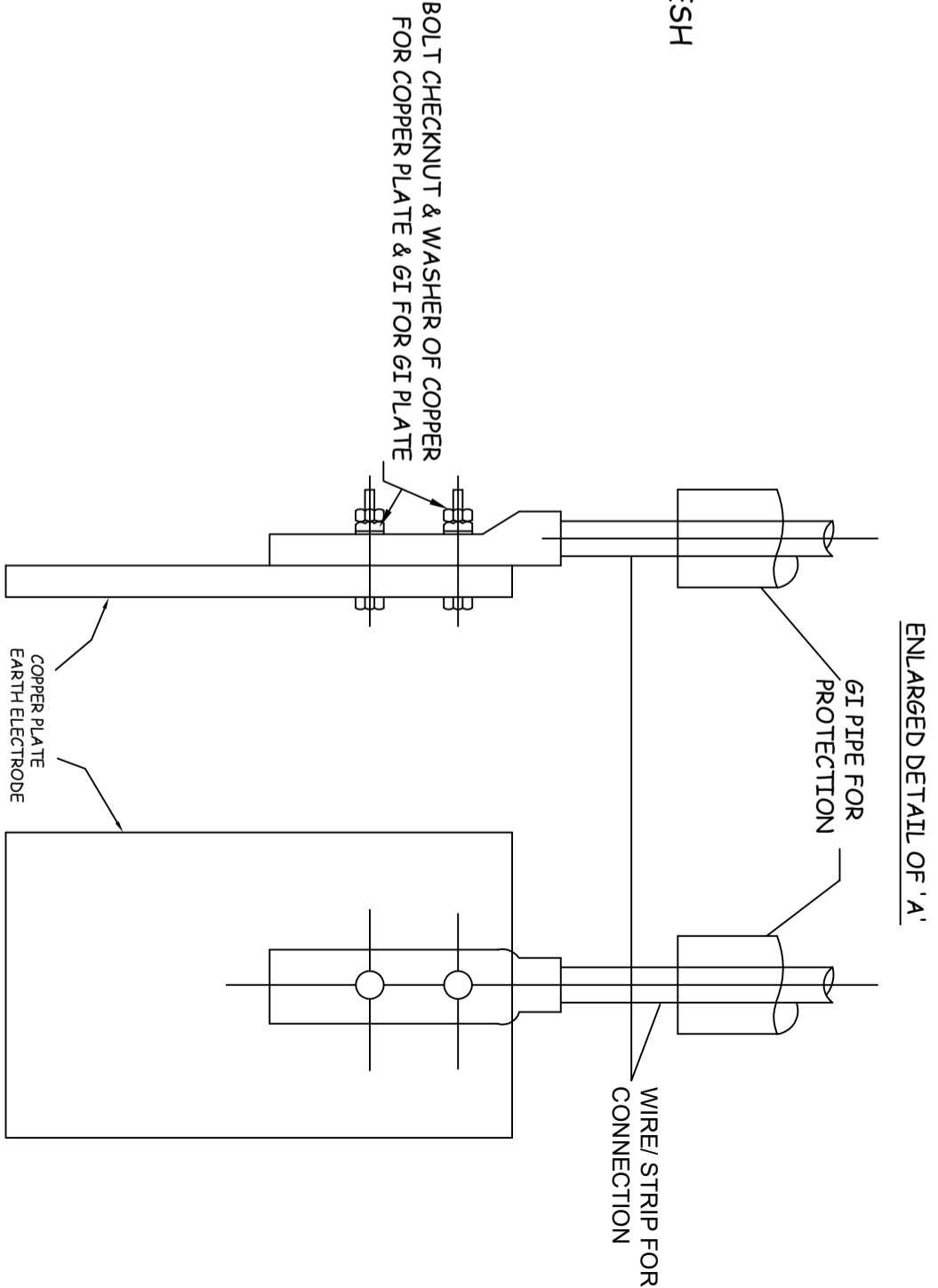
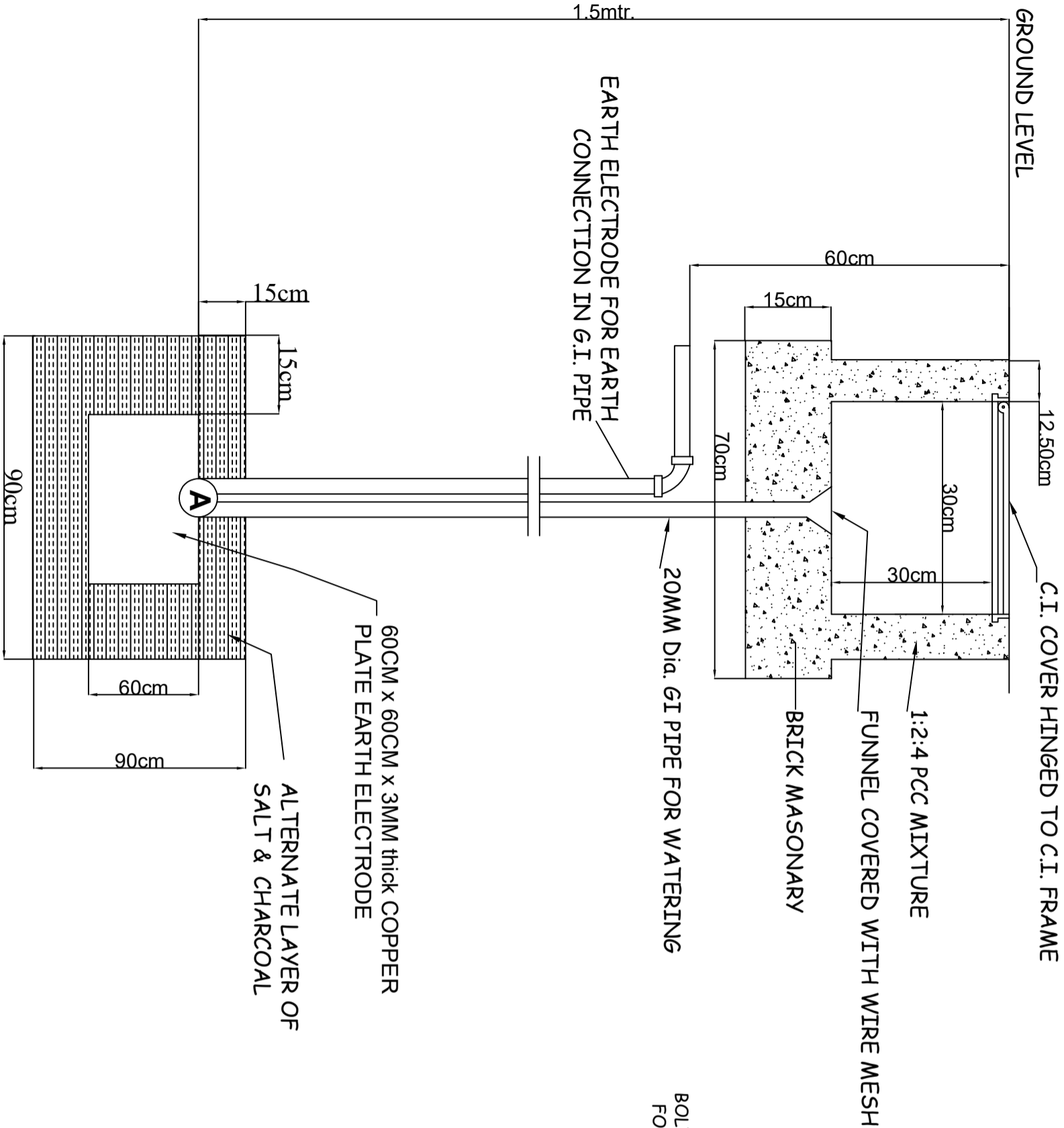
KUNZANG TOBGYE  
GENERAL MANAGER  
TD, BPC.

SANGAY WANGDI  
ENGINEER, TD, BPC.

SCALE

DATE


FEBRUARY, 2022.



### TECHNICAL SPECIFICATIONS FOR EARTHING:

1. Nuts, bolts & washers to be of GI for GI plate and tinned brass for copper pate.
2. The plate electrode shall be buried in ground with face vertical and top not less than 3m below ground level.
3. Earth electrode shall be suited not less than 1.8m away from building footings.
4. No earth electrodes shall have a resistance greater than 5 ohms as measured by an approved earth testing apparatus. However, in rocky soils resistance may be accepted upto 8 ohms.
5. The size of main earthing lead shall be not less than 8 SWG of copper or 6 SWG G.I wires or copper strips 20mm x 3mm in case for copper earth plate and G.I strips 25mm x 4mm in case G.I earth plate.
6. The seperate earthing electrode must be provided for lightning arresters for building protections. The distance between any two earthing electrodes shall be 5m.
7. Any specification not included herein is deemed to be followed as specified in relevant agency standards of Bhutan or as per international standards in consultation with the client.

## TYPICAL INSTALLATION OF PLATE EARTHING

	<b>BHUTAN POWER CORPORATION LIMITED</b>										
	<b>TRANSMISSION DEPARTMENT, THIMPHU: BHUTAN.</b>										
<b>PROJECT TITLE</b>		<b>REFERENCE NOTES</b>		<b>APPROVED BY</b>		<b>DESIGNED BY</b>		<b>DRAWING TITLE</b>		<b>DRAWING NO.</b>	
<b>DESIGN OF STAFF QUARTER (G+2) AT YURMOO, TIRONGSA</b>		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED. 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED. 3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER.		KUNZANG TOBGYE GENERAL MANAGER TD, BPC.		SANGAY WANGDI ENGINEER, TD, BPC.		REFER DRAWING		BPC/TD/TMD/ELECTRICAL	
<b>DRAWING STATUS</b>		<b>APPROVAL</b> <input type="checkbox"/> <b>APPROVED</b> <input type="checkbox"/>						<b>SCALE</b>		<b>DATE</b>	
								<b>REF DWG</b>		<b>DWG # 25/25</b>	