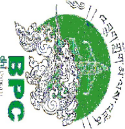

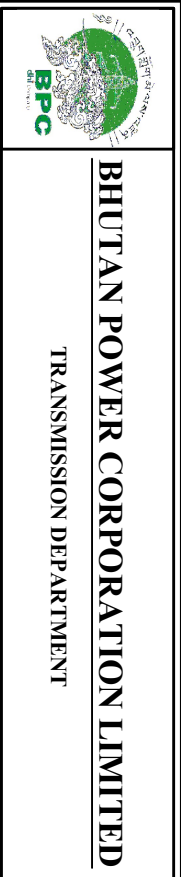


STRUCTURAL DRAWINGS

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

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DRAWING NAME	PAGE NUMBER	
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SCHEDULE OF FOOTINGS	03	
SECTION OF WALL FOOTING	04	
COLUMN LAYOUT PLAN	05	
SCHEDULE OF COLUMNS & TYPICAL COLUMN DETAILS	06	
TYPICAL COLUMN REBAR & SPLICING DETAILS	07	
BEAM NOTES	08	
PLINTH BEAM LAYOUT PLAN	09	
PLINTH BEAM SECTION DETAILS	10-11	
FIRST FLOOR BEAM LAYOUT PLAN	12	
FIRST FLOOR BEAM SECTION DETAILS	13-14	
SECOND FLOOR BEAM LAYOUT PLAN	15	
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ROOF BEAM LAYOUT PLAN	18	
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FIRST FLOOR SLAB REINFORCEMENT	25-26	
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SECOND FLOOR SLAB REINFORCEMENT	28-29	
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ROOF FLOOR SLAB REINFORCEMENT	31-32	
ROOF FLOOR SLAB SECTION DETAILS	33	
JAMTHO FLOOR WALL DETAILS	34	
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	BHUTAN POWER CORPORATION LIMITED	
TRANSMISSION DEPARTMENT		
PROJECT TITLE	DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION	
DRAWING STATUS	APPROVAL <input checked="" type="checkbox"/>	APPROVED <input type="checkbox"/>
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 TD, BPC	DESIGNED BY  DORJI KINLEY EXECUTIVE ENGINEER TD, BPC
DRAWING TITLE	COVER PAGE	DRAWING NO.
SCALE	DATE	BPC/TD/TMD/GOMTU/SID
-	FEBRUARY, 2022	DWG # 00



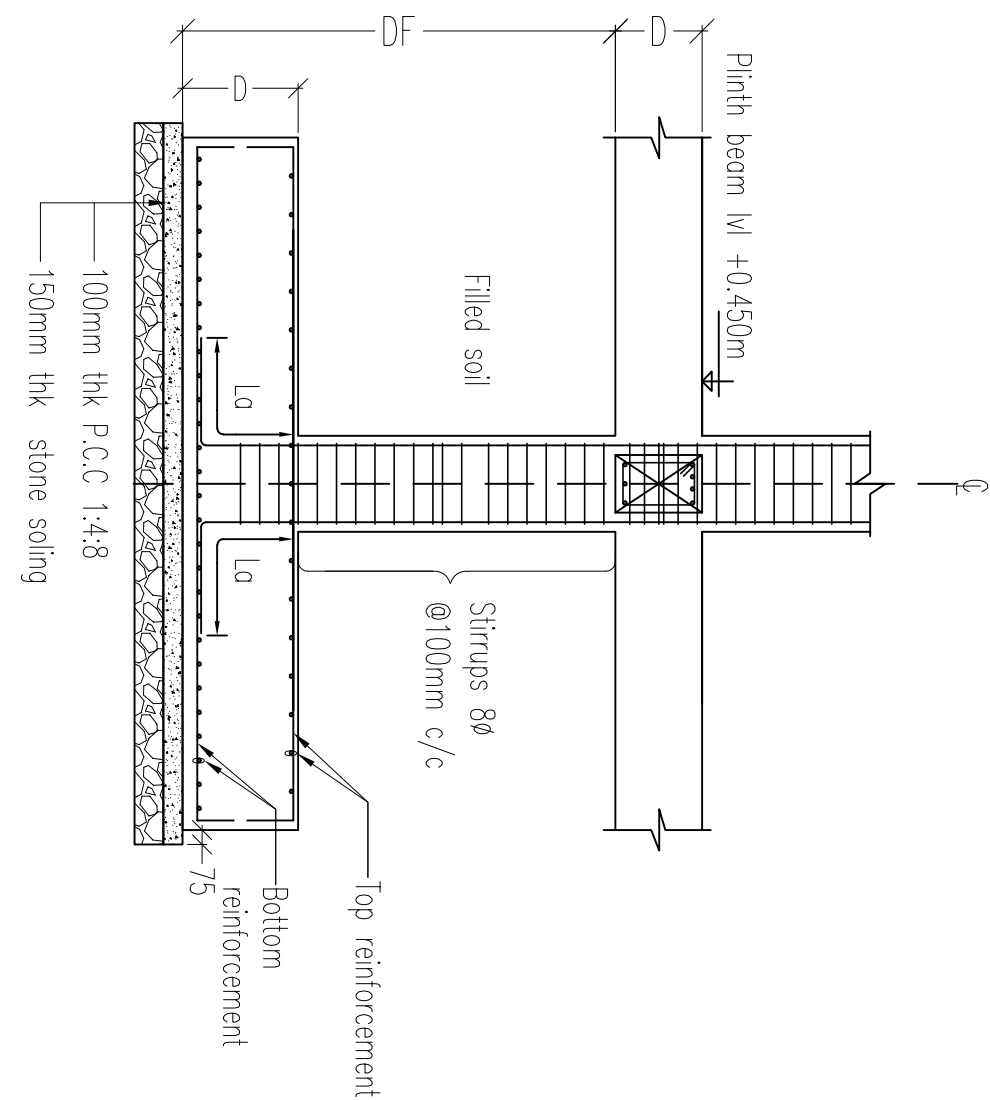
PROJECT TITLE					
DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION					
DRAWING STATUS	<table border="1"> <tr> <td>APPROVAL</td> <td><input type="checkbox"/></td> <td>APPROVED</td> <td><input type="checkbox"/></td> </tr> </table>	APPROVAL	<input type="checkbox"/>	APPROVED	<input type="checkbox"/>
APPROVAL	<input type="checkbox"/>	APPROVED	<input type="checkbox"/>		

DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION	
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PROVED

DRAWING NO.

DWG # 03

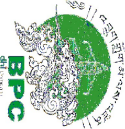

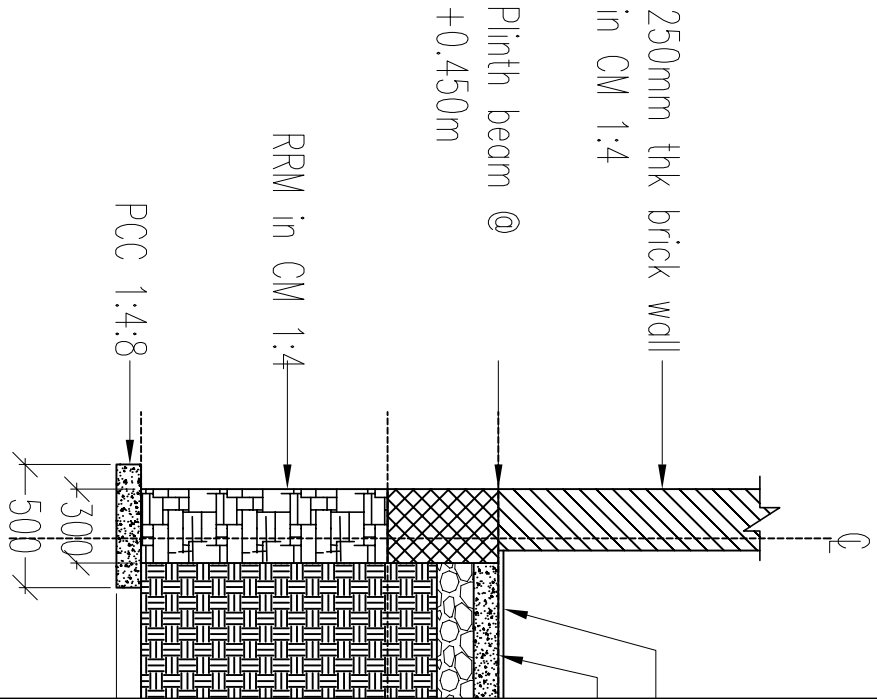


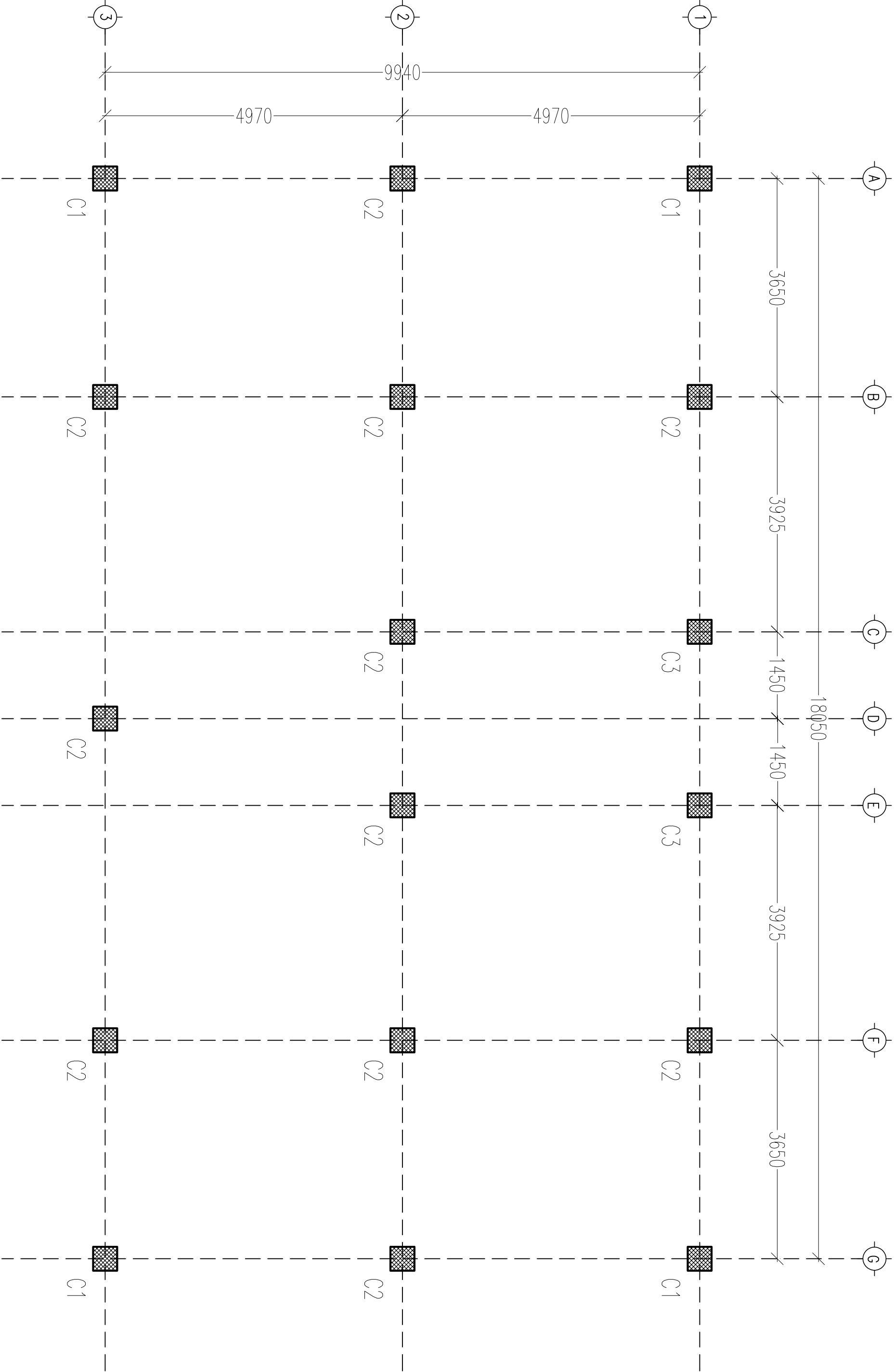
SECTIONAL ELEVATION

Bar Dia.	Development Length (Ld)	Anchorage Length (Ld)
12Ø	684	804
16Ø	912	1072
20Ø	1140	1340
25Ø	1425	1675

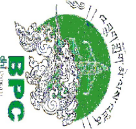

Material specifications:

1. Grade of concrete for RC footing works shall be....M20;
2. Grade of steel/rebars for RC beam works shall be....Fe 500 (BSB approved brands);
3. Aggregates for all RC works shall be of nominal size....20mm;
4. Water fit for drinking shall be used for concrete mix designs;
5. Minimum clear cover to the footing reinforcement...50 mm.

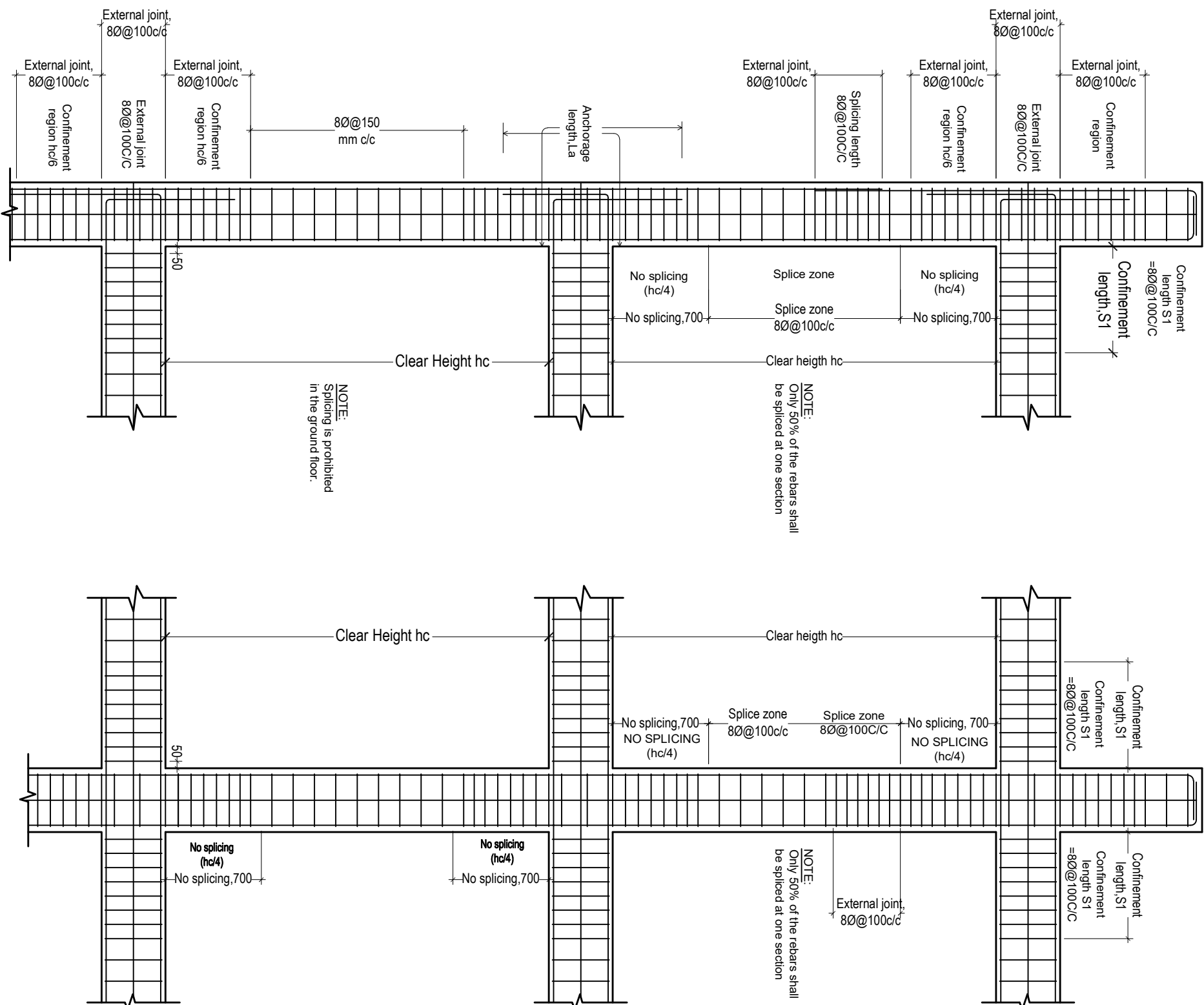
<div><div><div>BHUTAN POWER CORPORATION LIMITED</div><div>TRANSMISSION DEPARTMENT</div></div></div>		<div>PROJECT TITLE</div> <div>DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION</div> <div><div>DRAWING STATUS</div><div>APPROVAL <input type="checkbox"/></div><div>APPROVED <input type="checkbox"/></div></div>		<div>REFERENCE NOTES</div> <div>1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED</div> <div>2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED</div> <div>3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER</div>		<div>APPROVED BY</div> <div>KUNZANG TOBGYE GENERAL MANAGER TD, BPC</div>		<div>DESIGNED BY</div> <div><div>DORJI KINLEY EXECUTIVE ENGINEER TD, BPC</div></div>		<div>DRAWING TITLE</div> <div>REFER DRAWING</div> <div>SCALE</div> <div>NTS</div>		<div>DRAWING NO.</div> <div>BPC/TD/TMD/GOMTU/SD</div> <div>DWG # 04</div>	
<div><div>RRM EXTERNAL WALL</div></div>													



COLUMN LAYOUT PLAN

		BHUTAN POWER CORPORATION LIMITED		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
TRANSMISSION DEPARTMENT		DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		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				REFER DRAWING		BPC/TD/TMD/GOMTU/SD	
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	
												NTS		FEBRUARY, 2022	
														DWG # 05	

TYPICAL COLUMN REBAR AND SPlicing DETAILS



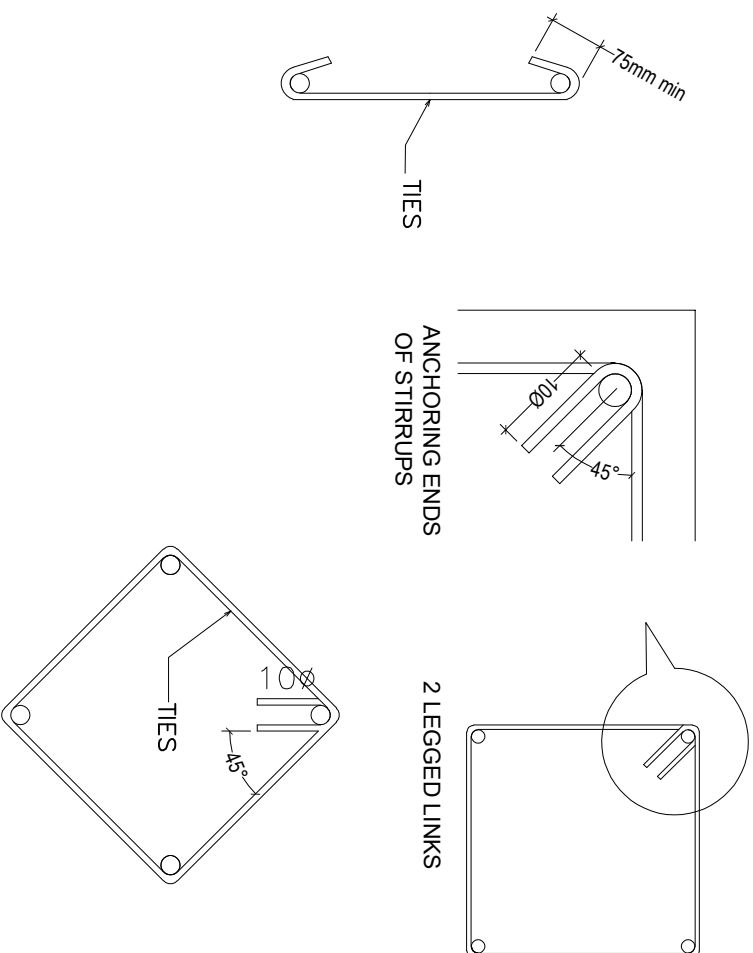
Material specifications:

1. Grade of concrete for RC column works shall be.....M20;
2. Grade of steel/rebars for RC column works shall be...Fe 500 (BSB approved brands);
3. Aggregates for all RC works shall be of nominal size.....20mm;
4. Water fit for drinking shall be used for concrete mix designs;
5. Minimum clear cover to the beam reinforcement.....25mm.

Bar Dia.	Development Length (Ld)	Anchorage Length (La)
12Ø	684	804
16Ø	912	1072
20Ø	1140	1340
25Ø	1425	1675

General Detailing Notes:

1. Special confining reinforcement ties of $8\phi @ 100\text{mm}$ c/c shall be provided over a length of $h_c/6$ from each face of beam towards mid-span of the column.
2. Special confining reinforcement of $8 @ 100\text{ mm}$ c/c shall be continued into the footing pad up to a minimum of 300mm from the top face of the footing pad.
3. The main reinforcement of columns shall be straight without kinks or crank.
4. The splice in the column shall be away from the support by $h_c/4$ and the splice length shall be the development length (L_d) in tension.
5. Columns supporting staircase shall be provided with special confining ties of $10\phi @ 100\text{c/c}$ throughout the column length.
6. Splicing at ground floor level is prohibited.
7. Only 50% of main rebars are spliced at one section.
8. Except in confining & splicing zone, rest of the column length shall have ties/links of $8 @ 150\text{mm}$ c/c.
9. Ties/links of $8\phi @ 100\text{mm}$ c/c shall be provided throughout the length of splicing zone.
10. The main rebars in the beam must be properly anchored in columns by length not less than L_a of the rebar given in the table above:.
11. The one fourth ($1/4$) of the column length near the beam connection or framing into the column shall be casted monolithically with beams and slabs.






BHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT

PROJECT TITLE	
DESIGN OF STAFF QUARTER (G+2), AT GOMTU SUBSTATION	
DRAWING STATUS	APPROVAL <input type="checkbox"/> APPROVED <input type="checkbox"/>

REFERENCE NOTES
1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS 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 TD, BPC	

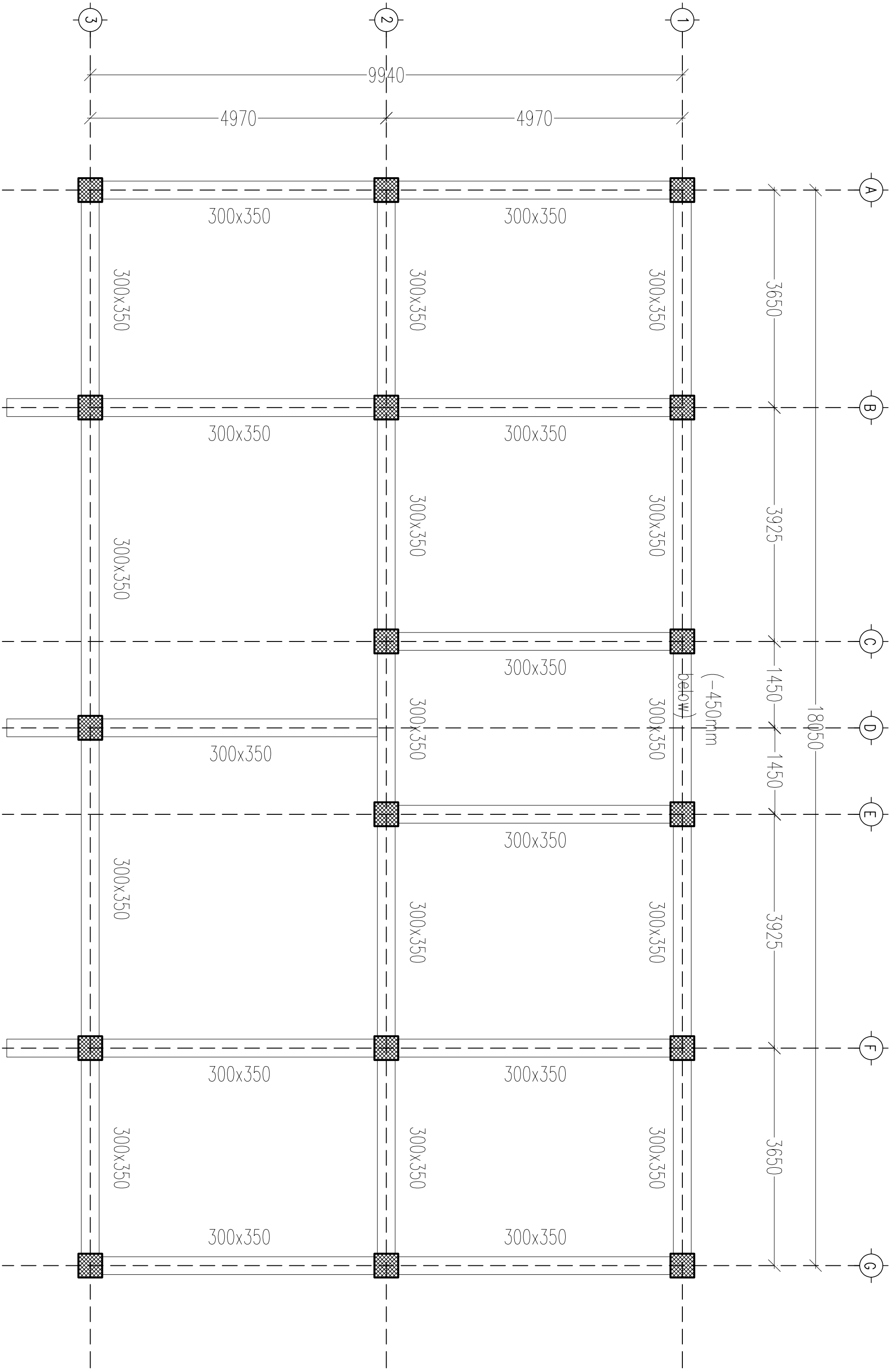
DESIGNED BY	
DORJI KINLEY EXECUTIVE ENGINEER TD, BPC	

DRAWING TITLE	
REFER DRAWING	
SCALE	DATE
NTS	FEBRUARY, 2022


DRAWING NO.
BPC/TD/TMD/GOMTU/SD
DWG # 08

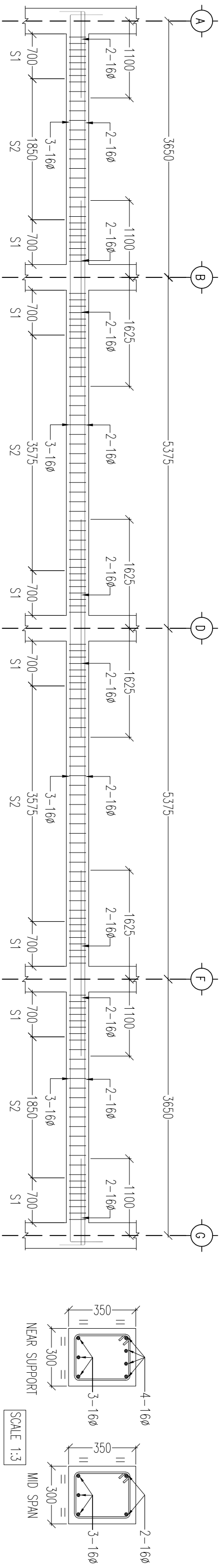
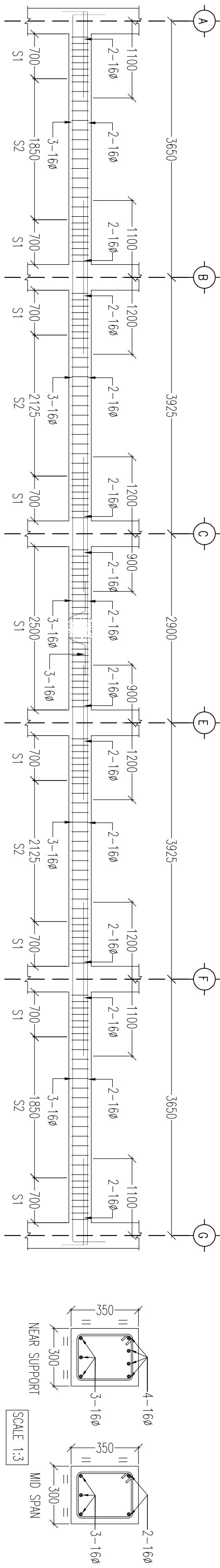
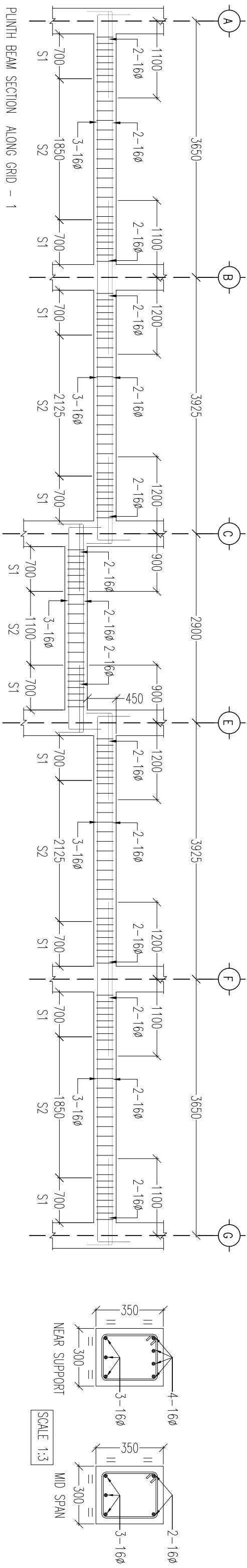
BEAM NOTES:

1. The longitudinal rebar of beam shall be anchored in to the column by length L_d (anchorage length) of the rebar as specified in the table
2. Stirrups/hoops of 8Ø rebars—135 degrees, with an extension of $10 \times \phi$, and it shall be embedded in the confined core of the section
3. Lap splice for tension reinforcement or bottom steel shall not be provided at (a) within a joint, (b) within a distance of $2d$ from the joint face or (c) within a quarter length of the member
4. The splicing of the compression or top reinforcement shall be provided near or at mid—span of the beam member
5. Not more than 50% of the bars shall be spliced at one section
6. The lap/splice length shall not be less than development length in tension i.e. L_d , as specified in the table
7. The first stirrup should be provided at the distance of 40mm from the face of the column
8. Stirrups of $8\phi @ 100\text{mm c/c}$ shall be provided up to the distance of $2D$ from the column face, where D = total depth of beam
9. Stirrups of $8\phi @ 100\text{mm c/c}$ shall be provided throughout the splicing length of reinforcement bar in a member (beam/column etc.)
10. Minimum clear cover to the beam reinforcement shall be 25mm
11. The beam form works shall not be removed till the required strength of concrete is achieved.
12. Sharp bent in main reinforcement bars shall be avoided at lapping & beam—column joint REF DWG. Maximum slope of 1:6 shall be maintained in the bends
13. Lintel/band reinforcement connection provision shall be kept while casting the beam, column, slab
14. Vertical wall reinforcement bars shall be placed while casting the slab particularly for the projected wall/rabssel walls
15. Refer table give for development length, L_d and anchorage length, L_a
16. Special confining ties shall be provided in the columns of external beam—column joint REF DWG & normal spacing ties in the interior beam—column joint REF DWG
17. Full lap length of rebar shall be provided confining ties & stirrups in column & beam respectively




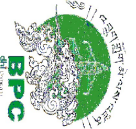

PLINTH BEAM LAYOUT PLAN AT LVL + 0.45M

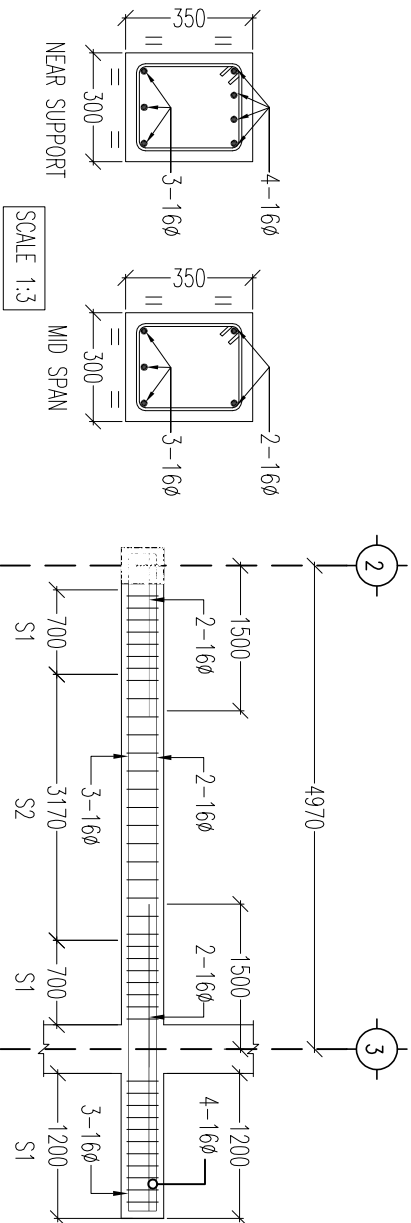
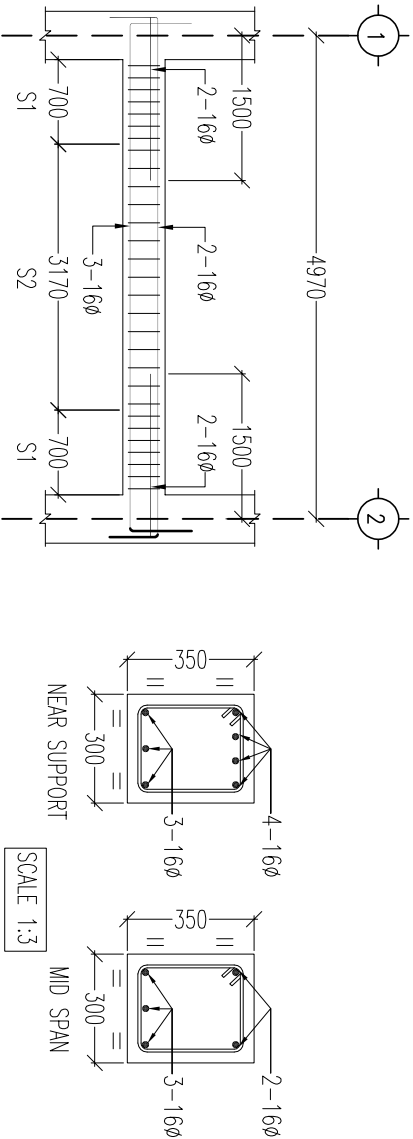
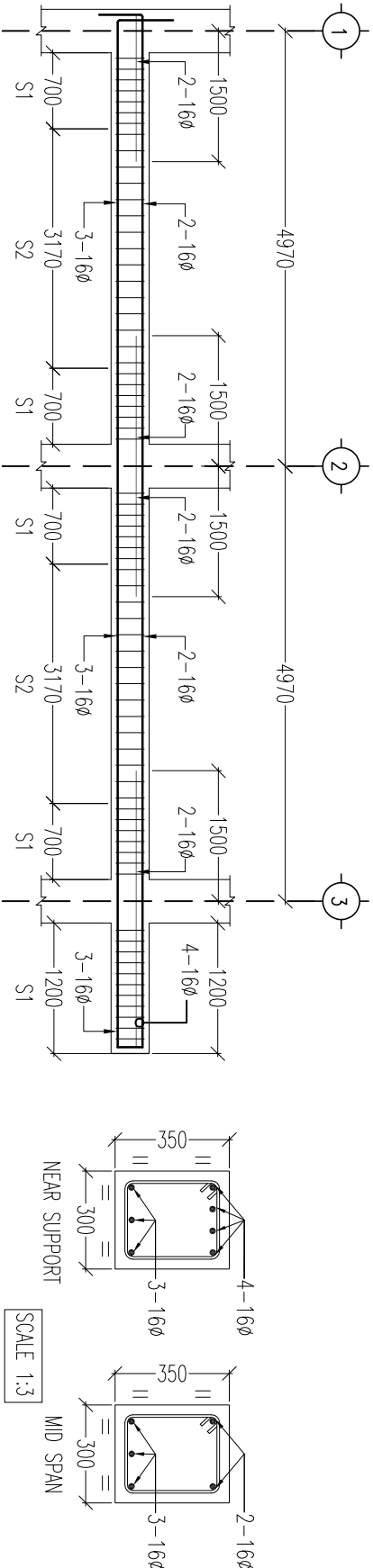
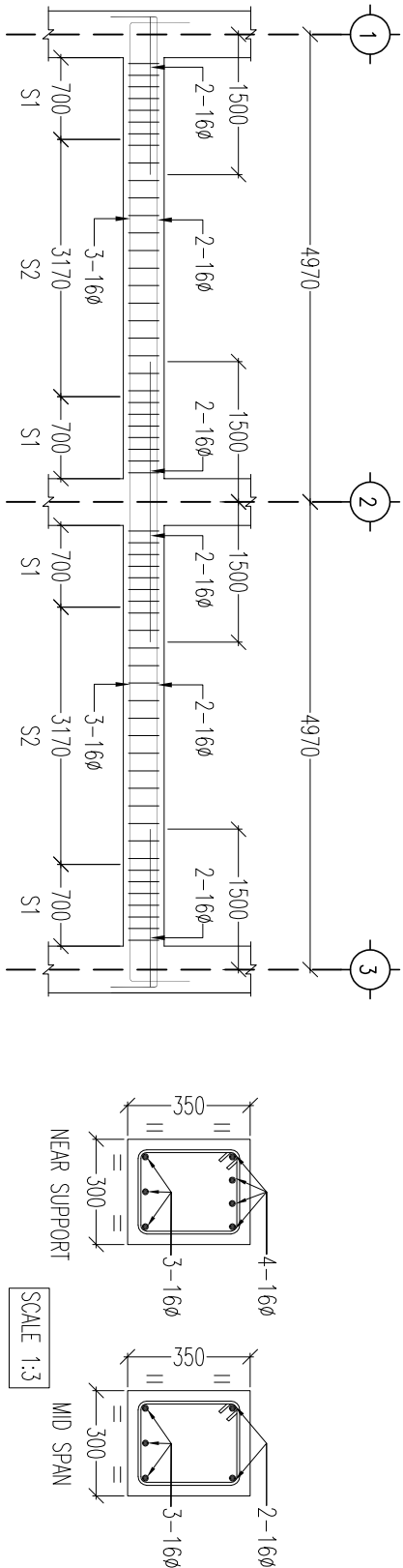
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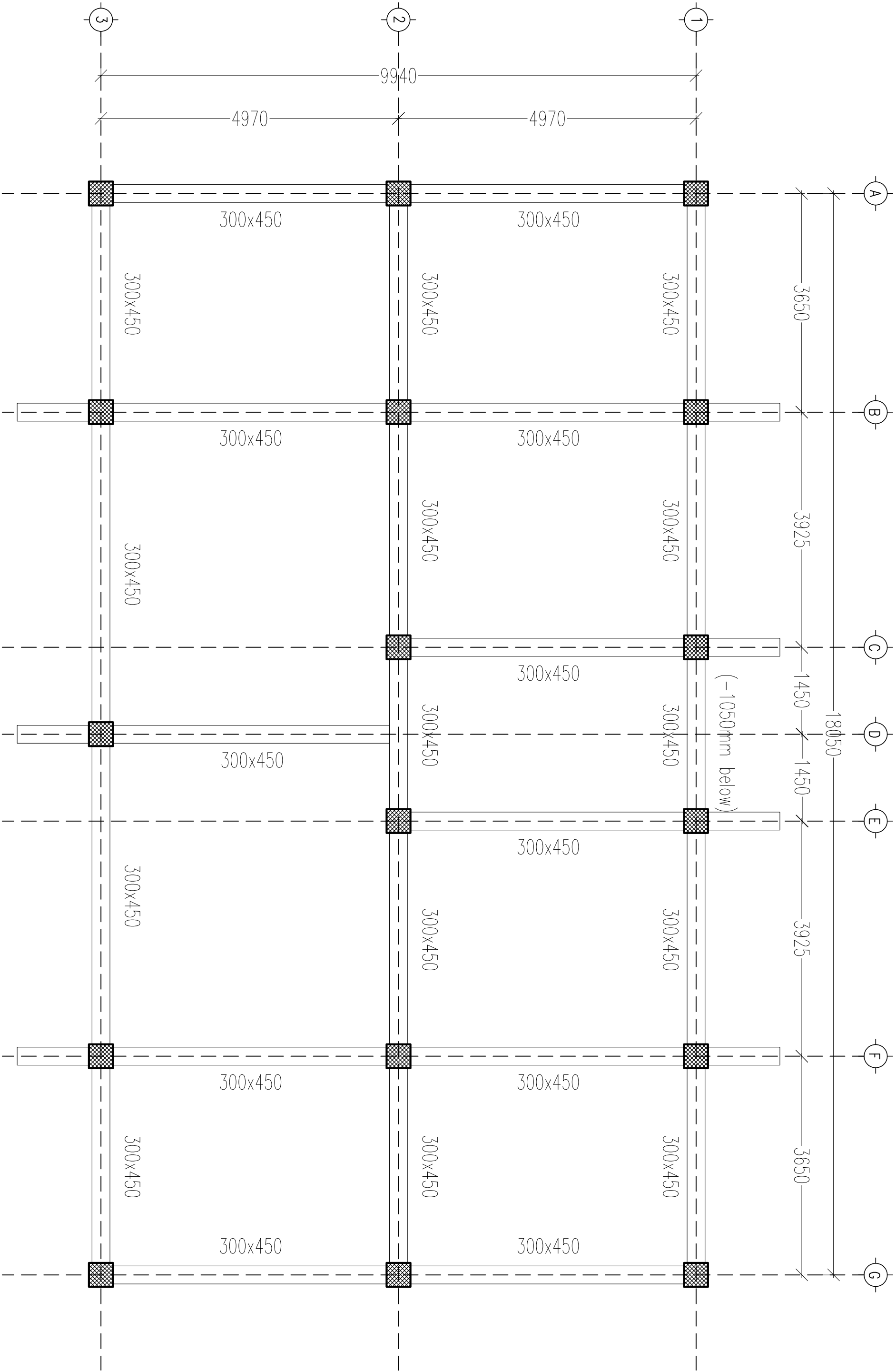
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-THE FIRST STIRRUP IS PLACED 50MM FROM THE FACE OF COLUMN

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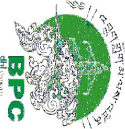
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TRANSMISSION DEPARTMENT		DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE 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		 DORJI KINLEY EXECUTIVE ENGINEER TD, BPC		SCALE		DATE	
		DRAWING STATUS		APPROVAL		APPROVED						REF DWG		FEBRUARY, 2022	
														DWG # 11	



NOTES:-
-S2=L-2S1=8Ø @ 150 C/C
-S1=2D=8Ø 100 C/C
(D - OVERALL DEPTH OF BEAM)
-THE FIRST STIRRUP IS PLACED 50MM FROM THE FACE OF COLUMN



FIRST FLOOR BEAM LAYOUT PLAN AT LVL + 3.60M



BHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT

PROJECT TITLE

DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION

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

DESIGNED BY

KUNZANG TOBGYE
GENERAL MANAGER
TD, BPC

DORJI KINLEY
EXECUTIVE ENGINEER
TD, BPC

DRAWING TITLE

REFER DRAWING

DRAWING NO.

BPC/TD/TMD/GOMTU/SD

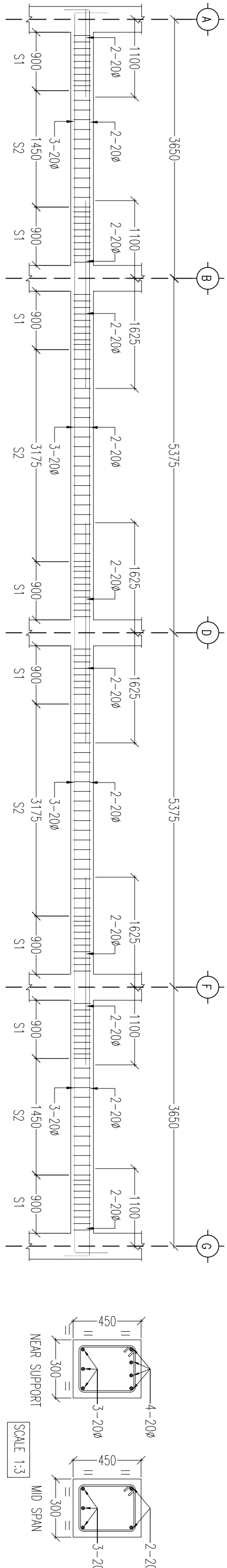
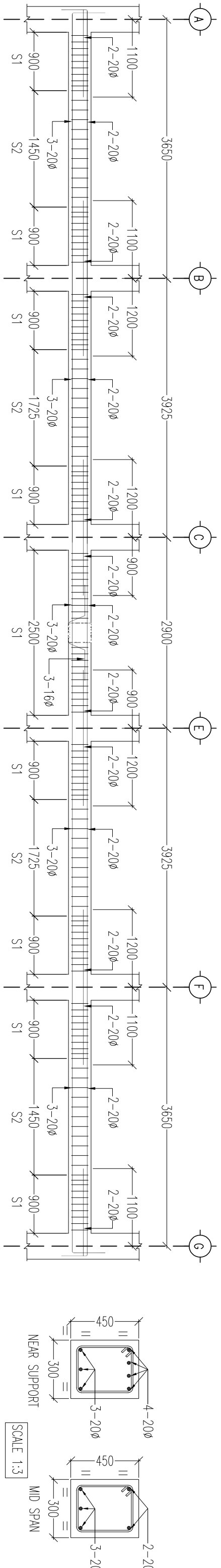
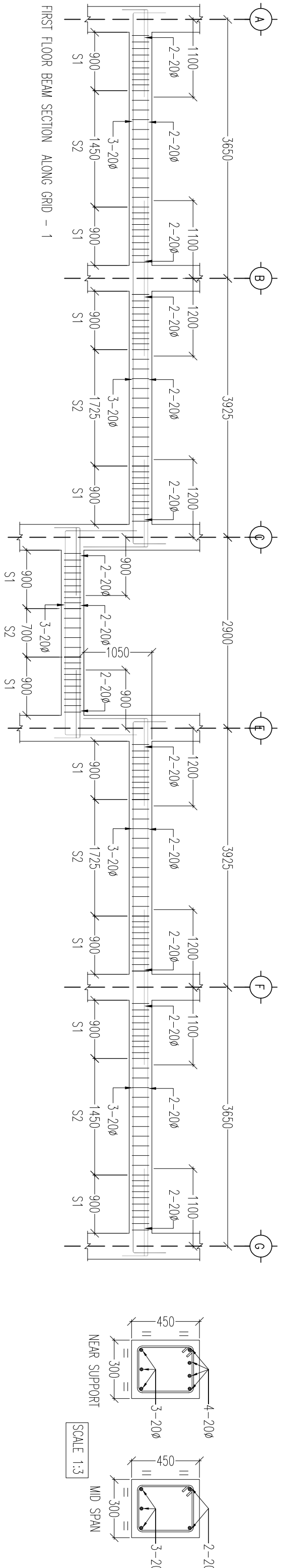
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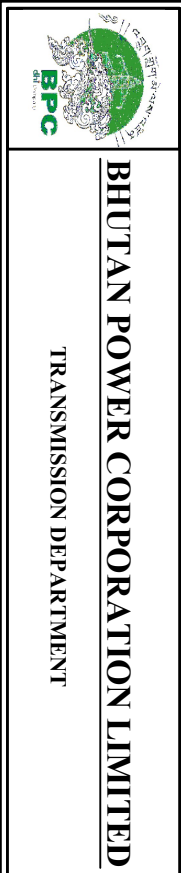
DRAWING STATUS

APPROVED

DWG # 12



NOTES:-
-S2=L-2S1=8Ø @ 150 C/C
-S1=2D=8Ø 100 C/C
(D- OVERALL DEPTH OF BEAM)
-THE FIRST STIRRUP IS PLACED 50MM FROM THE FACE OF COLUMN



PROJECT TITLE	
DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION	
DRAWING STATUS	APPROVAL <input type="checkbox"/> APPROVED <input type="checkbox"/>

REFERENCE NOTES
1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED
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3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER

APPROVED BY
KUNZANG TOBGYE GENERAL MANAGER TD, BPC

DESIGNED BY

(Signature)

DORJI KINLEY
EXECUTIVE ENGINEER
TD, BPC

DRAWING TITLE	
REFER DRAWING	
SCALE	DATE
REF DWG	FEBRUARY, 2022

DRAWING NO.
BPC/TD/TMD/GOMTU/SD
DWG # 14



FIRST FLOOR BEAM SECTION ALONG GRID - A & G



FIRST FLOOR BEAM SECTION ALONG GRID - B & F

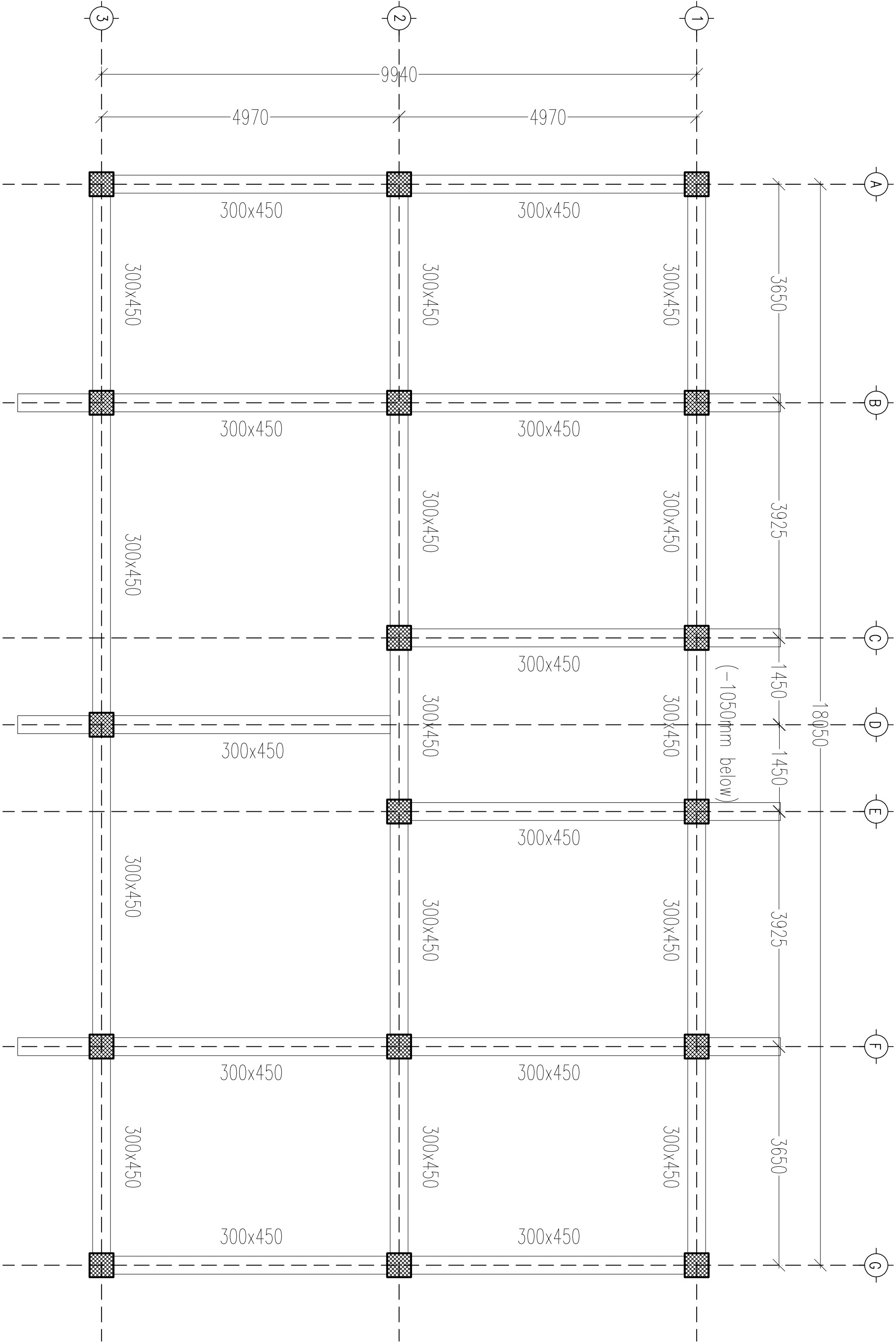


FIRST FLOOR BEAM SECTION ALONG GRID - C & E

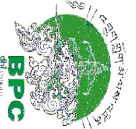
NOTES:-
 $-S2 = -2S1 = 8\phi @ 150 \text{ c/c}$
 $-S1 = 2D = 8\phi \text{ } 100 \text{ c/c}$
 (D)- OVERALL DEPTH OF BEAM)
 -THE FIRST STIRRUP IS PLACED 50MM
 FROM THE FACE OF COLUMN



FIRST FLOOR BEAM SECTION ALONG GRID - D



SECOND FLOOR BEAM LAYOUT PLAN AT LVL+ 6.75M



BHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT

PROJECT TITLE

DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION

DRAWING STATUS

APPROVAL

APPROVED


REFERENCE NOTES

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APPROVED BY

KUNZANG TOBGYE
GENERAL MANAGER
TD, BPC

DESIGNED BY


DORJI KINLEY
EXECUTIVE ENGINEER
TD, BPC

DRAWING TITLE

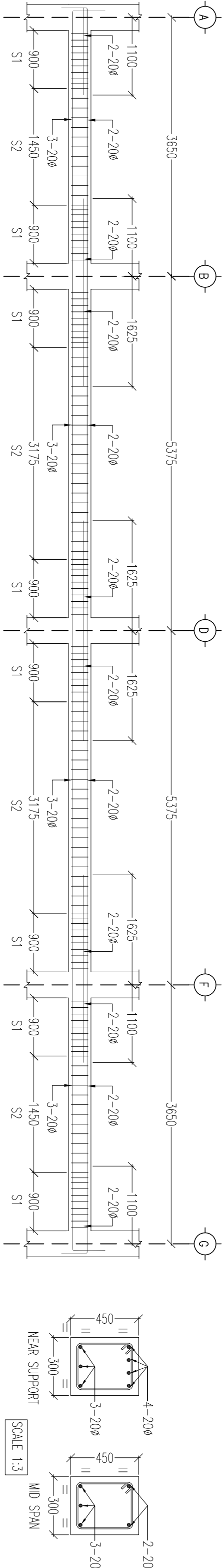
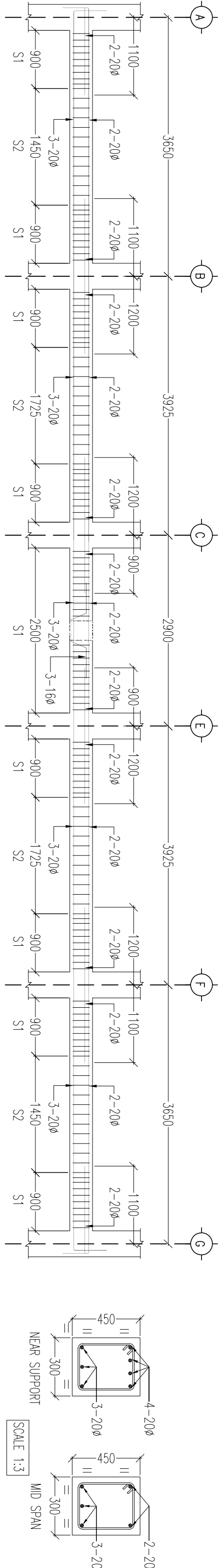
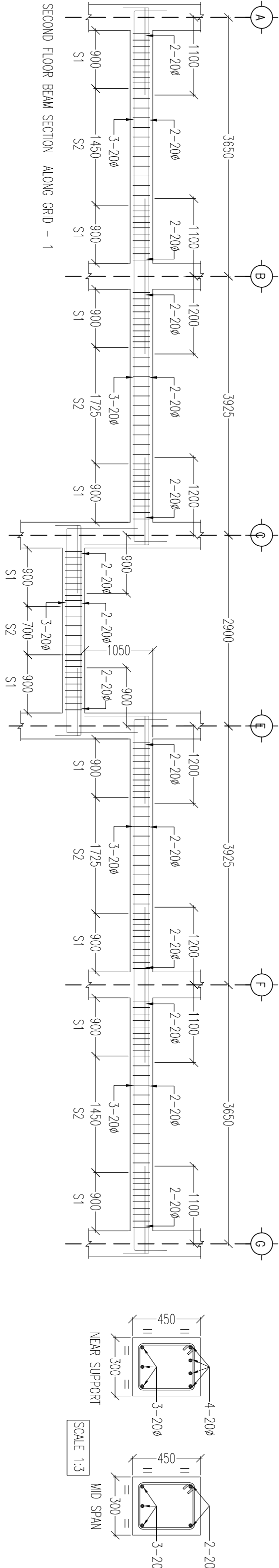
SCALE

DATE



DRAWING NO.

BPC/TD/TMD/GOMTU/SD

DWG # 15



NOTES:-
-S2=L-2S1=8Ø @ 150 C/C
-S1=2D=8Ø 100 C/C
(D- OVERALL DEPTH OF BEAM)
-THE FIRST STIRRUP IS PLACED 50MM FROM THE FACE OF COLUMN

	BHUTAN POWER CORPORATION LIMITED	
	TRANSMISSION DEPARTMENT	
PROJECT TITLE	DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION	
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 TD, BPC	DESIGNED BY  DORJI KINLEY EXECUTIVE ENGINEER TD, BPC
DRAWING TITLE	REFER DRAWING	SCALE
DRAWING NO.	BPC/TD/TMD/GOMTU/SID	DATE
DWG # 16		REF DWG



BHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT

PROJECT TITLE

DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION

DRAWING STATUS

A

API

REFERENCE NOTES

1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS ANOTHERWISE 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

DORJI KINLEY
EXECUTIVE ENGINEER
ED. DRG

DRAWING TITLE

REFER DRAWING

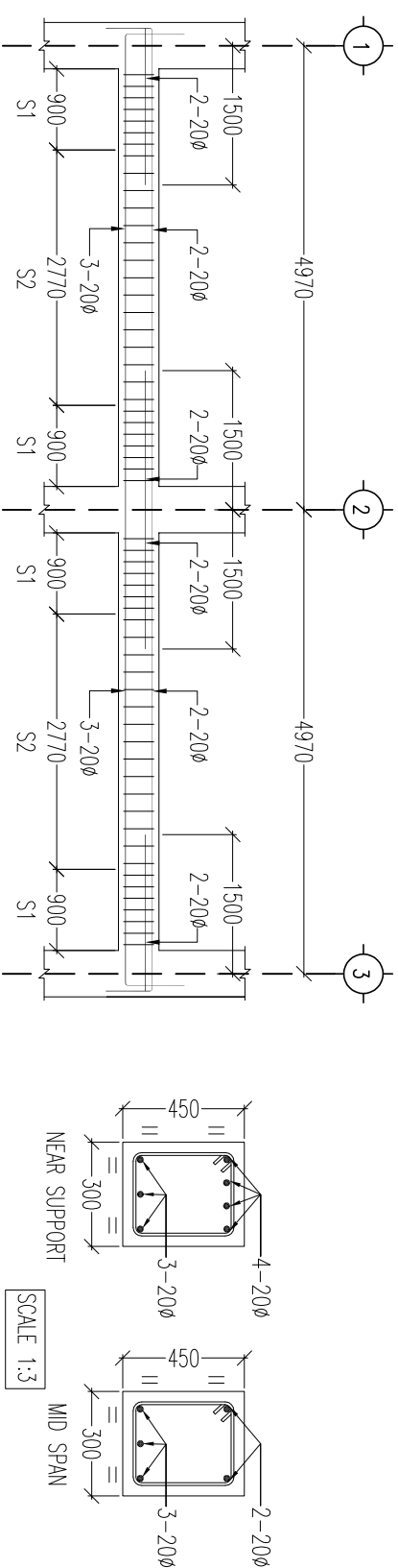
ALE

DATE _____

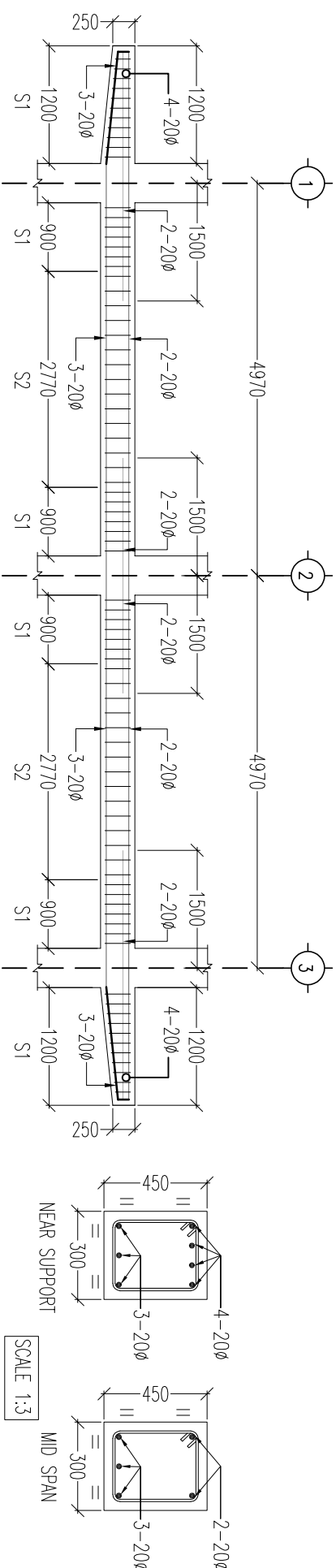
DRAWING NO.

BPC/TD/TMD/GOMTU/SD

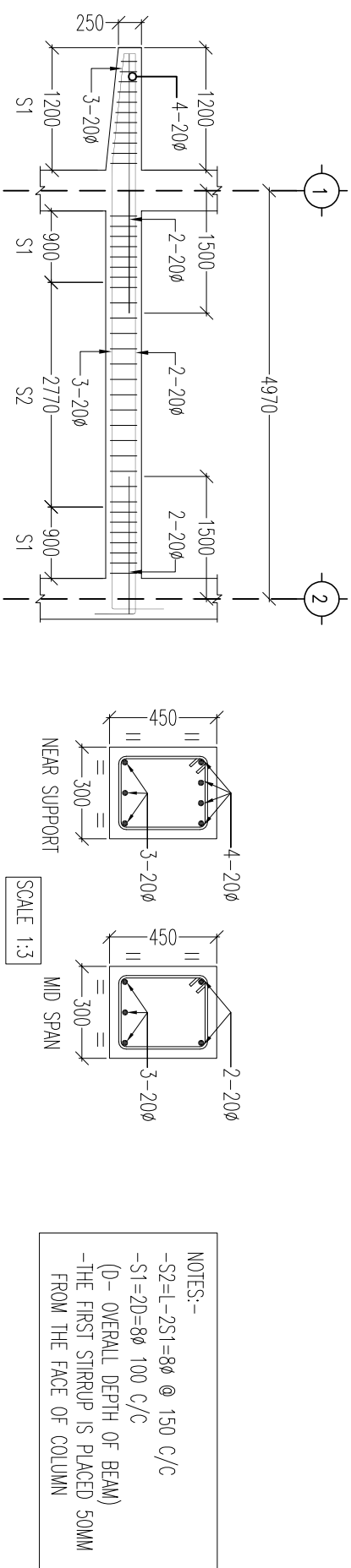
DWG # 17



SECOND FLOOR BEAM SECTION ALONG GRID - A & G



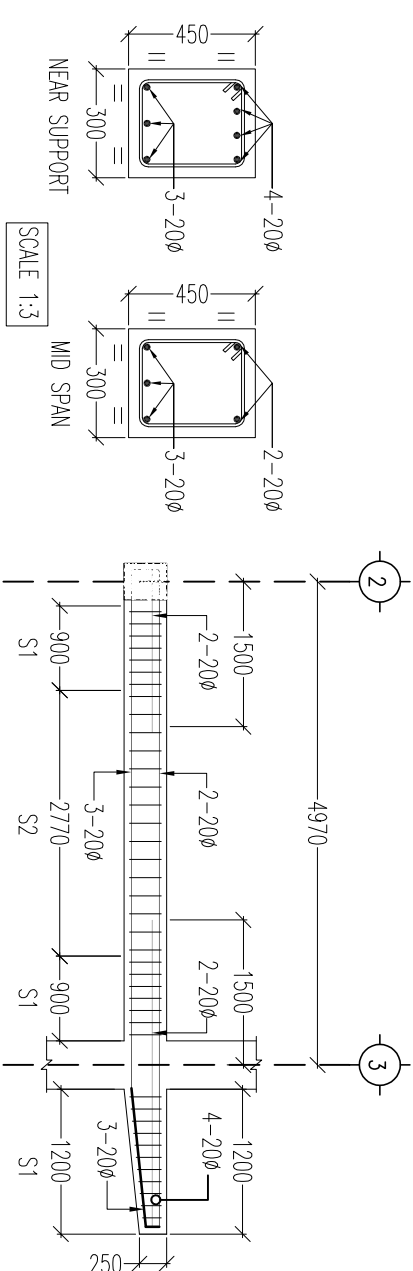
SECOND FLOOR BEAM SECTION ALONG GRID - B & F



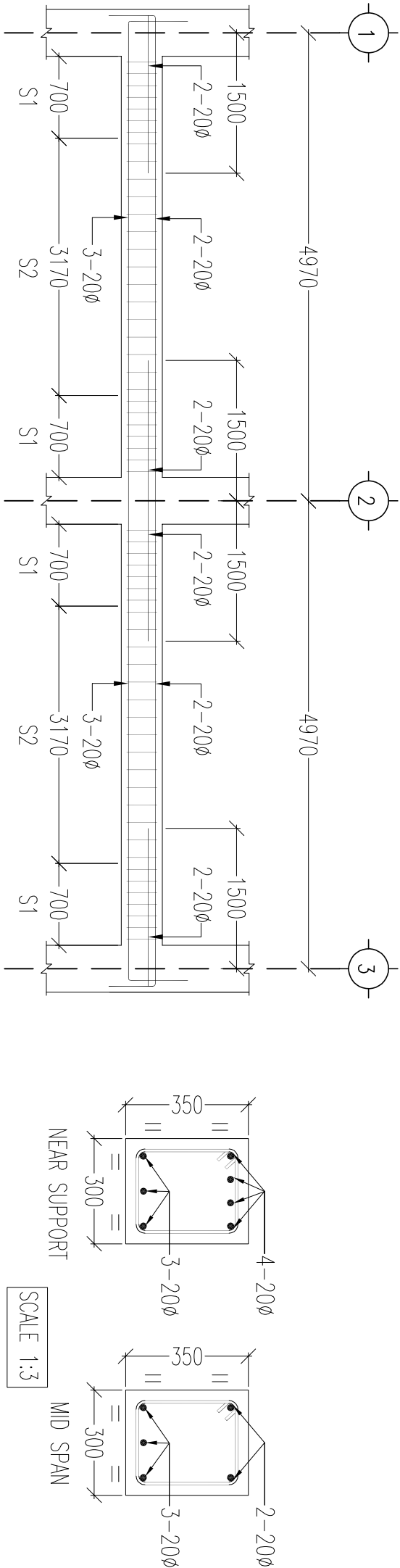
SECOND FLOOR BEAM SECTION ALONG GRID - C & E

NOTES:-

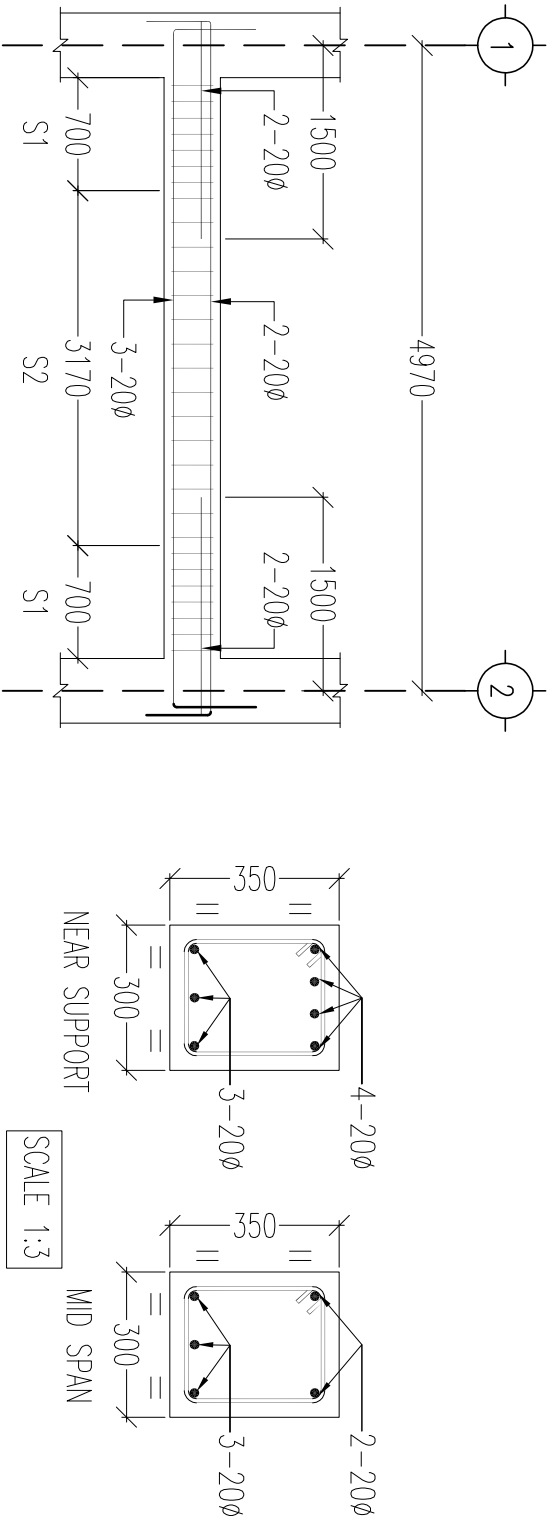
- S2=L-2S1=8Ø @ 150 C/C
- S1=2D=8Ø 100 C/C
- (D - OVERALL DEPTH OF BEAM)
- THE FIRST STIRRUP IS PLACED 50MM FROM THE FACE OF COLUMN



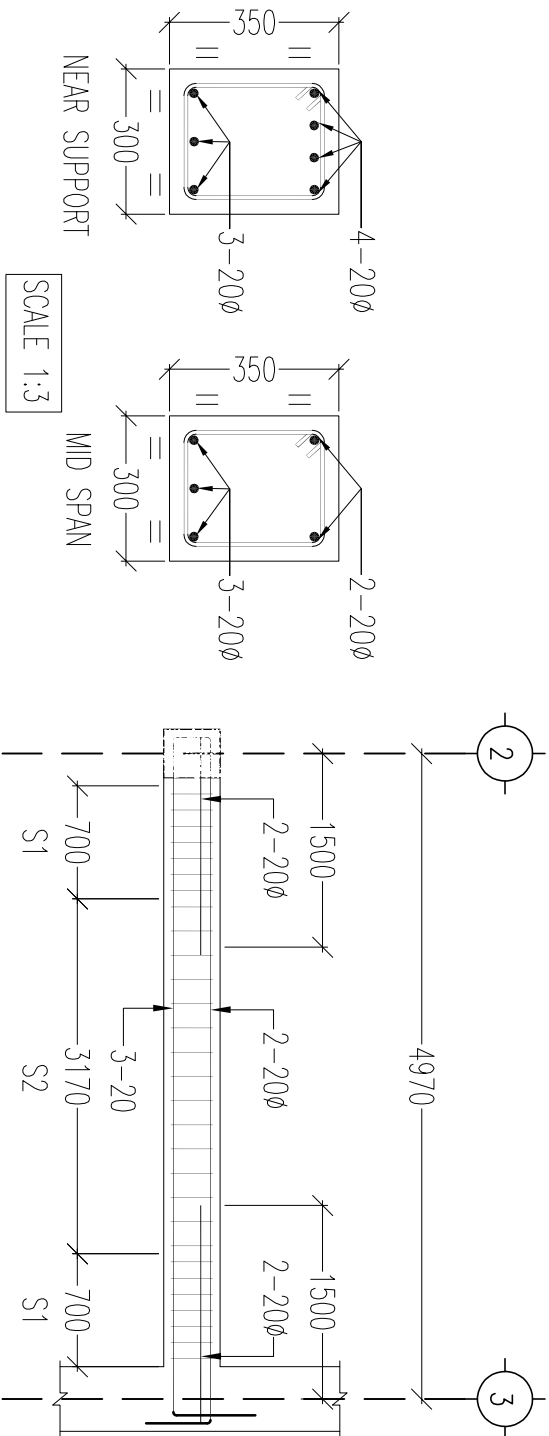
SECOND FLOOR BEAM SECTION ALONG GRID - D



ROOF BEAM SECTION ALONG GRID – A, B, F & G






ROOF BEAM SECTION ALONG GRID – C & E



ROOF BEAM SECTION ALONG GRID – D

NOTES:-
-S2=L-2S1=8ø @ 150 C/C
-S1=2D=8ø 100 C/C
(D- OVERALL DEPTH OF BEAM)
-THE FIRST STIRRUP IS PLACED 50MM FROM THE FACE OF COLUMN

 <div>BPC Bhutan Power Corporation Limited</div>	BHUTAN POWER CORPORATION LIMITED										
	TRANSMISSION DEPARTMENT										
	PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		
	DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		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		 DORJI KINLEY EXECUTIVE ENGINEER TD, BPC		BPC/TD/TMD/GOMTU/SID		
DRAWING STATUS		APPROVAL <input type="checkbox"/> APPROVED <input type="checkbox"/>				SCALE		DATE		DWG # 20	
						REF DWG		FEBRUARY, 2022			



BHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT

PROJECT TITLE

DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION

DRAWING STATUS

APPROVAL _____

APPROVED ☐

REFERENCE NOTES

1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS ANOTHERWISE 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

KUNZANG TOBYE
GENERAL MANAGER

DESIGNED BY

Principles

DORJI KINLEY
EXECUTIVE ENGINEER
FD, DRC

DRAFTING TITLE

REFER DR A WING

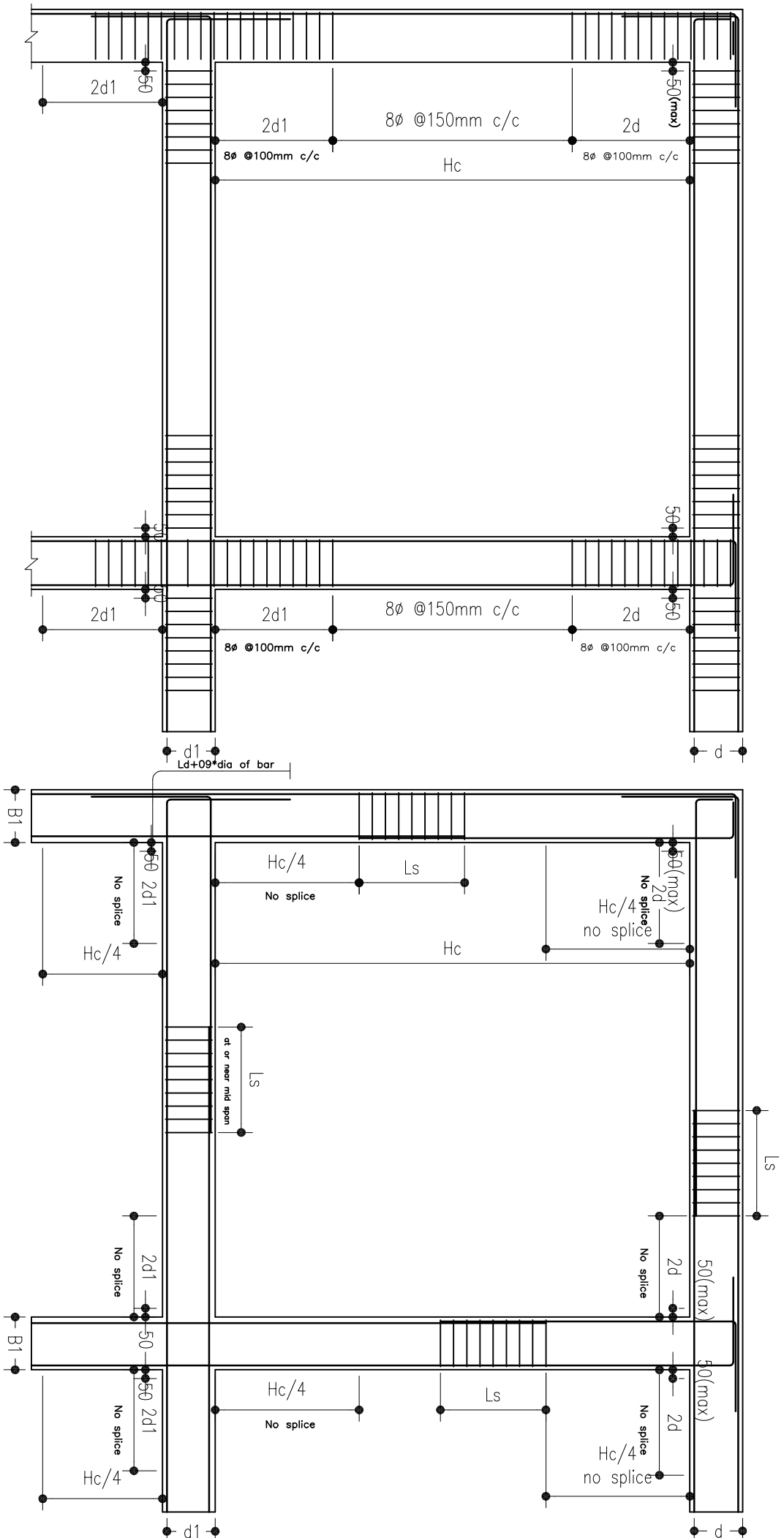
SCALE

DATE _____

DRAWING NO

3PC/TD/TMD/GOMTU/SD

DWG # 21



NOTE:

1. Not more than 50% of bars be spliced at one section.
2. Minimum length of splice shall be 57 times the diameter of the main bar.
3. Top reinforcement shall be placed at mid-span of beam.
4. Bottom reinforcement shall be spliced at distance of 2 times the depth of beam but shall be spliced at mid-span of the beam.
5. Stirrups spacing for the full length of splice shall not exceed 100mm c/c.
6. The first stirrup should be placed 50mm from the face of the column.
7. The length of stirrups in beams will not be less than 15d.

than the bar development length (L_d) = $\frac{57d}{\sigma_{yk}}$ Stirrups

2D \otimes \otimes

100c/c

S1808@

100%

LS (Splices) @ 80

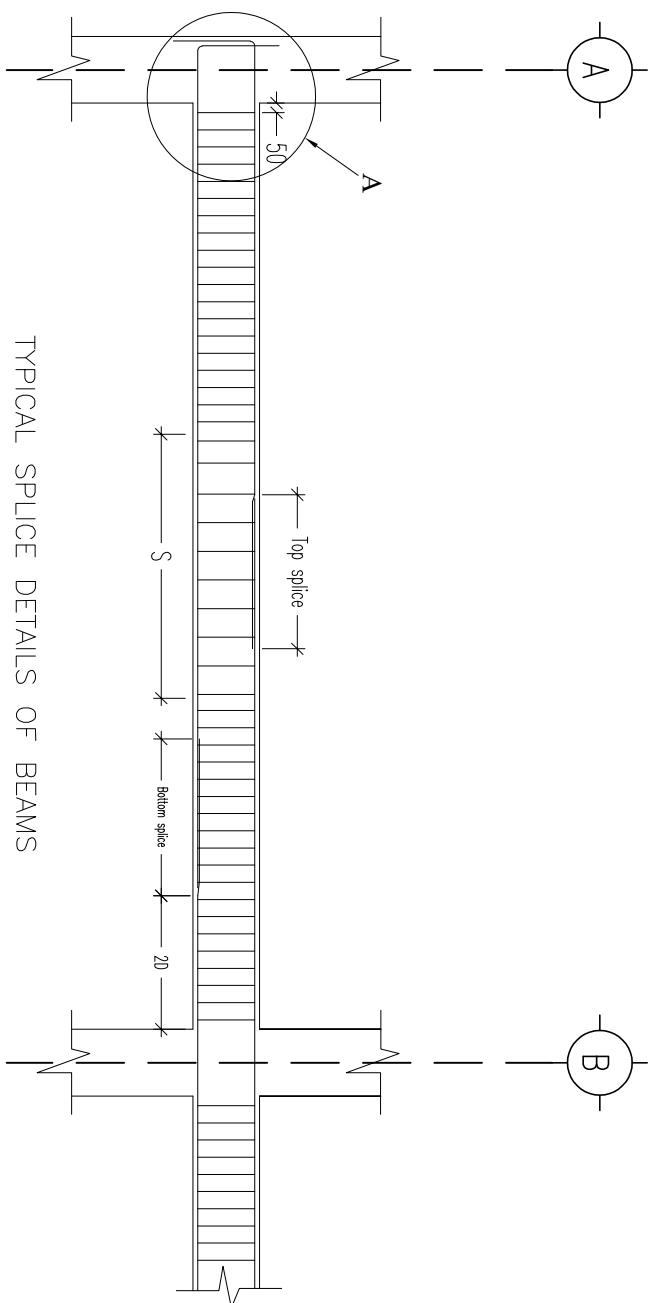
Bar Antibody length Bar Development length

~~S (where no splices)~~ ~~8bd)a~~

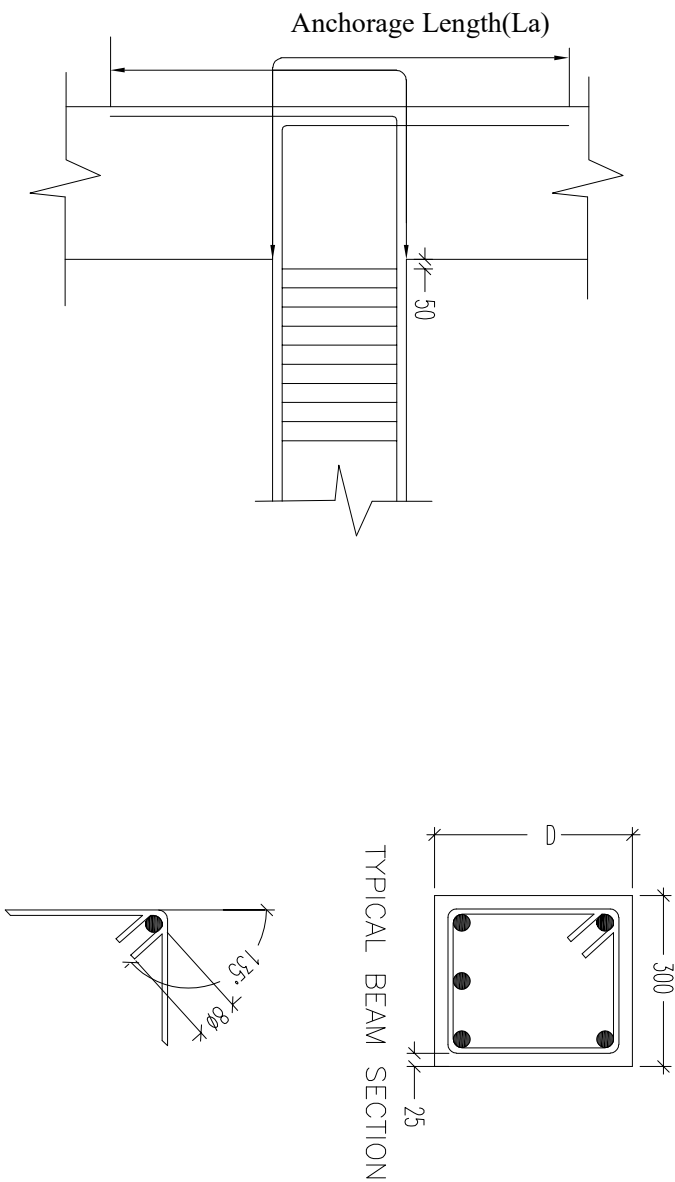
(Minimum length) (Minimum length)

$$10\phi = 670 \qquad 10\phi = 570$$
$$12\phi = 805 \qquad 12\phi = 685$$
$$16\phi = 1075 \qquad 16\phi = 915$$
$$20\emptyset = 1340 \qquad 20\emptyset = 1140$$
$$25\phi = 1675 \qquad 25\phi = 1425$$

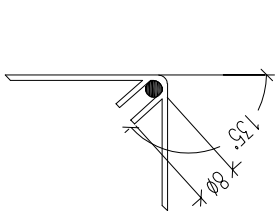
TYPICAL BEAM SPLICE AND ANCHORAGE DETAILS



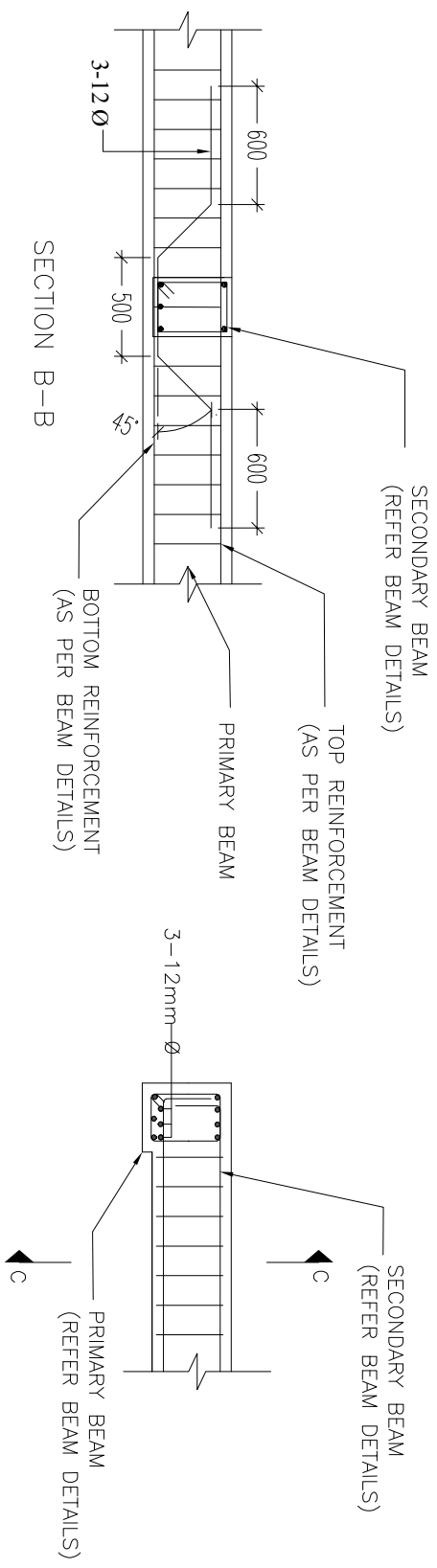
TYPICAL SPLICE DETAILS OF BEAMS



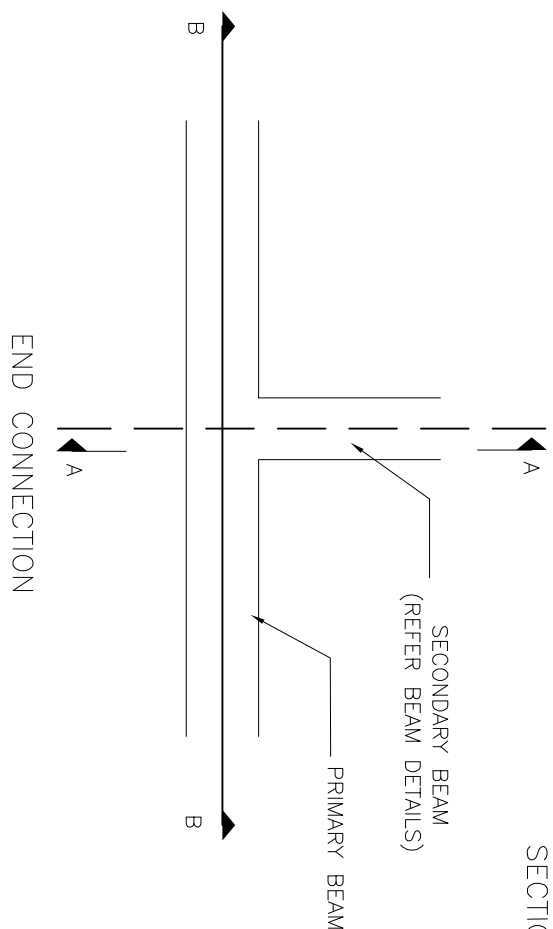
ANCHORAGE DETAILS AT -A






TYPICAL HOOK DETAILS

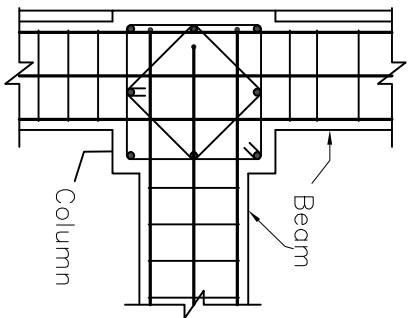


SECTION A-A

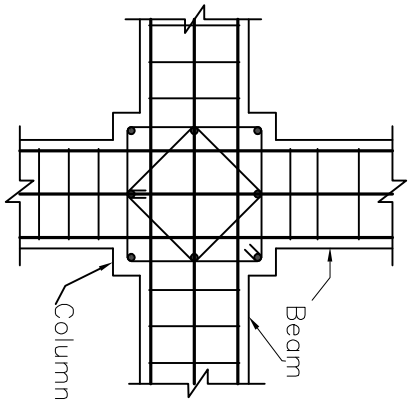


TYPICAL BEAM DETAIL OF SECONDARY BEAM TO PRIMARY BEAM CONNECTION (PLAN)

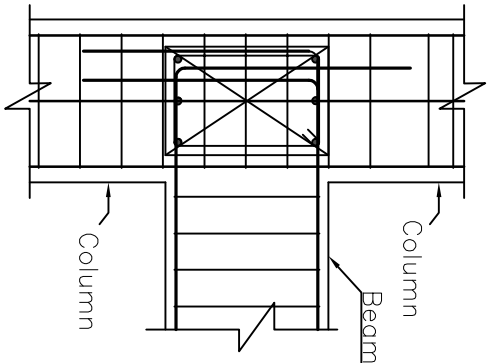
 		BHUTAN POWER CORPORATION LIMITED	
TRANSMISSION DEPARTMENT			
PROJECT TITLE		REFERENCE NOTES	
DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED	
DRAWING STATUS		APPROVED BY	
APPROVAL <input type="checkbox"/>	APPROVED <input type="checkbox"/>	DESIGNED BY	
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		DORJI KINLEY EXECUTIVE ENGINEER TD, BPC	
		DRAWING TITLE	
		REFER DRAWING	
SCALE		DATE	
REF DWG		FEBRUARY, 2022	
		DRAWING NO.	
		BPC/TD/TMD/GOMTU/SD	
		DWG # 22	



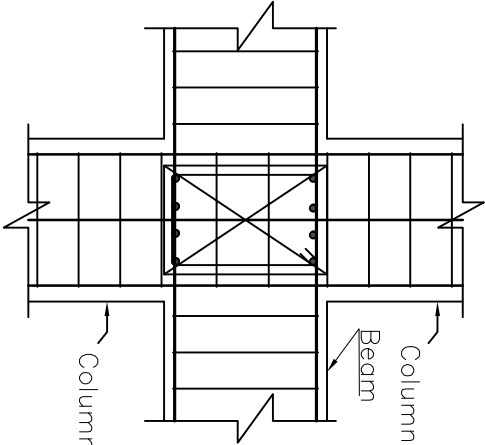
EXTERIOR, COLUMN-BEAM
JOINT(C/S)



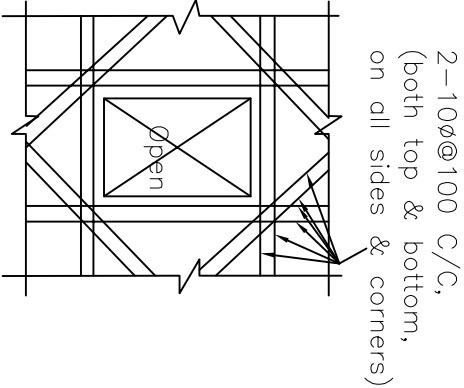
INTERIOR, COLUMN-BEAM
JOINT(PLAN)



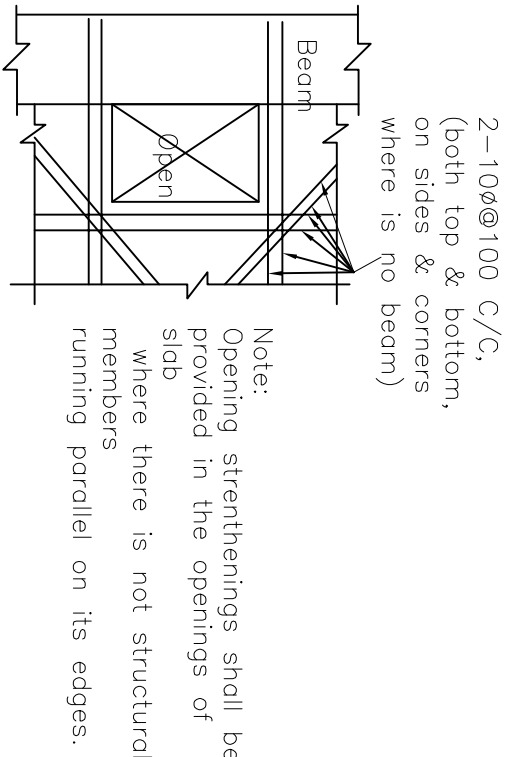
EXTERIOR, COLUMN-BEAM
JOINT(L/S)



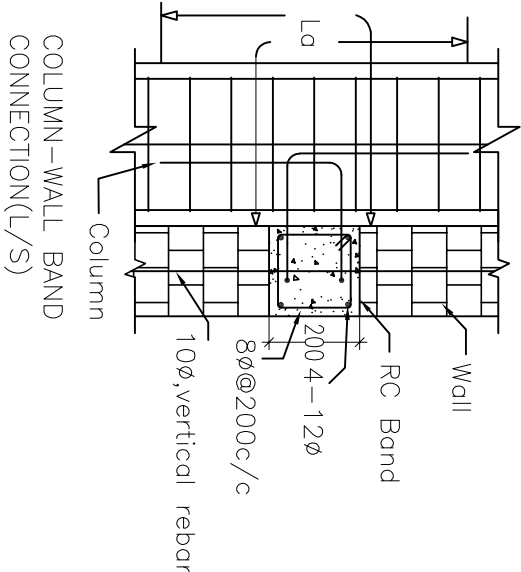
INTERIOR, COLUMN-BEAM
JOINT(L/S)



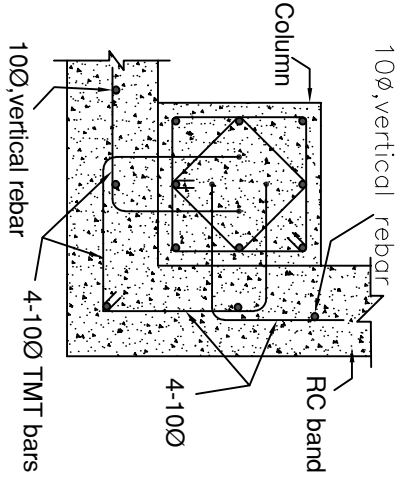
TYPICAL DETAIL FOR OPENING
IN
THE MIDDLE OF SLAB/RC WALL



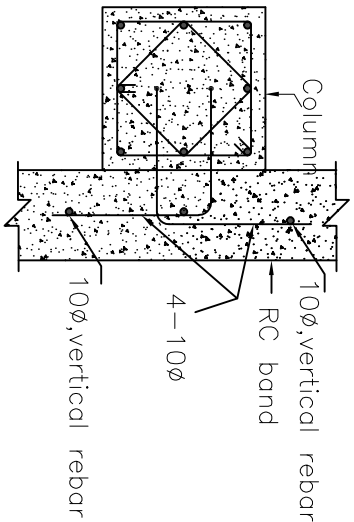
TYPICAL DETAIL FOR OPENING
NEAR BEAM/COLUMN



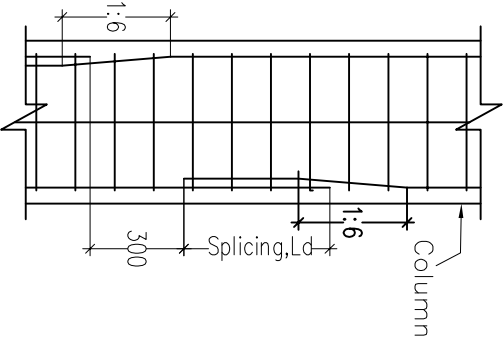
COLUMN-WALL BAND
CONNECTION(L/S)



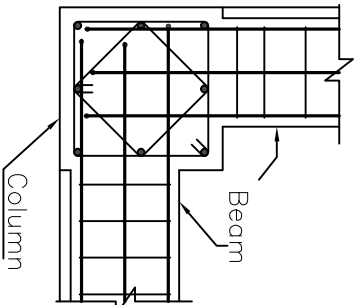
CORNER COLUMN-WALL BAND
CONNECTION (C/S)



INTERMEDIATE COLUMN-WALL
BAND CONNECTION(C/S)

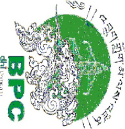


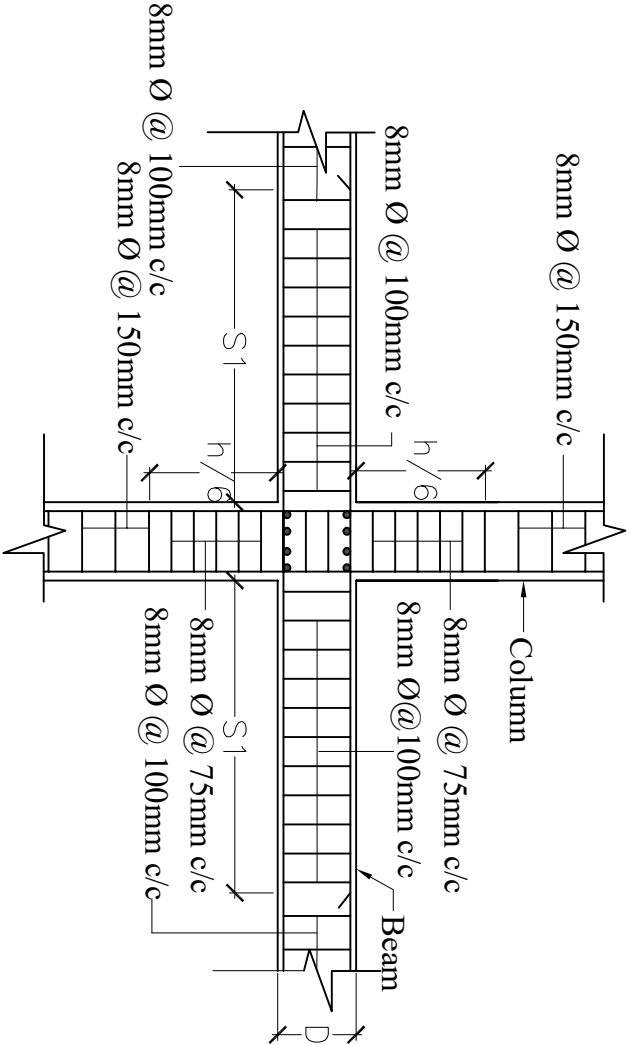
COLUMN LAP SPLICING
DETAIL(L/S)



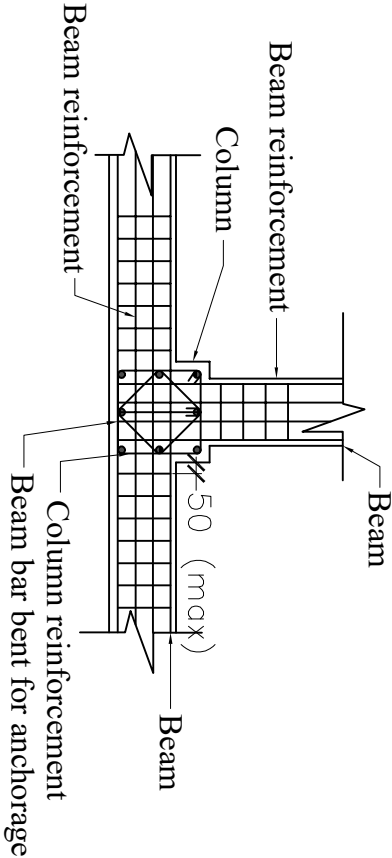
CORNER, COLUMN-BEAM
JOINT(C/S)

TYPICAL REINFORCEMENT DETAIL IN RC MEMBERS/ ELEMENTS/ JOINTS/ CUTS, ETC.

		BHUTAN POWER CORPORATION LIMITED		TRANSMISSION DEPARTMENT	
PROJECT TITLE		DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		DRAWING STATUS	
APPROVAL		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		KUNZANG TOBGYE GENERAL MANAGER TD, BPC		DORJI KINLEY EXECUTIVE ENGINEER TD, BPC	
APPROVED BY		DESIGNED BY		DRAWING TITLE	
SCALE		REFER DRAWING		DATE	
REF DWG		FEBRUARY, 2022		DRAWING NO.	
BPC/TD/TMD/GOMTU/SD		DWG # 23			

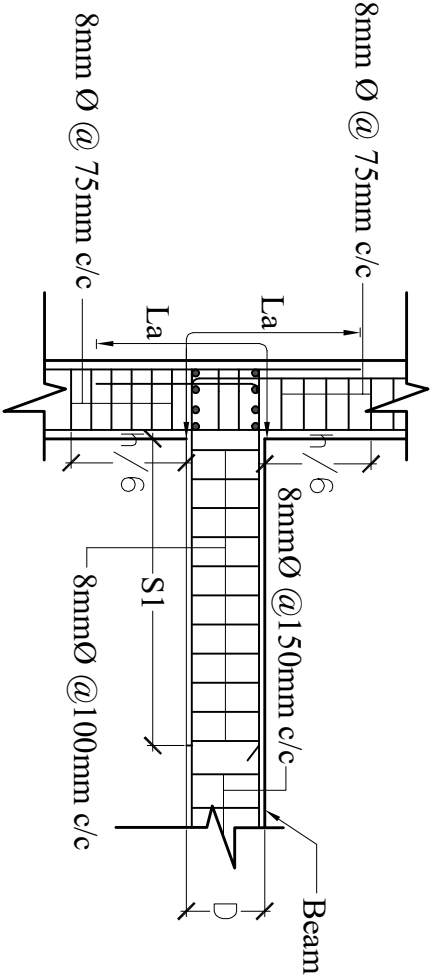


TYPICAL INTERIOR BEAM – COLUMN
CONNECTION DETAILS (SIDE VIEW)

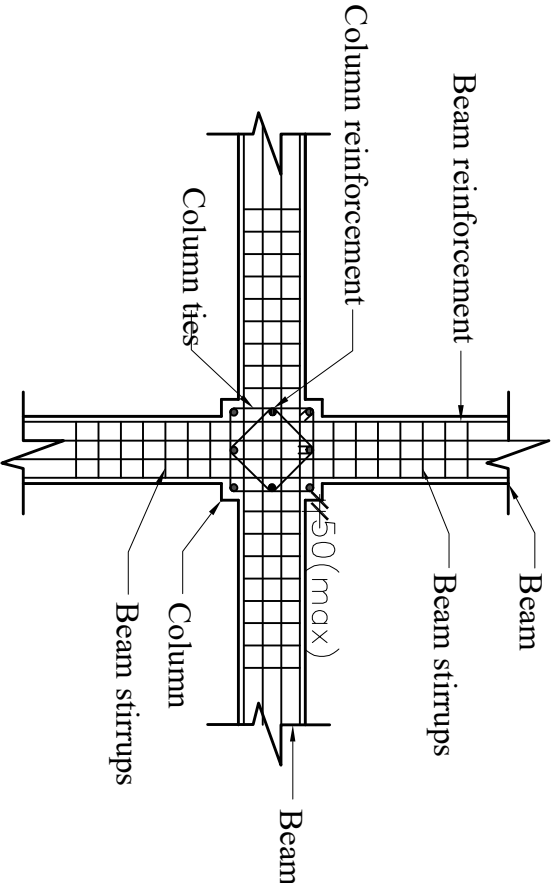


TYPICAL EXTERIOR BEAM – COLUMN
CONNECTION DETAILS (PLAN VIEW)
(SQUARE COLUMN)

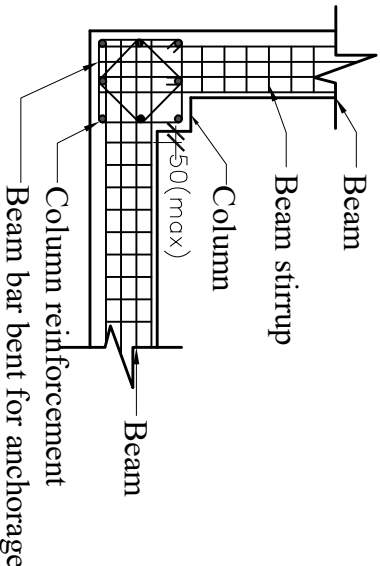
Bar Anchorage length (La) (Minimum length)	
10Ø =	670
12Ø =	805
16Ø =	1075
20Ø =	1340
25Ø =	1625



TYPICAL EXTERIOR BEAM – COLUMN
CONNECTION DETAILS (SIDE VIEW)




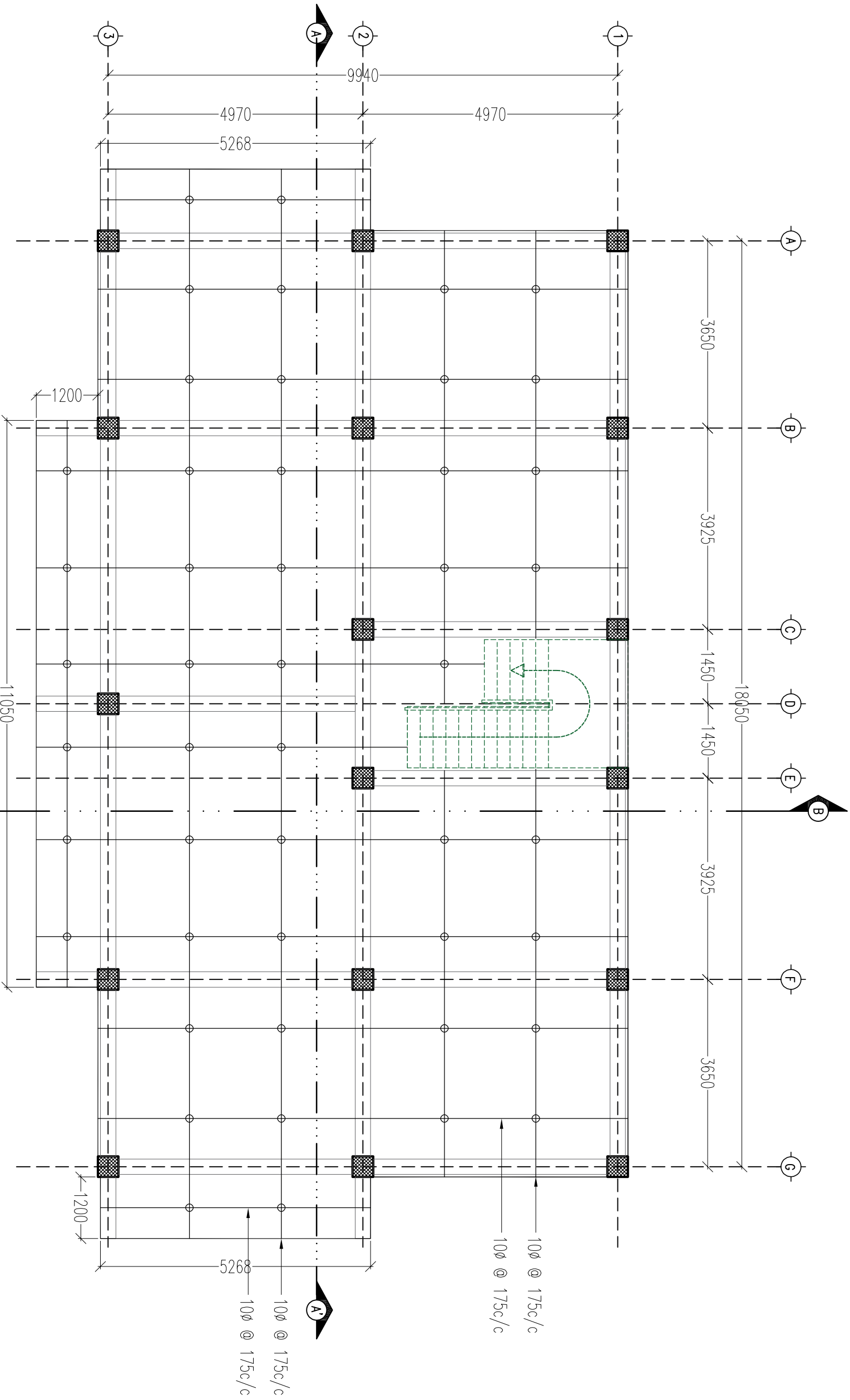
TYPICAL INTERIOR BEAM – COLUMN
CONNECTION DETAILS (PLAN VIEW)
(COLUMN)



TYPICAL EXTERIOR BEAM – COLUMN
CONNECTION DETAILS (PLAN VIEW)
(SQUARE COLUMN)

BEAM COLUMN CONNECTION DETAILS

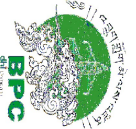
	BHUTAN POWER CORPORATION LIMITED																			
	TRANSMISSION DEPARTMENT				PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.					
					DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED		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		DORJI KINLEY EXECUTIVE ENGINEER TD, BPC		REFER DRAWING		BPC/TD/TMD/GOMTU/SID	
DRAWING STATUS				APPROVAL <input type="checkbox"/> <input type="checkbox"/>		APPROVED <input type="checkbox"/>						SCALE		DATE		DWG # 24				
												REF DWG		FEBRUARY, 2022						



FIRST FLOOR SLAB BOTTOM REINFORCEMENT AT LVL +3.60M

SLAB NOTES:-

1. SLAB THICKNESS=150MM
2. The main reinforcement shall be place at bottom in the shorter direction of the slab panel.
3. The starting distribution bar shall be place within the depth of slab or 1/2 the spacing of slab rebar.
4. The slab reinforcement shall extend wherever necessary for the cornice & slab project (refer cornice details).
5. Slab reinforcement curtailment shall be as shown above.
6. Minimum of 10Ø rebar chairs shall be provided at appropriate locations to maintain the effective depth of slab uniform
7. Minimum clear cover to slab & staircase reinforcement shall be 20mm



BHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT

PROJECT TITLE

DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION


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

KUNZANG TOBGYE
GENERAL MANAGER
TD, BPC

DESIGNED BY


DORJI KINLEY
EXECUTIVE ENGINEER
TD, BPC

DRAWING TITLE

SCALE

DRAWING NO.

DATE

BPC/TD/TMD/GOMTU/SD

DWG # 25

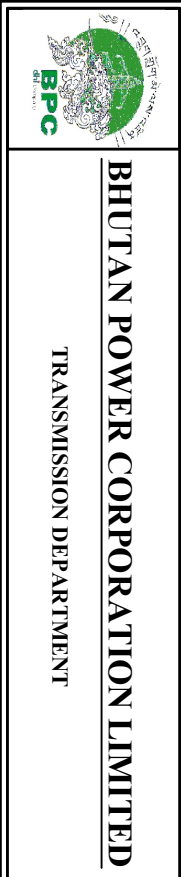
DRAWING STATUS

APPROVAL

APPROVED

REF DWG


FEBRUARY, 2022



PROJECT TITLE	
DESIGN OF STAFF QUARTER (G+2) AT GOMTI SUBSTATION	
DRAWING STATUS	<div> <div>APPROVAL</div> <div> <input type="checkbox"/> </div> </div> <div> <div>APPROVED</div> <div> <input type="checkbox"/> </div> </div>

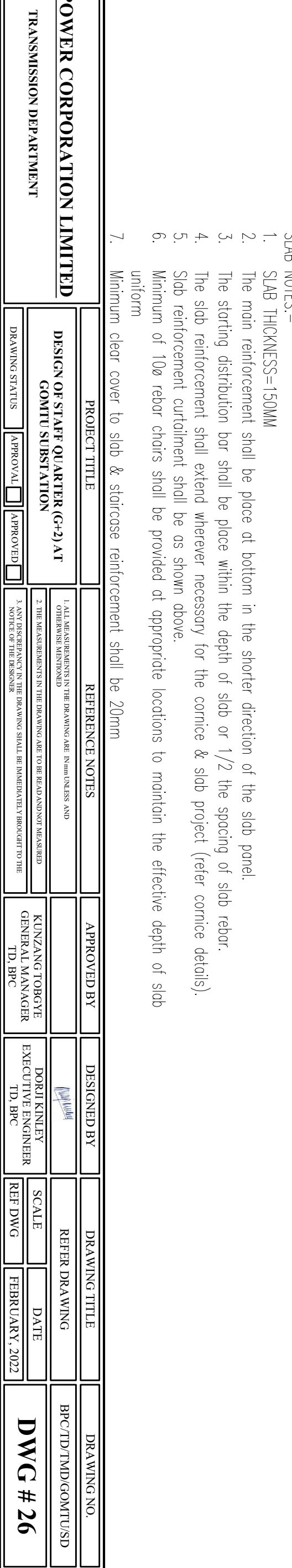
REFERENCE NOTES
1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED
2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED
3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER

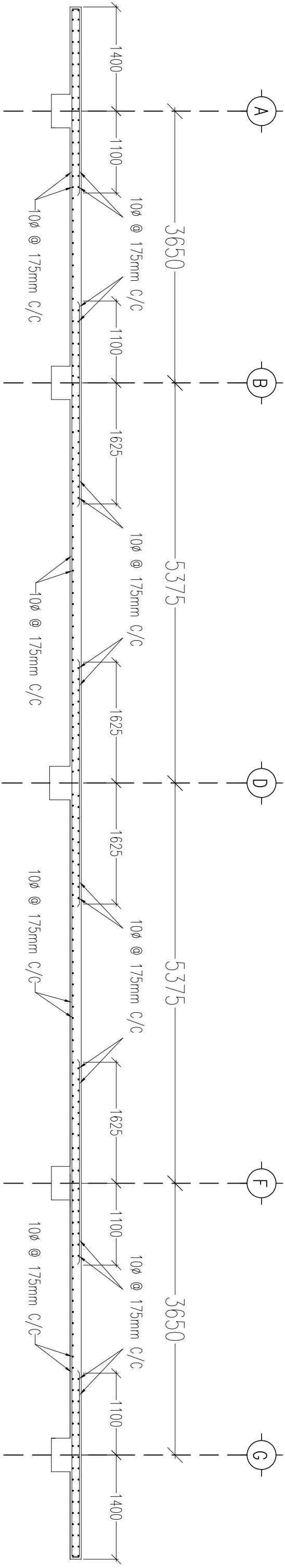
APPROVED BY
KUNZANG TOBGYE GENERAL MANAGER TD, BPC

DESIGNED BY	
DORJI KINLEY EXECUTIVE ENGINEER TD, BPC	

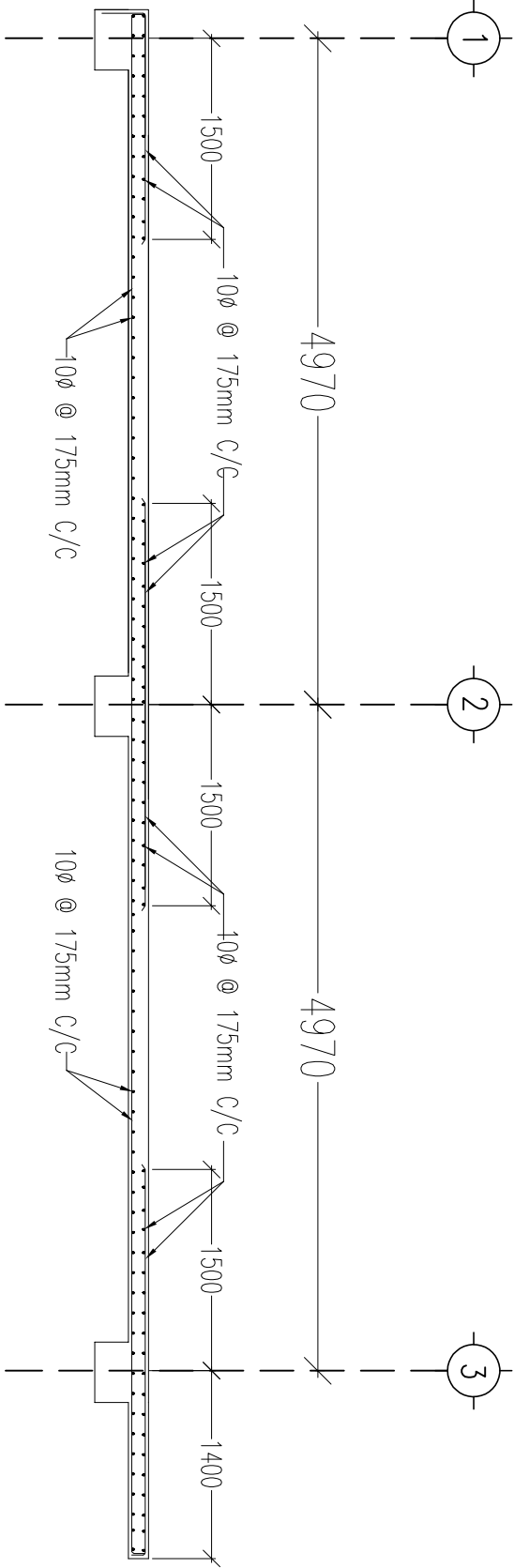
DRAWING TITLE	
REFER DRAWING	
SCALE	DATE
REF DWG	FEBRUARY, 2022

DRAWING NO.
BPC/TTD/TMD/GOMTU/SD
DWG # 26






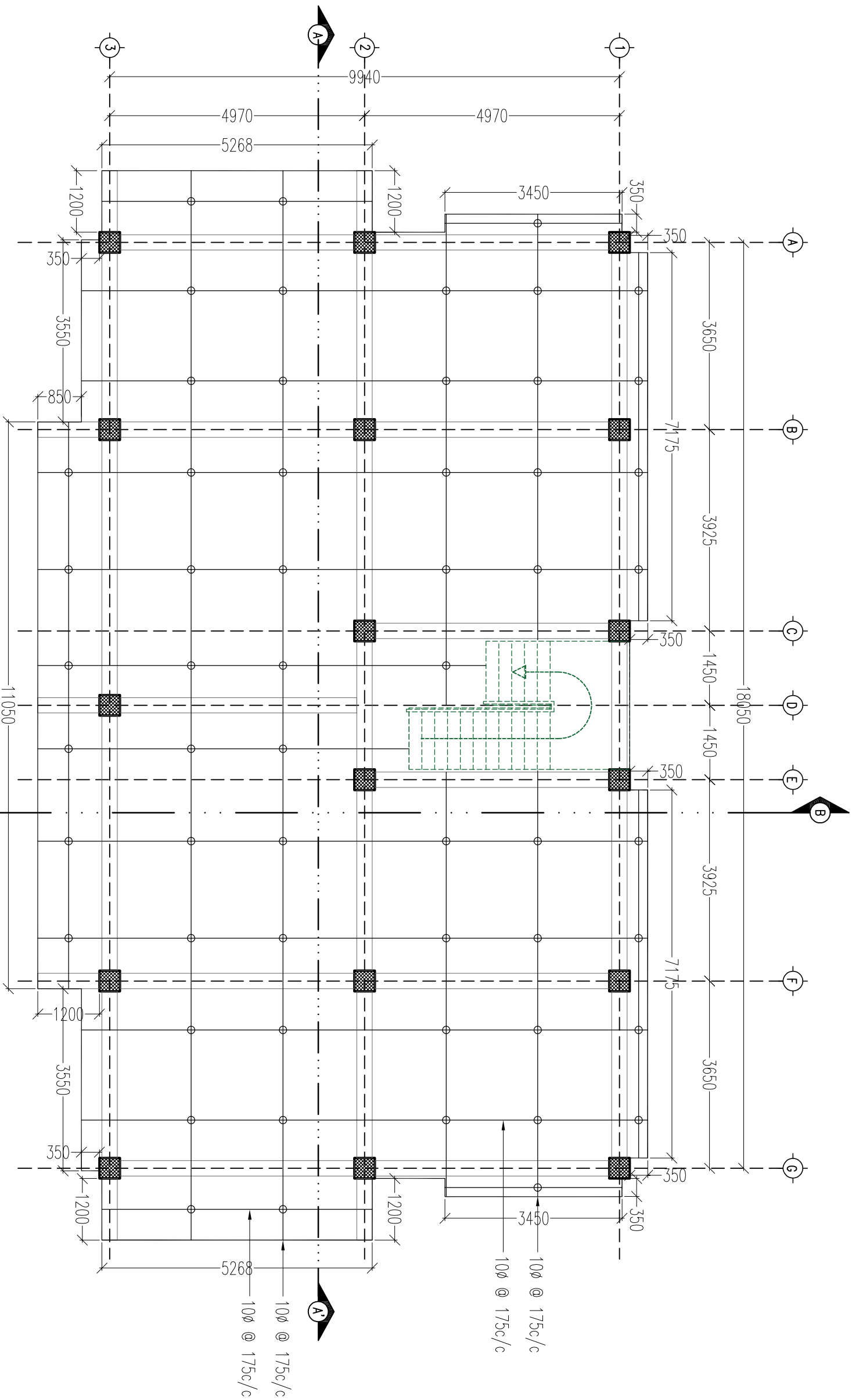
SECTION A-A



SECTION B-B

SLAB SECTION DETAILS FOR FIRST FLOOR SLAB

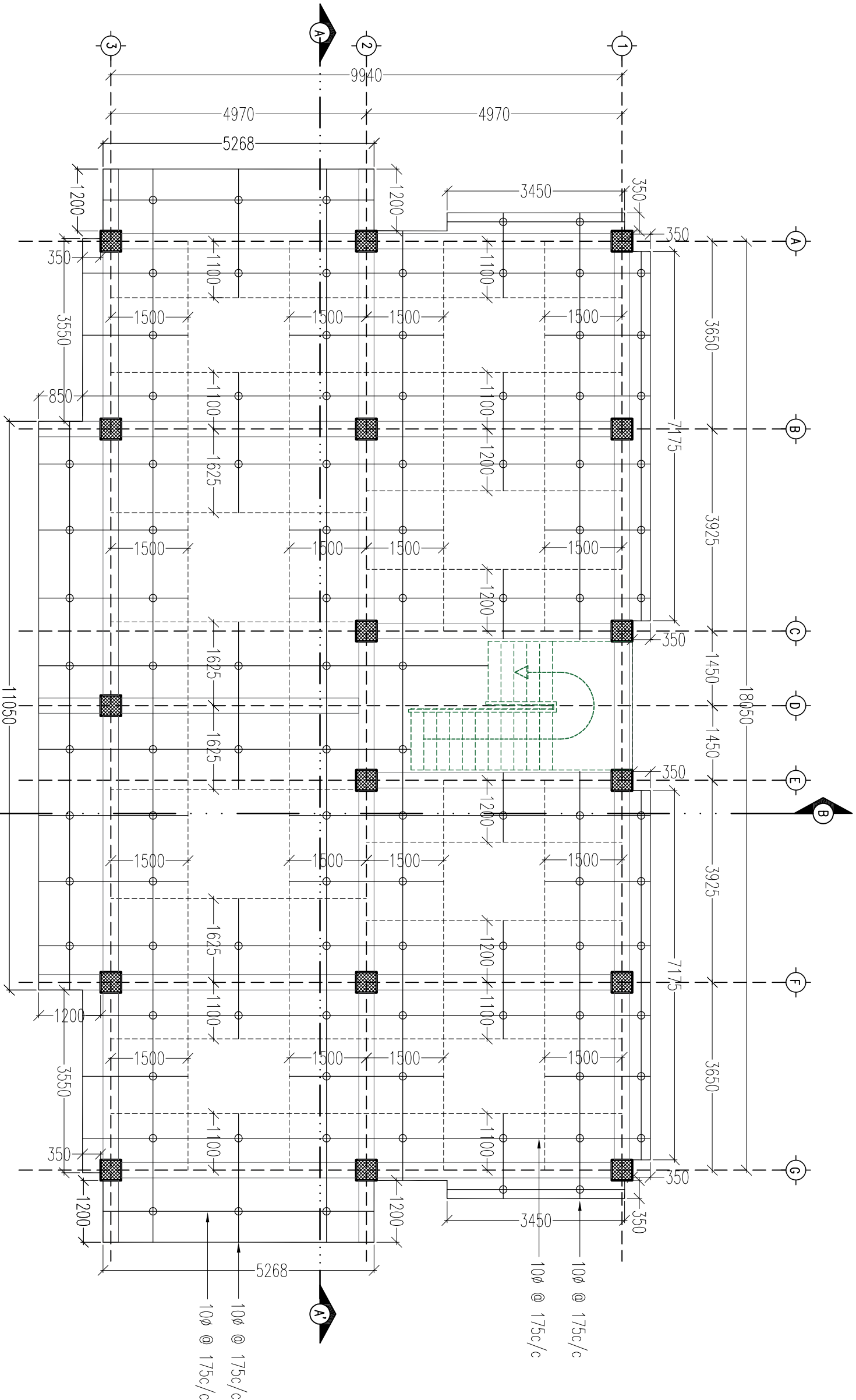
	PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
	BHUTAN POWER CORPORATION LIMITED		DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		KUNZANG TOBGYE TD, BPC				REFER DRAWING		BPC/TD/TMD/GOMTU/SD	
	TRANSMISSION DEPARTMENT		DRAWING STATUS		APPROVAL		EXECUTIVE ENGINEER		SCALE		DATE	
			<input type="checkbox"/> APPROVED				TD, BPC		REF DWG		FEBRUARY, 2022	



SECOND FLOOR SLAB BOTTOM REINFORCEMENT AT LVL +6.75M

SLAB NOTES:-

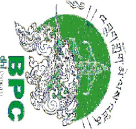
1. SLAB THICKNESS=150MM
2. The main reinforcement shall be place at bottom in the shorter direction of the slab panel.
3. The starting distribution bar shall be place within the depth of slab or 1/2 the spacing of slab rebar.
4. The slab reinforcement shall extend wherever necessary for the cornice & slab project (refer cornice details).
5. Slab reinforcement curtailment shall be as shown above.
6. Minimum of 10Ø rebar chairs shall be provided at appropriate locations to maintain the effective depth of slab uniform
7. Minimum clear cover to slab & staircase reinforcement shall be 20mm
8. Slab reinforcement shall be extended wherever necessary for the cornice projects (refer cornice rebar detail)



SECOND FLOOR SLAB TOP REINFORCEMENT AT LVL +6.75M

SLAB NOTES:-

1. SLAB THICKNESS=150MM
2. The main reinforcement shall be place at bottom in the shorter direction of the slab panel.
3. The starting distribution bar shall be place within the depth of slab or 1/2 the spacing of slab rebar.
4. The slab reinforcement shall extend wherever necessary for the cornice & slab project (refer cornice details).
5. Slab reinforcement curtailment shall be as shown above.
6. Minimum of 10Ø rebar chairs shall be provided at appropriate locations to maintain the effective depth of slab uniform
7. Minimum clear cover to slab & staircase reinforcement shall be 20mm
8. Slab reinforcement shall be extended wherever necessary for the cornice projects (refer cornice rebar detail)

		BHUTAN POWER CORPORATION LIMITED		TRANSMISSION DEPARTMENT	
PROJECT TITLE		REFERENCE NOTES		APPROVED BY	
DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		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		DESIGNED BY	
DRAWING STATUS		KUNZANG TOBGYE GENERAL MANAGER TD, BPC		DORJI KINLEY EXECUTIVE ENGINEER TD, BPC	
APPROVAL <input type="checkbox"/> APPROVED <input type="checkbox"/>		SCALE		REFER DRAWING	
		DATE		DRAWING TITLE	
		FEBRUARY, 2022		BPC/TD/TMD/GOMTU/SID	
		REF DWG		DWG # 29	



BHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT

PROJECT TITLE

DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION

DRAWING STATUS

APPRO

A

ED

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

DORJI KINLEY
EXECUTIVE ENGINEER

DRAWING TITLE

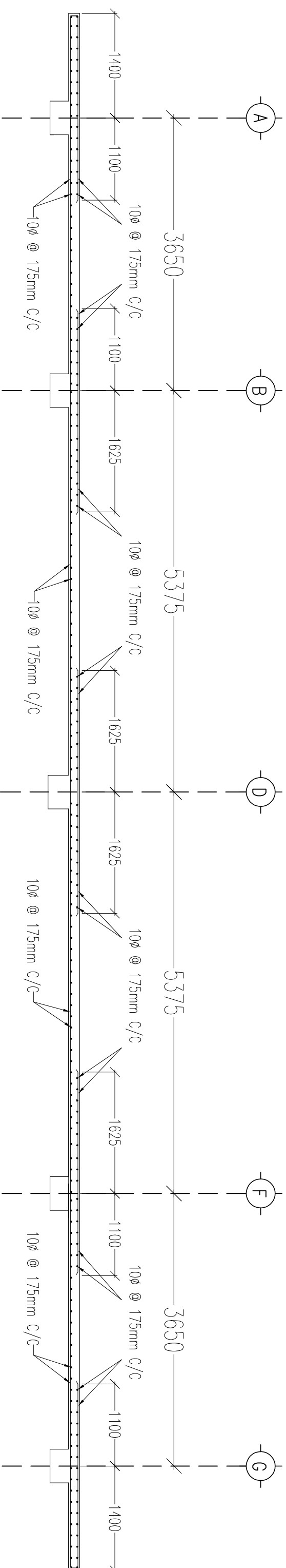
REFER DRAWING

DATE	NAME	AMOUNT	REMARKS
10/10/2023	Mr. A. B. C.	1000	Salary
10/11/2023	Mr. D. E. F.	500	Travel
10/12/2023	Mr. G. H. I.	200	Food
10/13/2023	Mr. J. K. L.	300	Medical
10/14/2023	Mr. M. N. O.	150	Transport
10/15/2023	Mr. P. Q. R.	100	Utilities
10/16/2023	Mr. S. T. U.	250	Insurance
10/17/2023	Mr. V. W. X.	180	Education
10/18/2023	Mr. Y. Z. A.	120	Entertainment
10/19/2023	Mr. B. C. D.	90	Shopping
10/20/2023	Mr. E. F. G.	70	Healthcare
10/21/2023	Mr. H. I. J.	60	Travel
10/22/2023	Mr. K. L. M.	50	Food
10/23/2023	Mr. N. O. P.	40	Medical
10/24/2023	Mr. Q. R. S.	30	Transport
10/25/2023	Mr. T. U. V.	20	Utilities
10/26/2023	Mr. W. X. Y.	10	Insurance
10/27/2023	Mr. Z. A. B.	5	Education
10/28/2023	Mr. C. D. E.	2	Entertainment
10/29/2023	Mr. F. G. H.	1	Shopping
10/30/2023	Mr. I. J. K.	0	Healthcare
10/31/2023	Mr. L. M. N.	0	Travel
10/32/2023	Mr. O. P. Q.	0	Food
10/33/2023	Mr. R. S. T.	0	Medical
10/34/2023	Mr. U. V. W.	0	Transport
10/35/2023	Mr. X. Y. Z.	0	Utilities
10/36/2023	Mr. A. B. C.	0	Insurance
10/37/2023	Mr. D. E. F.	0	Education
10/38/2023	Mr. G. H. I.	0	Entertainment
10/39/2023	Mr. J. K. L.	0	Shopping
10/40/2023	Mr. M. N. O.	0	Healthcare
10/41/2023	Mr. P. Q. R.	0	Travel
10/42/2023	Mr. S. T. U.	0	Food
10/43/2023	Mr. V. W. X.	0	Medical
10/44/2023	Mr. Y. Z. A.	0	Transport
10/45/2023	Mr. B. C. D.	0	Utilities
10/46/2023	Mr. E. F. G.	0	Insurance
10/47/2023	Mr. H. I. J.	0	Education
10/48/2023	Mr. K. L. M.	0	Entertainment
10/49/2023	Mr. N. O. P.	0	Shopping
10/50/2023	Mr. Q. R. S.	0	Healthcare
10/51/2023	Mr. T. U. V.	0	Travel
10/52/2023	Mr. W. X. Y.	0	Food
10/53/2023	Mr. Z. A. B.	0	Medical
10/54/2023	Mr. C. D. E.	0	Transport
10/55/2023	Mr. F. G. H.	0	Utilities
10/56/2023	Mr. I. J. K.	0	Insurance
10/57/2023	Mr. L. M. N.	0	Education
10/58/2023	Mr. O. P. Q.	0	Entertainment
10/59/2023	Mr. R. S. T.	0	Shopping
10/60/2023	Mr. U. V. W.	0	Healthcare
10/61/2023	Mr. X. Y. Z.	0	Travel
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10/65/2023	Mr. J. K. L.	0	Utilities
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10/67/2023	Mr. P. Q. R.	0	Education
10/68/2023	Mr. S. T. U.	0	Entertainment
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10/73/2023	Mr. H. I. J.	0	Medical
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10/76/2023	Mr. Q. R. S.	0	Insurance
10/77/2023	Mr. T. U. V.	0	Education
10/78/2023	Mr. W. X. Y.	0	Entertainment
10/79/2023	Mr. Z. A. B.	0	Shopping
10/80/2023	Mr. C. D. E.	0	Healthcare
10/81/2023	Mr. F. G. H.	0	Travel
10/82/2023	Mr. I. J. K.	0	Food
10/83/2023	Mr. L. M. N.	0	Medical
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10/85/2023	Mr. R. S. T.	0	Utilities
10/86/2023	Mr. U. V. W.	0	Insurance
10/87/2023	Mr. X. Y. Z.	0	Education
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10/89/2023	Mr. D. E. F.	0	Shopping

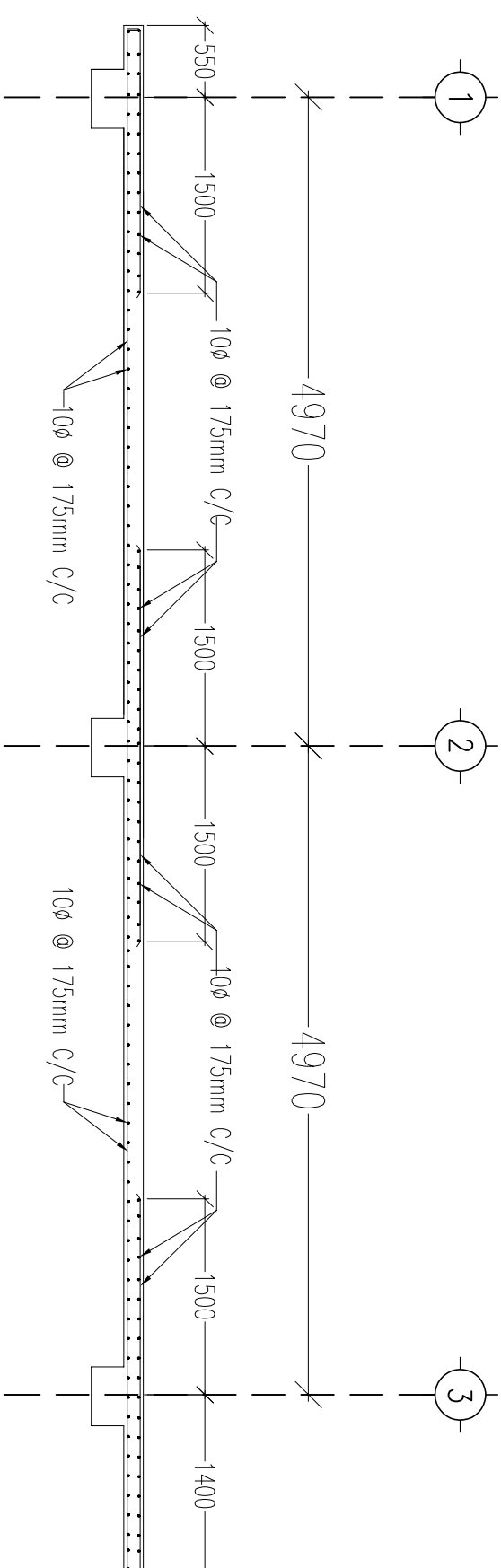
DRAWING NO

BPC/TD/TMD/GOMTU/SD

DWG # 30

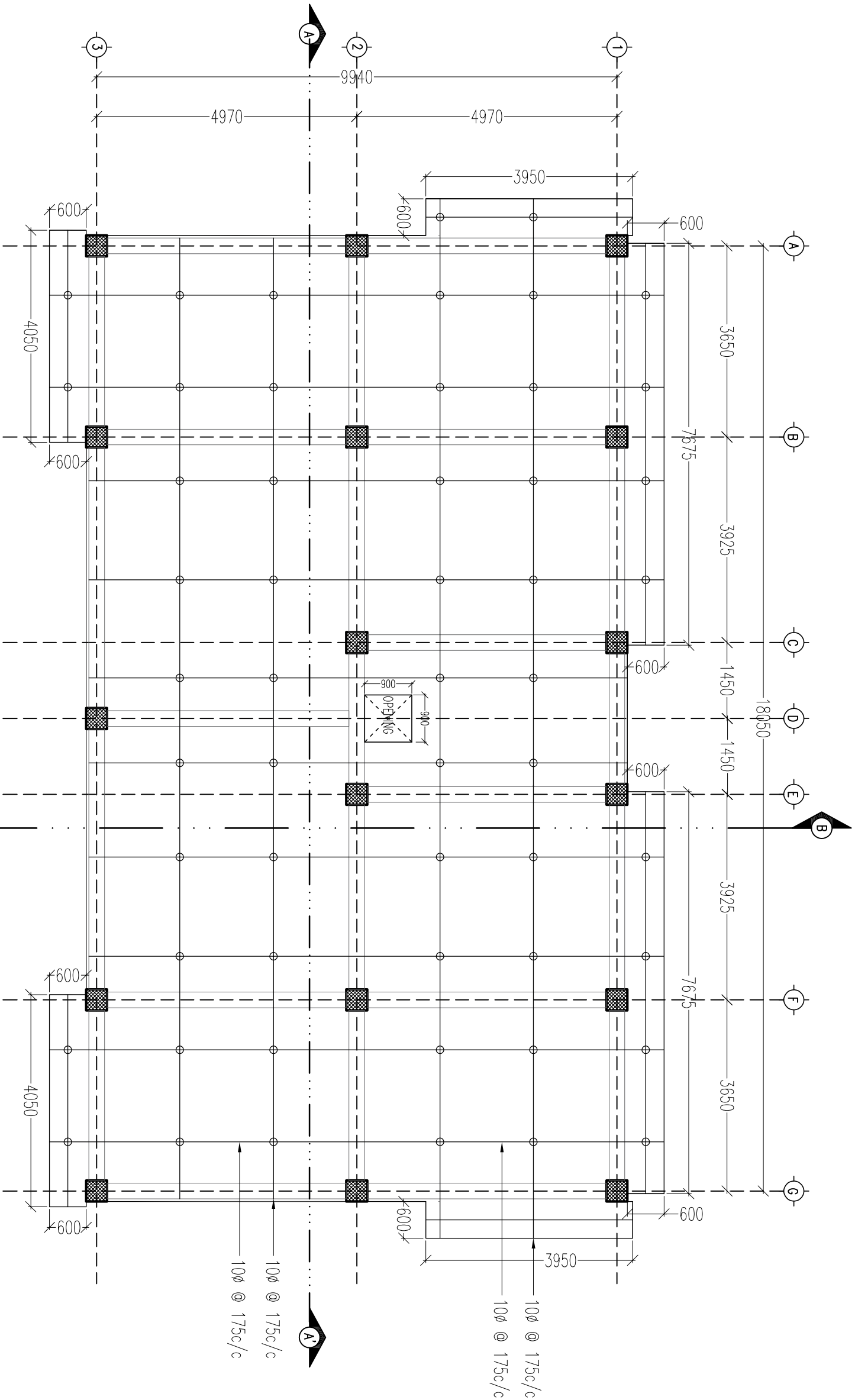


SECTION A-A



SECTION B-B


SLAB SECTION DETAILS FOR SECOND FLOOR SLAB

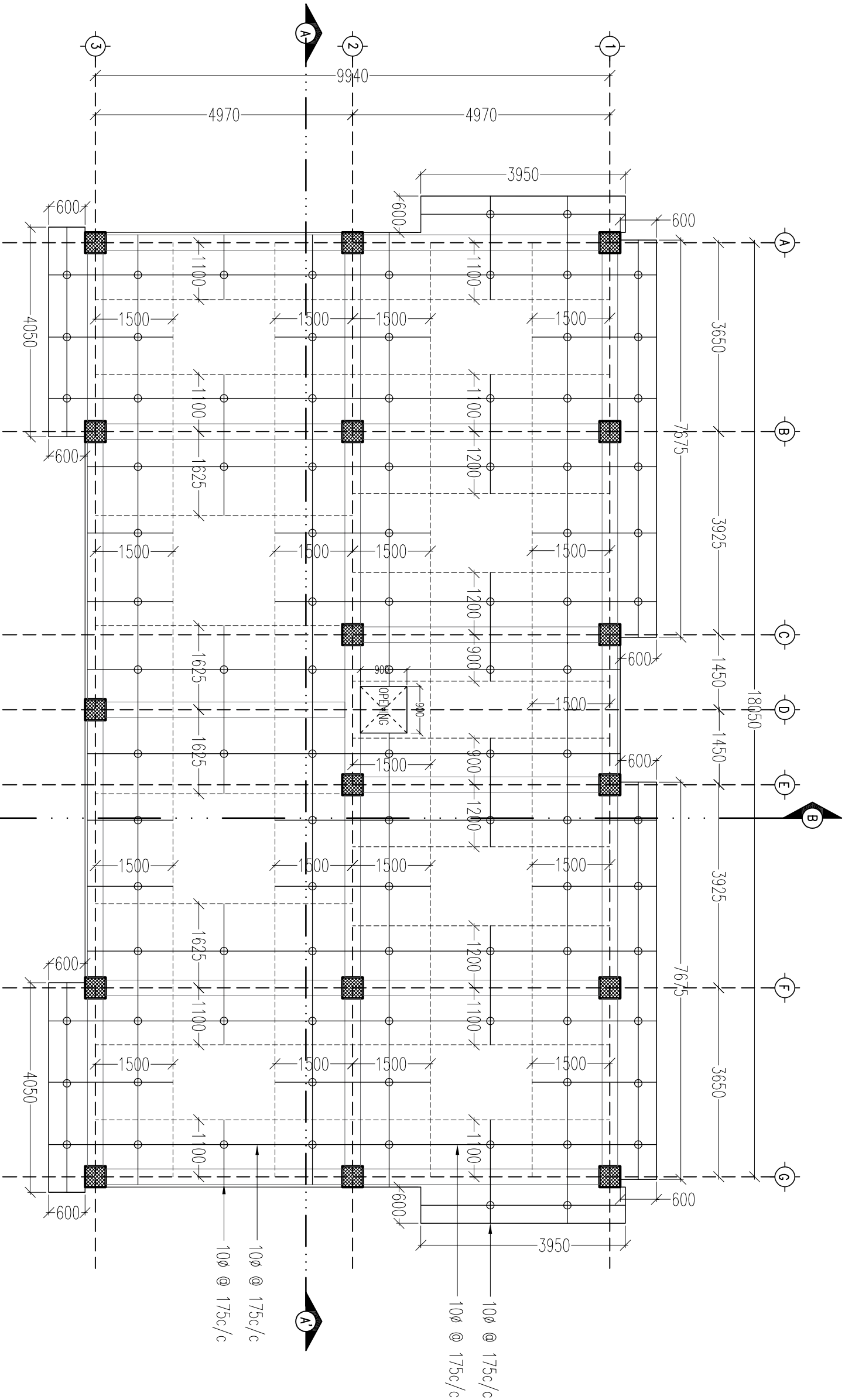


ROOF FLOOR SLAB BOTTOM REINFORCEMENT AT LVL +9.90M

SLAB NOTES:-

1. SLAB THICKNESS=150MM
2. The main reinforcement shall be place at bottom in the shorter direction of the slab panel.
3. The starting distribution bar shall be place within the depth of slab or 1/2 the spacing of slab rebar.
4. The slab reinforcement shall extend wherever necessary for the cornice & slab project (refer cornice details).
5. Slab reinforcement curtailment shall be as shown above.
6. Minimum of 10Ø rebar chairs shall be provided at appropriate locations to maintain the effective depth of slab uniform
7. Minimum clear cover to slab & staircase reinforcement shall be 20mm
8. Slab reinforcement shall be extended wherever necessary for the cornice projects (refer cornice rebar detail)



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TRANSMISSION DEPARTMENT											
PROJECT TITLE		DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION									
DRAWING STATUS		APPROVAL <input type="checkbox"/>		APPROVED <input type="checkbox"/>							
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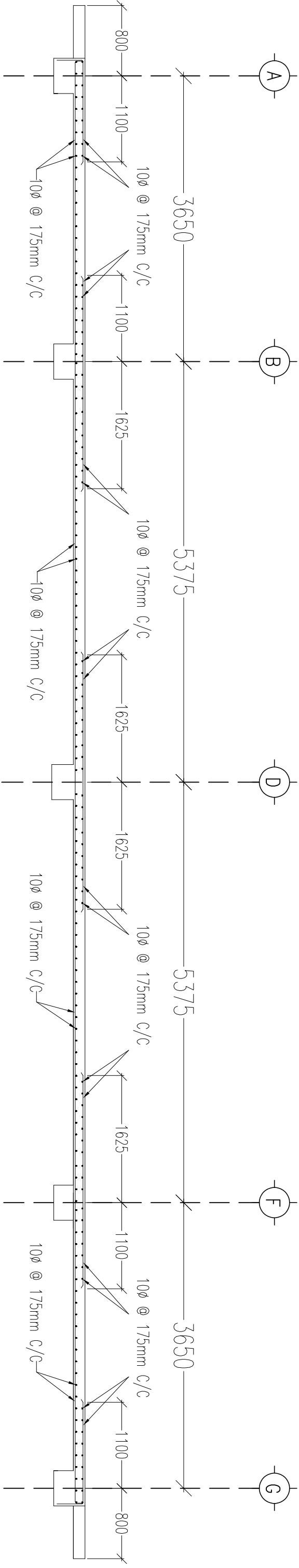


ROOF FLOOR SLAB TOP REINFORCEMENT AT LVL +9.90M

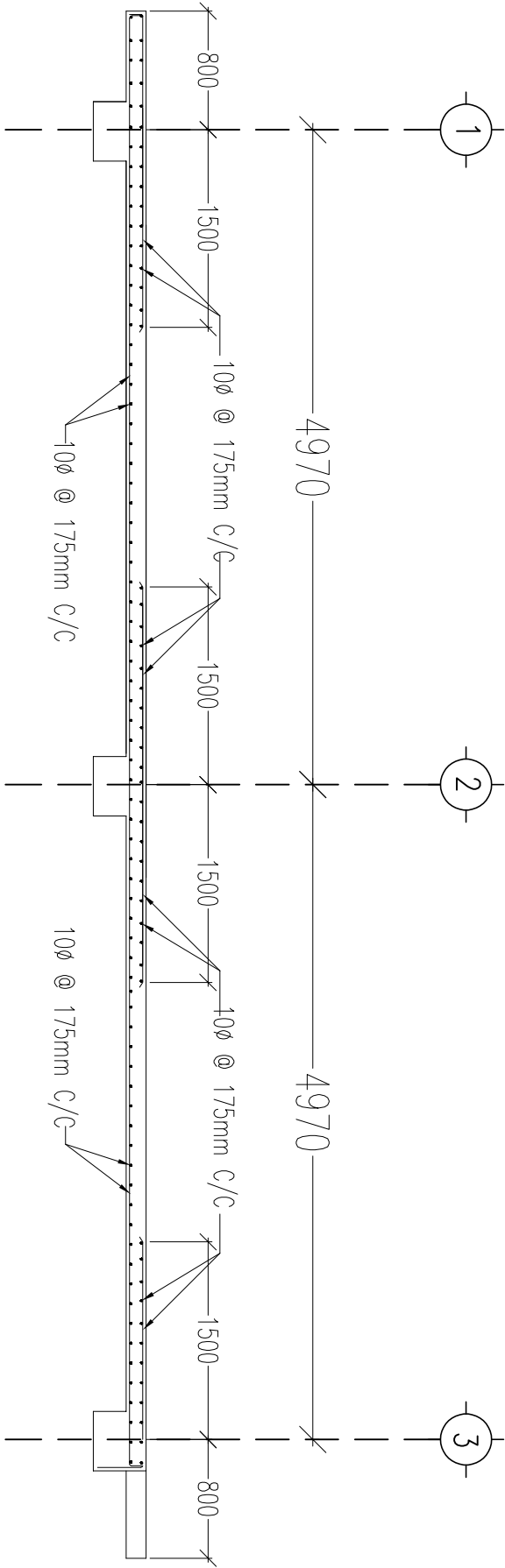
SLAB NOTES:-

1. SLAB THICKNESS=150MM
2. The main reinforcement shall be place at bottom in the shorter direction of the slab panel.
3. The starting distribution bar shall be place within the depth of slab or 1/2 the spacing of slab rebar.
4. The slab reinforcement shall extend wherever necessary for the cornice & slab project (refer cornice details).
5. Slab reinforcement curtailment shall be as shown above.
6. Minimum of 10ø rebar chairs shall be provided at appropriate locations to maintain the effective depth of slab uniform
7. Minimum clear cover to slab & staircase reinforcement shall be 20mm
8. Slab reinforcement shall be extended wherever necessary for the cornice projects (refer cornice rebar detail)

	BHUTAN POWER CORPORATION LIMITED										
	TRANSMISSION DEPARTMENT										
	PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		
	DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		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		 DORJI KINLEY EXECUTIVE ENGINEER TD, BPC		BPC/TD/TMD/GOMTU/SID		
DRAWING STATUS		APPROVAL <input type="checkbox"/>		APPROVED <input type="checkbox"/>		SCALE		DATE		DWG # 32	
						REF DWG		FEBRUARY, 2022			





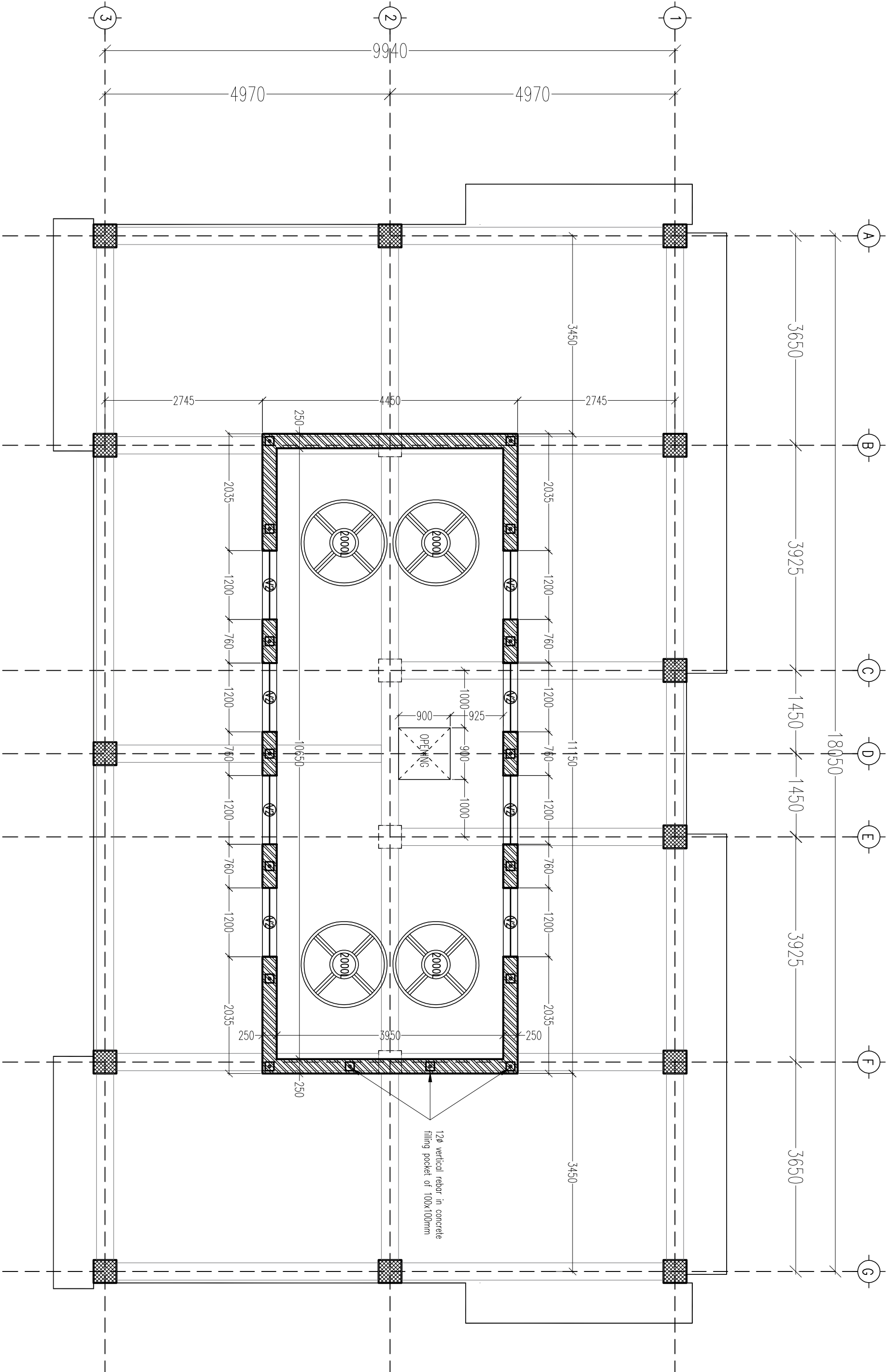
SECTION A-A



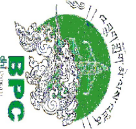
SECTION B-B

SLAB SECTION DETAILS FOR ROOF FLOOR SLAB

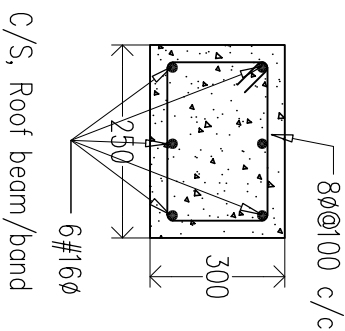
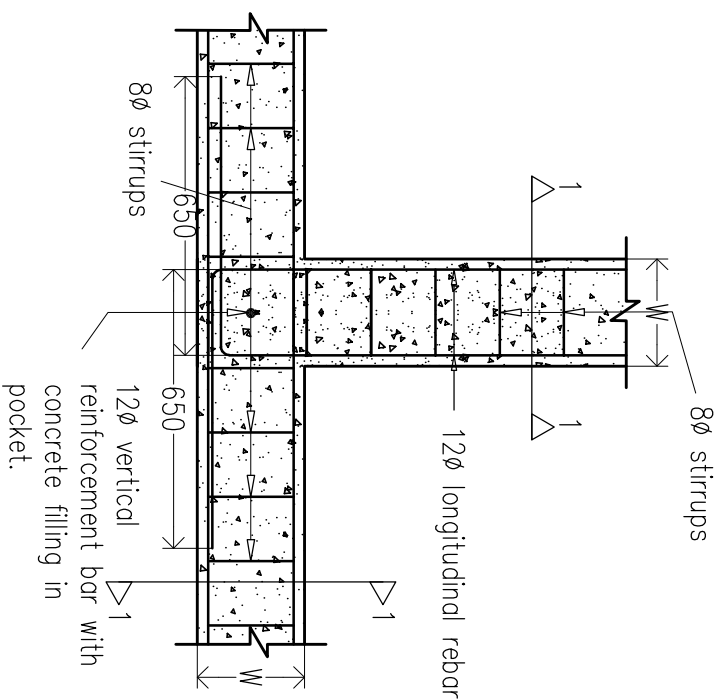
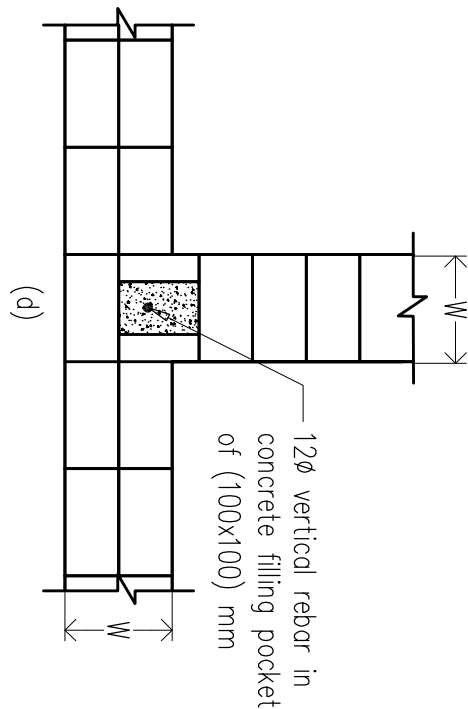
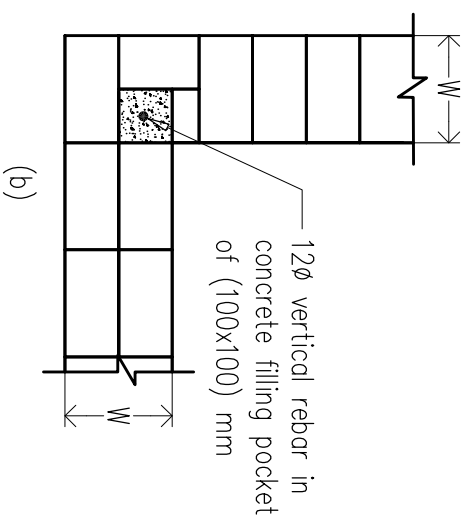
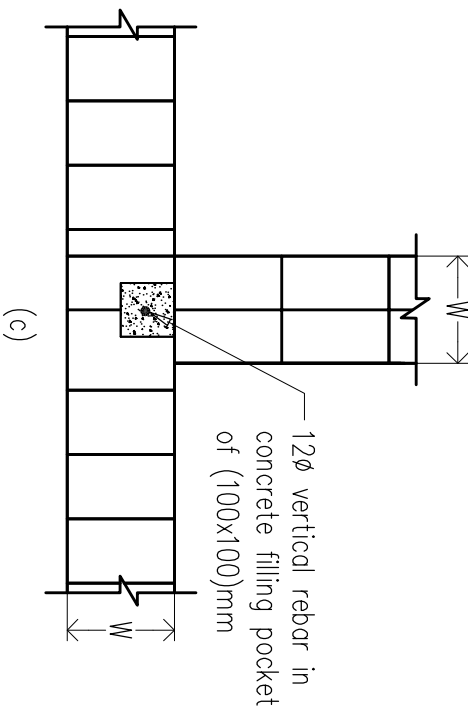
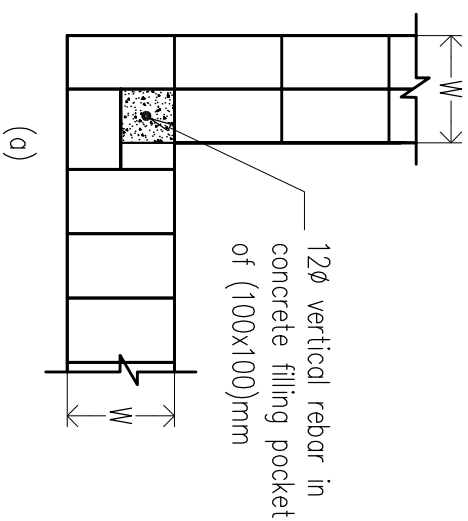
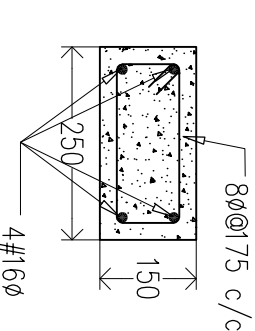
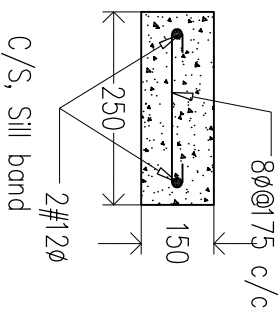
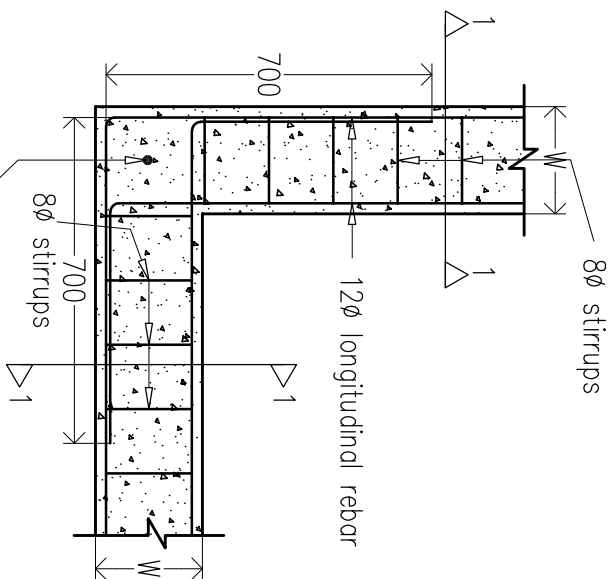
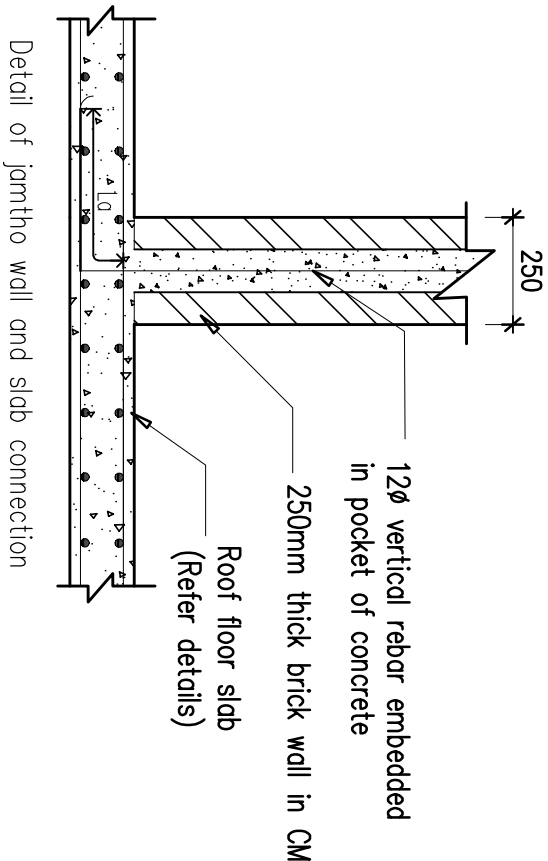
	BHUTAN POWER CORPORATION LIMITED		TRANSMISSION DEPARTMENT	
	PROJECT TITLE	DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		DRAWING STATUS
	APPROVAL	APPROVED		
	REFERENCE NOTES		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED 3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER	
APPROVED BY		DESIGNED BY		DRAWING TITLE
KUNZANG TOBGYE TD, BPC		 DORJI KINLEY EXECUTIVE ENGINEER TD, BPC		REFER DRAWING
SCALE		DATE		DRAWING NO.
REF DWG		FEBRUARY, 2022		BPC/TD/TMD/GOMTU/SD
				DWG # 33



JAMTHO FLOOR WALL DETAILS AT LVL +9.90M

	BHUTAN POWER CORPORATION LIMITED		TRANSMISSION DEPARTMENT	
	PROJECT TITLE	DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION	DRAWING STATUS	APPROVAL <input type="checkbox"/> APPROVED <input type="checkbox"/>
	REFERENCE NOTES		APPROVED BY	DESIGNED BY
	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	DORJI KINLEY EXECUTIVE ENGINEER TD, BPC
DRAWING TITLE		SCALE	DATE	DRAWING NO.
BPC/TD/TMD/GOMTU/SD		REF DWG	FEBRUARY, 2022	DWG # 34


- Note:
1. RC bands shall continue all around the walls.
 2. Vertical rebar shall be properly anchored in roof slab & shall continue through the band till the roof band.
 3. M20 concrete (1:1.5:3) shall be used for all RC works.
 4. The band shall be of the full width of the wall thick thickness as specified in the section details.
 5. The band shall be provided at sill level, lintel level and roof level.
 6. Clear cover of 25mm shall be provided for the rebars.
 7. Steel grade of Fe 500(TMT) shall be used. (BSB approved brands only)

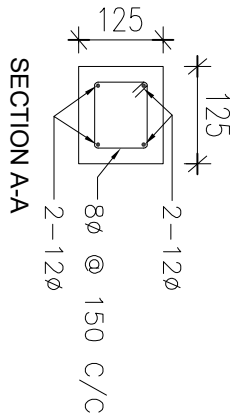
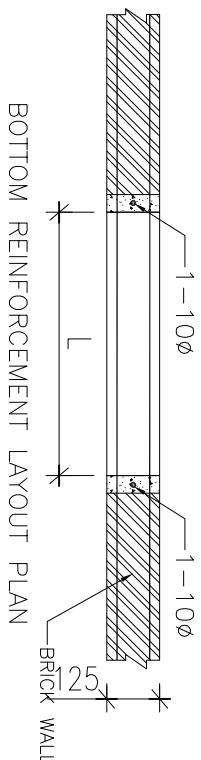
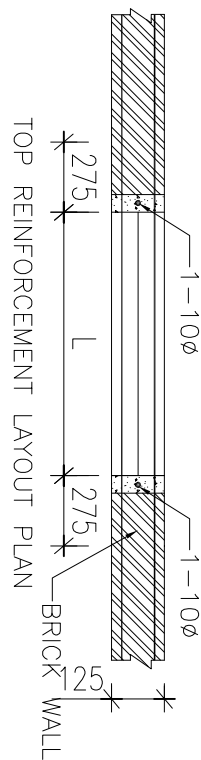
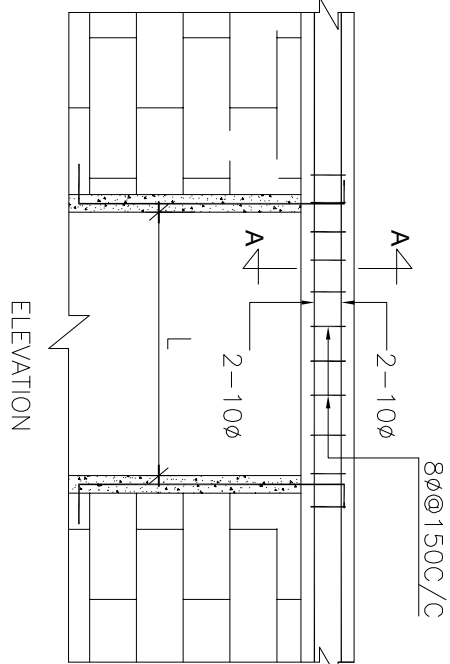


(a) and (b), alternate courses of brick/stone masonry wall at L-junctions (typical)

(c) and (d), alternate courses of brick/stone masonry wall at T-junctions (typical)

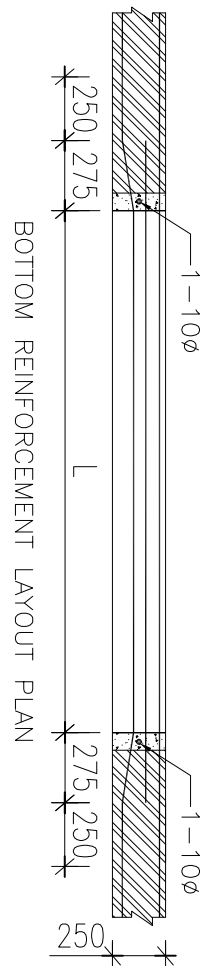
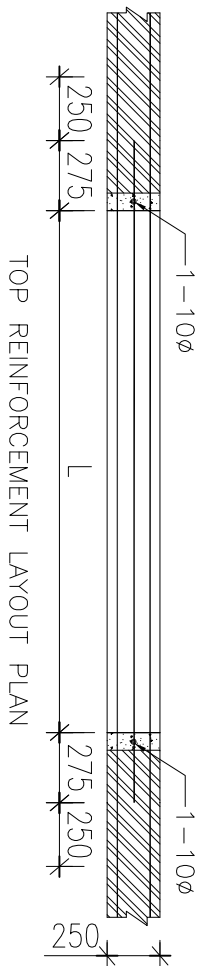
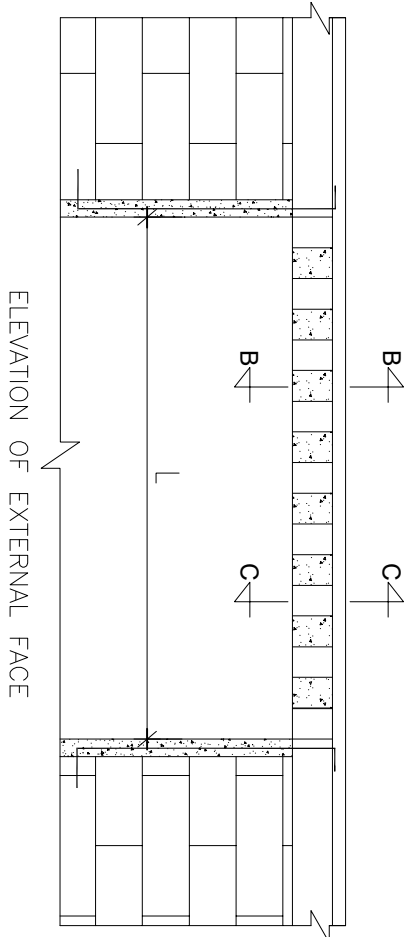
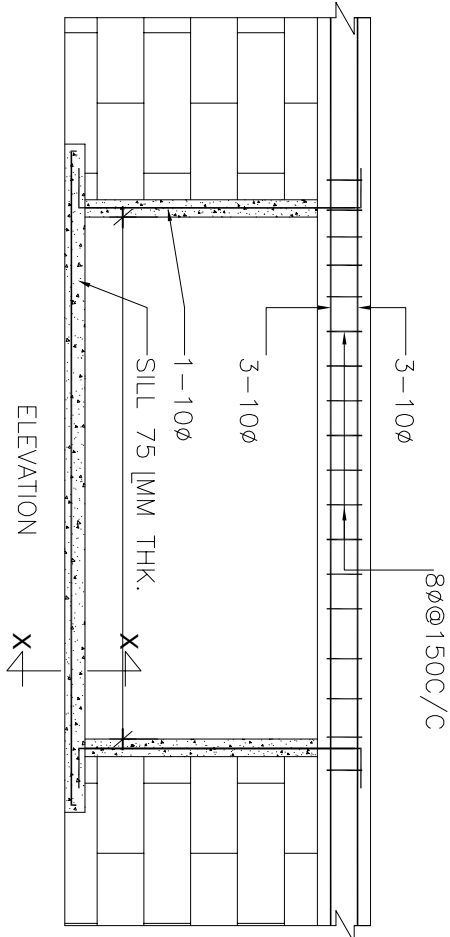
Details of band reinforcement at T-junctions

<div><div>BPC Bhutan Power Corporation Limited</div></div>		BHUTAN POWER CORPORATION LIMITED									
TRANSMISSION DEPARTMENT											
PROJECT TITLE		REFERENCE NOTES									
DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED									
DRAWING STATUS		APPROVAL <input type="checkbox"/>		APPROVED <input type="checkbox"/>		2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED		KUNZANG TOBGYE GENERAL MANAGER TD, BPC			
						3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER		DORJI KINLEY EXECUTIVE ENGINEER TD, BPC		DESIGNED BY	
								SCALE		DATE	
								REF DWG		FEBRUARY, 2022	
										DRAWING NO.	
										BPC/TD/TMD/GOMTU/SD	
										DWG # 35	

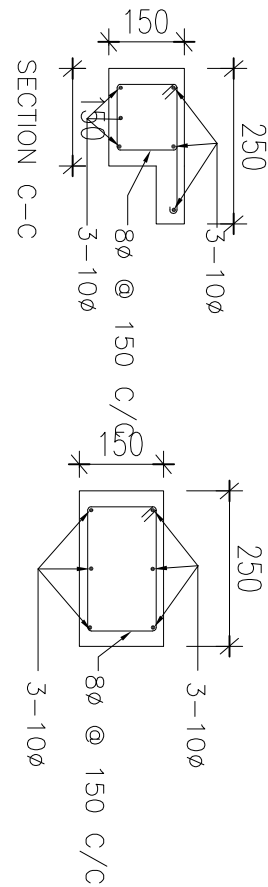


LINTEL DETAILS FOR 125MM THICK. WALL

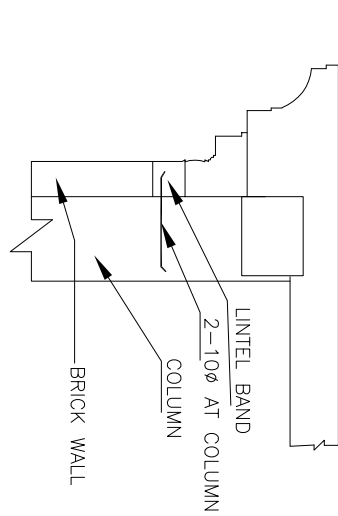
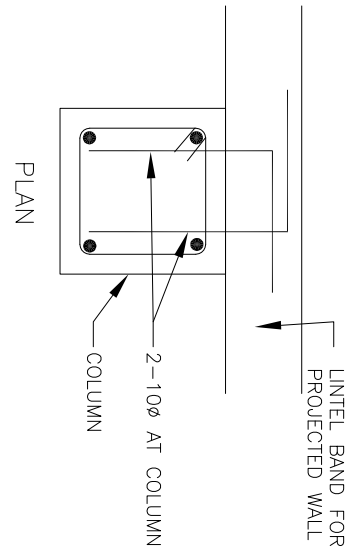
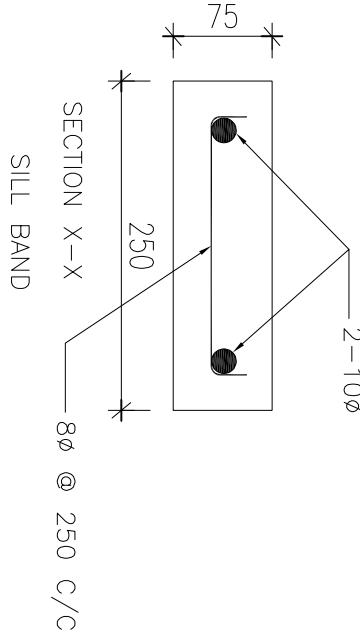
NOTE:
LINTEL SHOULD BE PROVIDED AROUND THE MAIN WALL



LINTEL DETAIL FOR 250 MM THICK. WALL

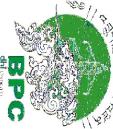



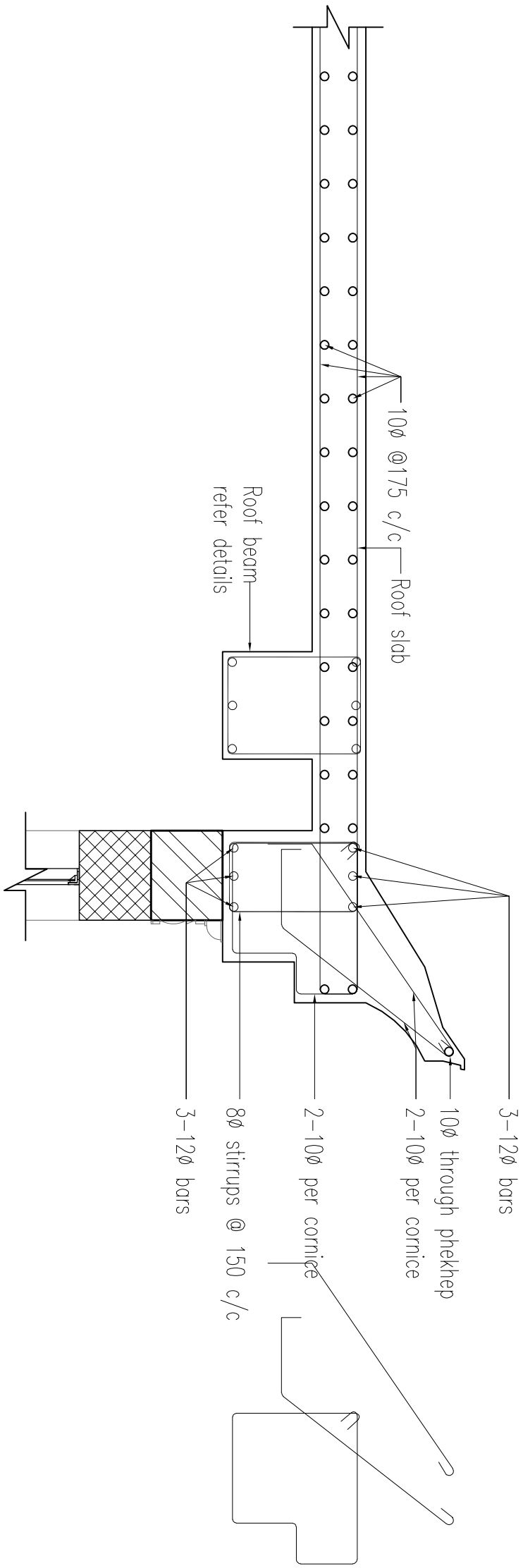
LINTEL SECTION DETAILS FOR 250mm THICK WALL



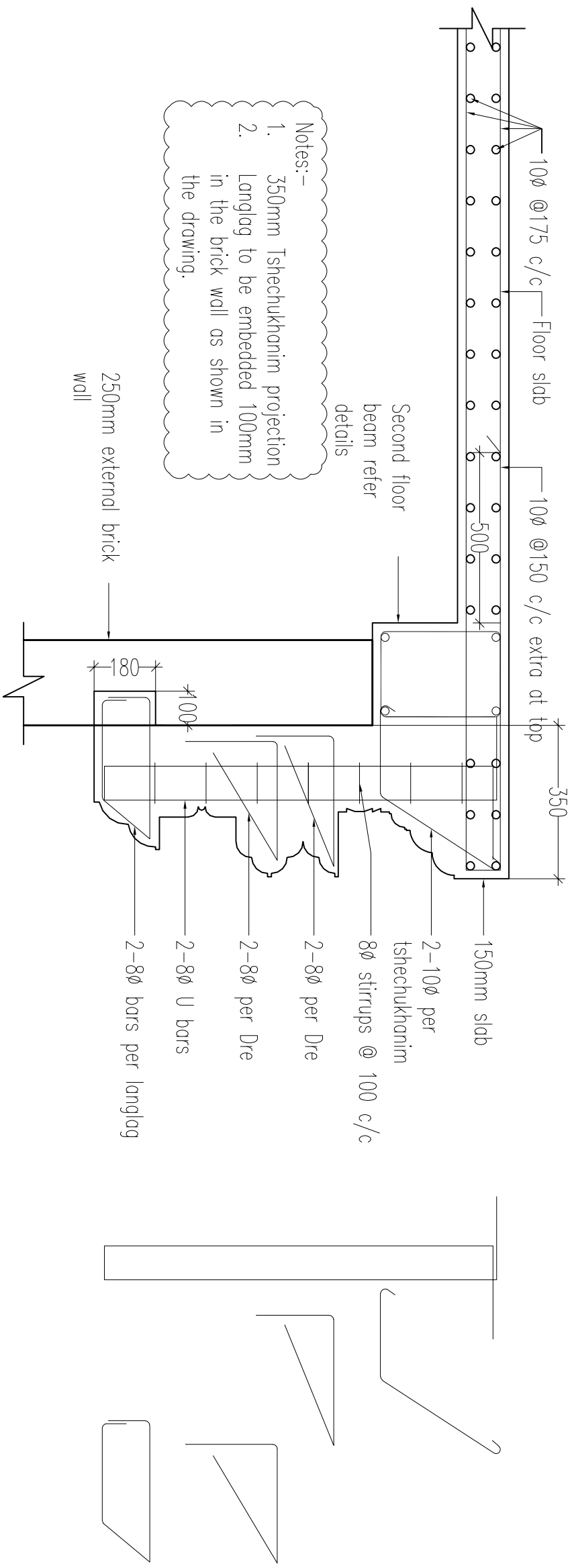
TYPICAL ANCHORAGE DETAILS FOR
LINTEL BAND FOR PROJECTED WALL

INTERNAL CUT LINTEL/LINTEL BEAM DETAILS OVER OPENING

	BHUTAN POWER CORPORATION LIMITED		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
TRANSMISSION DEPARTMENT			DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		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				SCALE		BPC/TD/TMD/GOMTU/SID	
			DRAWING STATUS				APPROVAL		APPROVED		DATE		DWG # 36	
											REF DWG		FEBRUARY, 2022	





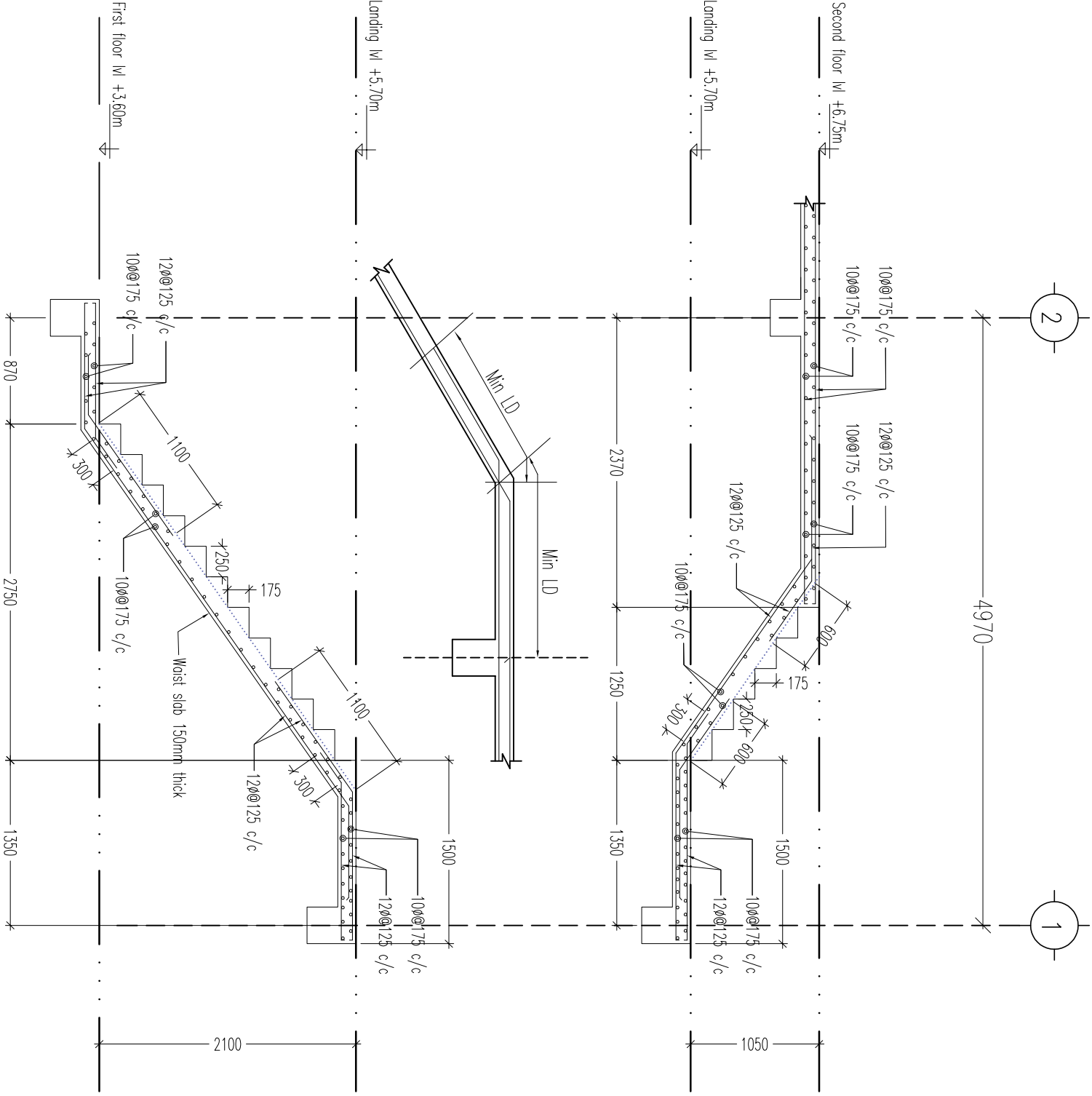
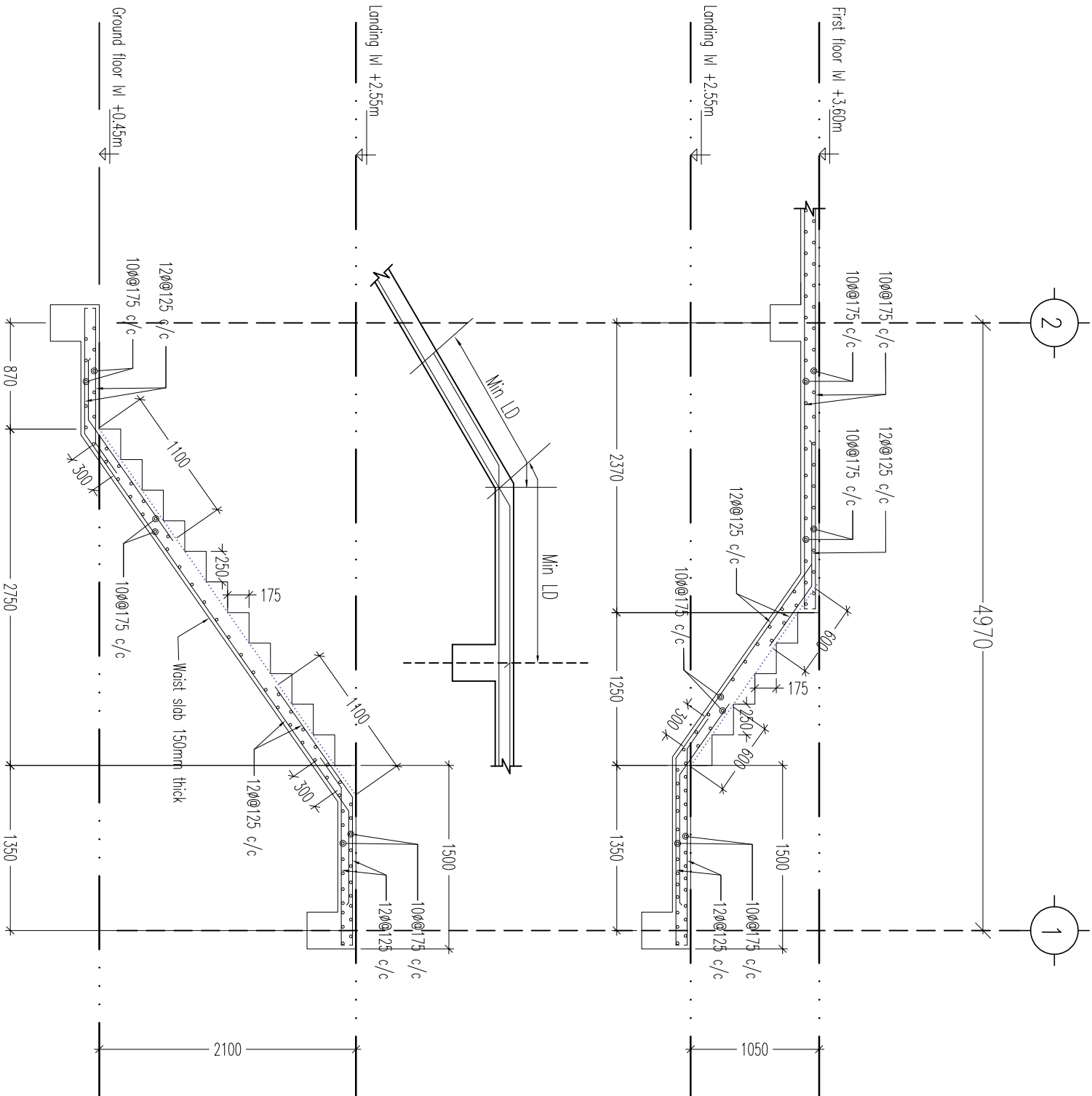
CORNICE DETAILS AT ROOF LEVEL




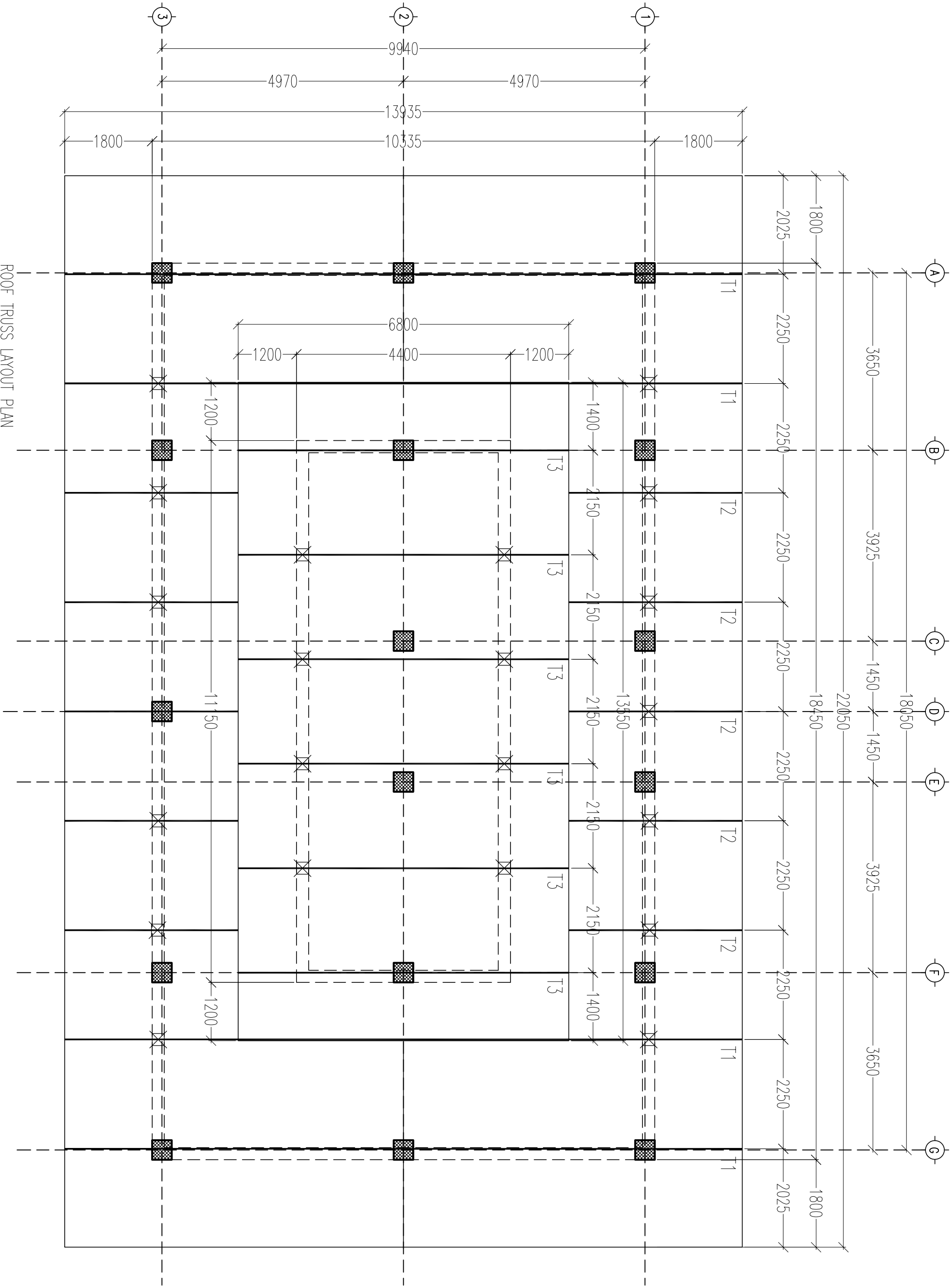
- Notes:-
- 350mm Tshechukhanim projection
 - Langlag to be embedded 100mm in the brick wall as shown in the drawing.

CORNICE DETAIL AT SECOND FLOOR LEVEL

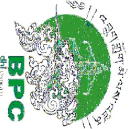

<div><div>BPC Bhutan Power Corporation Limited</div></div>		BHUTAN POWER CORPORATION LIMITED									
TRANSMISSION DEPARTMENT											
PROJECT TITLE											
DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION											
DRAWING STATUS											
APPROVAL		<input type="checkbox"/>		APPROVED		<input type="checkbox"/>					
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				DESIGNED BY				DRAWING TITLE			
KUNZANG TOBGYE GENERAL MANAGER TD, BPC				 DORJI KINLEY EXECUTIVE ENGINEER TD, BPC				REFER DRAWING			
SCALE				DATE				DRAWING NO.			
REF DWG				FEBRUARY, 2022				BPC/TD/TMD/GOMTU/SD			
DWG # 37											

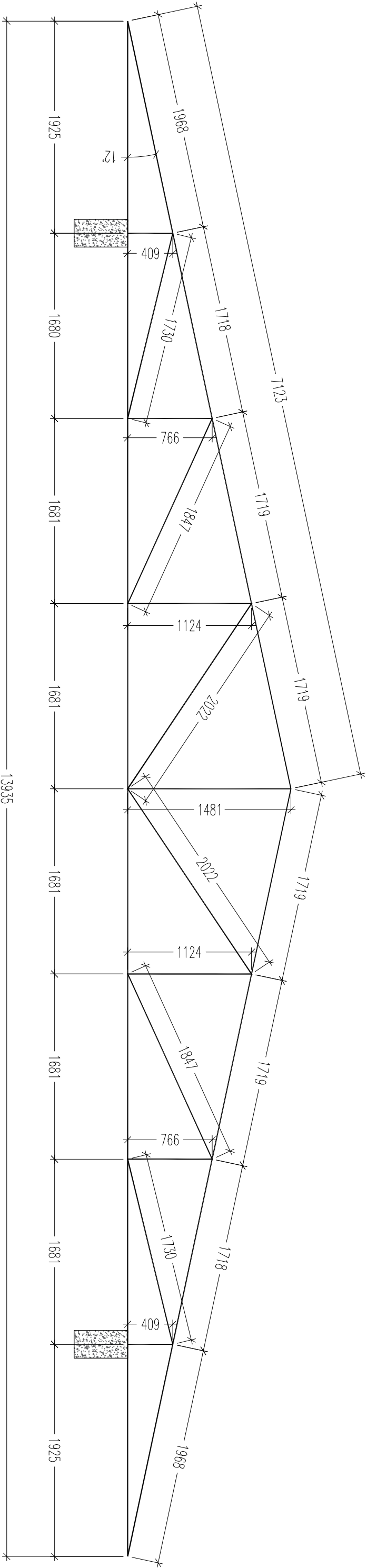


<div><div>BPC Bhutan Power Corporation Limited</div></div>		<div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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ROOF TRUSS LAYOUT PLAN

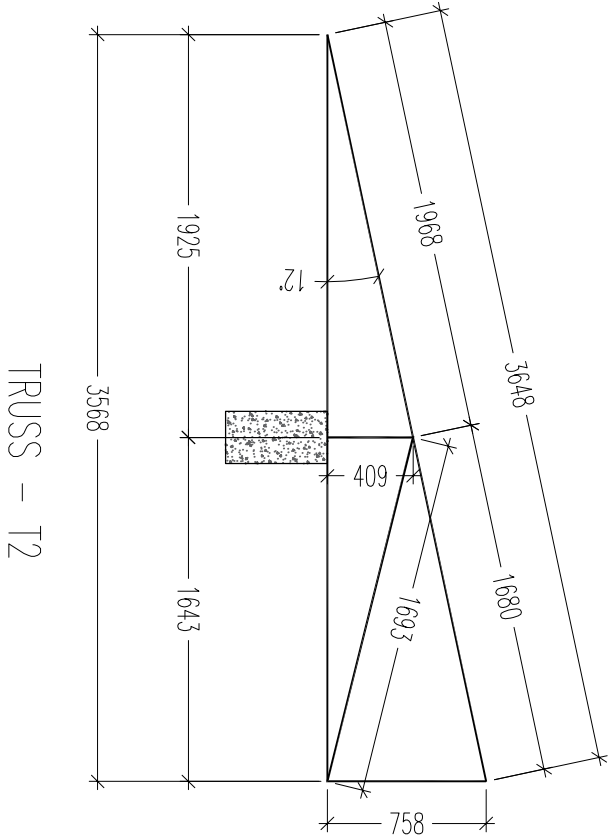
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TRANSMISSION DEPARTMENT		DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED		KUNZANG TOBGYE GENERAL MANAGER TD, BPC				SCALE		BPC/TD/TMD/GOMTU/SD		
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										FEBRUARY, 2022				



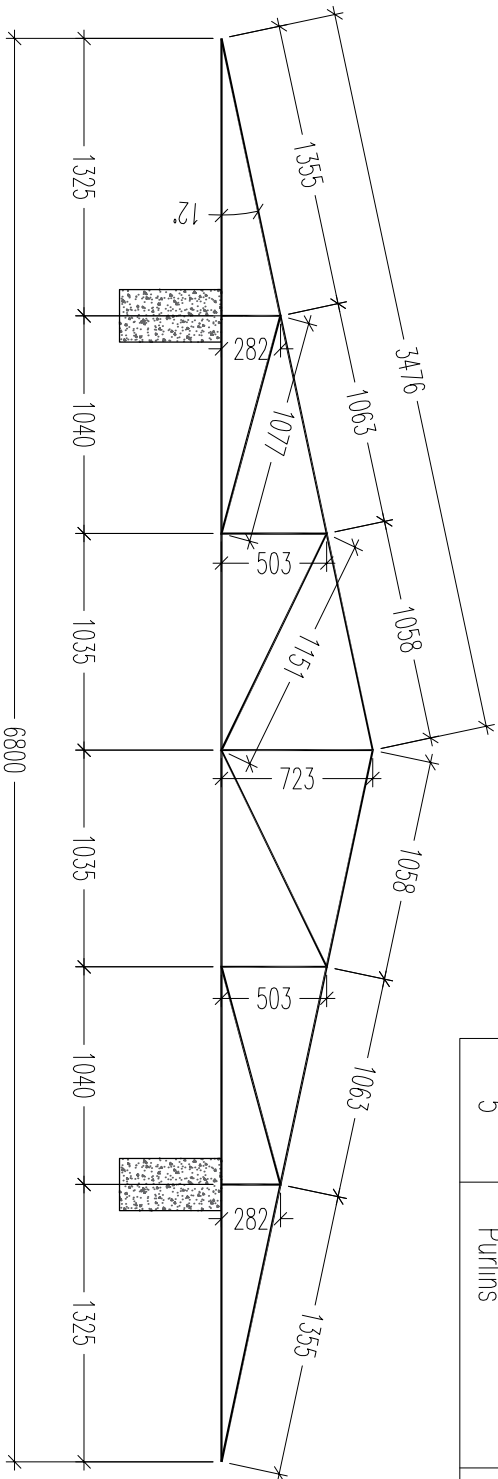
TRUSS – T1

TRUSS MEMBER SIZES

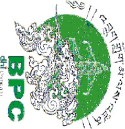

Sl. No	MEMBERS	SIZE
1	Bottom Chords	60.3mm OD, 3.65mm thick, 5.10kg/m
2	Rafters	60.3mm OD, 3.65mm thick, 5.10kg/m
3	Vertical struts	48.3mm OD, 3.25mm thick, 3.61kg/m
4	Inclined struts	48.3mm OD, 3.25mm thick, 3.61kg/m
5	Purlins	60.3mm OD, 3.65mm thick, 5.10kg/m @ 1000c/c

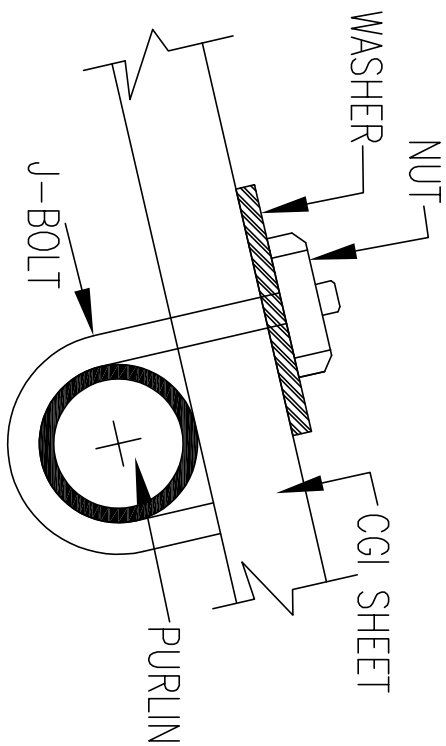


TRUSS – T2

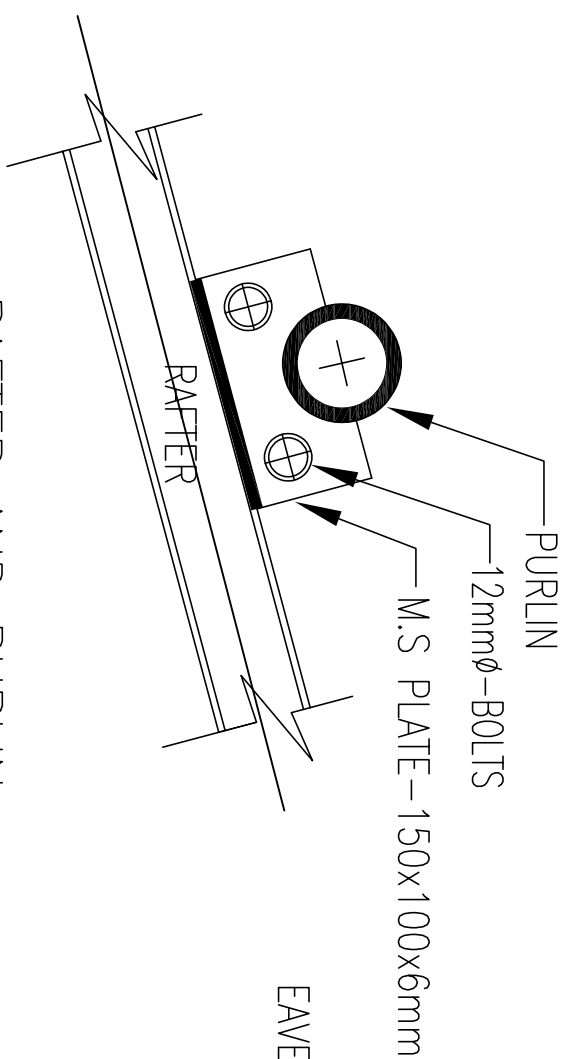


TRUSS – T3

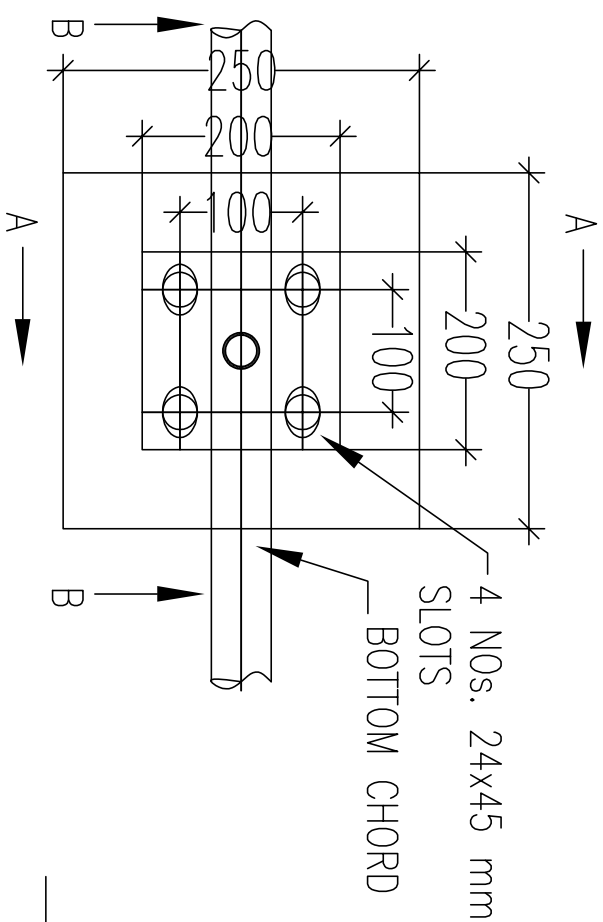
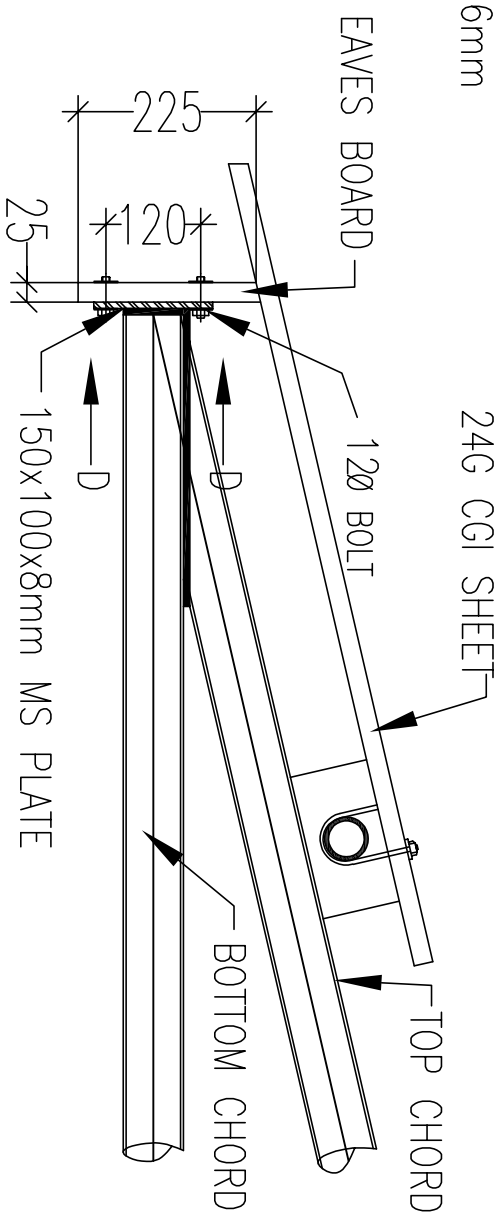
	BHUTAN POWER CORPORATION LIMITED																		
TRANSMISSION DEPARTMENT																			
PROJECT TITLE					REFERENCE NOTES					APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.			
DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION					1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE 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		 DORJI KINLEY EXECUTIVE ENGINEER TD, BPC		SCALE		DATE		BPC/TD/TMD/GOMTU/SID	
DRAWING STATUS					APPROVAL					APPROVED		REF DWG		FEBRUARY, 2022		DWG # 40			



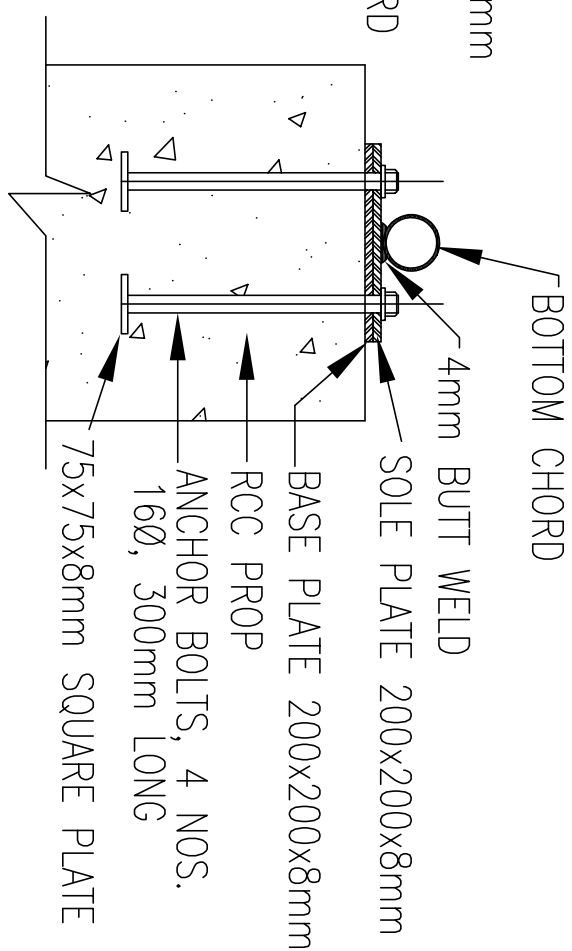
CONNECTION OF CGI SHEET TO PURLIN



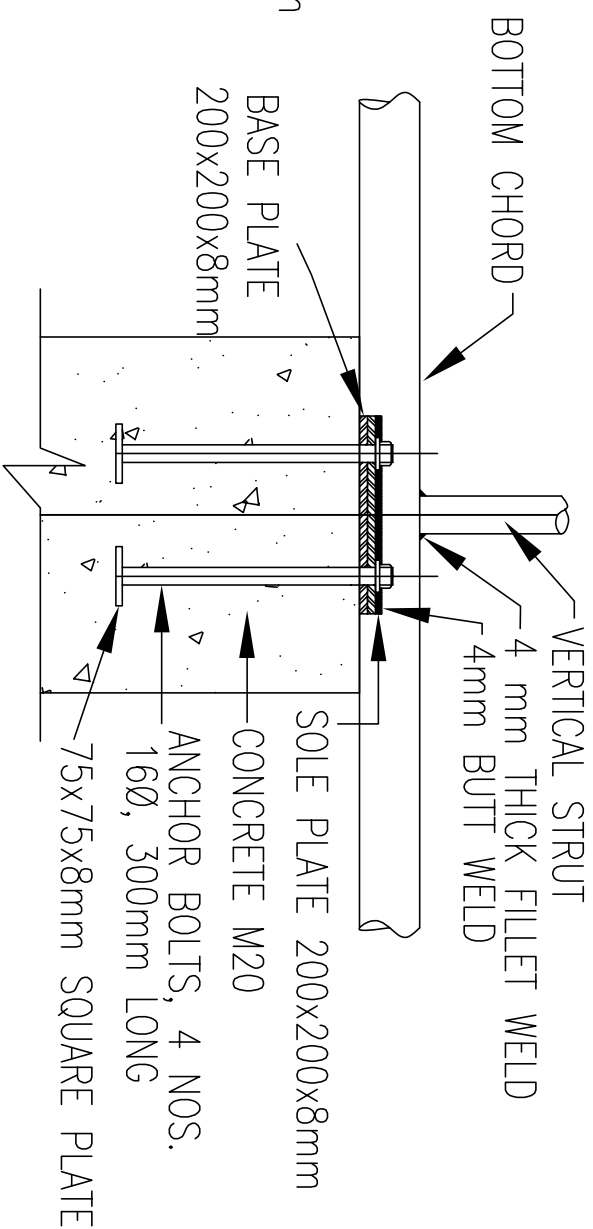
RAFTER AND PURLIN CLEAT JOINING DETAILS




TRUSS HOLDING DOWN DETAILS

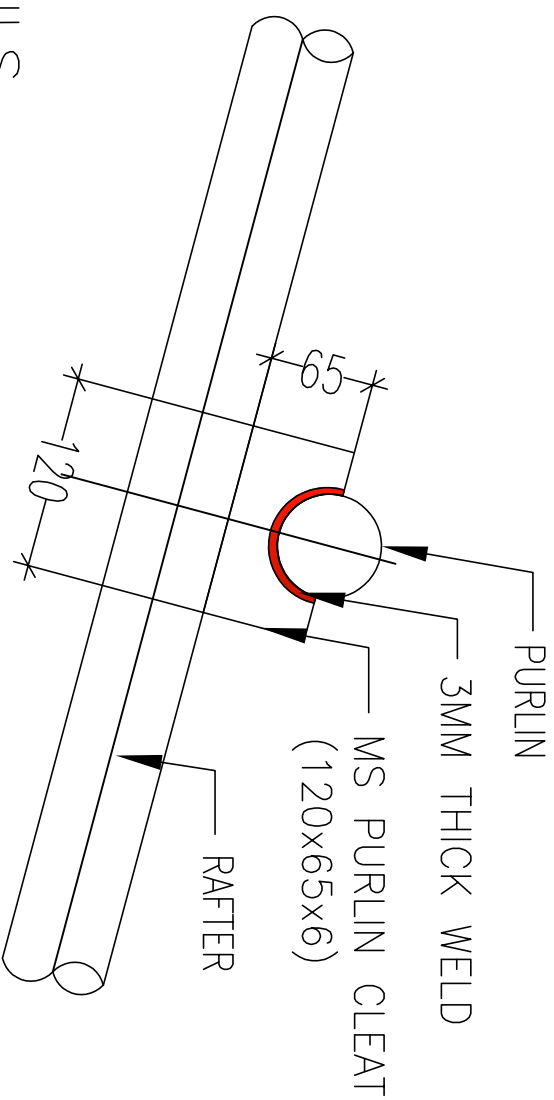
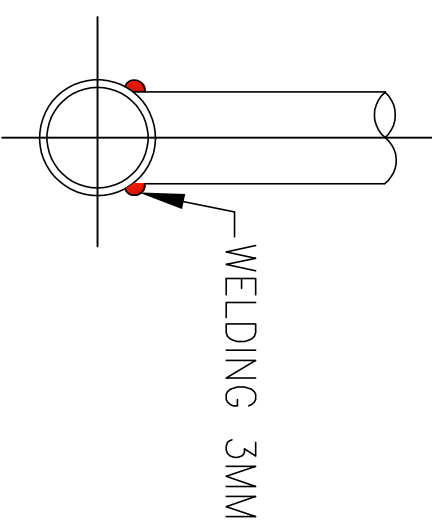
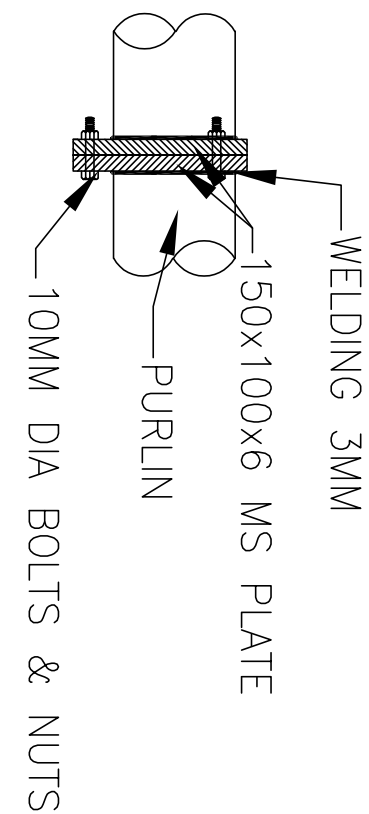
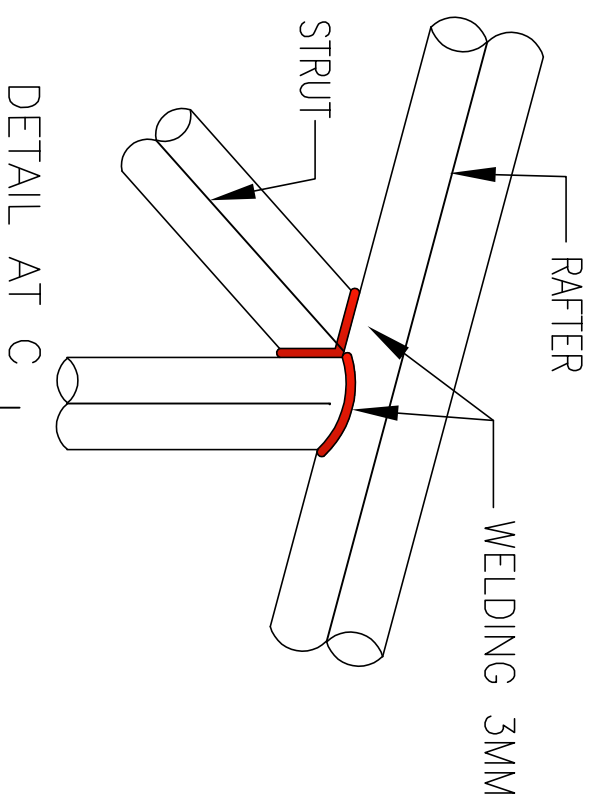
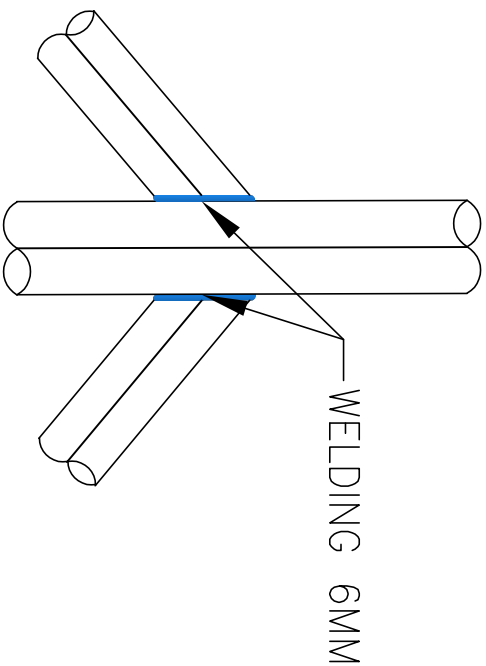
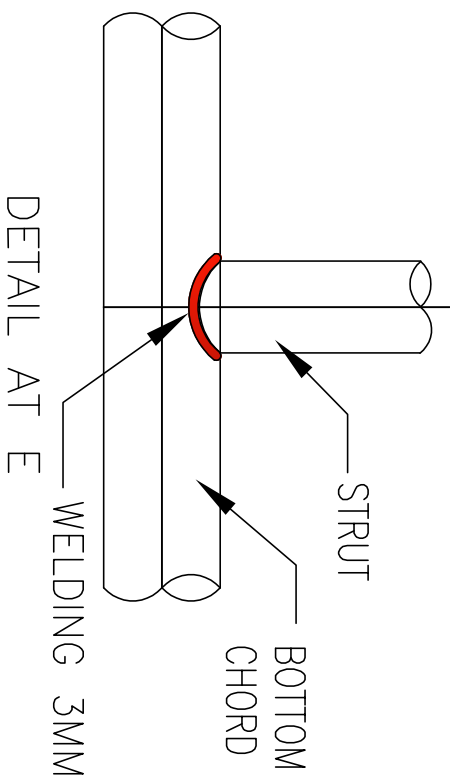
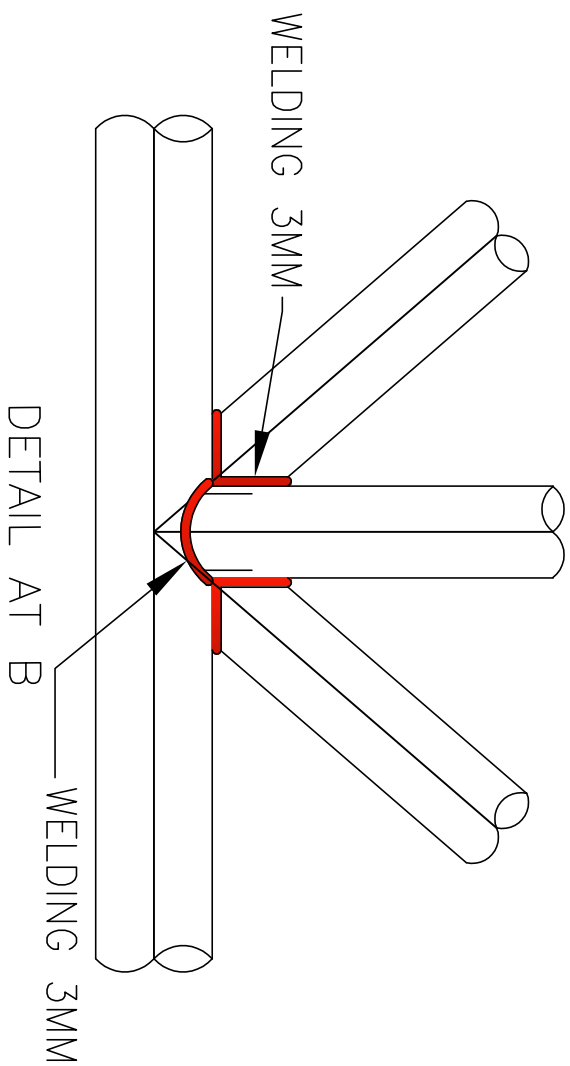
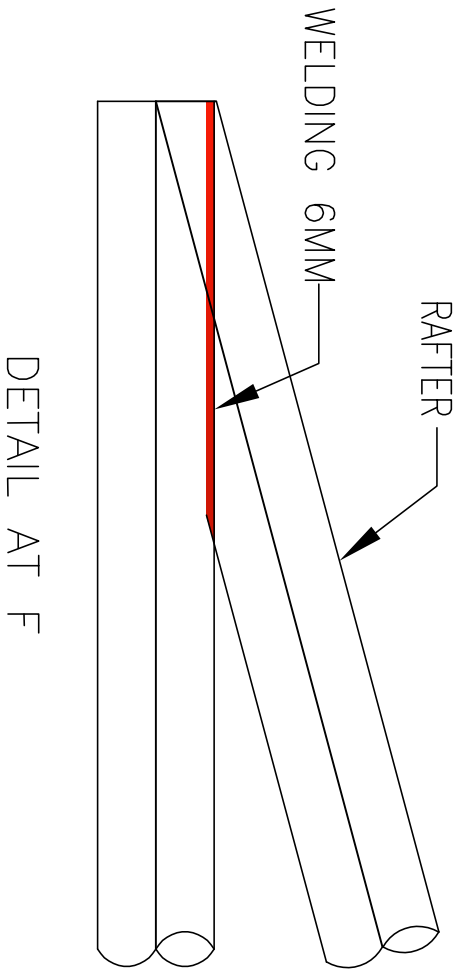
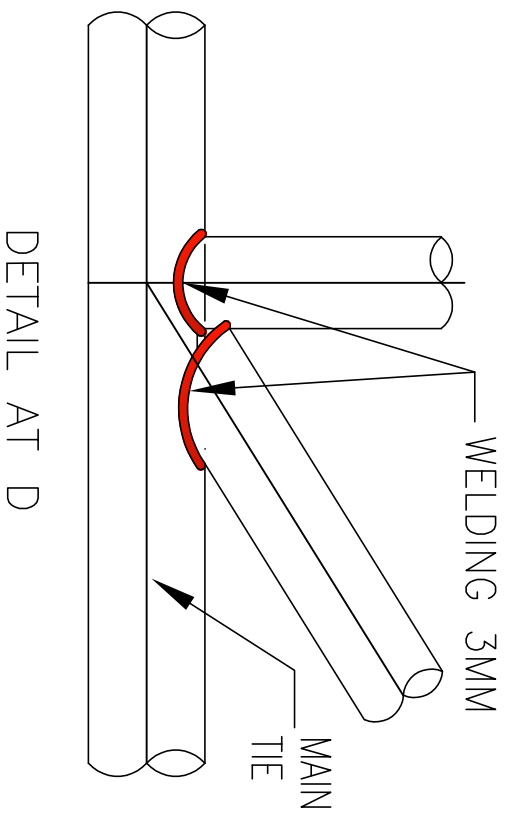
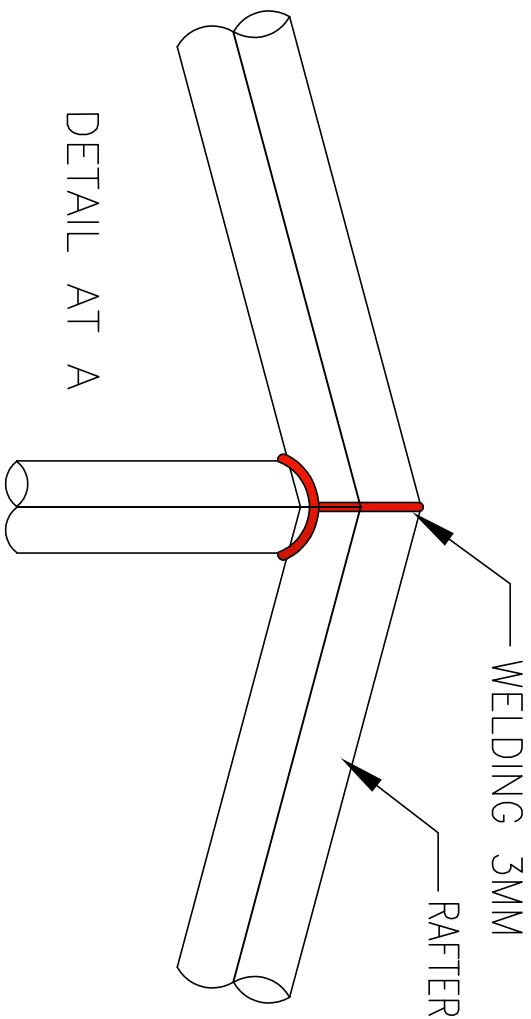


SECTION A-A




SECTION B-B

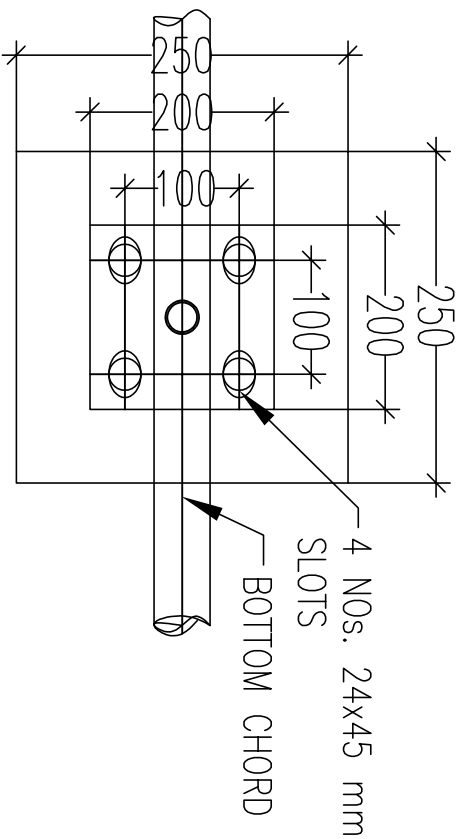
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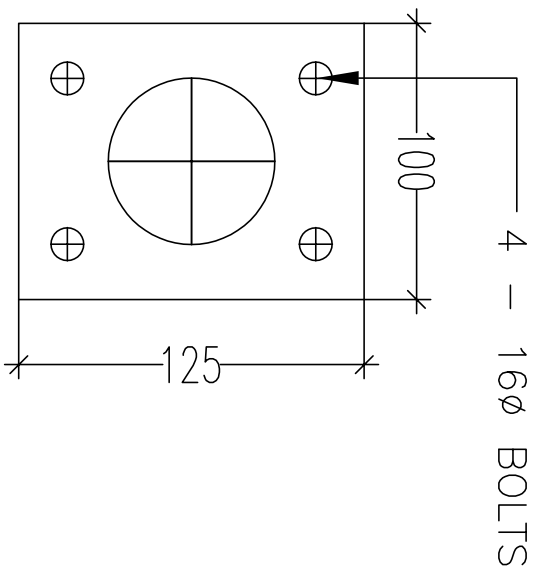
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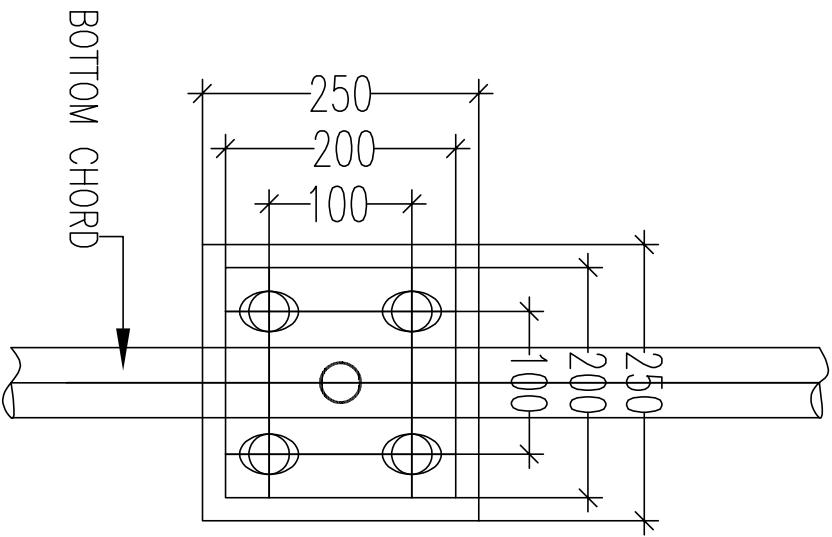
<div><div><div>100% Renewable Energy</div><div>Bhutan Power Corporation</div><div>of Bhutan</div></div></div>		<div><div></div><div><div><div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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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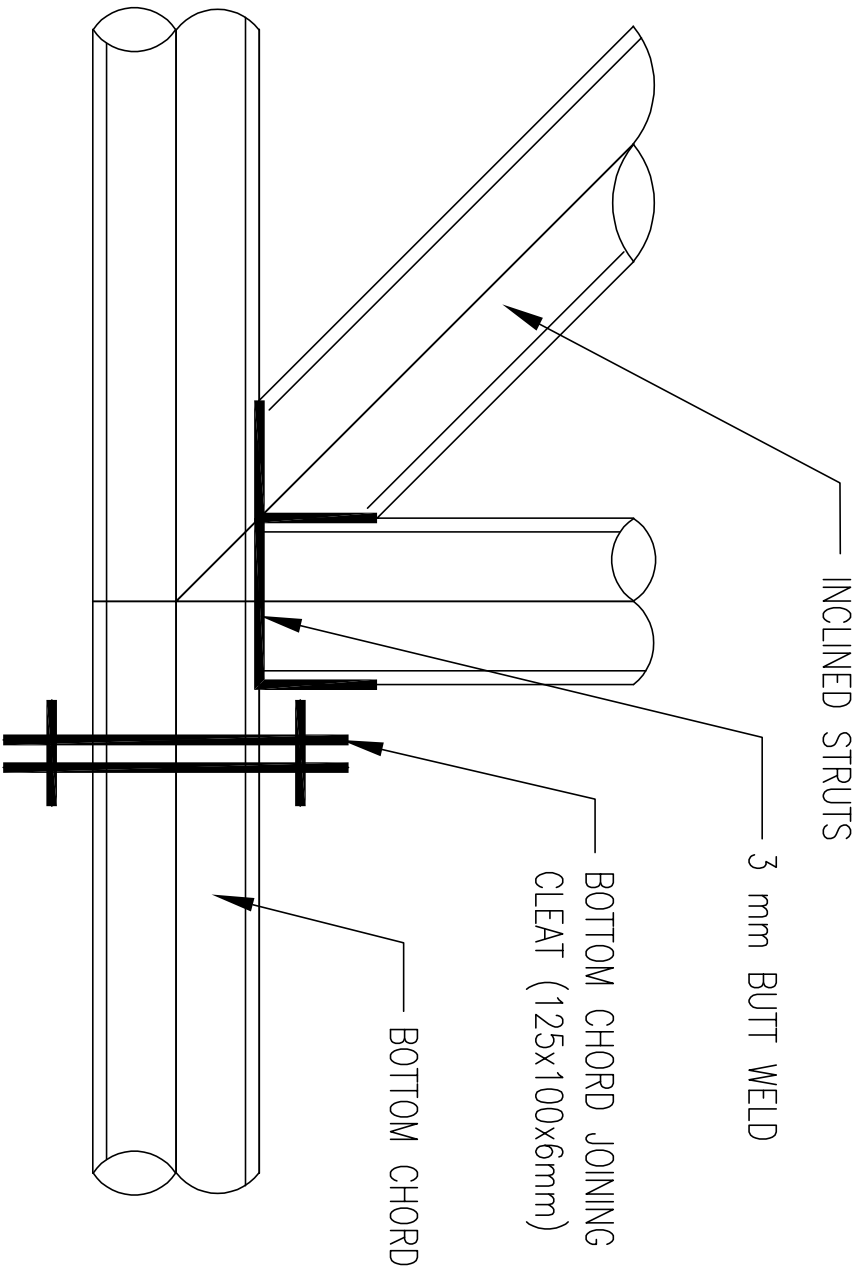
TRUSS HOLD-DOWN IN X DIRECTION



BOTTOM CHORD JOINING PLATE/CLEAT



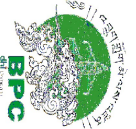

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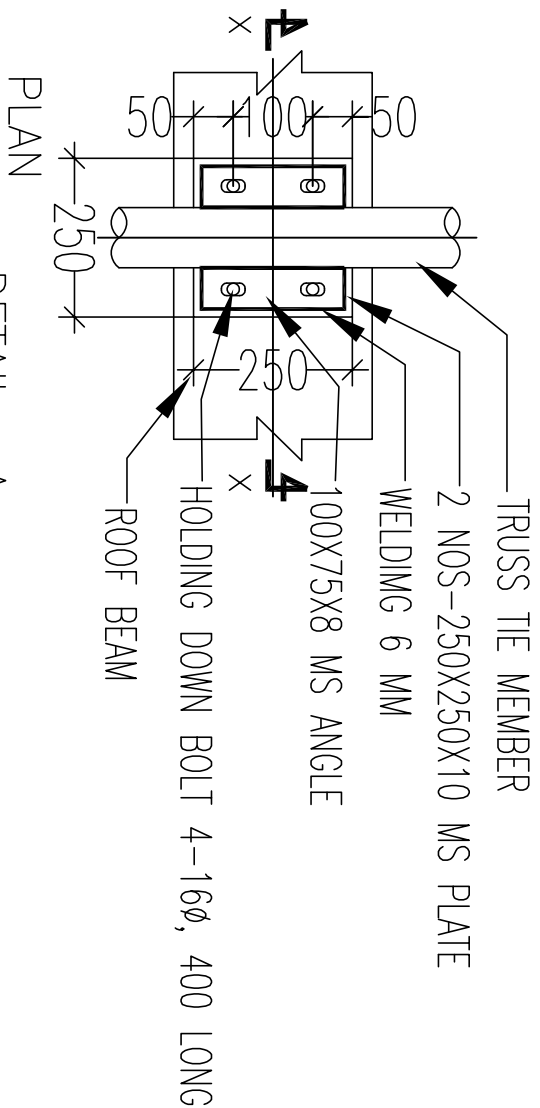


BOTTOM CHORD JOINING DETAILS

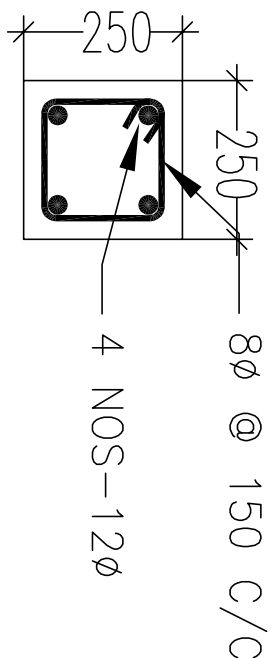
- NOTE:**
1. ALL THE SECTION DETAILS WILL BE SAME AS SHOWN BY SECTIONS A-A & B-B
 2. THE PURLINS ARE SPACED AT 1200mm C/C

- NOTES (FOR ROOF TRUSS):**
1. THE GUSSET PLATES ARE MS PLATE OF DIFFERENT THICKNESS AND DESIGN CONFIRMS TO IS 806:1968
 2. WELDING SHALL CONFORM TO IS:816
 3. ALL ELECTRODES SHALL CONFORM TO IS:814 (PART-1).
 4. ALL M.S. BOLTS & NUTS SHALL CONFORM TO IS:5369, IS:5370, IS:5371, IS:5372/IS:5374
 5. WASHERS SHALL CONFORM TO IS:5369, IS:5370, IS:5371, IS:5372/IS:5374
 6. HOLE SIZE = DIA OF BOLT + 1.5mm.
 7. ALL STRUCTURES AFTER FABRICATION SHALL BE PAINTED ANTI-CORROSIVE PAIRF DWG.
 8. ALL STRUCTURAL STEEL CONTACT SURFACES SHALL BE CLEANED OF ANY RUST, OIL, GREASE etc. BEFORE WELDING/PAINTING.
 9. WRITTEN DIMENSIONS SHALL BE FOLLOWED & DOUBT MUST BE CLARIFIED BEFORE EXECUTION OF THE WORK.
 10. FABRICATION AND ERECTION WORK SHALL BE CARRIED OUT AS CHECKED BY ENGINEER-IN-CHARGE.

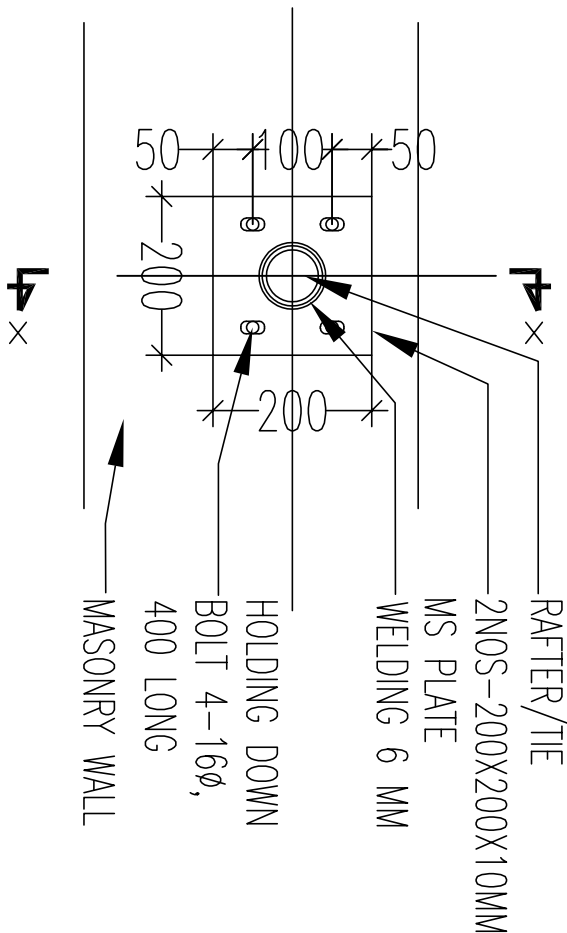
	BHUTAN POWER CORPORATION LIMITED		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
	TRANSMISSION DEPARTMENT		DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED 2. THE MEASUREMENTS IN THE DRAWING 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		 DORJI KINLEY EXECUTIVE ENGINEER TD, BPC		REFER DRAWING		BPC/TD/TMD/GOMTU/SID	
			DRAWING STATUS						SCALE		DATE			
			<input type="checkbox"/> APPROVAL						REF DWG		FEBRUARY, 2022		DWG # 43	



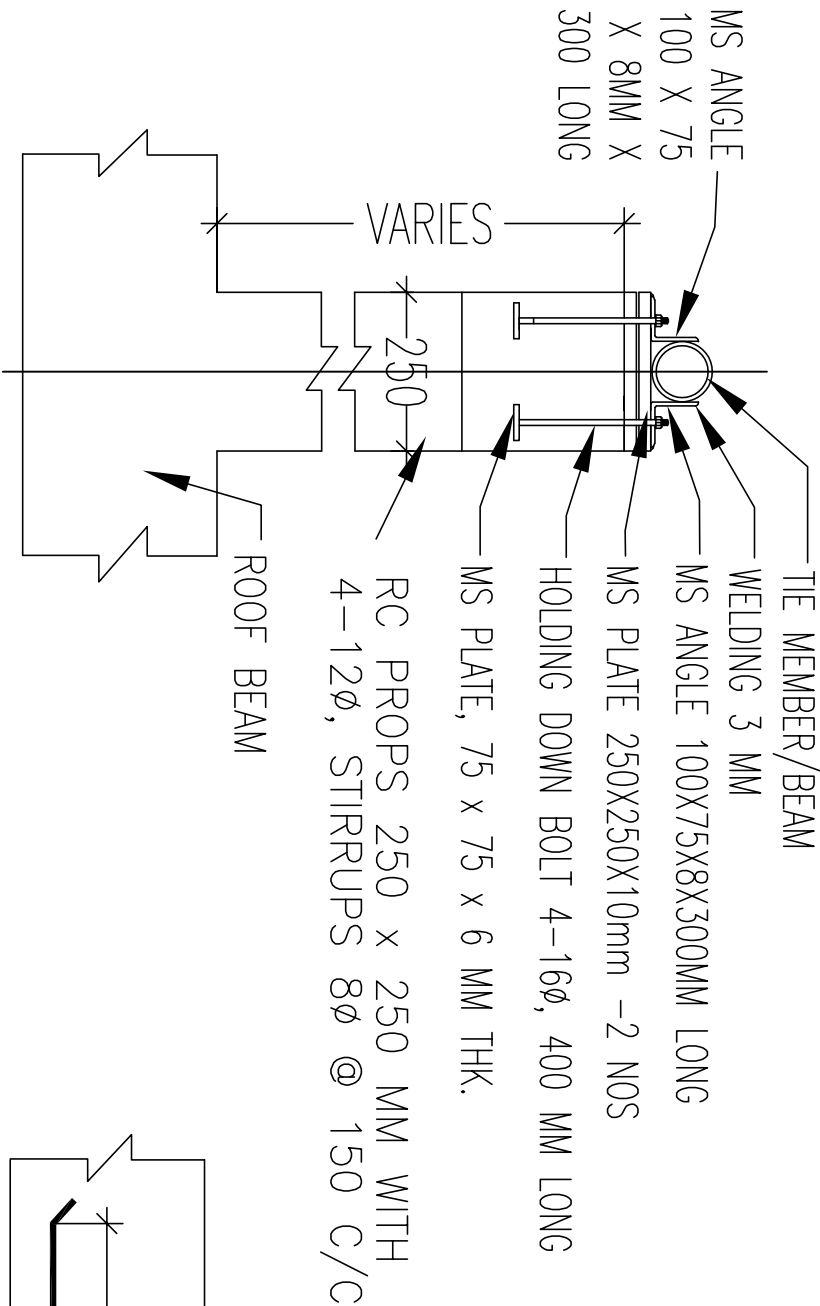
DETAIL -A



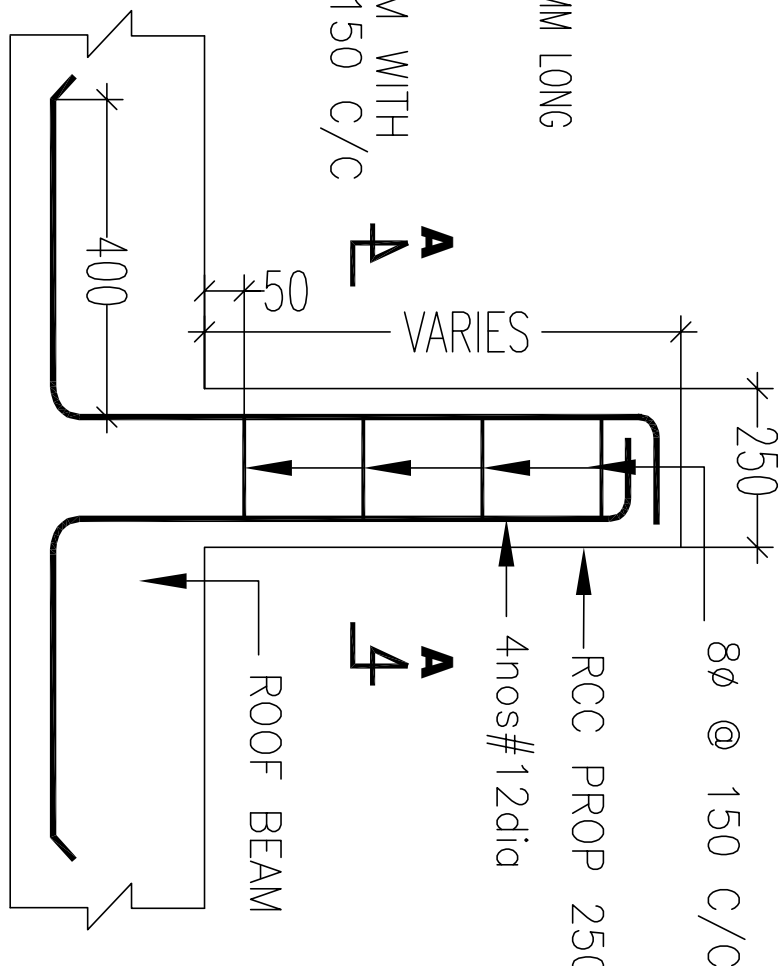
SECTION A-A



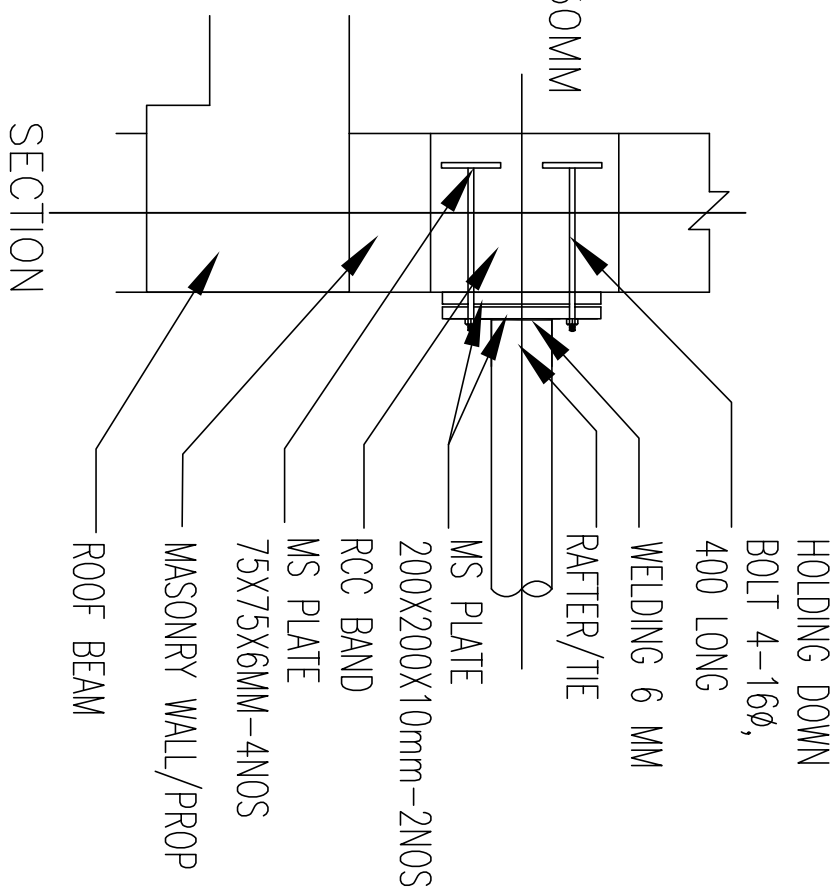
ELEVATION





SECTION X-X

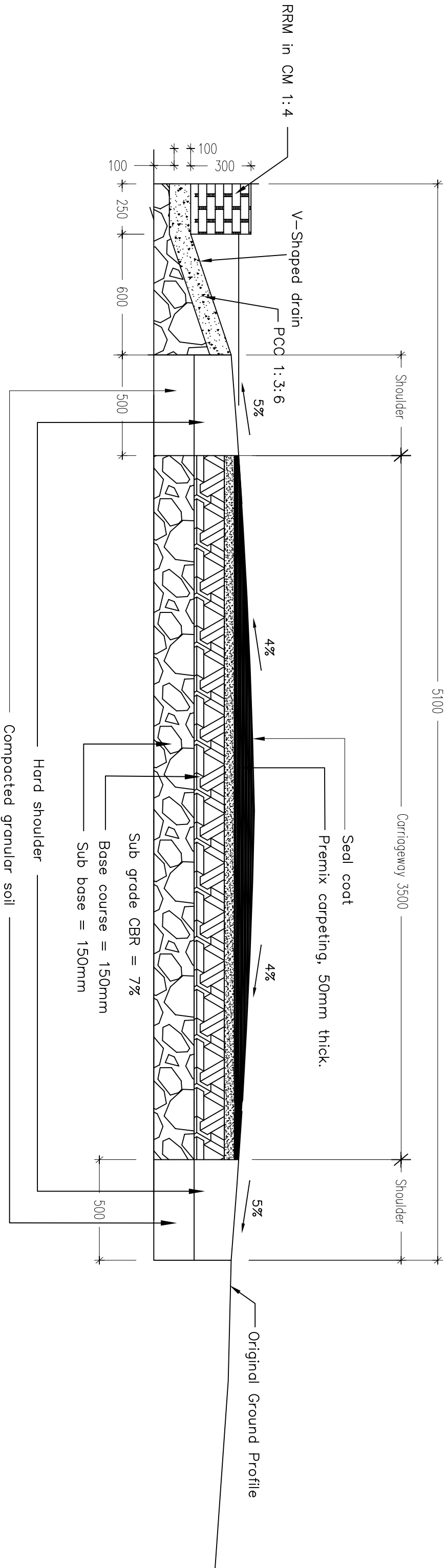


DETAILS OF RCC PROP



ANCHORAGE DETAILS ON WALLS/BAND

	BHUTAN POWER CORPORATION LIMITED TRANSMISSION DEPARTMENT		PROJECT TITLE DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		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 TD, BPC	DESIGNED BY  DORJI KINLEY EXECUTIVE ENGINEER TD, BPC	DRAWING TITLE REFER DRAWING SCALE	DATE REF DWG	DRAWING NO. DWG # 44
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TYPICAL CROSS SECTION OF BITUMEN ROAD AND PARKING

<div><div><div><div><div><div></div><div>BPC</div></div></div><div><div><div></div><div>འབྲུག་གི་འཕུལ་ཁུངས་ལྷན་ཁག་</div><div>འབྲུག་ཡུལ་གྱི་འཕུལ་ཁུངས་ལྷན་ཁག་</div></div></div></div></div></div>		<div><div><div>BHUTAN POWER CORPORATION LIMITED</div><div>TRANSMISSION DEPARTMENT</div></div></div>		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
		DESIGN OF STAFF QUARTER (G+2) AT GOMTU SUBSTATION		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED		KUNZANG TOBGYE GENERAL MANAGER TD, BPC		DORJI KINLEY EXECUTIVE ENGINEER TD, BPC		REFER DRAWING		BPC/TD/TMD/GOMTU/SID			
DRAWING STATUS		APPROVAL <input type="checkbox"/> APPROVED <input type="checkbox"/>		2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED						SCALE		DATE			
				3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER						REF DWG		FEBRUARY, 2022			
														DWG # 45	