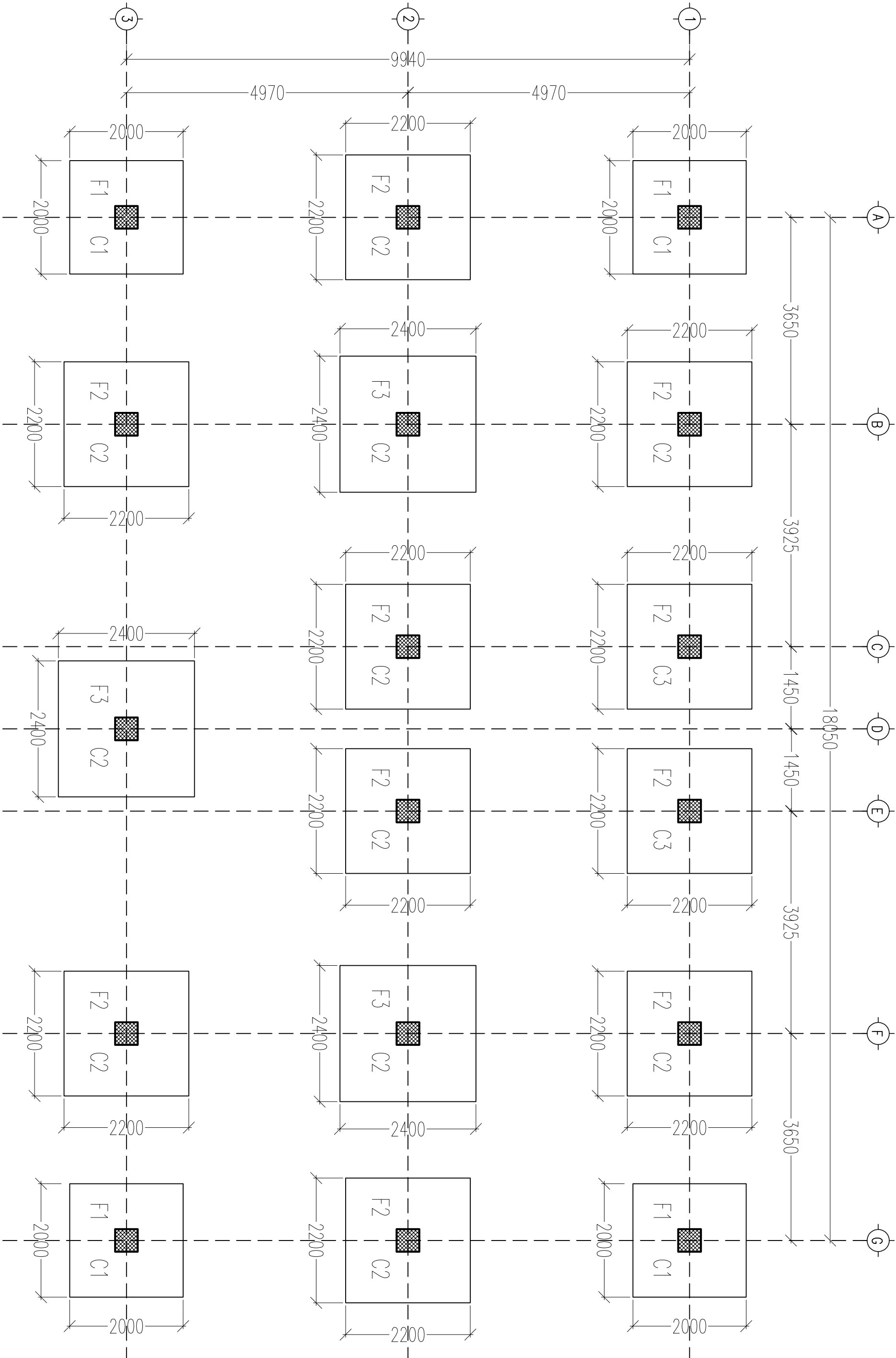


STRUCTURAL DRAWINGS


DESIGN OF STAFF QUARTER (G+2) AT TSHENKHARI, NANGLAM

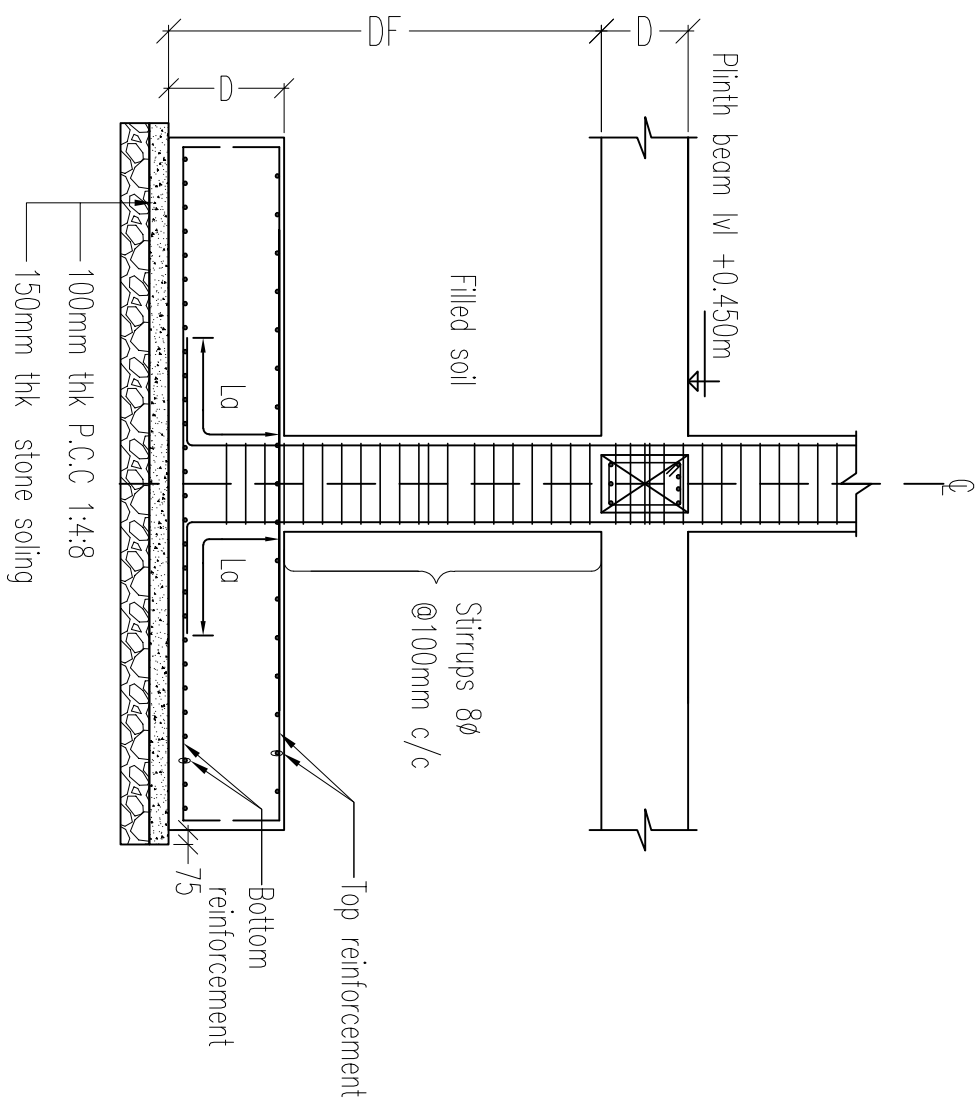
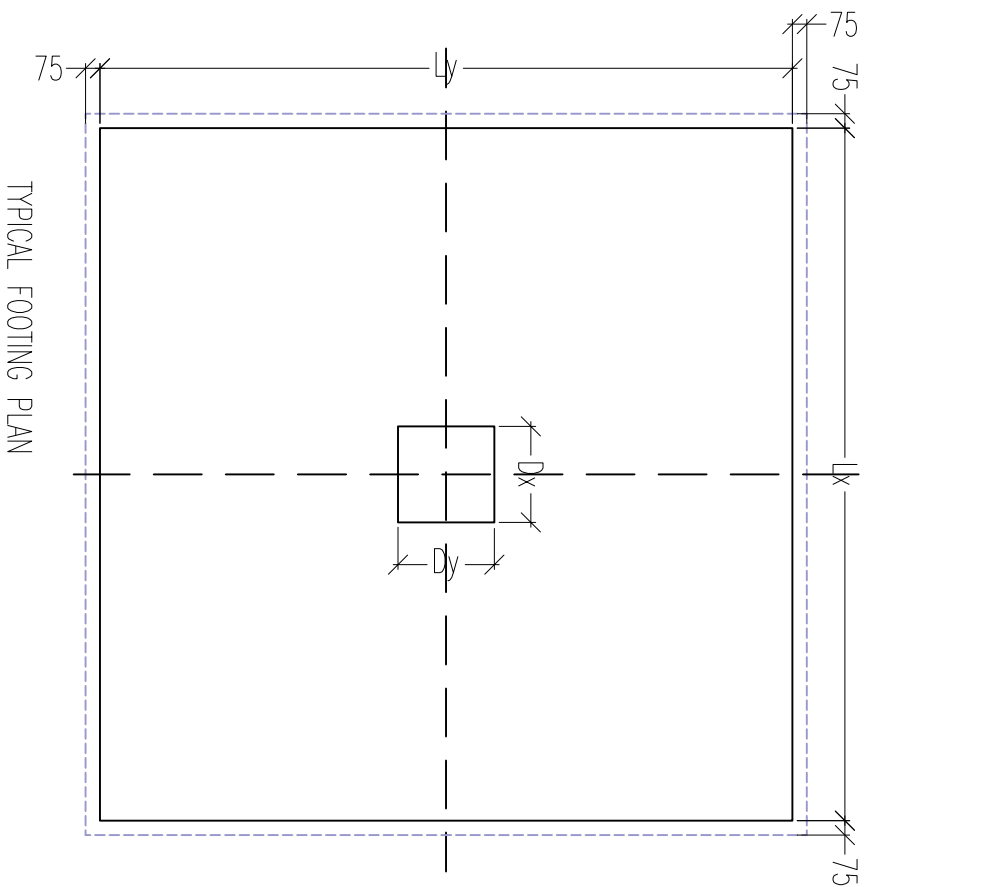
SCHEDULE OF DRAWINGS		
DRAWING NAME	PAGE NUMBER	
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FOOTING LAYOUT PLAN	02	
SCHEDULE OF FOOTINGS	03	
SECTION OF WALL FOOTING	04	
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JAMTHO FLOOR WALL DETAILS	34	
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	BHUTAN POWER CORPORATION LIMITED	
TRANSMISSION DEPARTMENT		
PROJECT TITLE		REFERENCE NOTES
DESIGN OF STAFF QUARTER (G+2) AT TSENKHARI, NANGLAM		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
DRAWING STATUS	APPROVAL	APPROVED
APPROVED BY		DESIGNED BY
KUNZANG TOBGYE GENERAL MANAGER TD, BPC		DORJI KINLEY EXECUTIVE ENGINEER TD, BPC
DRAWING TITLE		DRAWING NO.
COVER PAGE		BPC/TD/TMD/NANGKHORSD
SCALE	DATE	DWG # 00
-	FEBRUARY, 2022	



FOOTING LAYOUT PLAN

<div><div>BPC Bhutan Power Corporation of Bhutan</div></div>		<div><div></div><div>BHUTAN POWER CORPORATION LIMITED</div><div>TRANSMISSION DEPARTMENT</div></div>									
<div>PROJECT TITLE</div>		<div>REFERENCE NOTES</div>									
<div>DESIGN OF STAFF QUARTER (G+2) AT TSENKHARI, NANGLAM</div>		<div>1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED</div>									
<div>DRAWING STATUS</div>		<div>2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED</div>									
<div>APPROVAL <input type="checkbox"/></div>		<div>3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER</div>									
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		<div>KUNZANG TOBGYE GENERAL MANAGER TD, BPC</div>		<div>DORJI KINLEY EXECUTIVE ENGINEER TD, BPC</div>		<div>REFER DRAWING</div>		<div>BPC/TD/TMD/NANGKHOR/SD</div>			
						<div>SCALE</div>		<div>DATE</div>			
						<div>NTS</div>		<div>FEBRUARY, 2022</div>			
								<div>DWG # 02</div>			




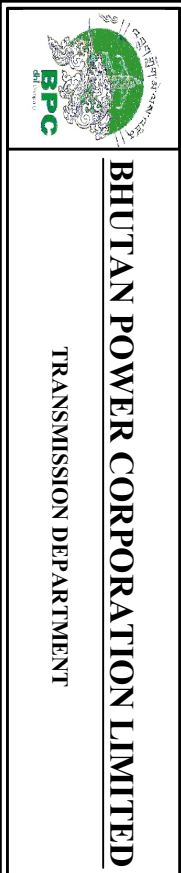
Sl.No.	FOOTING TYPE	SIZE (Lx x Ly)	COLUMN SIZE (Lx x Ly)	BOTTOM REBAR		TOP REBAR		PAD DEPTH D	FOUNDATION DEPTH F _{dn} . D
				X	Y	X	Y		
1	F1	2000 x 2000	400x400	160@150C/C	160@150C/C	120@200C/C	120@200C/C	400	1500
2	F2	2200 x 2200	400x400	160@150C/C	160@150C/C	120@200C/C	120@200C/C	450	1500
3	F3	2400 x 2400	400x400	160@120C/C	160@120C/C	120@180C/C	120@180C/C	500	1500

Bar Dia.	Development Length (Ld)	Anchorage Length (Ld)
120	684	804
160	912	1072
200	1140	1340
250	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.

											
BHUTAN POWER CORPORATION LIMITED											
TRANSMISSION DEPARTMENT											
PROJECT TITLE											
DESIGN OF STAFF QUARTER (G+2) AT TSENKHARI, NANGLAM											
DRAWING STATUS											
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		REFERENCE NOTES									
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		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		DRAWING NO.					
KUNZANG TOBGYE GENERAL MANAGER TD, BPC		DORJI KINLEY EXECUTIVE ENGINEER TD, BPC		REFER DRAWING		BPC/TD/TMD/N/ANGKHOR/SD					
		SCALE		DATE							
		NTS		FEBRUARY, 2022							
		DWG # 03									



PROJECT TITLE	
DESIGN OF STAFF QUARTER (G+2), AT TSENKHARI, NANGLAM	
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
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/NANGKHOR/SD
DWG # 04

DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGLAM	
DRAWING STATUS	<div>APPROVAL <input type="checkbox"/></div> <div>APPROVED <input type="checkbox"/></div>

ARTER (G+2) AT
NGLAM

T	ED <input type="checkbox"/>
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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
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	DORJI KINLEY EXECUTIVE ENGINEER TD, BPC
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REFER DRAWING	
SCALE	DATE
NTS	FEBRUARY, 2022

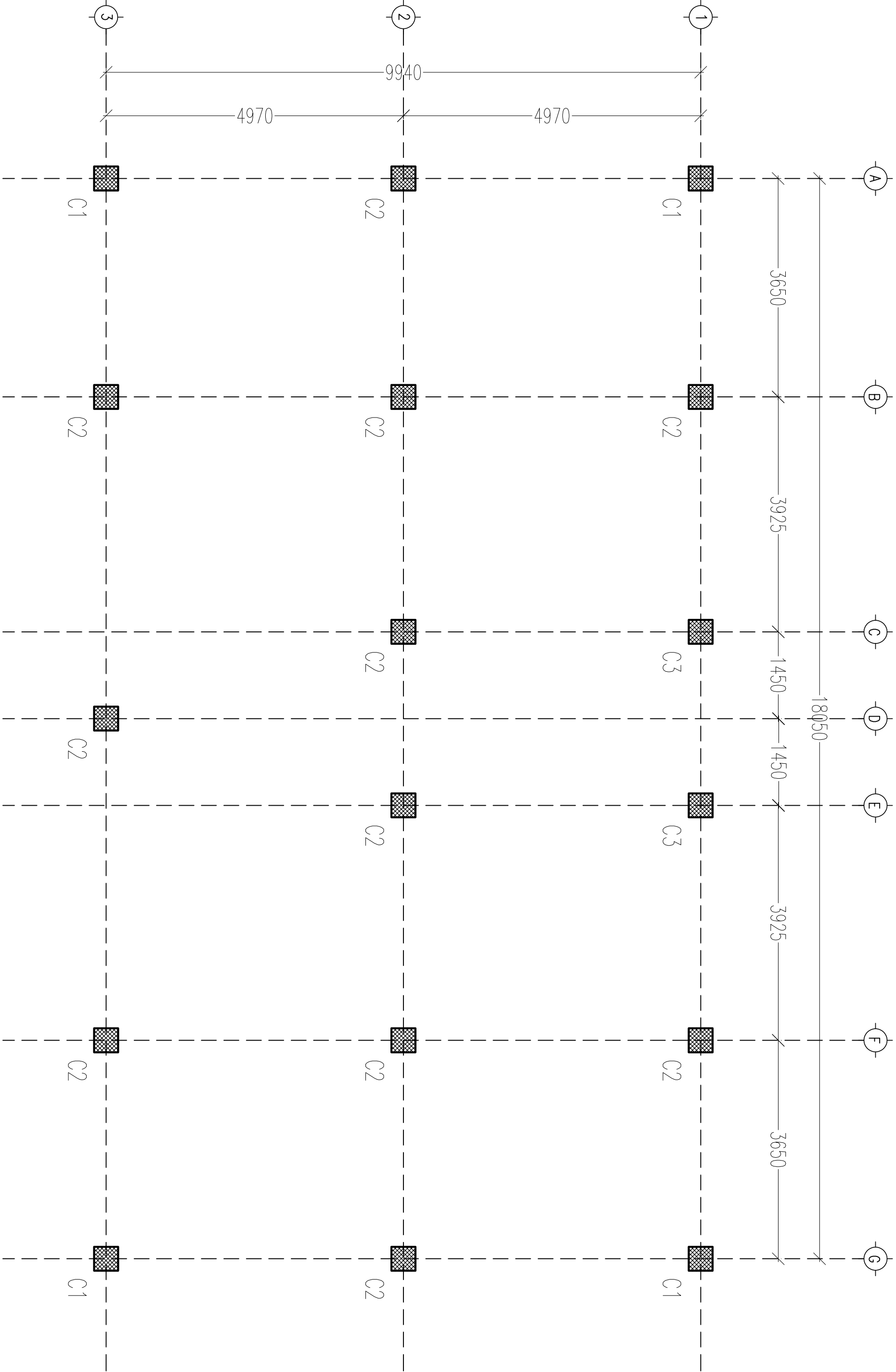
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REFER DRAWING	
SCALE	DATE
NTS	FEBRUARY, 2022

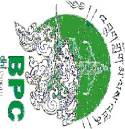
BPC/TD/TMD/NANGKHOR/SD
DWG # 04

BPC/TD/TMD/NANGKHOR/SD
DWG # 04





COLUMN LAYOUT PLAN



BHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT

PROJECT TITLE

DESIGN OF STAFF QUARTER (G+2) AT
TSENKHARL, NANGLAM

REFERENCE NOTES

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APPROVED BY

KUNZANG TOBGYE
GENERAL MANAGER
TD, BPC

DESIGNED BY

DORJI KINLEY
EXECUTIVE ENGINEER
TD, BPC

DRAWING TITLE

REFER DRAWING

DRAWING NO.

BPC/TD/TMD/NANGKHORSD

DRAWING STATUS

APPROVAL ☐

APPROVED ☐

SCALE

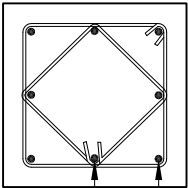
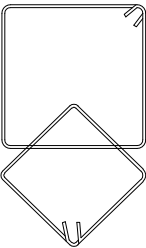
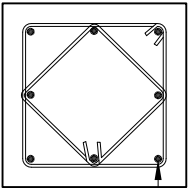
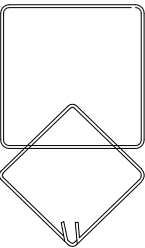
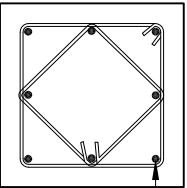
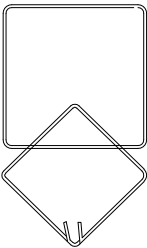
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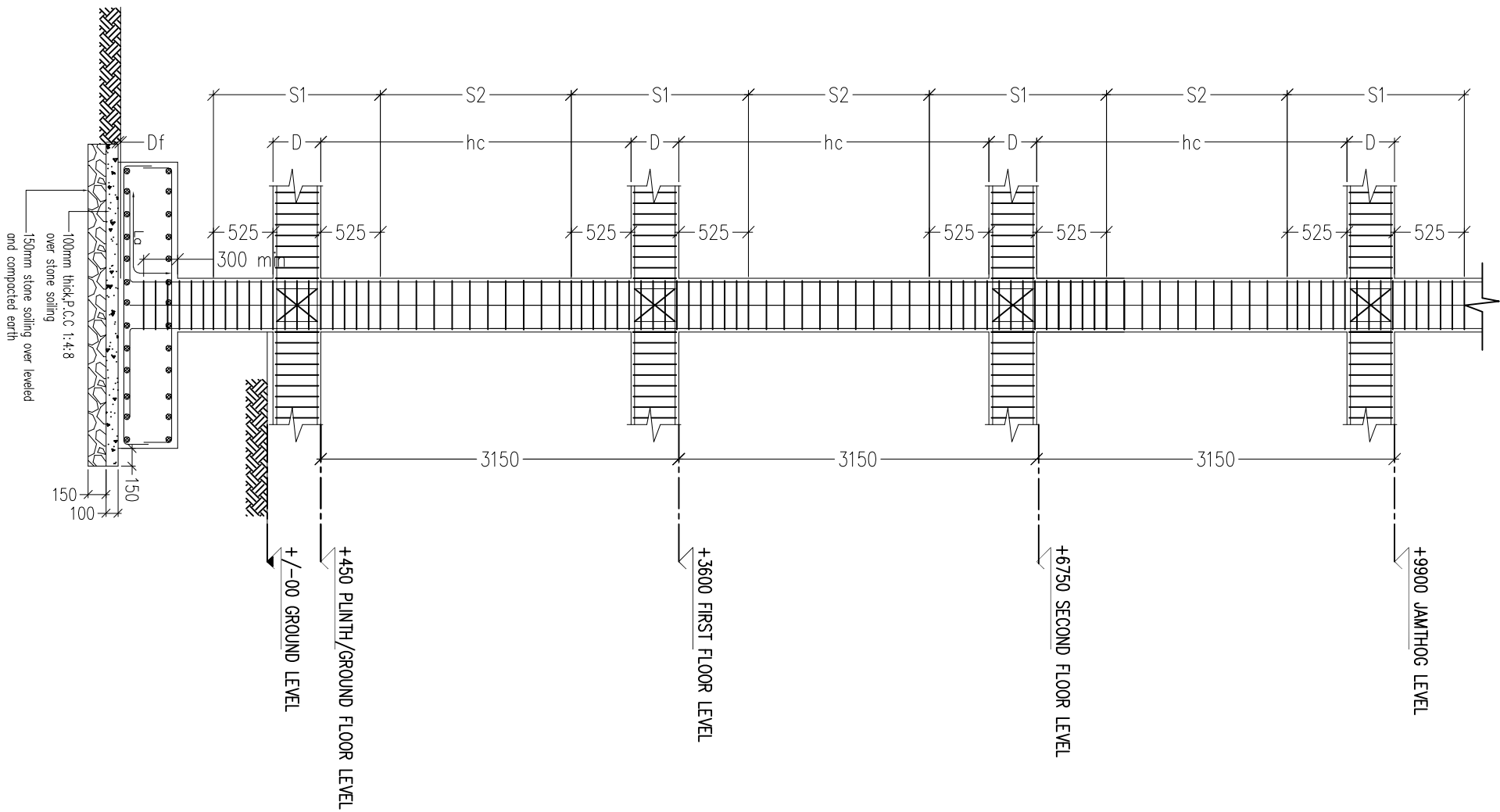
DATE

FEBRUARY, 2022


DWG # 05

SCHEDULE OF COLUMNS

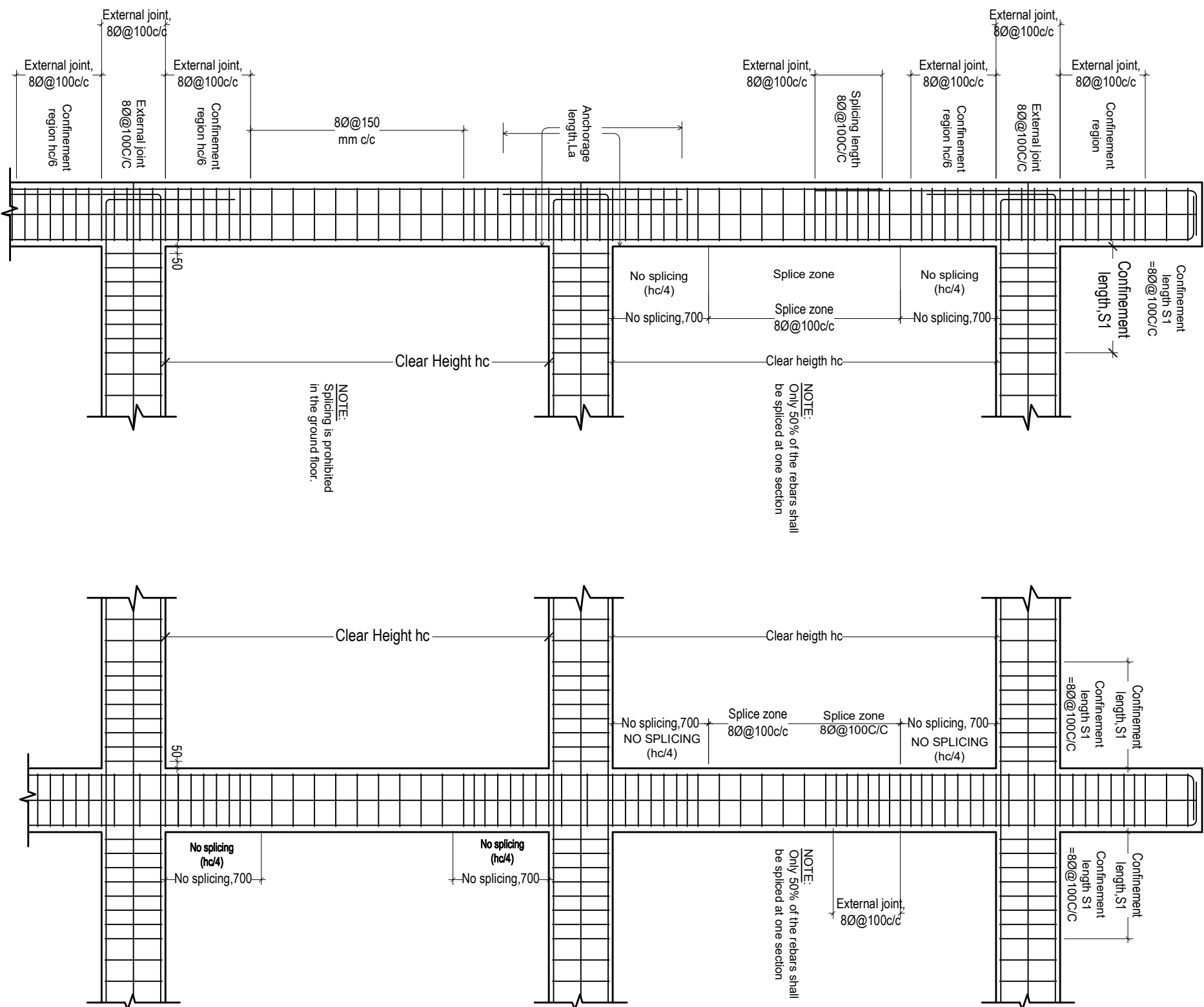
SL.NO	COLUMN	SIZE	REINFORCEMENT DWG			SECTIONS	STIRRUP SHAPES
			LONGITUDINAL	CONFINING TIES	NORMAL TIES		
1	C1	400x400	20MT, 4 NOS + 16MT, 4 NOS	8Ø@100mm c/c	8Ø@ 150mm c/c	 <p>4-20Ø 4-16Ø</p>	
2	C2	400x400	20MT, 8 NOS	8Ø@100mm c/c	8Ø@ 150mm c/c	 <p>8-20Ø</p>	
3	C3	400x400	20MT, 8 NOS	8Ø@100mm c/c	8Ø@ 100mm c/c	 <p>8-20Ø</p>	



TYPICAL COLUMN DETAILS

			
BHUTAN POWER CORPORATION LIMITED			
TRANSMISSION DEPARTMENT			
PROJECT TITLE			
DESIGN OF STAFF QUARTER (G+2) AT TSENKHARI, NANGLAM			
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	
		DORJI KINLEY EXECUTIVE ENGINEER T.D. BPC	
		DRAWING TITLE	
		REFER DRAWING	
		SCALE	
		DATE	
		NTS	
		FEBRUARY, 2022	
		DWG # 06	
		BPC/TD/TMD/NANGKHORSI	

TYPICAL COLUMN REBAR AND SPlicing DETAILS



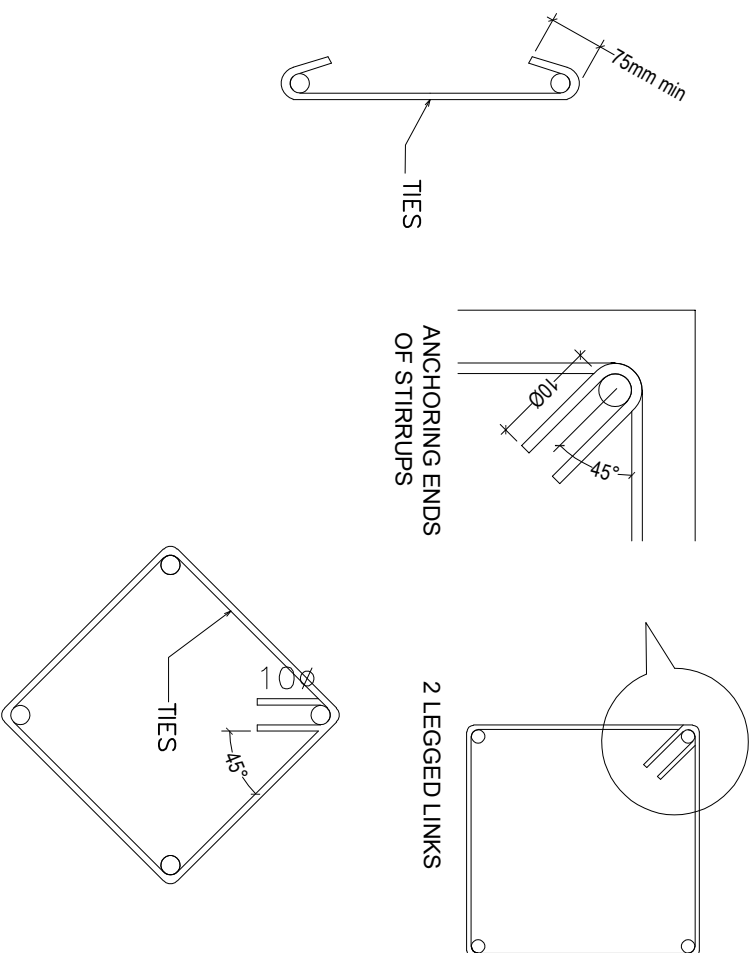
Material specifications:

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 TSENKHAR, NANGLAM	
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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APPROVED BY
KUNZANG TOBGYE GENERAL MANAGER TD, BPC

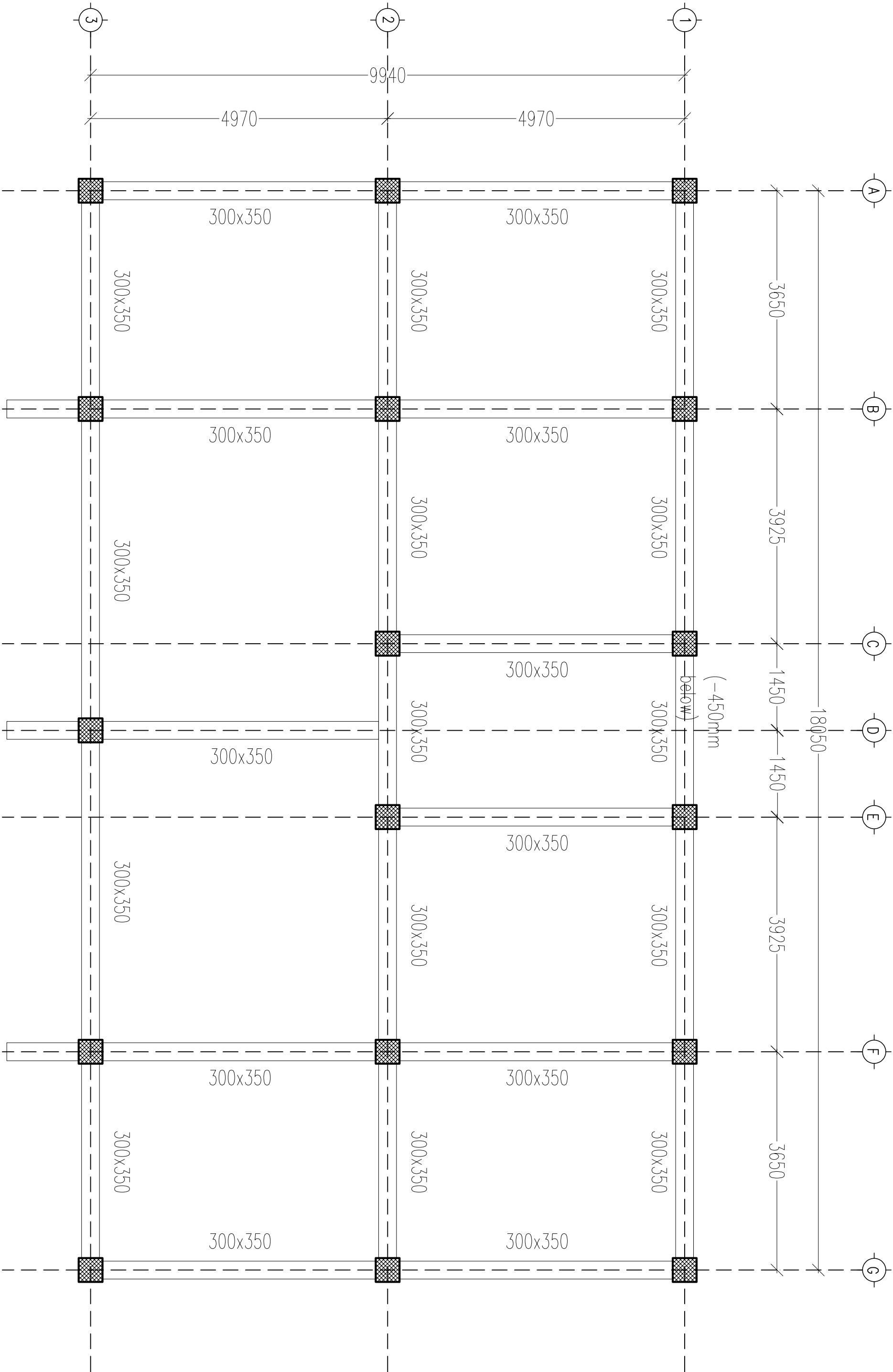
DESIGNED BY
DORI KINLEY EXECUTIVE ENGINEER TD, BPC

DRAWING TITLE	
REFER DRAWING	
SCALE	DATE
NTS	FEBRUARY, 2022


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

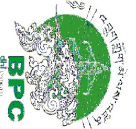
BEAM NOTES:

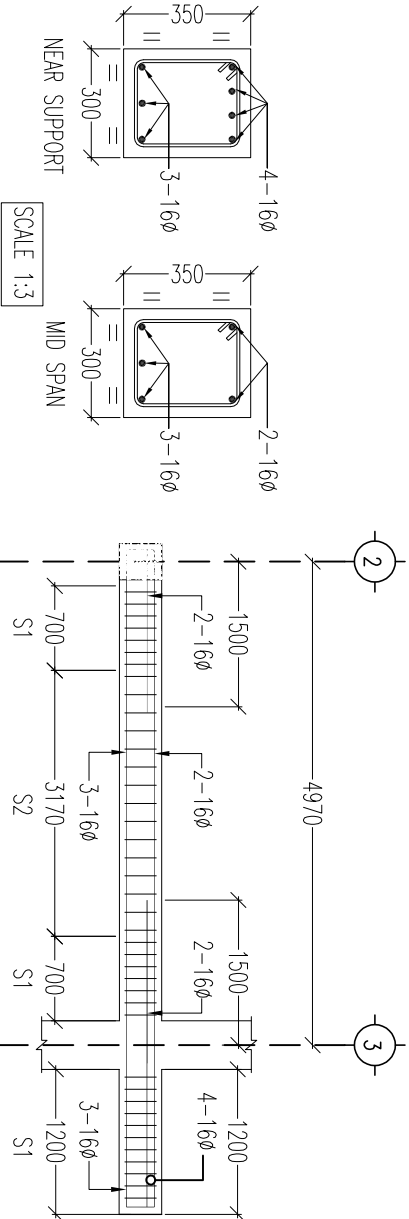
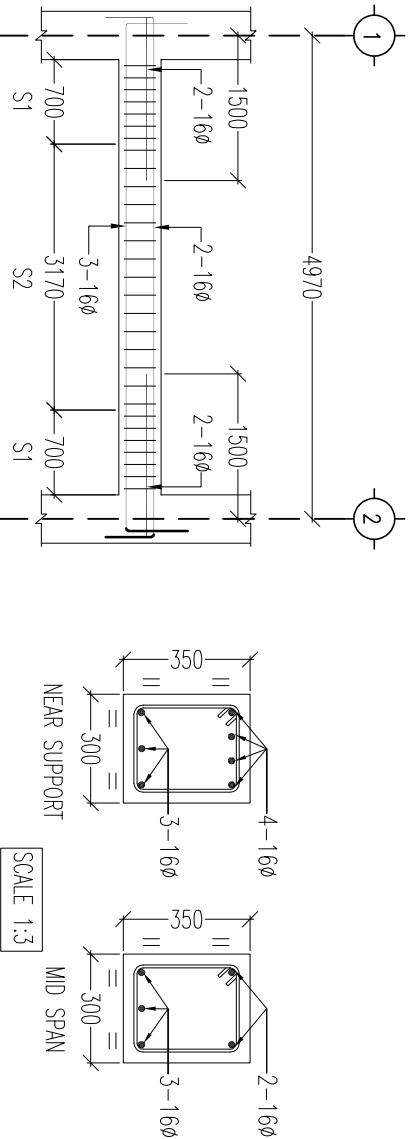
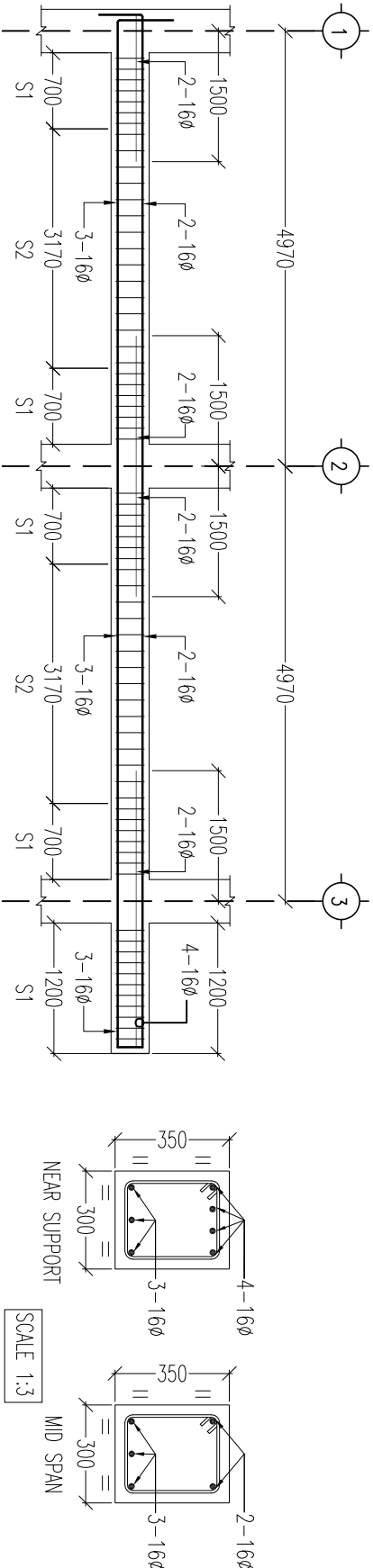
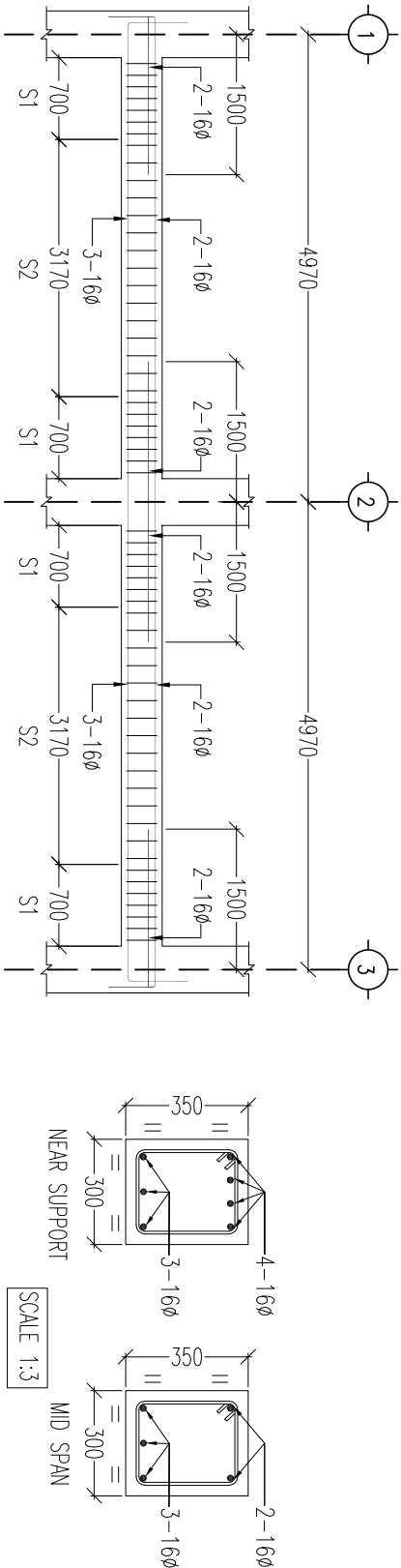
1. The longitudinal rebar of beam shall be anchored in to the column by length L_d (anchorage length) of the rebar as specified in the table
2. Stirrups/hoops of 8Ø rebars–135 degrees, with an extension of $10 \times \phi$, and it shall be embedded in the confined core of the section
3. Lap splice for 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 8Ø@100mm c/c shall be provided up to the distance of $2D$ from the column face, where D = total depth of beam
9. Stirrups of 8Ø@100mm 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



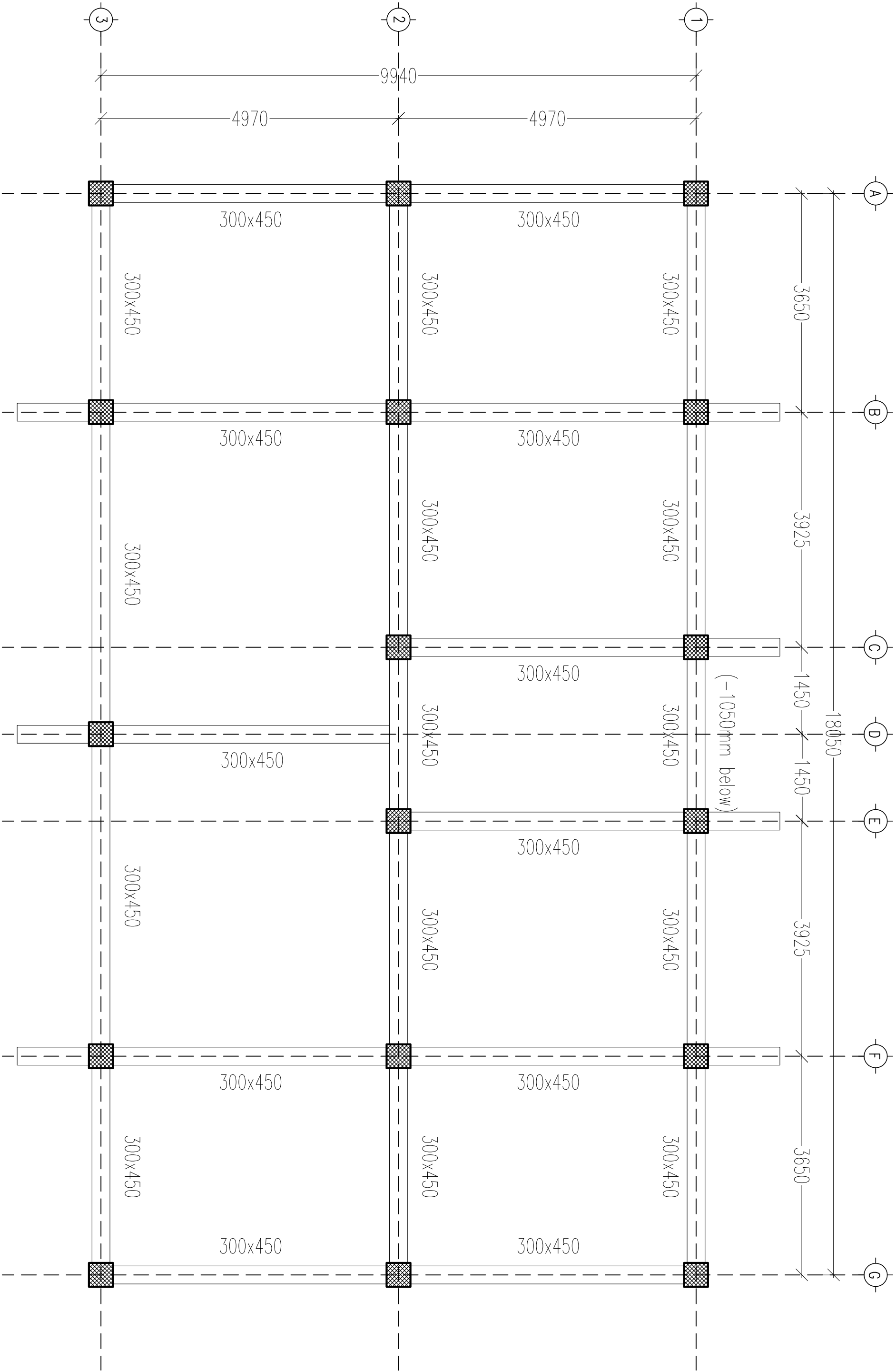
PLINTH BEAM LAYOUT PLAN AT LVL+ 0.45M

<div><div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབྲུག་ཤར་གཞི་རྒྱུ་ཁྲིམས་ལྟར་</div><div>འབ</div></div></div>	
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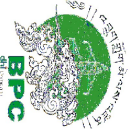
		BHUTAN POWER CORPORATION LIMITED		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
TRANSMISSION DEPARTMENT		DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGI, LAM		DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGI, LAM		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS 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/NANGKHOR/SD	
		DRAWING STATUS		APPROVAL <input type="checkbox"/>		APPROVED <input type="checkbox"/>						SCALE		DATE	
												REF DWG		FEBRUARY, 2022	
														DWG # 11	

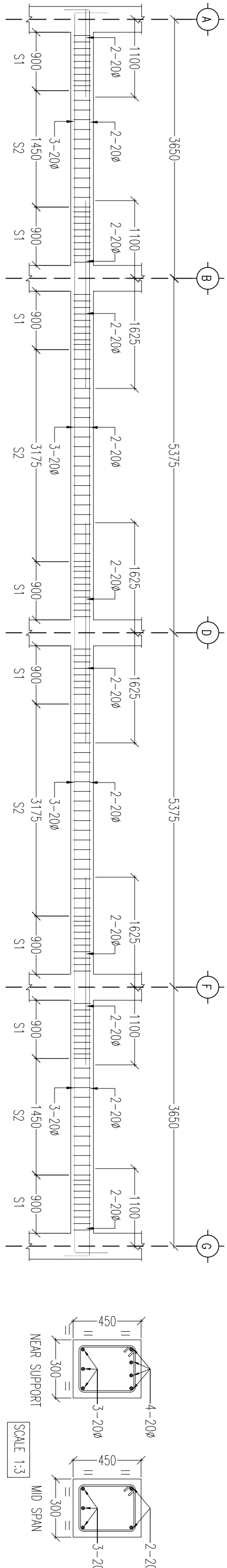
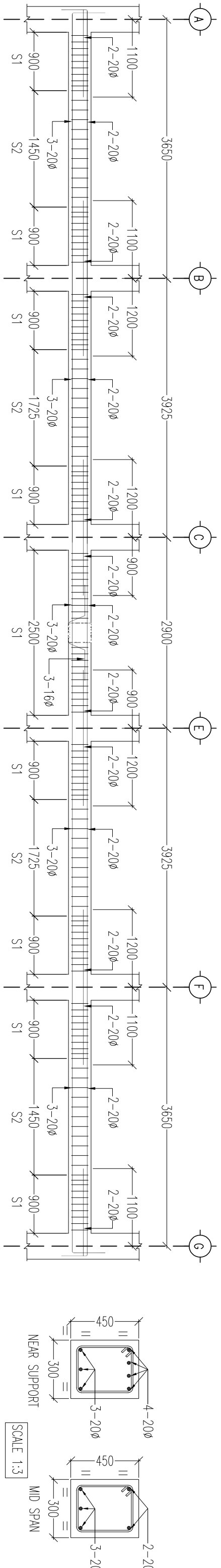
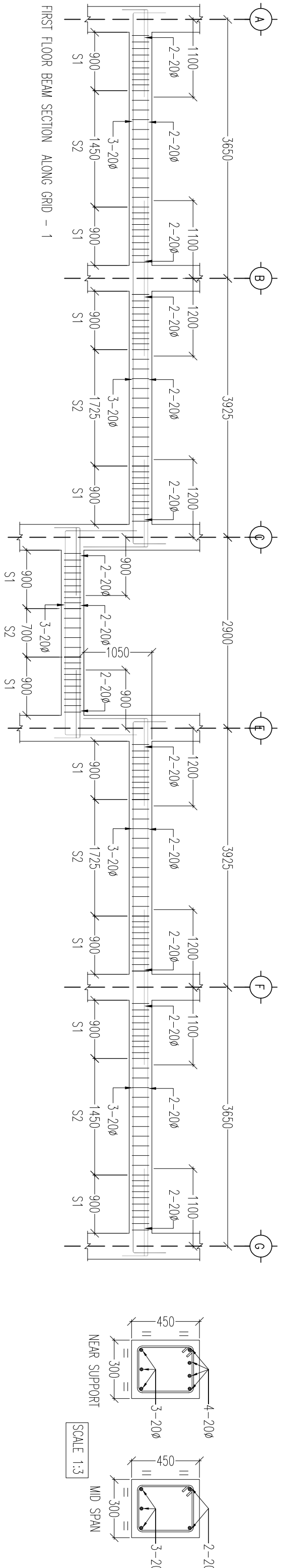


NOTES:-
-S2=L-2S1=8Ø @ 150 C/C
-S1=2D=8Ø 100 C/C
(D - OVERALL DEPTH OF BEAM)
-THE FIRST STIRRUP IS PLACED 50MM FROM THE FACE OF COLUMN



FIRST FLOOR BEAM LAYOUT PLAN AT LVL + 3.60M

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



DESIGN OF STAFF QUARTER (G+2) AT

DECLINING, INCREASING

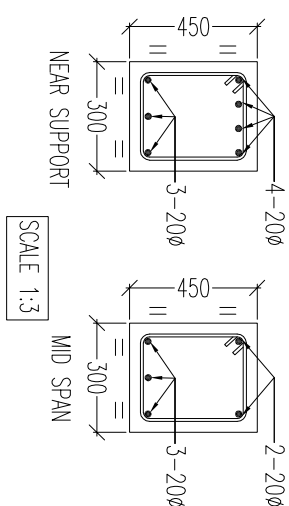
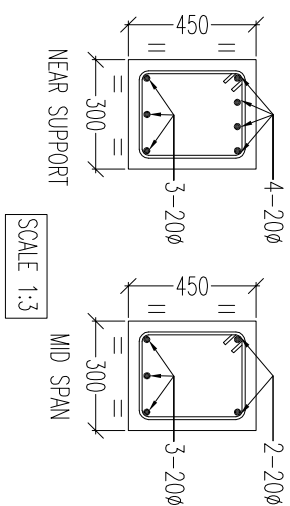
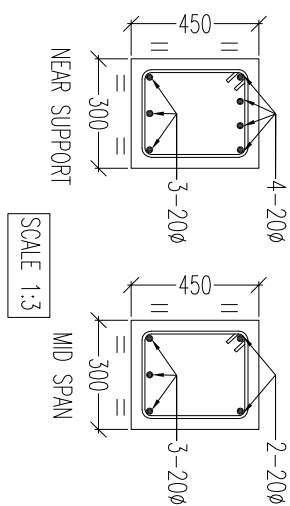
DRAWING TITLE

D R A W I N G N O.

REFER DR A WING

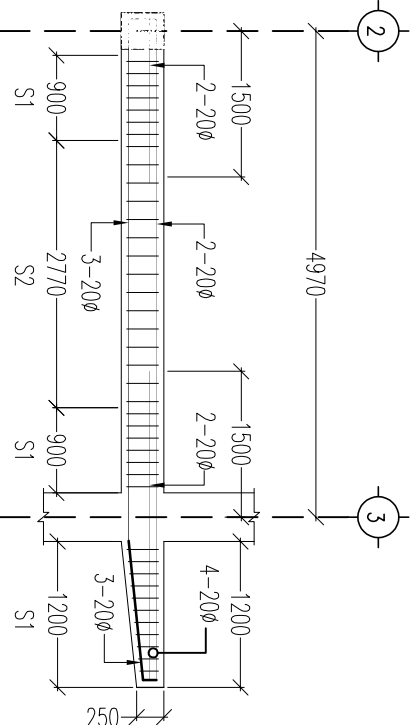
SCALE	DATE
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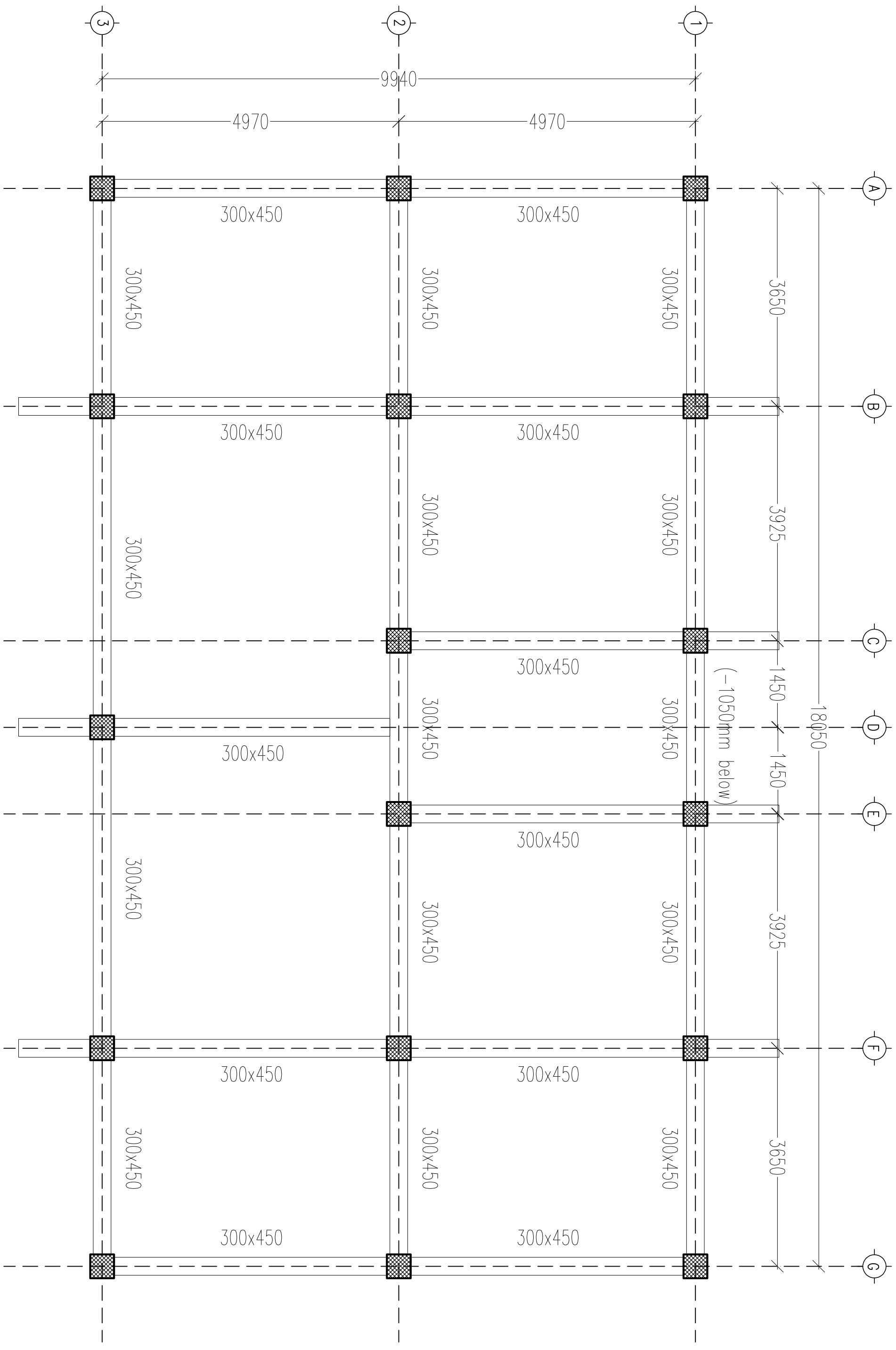
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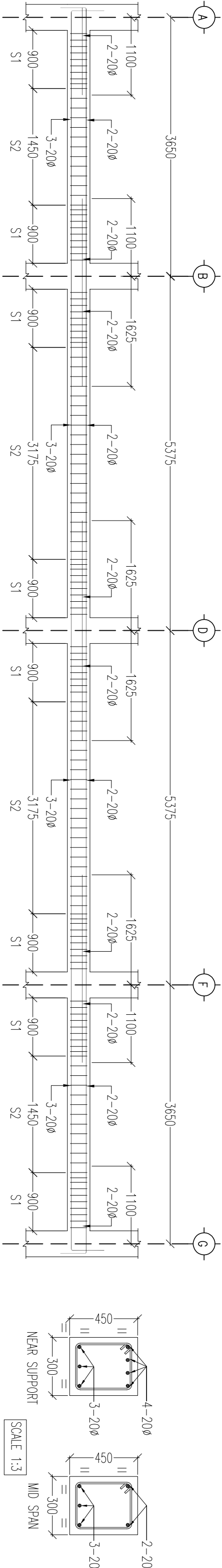
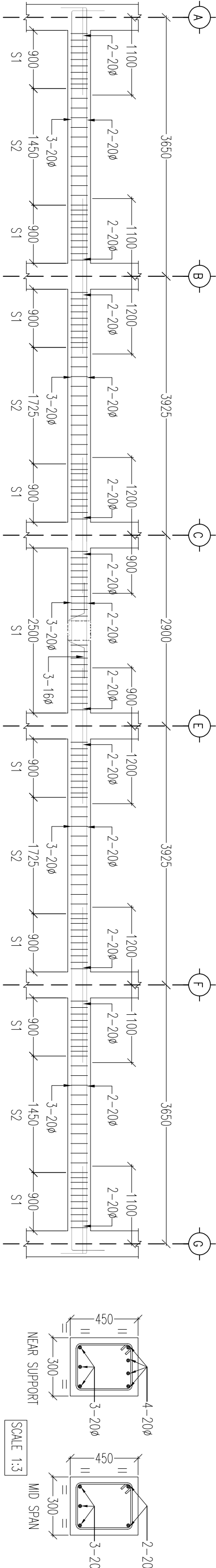
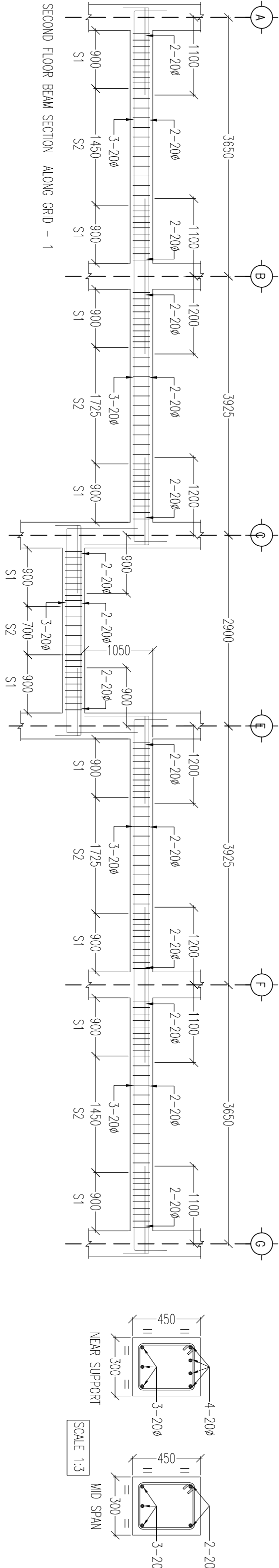
NOTES:-

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






SECOND FLOOR BEAM LAYOUT PLAN AT LVL+ 6.75M



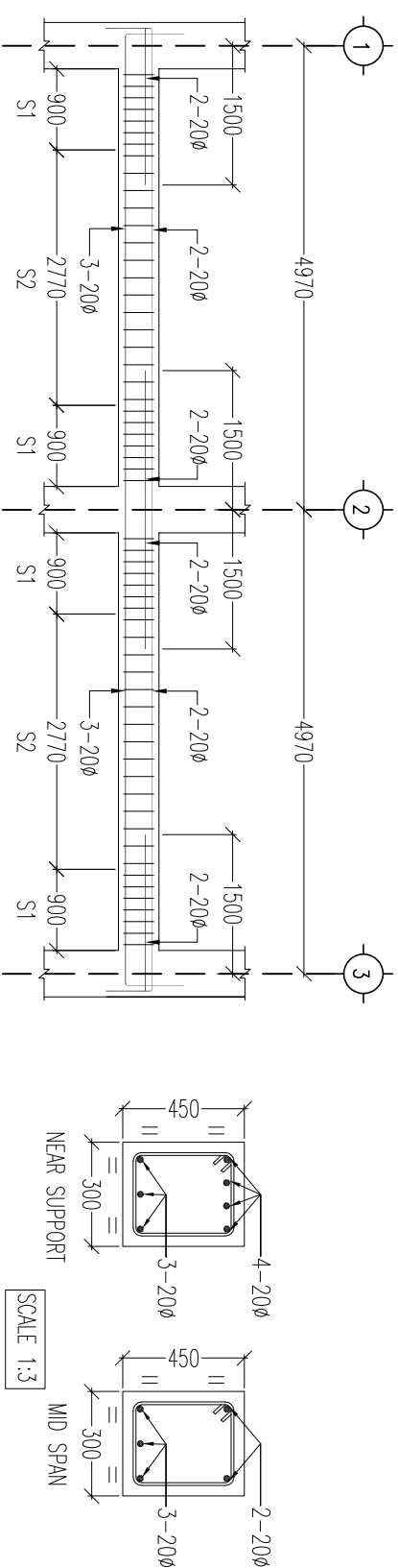
NOTES:-
-S2=L-2S1=8Ø @ 150 C/C
-S1=2D=8Ø 100 C/C
(D- OVERALL DEPTH OF BEAM)
-THE FIRST STIRRUP IS PLACED 50MM FROM THE FACE OF COLUMN

	BHUTAN POWER CORPORATION LIMITED	
	TRANSMISSION DEPARTMENT	
PROJECT TITLE	DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGLAM	
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	DRAWING NO.
SCALE	DATE	BPC/TD/TMD/NANGKHORS/DWG # 16
REF DWG	FEBRUARY, 2022	

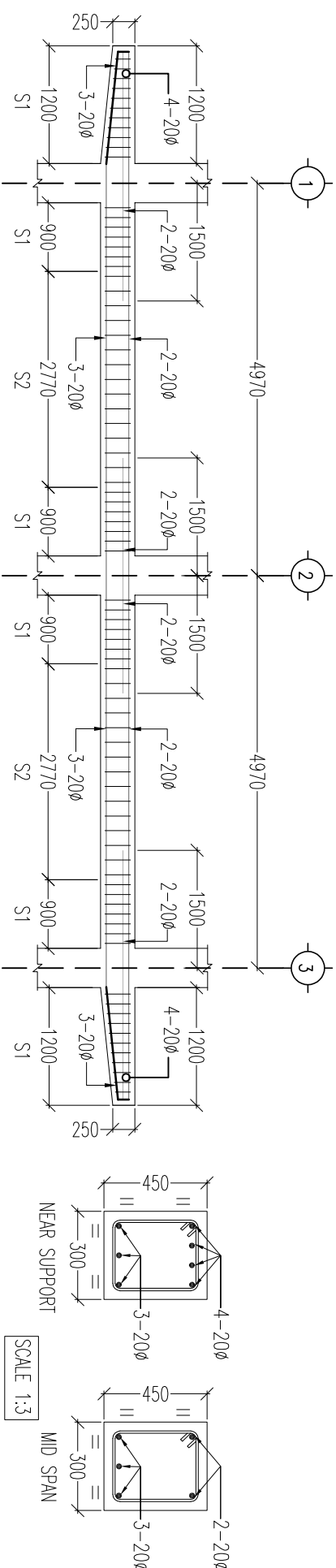


BPC/TD/TMD/NANGKHOR/SD

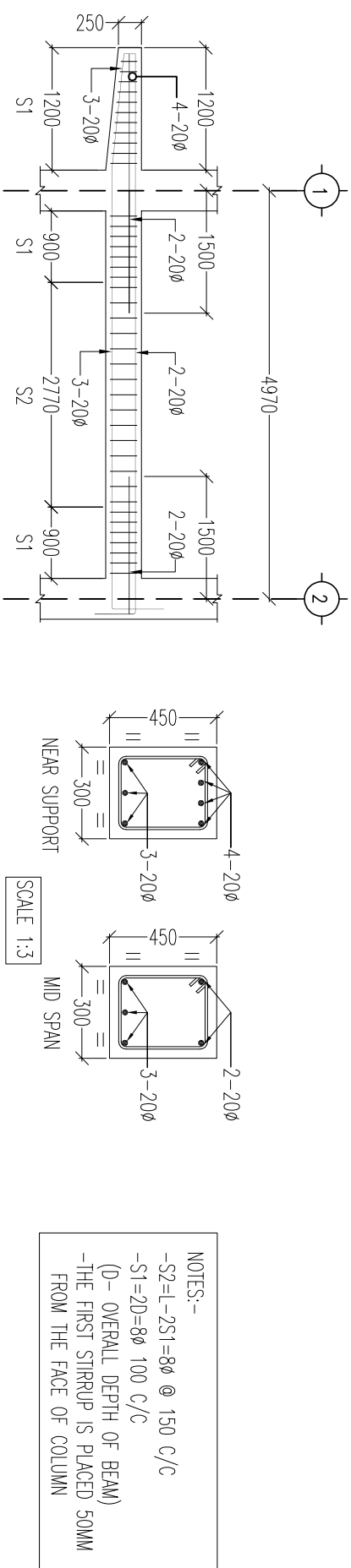
DWC # 17



SECOND FLOOR BEAM SECTION ALONG GRID - A & G



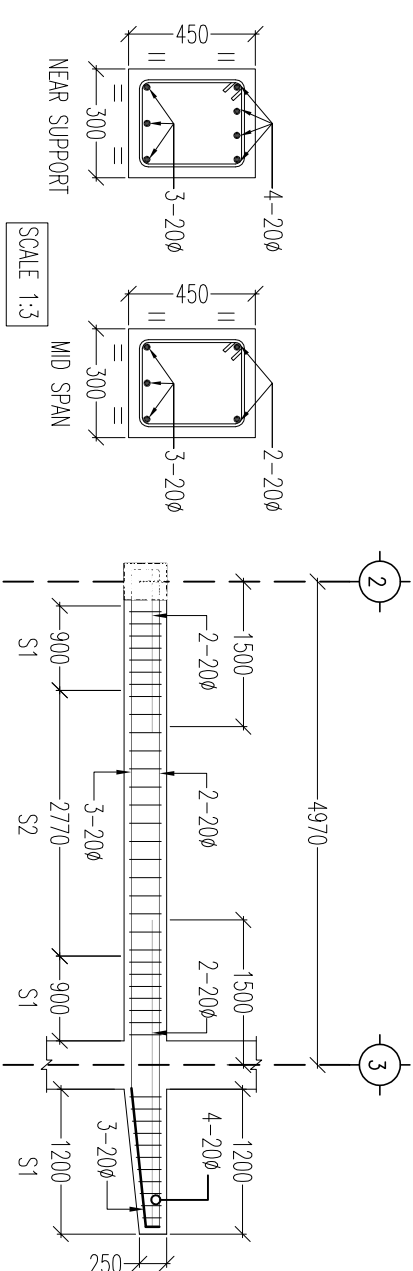
SECOND FLOOR BEAM SECTION ALONG GRID - B & F



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

PROJECT TITLE	REFERENCE NOTES		APPROVED BY	DESIGNED BY	DRAWING TITLE	DRAWING NO.
DESIGN OF STAFF QUARTER (G+2) AT TSENKHARI, NANGGLAM	1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED			DORJI KINLEY EXECUTIVE ENGINEER TD, BPC	REFER DRAWING	BPC/TD/TMD/NANGKHOR/SD
	2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED					
DRAWING STATUS	APPROVAL <input type="checkbox"/>	A PROVED <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
DWG # 17						



BHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT

PROJECT TITLE

DESIGN OF STAFF QUARTER (G+2) AT

TSENKHARI, NANGLAM

DRAWING STATUS

APPROVAL

A1

1

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

BY

DORJI KINLEY
EXECUTIVE ENGINEER
AND DRG

LE

REFER DRAWING

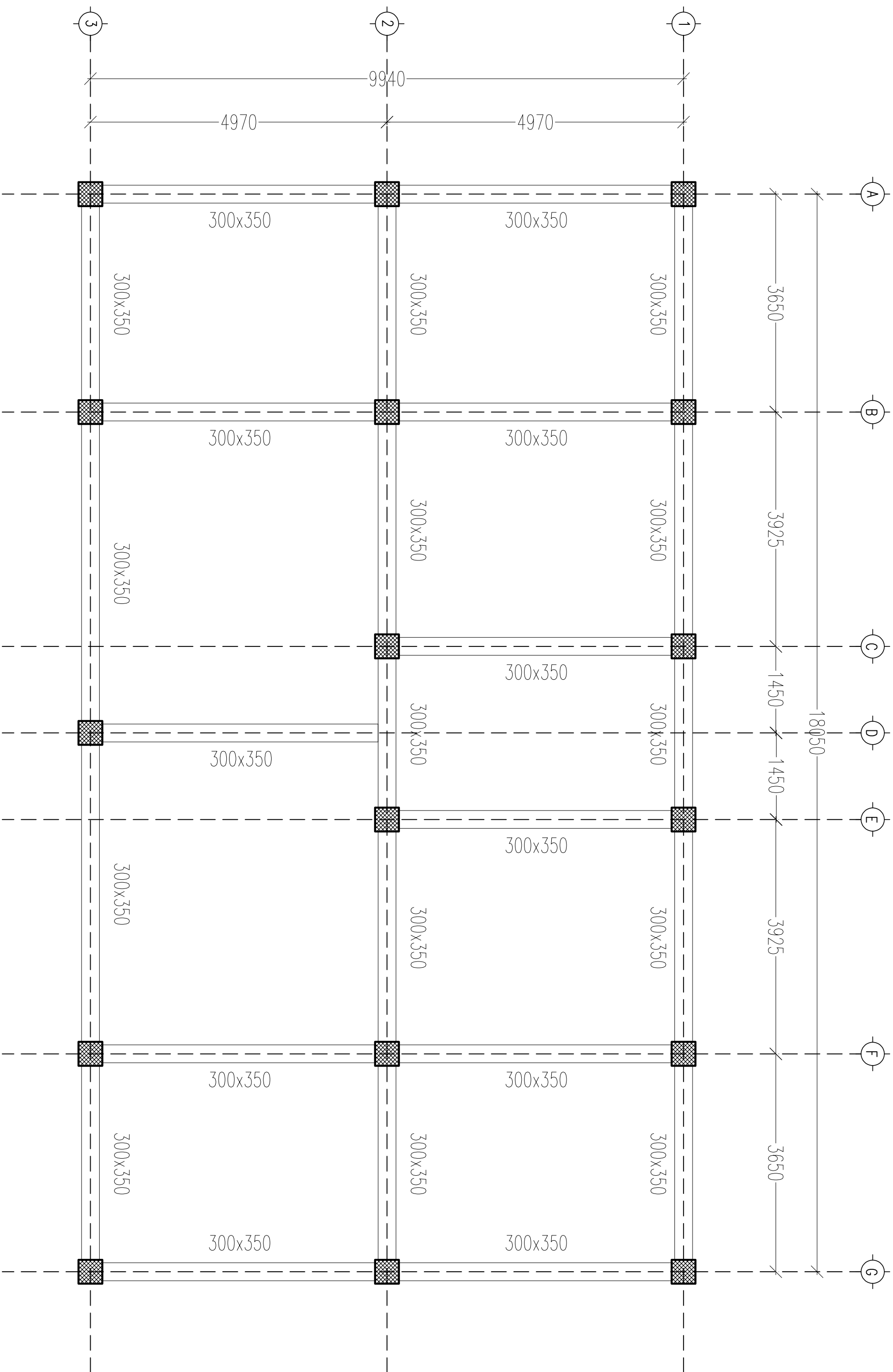
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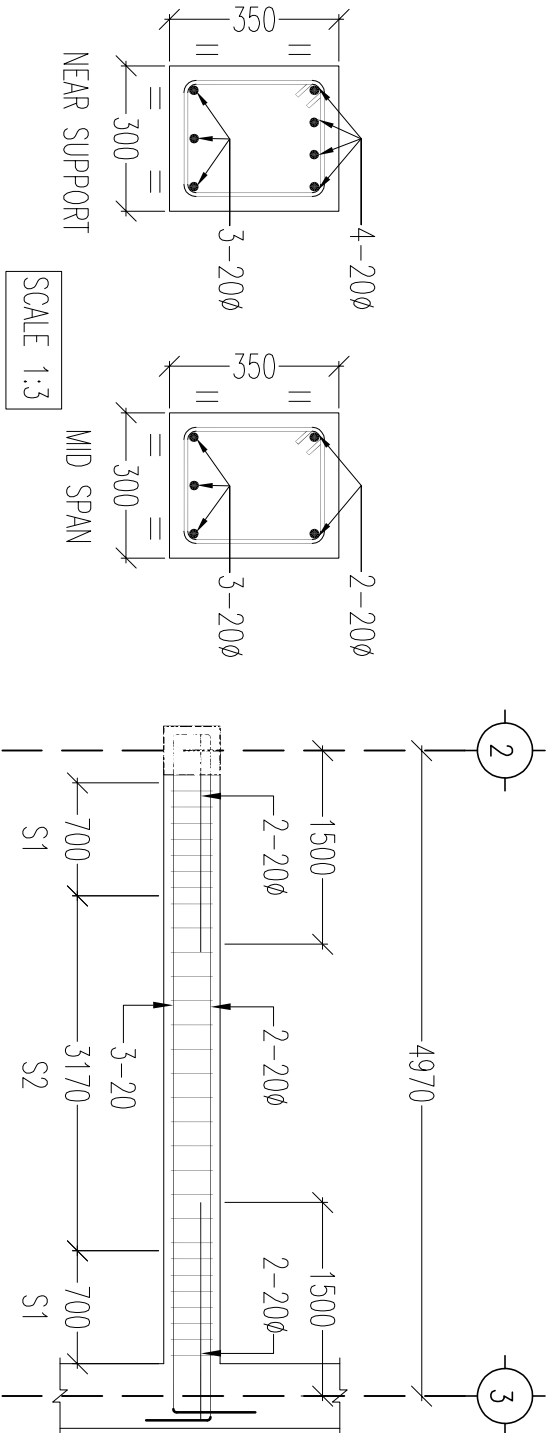
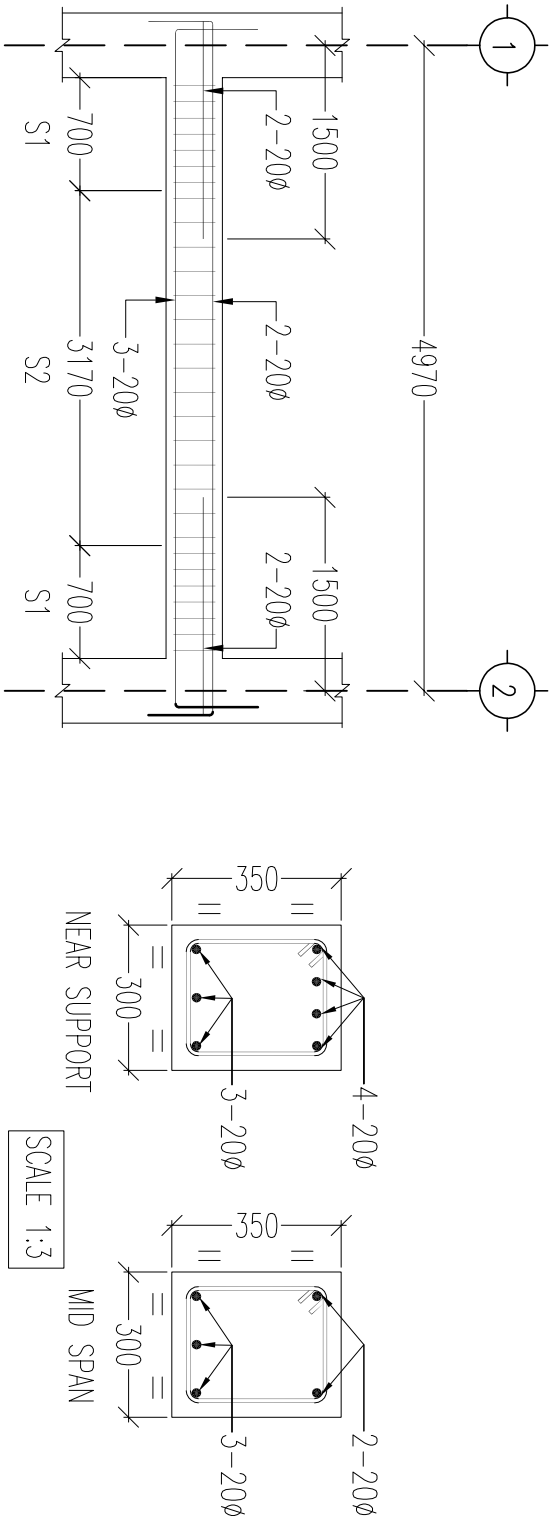
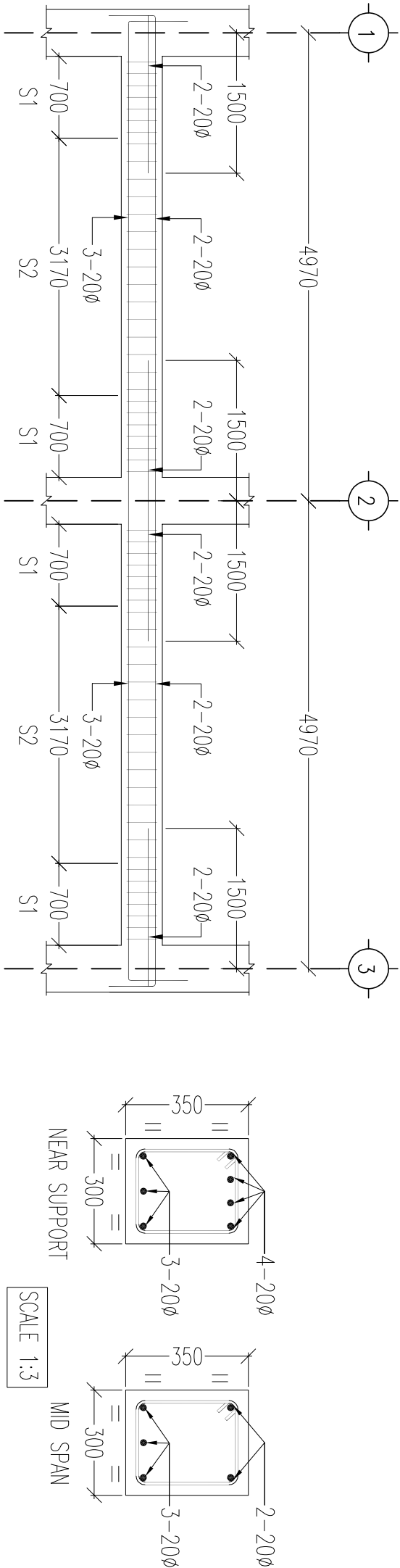
DATE _____

D R A W I N G N O.

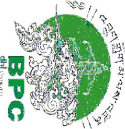
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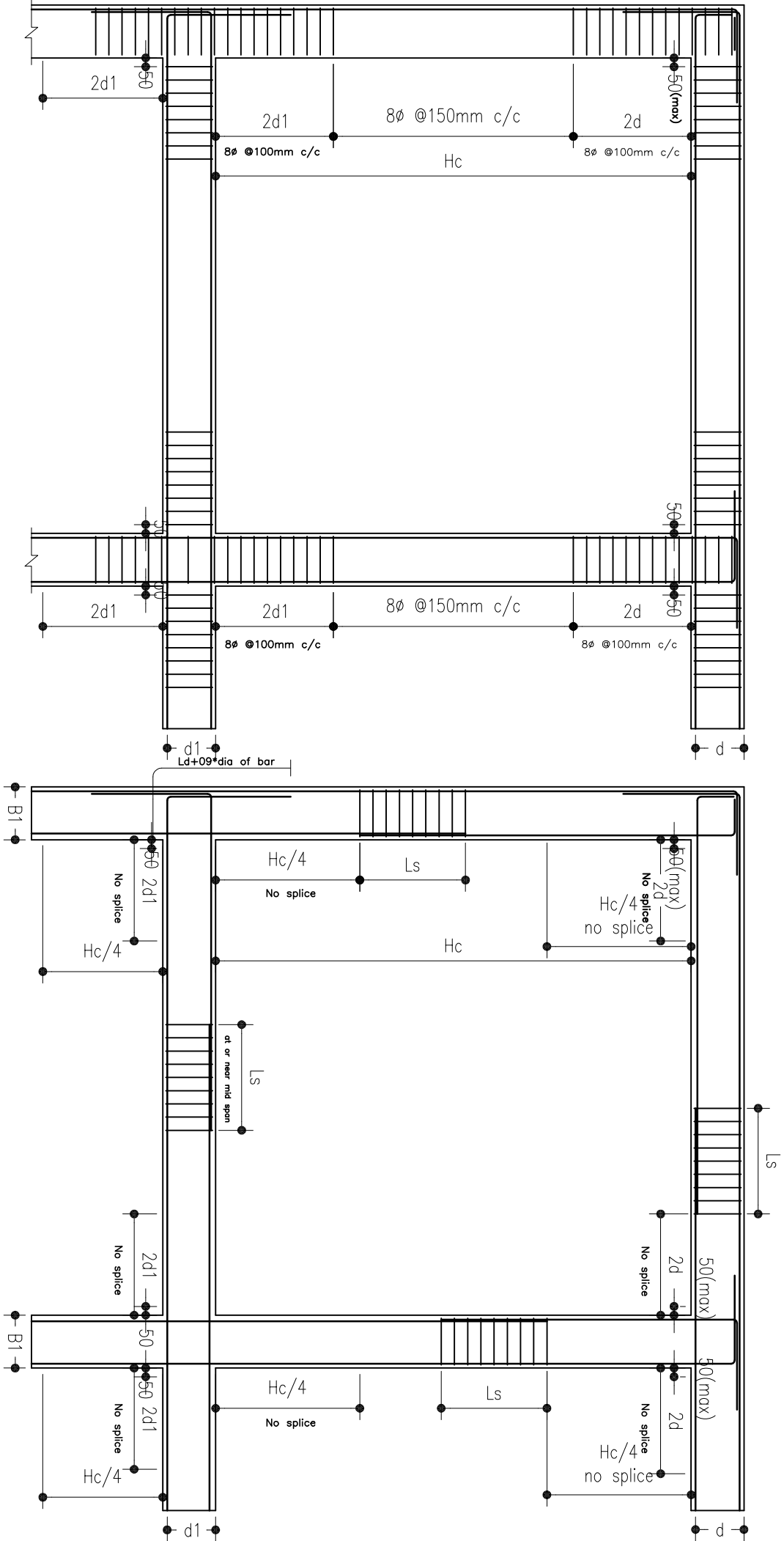
DWG # 18





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		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
	TRANSMISSION DEPARTMENT		DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGI LAM		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	
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											DWG # 20			

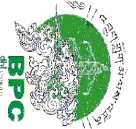


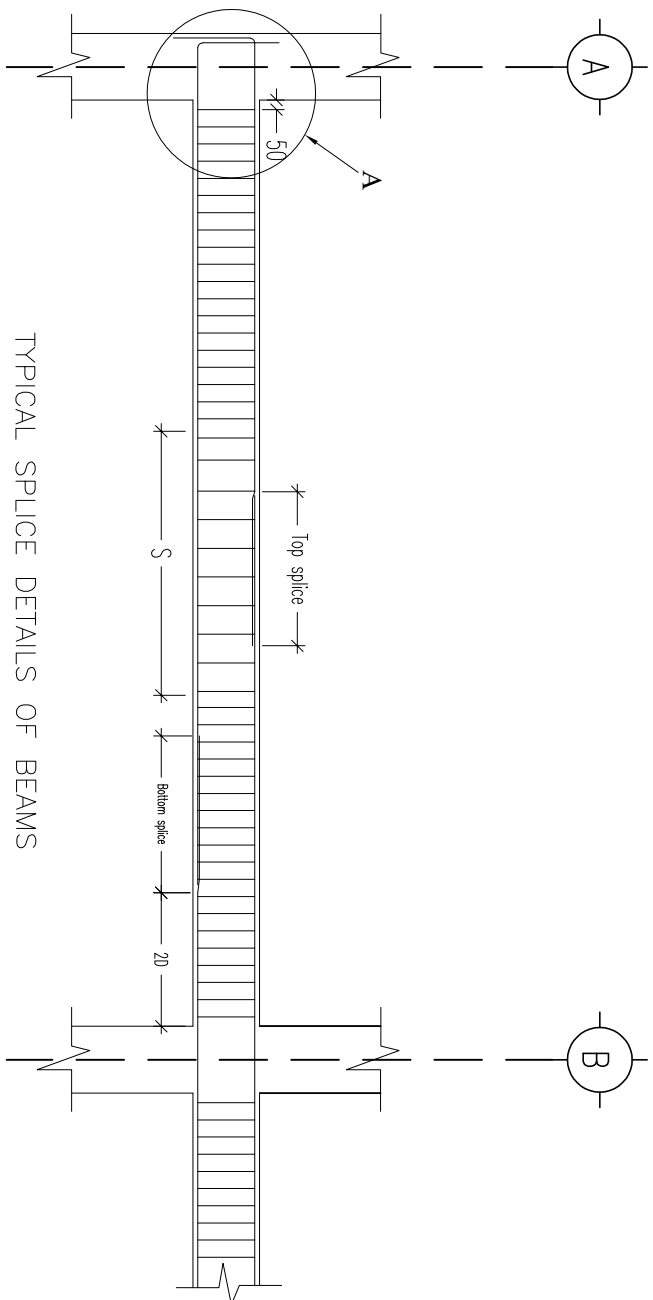
TYPICAL BEAM SPLICE AND ANCHORAGE DETAILS

NOTE:

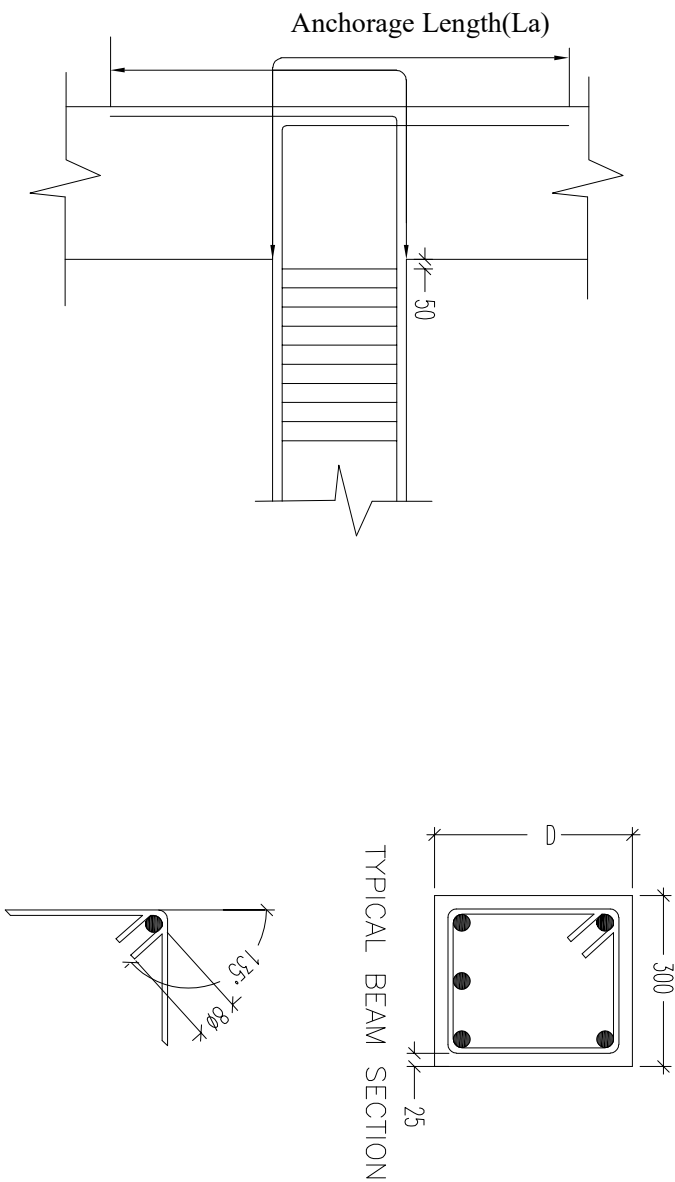
- Not more than 50% of bars be spliced at one section.
- Minimum length of splice shall be 57 times the diameter of the main bar.
- Top reinforcement shall be placed at mid-span of beam.
- Bottom reinforcement shall be spliced at a distance of 2 times the depth of beam, but shall be spliced at mid-span of the beam.
- Stirrups spacing for the full length of splice shall not exceed 100mm c/c.
- The first stirrup should be placed at 50mm from the face of the column.
- The length of stirrups in beams will not be less than the bar development length (L_d) = $\frac{57\phi}{4}$

Stirrups	
2D	8Ø @
100c/c	
S1	8Ø @
100c/c	
LS (Splices)	8Ø @
Bar Anchorage length	Bar Development length
S (Where no splices)	
(Minimum length)	(Minimum length)
10Ø = 670	10Ø = 570
12Ø = 805	12Ø = 685
16Ø = 1075	16Ø = 915
20Ø = 1340	20Ø = 1140
25Ø = 1675	25Ø = 1425

		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 TSENKHAR, NANGLAM		DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGLAM		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		BPC/TD/TMD/NANGKHORSID		DWG # 21			

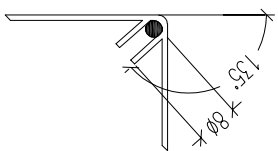


TYPICAL SPLICE DETAILS OF BEAMS




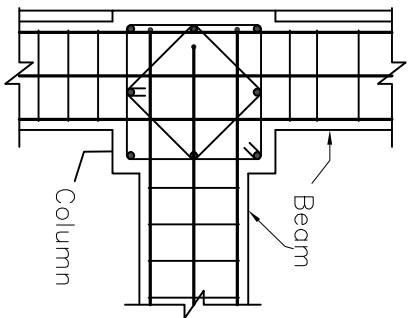
ANCHORAGE DETAILS AT -A

TYPICAL HOOK DETAILS

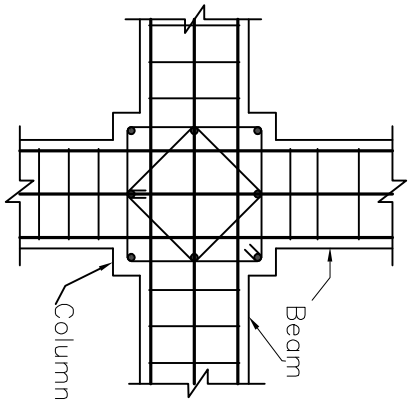


TYPICAL BEAM SPLICE AND ANCHORAGE DETAILS

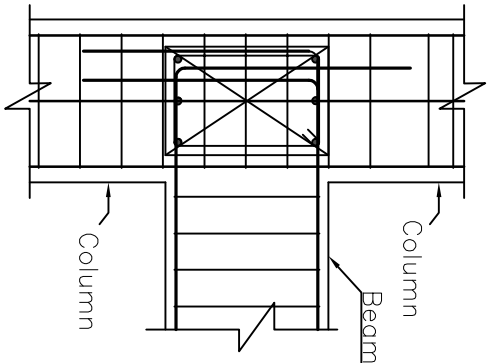
		BHUTAN POWER CORPORATION LIMITED									
TRANSMISSION DEPARTMENT											
PROJECT TITLE		DESIGN OF STAFF QUARTER (G+2) AT TSENKHARI, NANGLAM									
DRAWING STATUS		REFERENCE NOTES									
APPROVAL <input type="checkbox"/>		APPROVED BY									
AAPROVED <input type="checkbox"/>		DESIGNED BY									
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		REFER DRAWING									
		SCALE									
		DATE									
		REF DWG									
		DWG # 22									



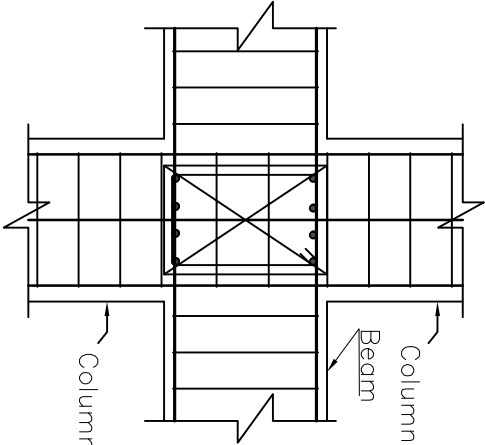
EXTERIOR, COLUMN-BEAM
JOINT(C/S)



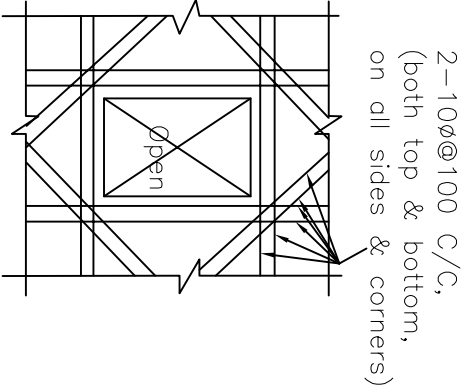
INTERIOR, COLUMN-BEAM
JOINT(PLAN)



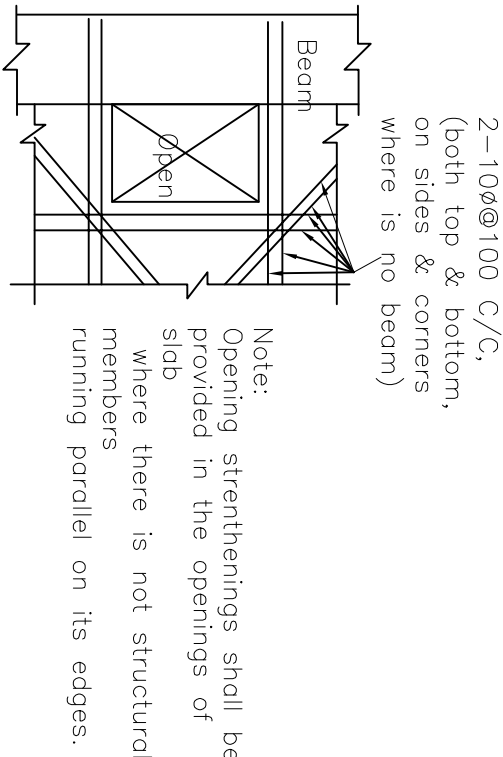
EXTERIOR, COLUMN-BEAM
JOINT(L/S)



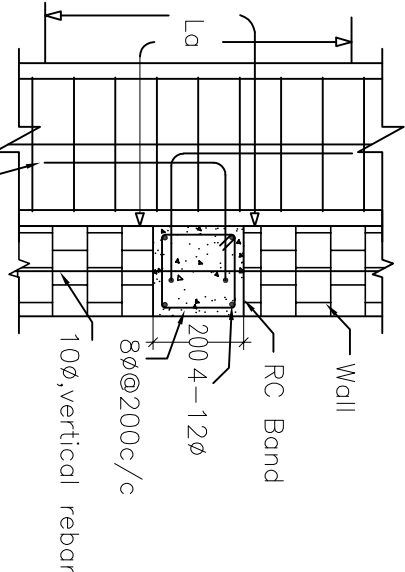
INTERIOR, COLUMN-BEAM
JOINT(L/S)



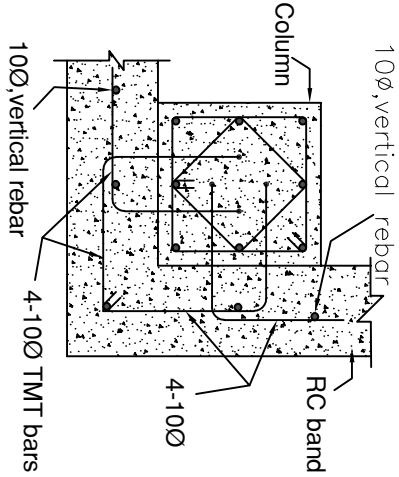
TYPICAL DETAIL FOR OPENING
IN
THE MIDDLE OF SLAB/RC WALL



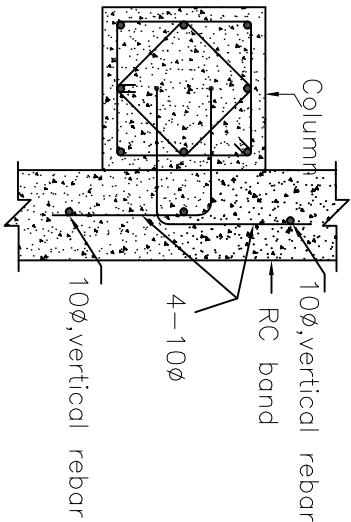
TYPICAL DETAIL FOR OPENING
NEAR BEAM/COLUMN



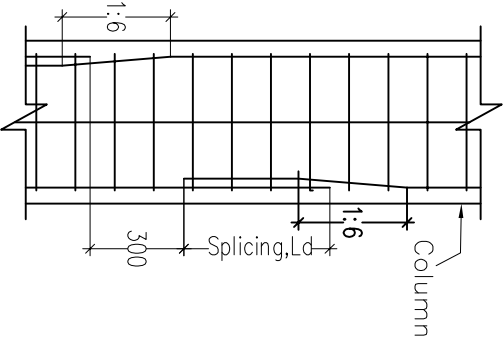
COLUMN-WALL BAND
CONNECTION(L/S)



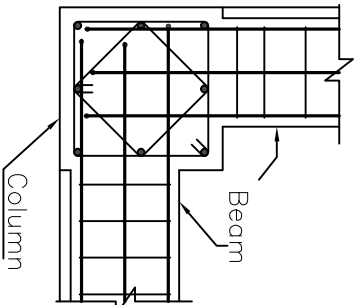
CORNER COLUMN-WALL BAND
CONNECTION (C/S)



INTERMEDIATE COLUMN-WALL
BAND CONNECTION(C/S)



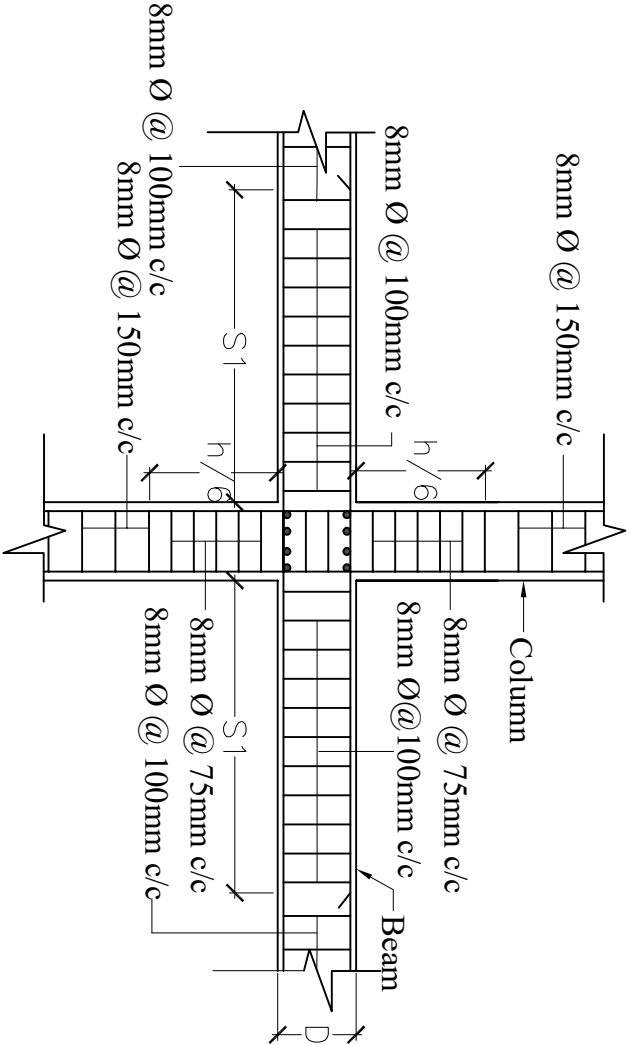
COLUMN LAP SPLICING
DETAIL(L/S)



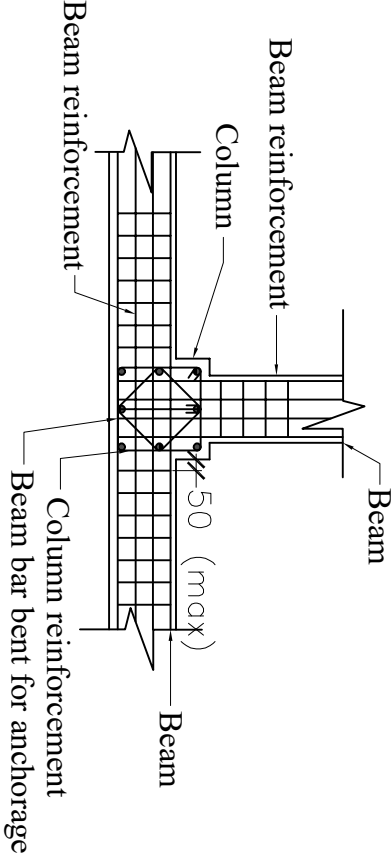
CORNER, COLUMN-BEAM
JOINT(C/S)

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 TSENKHAR, NANGLAM		DRAWING STATUS	
REFERENCE NOTES		APPROVAL		APPROVED	
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		BPC/TD/TMD/NANGKHORS/D	
SCALE		DATE		DWG # 23	
REF DWG		FEBRUARY, 2022			

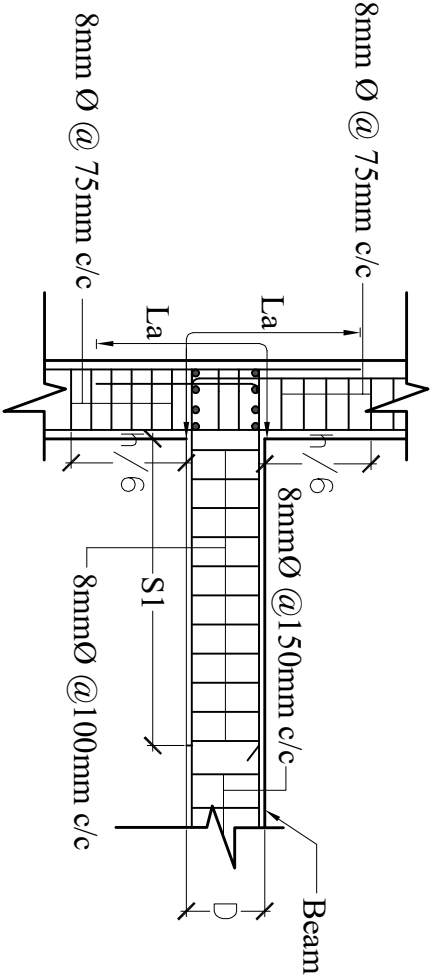


TYPICAL INTERIOR BEAM – COLUMN
CONNECTION DETAILS (SIDE VIEW)

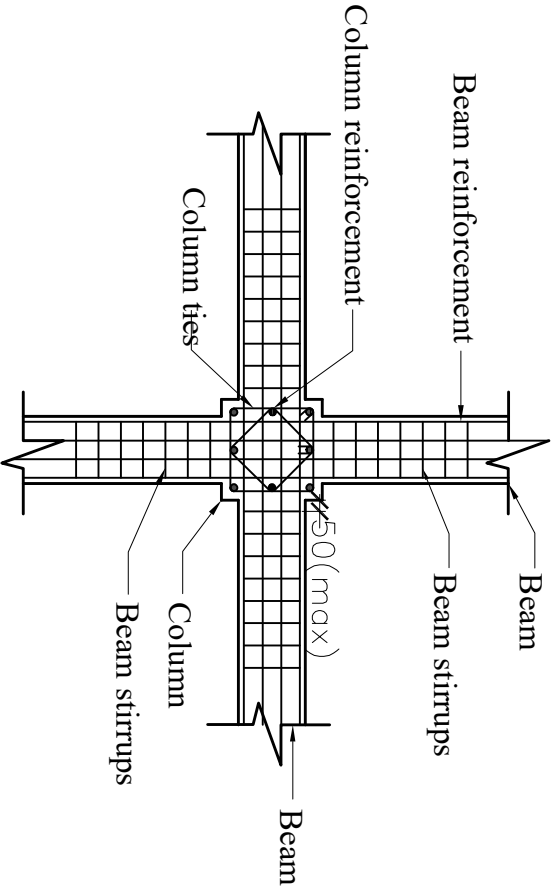


TYPICAL EXTERIOR BEAM – COLUMN
CONNECTION DETAILS (PLAN VIEW)
(SQUARE COLUMN)

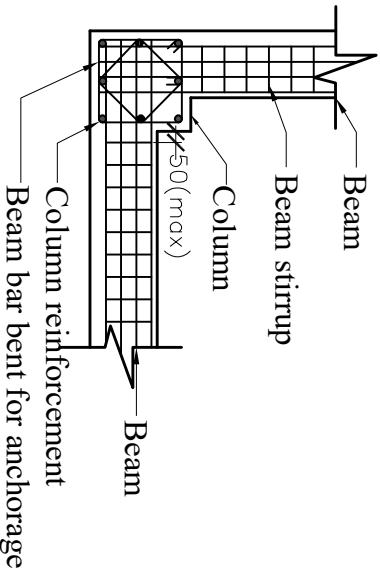
Bar Anchorage length (La) (Minimum length)	
10Ø =	670
12Ø =	805
16Ø =	1075
20Ø =	1340
25Ø =	1625



TYPICAL EXTERIOR BEAM – COLUMN
CONNECTION DETAILS (SIDE VIEW)

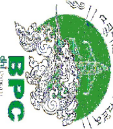


TYPICAL INTERIOR BEAM – COLUMN
CONNECTION DETAILS (PLAN VIEW)
(COLUMN)



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

BEAM COLUMN CONNECTION DETAILS

	BHUTAN POWER CORPORATION LIMITED		TRANSMISSION DEPARTMENT	
	PROJECT TITLE	DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGLAM	DRAWING STATUS	
	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	APPROVAL	APPROVED
	APPROVED BY	DESIGNED BY	SCALE	DATE
KUNZANG TOBGYE GENERAL MANAGER TD, BPC		DORJI KINLEY EXECUTIVE ENGINEER TD, BPC	REFER DRAWING	BPC/TD/TMD/NANGKHORS/D
			REF DWG	FEBRUARY, 2022
				DWG # 24



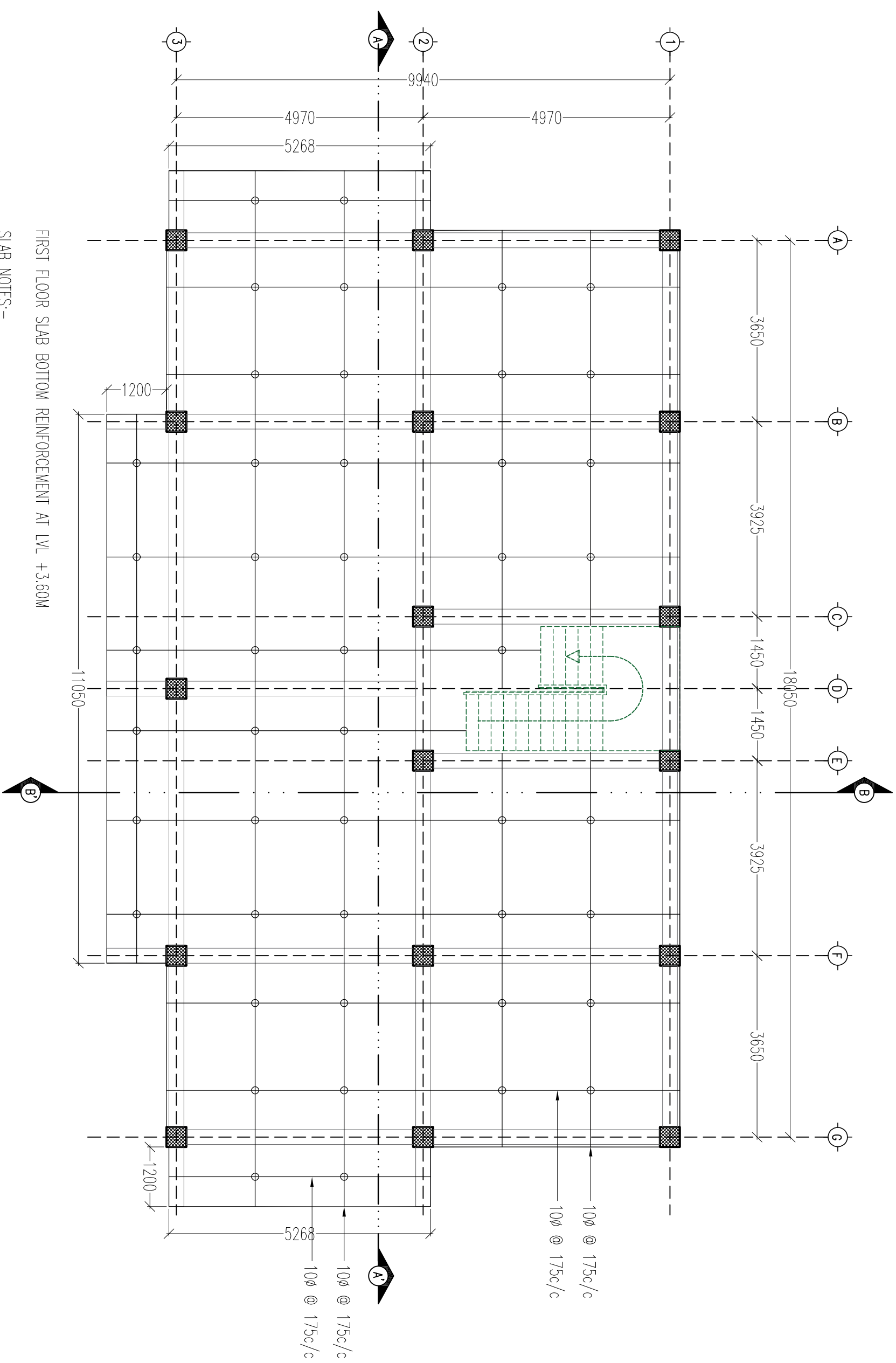
PROJECT TITLE

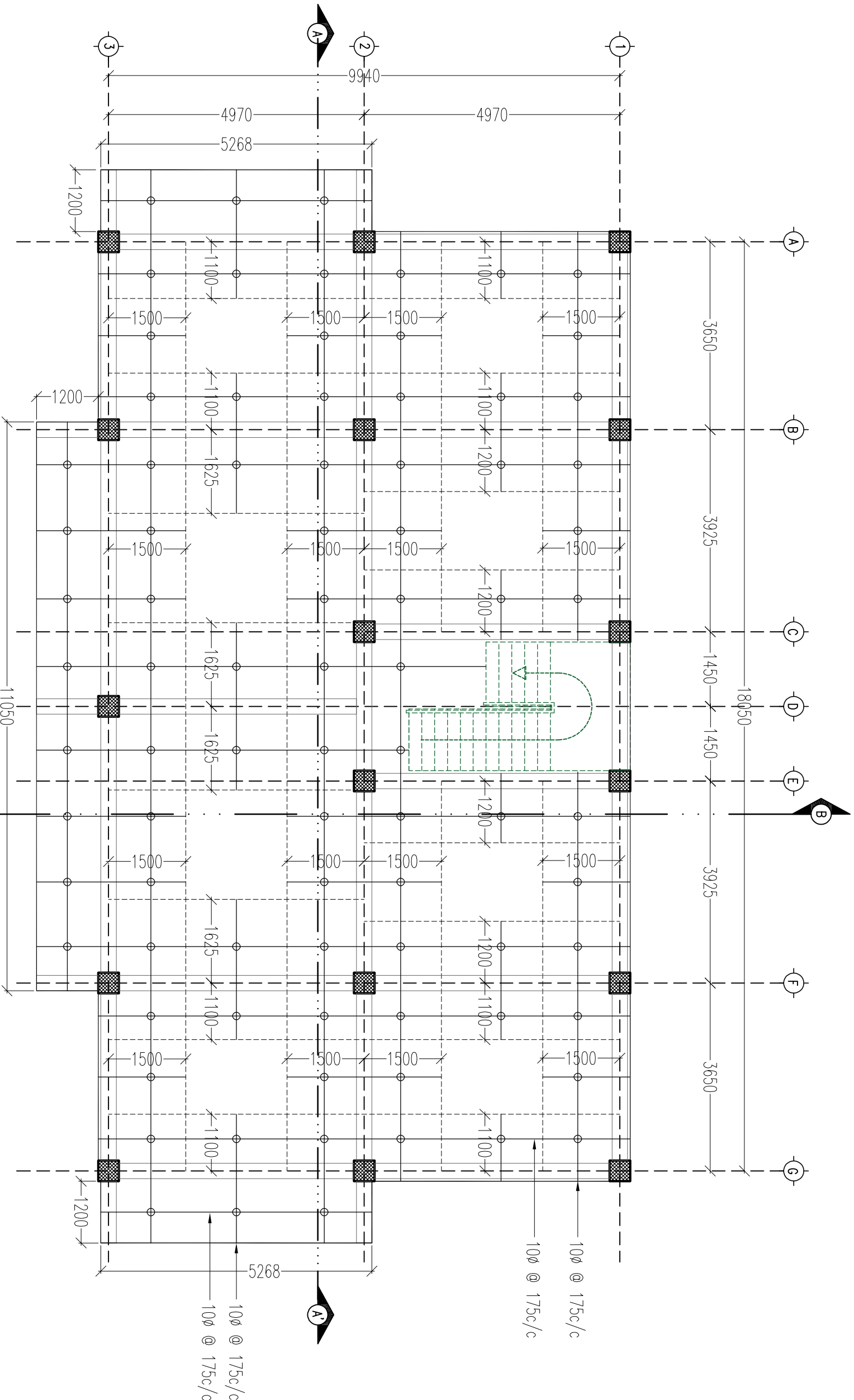
IDENTIFICATION, INVOLVEMENT,

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

DESIGNED BY
DORJI KINLEY
EXECUTIVE ENGINEER
TD, BPC

DRAWING NO.
BPC/TD/TMD/NANGKHOR/SD
DWG # 25




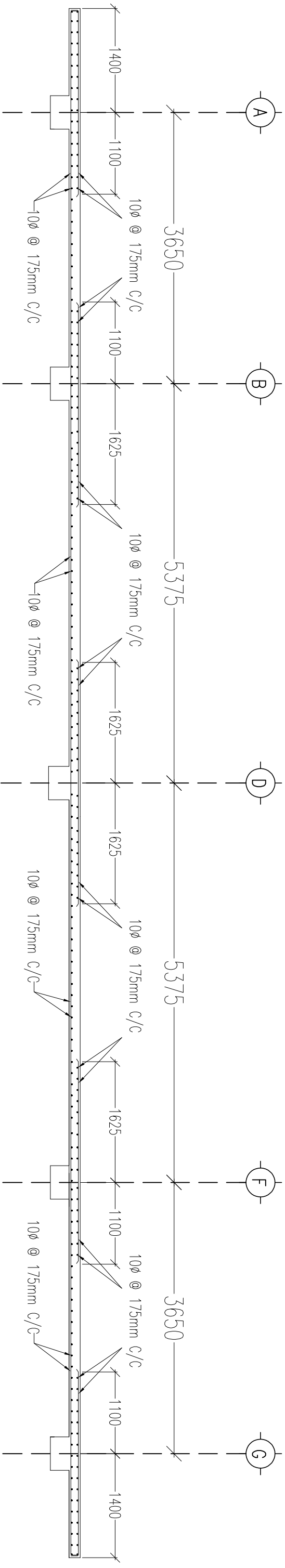


FIRST FLOOR SLAB TOP REINFORCEMENT AT LVL +3.60M

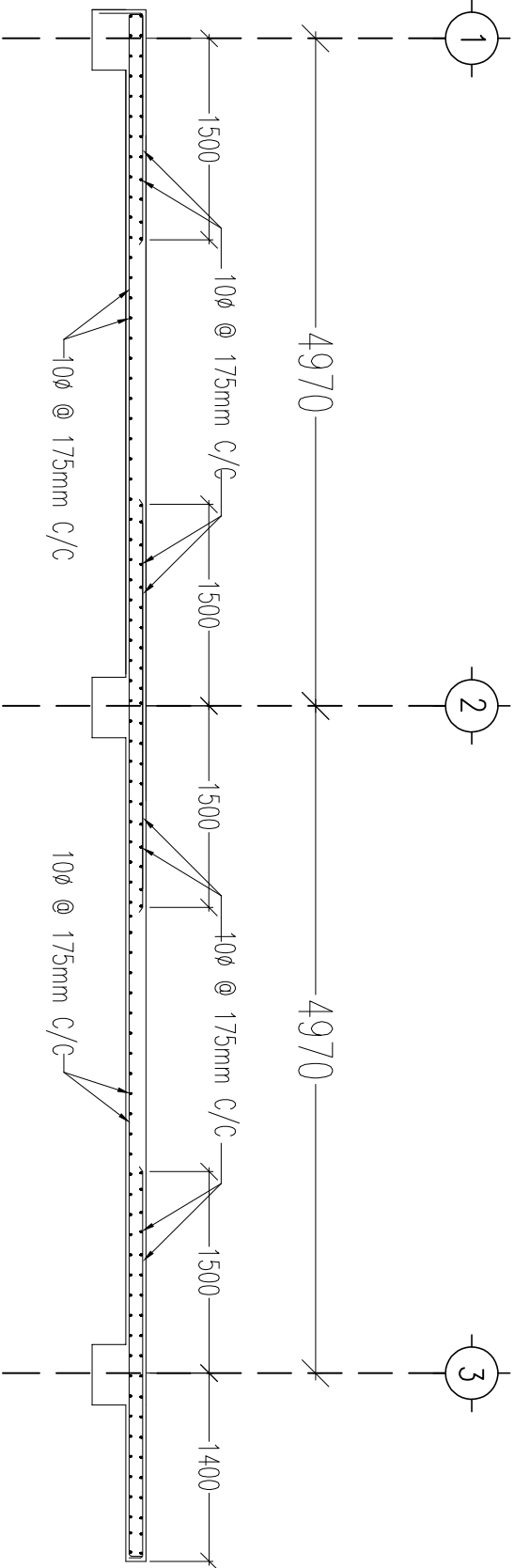
SLAB NOTES:-

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 TSENKHAR, NANGLAM																		
DRAWING STATUS										REFERENCE NOTES									
APPROVAL <input type="checkbox"/>										1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED									
APPROVED <input type="checkbox"/>										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									
SCALE										DATE									
REF DWG										FEBRUARY, 2022									
DWG # 26										BPC/TD/TMD/NANGKHOR/SD									

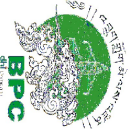


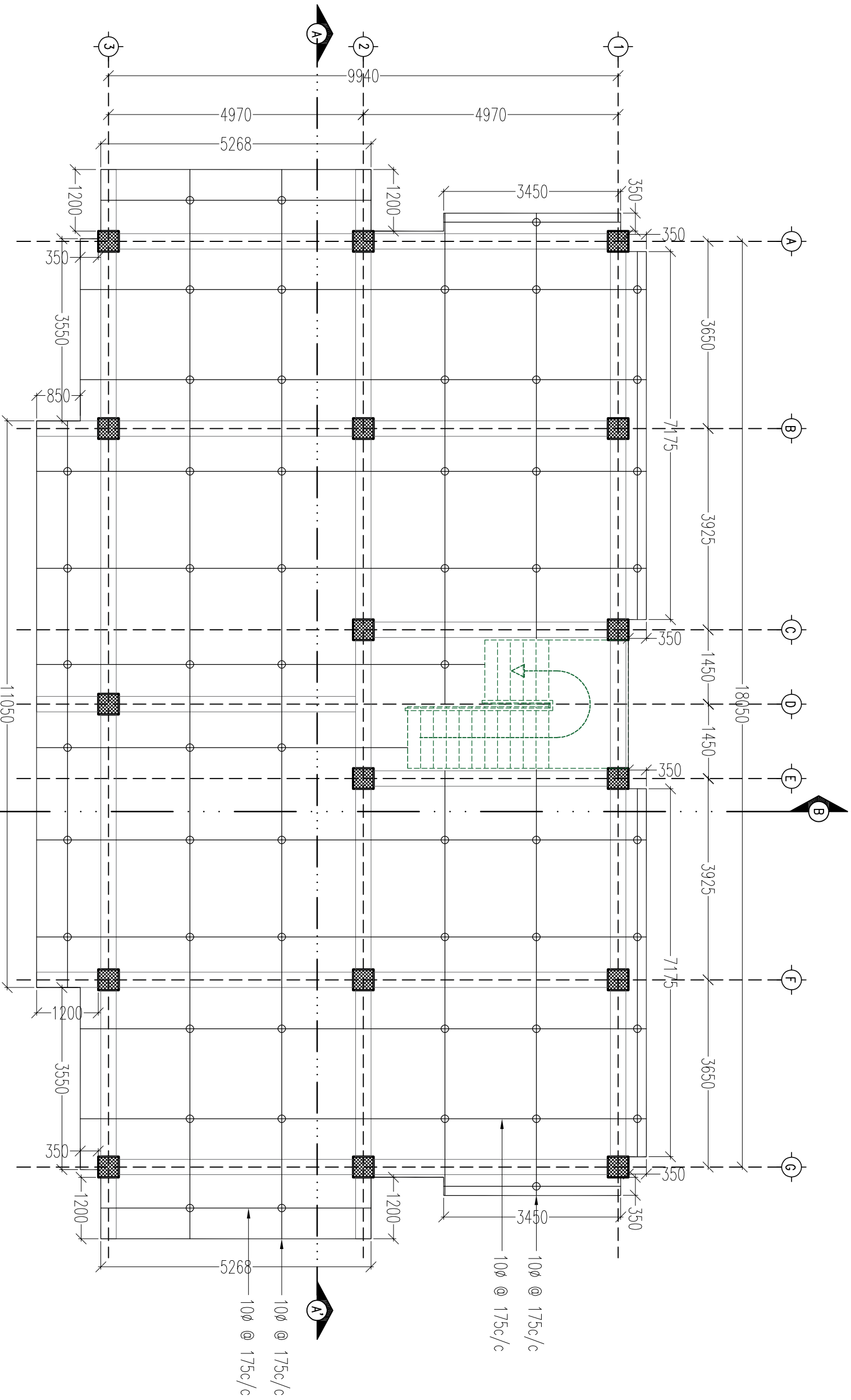
SECTION A-A



SECTION B-B

SLAB SECTION DETAILS FOR FIRST FLOOR SLAB

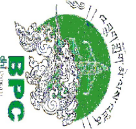
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	BHUTAN POWER CORPORATION LIMITED		DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGLAM		KUNZANG TOBGYE GENERAL MANAGER TD, BPC		DORJI KINLEY EXECUTIVE ENGINEER TD, BPC		REFER DRAWING		BPC/TD/TMD/NANGKHORSID	
	TRANSMISSION DEPARTMENT		DRAWING STATUS		SCALE		DATE		DWG # 27			
			APPROVAL <input type="checkbox"/> APPROVED <input type="checkbox"/>		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)



BHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT

PROJECT TITLE

DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGLAM

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

KUNZANG TOBGYE
GENERAL MANAGER
TD, BPC

DESIGNED BY

DORJI KINLEY
EXECUTIVE ENGINEER
TD, BPC

DRAWING TITLE

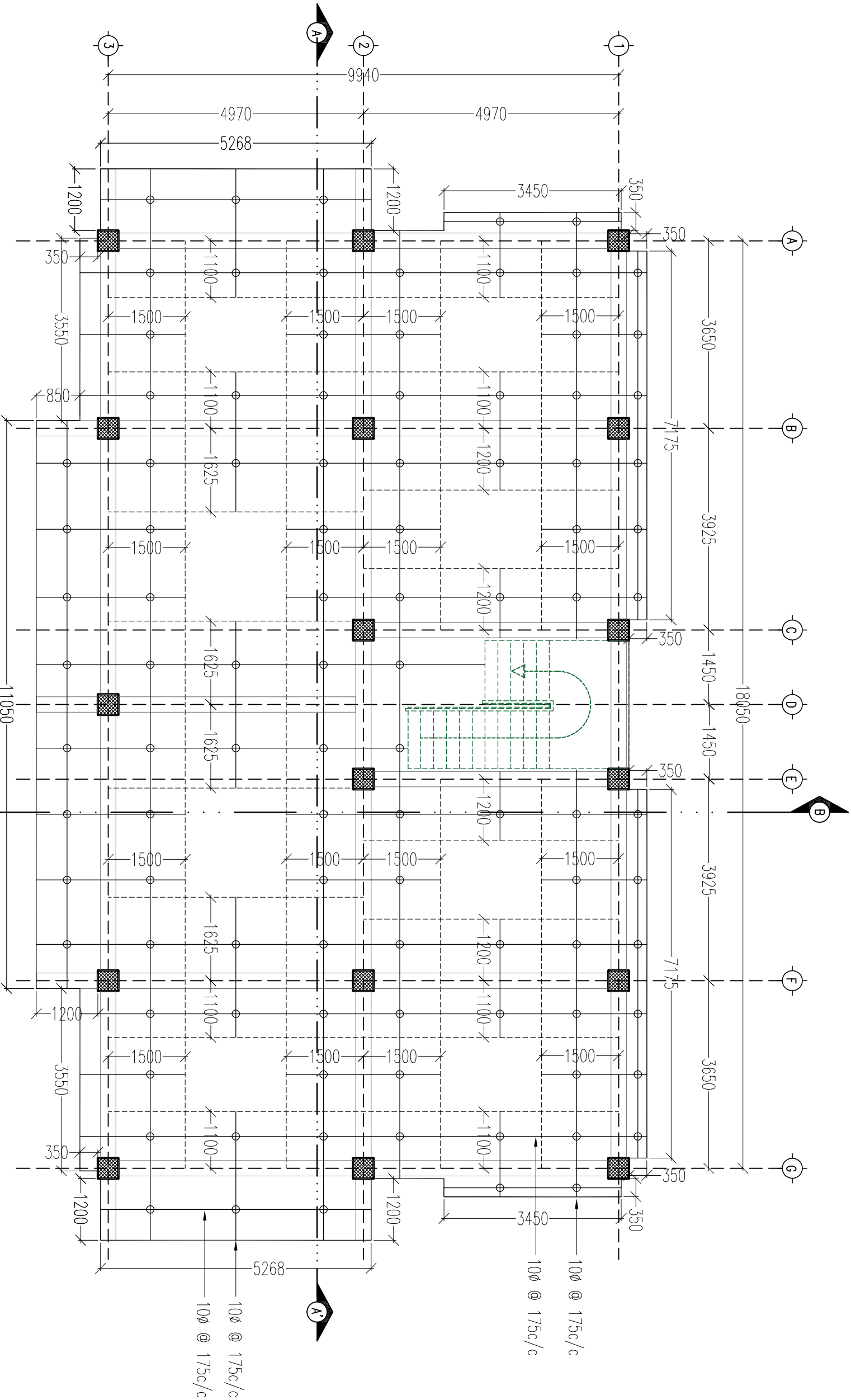
SCALE

DATE

DRAWING NO.

BPC/TD/TMD/NANGKHORS/D

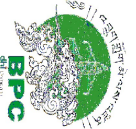
DWG # 28



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



BHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT

PROJECT TITLE

DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGI LAM

REFERENCE NOTES

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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

DRAWING NO.

BPC/TD/TMD/NANGKHORSD

DWG # 29



BHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT

PROJECT TITLE

DESIGN OF STAFF QUARTER (G+2) AT

TSENKHARI, NANGLAM

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

KUNZANG TOBGYE
GENERAL MANAGER

DESIGNED BY

DORJI KINLEY
EXECUTIVE ENGINEER

DRAWING TITLE

REFER DRAWING

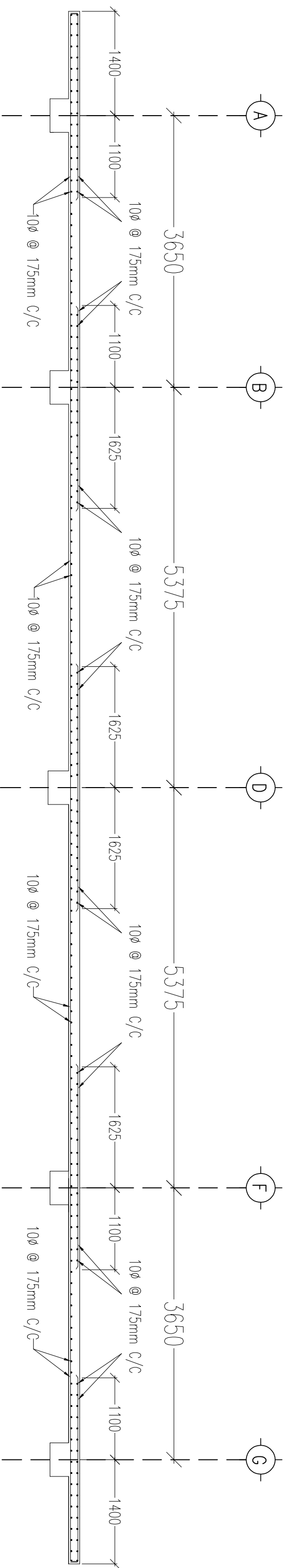
DATE	FILE
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REF DWG

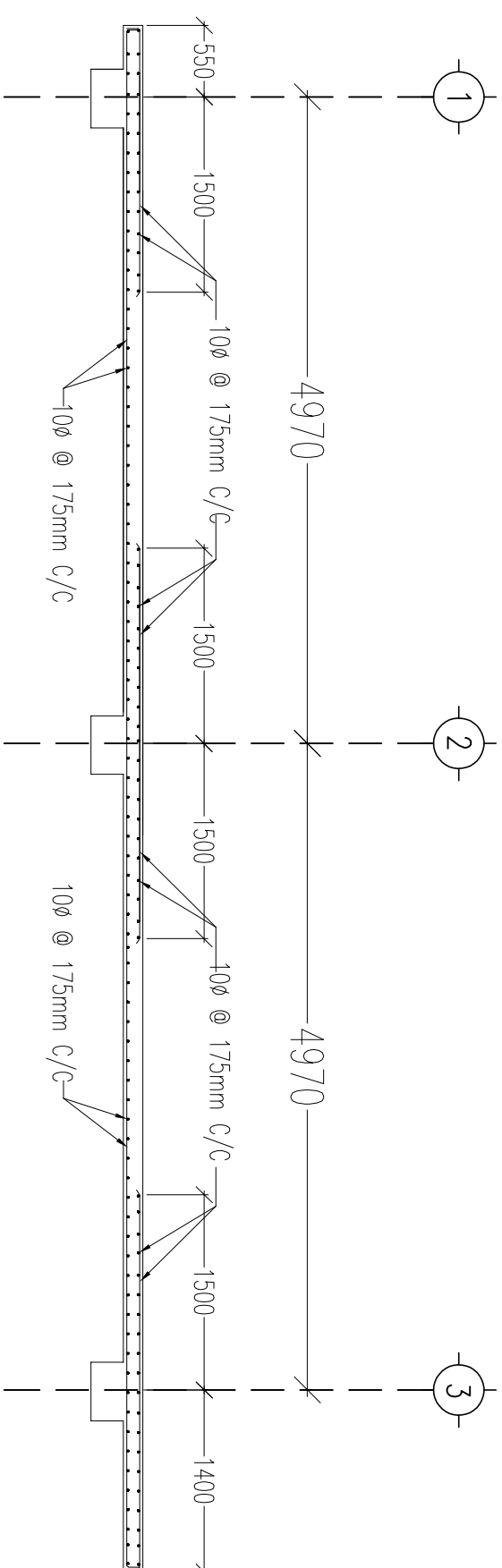
FEBRUARY, 2022

DRA WING NO.

BPC/TD/TMD/NANGKHOR/SI

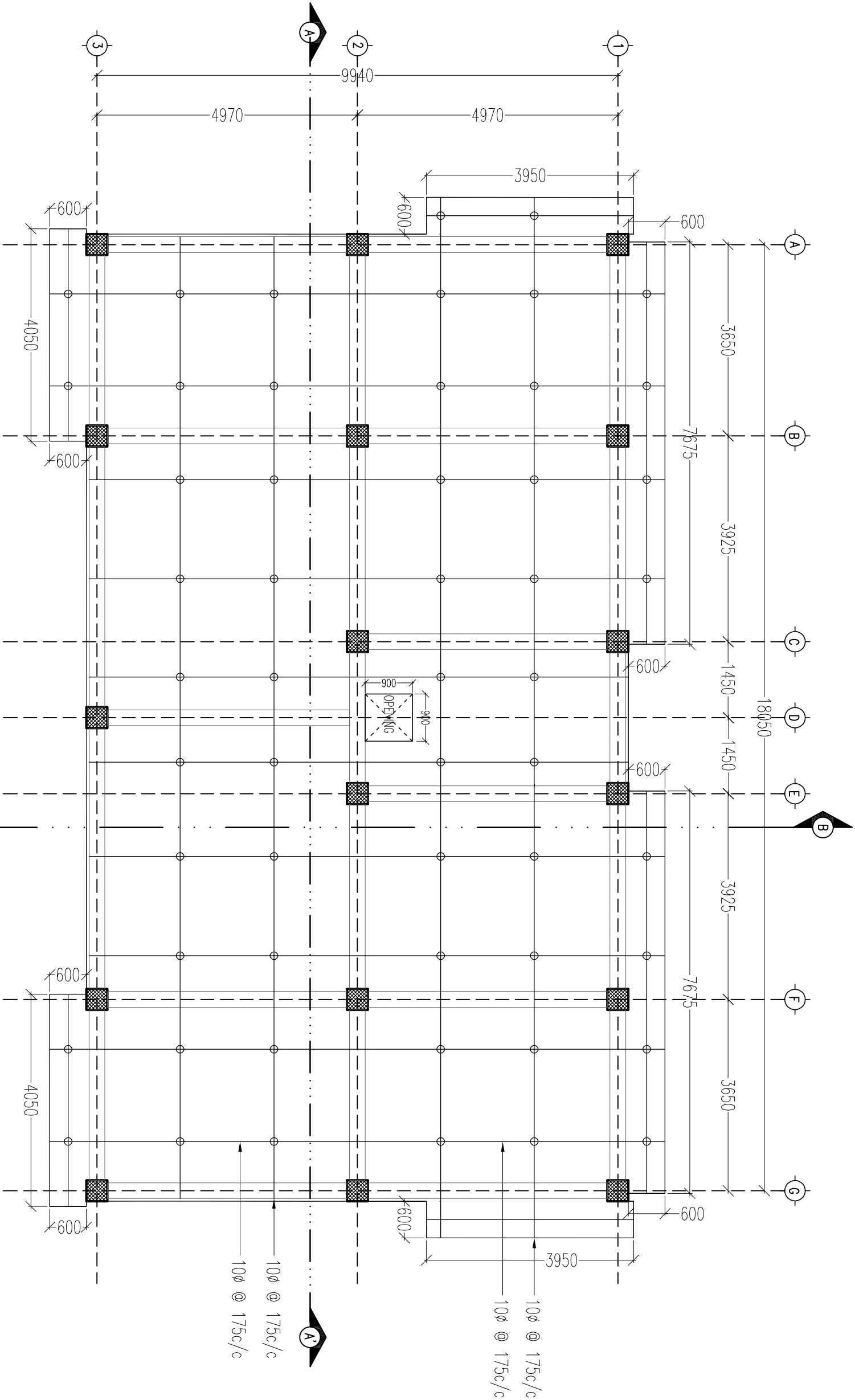


SECTION A-A



SECTION B-B

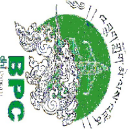
SLAB SECTION DETAILS FOR SECOND FLOOR SLAB



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



BHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT

PROJECT TITLE

DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGCLAM

DRAWING STATUS

APPROVAL ☐ APPROVED ☐

REFERENCE NOTES

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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

SCALE

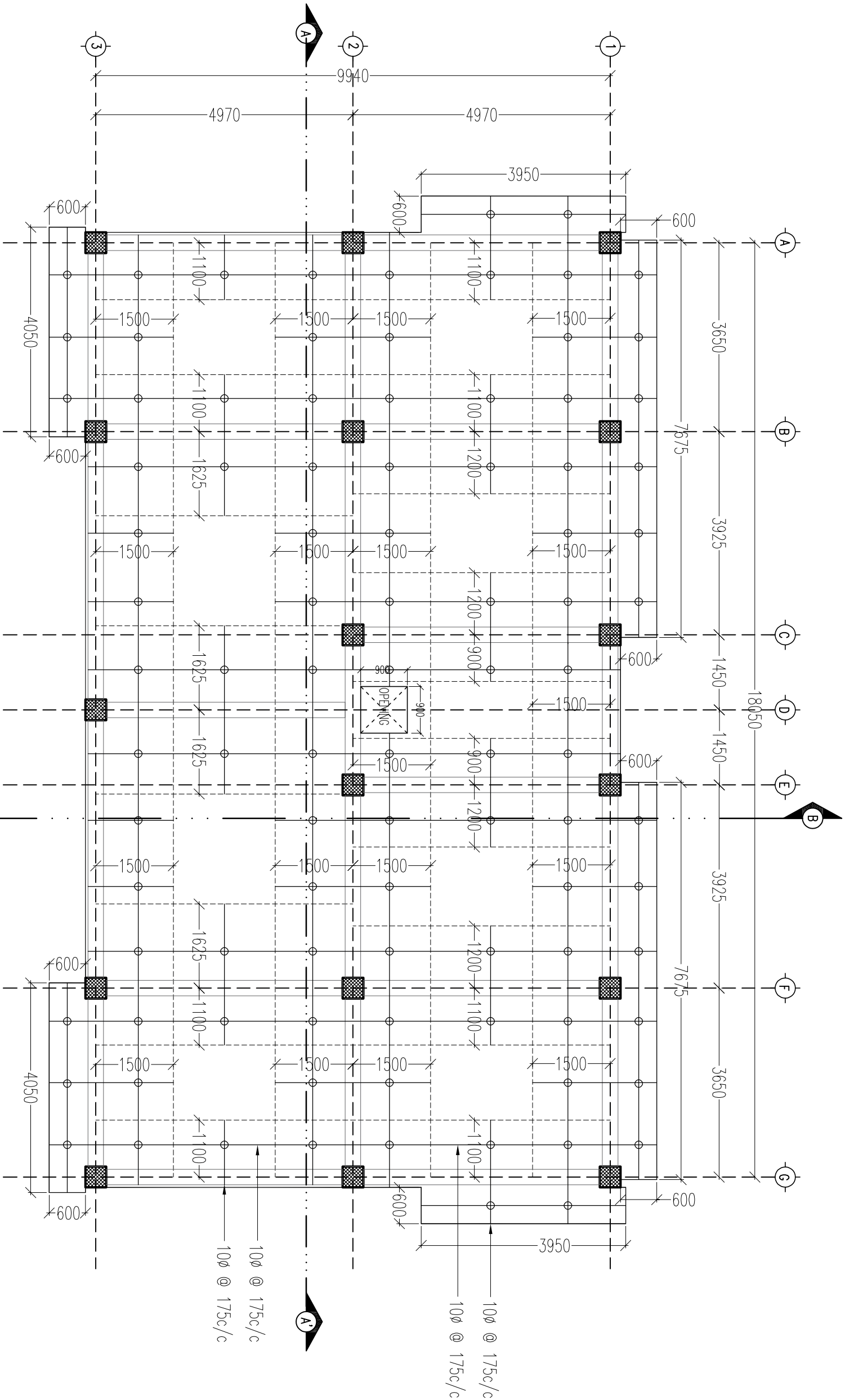
REFER DRAWING

DATE

DRAWING NO.

BPC/TD/TMD/NANGKHOR/SD


DWG # 31



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

	BHUTAN POWER CORPORATION LIMITED									
	TRANSMISSION DEPARTMENT									
	PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE	
	DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGI,AM		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/NANGKHOR/SD	
DRAWING STATUS		APPROVAL <input type="checkbox"/>	APPROVED <input type="checkbox"/>	SCALE		DATE		REF DWG		DWG # 32
						FEBRUARY, 2022				



DESIGN OF STAFF QUARTER (G+2) ATTACHED TO

1000

DESIGN OF STAFF QUARTER (G+2) AT
TSENKHARI, NANGLAM

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

KUNZANG TOBYE
GENERAL MANAGER
TD, BPC

DORJI KINLEY
EXECUTIVE ENGINEER
TD, BPC

REFER DRAWING	
SCALE	DATE
REF DWG	FEBRUARY

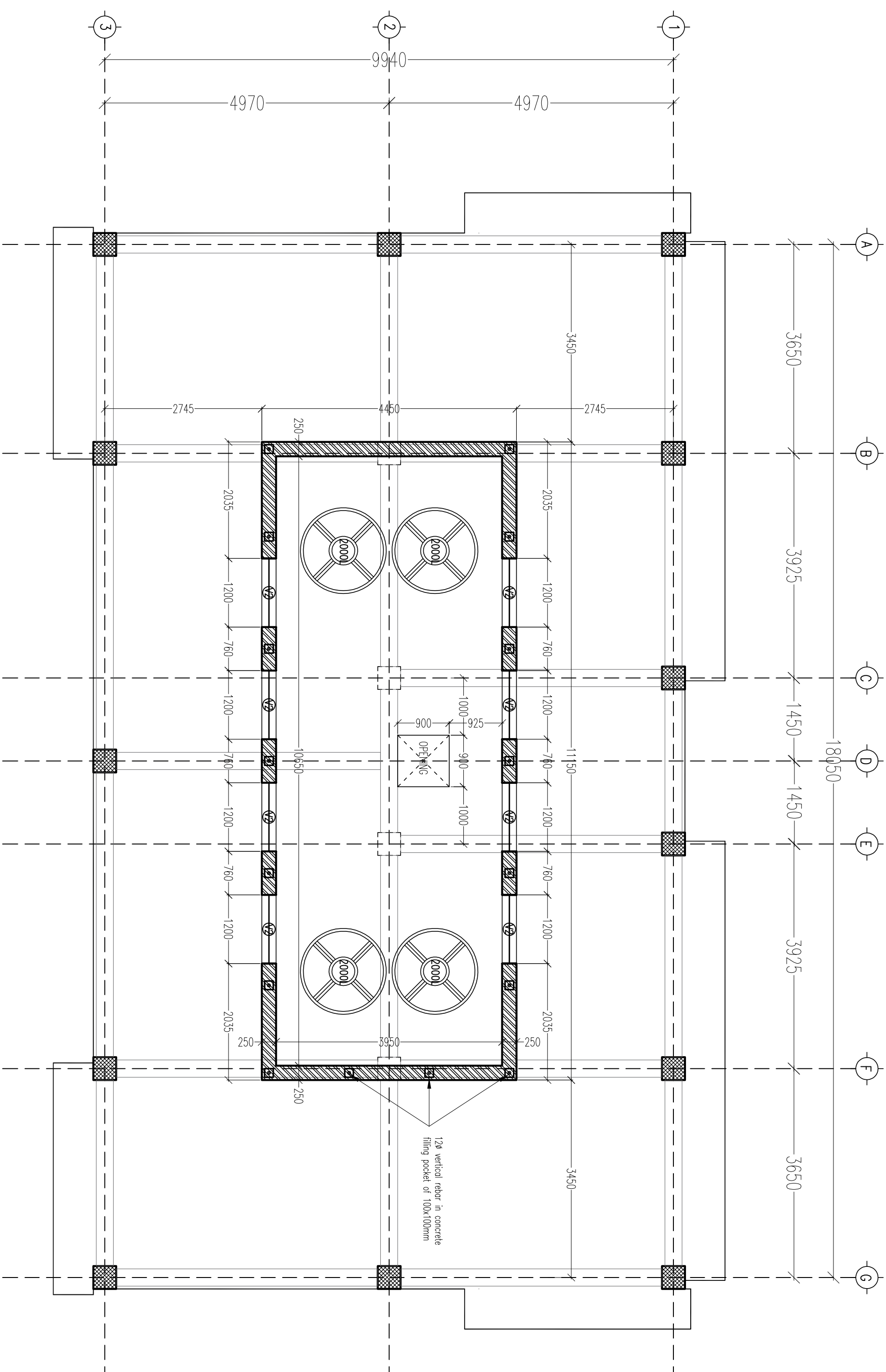
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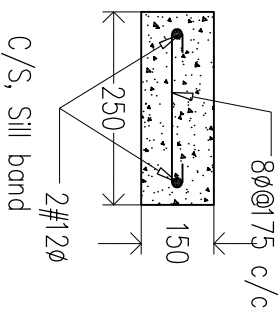
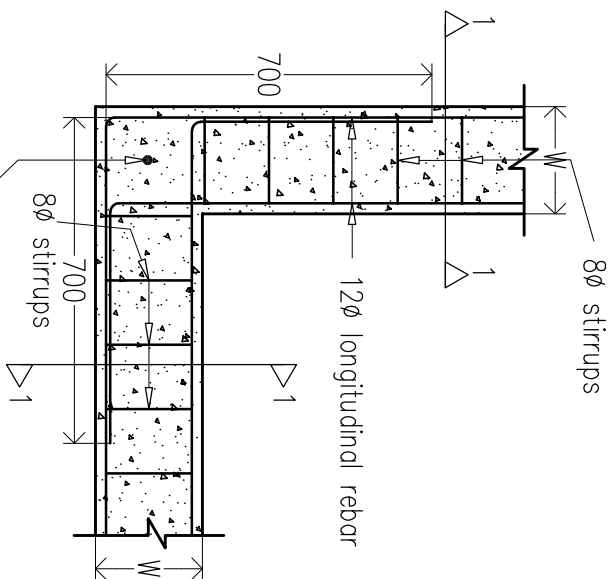
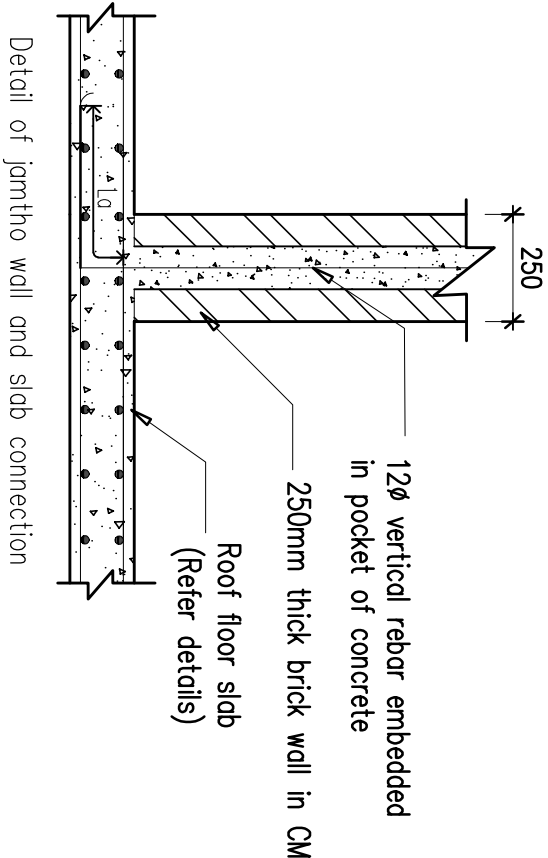
FEBRUARY, 2022

DWG # 34

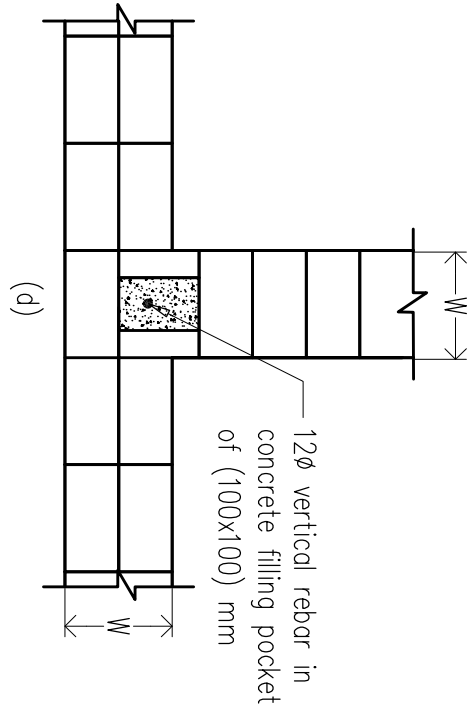
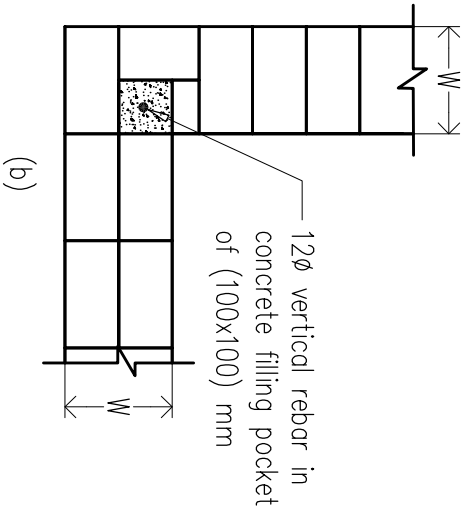
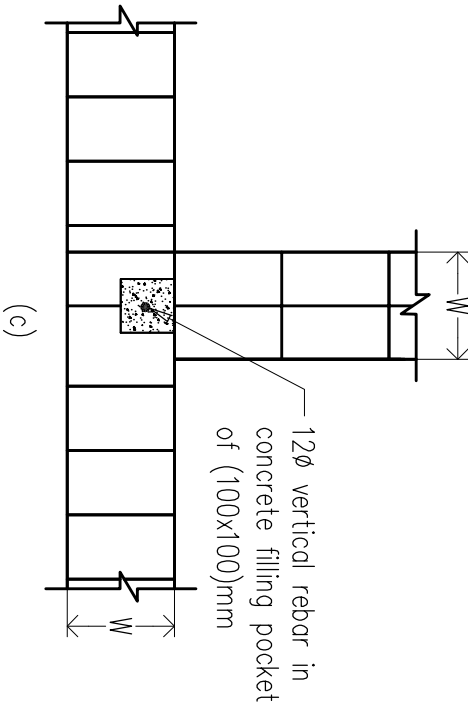
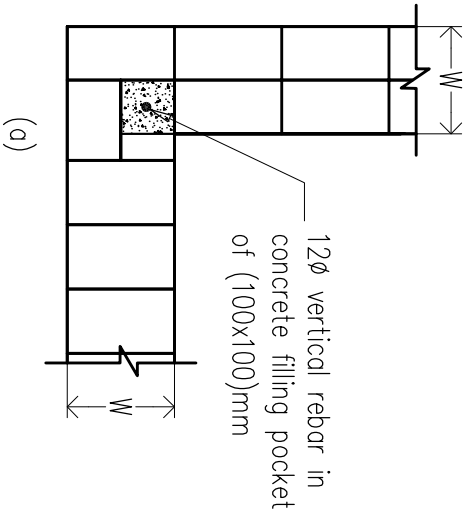
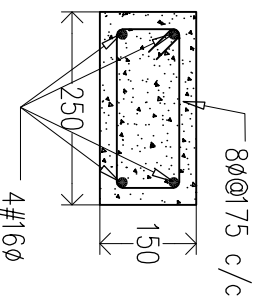
JAMTHO FLOOR WALL DETAILS AT LVL +9.90M



- 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)

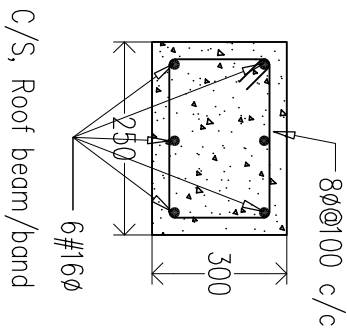
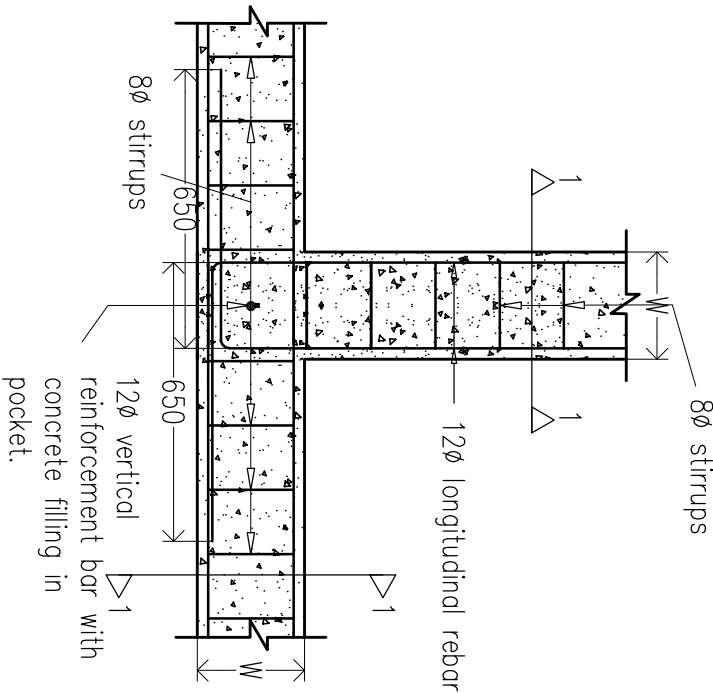


Details of band reinforcement at corner or L-junctions




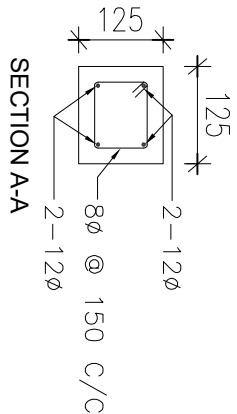
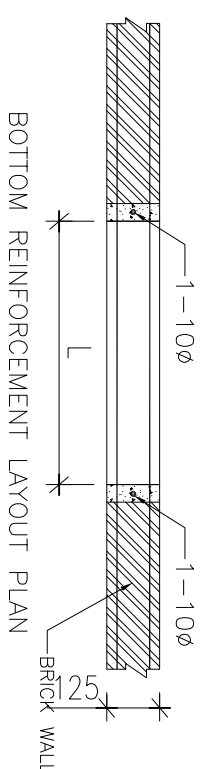
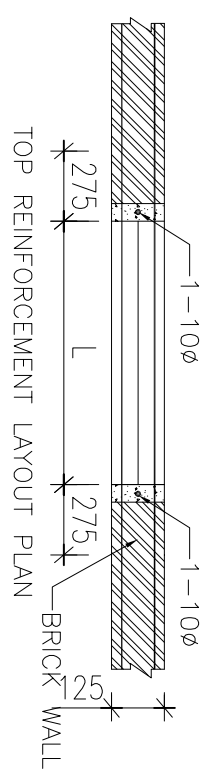
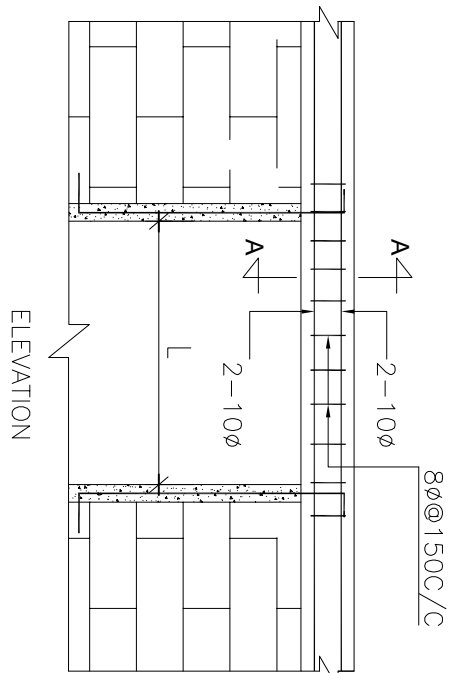
(a) and (b), alternate courses of brick/stone masonry wall at L-junctions (typical)

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



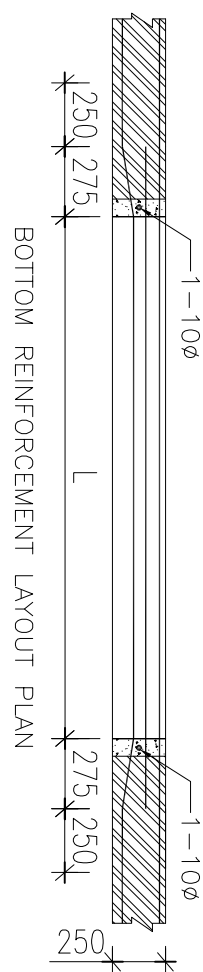
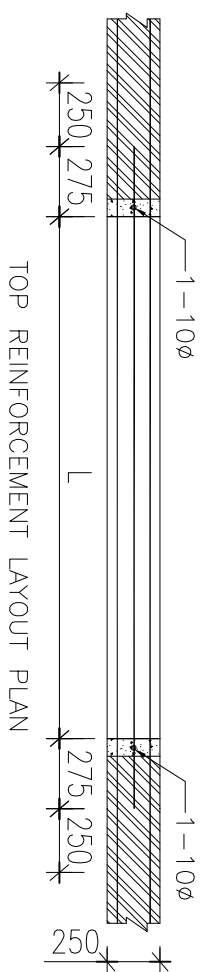
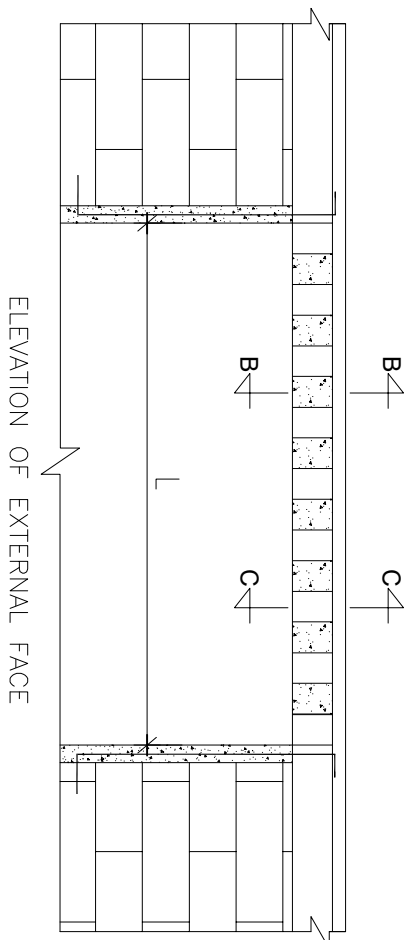
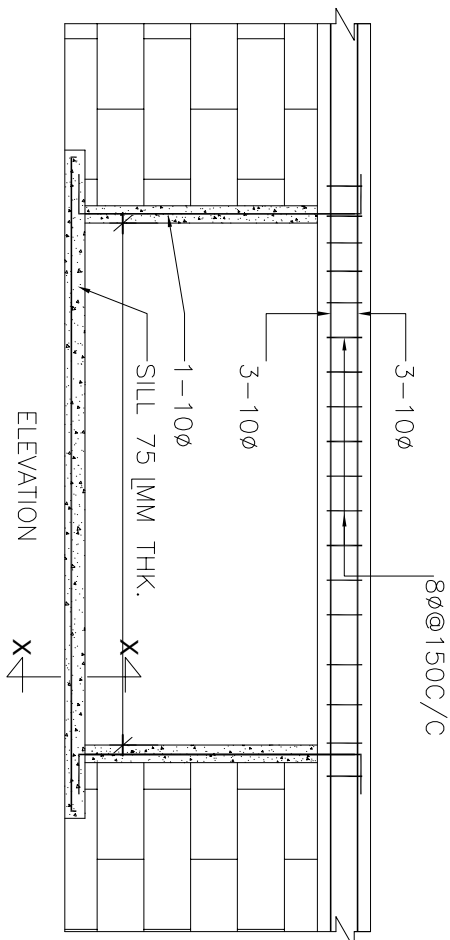
Details of band reinforcement at T-junctions

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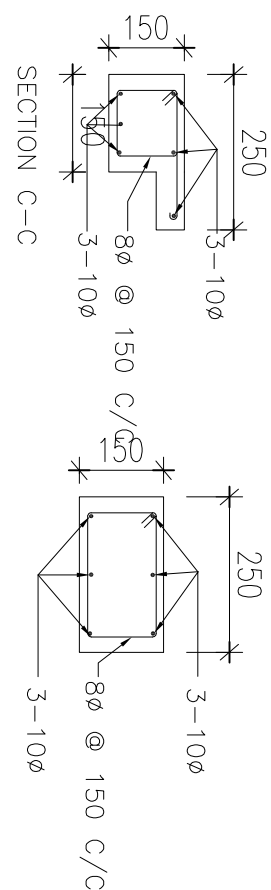


LINTEL DETAILS FOR 125MM THICK. WALL

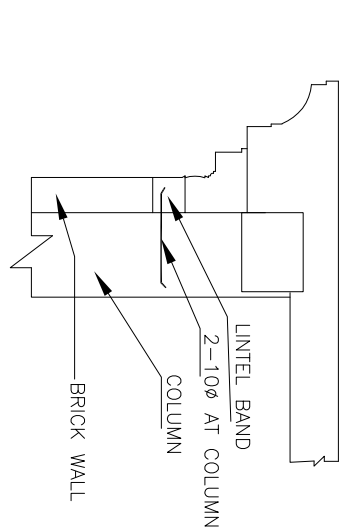
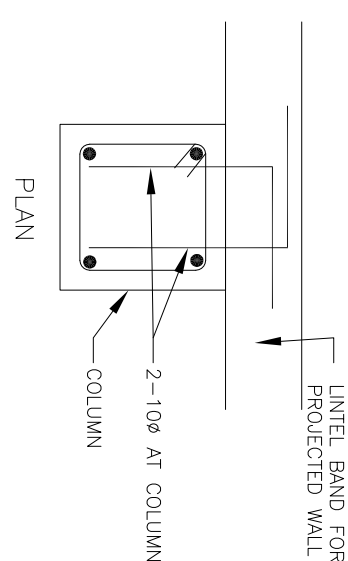
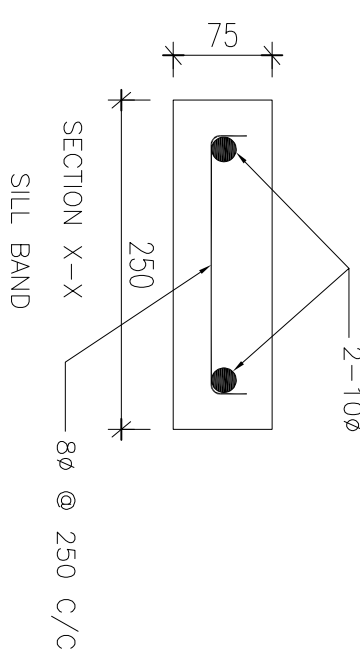
NOTE:
LINTEL SHOULD BE PROVIDED AROUND THE MAIN WALL



LINTEL DETAIL FOR 250 MM THICK. WALL

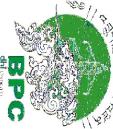


LINTEL SECTION DETAILS FOR 250mm THICK WALL



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 TSENKHAR, NANGLAM		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		BPC/TD/TMD/NANGKHORSID	
													DWG # 36	



BHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT

PROJECT TITLE

**DESIGN OF STAFF QUARTER (G+2) AT
TSENKHARI NANGI AM**

TSENKHARI, NANGLAM

DRAWING STATUS

APPROV

A

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
TD, BPC

DESIGNED BY

DORJI KINLEY
EXECUTIVE ENGINEER
TD, BPC

DRAWING TITLE

REFER DRAWING

SCALE

REF DWG

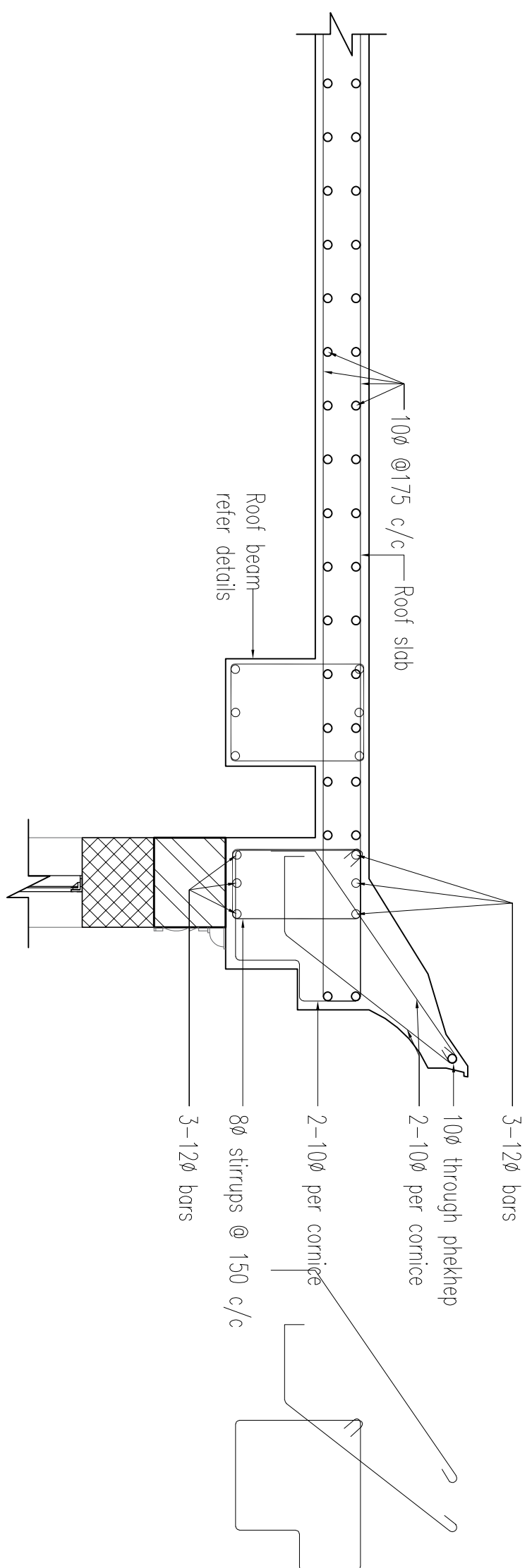
NG TITLE

DRAWING

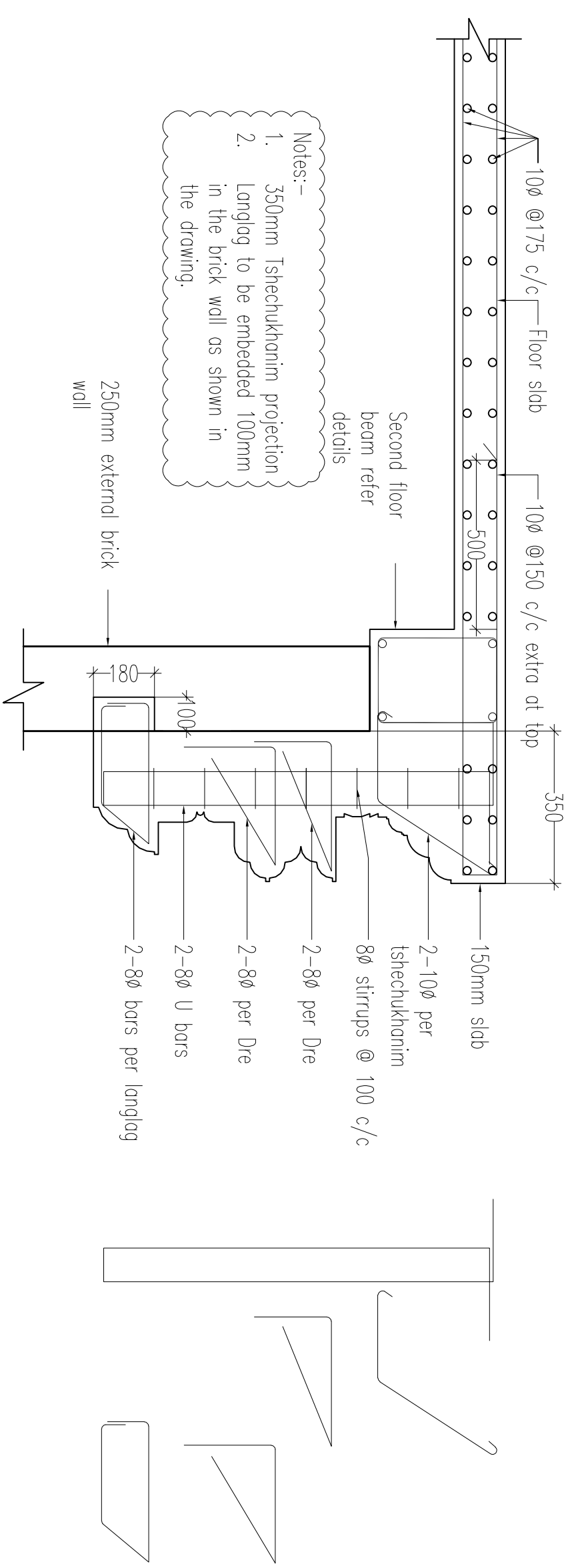
D R A W I N G N O.

BPC/TD/TMD/NANGKHOR/SD

DWG # 37



CORNICE DETAILS AT ROOF LEVEL

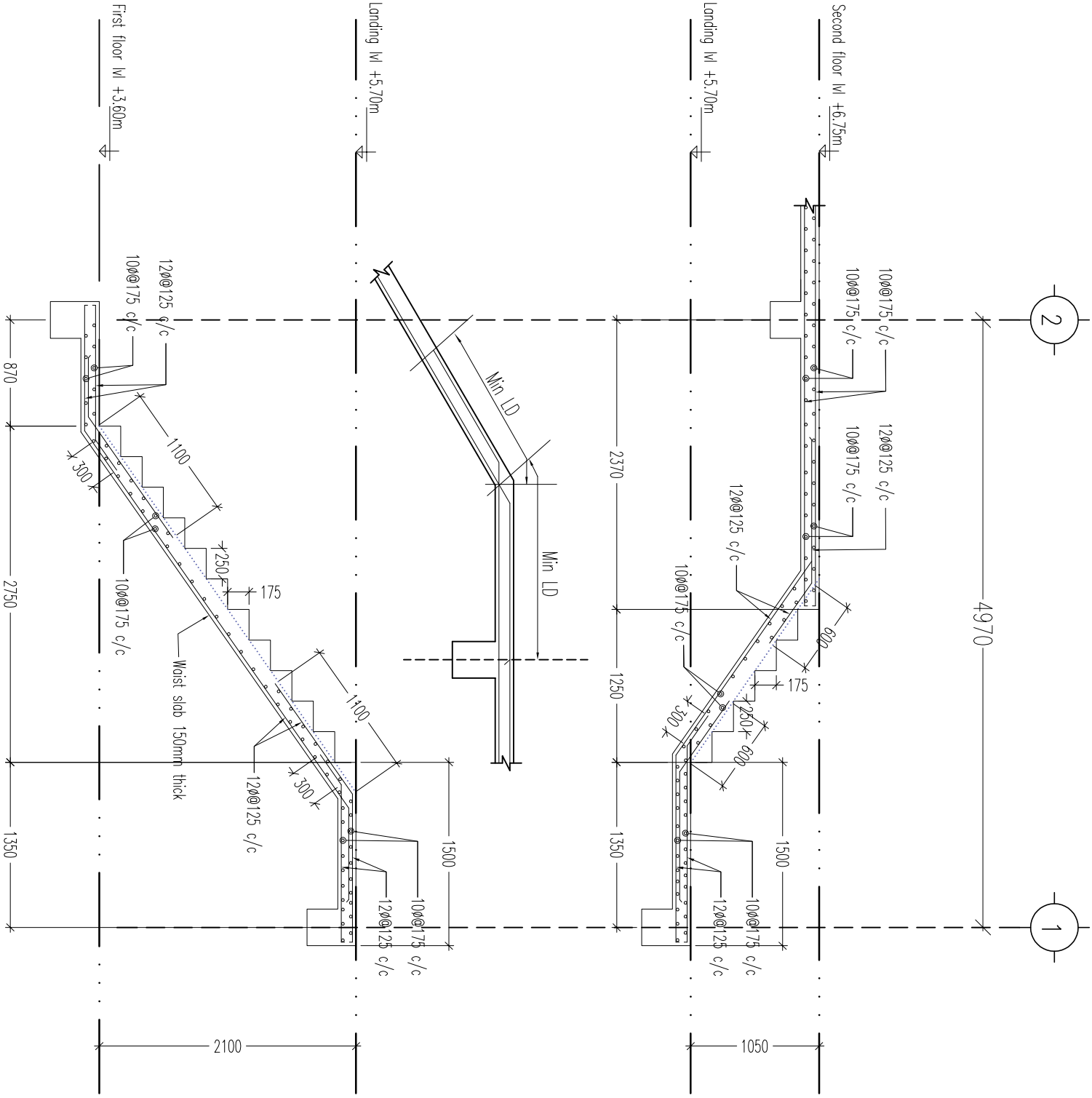
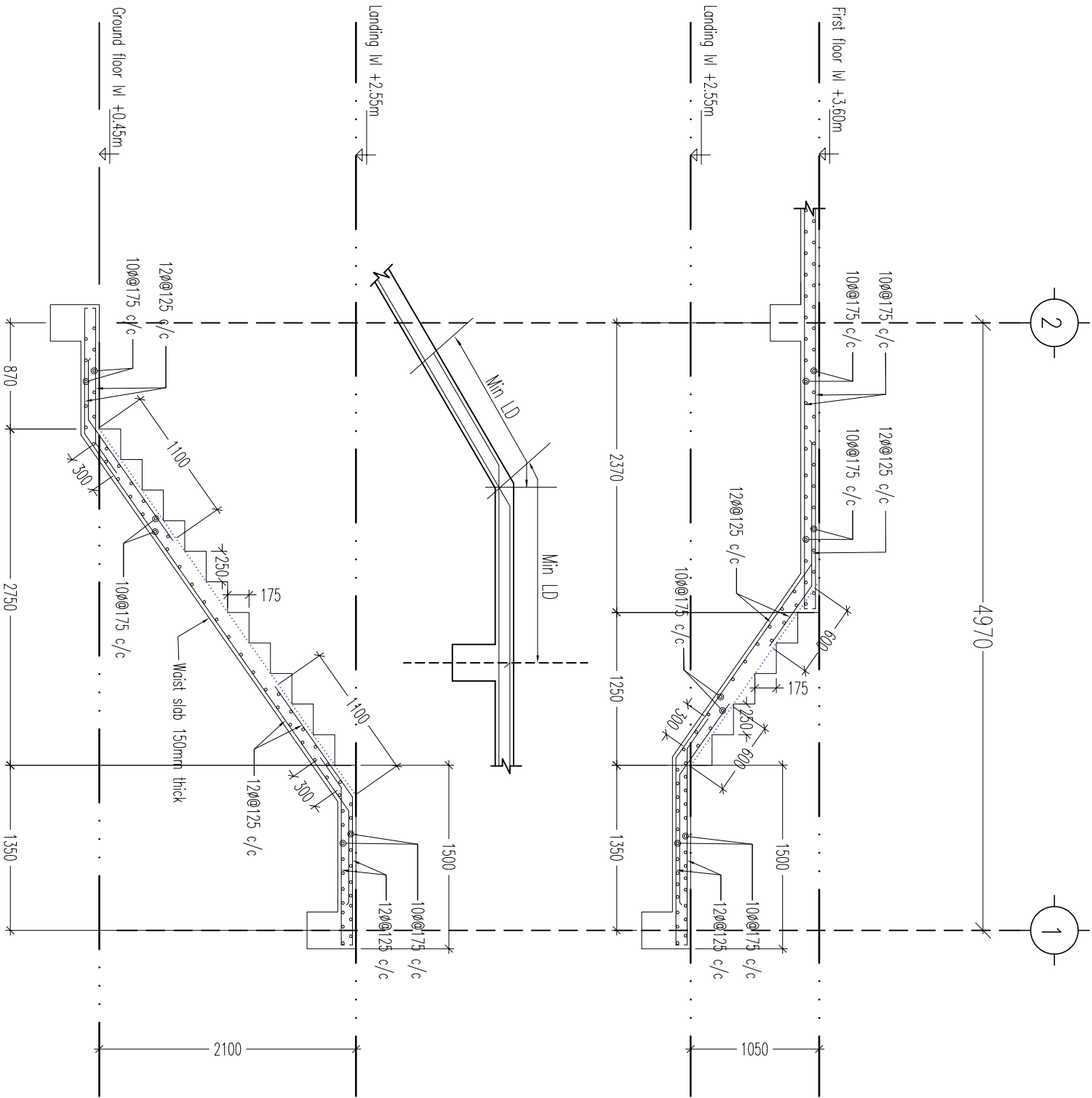



CORNICE DETAIL AT SECOND FLOOR LEVEL

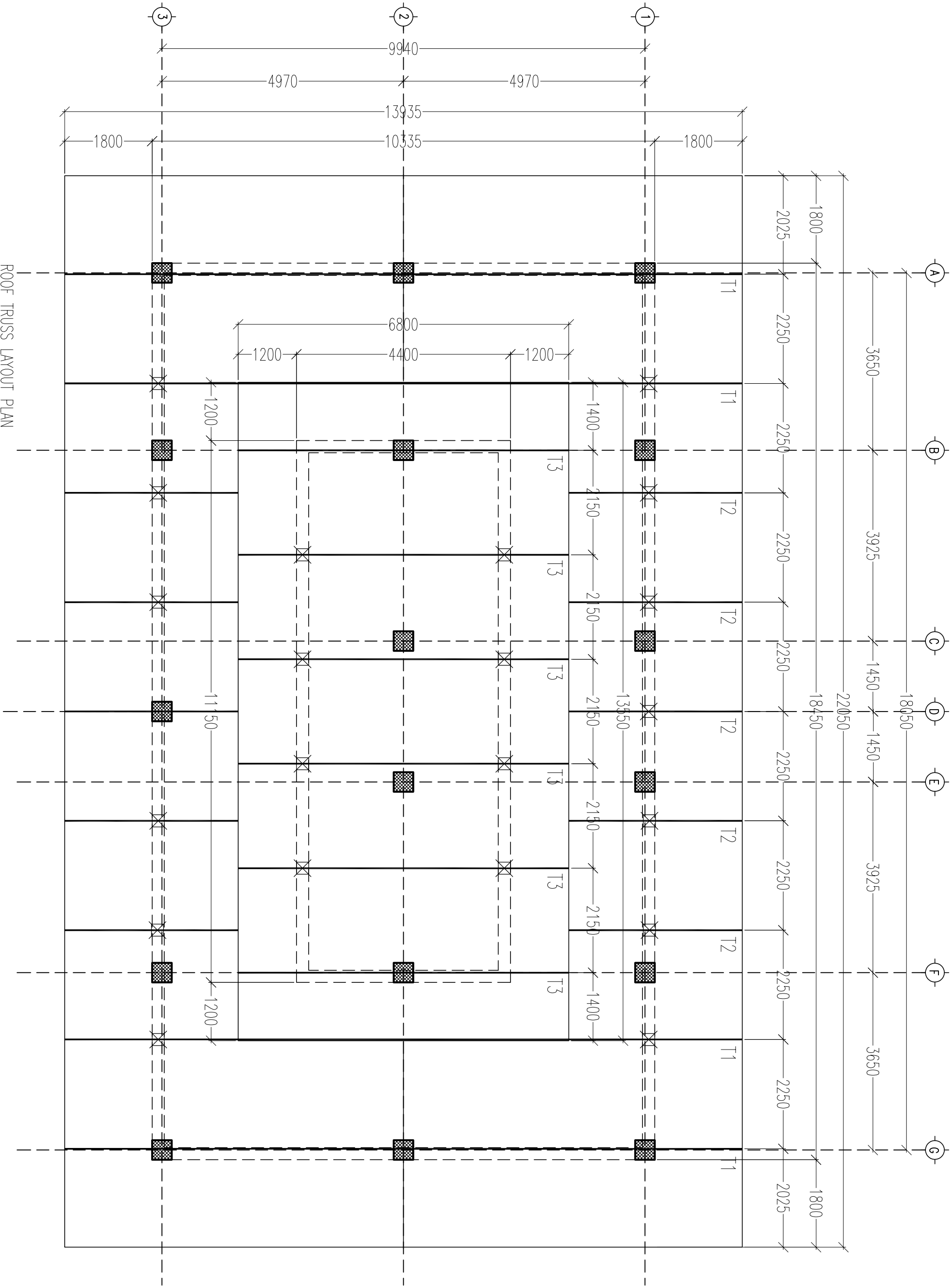
Notes:-

1. 350mm Tschukhanim projection
2. Langlag to be embedded 100mm in the brick wall as shown in the drawing.

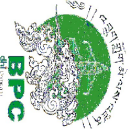
250mm external brick wall

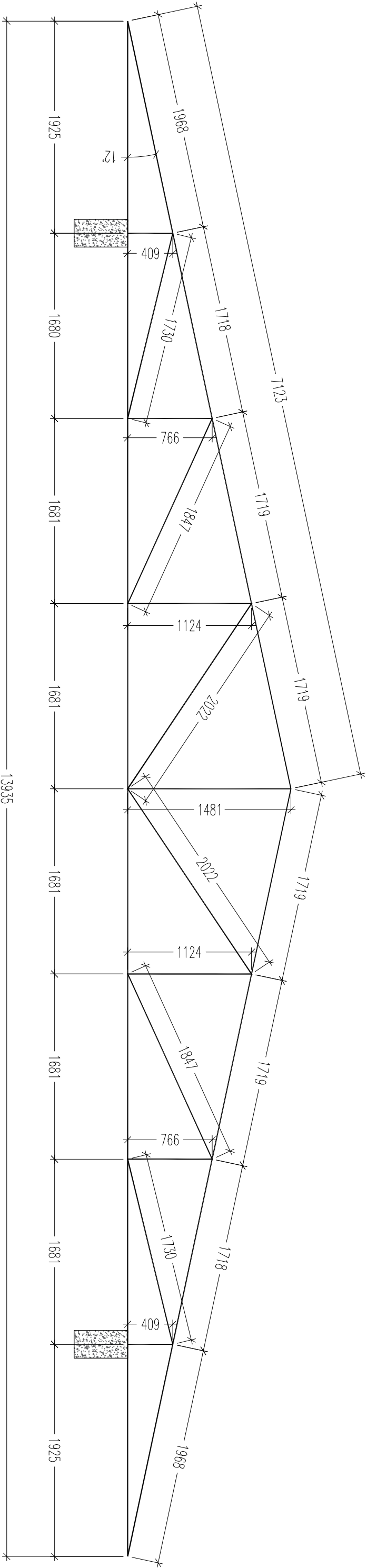


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ROOF TRUSS LAYOUT PLAN

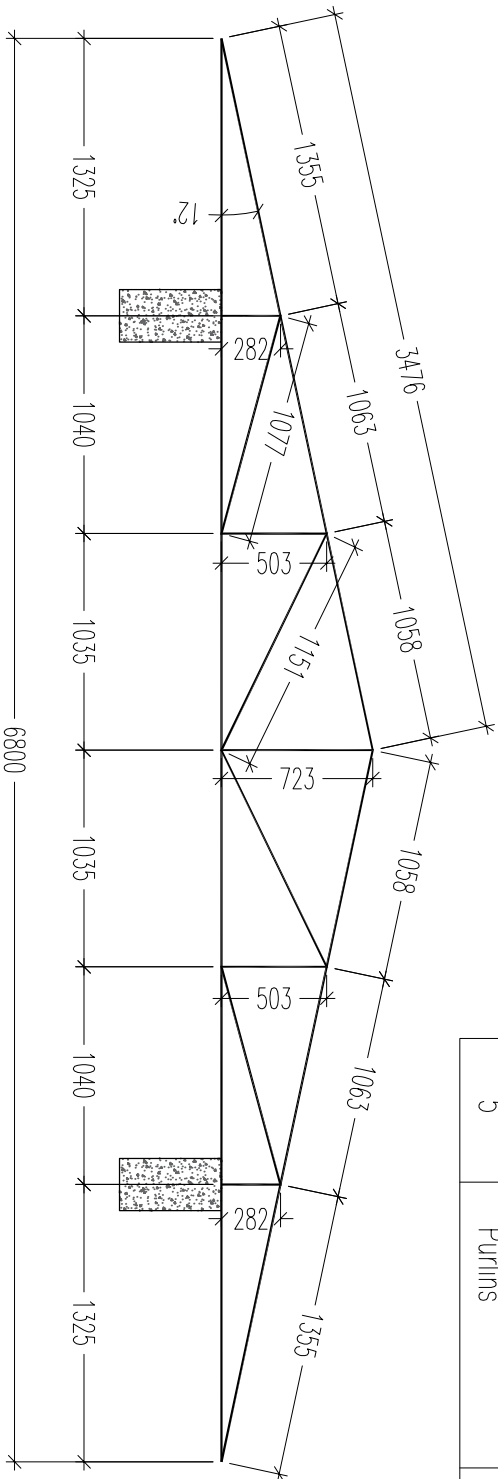
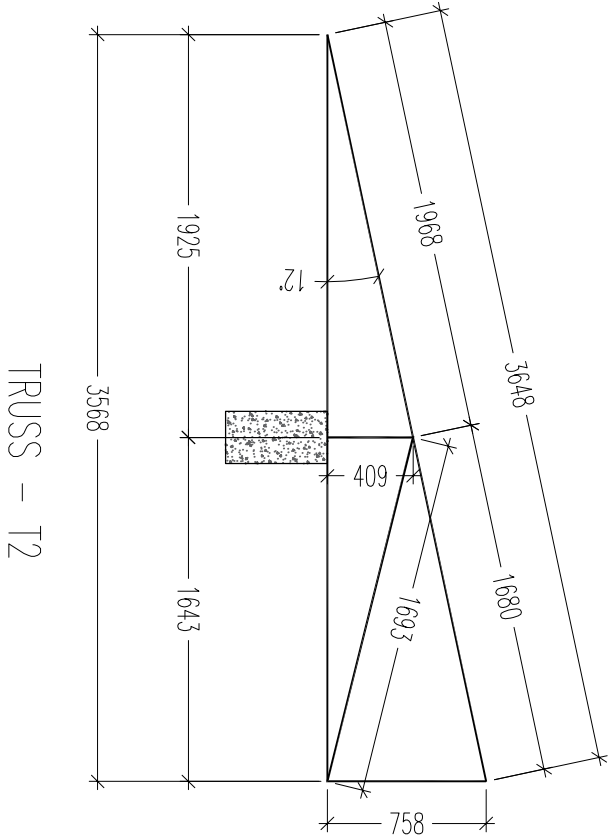
	BHUTAN POWER CORPORATION LIMITED		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
	TRANSMISSION DEPARTMENT		DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGLAM		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED 2. THE MEASUREMENTS IN THE 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/NANGKHORS/D
			DRAWING STATUS								REF DWG		FEBRUARY, 2022	DWG # 39
			APPROVAL		APPROVED									



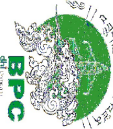
TRUSS – T1

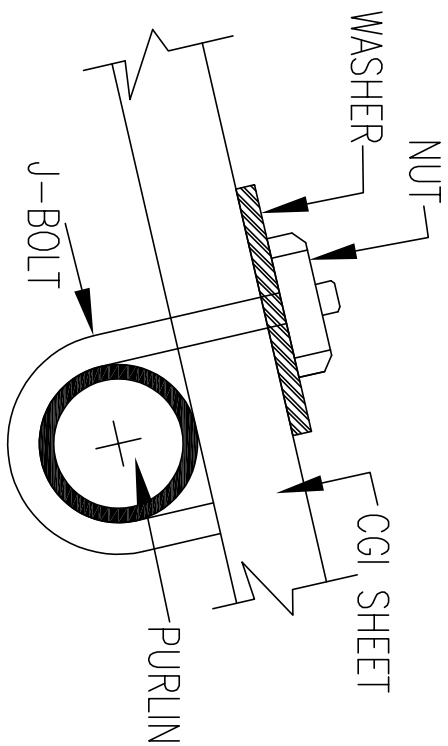
TRUSS MEMBER SIZES

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

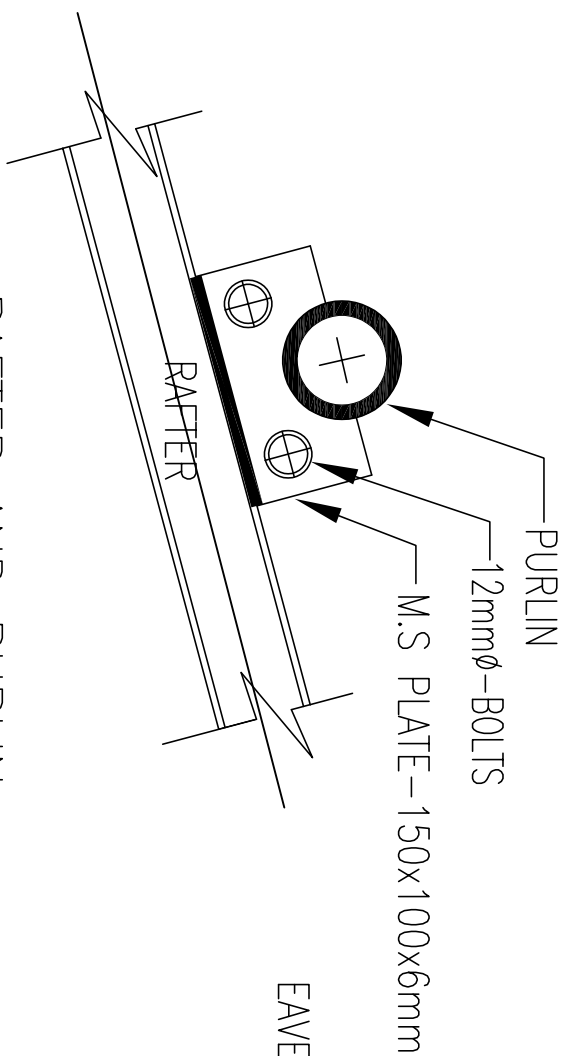


TRUSS – T3

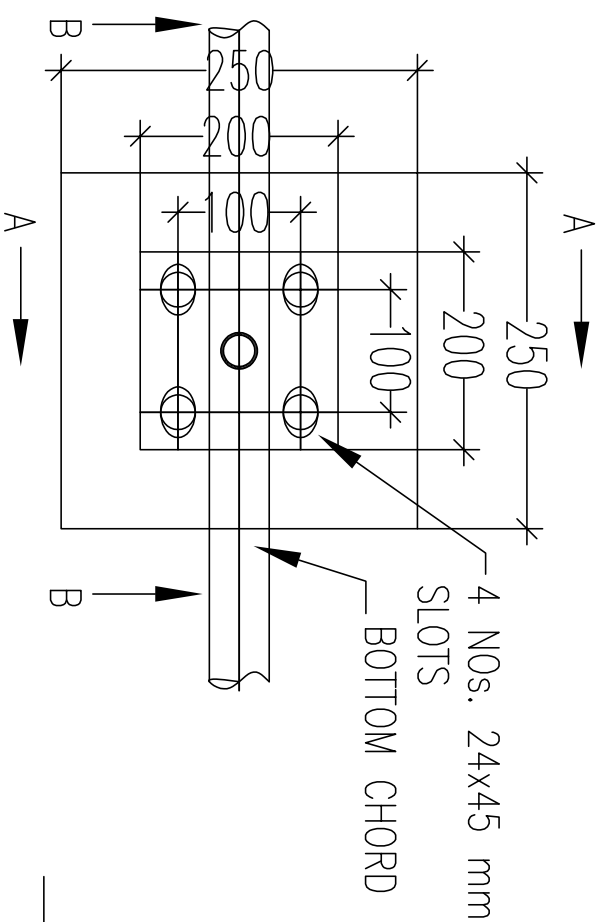
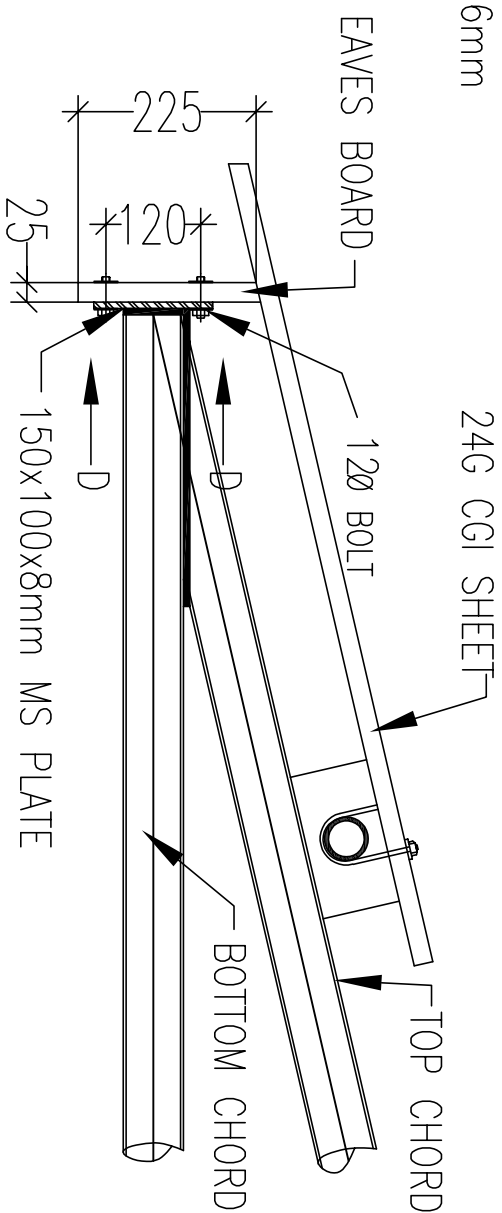
	BHUTAN POWER CORPORATION LIMITED	
TRANSMISSION DEPARTMENT		
PROJECT TITLE	DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGI LAM	
REFERENCE NOTES	1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED 3. ANY DISCREPANCY 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	BPC/TD/TMD/NANGKHORS/D
APPROVAL	APPROVED	SCALE
<input type="checkbox"/>	<input type="checkbox"/>	DATE
DRAWING STATUS	REF DWG	FEBRUARY, 2022
DWG # 40		



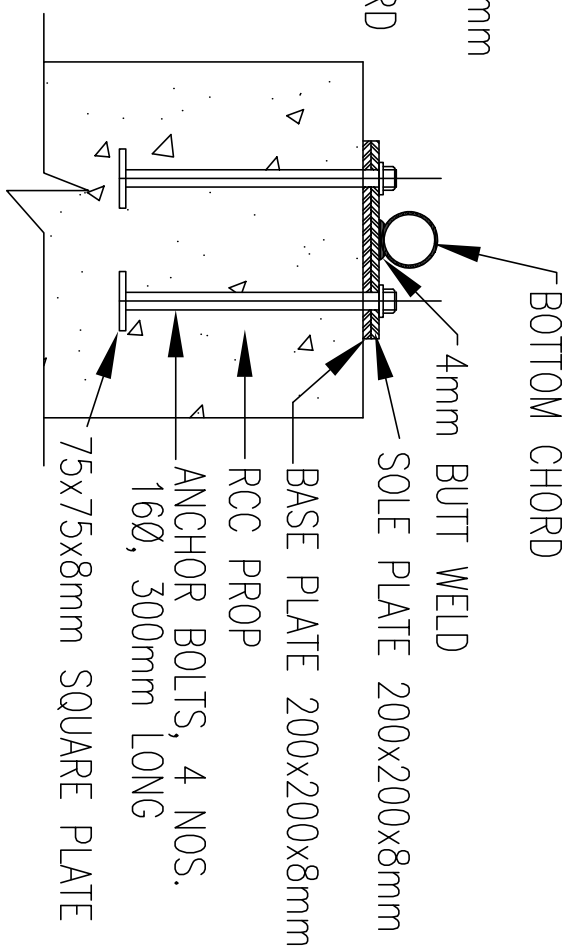
CONNECTION OF CGI SHEET TO PURLIN



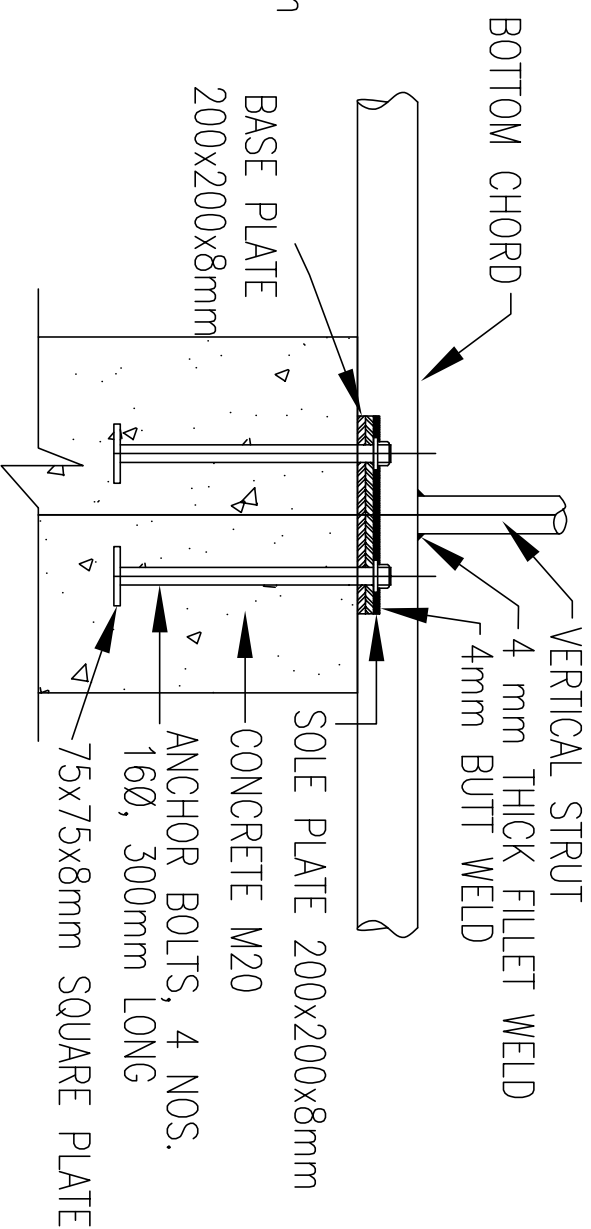
RAFTER AND PURLIN CLEAT JOINING DETAILS




TRUSS HOLDING DOWN DETAILS

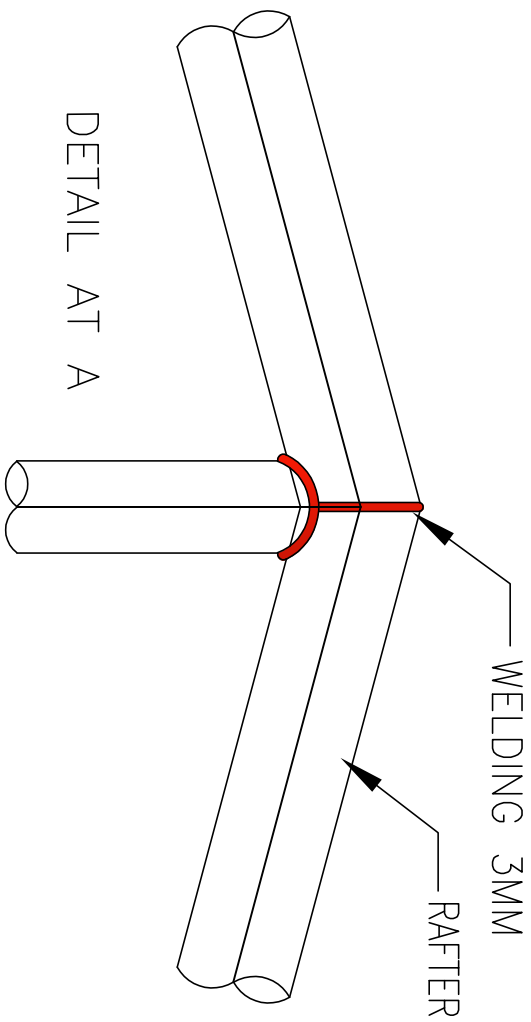


SECTION A-A

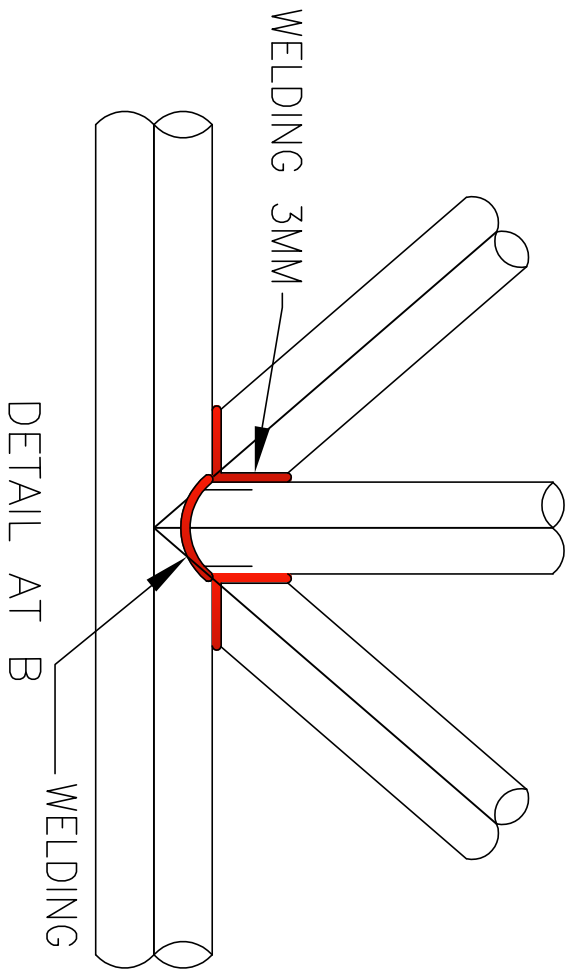


SECTION B-B

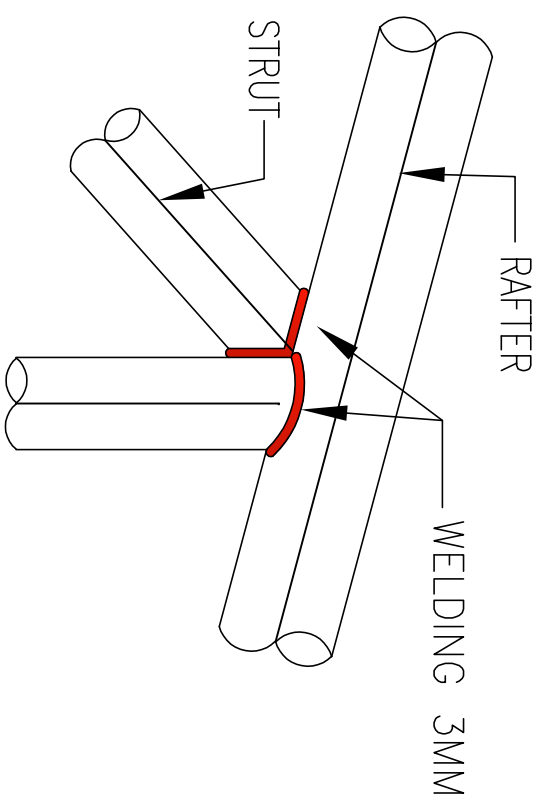
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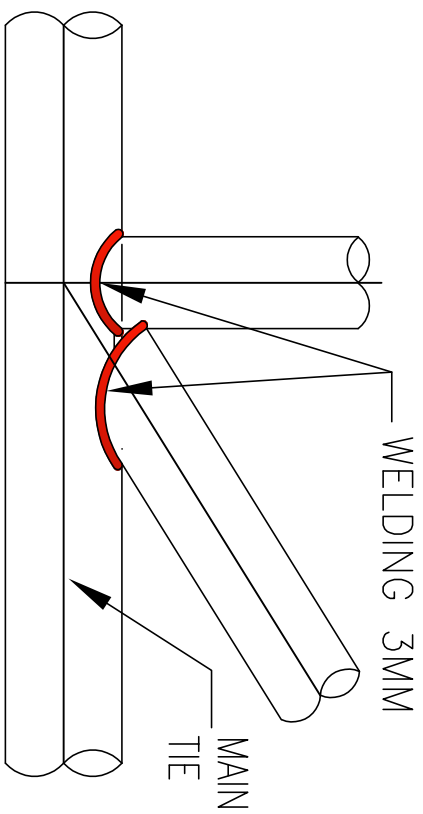
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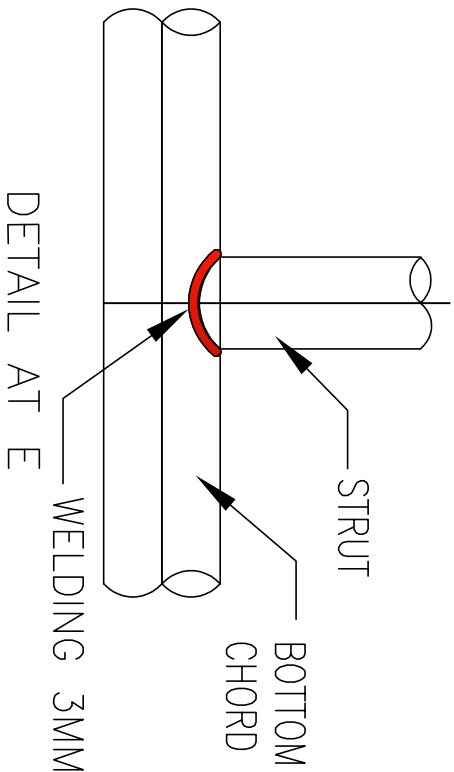
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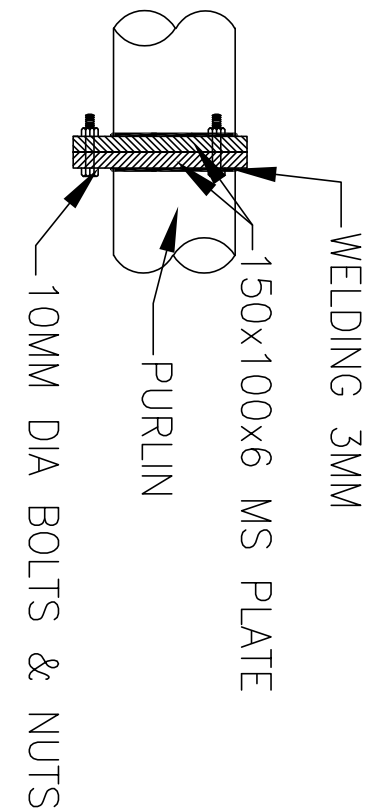
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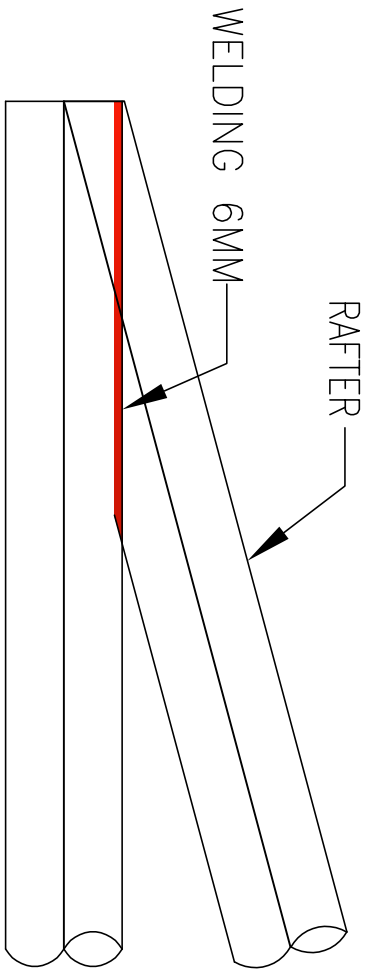
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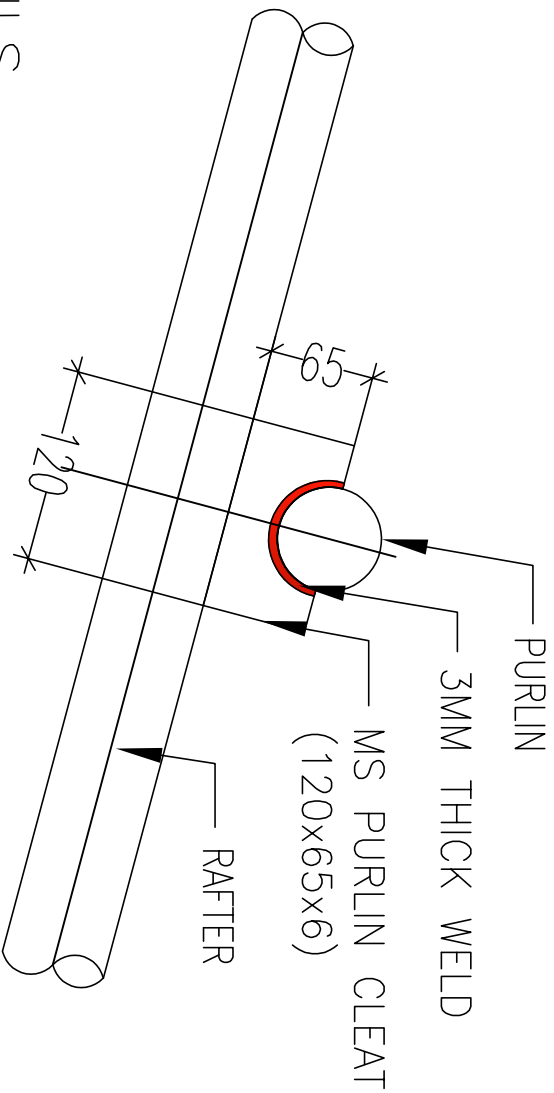
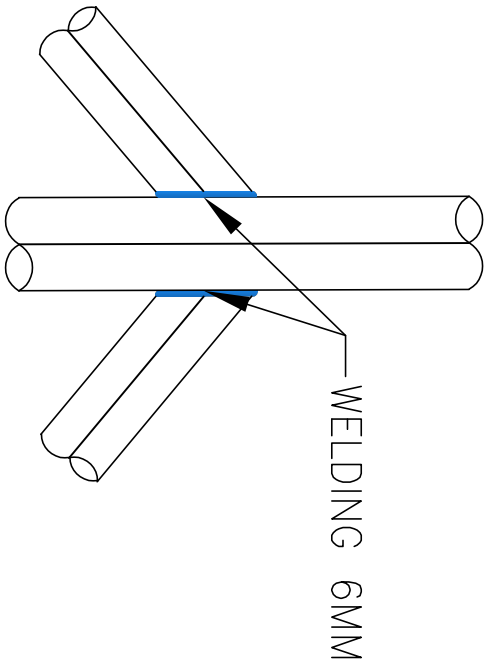
DETAIL AT E





TYPICAL PURLIN & RAFTER JOINERY DETAIL

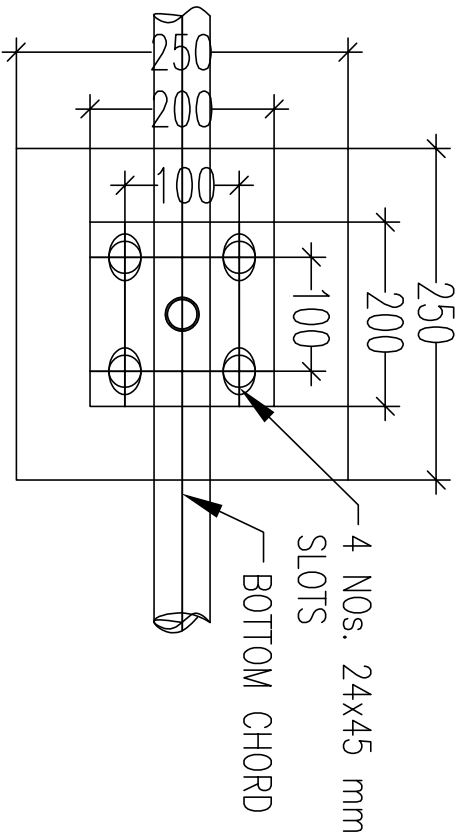


DETAIL AT F

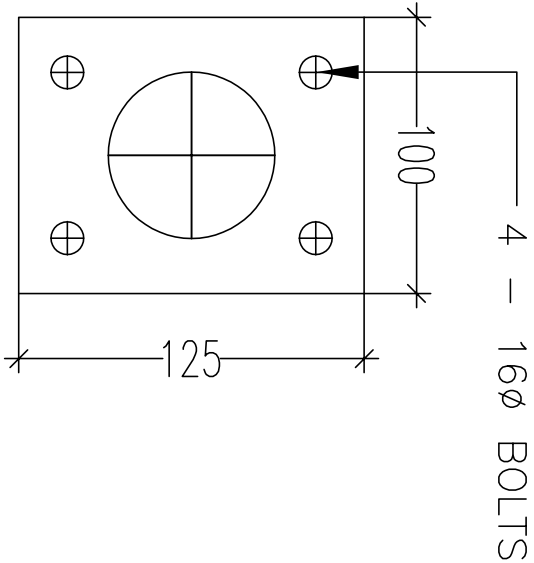


TYPICAL TRUSS JOINERY DETAILS

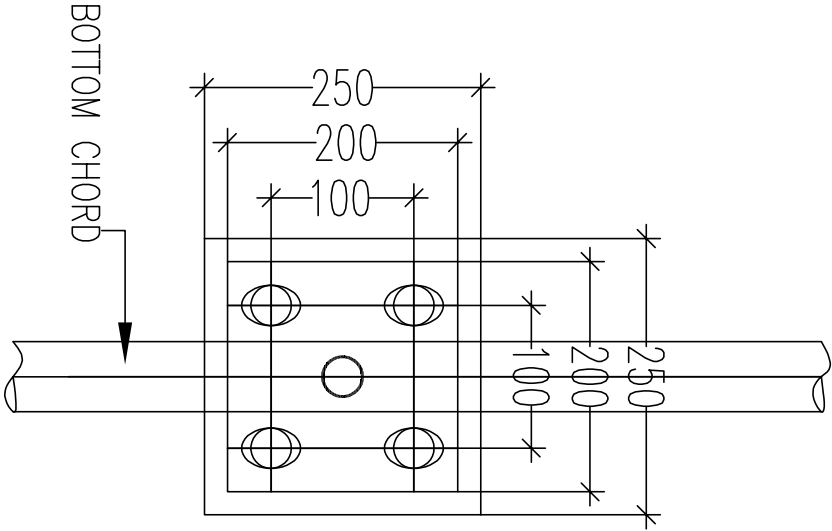
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TRANSMISSION DEPARTMENT											
PROJECT TITLE		REFERENCE NOTES									
DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGLAM		1. ALL MEASUREMENTS IN THE DRAWING ARE IN MM UNLESS AND OTHERWISE MENTIONED 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED 3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER									
DRAWING STATUS		APPROVAL <input type="checkbox"/>		APPROVED <input type="checkbox"/>		APPROVED BY		DESIGNED BY		DRAWING TITLE	
						KUNZANG TOBGYE GENERAL MANAGER TD, BPC		DORJI KINLEY EXECUTIVE ENGINEER TD, BPC		BPC/TD/TMD/NANGKHORS D	
										SCALE	
										DATE	
										REF DWG	
										FEBRUARY, 2022	
DWG # 42											



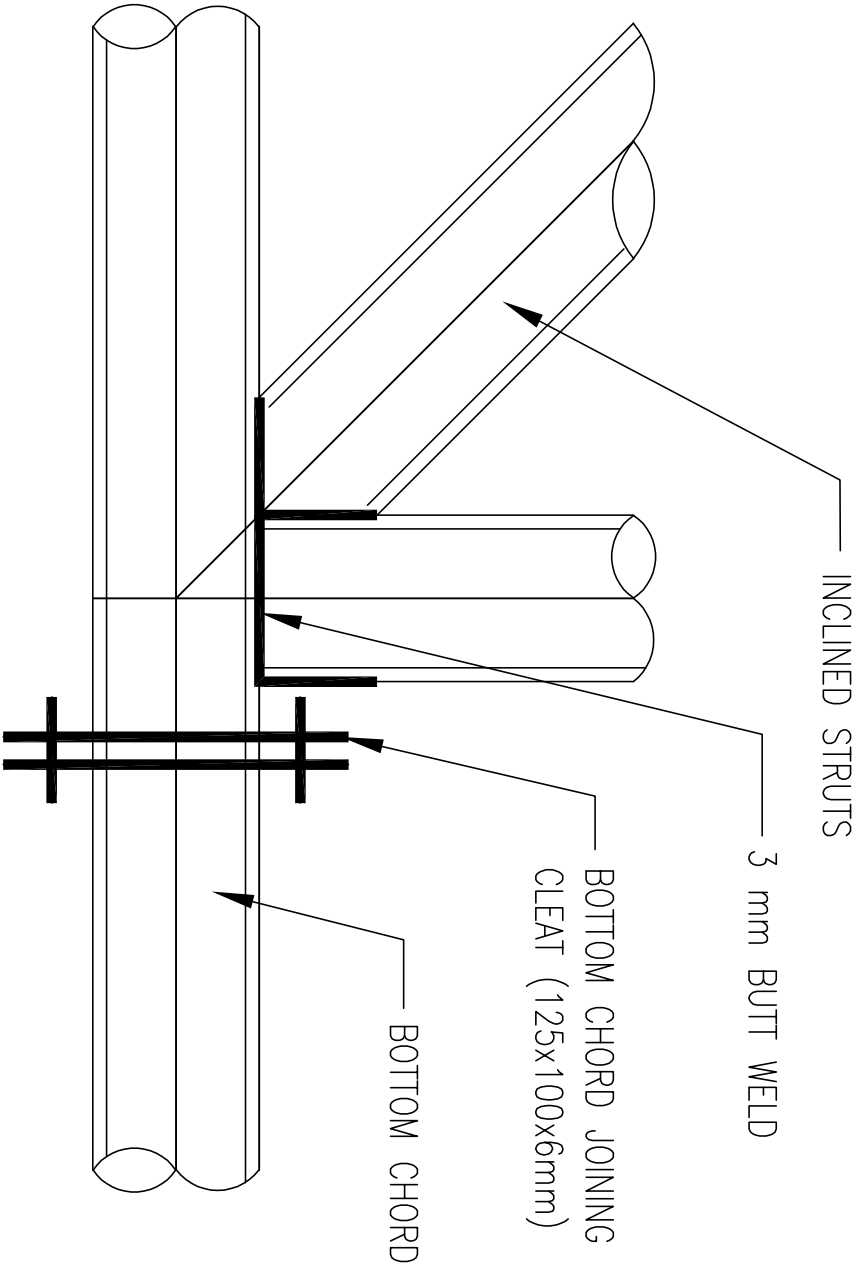
TRUSS HOLD-DOWN IN X DIRECTION



BOTTOM CHORD JOINING PLATE/CLEAT



TRUSS HOLD-DOWN IN Y DIRECTION




BOTTOM CHORD JOINING DETAILS

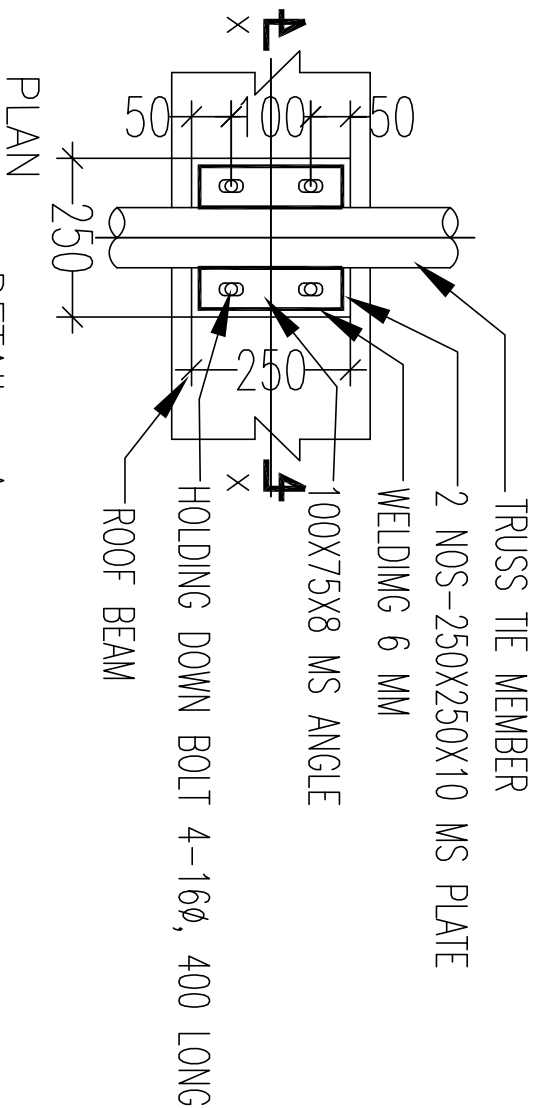
NOTE:

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

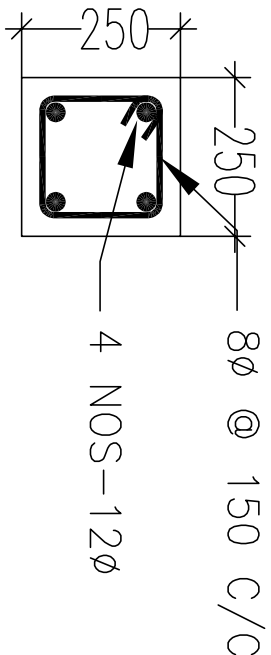
NOTES (FOR ROOF TRUSS):

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:5370/2/IS:5374
5. WASHERS SHALL CONFORM TO IS:5369, IS:5370/2/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.

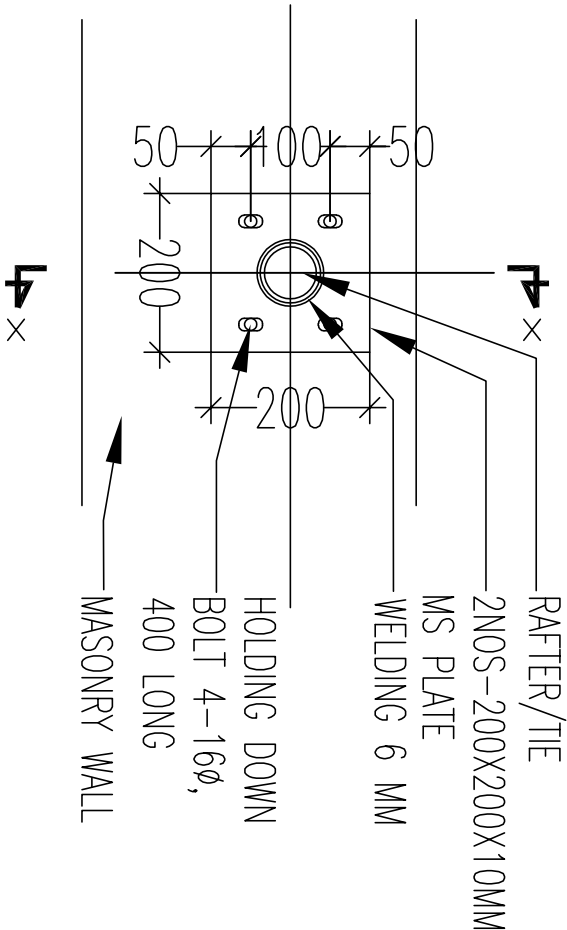
	BHUTAN POWER CORPORATION LIMITED TRANSMISSION DEPARTMENT		PROJECT TITLE DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGLAM		REFERENCE NOTES 1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED 2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED 3. ANY DISCREPANCY 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	DRAWING NO. BPC/TD/TMD/NANGKHORS/DWG # 43
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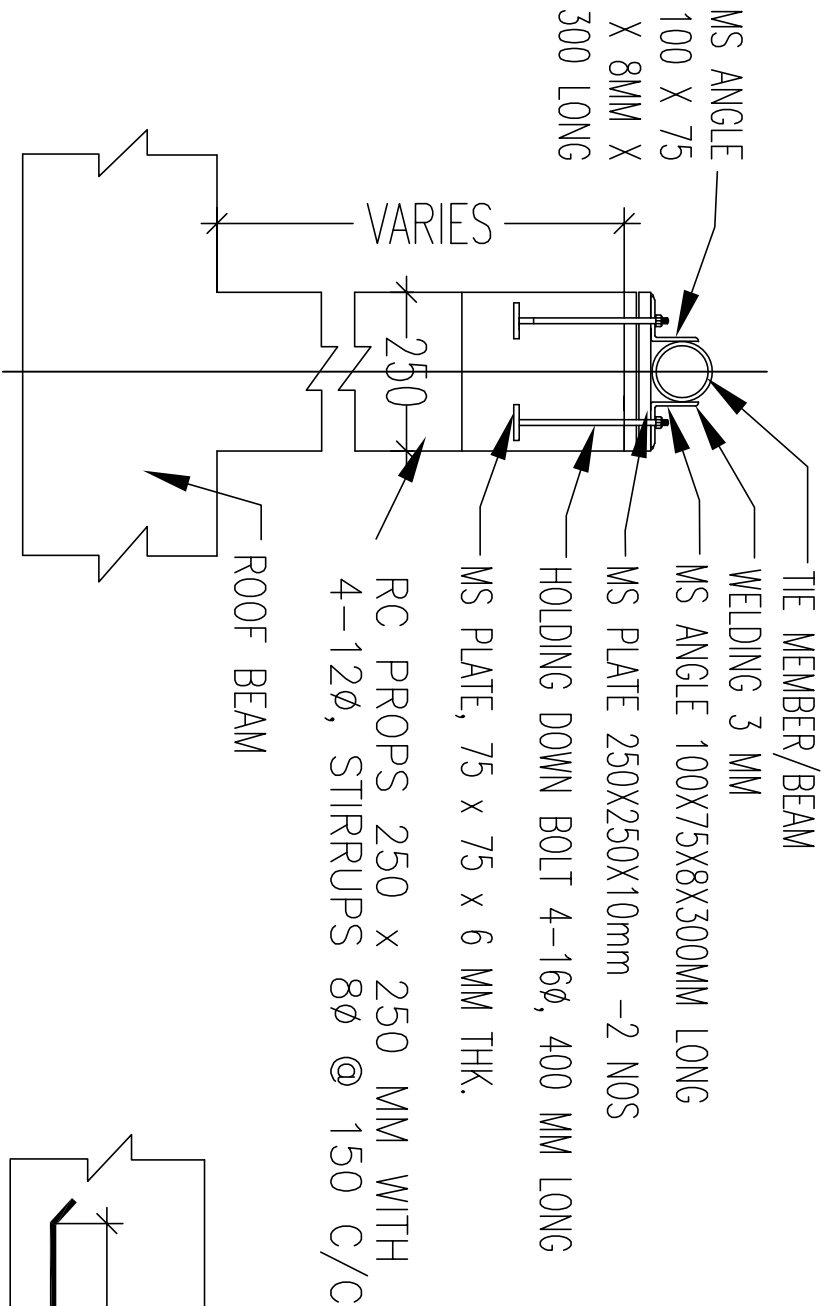
DETAIL -A



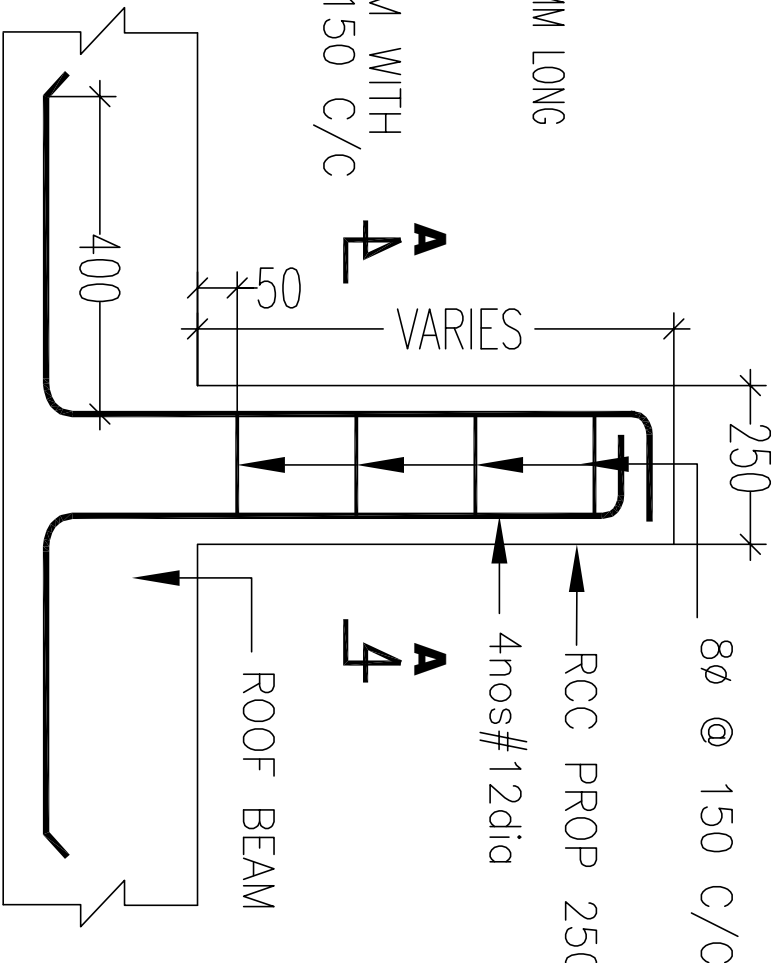
SECTION A-A



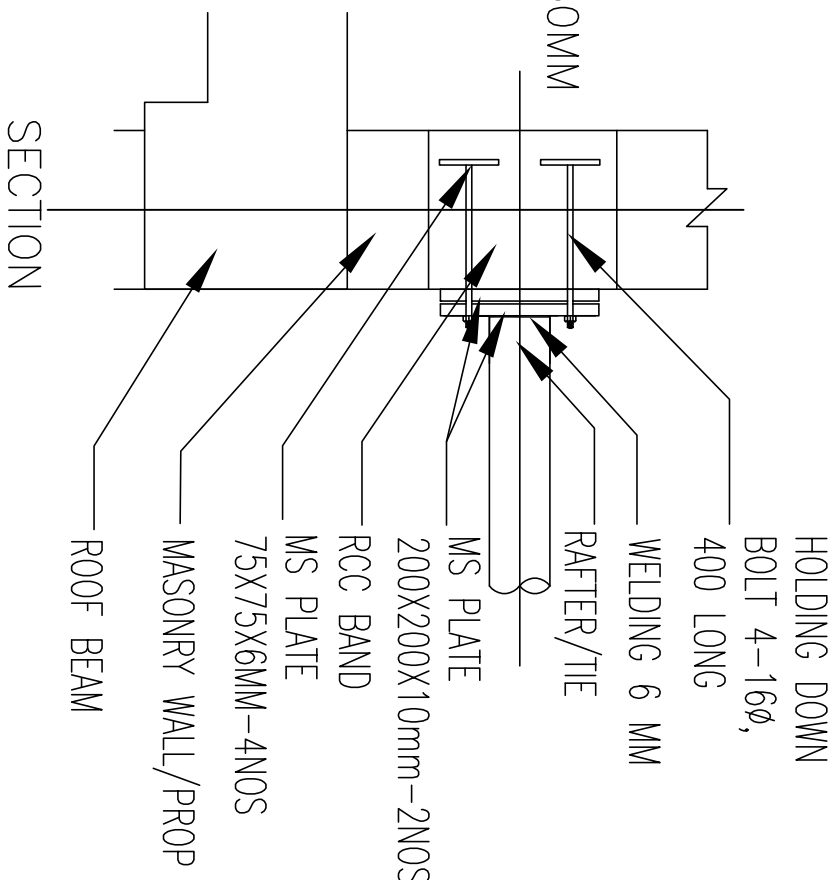
ELEVATION




SECTION X-X



DETAILS OF RCC PROP



ANCHORAGE DETAILS ON WALLS/BAND

<div><div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% BPO</div><div>100% 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BHUTAN POWER CORPORATION LIMITED

TRANSMISSION DEPARTMENT

PROJECT TITLE

**DESIGN OF STAFF QUARTER (G+2) AT
TSENKHARI NANGI AM**

TSENKHARI, NANGLAM

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
TD, BPC

NEED BY

DORJI KINLEY
EXECUTIVE ENGINEER
TD, BPC

DRAFTING TITLE

REFER DRAWING

SCALE

FDWG

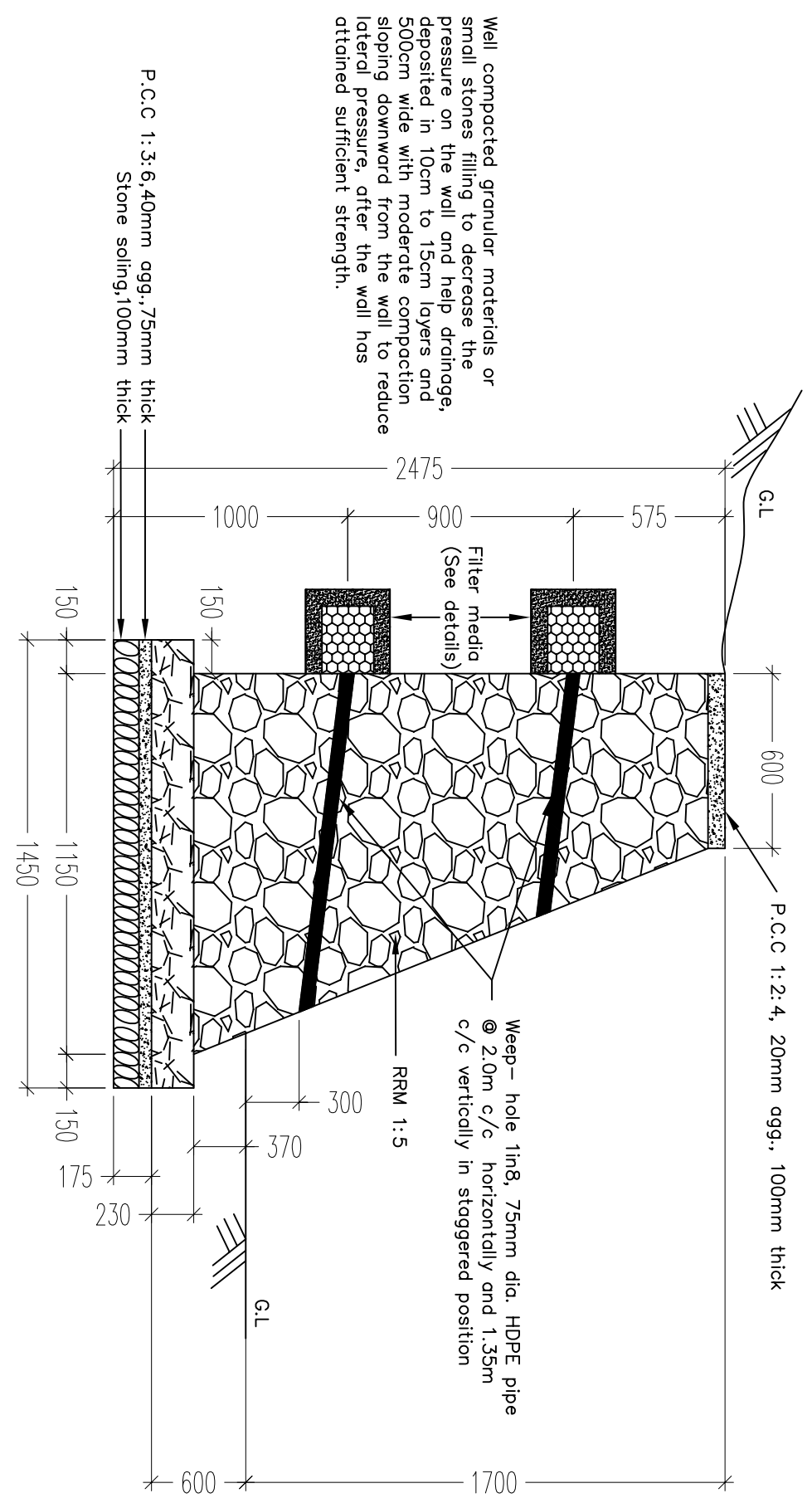
G TITLE

DATE
FEBRUARY, 2022

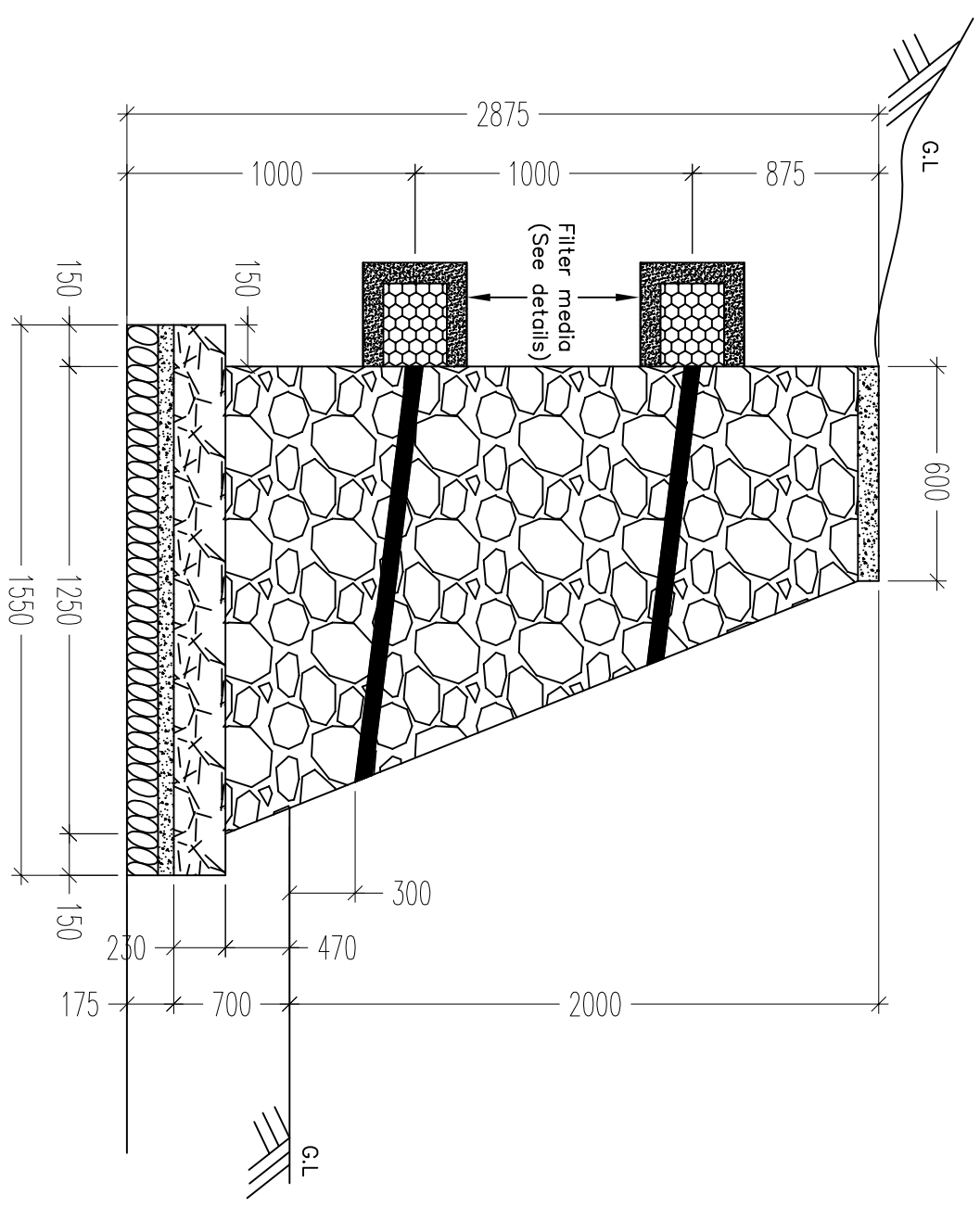
DRAWING NO.

BPC/TD/TMD/NANGKHOR/SD

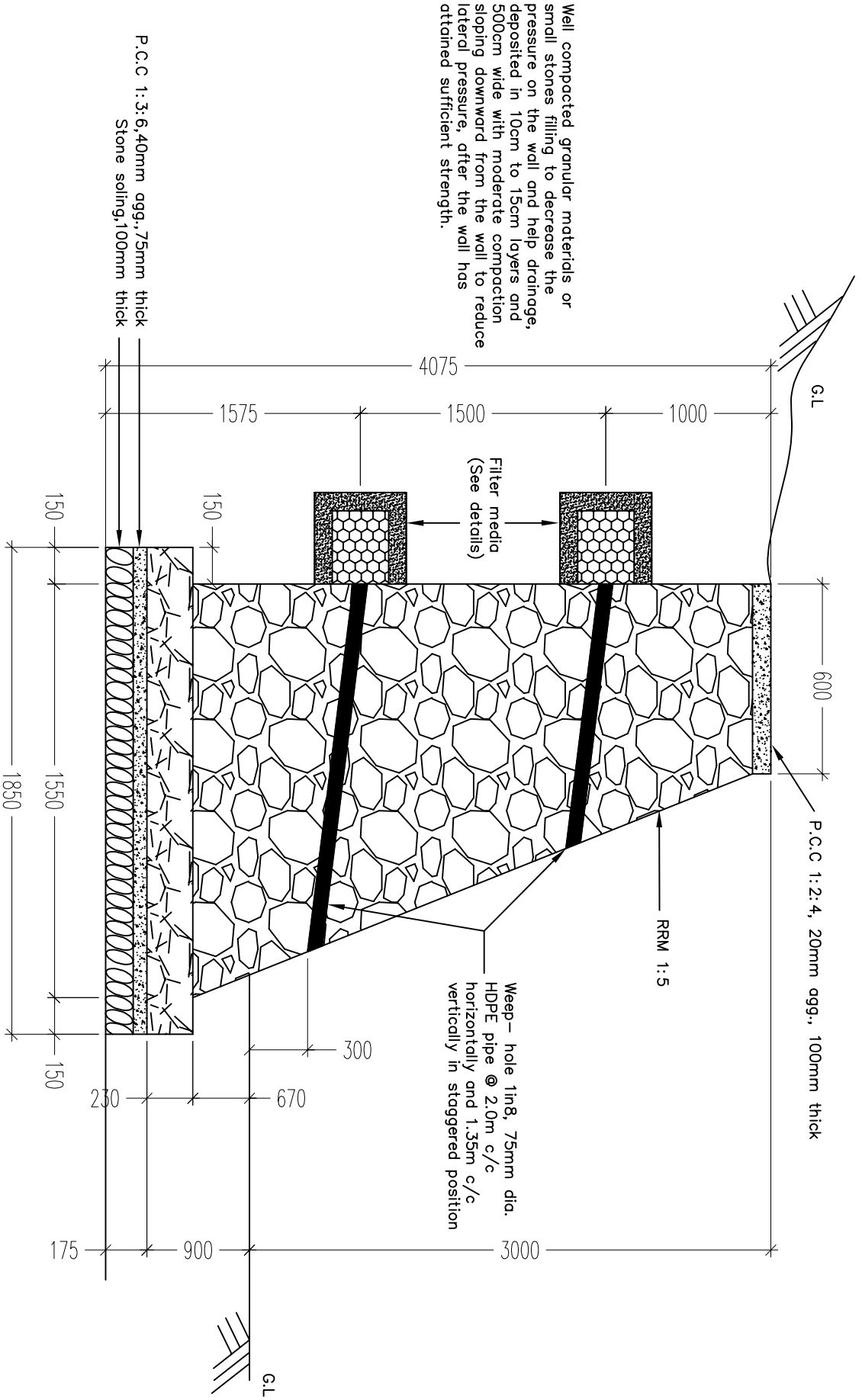
DWG # 45



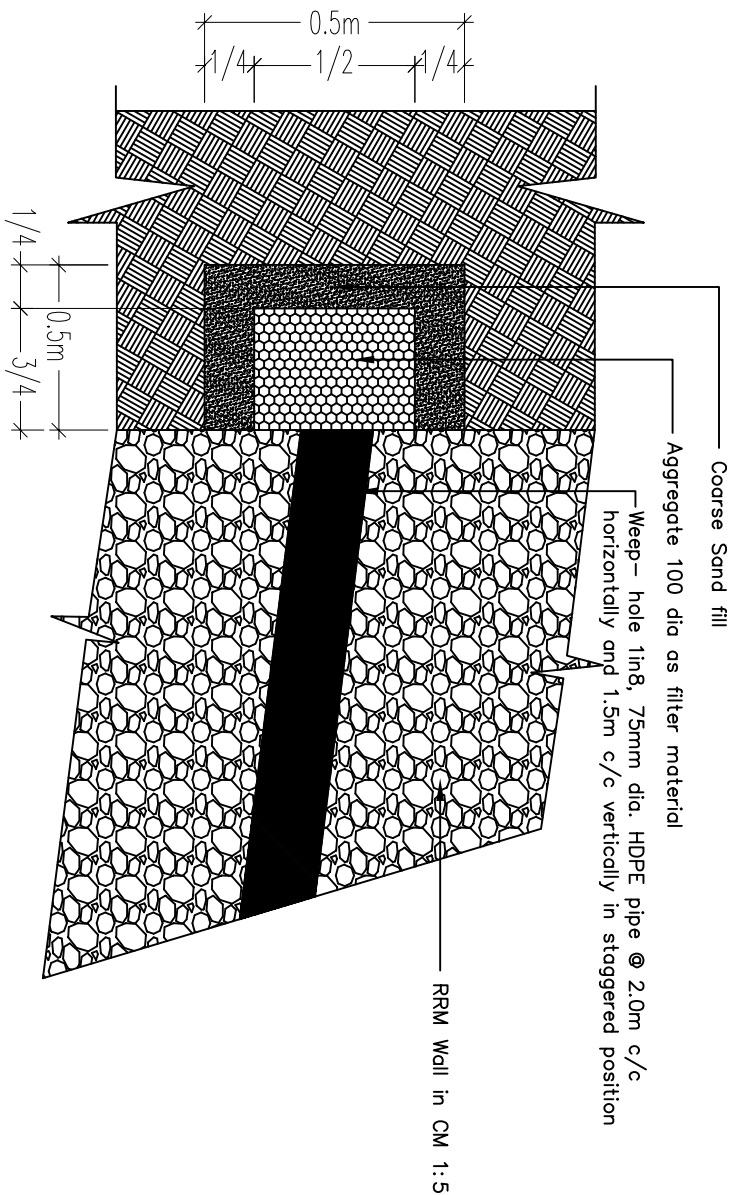
RETAINING WALL 1.7M HEIGHT



RETAINING WALL 2M HEIGHT




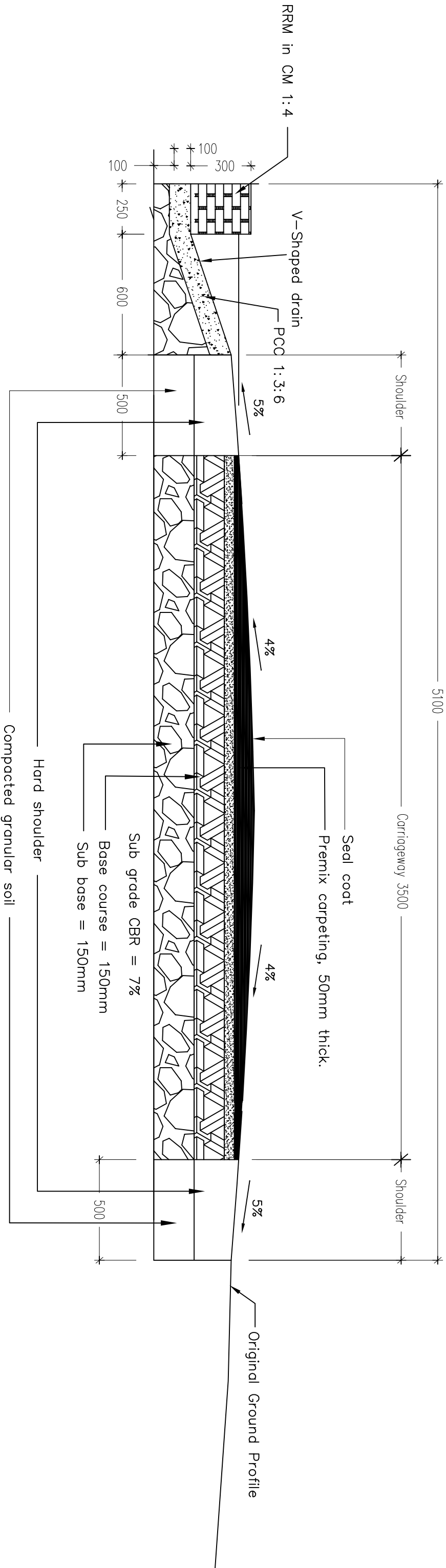
RETAINING WALL 3M HEIGHT



Well compacted granular materials or small stones filling to decrease the pressure on the wall and help drainage, deposited in 10cm to 15cm layers and 500cm wide with moderate compaction sloping downward from the wall to reduce lateral pressure, after the wall has obtained sufficient strength.

FILTER 0.50Mx0.50Mx0.50M LAID @ WEEP HOLES

		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE	
BHUTAN POWER CORPORATION LIMITED		DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGLAM		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/NANGKHORS/D	
TRANSMISSION DEPARTMENT		DRAWING STATUS		SCALE		DATE		REF DWG		FEBRUARY, 2022	
		APPROVAL		APPROVED						DWG # 46	



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་གཙང་ལྷན་ཁག་</div><div>འབྲུག་ཡུལ་གྱི་འཕུལ་གཙང་ལྷན་ཁག་</div></div></div></div></div></div>		<div><div>BHUTAN POWER CORPORATION LIMITED</div><div>TRANSMISSION DEPARTMENT</div></div>		PROJECT TITLE		REFERENCE NOTES		APPROVED BY		DESIGNED BY		DRAWING TITLE		DRAWING NO.	
		DESIGN OF STAFF QUARTER (G+2) AT TSENKHAR, NANGLAM		1. ALL MEASUREMENTS IN THE DRAWING ARE IN mm UNLESS AND OTHERWISE MENTIONED		KUNZANG TOBGYE GENERAL MANAGER TD, BPC						BPC/TD/TMD/NANGKHOR/SD			
		DRAWING STATUS		2. THE MEASUREMENTS IN THE DRAWING ARE TO BE READ AND NOT MEASURED		DORJI KINLEY EXECUTIVE ENGINEER TD, BPC		SCALE		DATE		DWG # 47			
		APPROVAL		3. ANY DISCREPANCY IN THE DRAWING SHALL BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE DESIGNER		REF DWG		FEBRUARY, 2022							