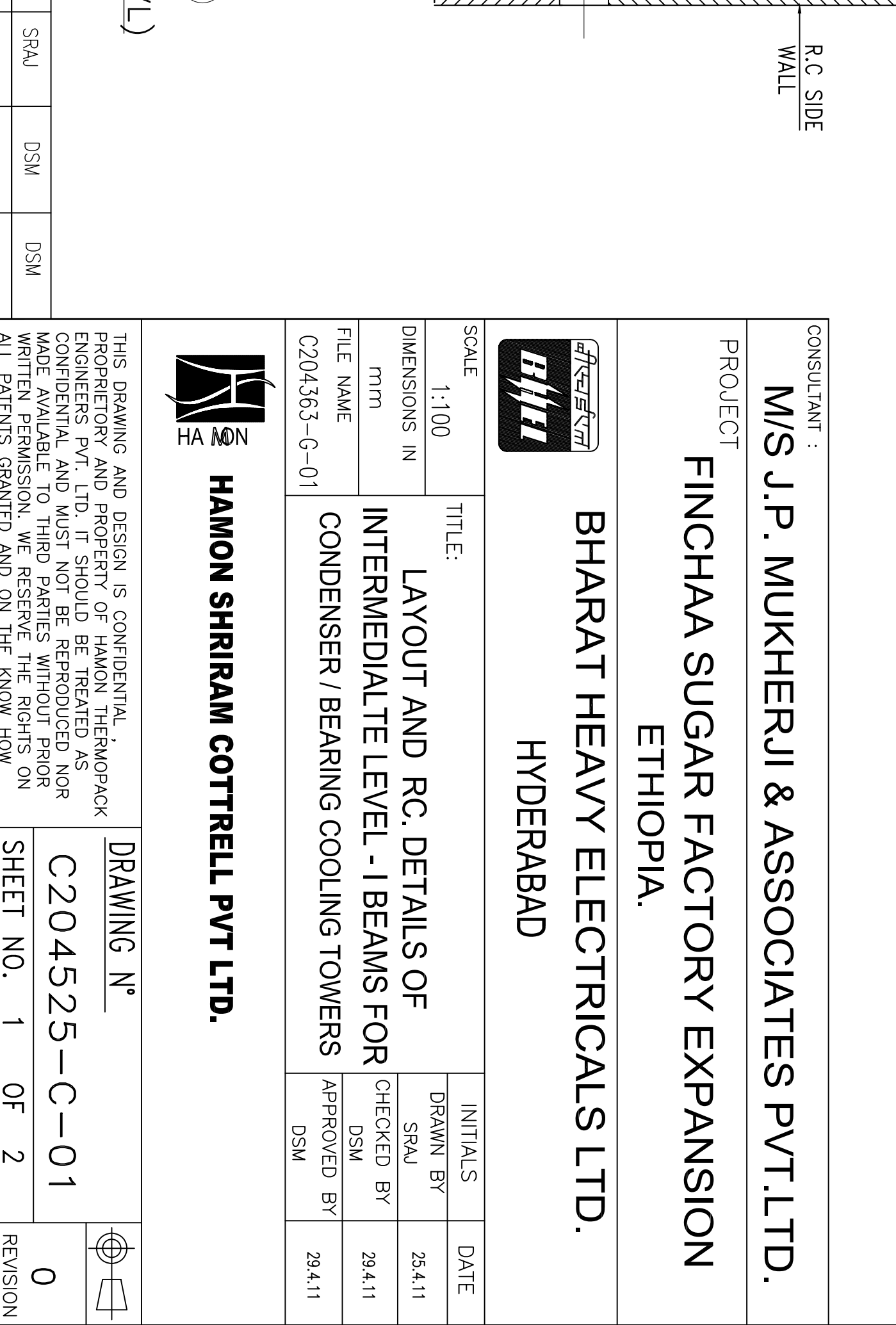
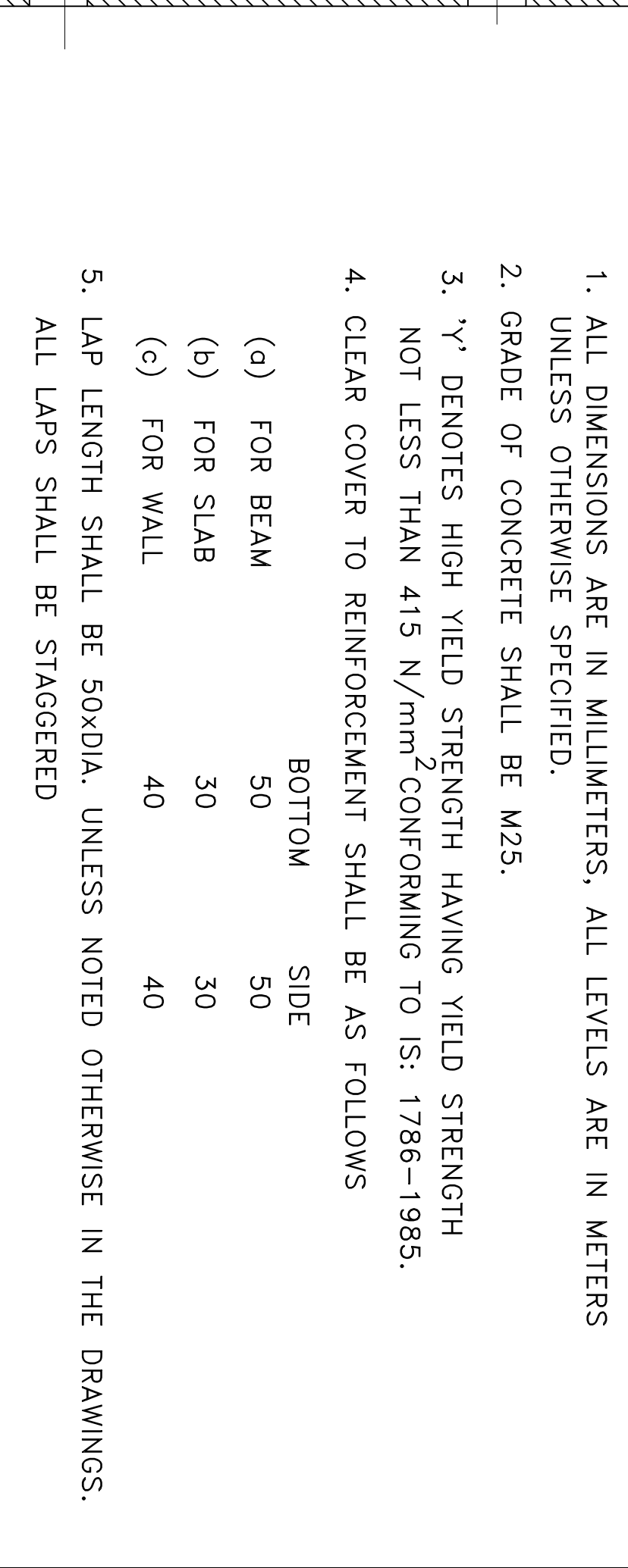
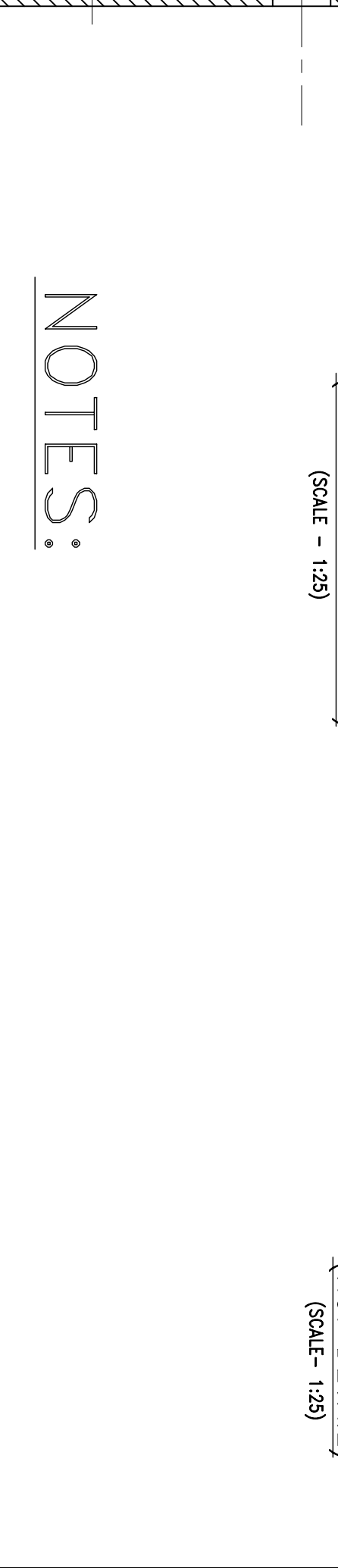
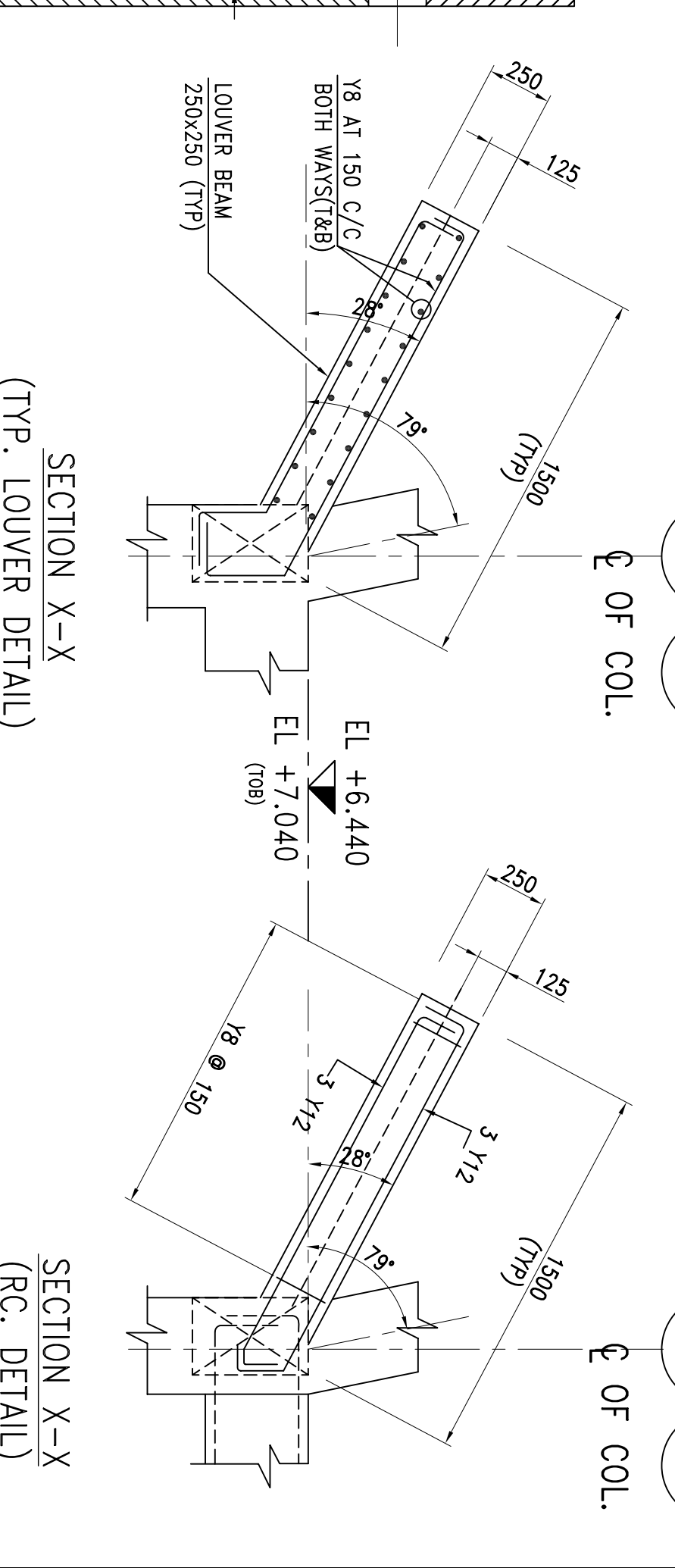
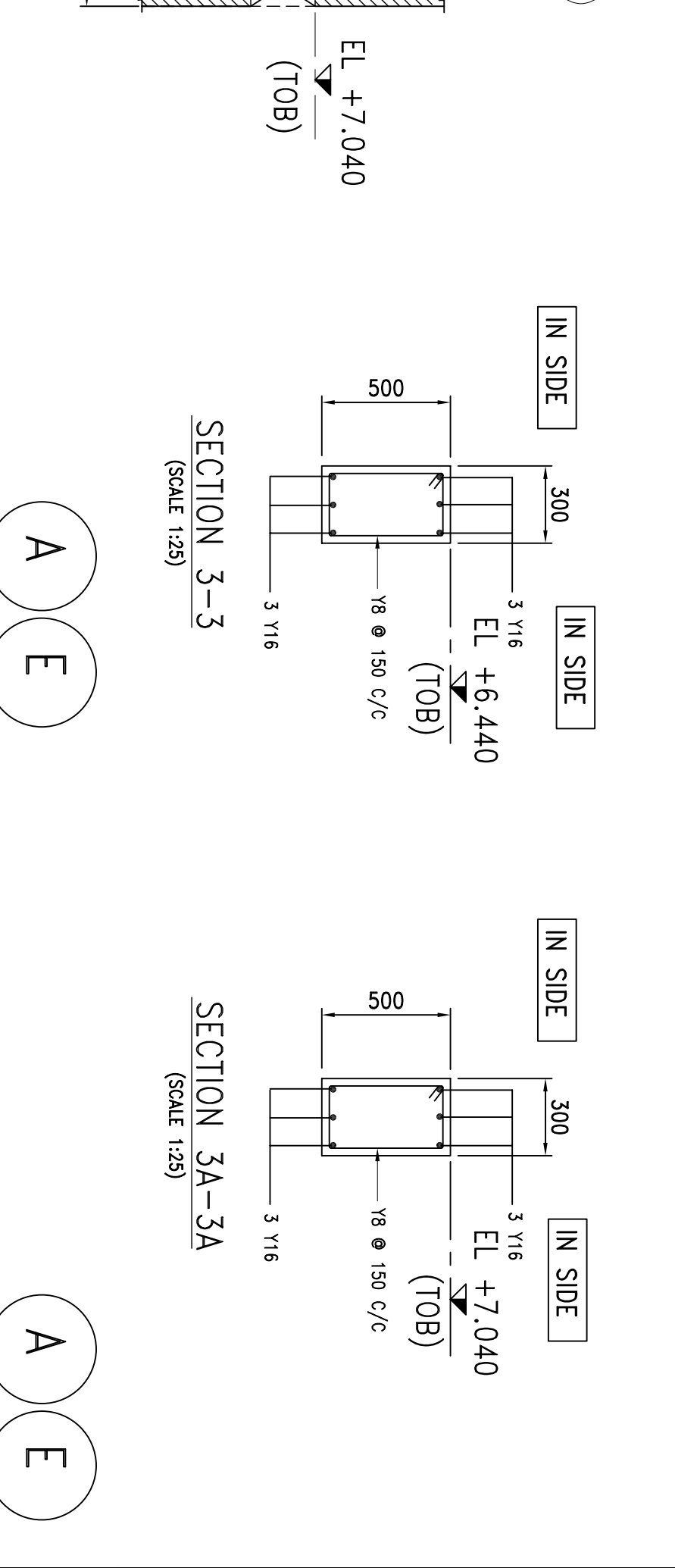
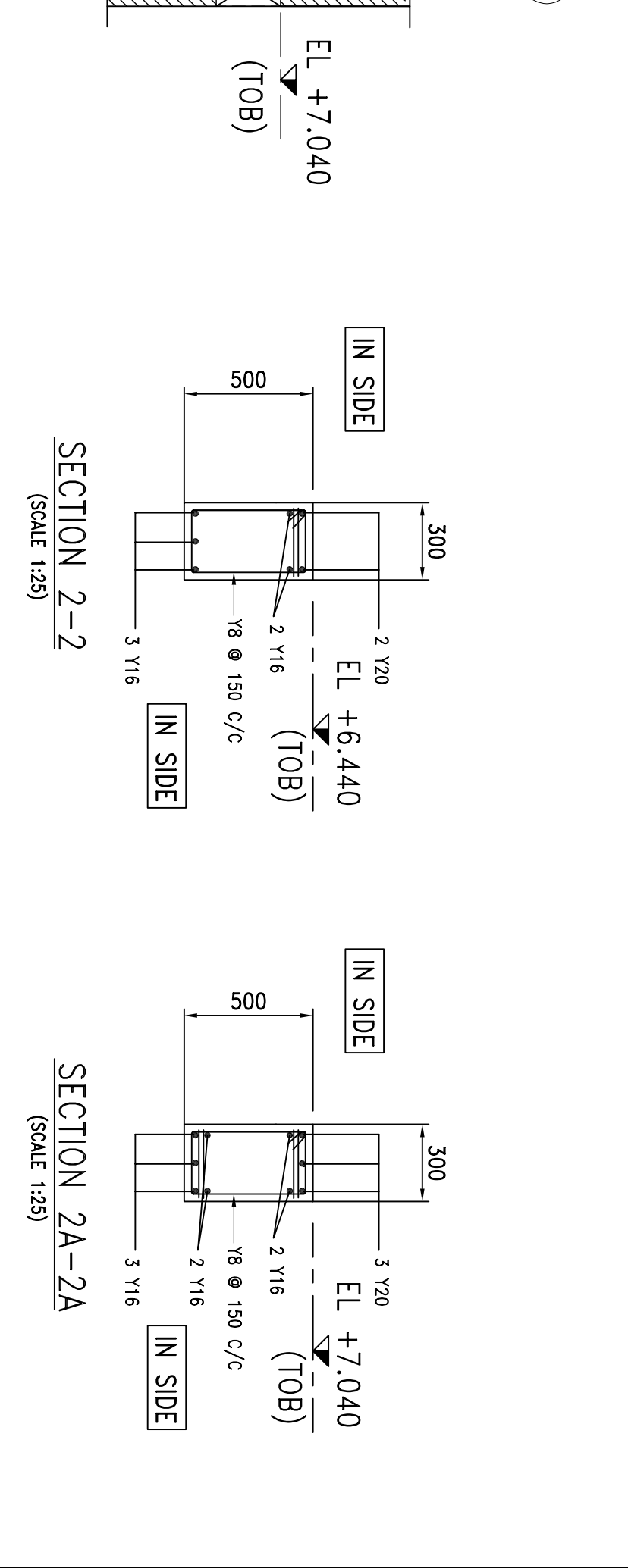
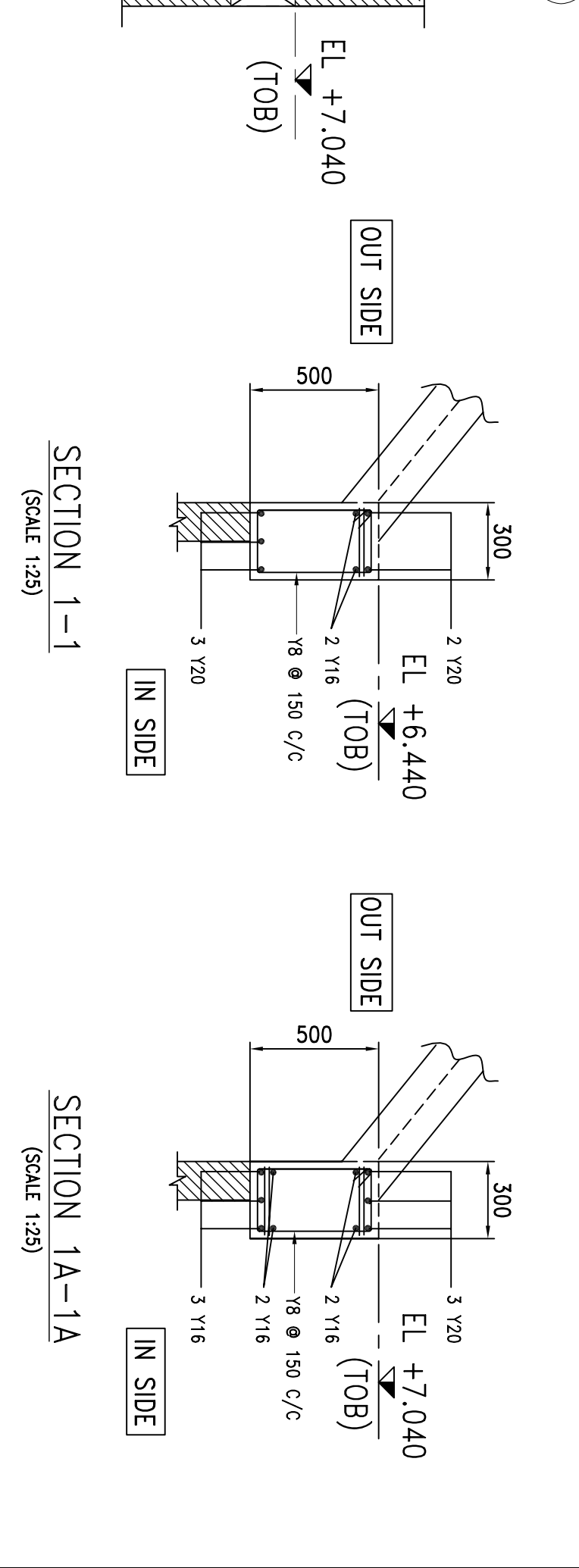
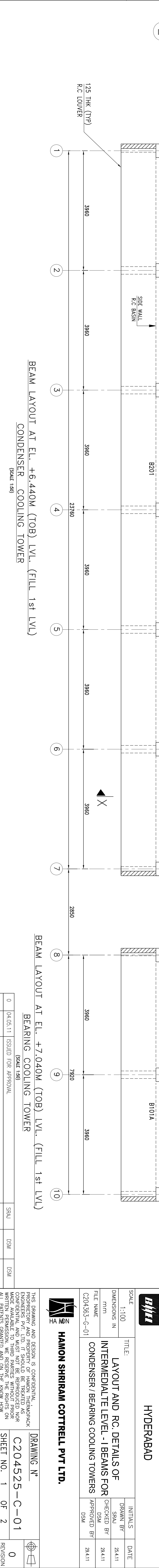
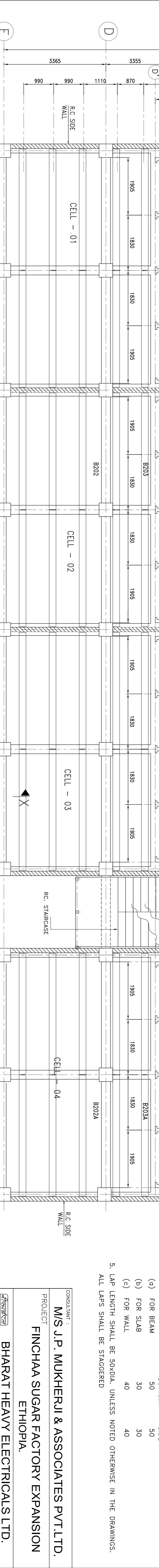
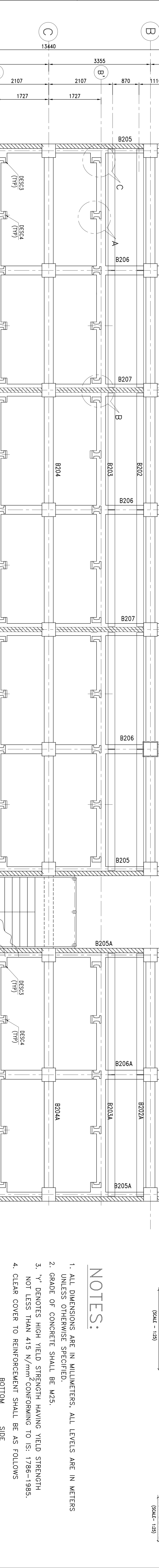
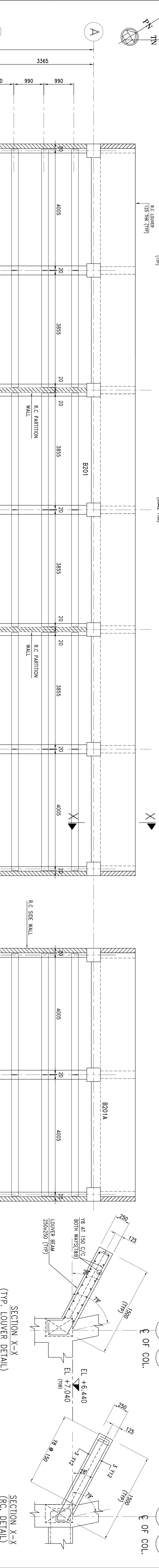
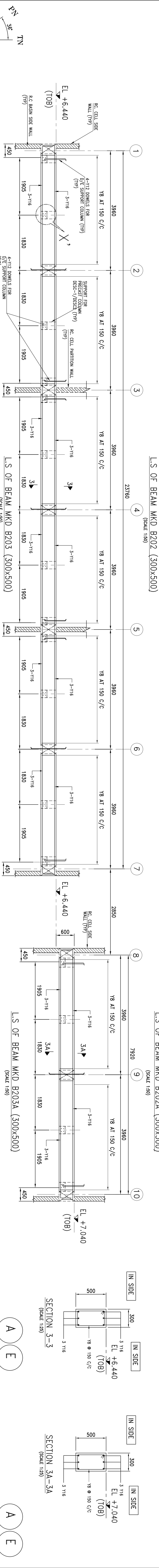
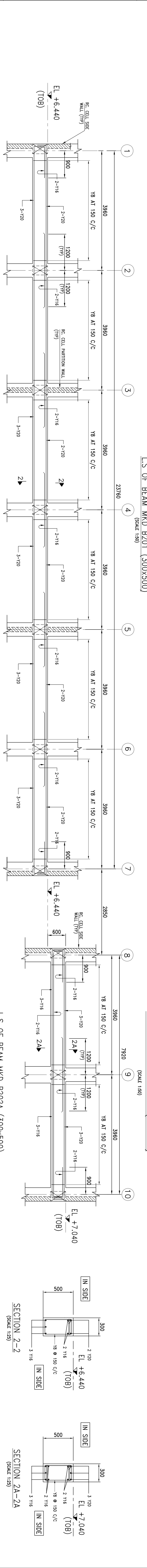
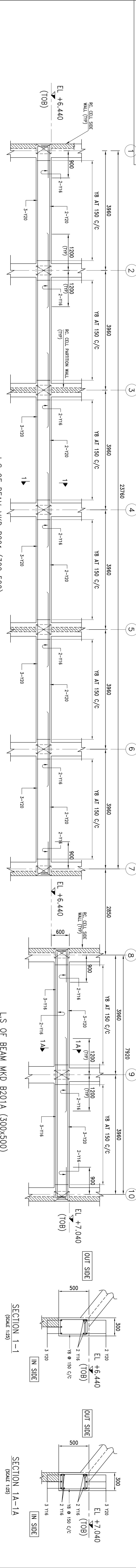
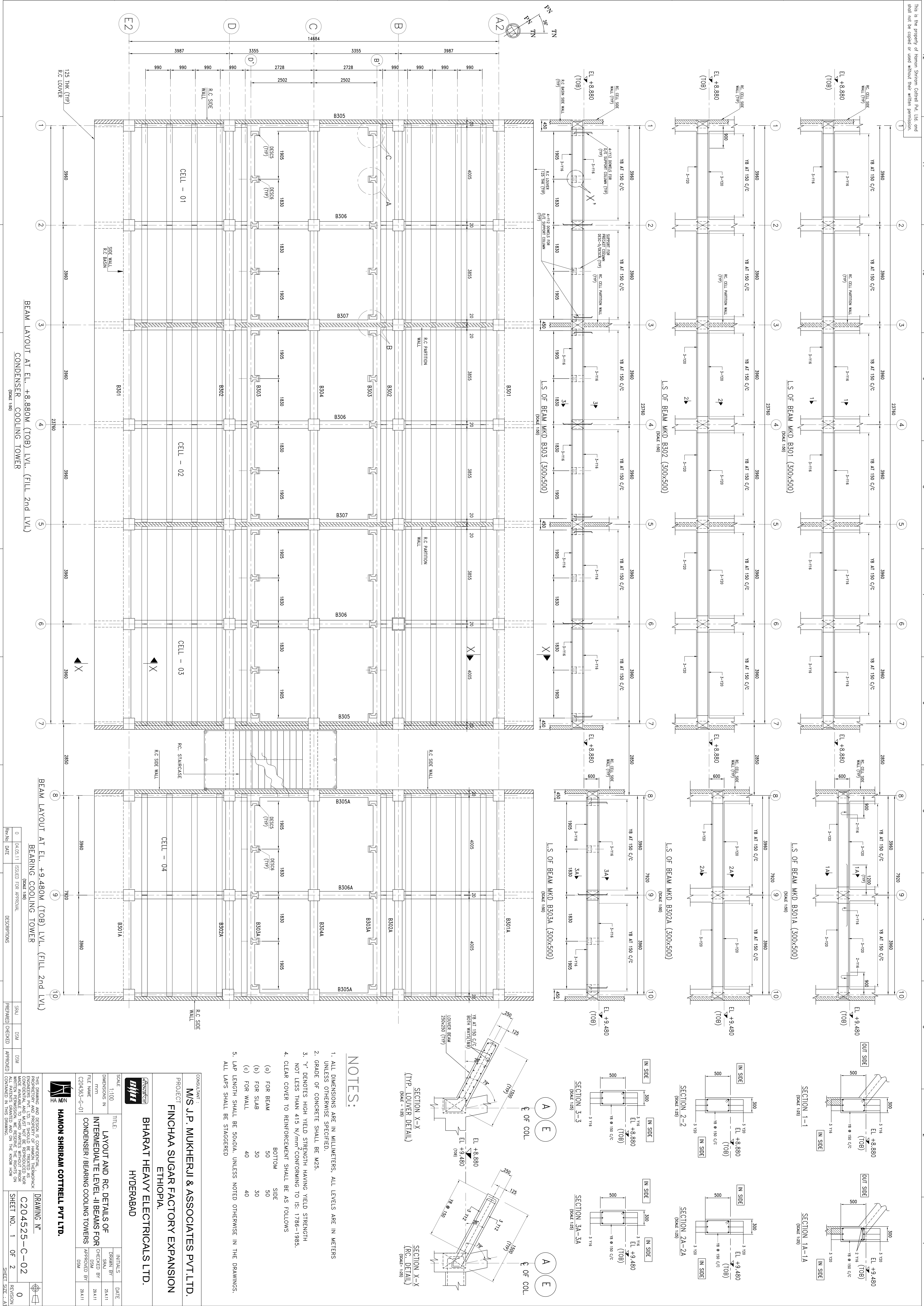
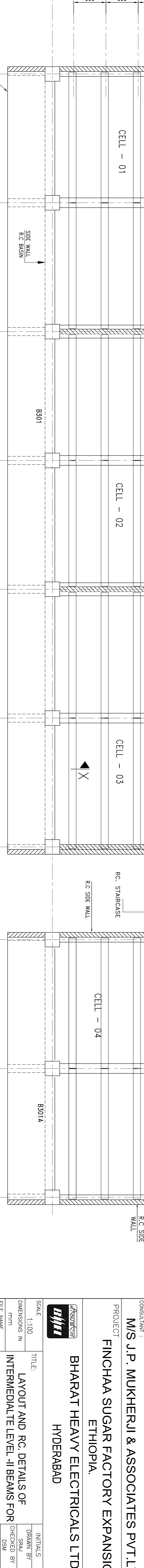
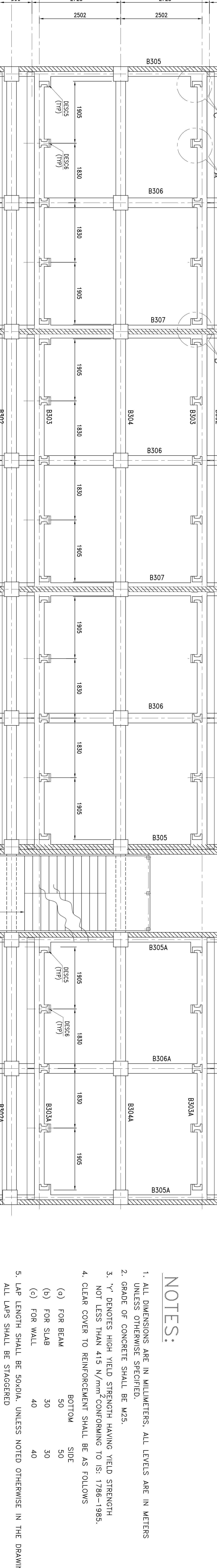
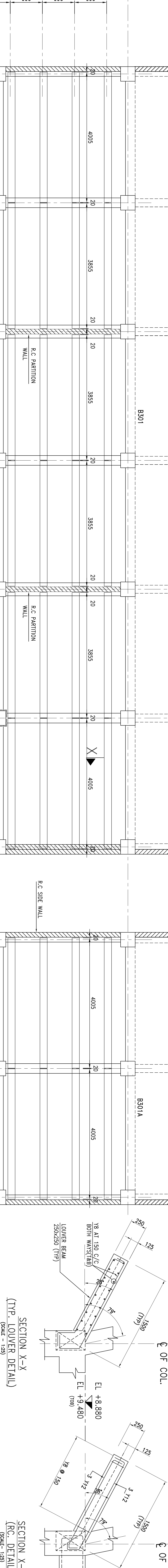
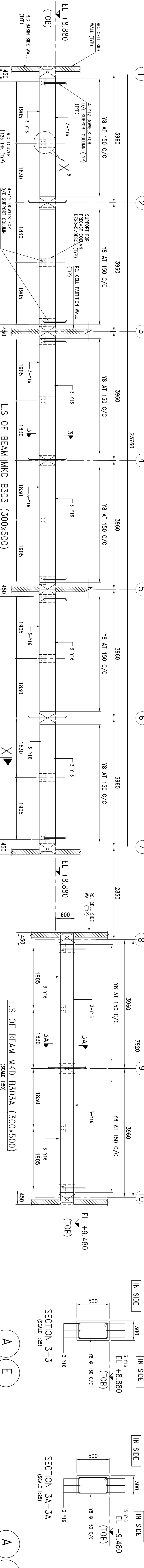
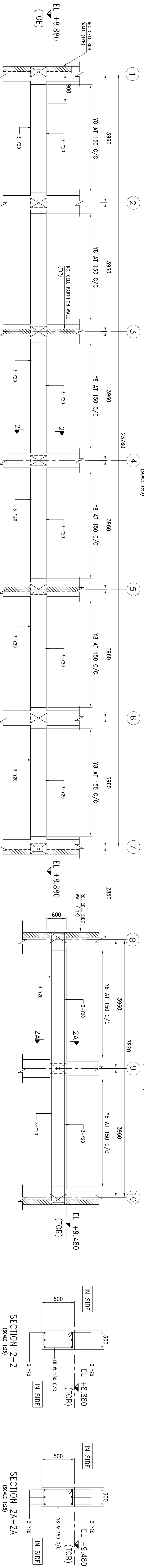
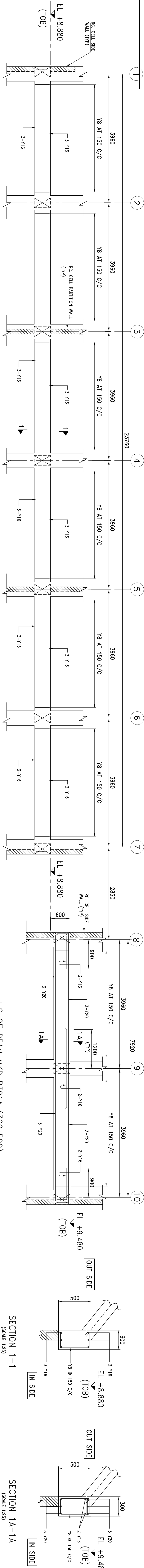






NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS. ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. GRADE OF CONCRETE SHALL BE M25.
3. 'Y' DENOTES HIGH YIELD STRENGTH HAVING YIELD STRENGTH NOT LESS THAN 415 N/mm² CONFORMING TO IS: 1786-1985.
4. CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS
 - (a) FOR BEAM 50
 - (b) FOR SLAB 30
 - (c) FOR WALL 40
5. LAP LENGTH SHALL BE 50DIA. UNLESS NOTED OTHERWISE IN THE DRAWINGS. ALL LAPS SHALL BE STAGGERED

CONSULTANT : **M/S J.P. MUKHERJI & ASSOCIATES PVT.LTD.**

PROJECT : **FINCHAA SUGAR FACTORY EXPANSION ETHIOPIA.**

HYDERABAD

HAEMON SHIRAM COTTRELL PVT LTD.

SCALE: 1:100

TITLE: LAYOUT AND RC. DETAILS OF INTERMEDIATE LEVEL -II BEAMS FOR CONDENSER / BEARING COOLING TOWERS

FILE NAME: C204525-C-01

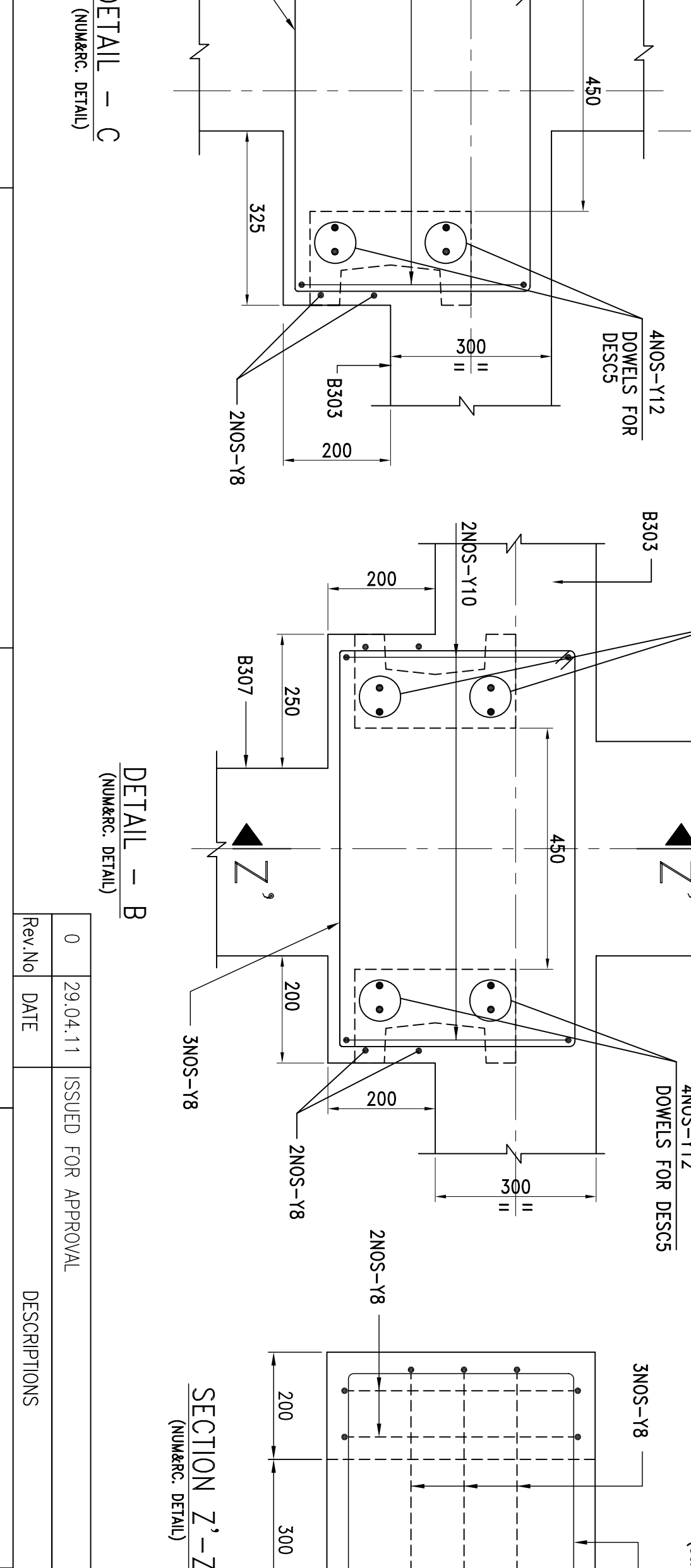
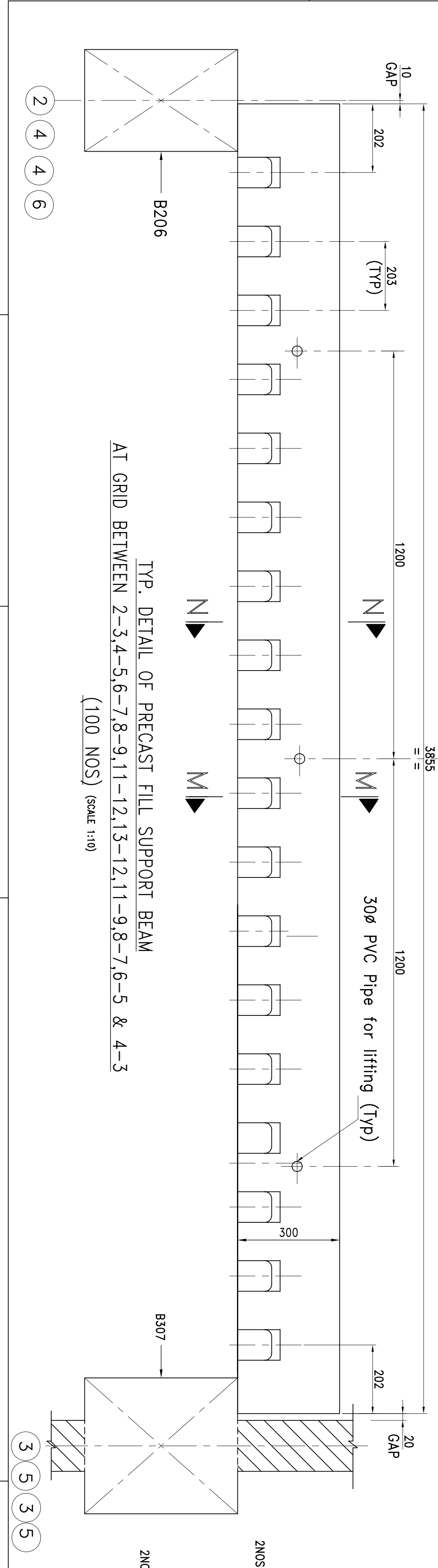
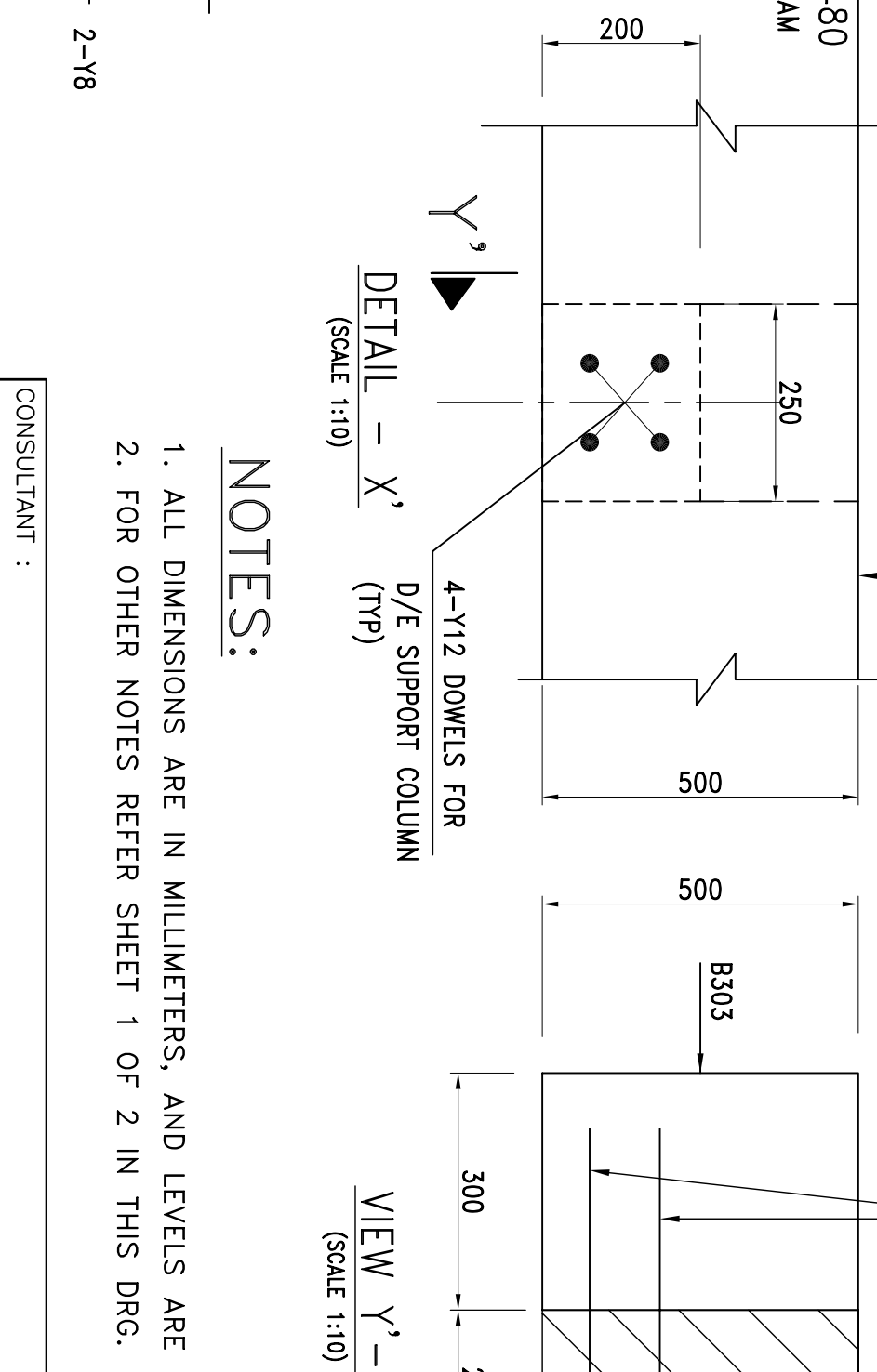
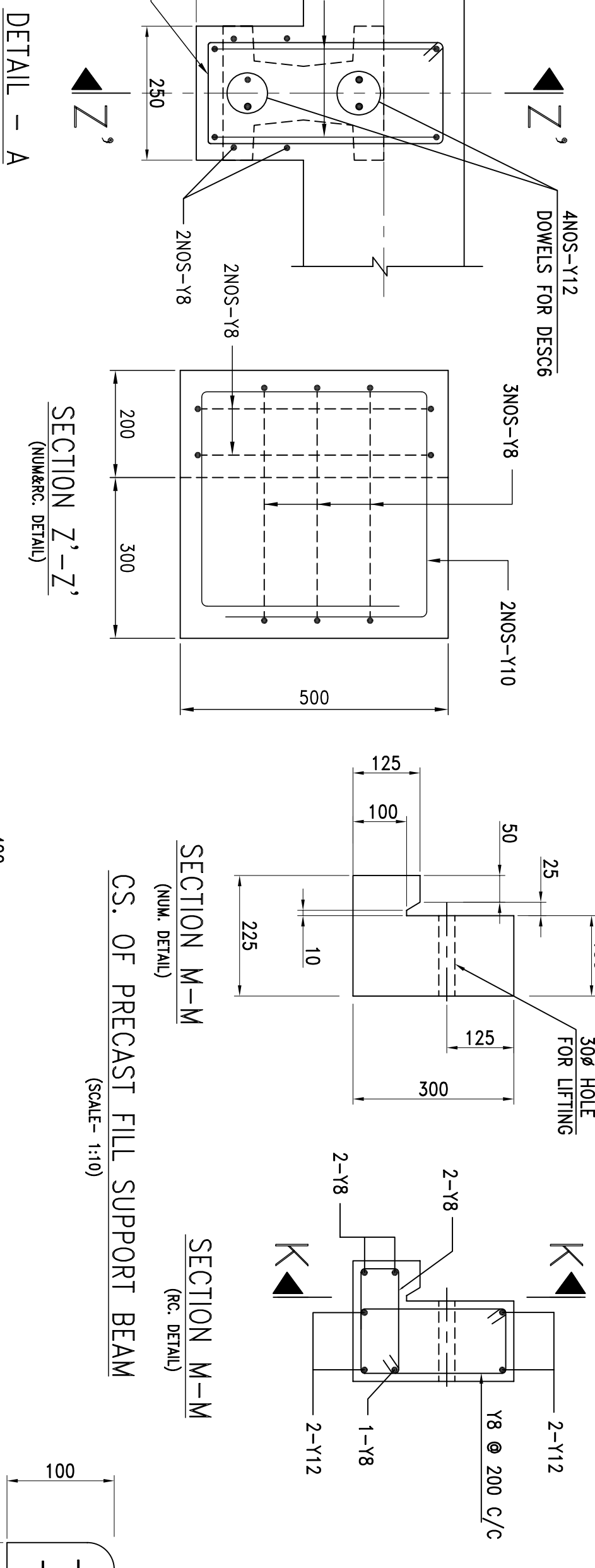
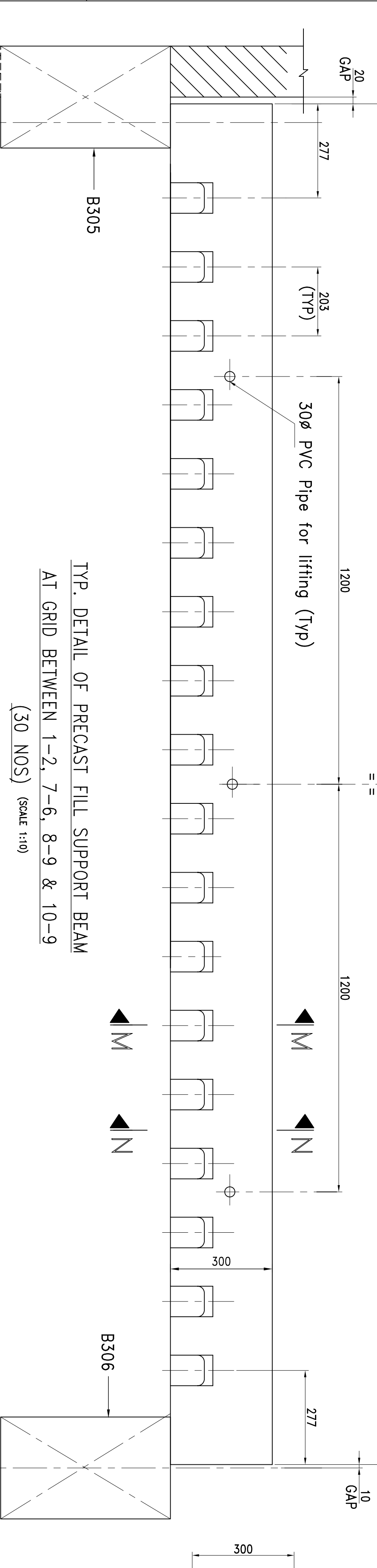
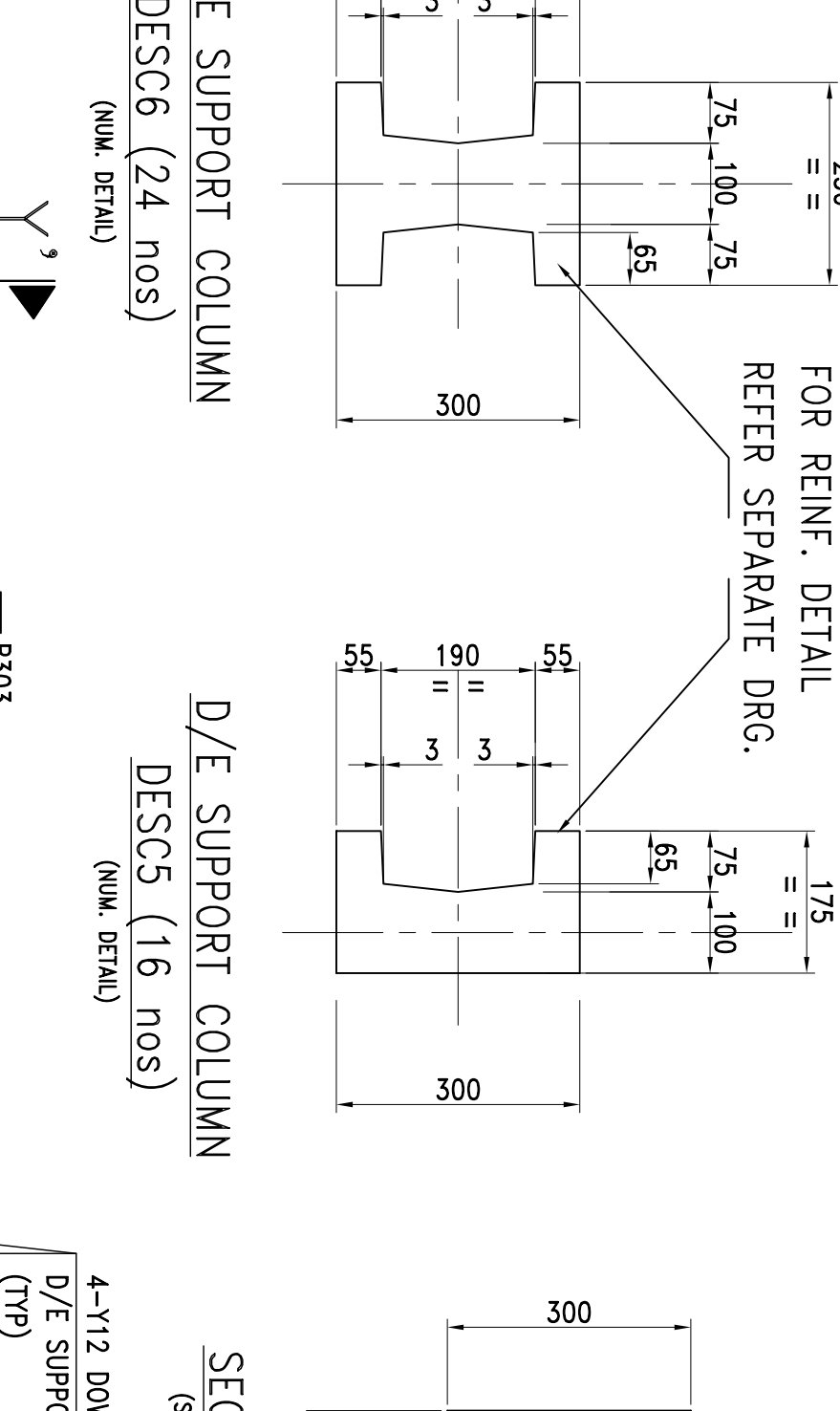
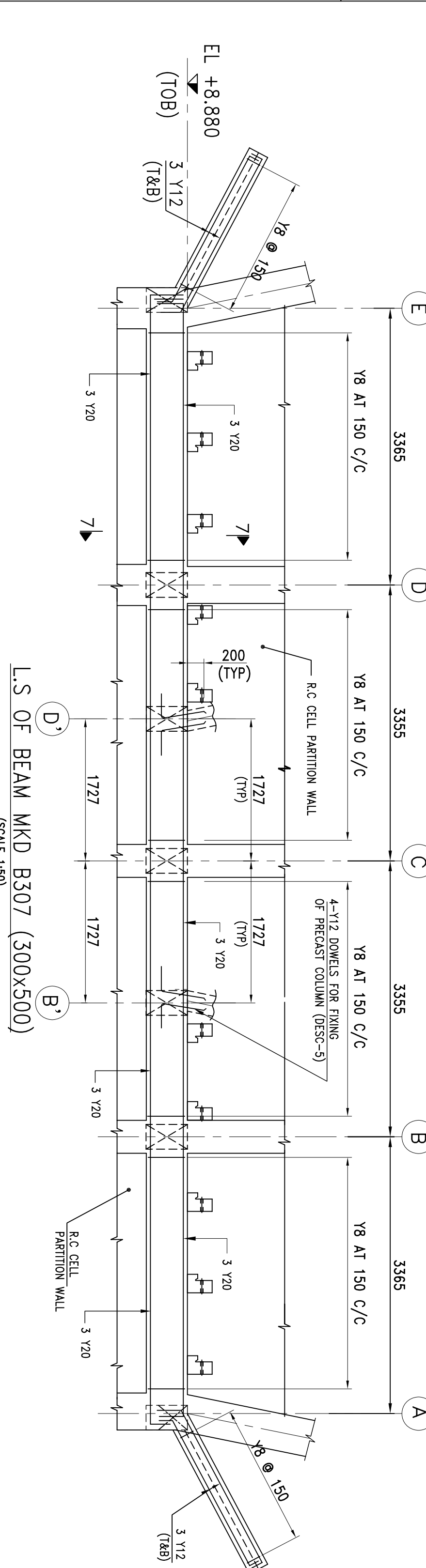
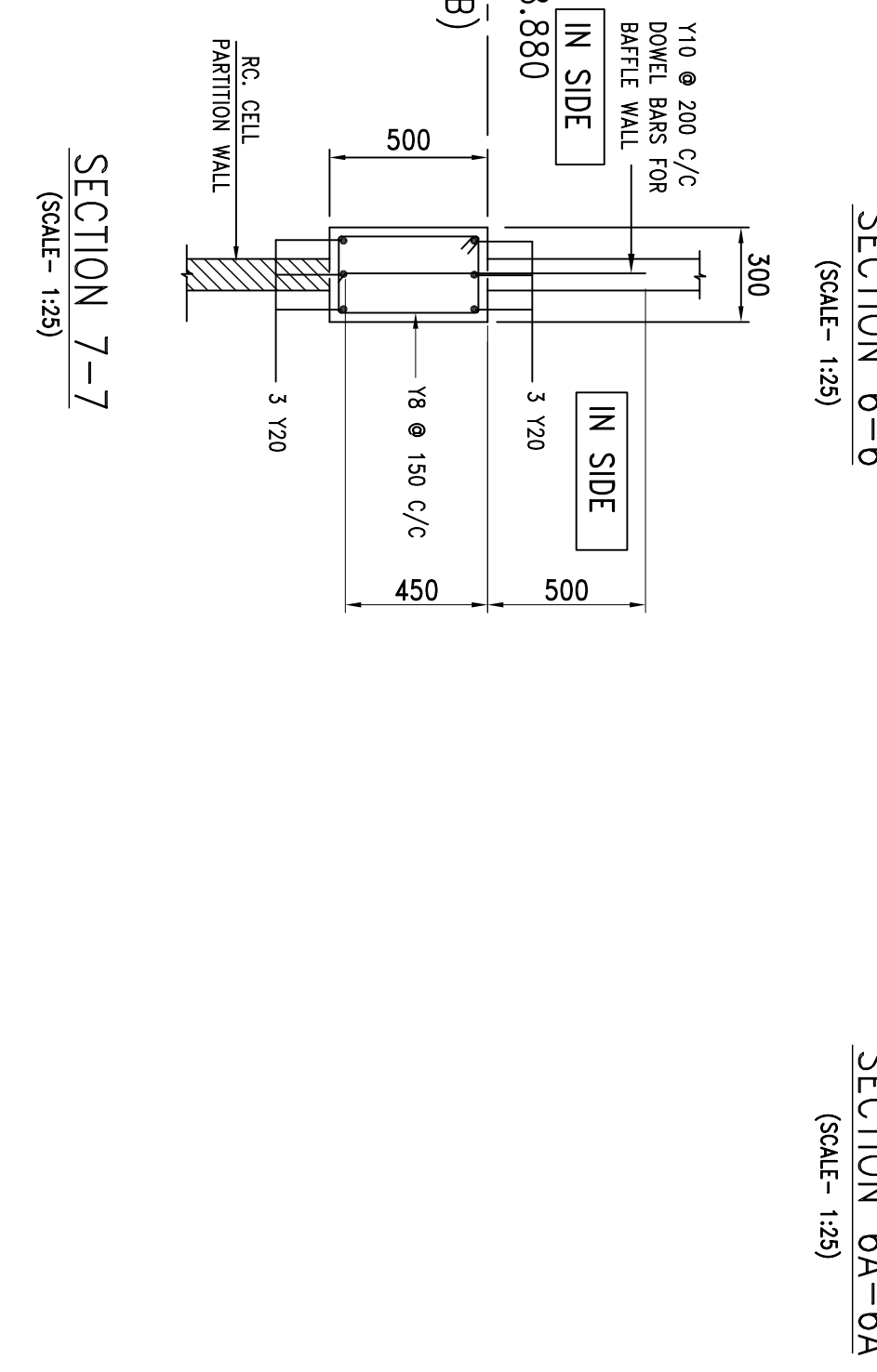
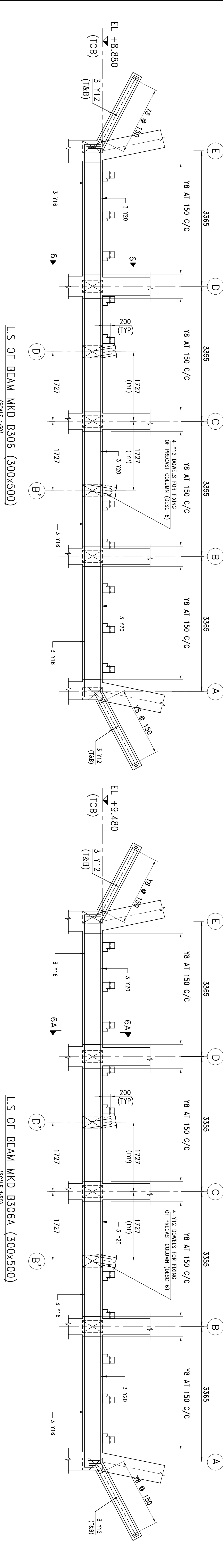
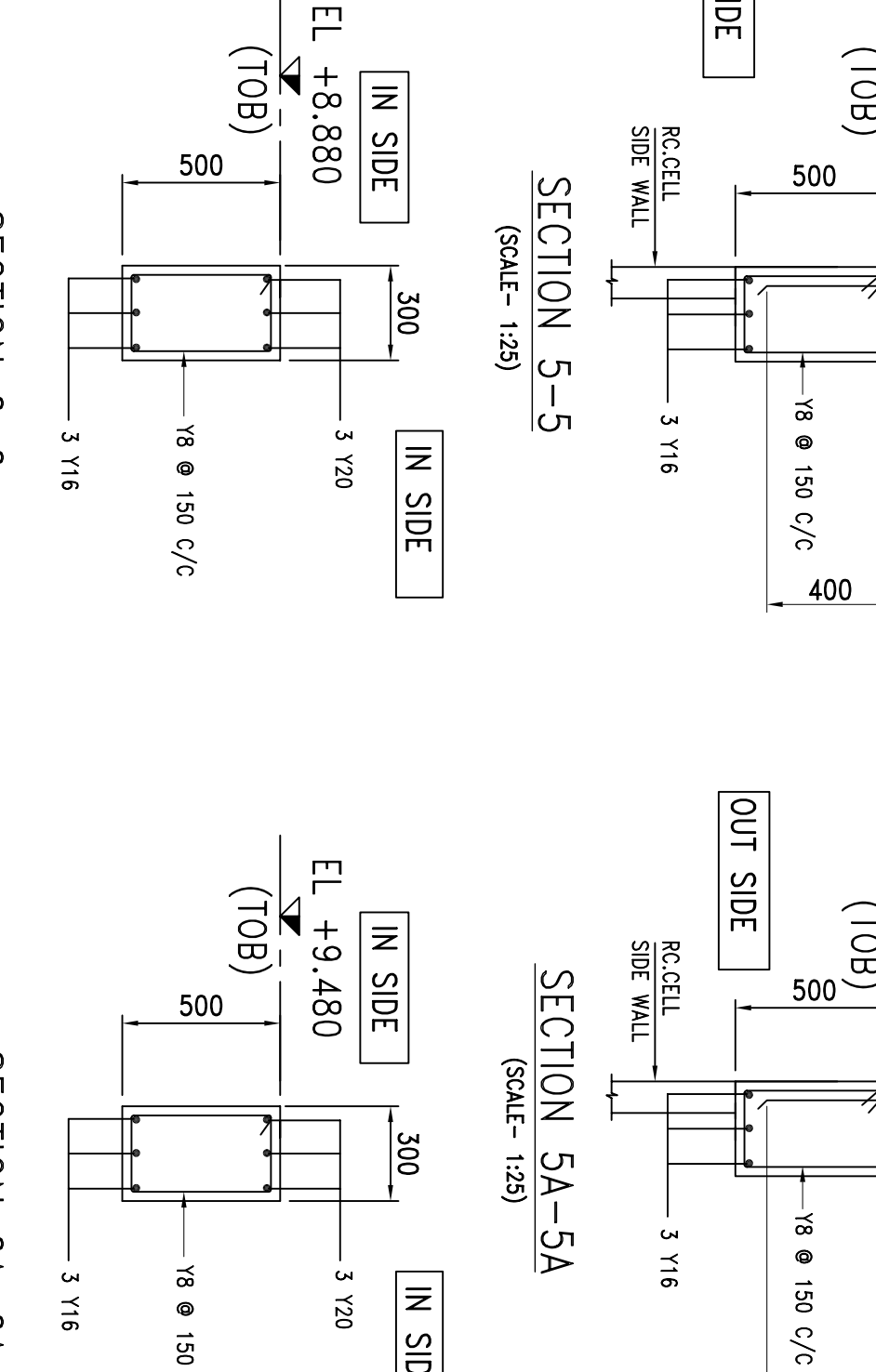
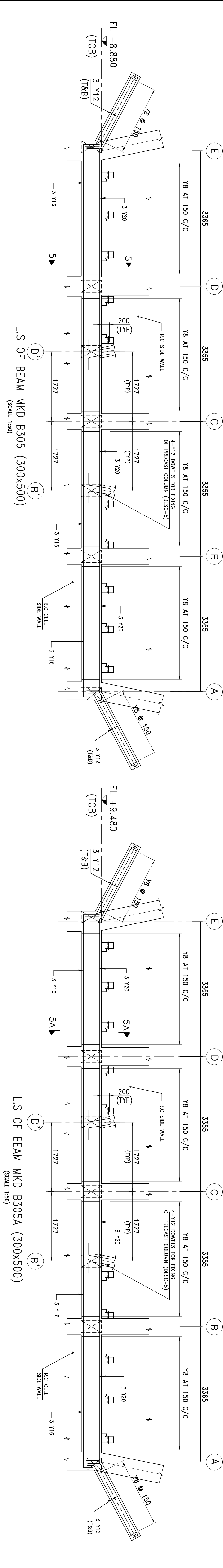
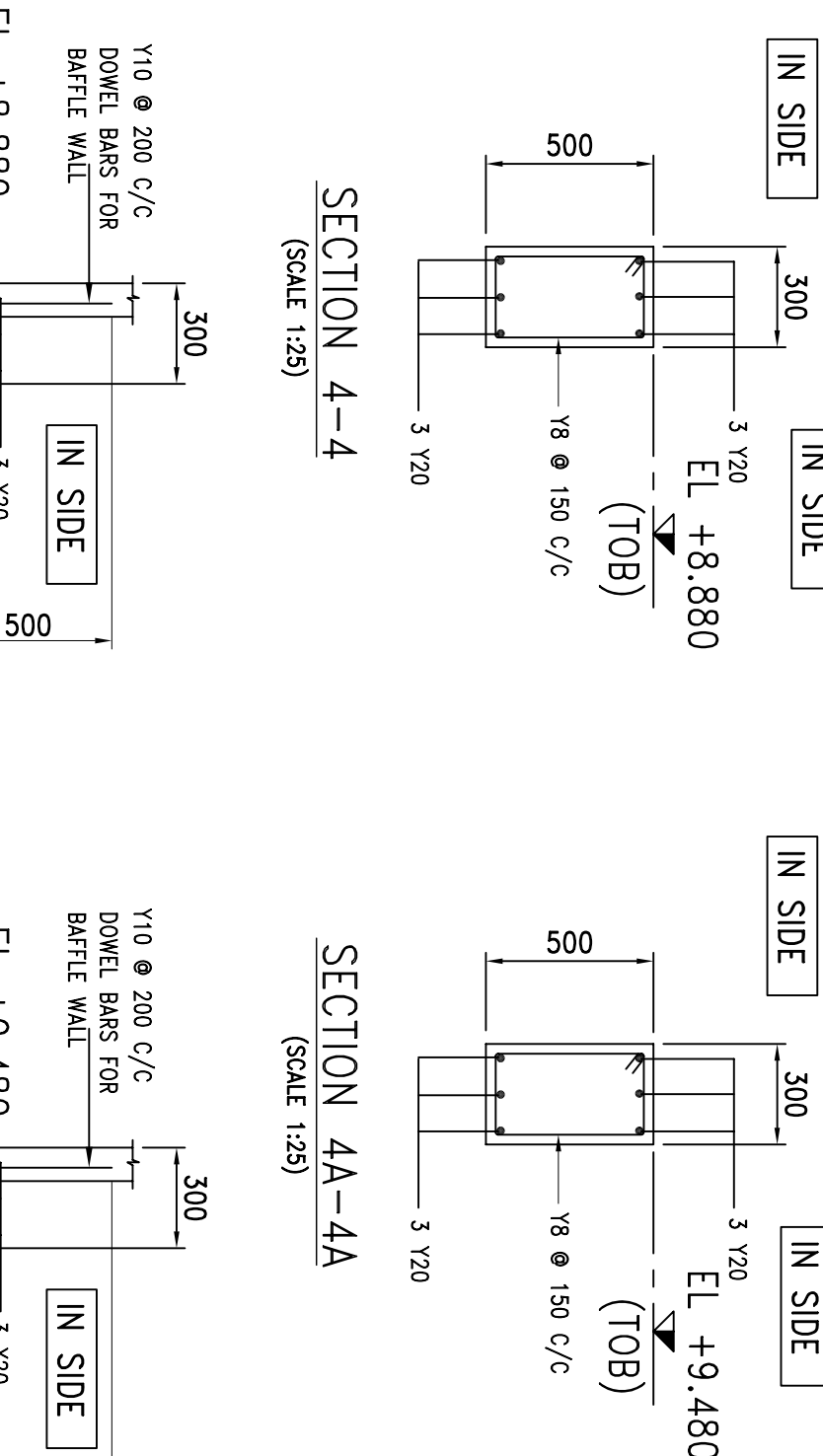
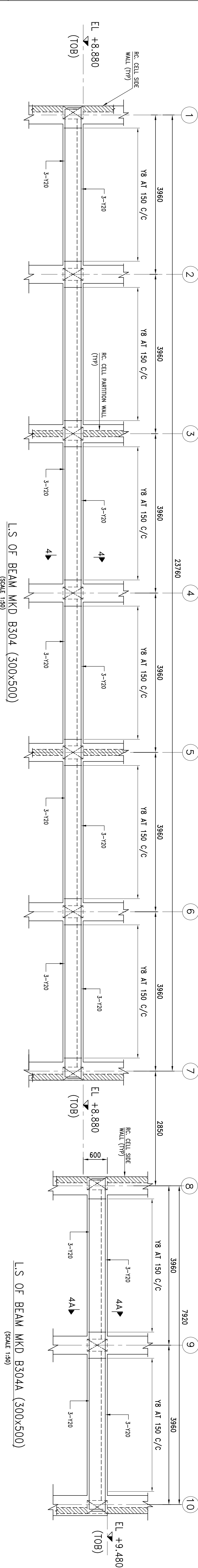
DATE: 28/11

APPROVED BY: DSA

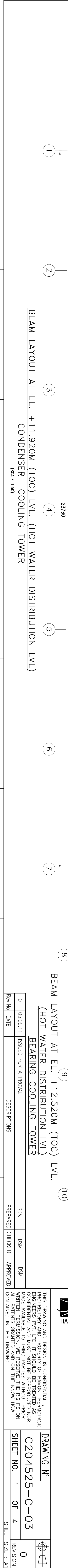
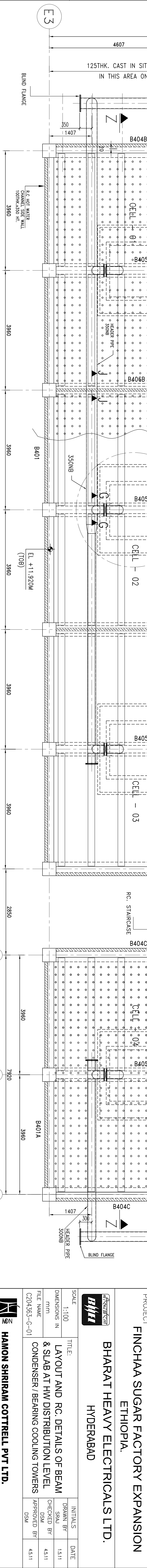
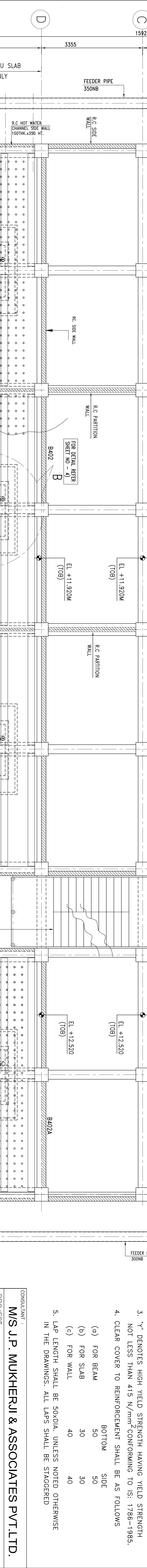
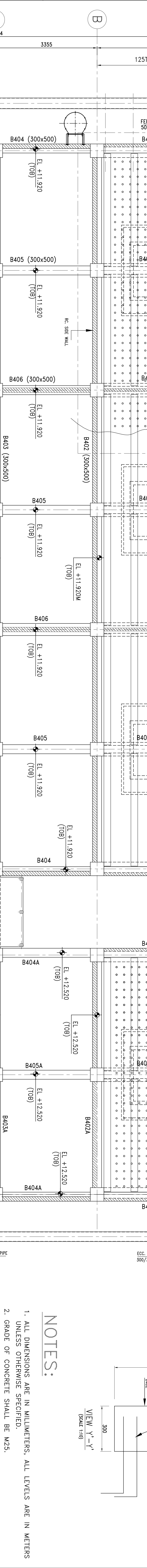
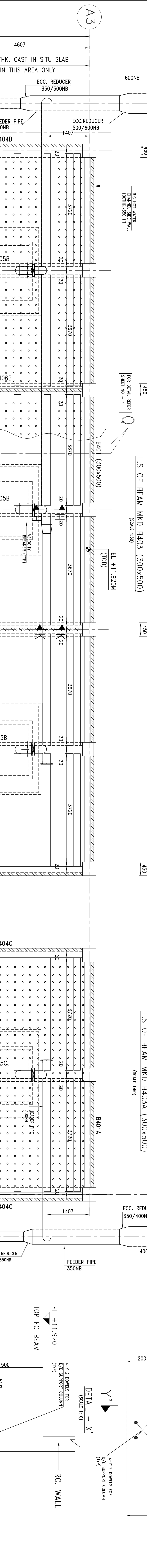
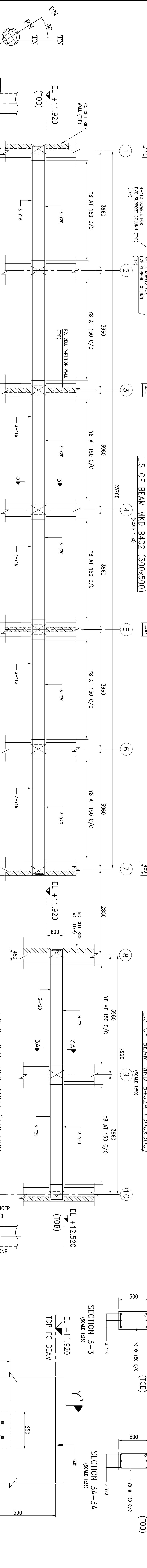
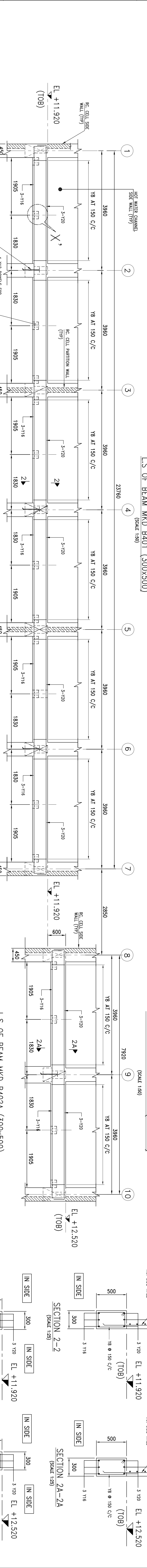
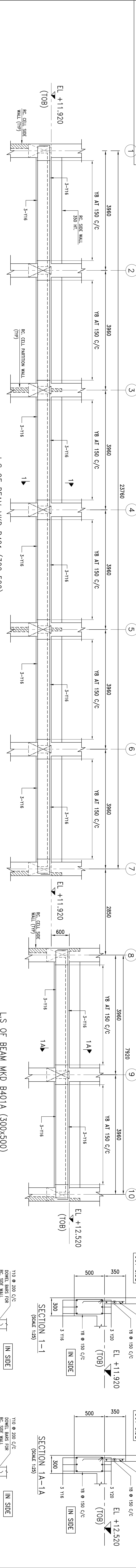
REVISION: 0

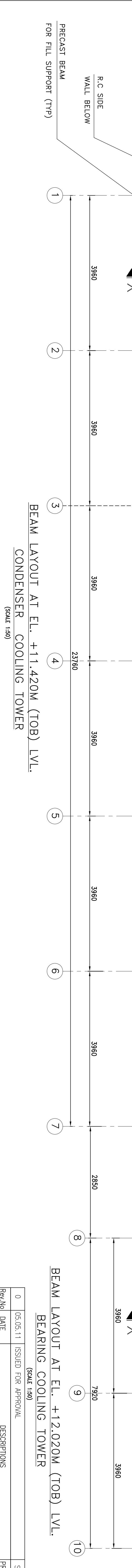
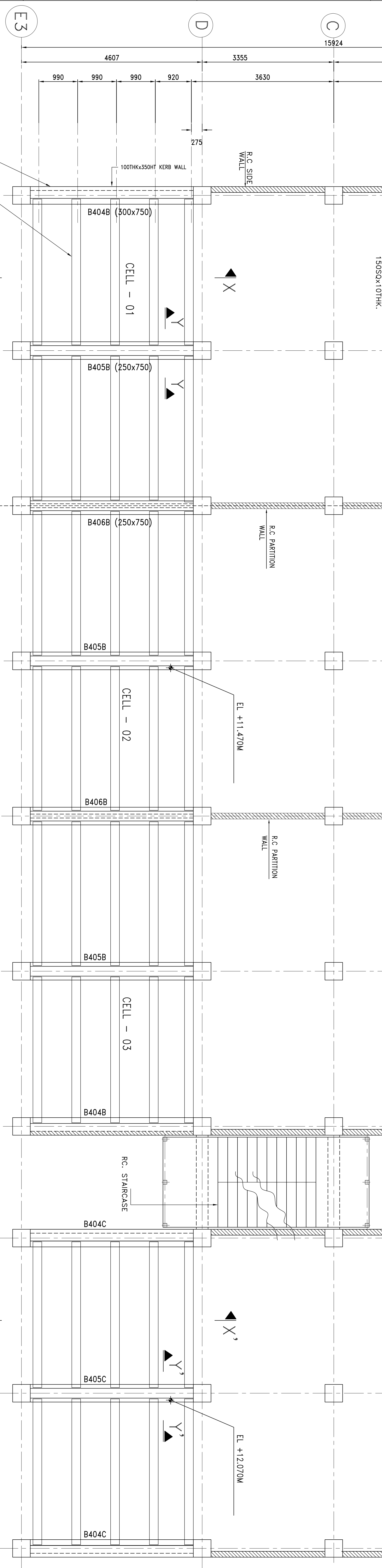
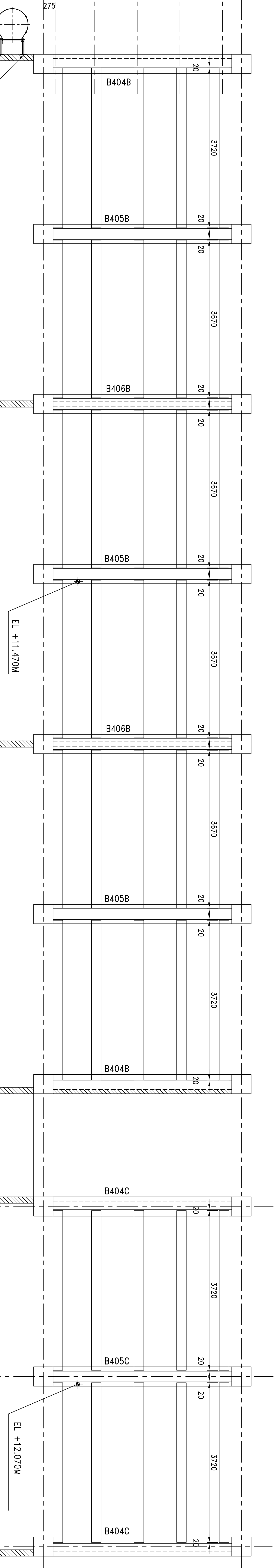
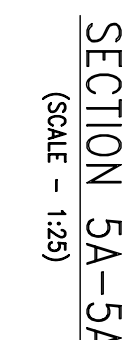
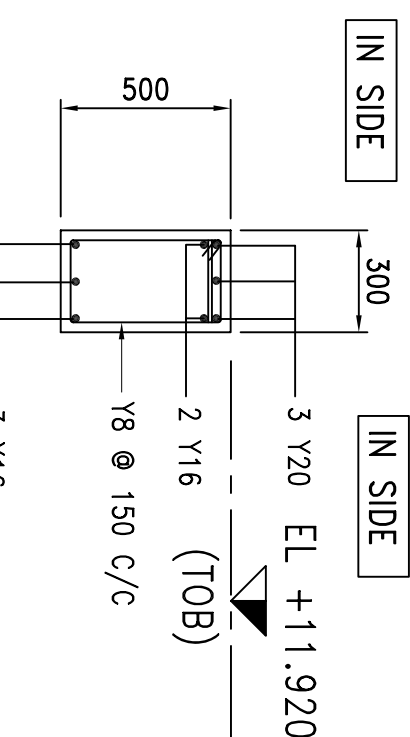
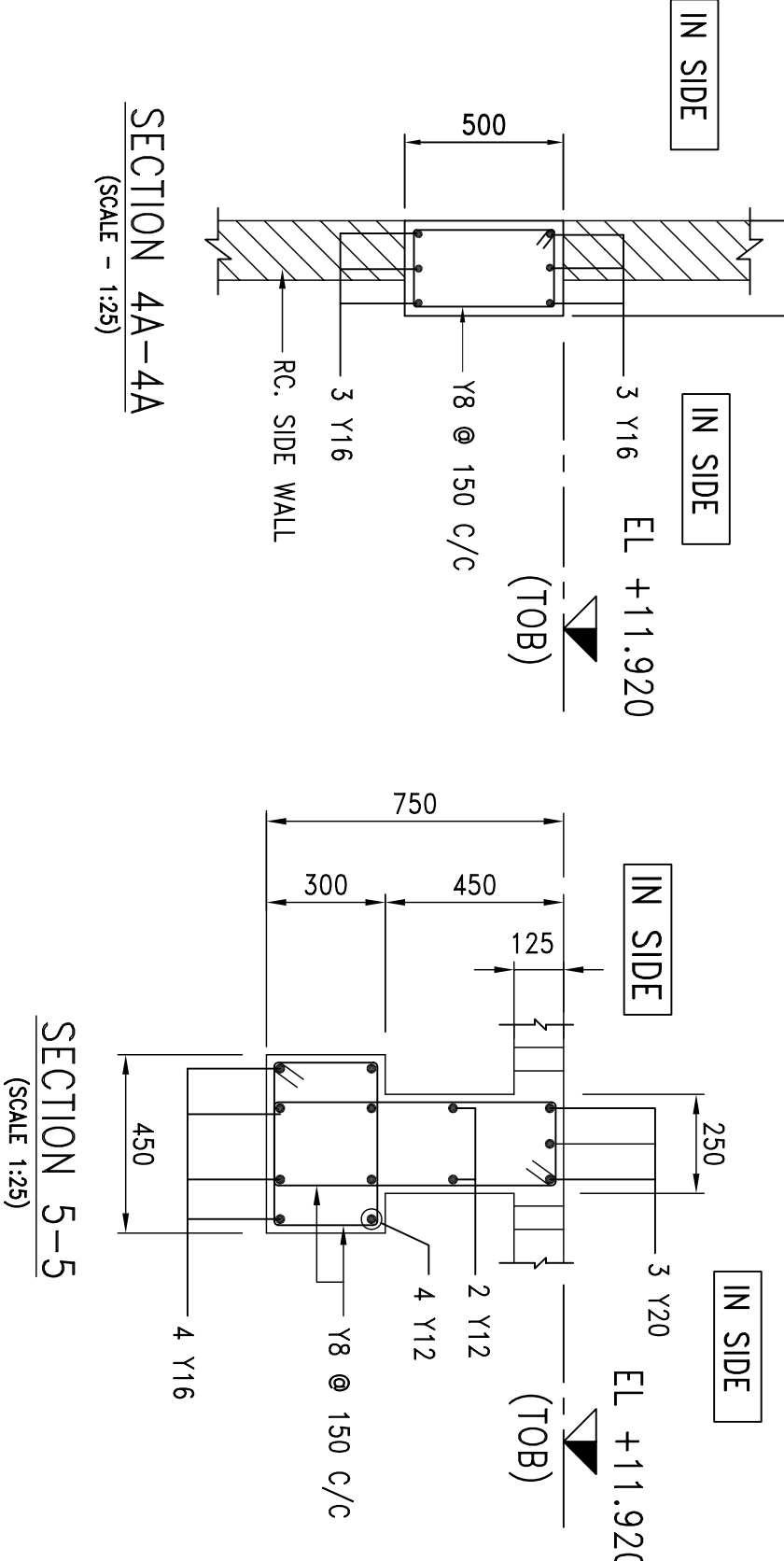
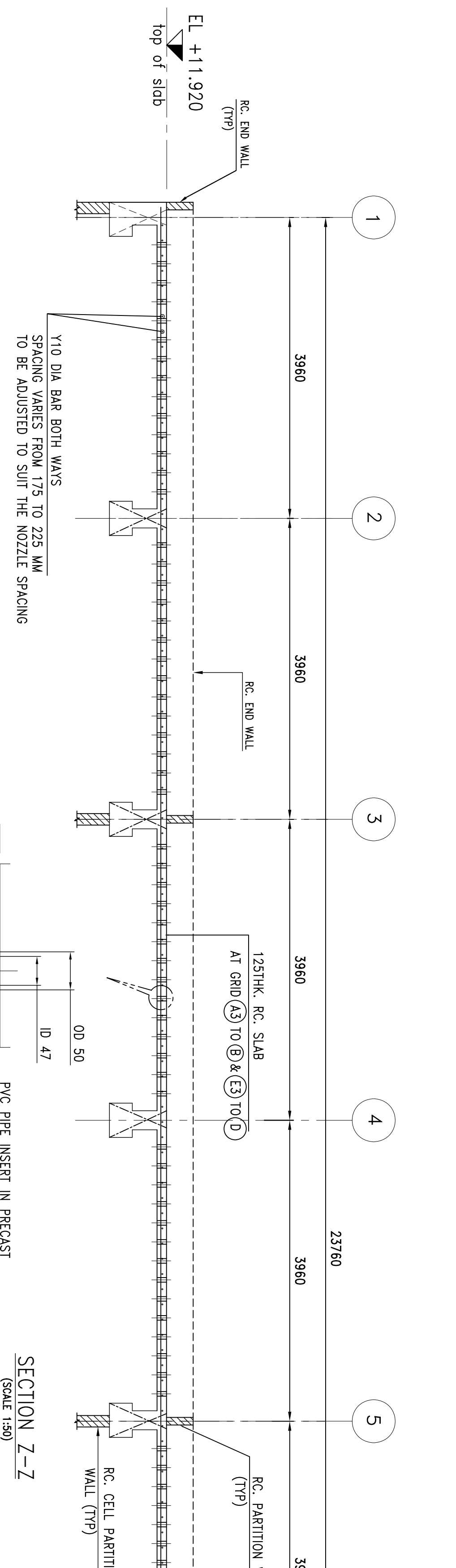
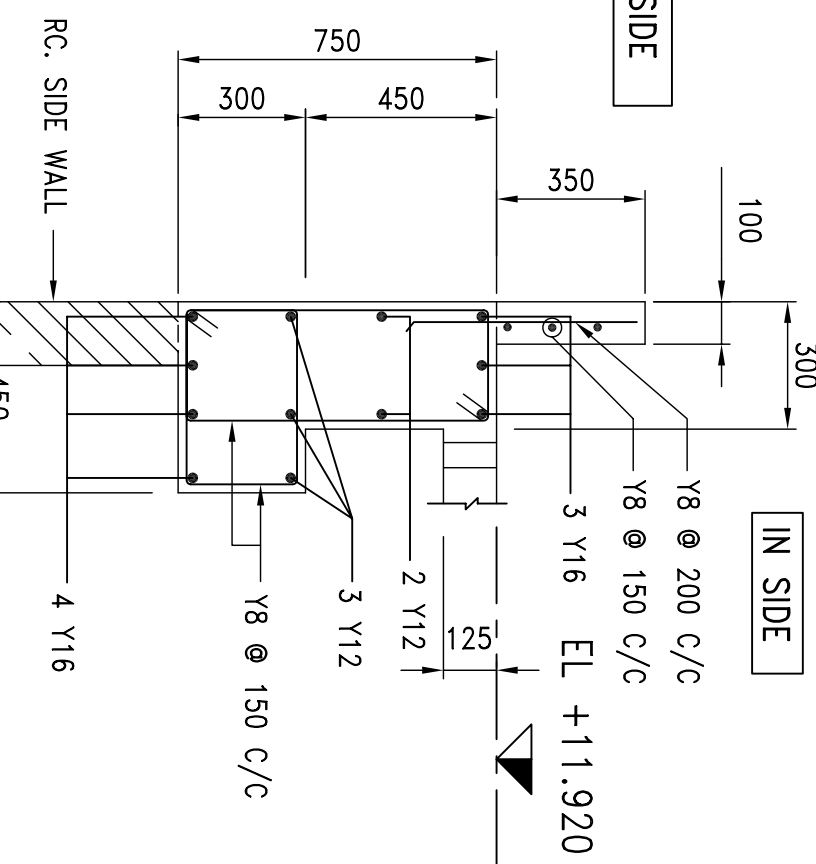
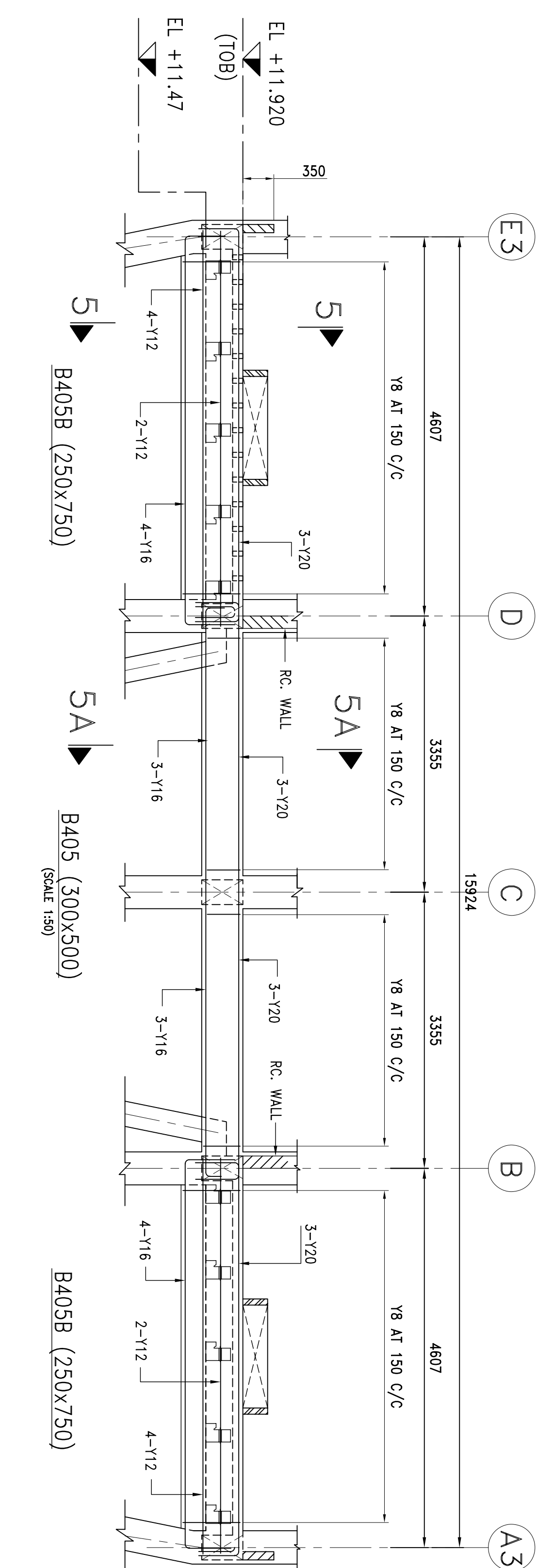
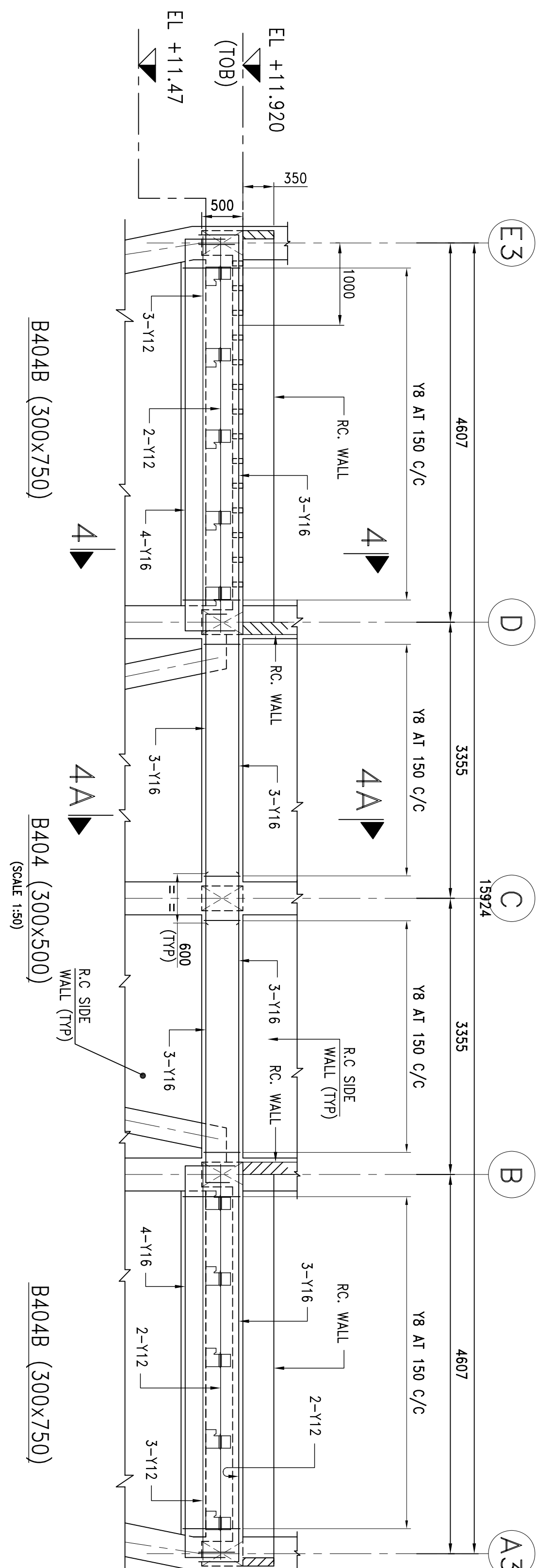
SHEET NO. 1 OF 2

SHEET SIZE: A1



CONSULTANT :		M/S J.P. MUKHERJI & ASSOCIATES PVT.LTD.	
PROJECT :		FINCHAA SUGAR FACTORY EXPANSION ETHIOPIA.	
DRAWING :		BHARAT HEAVY ELECTRICALS LTD. HYDERABAD	
SCALE :	TITLE :	INITIALS :	DATE :
1:100	LAYOUT AND R.C. DETAILS OF INTERMEDIALTE LEVEL -II BEAMS FOR CONDENSER / BEARING COOLING TOWERS	DRAWN BY SMA	26.11
DIMENSIONS IN mm	CHECKED BY DSN	26.11	
FILE NAME C20.563-0-01	APPROVED BY DSN	26.11	
 HAMON SHIRRAM COTTRELL PVT LTD.			
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DRAWING N° C20.4525-C-02		SHEET NO. 2 OF 2	
REVISION 0		SHEET SIZE : A1	
			





AM	LAYOUT	AI	EL.	+12:020M	(10B)	VL.
BEARING COOLING TOWER						
(SCALE 1:50)						
0	05.05.11	ISSUED FOR APPROVAL			DESIGNATIONS	
Rev No	DATE					
PR						

	DRAWING N°	C204525-C-03 0	REVISION	SHEET NO.	2 OF 4	APPROVED	CHECKED	DATE	DSM	DSM	9/6/2024
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DRAWING N°	
C204525-C-03	
SHEET NO. 2 OF 4	REVISION 0

IF IN DOUBT ASK, DO NOT SCALE DRAWING

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS, ALL LEVELS ARE IN METERS
2. FOR ALL OTHER NOTES REFER SH 1 OF 4 IN THIS DRG.

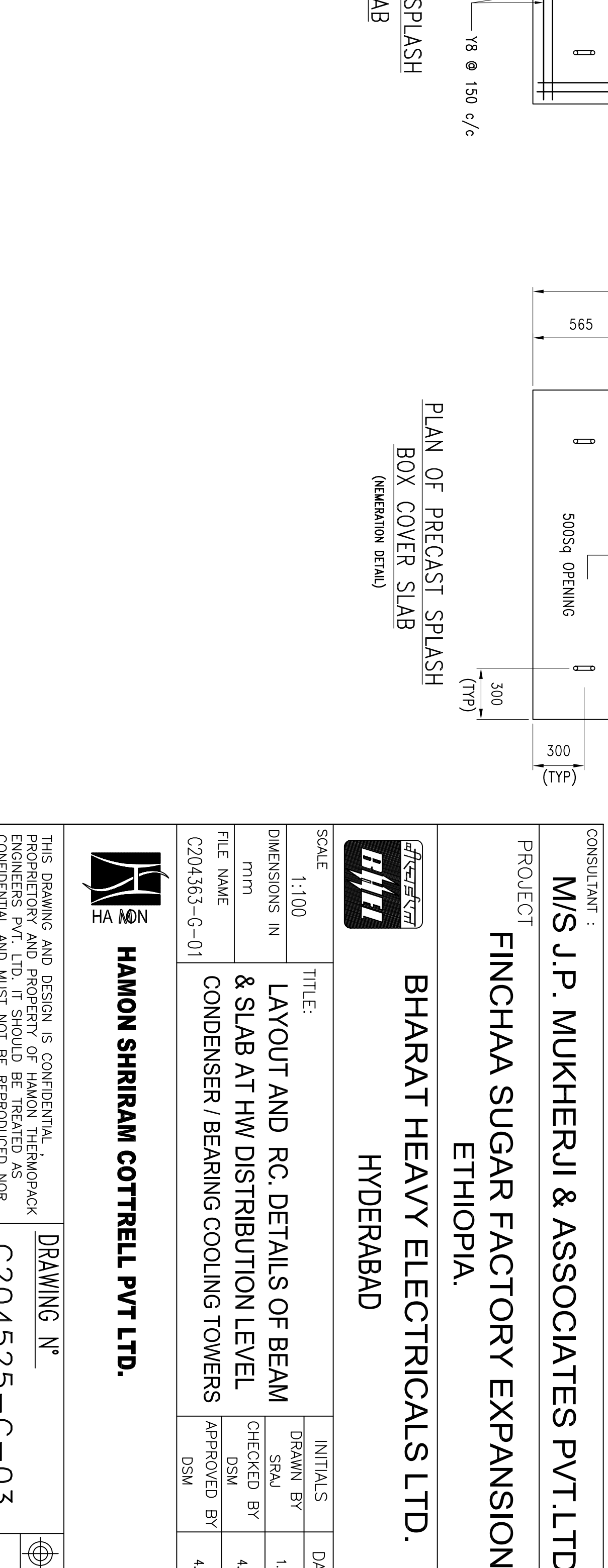
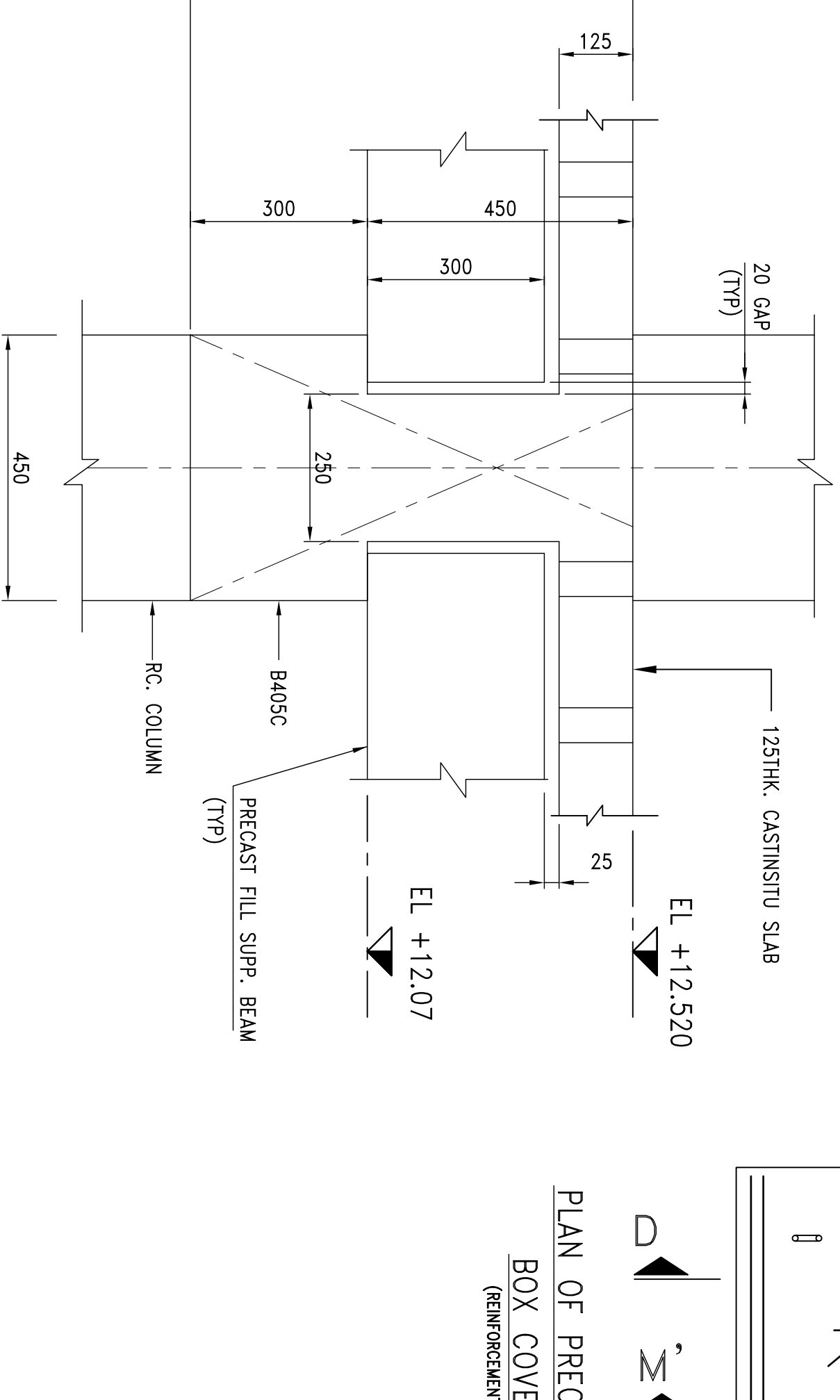
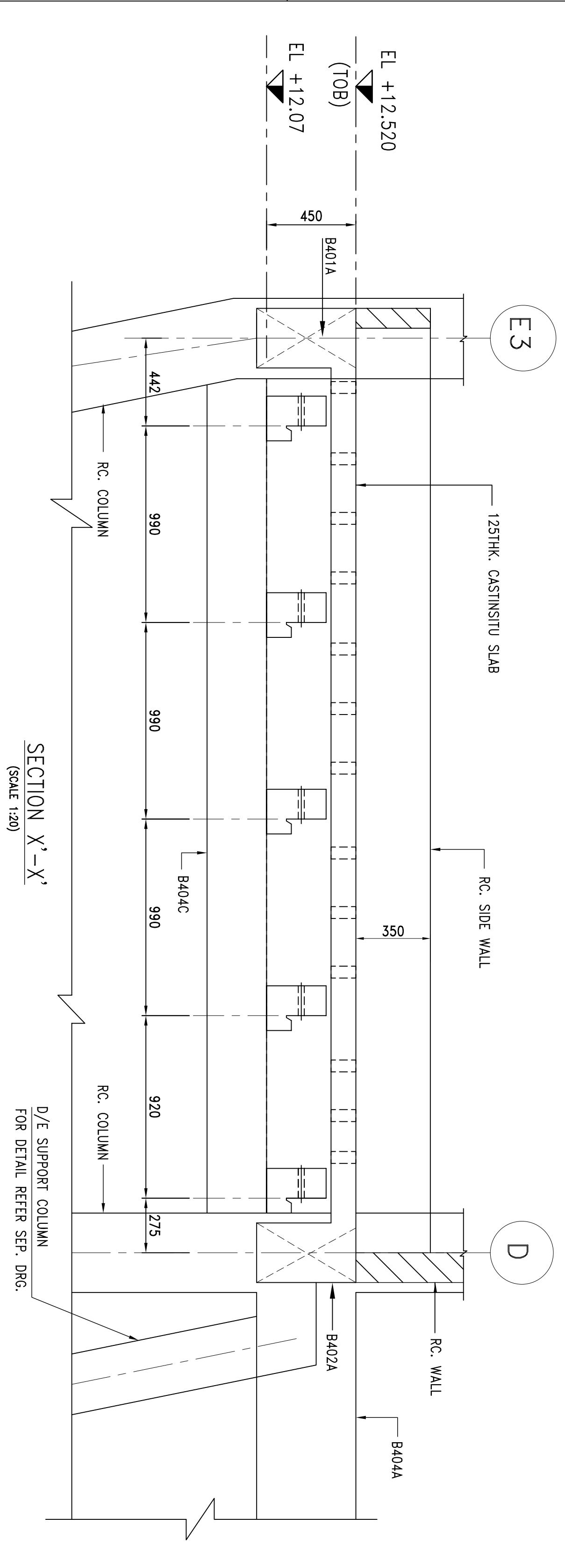
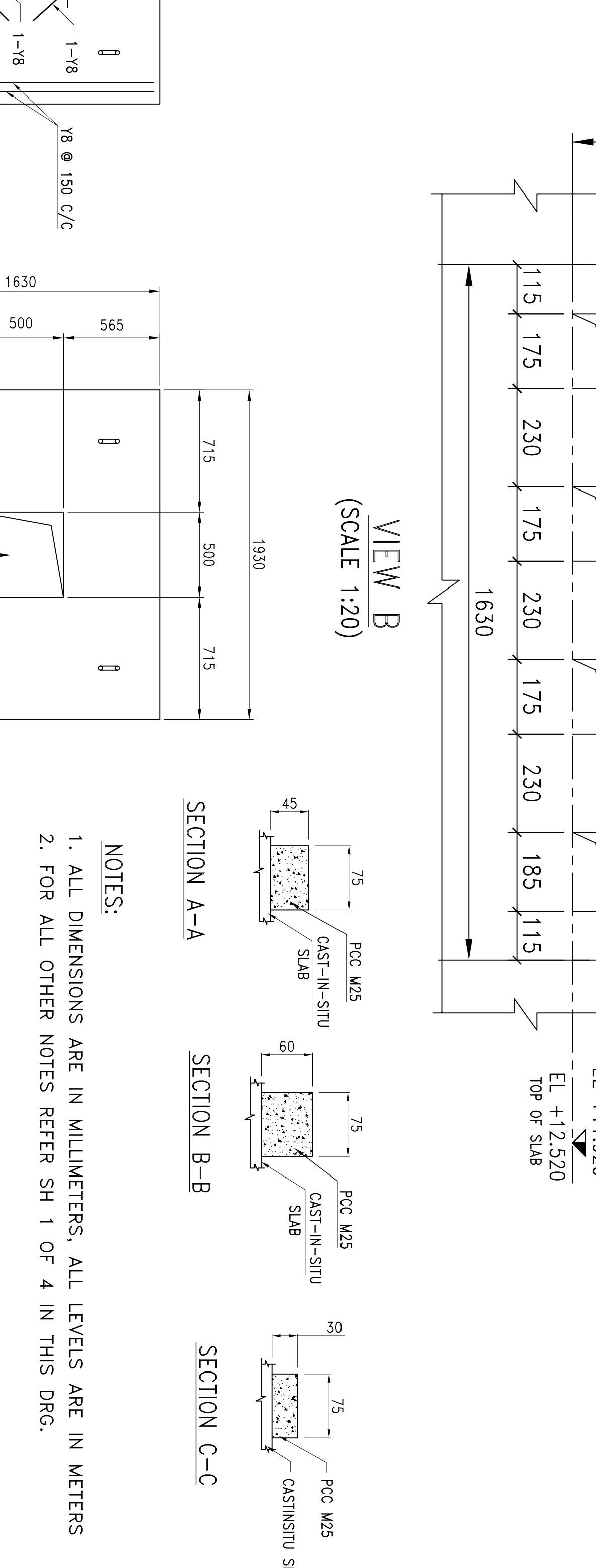
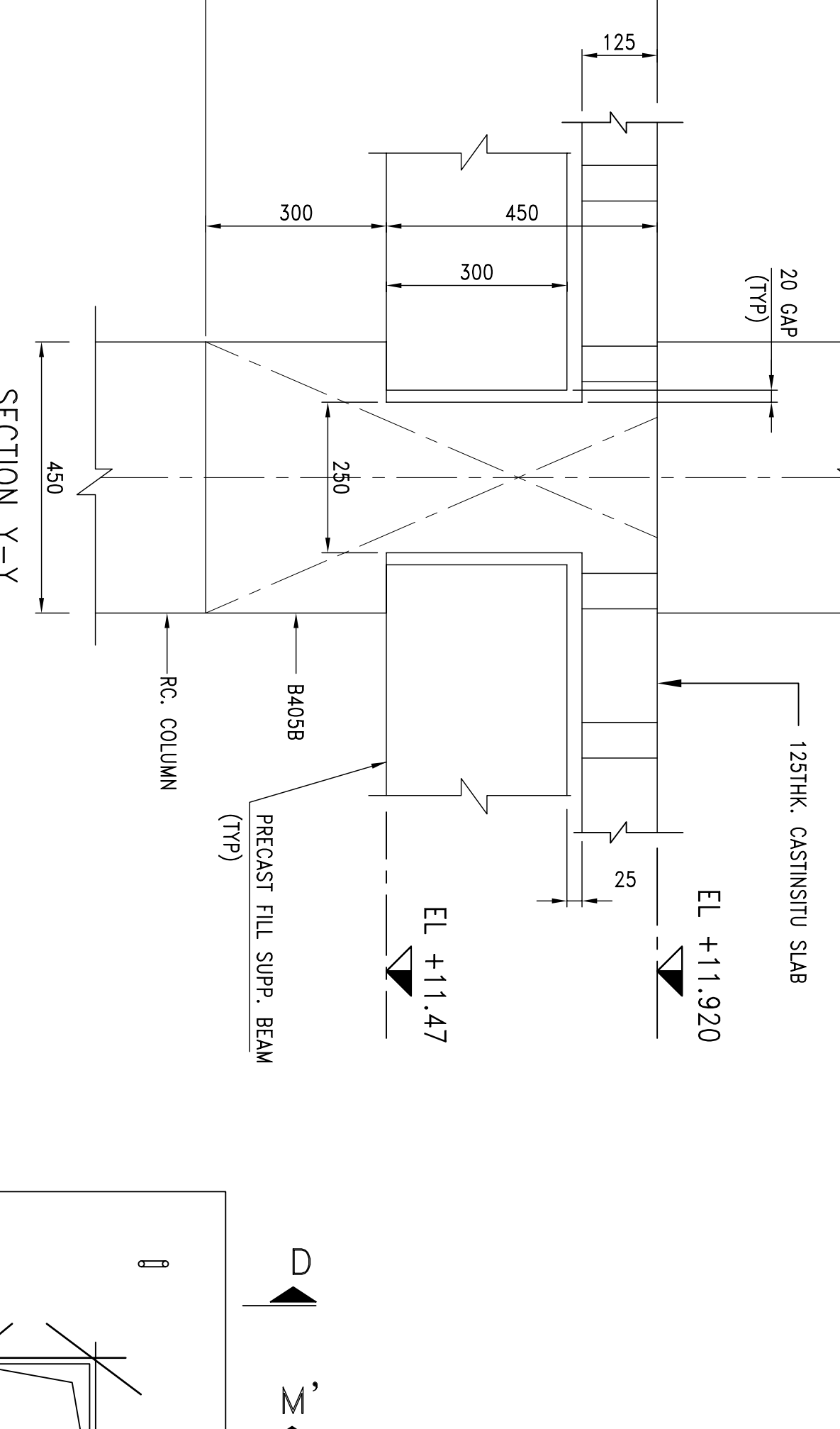
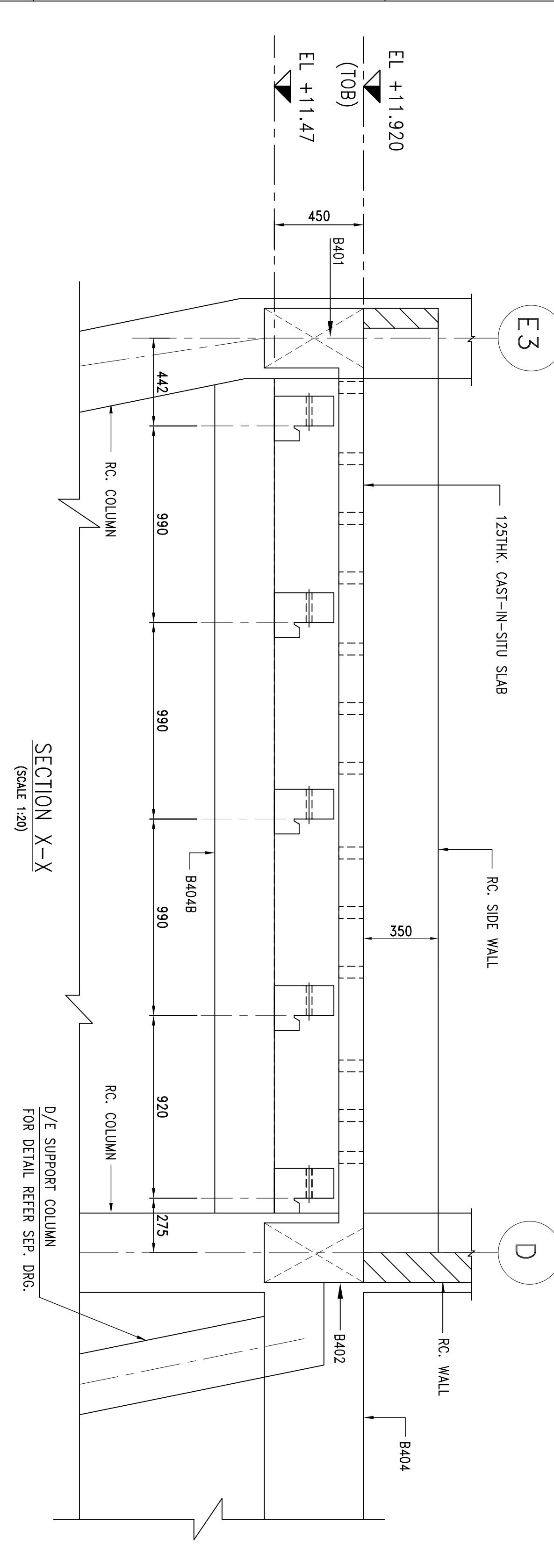
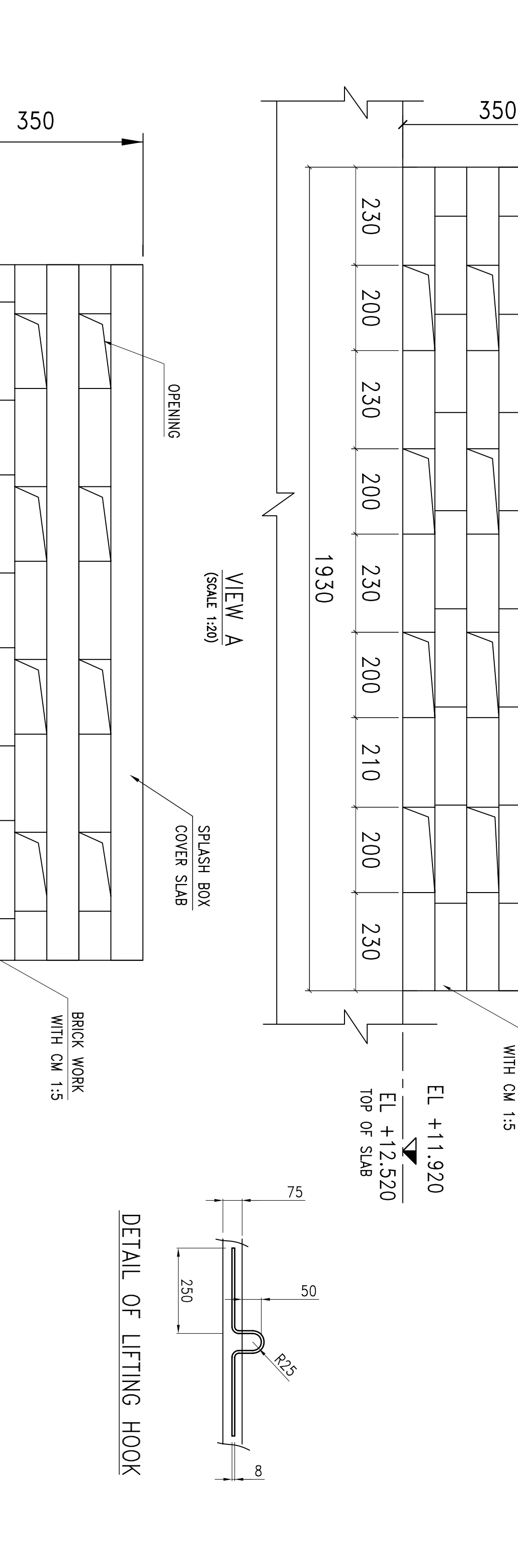
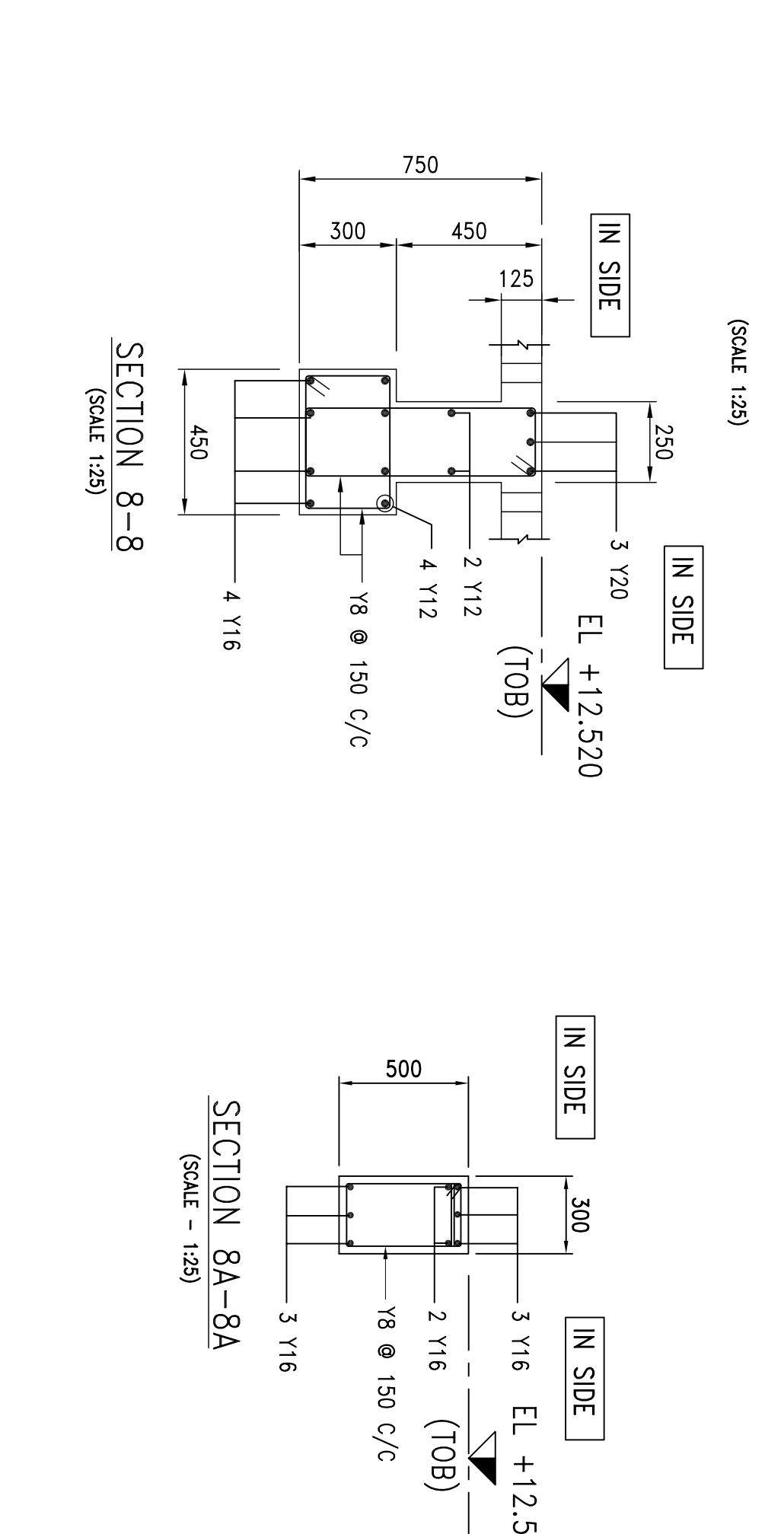
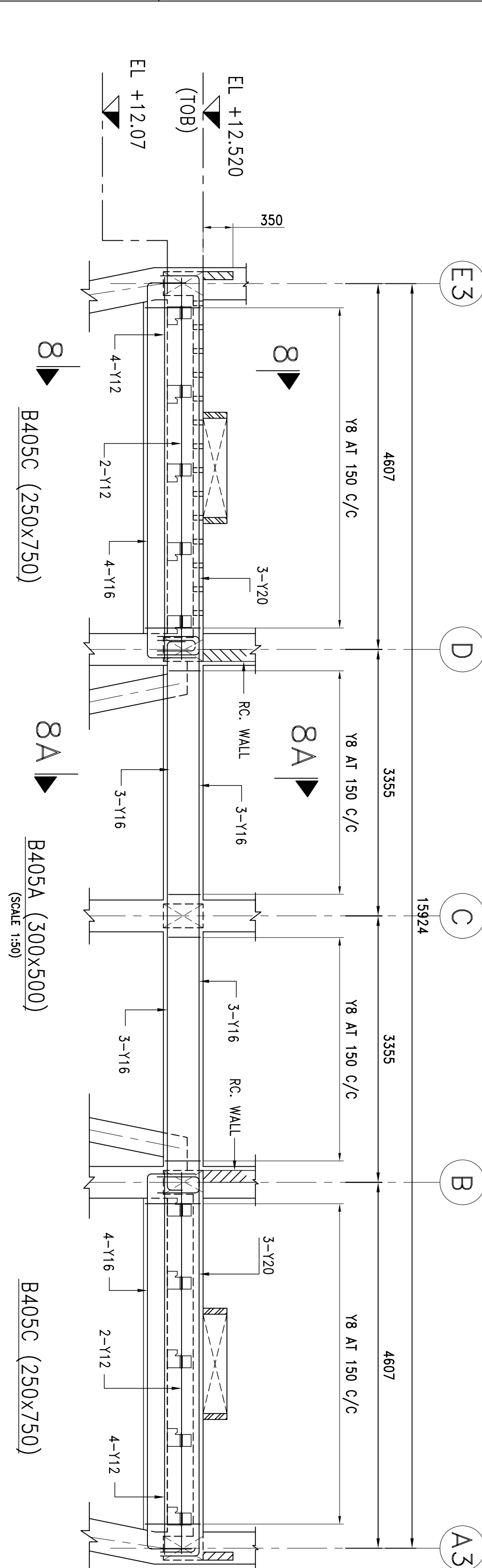
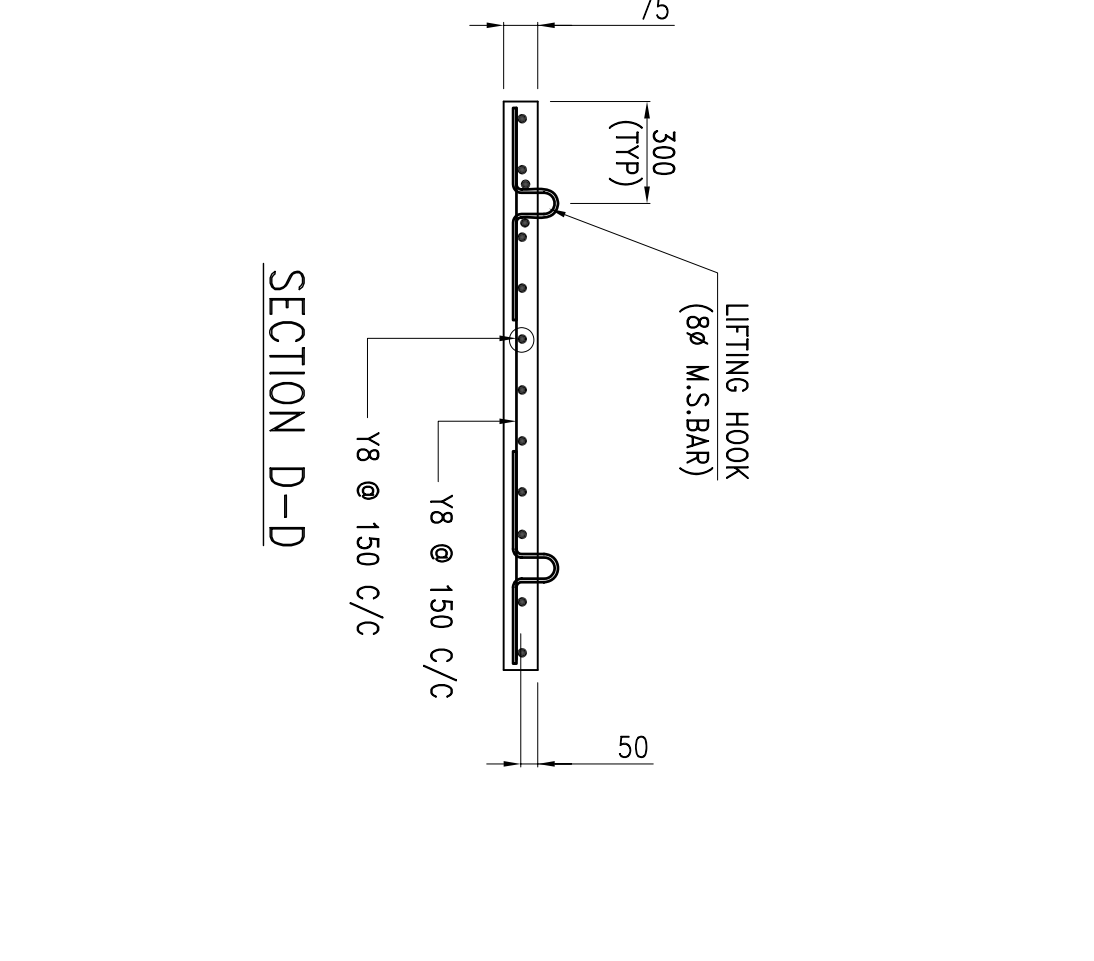
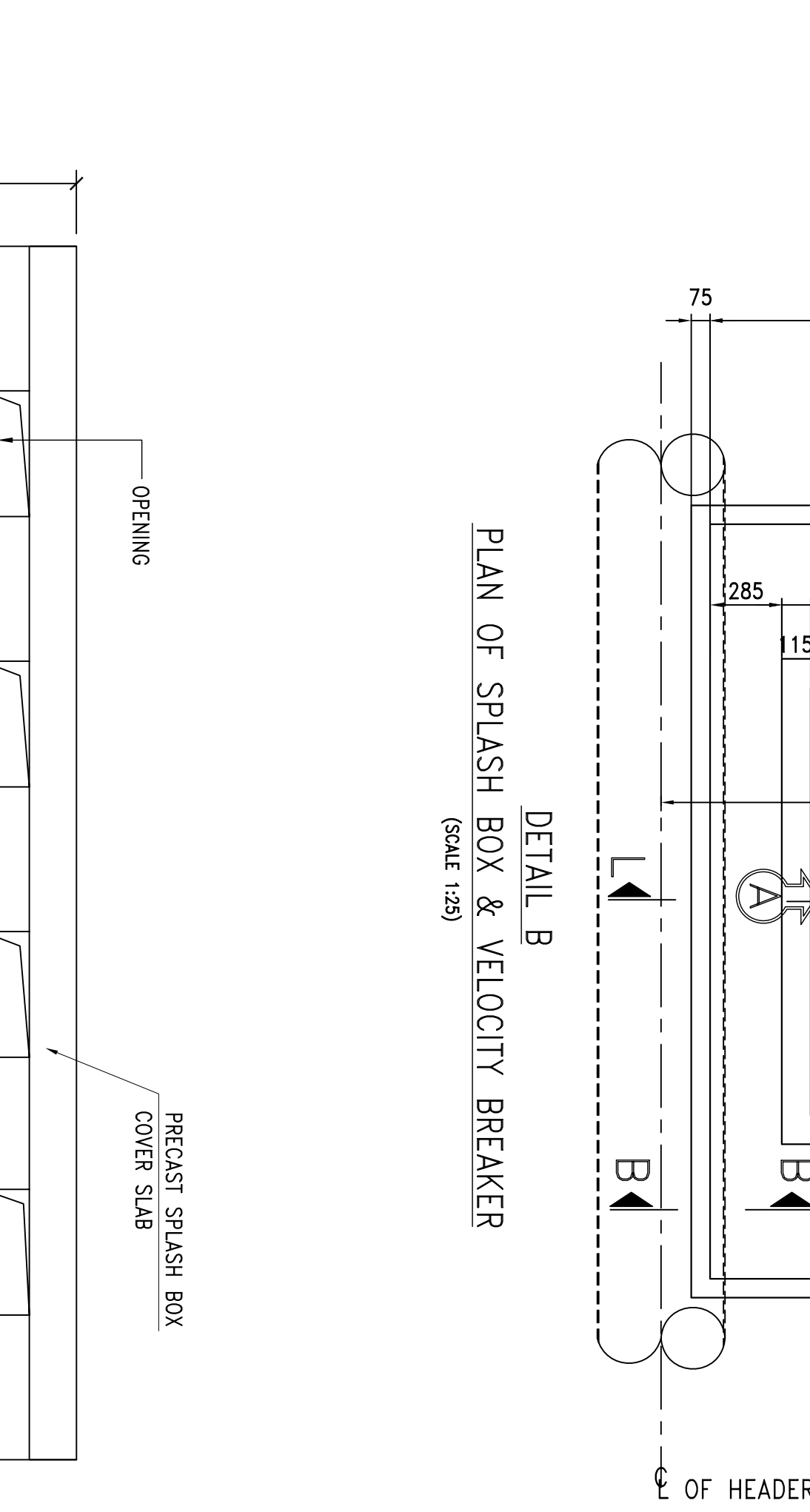
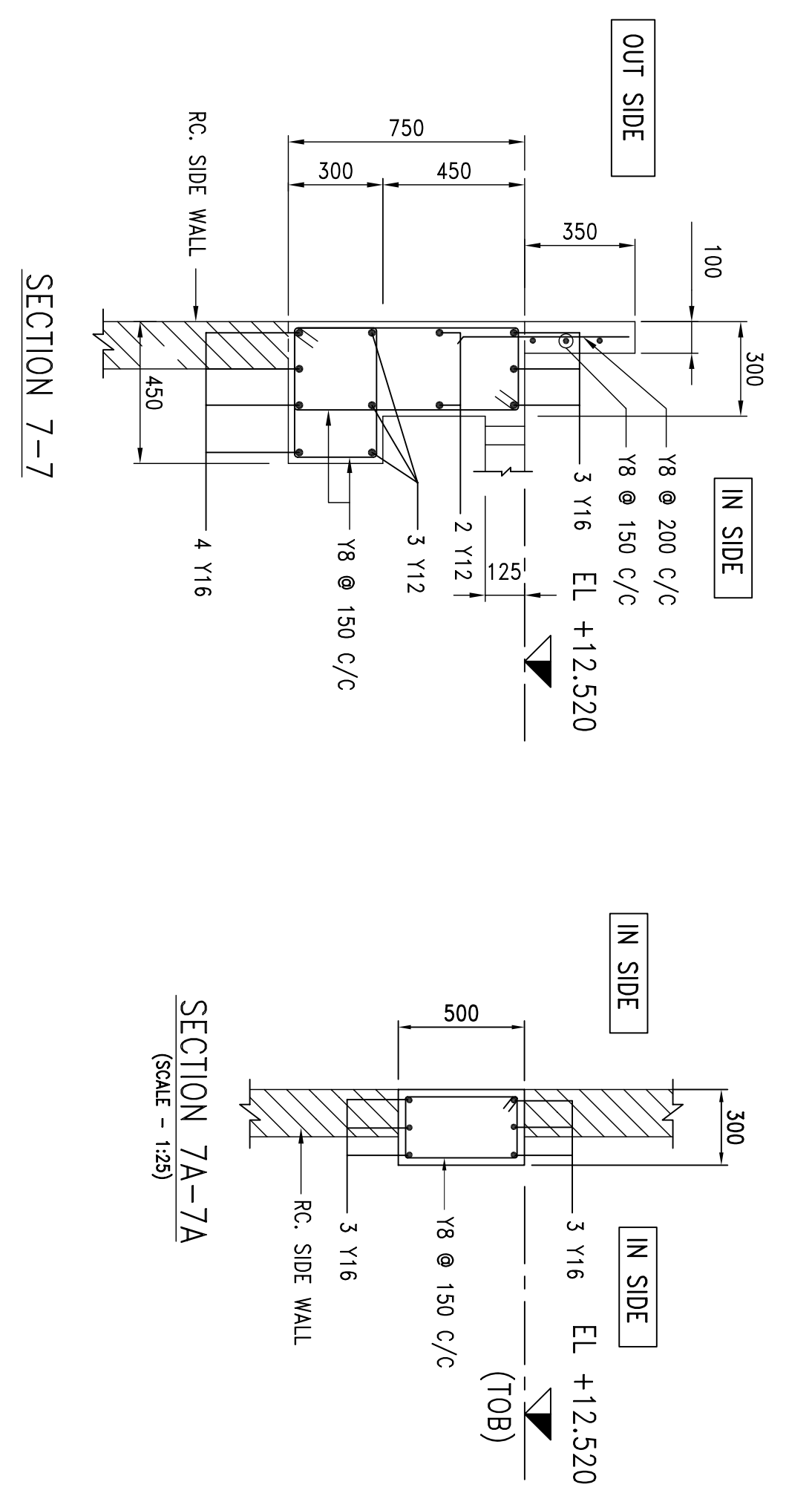
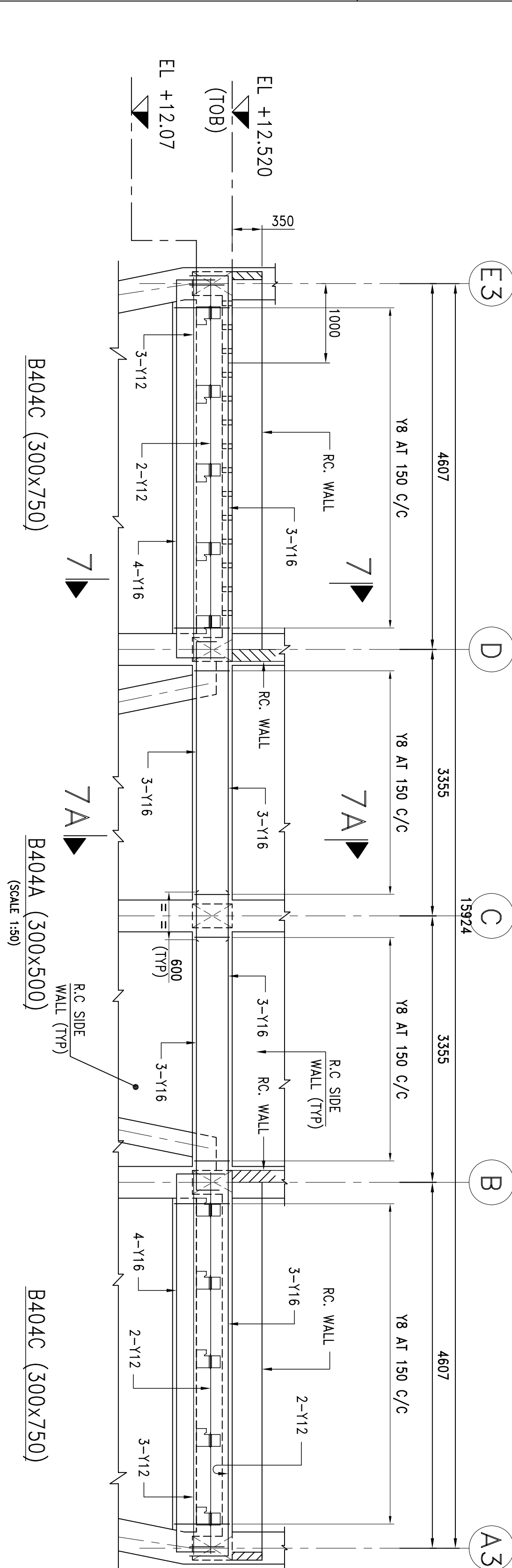
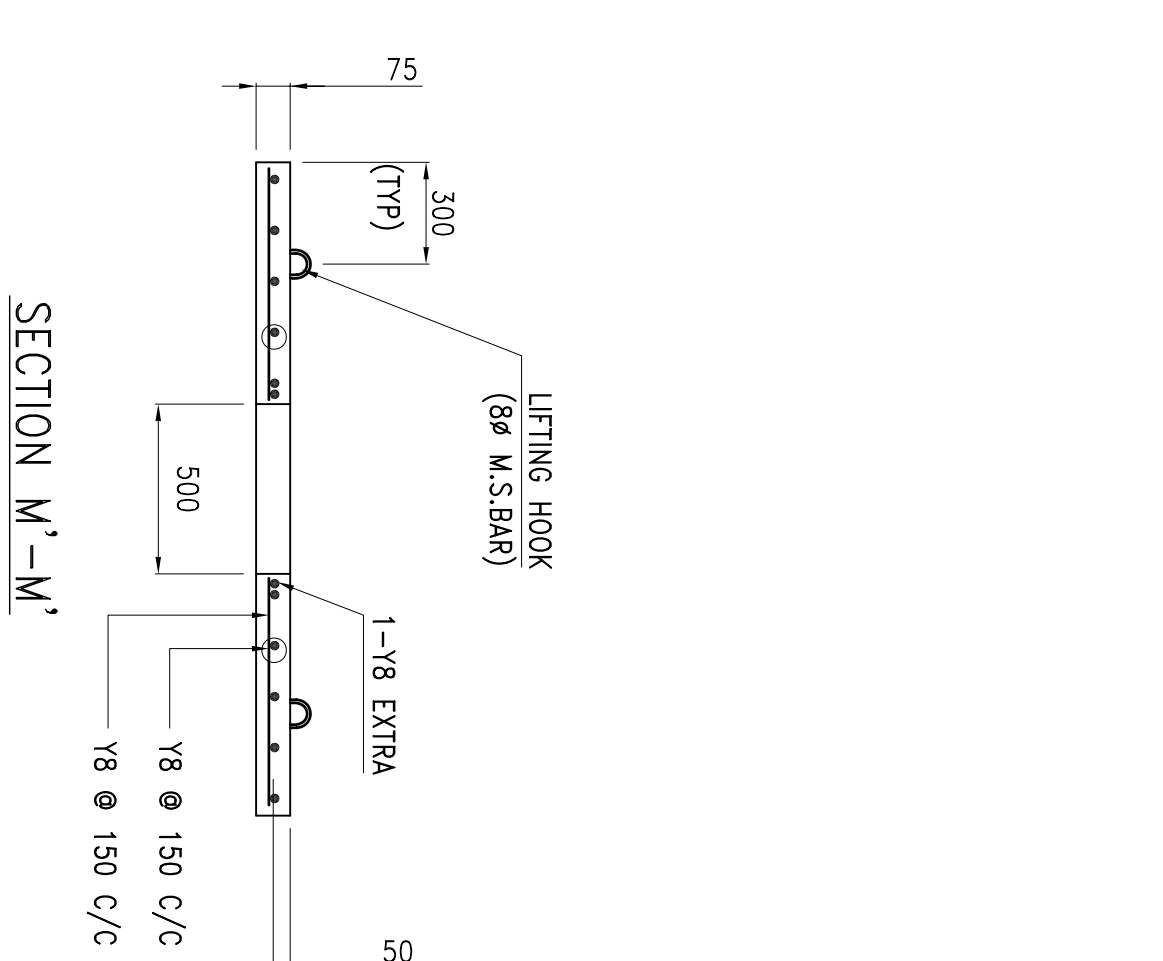
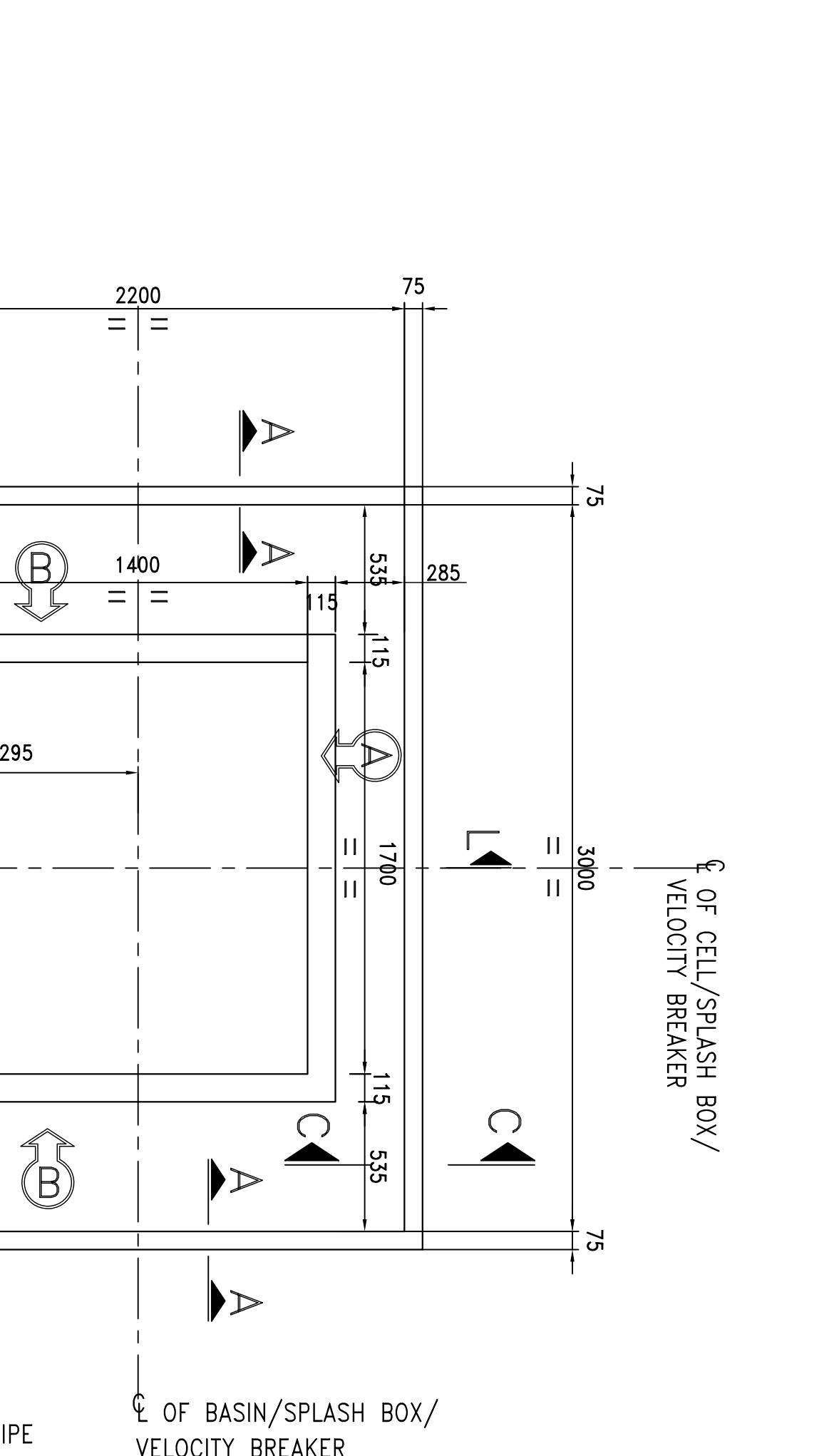
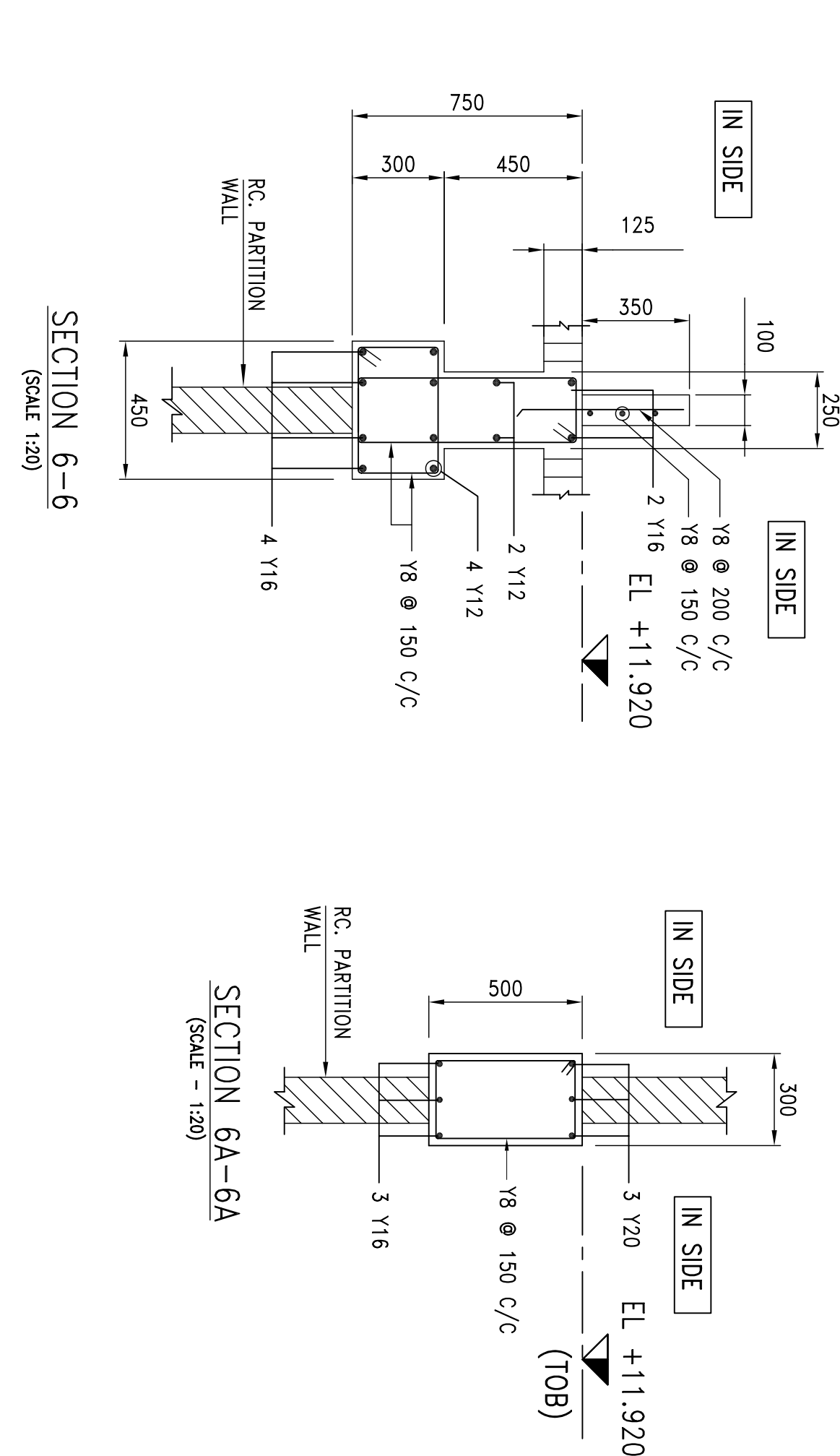
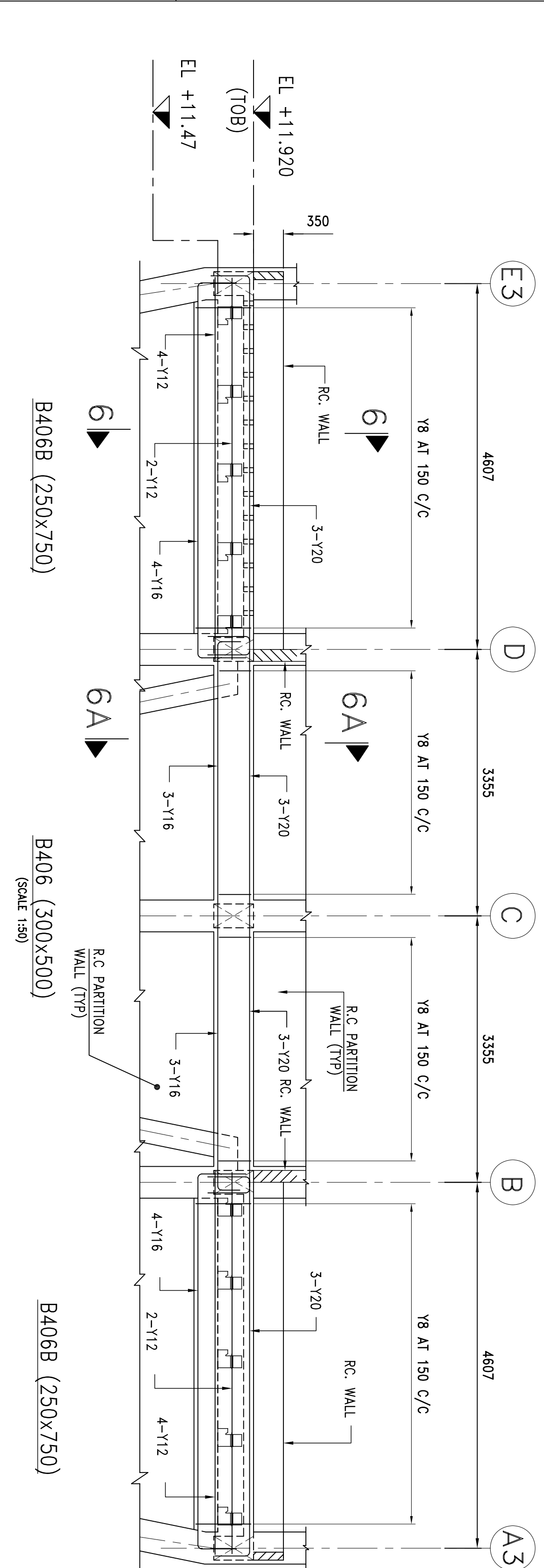
CONSULTANT :
M/S. J.P. MUKHERJI & ASSOCIATES PVT.LTD.
PROJECT
FINCHAA SUGAR FACTORY EXPANSION
ETHIOPIA.
BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

Scale:	1:100	TITLE: LAYOUT AND RC. DETAILS OF BEAM & SLAB AT HW DISTRIBUTION LEVEL CONDENSER / BEARING COOLING TOWER
DIMENSIONS IN	mm	
FILE NAME	C204363-G-01	

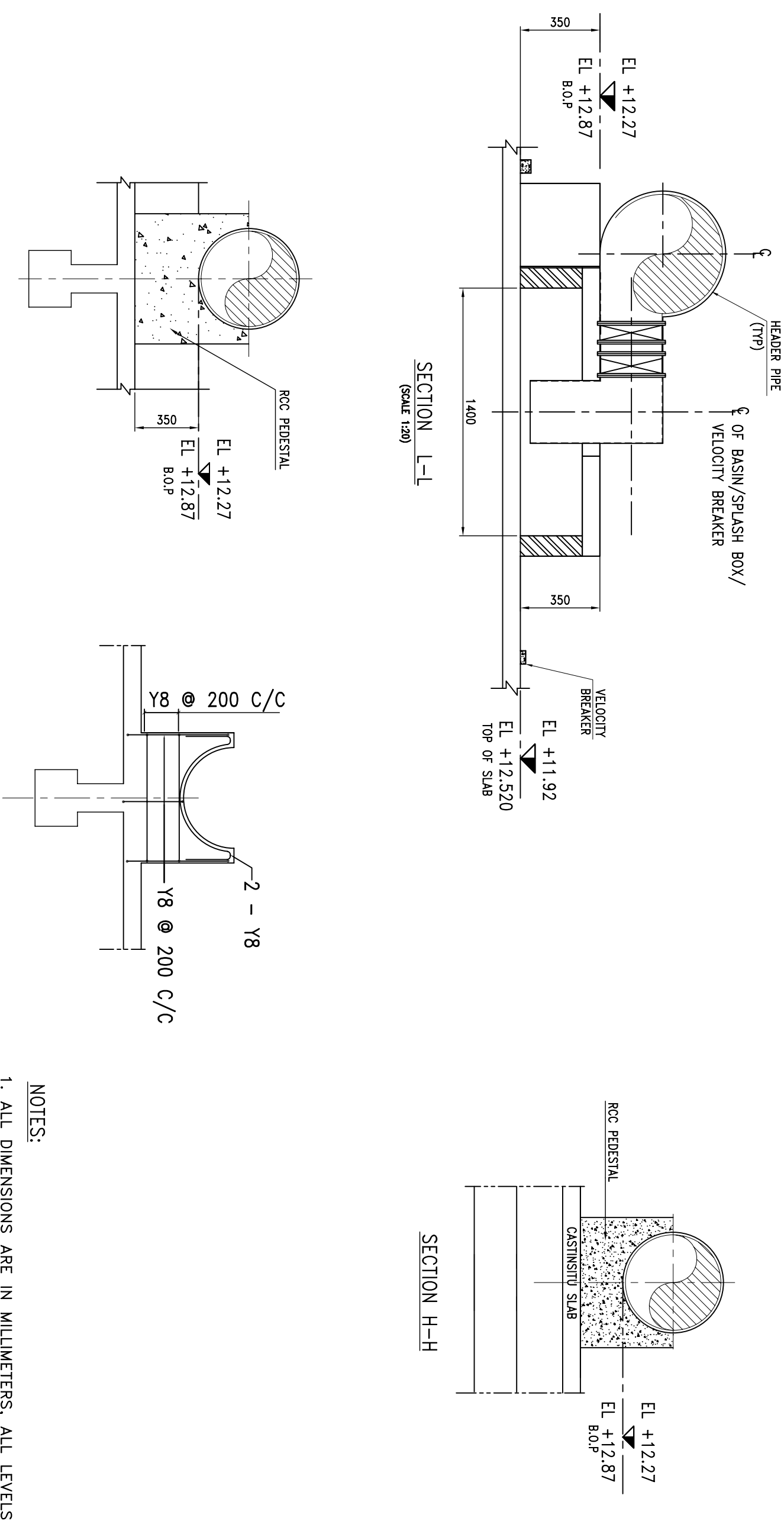
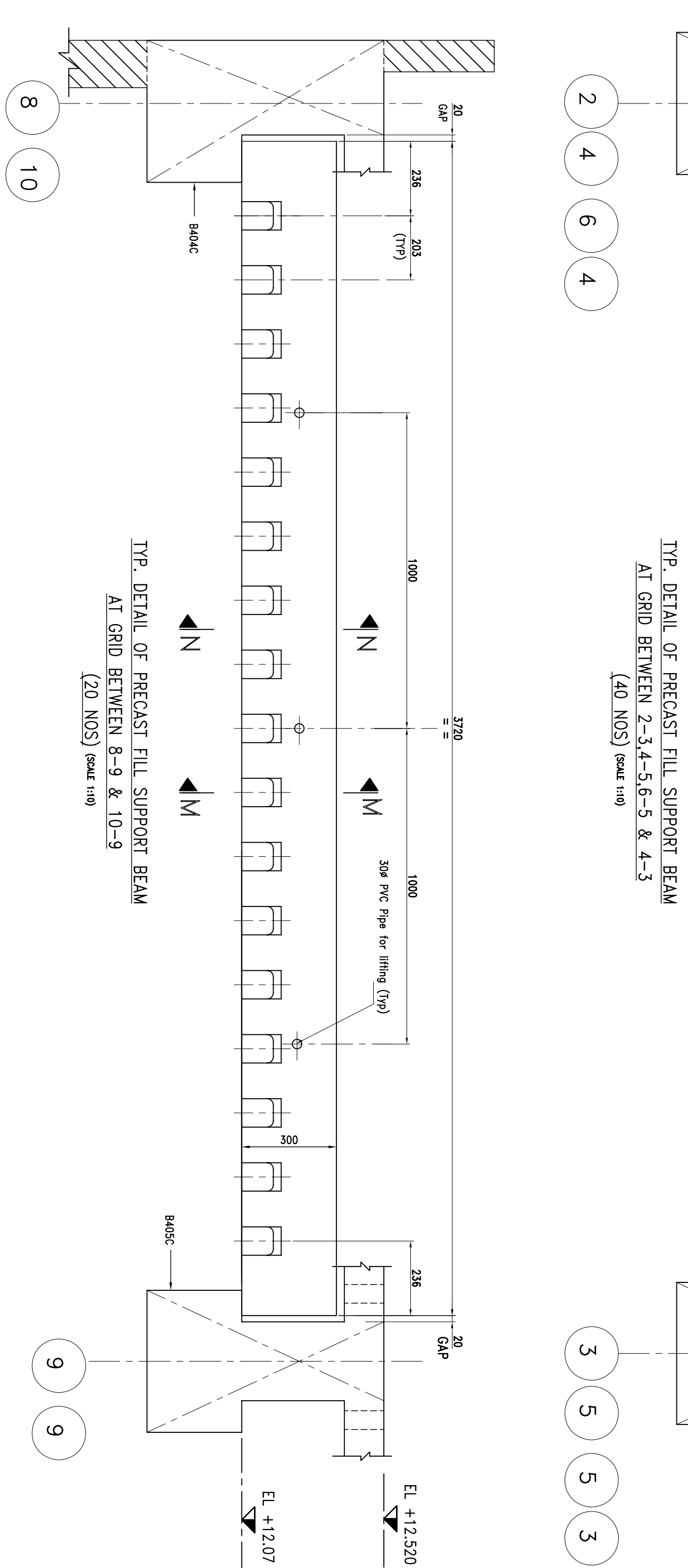
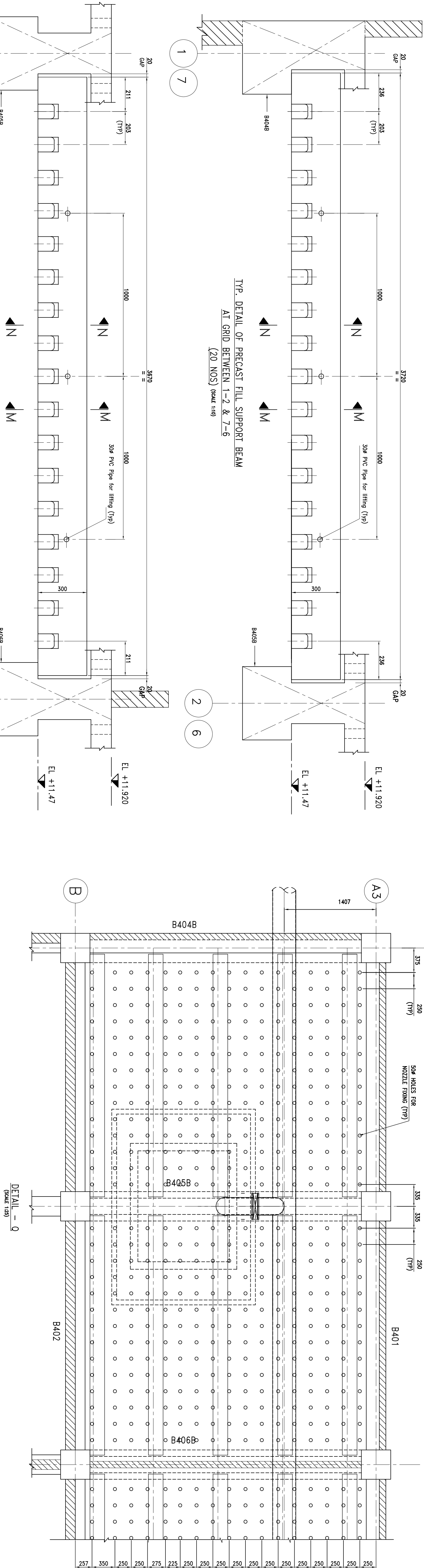


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	DRAWING N°
	C204525-C-03
	0
	SHEET NO. 2 OF 4
	REVISION



<u>SECTION Y-Y'</u>					
(Scale 1:10)					
Revd No	Date	Description	Prepared	Checked	Approved
0	29.04.11	ISSUED FOR APPROVAL	SQA	DSM	DSM
WRITTEN PERMISSION, WE RESERVE THE RIGHTS ON ALL PATENTS GRANTED AND ON THE KNOW HOW CONTAINED IN THIS DRAWING.					
					SHEET NO. 3 OF 4
					REV.
					SHEET SIZE



- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS, ALL LEVELS ARE IN METERS
 2. FOR ALL OTHER NOTES REFER SH 1 OF 4 IN THIS DRG.

CONSULTANT : M/S J.P. MUKHERJI & ASSOCIATES PVT.LTD.

PROJECT : FINCHAA SUGAR FACTORY EXPANSION ETHIOPIA.

BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

SCALE : 1:100

TITLE : LAYOUT AND RC DETAILS OF BEAM & SLAB AT HW DISTRIBUTION LEVEL CONDENSER / BEARING COOLING TOWERS

FILE NAME : C204353-G-01

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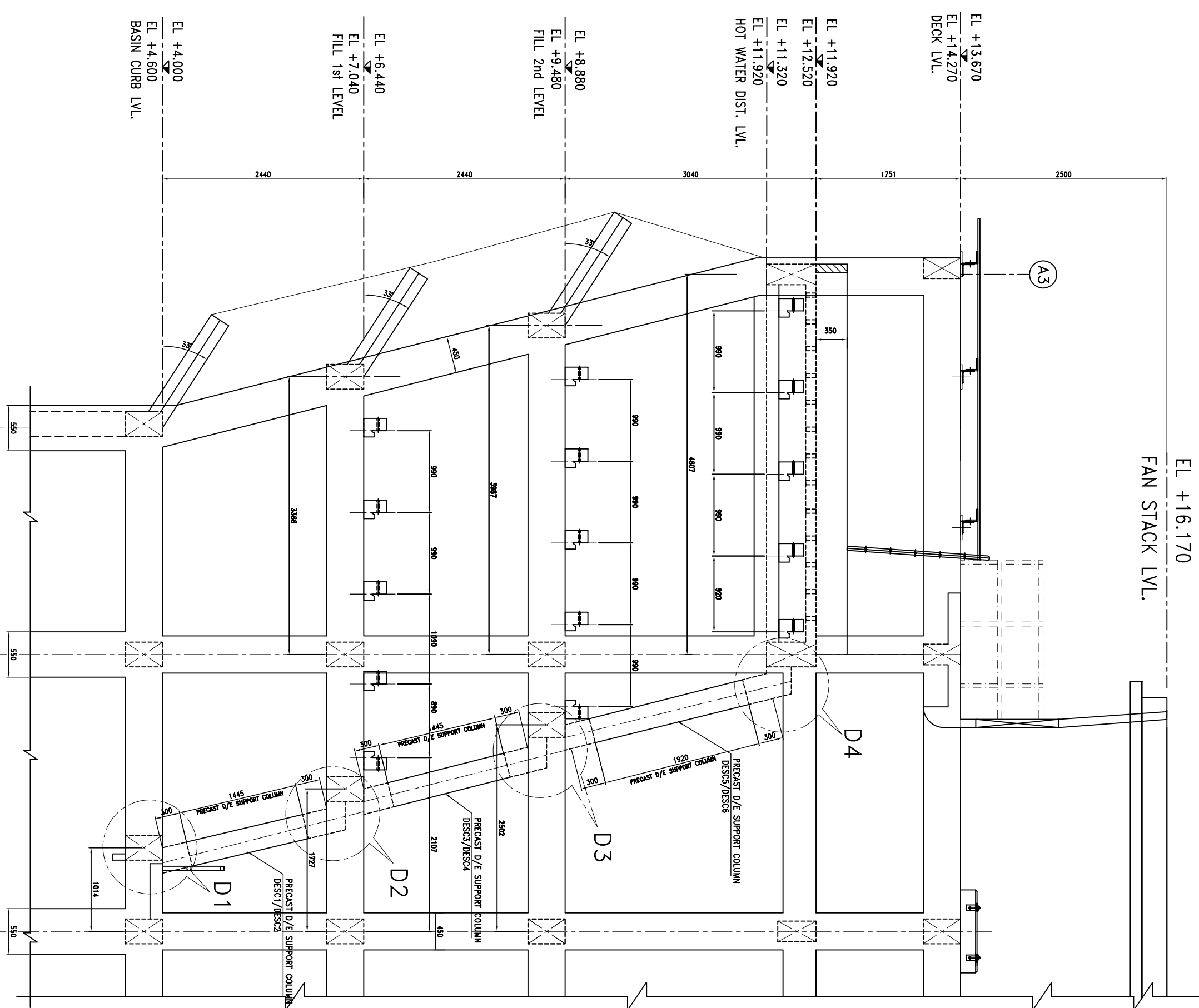
DRAWING N° C204525-C-03

SHEET NO. 4 OF 4

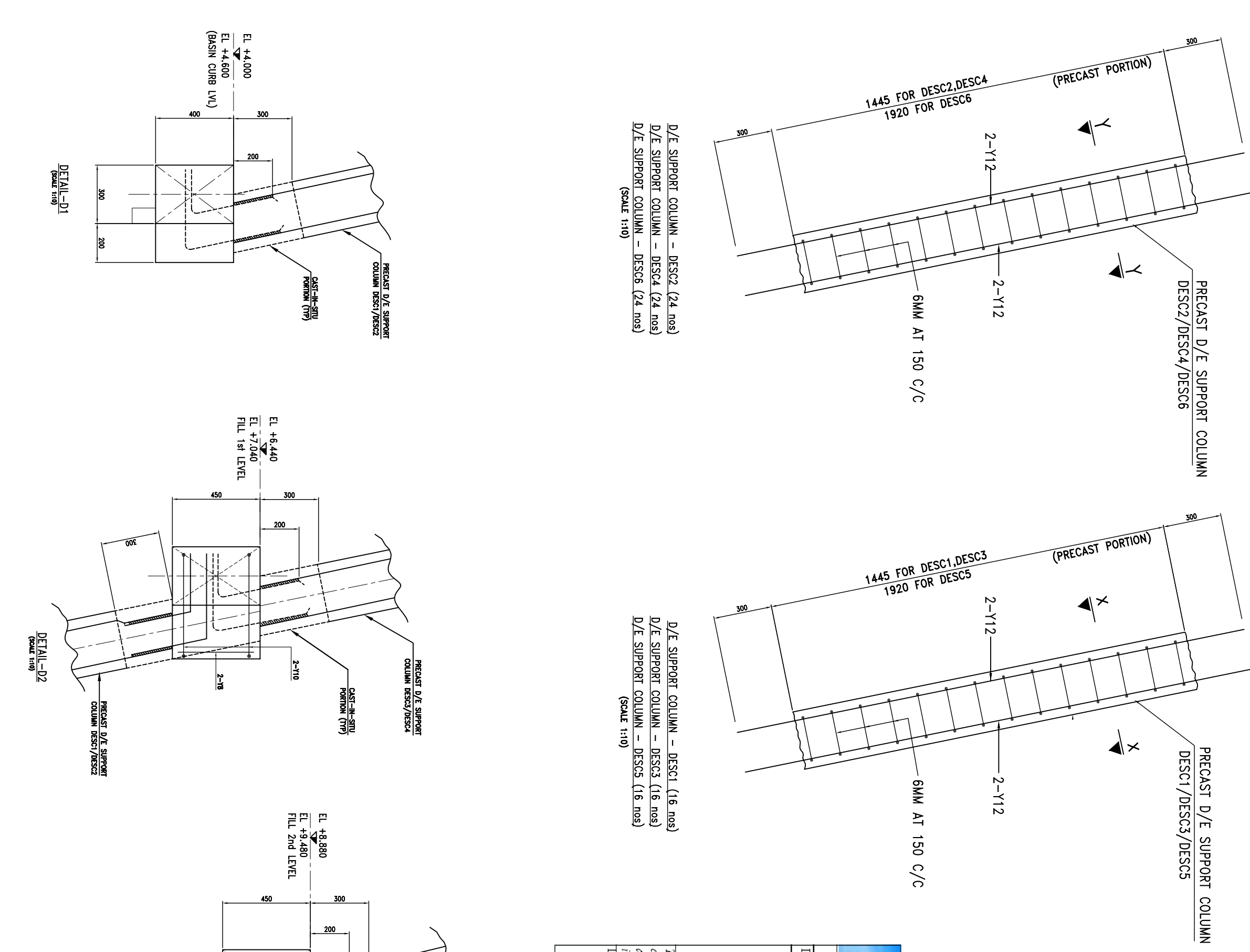
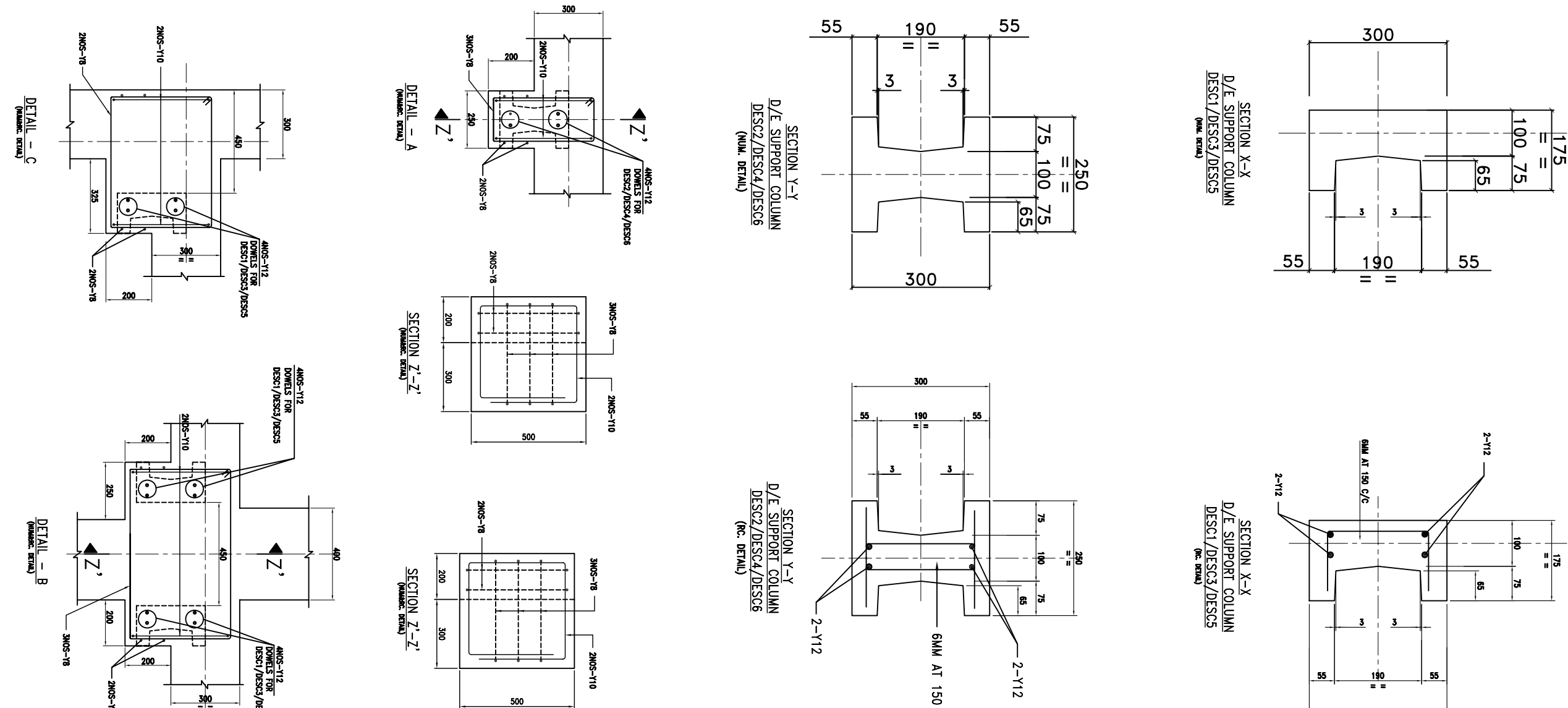
REVISION 0

SHEET SIZE : A1

IF IN DOUBT ASK, DO NOT SCALE DRAWING



DETAILS OF PRE-CAST COLUMN FOR DRIFF ELIMINATOR SUPPORT (SCALE 1:25)



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS, ALL LEVELS ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
2. GRADE OF CONCRETE SHALL BE M25.
3. 'Y' DENOTES HIGH YIELD STRENGTH HAVING YIELD STRENGTH NOT LESS THAN 415 N/mm² CONFORMING TO IS: 1786-1985.
4. CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS
BOTTOM SIDE
(a) FOR BEAM 50
(b) FOR SLAB 30
(c) FOR PRE-CAST COL. 50
5. LAP LENGTH SHALL BE 50xD. UNLESS NOTED OTHERWISE IN THE DRAWINGS. ALL LAPS SHALL BE STAGGERED
6. THIS DRG. SHALL BE READ IN CONJUNCTION WITH CONTRACT SPECIFICATION.



BHARAT HEAVY ELECTRICALS LTD
HYDERABAD

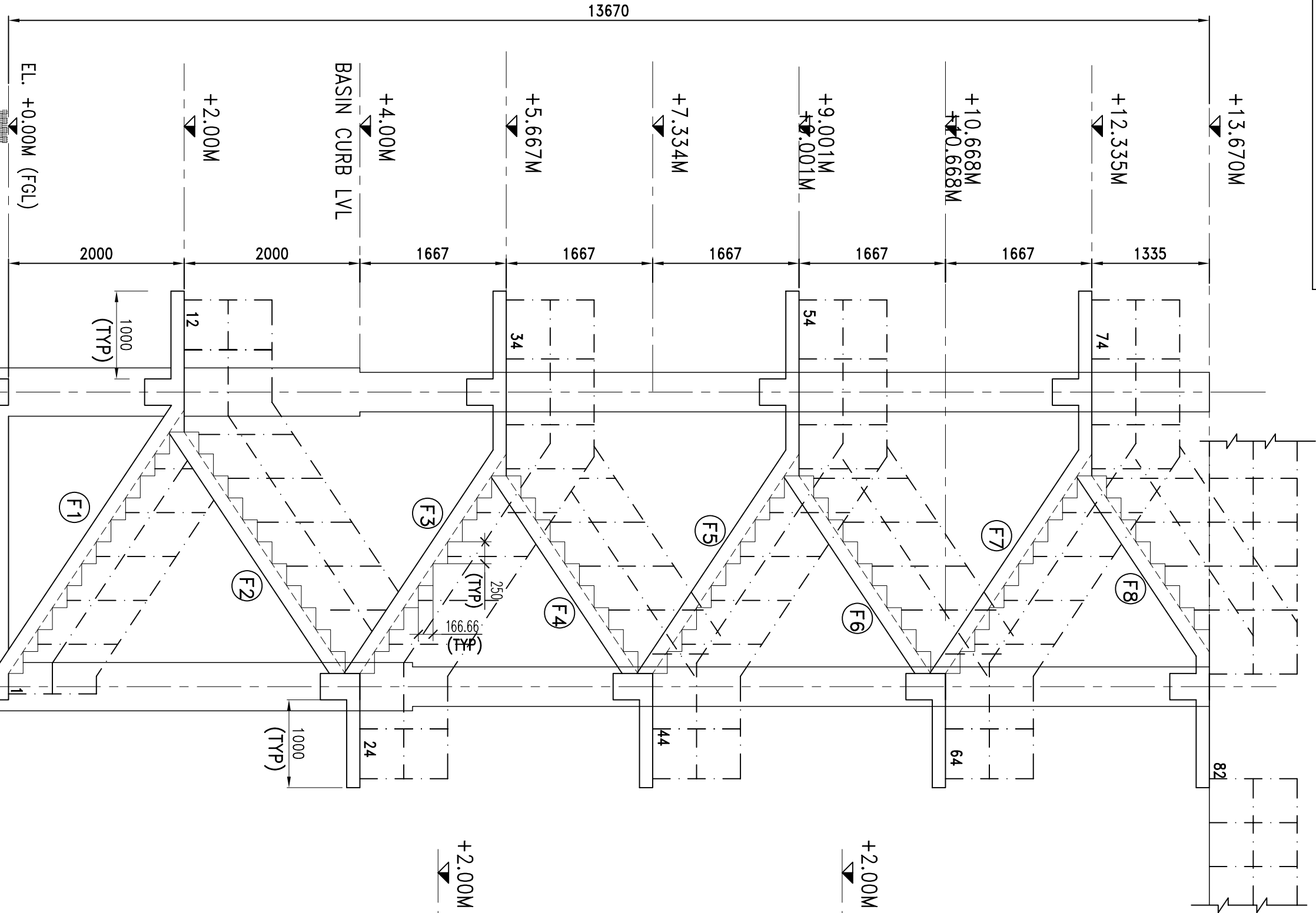
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1:100	LAYOUT AND RC. DETAILS OF PRECAST DRIFF ELIMINATOR COLUMNS FOR CONDENSER / BEARING COOLING TOWERS	DRWN BY S.S.11	5.11
mm	FILE NAME	CHECKED BY S.S.11	7.11
C204525-C-01		APPROVED BY D.S.11	7.11



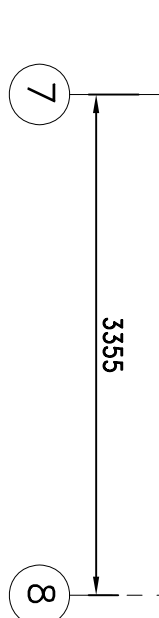
HAMON SHRIRAM COTTRELL PVT LTD.

PROJEC	CONSULTANT	PROJEC	CONSULTANT
FINCHAA SUGAR FACTORY EXPANSION ETHIOPIA.	M/S J.P. MUKHERJI & ASSOCIATES PVT.LTD.	FINCHAA SUGAR FACTORY EXPANSION ETHIOPIA.	M/S J.P. MUKHERJI & ASSOCIATES PVT.LTD.

DRAWING N°	REVISION
C204525-C-04	0
SHEET NO. 1 OF 1	
SHEET SIZE: A1	



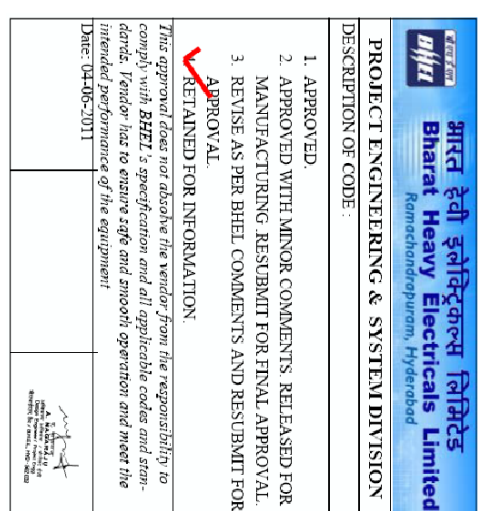
SECTION A-A
(SCALE 1:30)



PLAN
(SCALE 1:35)
INSERT PLATE DETAIL-IP1

SECTION-B
(SCALE 1:35)

TYP. CS. OF LBI
(SCALE 1:25)



DETAIL-1
(SCALE 1:10)

FLIGHT -F2
(SCALE 1:25)
(1 NO)

FLIGHT -F2
(SCALE 1:25)
(1 NO)

FLIGHT -F4/F6
(SCALE 1:25)
(2 NO)

FLIGHT -F4/F6
(SCALE 1:25)
(2 NO)

VIEW-3
(SCALE 1:10)

DETAIL-2 (REINF.)
(TYP.)

DETAIL-2 (NUM)
(SCALE 1:10)

FLIGHT -F3/F5/F7
(SCALE 1:25)
(3 NO)

FLIGHT -F3/F5/F7
(SCALE 1:25)
(3 NO)

FLIGHT -F8
(SCALE 1:25)
(1 NO)

FLIGHT -F8
(SCALE 1:25)
(1 NO)

FLIGHT -F1
(SCALE 1:25)
(1 NO)

FLIGHT -F1
(SCALE 1:25)
(1 NO)

FLIGHT -F1
(SCALE 1:25)
(1 NO)

FLIGHT -F1
(SCALE 1:25)
(1 NO)

FLIGHT -F1
(SCALE 1:25)
(1 NO)

FLIGHT -F1
(SCALE 1:25)
(1 NO)

FLIGHT -F1
(SCALE 1:25)
(1 NO)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS. ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. GRADE OF CONCRETE SHALL BE M25.
3. CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS
 - (a) FOR COLUMN 50
 - (b) FOR BEAM 50
 - (c) FOR SLAB 30
 - (d) FOR SLAB 30
4. LAP LENGTH SHALL BE SODIA. UNLESS NOTED OTHERWISE IN THE DRAWINGS.
5. ALL LAPS SHALL BE STAGGERED

CONSULTANT : M/S J.P. MUKHERJI & ASSOCIATES PVT.LTD.

PROJECT : FINCHAA SUGAR FACTORY EXPANSION
ETHIOPIA.

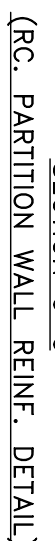
BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

SCALE	TITLE:	INITIALS	DATE
1:100	RC. DEATILS OF STARCASE FOR CONDENSER / BEARING COOLING TOWERS	SSA	8.8.11
FILE NAME	C204353-C-01	CHECKED BY	8.8.11
APPROVED BY	8.8.11	DATE	8.8.11

HAMON SHIRIAM COTTRELL PVT LTD.

DRAWING N°	REVISION
C204353-C-017	0
SHEET NO. 1	OF 1
SHEET SIZE : A1	

REV	DATE	ISSUED FOR APPROVAL	DESCRIPTION	PREPARED	CHECKED	APPROVED
0	7.05.11	ISSUED FOR APPROVAL		SSA	DSM	DSM



1. ALL DIMENSIONS ARE IN MILLIMETERS, ALL LEVELS ARE IN METERS.
UNLESS OTHERWISE SPECIFIED.

DESCRIPTION OF CODE

RETAINED FOR INFORMATION

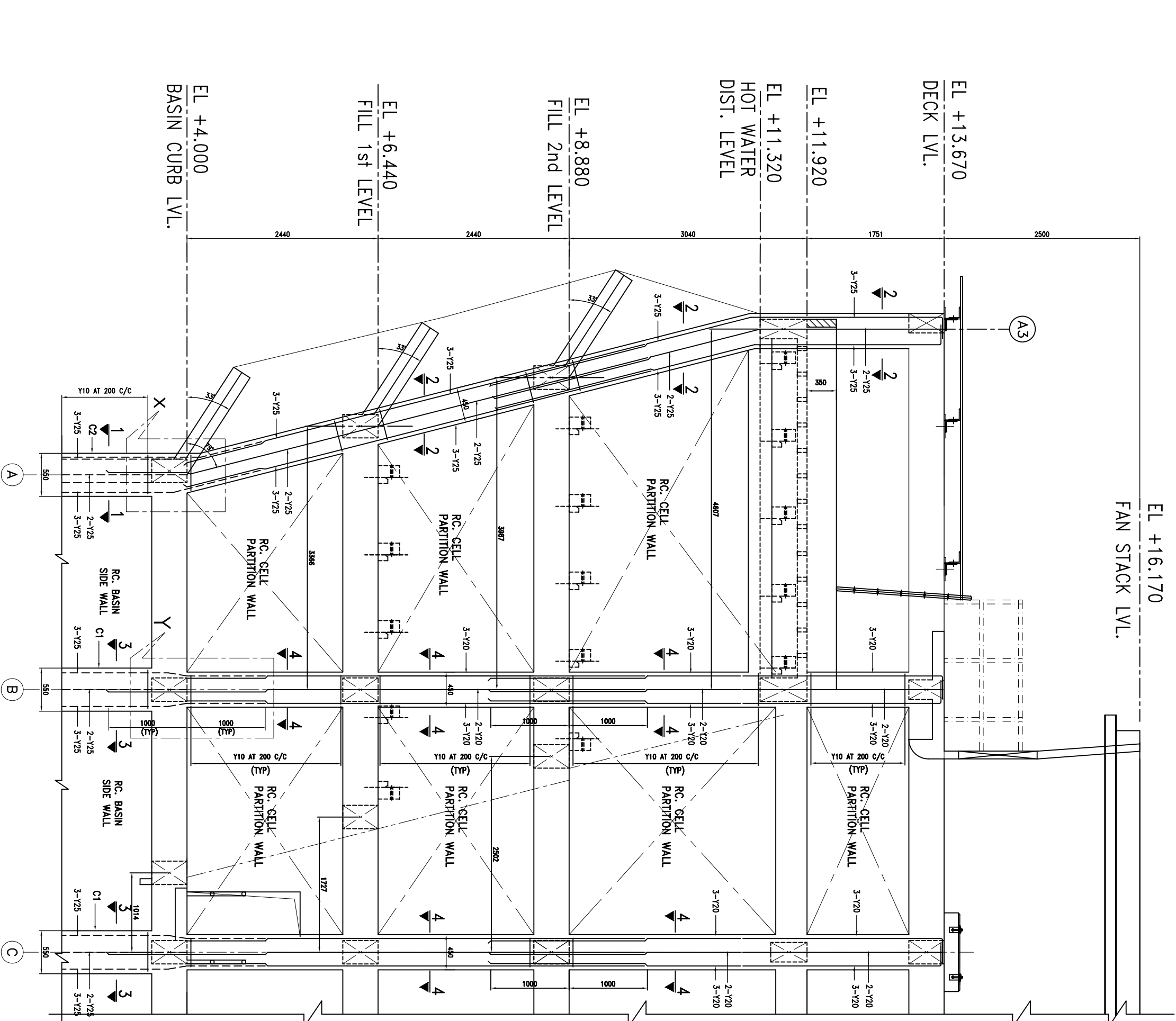
Date: 04-06-2011

		8074753C, Rev. 08/12/14, 1745-362 (12)
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Rev.No	DATE	DESCRIPTION
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CHECKED	APPROVED	ALL PATENTS GRANTED AND ON THE KNOW HOW CONTAINED IN THIS DRAWING.	SHEET NO. 2 OF 2	REVISION
			SHEET SIZE : A1	

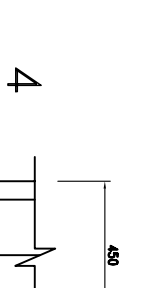
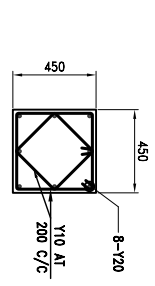
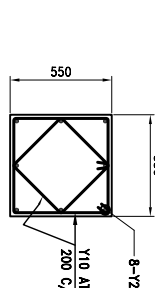
C204363-G-01	CONDENSER / BEARING COOLING LOWER
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REINF. DETAILS OF COLUMN ALONG GRID NO : 1 & 7

REINF. DETAILS OF COLUMN ALONG GRID NO : 2,4&8
(SCALE 1:25)

REINFT. DETAILS OF COLUMN ALONG GRID NO. : 3 & 4
(Sheet 1-23)



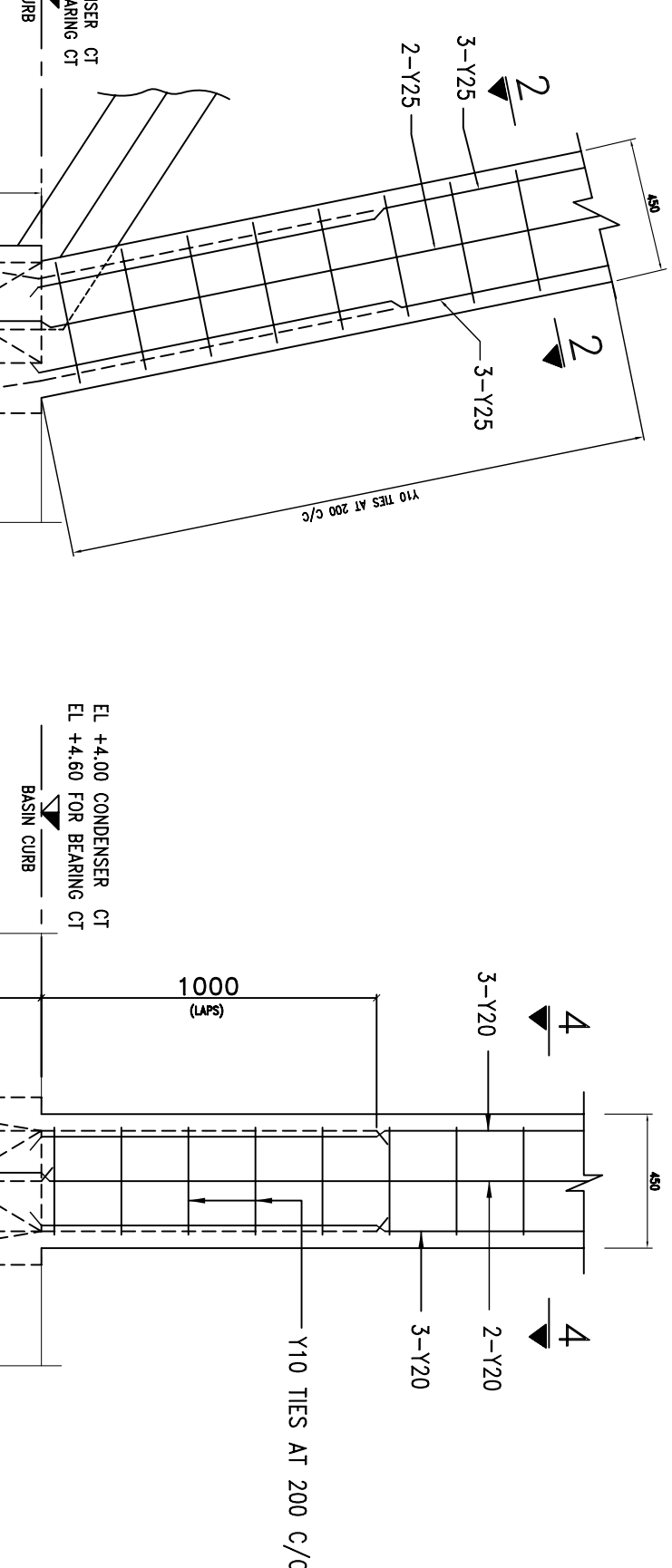
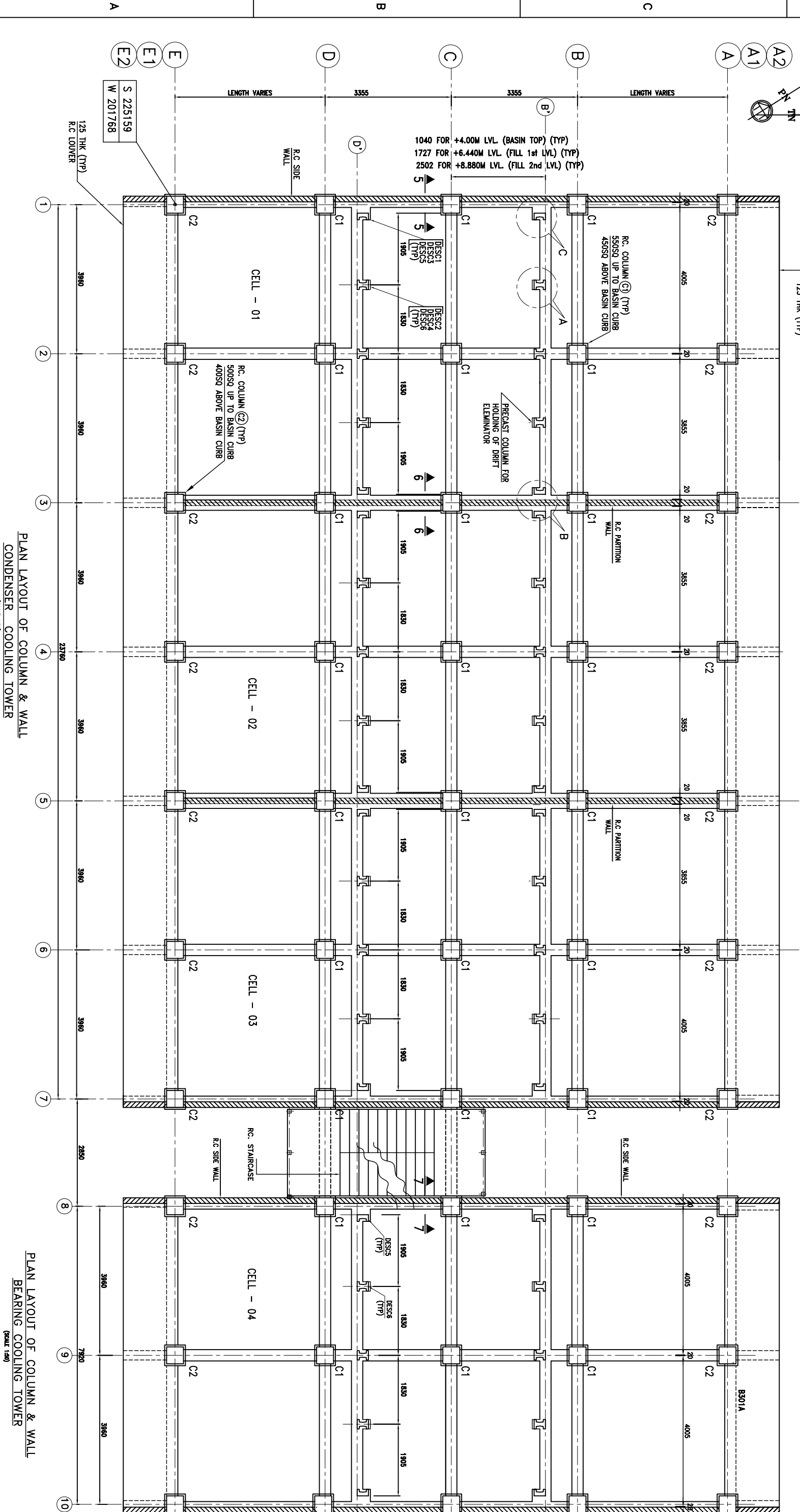
This approach does not involve the transfer from the responsibility to comply with BHEL's specification and all applicable codes and standards. Vendor has to ensure safe and smooth operation and meet the intended performance of the equipment.

Date: 04-08-2011



Authorized person
Name: _____
Designation: _____
Date: _____

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



1. ALL DIMENSIONS ARE IN MILLIMETERS, ALL LEVELS ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
2. GRADE OF CONCRETE SHALL BE M25.
3. 'Y' DENOTES HIGH YIELD STRENGTH HAVING YIELD STRENGTH NOT LESS THAN 415 N/mm² CONFORMING TO IS: 1786-1985.
4. CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS

	BOTTOM	SIDE
(a) FOR BEAM	50	50
(b) FOR WALL	40	40
5. LAP LENGTH SHALL BE 50X ϕ . UNLESS NOTED OTHERWISE IN THE DRAWINGS ALL LAPS SHALL BE STAGGERED

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS. ALL LEVELS ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
2. GRADE OF CONCRETE SHALL BE M25.
3. 'Y' DENOTES HIGH YIELD STRENGTH HAVING YIELD STRENGTH NOT LESS THAN 415 N/mm² CONFORMING TO IS: 1786-1985.
4. CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS

	BOTTOM	SIDE
(a) FOR BEAM	50	50
(b) FOR WALL	40	40
5. LAP LENGTH SHALL BE 30X ϕ .A. UNLESS NOTED OTHERWISE IN THE DRAWINGS ALL LAPS SHALL BE STAGGERED

CONSULTANT :
M/S J.P. Mukherji & Associates Pvt.Ltd.

FINCHAA SUGAR FACTORY EXPANSION ETHIOPIA.

BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

SCALE	1:100	TITLE	LAYOUT AND RC DETAILS OF COLUMNS & WALLS FOR CONDENSER / BEARING COOLING TOWERS
DIMENSIONS IN	mm	DRAWN BY	SSAU
FILE NAME	C20A305-C-01	CHECKED BY	75.11
		DSM	75.11
		APPROVED BY	75.11
		DSM	
		DATE	



HAMON SHRIRAM COTTRELL PVT LTD.

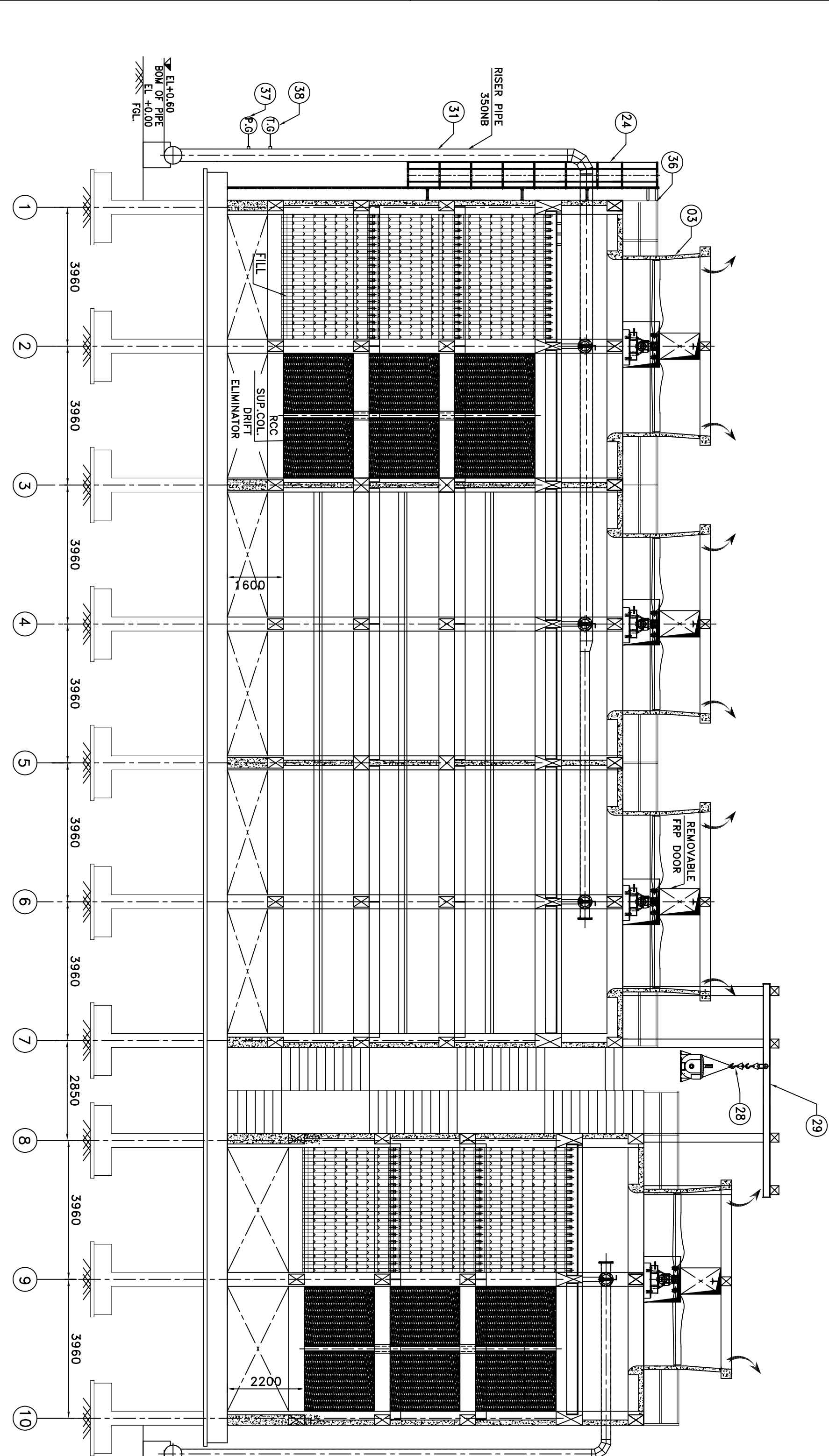
THIS DRAWING AND DESIGN IS CONFIDENTIAL,
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DRAWING N

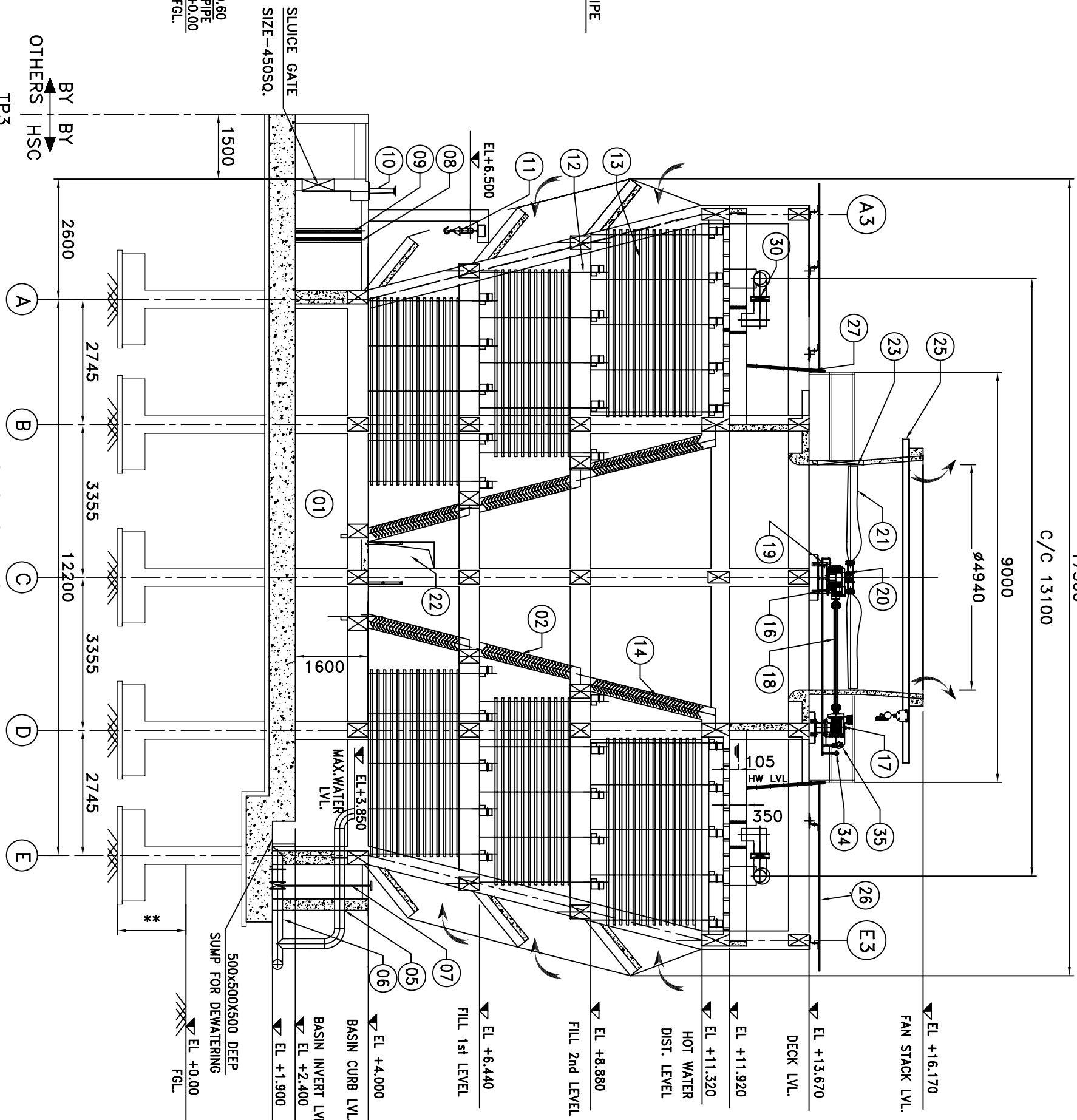


MADE AVAILABLE TO THIRD PARTIES WITHOUT PRIOR WRITTEN PERMISSION. WE RESERVE THE RIGHTS ON ALL PATENTS GRANTED AND ON THE KNOW HOW CONTAINED IN THIS DRAWING.

SHEET NO. 1	OF 2	REVISION
SHEET SIZE : A		



SECTIONAL ELEVATION FOR CONDENSER COOLING TOWER



SECTIONAL SIDE VIEW-AA FOR CONDENSER COOLING TOWER

TECHNICAL DETAILS			
		CONDENSER COOLING TOWER	BEARING COOLING TOWER
1. APPLICATION	:	INDUCED DRAUGHT RCC CROSS FLOW TOWER	INDUCED DRAUGHT RCC CROSS FLOW TOWER
2. TYPE	:	CCE-7973-42-03	CCE-7973-42-01
3. MODEL NO	:	3 (2W + 1S)	ONE (1WORKING)
4. NO. OF CELL	:	1450 CU/M/HR	815 CU/M/HR
5. TOTAL CAPACITY	:	725 CU/M/HR/CELL	815 CU/M/HR/CELL
6. FLOW RATE / CELL	:	42° C	30° C
7. HOT WATER TEMPERATURE	:	25.30° C	4.880 MTRS
8. COLD WATER TEMPERATURE	:	4.880 MTRS	55 KW
9. DESIGN INLET WET BULB TEMP.	:		
10. FAN DIAMETER	:		
11. MOTOR	:		
TERMINAL POINTS :-			
SR.NO.	DESCRIPTION	TERMINAL POINTS	
1	HOT WATER FEEDER PIPE - TP1	TERMINATED AT 1 MTR. AWAY FROM EDGE OF THE CT. (AT GROUND LVL.)	
2	DRAIN (COMMON DRAIN) - TP2	TERMINATED AT 1MTR. AWAY FROM EDGE OF THE CT. (AT GROUND LVL.)	
3	COLD WATER FOREBAY - TP3	TERMINATED AT 1.50 MTR. AWAY FROM EDGE OF SLUICE GATE OF EACH CELL.	
4	ELECTRICAL	UP TO MOTOR INLET TERMINALS. -EARTHING & LIGHTING SHALL BE PROVIDED UP TO G.L. CABLE TRAY AND ACCESSORIES SHALL BE PROVIDED FOR POWER & CONTROL CABLES UP TO JUNCTION BOX INCLUDING JUNCTION BOX AT GROUND LEVEL. -LIGHTING SYSTEM SHALL BE PROVIDED AT CT DECK LEVEL AND STAIRCASE.	
5	INSTRUMENTATION	-UP TO JUNCTION BOX INCLUDING JUNCTION BOX AT GROUND LEVEL. -LOCAL PUSH BUTTON STATION TO BE PROVIDED FOR EACH FAN MOTOR.	
GENERAL NOTES:-			
1. ALL DIMENSIONS ARE IN MILLIMETERS AND ALL LEGES ARE IN METERS. (1:10)			
2. THE STRUCTURE SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE AND CLEARANCE.			
3. COMPLETE CIVIL CONSTRUCTION WITH CEMENT AND STEEL WITH AGROCEMENTS, SUPERVISION OF ELEC. CIVIL WORKS IS BY HSC.			
4. SILE BEARING CAPACITY OF SOIL IS 19T/SQM CONSIDER.			
5. ** MARKED DIMENSION TO BE DECDED BY BEHL.			
SPECIAL NOTES :-			
1. FOL 10:000 CORRESPONDS TO RL 1439.0m			

38.	TEMPERATURE GAUGE	STD.	4 Sst
37.	PRESSURE GAUGE	STD.	4 Sst
36.	HAND RAIS (FAN DECK LEVEL,PLENUM WALK WAY & STAIRCASE) - 320N	GI	-
35.	VERIBATION LIMIT SWITCH	MIPPE	4 Sst
34	LOW OIL LEVEL SWITCH	WAPPE	4 Sst

GENERAL NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETERS AND ALL LEVELS ARE IN METERS UNDO.

2. POSITION OF LADDERS, STAIR CASE MAY BE CHANGED AS PER SITE LAYOUT AND CLEARANCE.

3. COMPLETE CIVIL CONSTRUCTION WITH GEMENT AND STEEL WITH AGGREGATES.

NECESSARY MAINTENANCE LABOUR BY OTHERS.

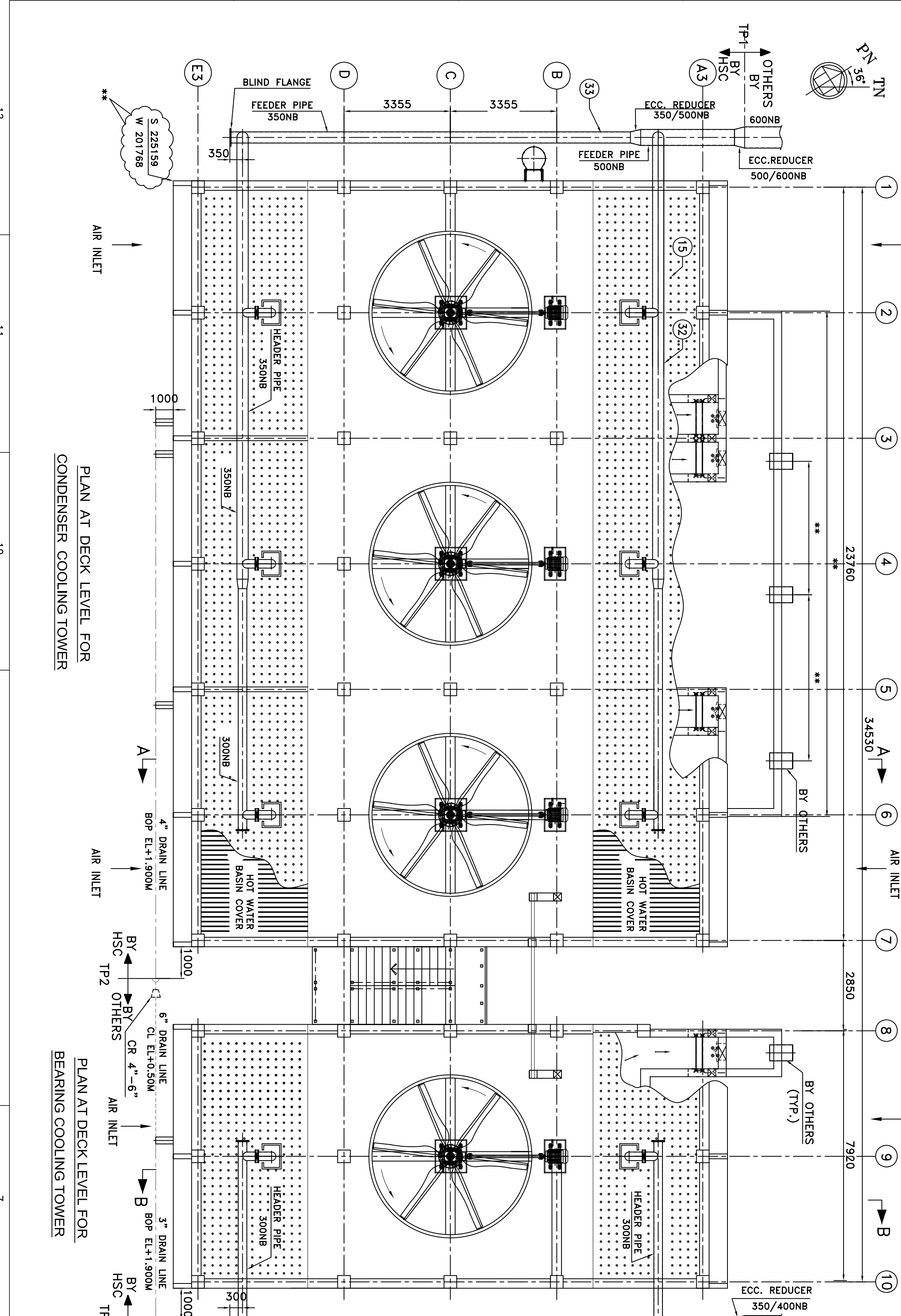
SUPERVISION OF E.E.C. CIVIL WORKS IS BY H.S.C.

4. SAFE BEARING CAPACITY OF SOIL IS 19T/50M CONSIDER (HIGHLY WEATHERED ROCK IMMEDIATELY BENEATH THE RED CLAY).

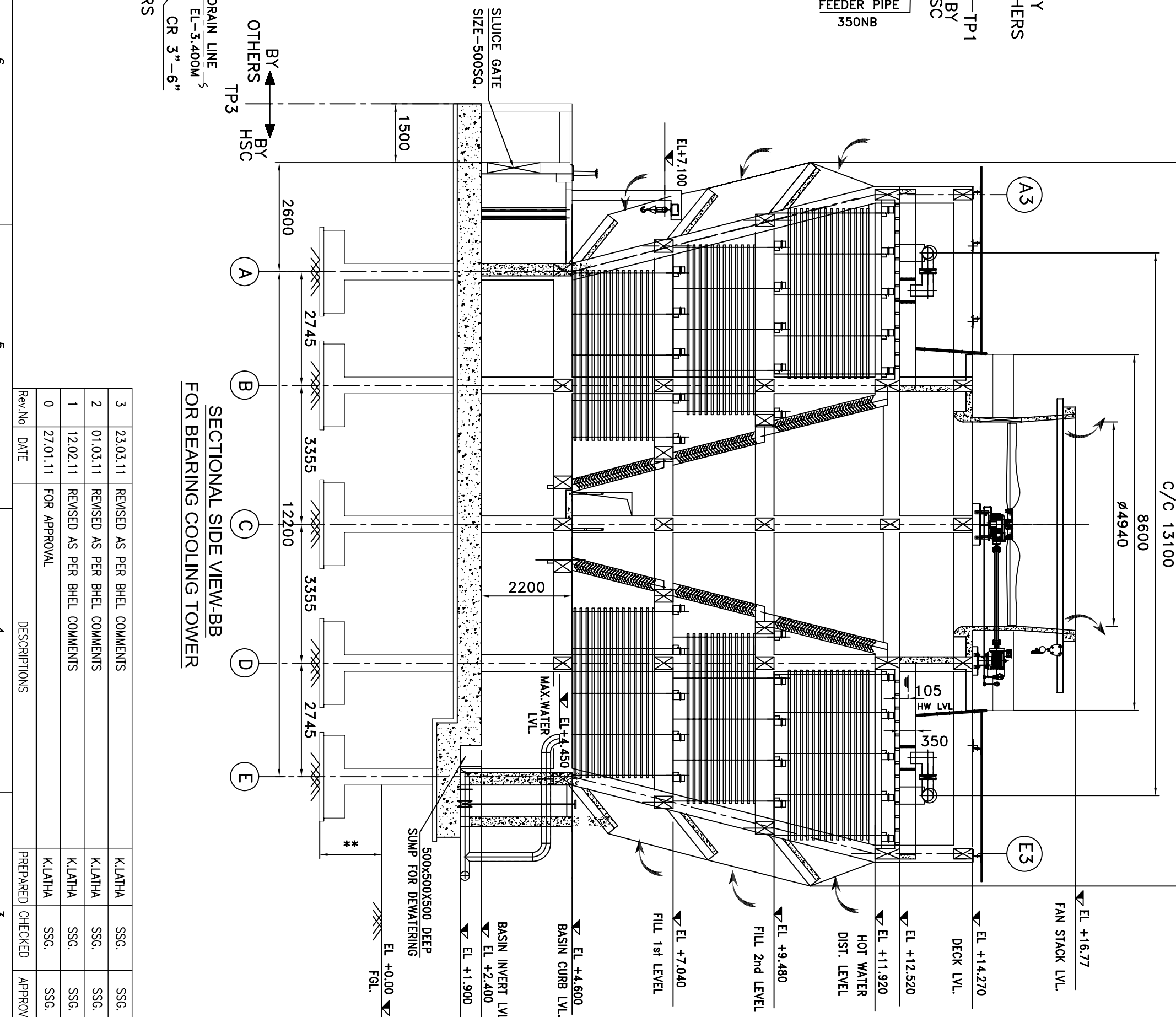
5. ** MARKED DIMENSION TO BE DECIDED BY BEHL.

SPECIAL NOTES.

1. FOL. 40.000 CORRESPONDS TO RL. 1439.0m



PLAN AT DECK LEVEL FOR CONDENSER COOLING TOWER



PLAN AT DECK LEVEL FOR BEARING COOLING TOWER

38.	1. FILL TO DRAIN CONNECTIONS TO RU R/W 1439.0MM	STD.	4 Sds	
39.	TEMPERATURE GAUGE	STD.	4 Sds	
37.	PRESSURE GAUGE	STD.	4 Sds	
36.	HAND RAIS (FAN DECK LEVEL, PLENUM W/AY & STAIRCASE) -320MM G.I	MURPHY	4 Sds	
35.	VARIATION LIMIT SWITCH	WAGER	4 Sds	
34.	LOW LOU LEVEL SWITCH	WAGER	4 Sds	
33.	FEDDER PIPE -500MM/250MMOR COND.CITATIONS/200MMOR BEARING CIT	MS PAINTED 2 Sds	4 Sds	
32.	HEADER PIPE - 300MM/250MM	MS PAINTED 4 Sds	4 Sds	
31.	RISER PIPE - 250MM/200MM	MS PAINTED 4 Sds	4 Sds	
30.	FAN CONTROL VALVE/B/PLANE-4250MM COND.CIT & 4300 FOR BEARING CIT	MS PAINTED 1 No.	1 No.	
29.	END WALL DRAIN-MONORAL BEAM	MS PAINTED 1 No.	1 No.	
28.	CHAM PULLEY BLOCK WITH PUSH PULLEY TROLLEY-TION	MS PAINTED 2 Sds.	4 Sds	
27.	ACCESS LADDER	MS HDS 8 Nos	4 Nos	
26.	HOT WATER DISTRIBUTION COVER	MS PAINTED 2 Nos	4 Nos	
25.	MONORAL BEAM FOR FAN STACK	MS PAINTED 1 No	4 Nos	
24.	CAGE LADDER	MS PAINTED 1 No	4 Nos	
23.	STACK DOOR	FRP	4 Nos	
22.	PLENUM DOOR (FOR INSIDE THE CT AT GRID AT 1,3,5,6,10)	FRP	5 Nos	
21.	FAN BLADE	FRP	4 Nos	
20.	FAN HUB	MS HDS 4 Nos	4 Nos	
19.	BASE FRAME FOR MOTOR & GEAR BOX	MS HDS 4+4 Sds	4 Nos	
18.	DRAVE SHAFT	MS HDS 4 Nos	4 Nos	
17.	MOTOR	STD.	4 Nos	
16.	GEAR BOX	STD.	4 Nos	
15.	NOZZLES	PP	4 Nos	
14.	DRAFT ELIMINATOR	PVC	-	
13.	FILL (V) THE SPASH BAR	PVC	-	
12.	FILL GRD	SS 304	-	
11.	CHAM PULLEY BLOCK FOR SCREEN HANDLING	STD.	1 No.	
10.	SLIDE ACT (450 SQ.FM FOR CONVEYER CT/500 SQ.FM BEARING CT)	APPY WARE 4 Nos.	4 Nos	
9.	FINE SCREEN (50.25 OPENING)	MS HDS 304 4 Nos	4 Nos	
8.	COARSE SCREEN (50.50 OPENING)	MS HDS 304 4 Nos	4 Nos	
7.	DRAIN WAVE - 8100 (GATE VALVE WITH EXTENDED SPINDLE)	STD.	4 Nos	
6.	DRAIN PIPE - 100 NB	MS HDS.	4 Nos	
5.	OVER FLOW PIPE - 100 NB	MS HDS.	4 Nos	
4.	STAIRCASE	RCC.	1 No	
3.	FAN STACK	RCC	4 Nos.	
2.	DRAFT ELIMINATOR BEAM	RCC	4 Nos.	
1.	COLD WATER BASIN	RCC	-	

S.NO.	DESCRIPTIONS	MATERIAL	QTY	REMARKS
BILL OF MATERIALS (SCOPE OF SUPPLY)				
CONSULANT : M/S J.P. MUKHERJI & ASSOCIATES PVT.LTD.				
PROJECT FINCHAA SUGAR FACTORY EXPANSION ETHIOPIA.				
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD				
DRAWING NO. C204525-G-001				
SHEET NO. 1 OF 1				
REVISION 3				
SHEET SIZE : A1				

SCALE 1:75		TITLE: GENERAL ARRANGEMENT OF COOLING TOWER WITH BATTERY LIMITS	
DIMENSIONS IN mm		CHECKED BY 220111	
FILE NAME C204363-G-01		APPROVED BY 220111	
DRAWN BY K.LAKSHI		220111	

DRAWING 'N'		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

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SHEET NO. 1 OF 1		REVISION 3	
SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

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DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
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DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
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SHEET SIZE : A1		3	

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DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
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SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01		3	
SHEET NO. 1 OF 1		REVISION	
SHEET SIZE : A1		3	

DRAWING NO. C204363-G-01	
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HAMON SHRIRAM COTTRELL PVT LTD.

FINCHAA SUGAR FACTORY EXPANSION

ETHIOPIA.

BHARAT HEAVY ELECTRICALS LTD.

HYDERABAD

GENERAL ARRANGEMENT OF COOLING TOWER WITH BATTERY LIMITS

DRAWING N° C204525-G-001

CONSULTANT :

M/S J.P. MUKHERJI & ASSOCIATES PVT.LTD.

PROJECT :

FINCHAA SUGAR FACTORY EXPANSION ETHIOPIA.

SCALE :

1:75

TITLE :

GENERAL ARRANGEMENT OF COOLING TOWER WITH BATTERY LIMITS

DATE :

22.01.11

CHECKED BY :

S.SIVAGURU

APPROVED BY :

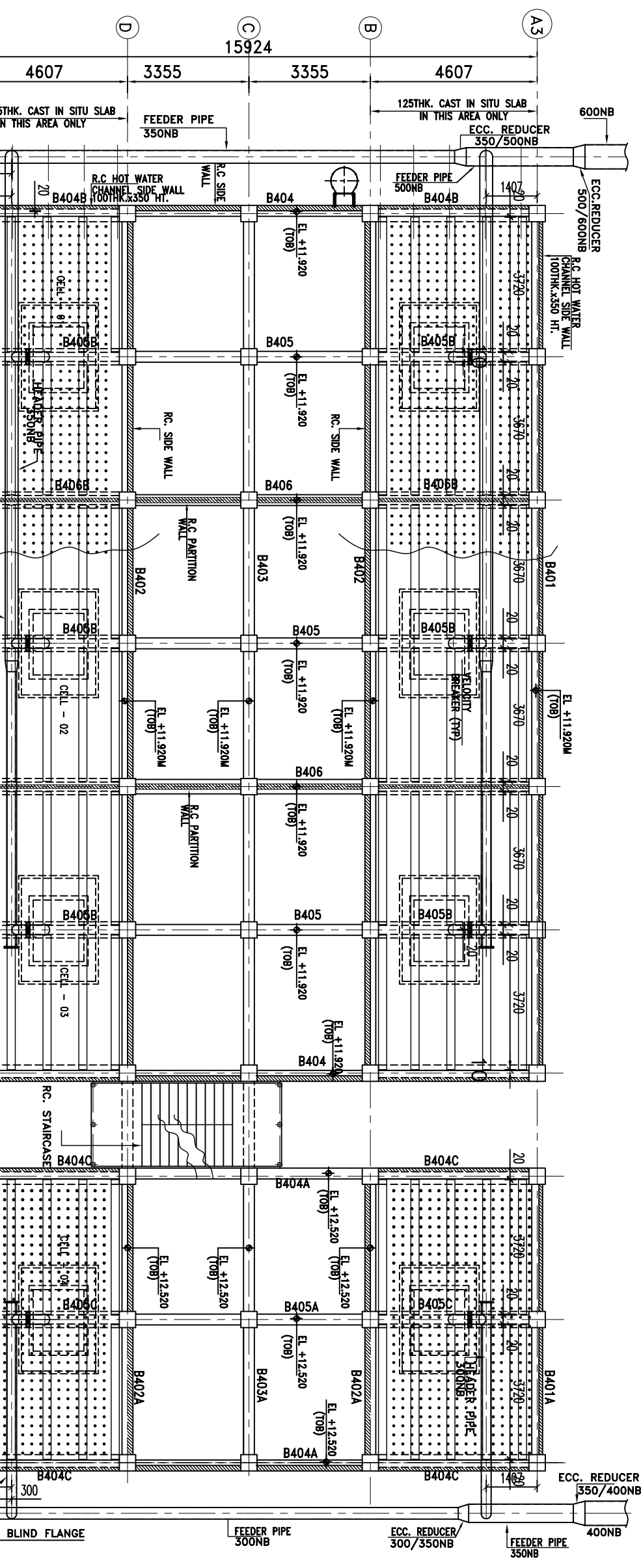
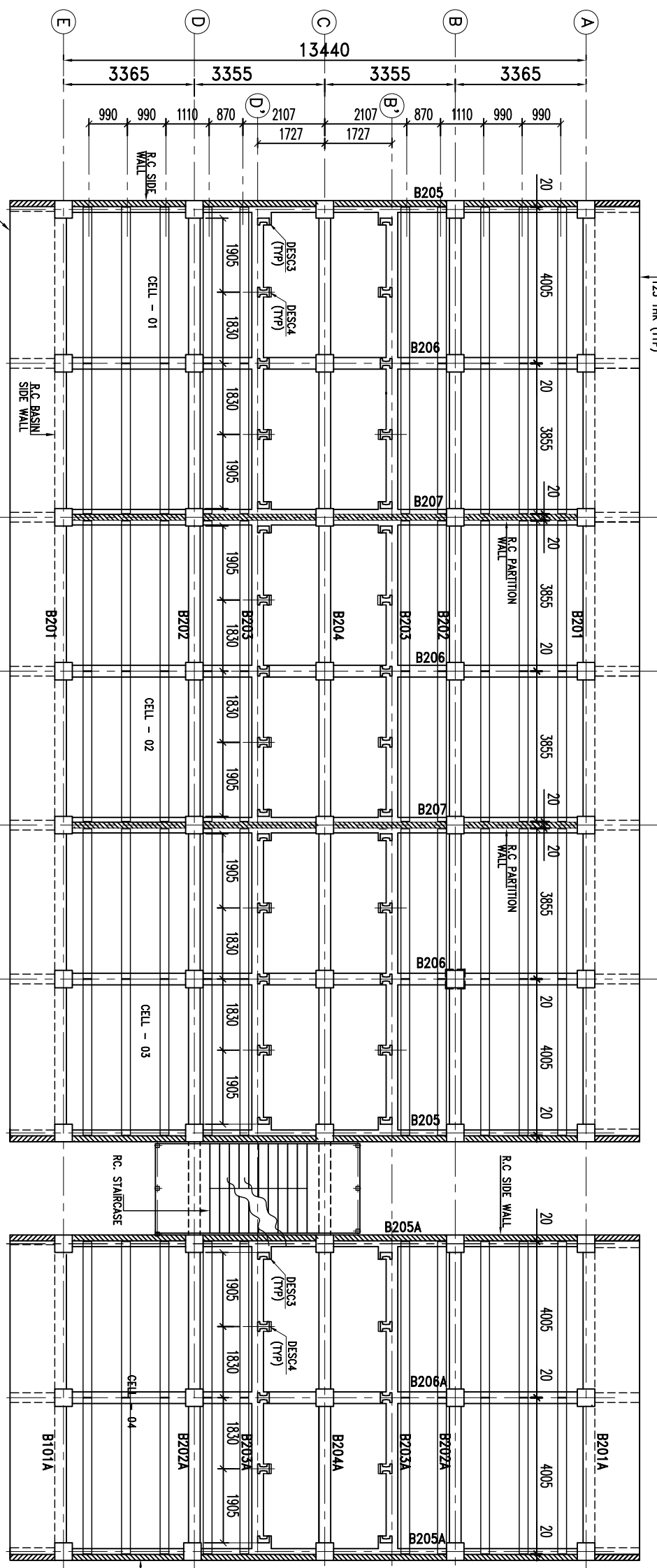
S.SIVAGURU

REVISION :

3

SHEET NO. 1 OF 1

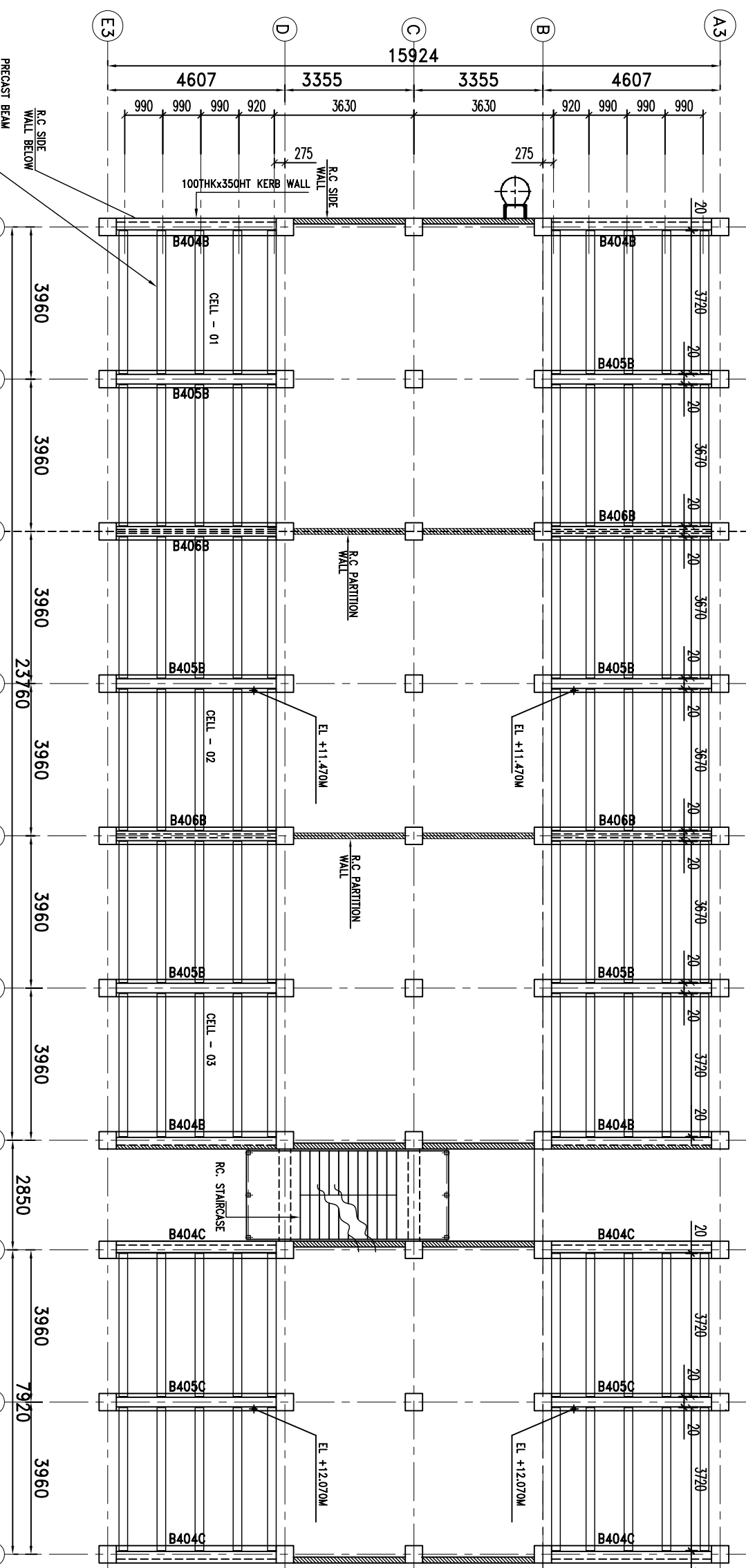
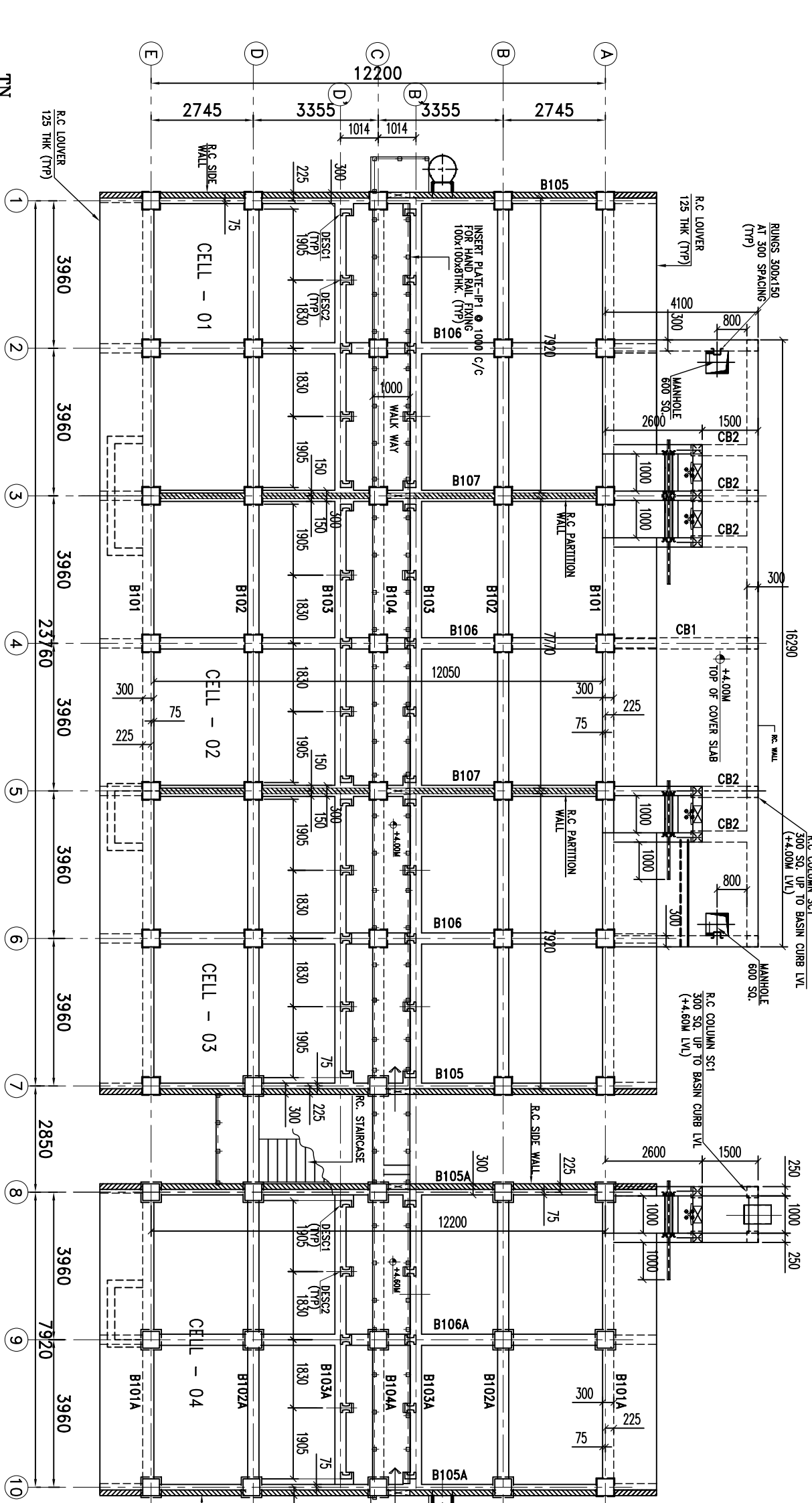
SHEET SIZE : A1



BEAM LAYOUT AT EL. +6.40M (TOB) LVL. (FILL 1st LVL) CONDENSER COOLING TOWER

BEAM LAYOUT AT EL. +11.920M (TOC) LVL. (HOT WATER DISTRIBUTION LVL) CONDENSER COOLING TOWER

BEAM LAYOUT AT EL. +12.520M (TOC) LVL. (HOT WATER DISTRIBUTION LVL) BEARING COOLING TOWER



PROJECT ENGINEERING & SYSTEM DIVISION

DESCRIPTION OF CODE:

- APPROVED
- APPROVED WITH MINOR COMMENTS. RELEASED FOR MANUFACTURING RESUBMIT FOR FINAL APPROVAL.
- REVISE AS PER BHEL COMMENTS AND RESUBMIT FOR APPROVAL.

RETAINED FOR INFORMATION

This approval does not absolve the vendor from the responsibility to comply with BHEL's specification and all applicable codes and standards. Vendor has to ensure safe and smooth operation and meet the intended performance of the equipment

Date: 01-06-2011

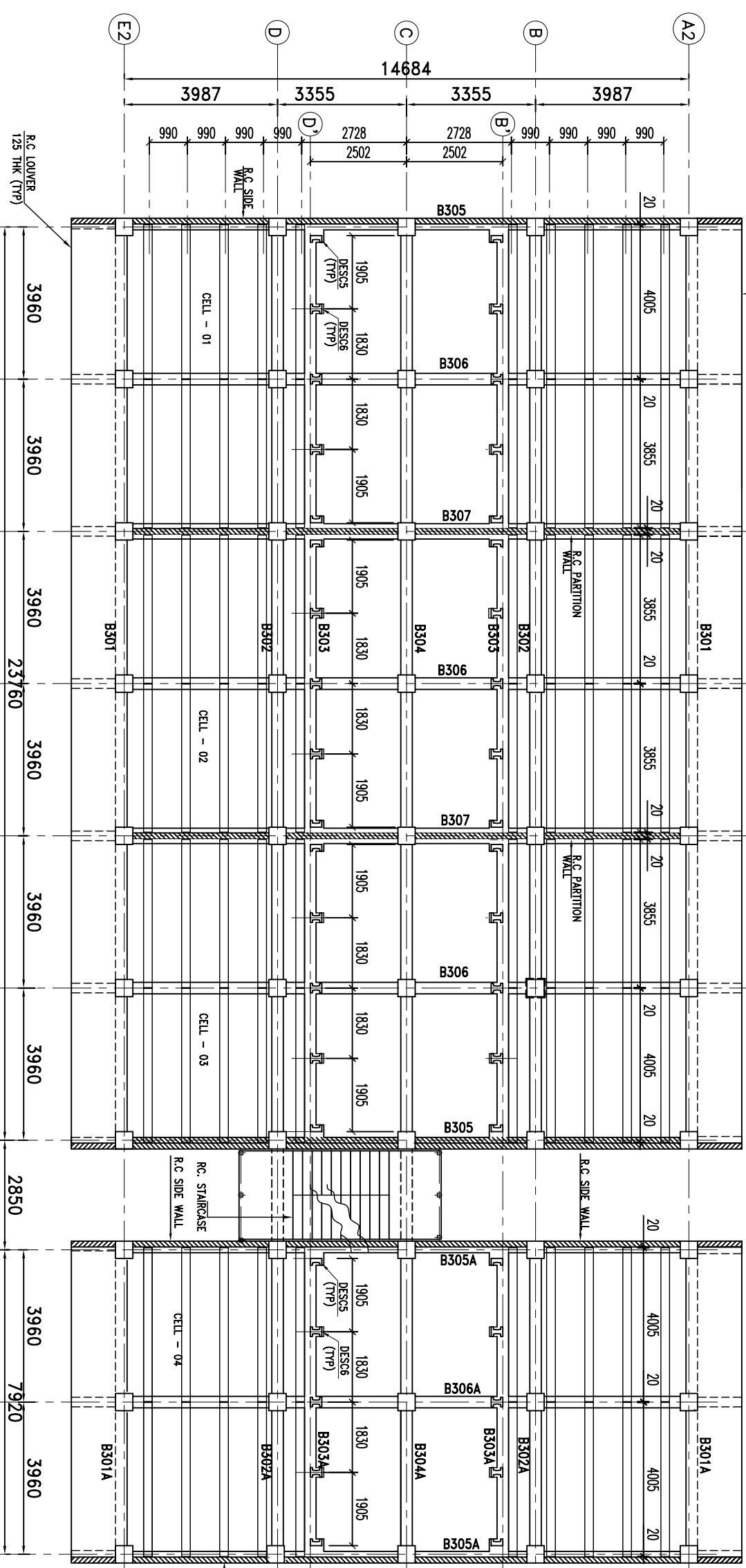
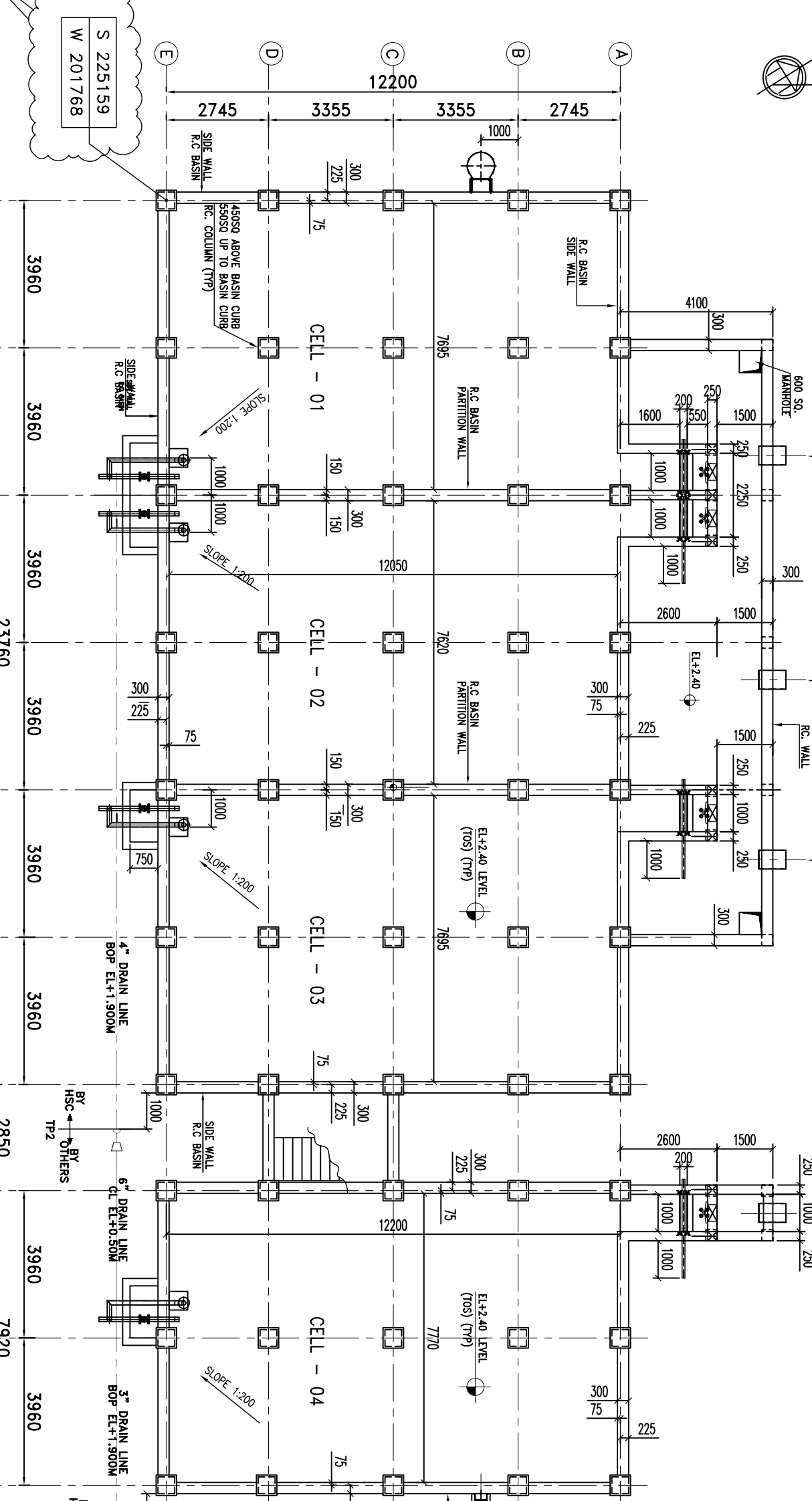
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS, ALL LEVELS ARE IN METERS
- UNLESS OTHERWISE SPECIFIED.
- SOIL BEARING CAPACITY (SBC) 19 T/SQ.M AT -2.50 M BELOW FGL.
- FGL +0.000 CORRESPONDS TO RL 1439.0m

BEAM LAYOUT AT EL. +4.00M LVL. (BASIN CURB LVL) CONDENSER COOLING TOWER

BEAM LAYOUT AT EL. +11.420M (TOB) LVL. CONDENSER COOLING TOWER

BEAM LAYOUT AT EL. +9.480M (TOB) LVL. (FILL 2nd LVL) BEARING COOLING TOWER



CONSULTANT:
M/S J.P. MUKHERJI & ASSOCIATES PVT. LTD.

PROJECT:
FINCHAA SUGAR FACTORY EXPANSION
ETHIOPIA.

BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

SCALE:
1:75

TITLE:
CIVIL GA.OF COOLING TOWER

INITIALS:
DRAWN BY: SNU
CHECKED BY: SNU
APPROVED BY: SNU

DATE:
1.11.11
4.11.11
4.11.11

REVISION:
SHEET NO. 1 OF 2

HANON SHRIRAM COTTRELL PVT LTD.

HYDERABAD

CIVIL GA.OF COOLING TOWER

1.11.11

4.11.11

4.11.11

SHEET NO. 1 OF 2

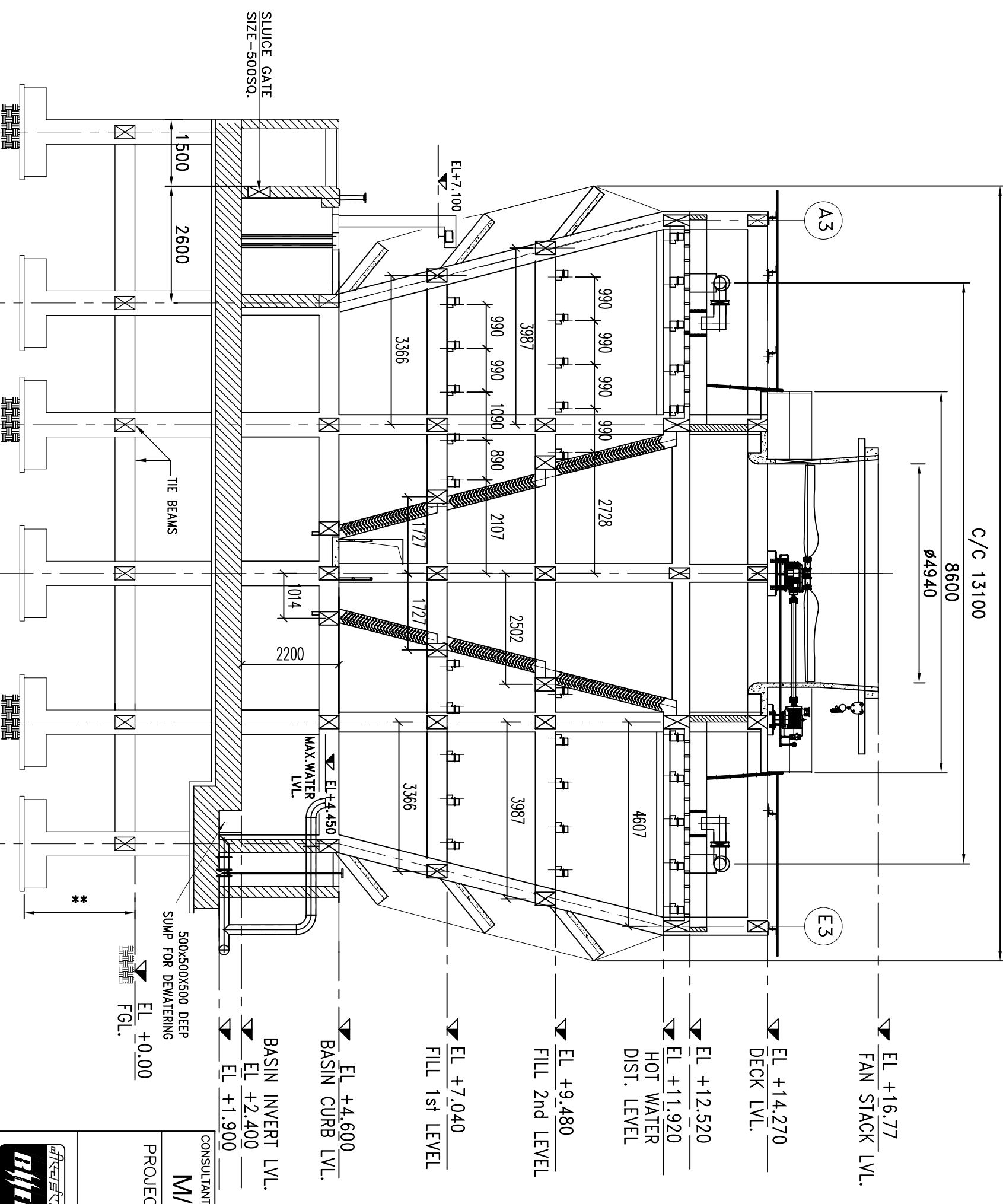
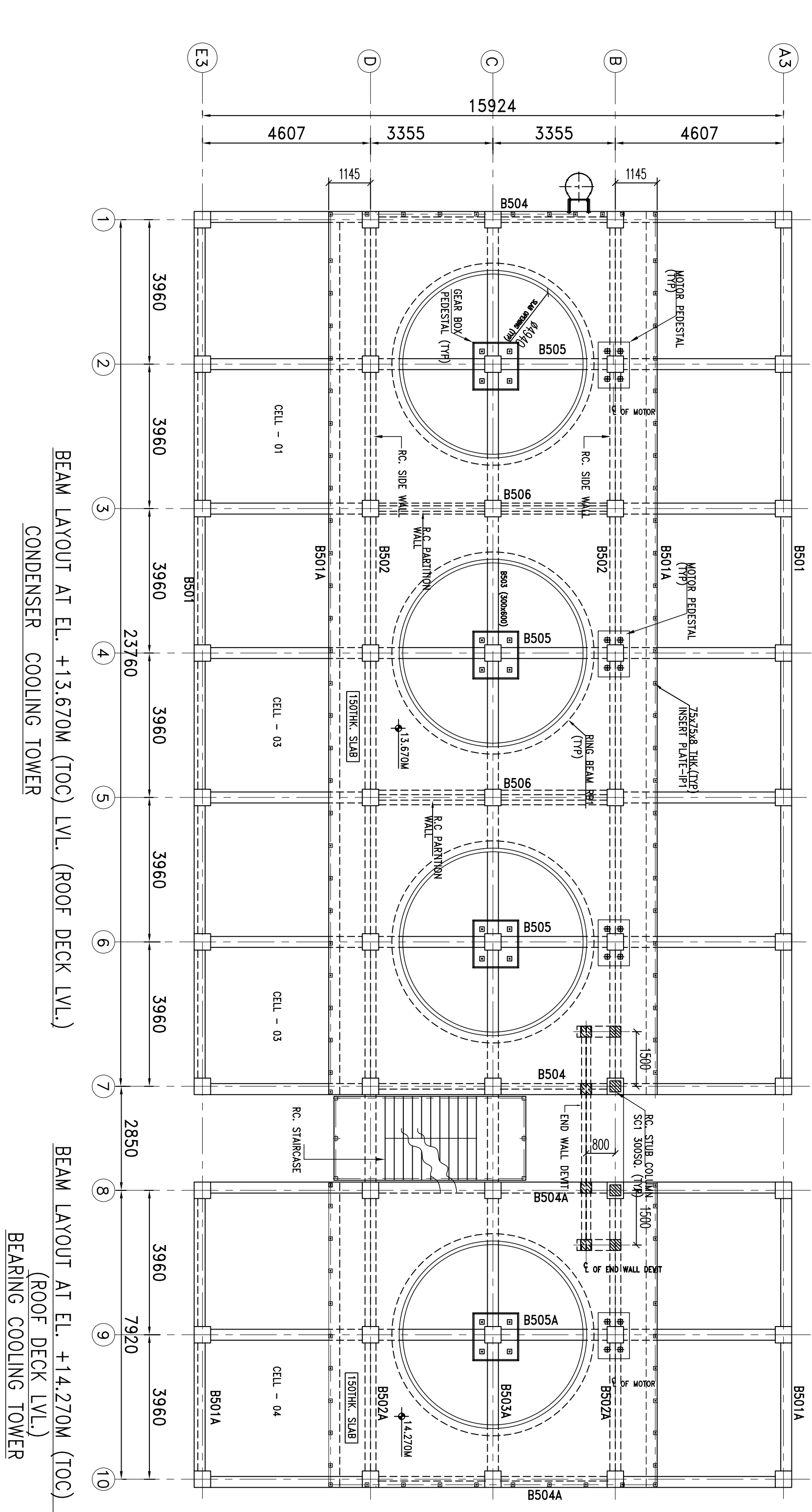
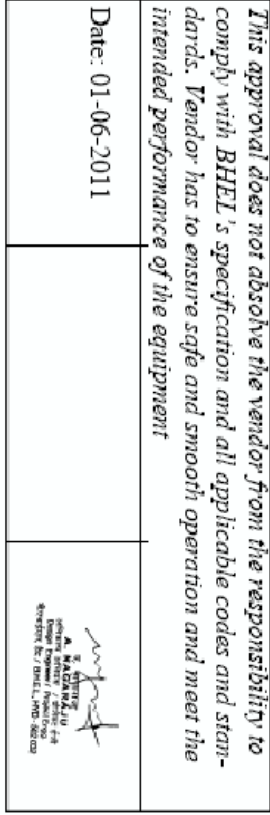
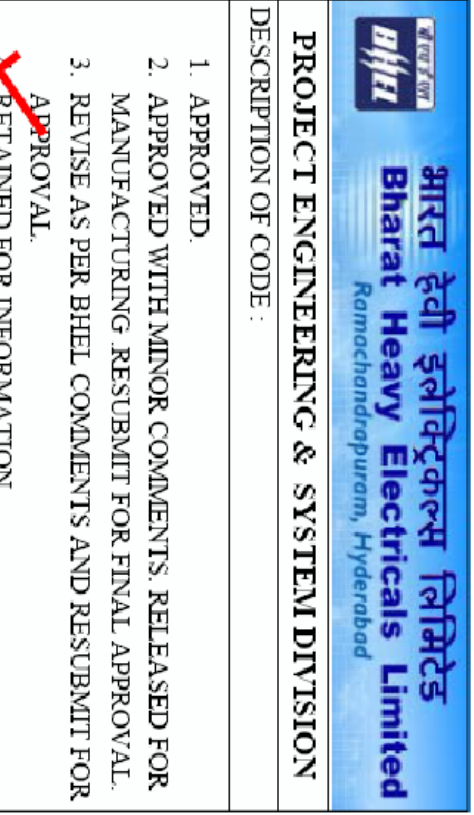
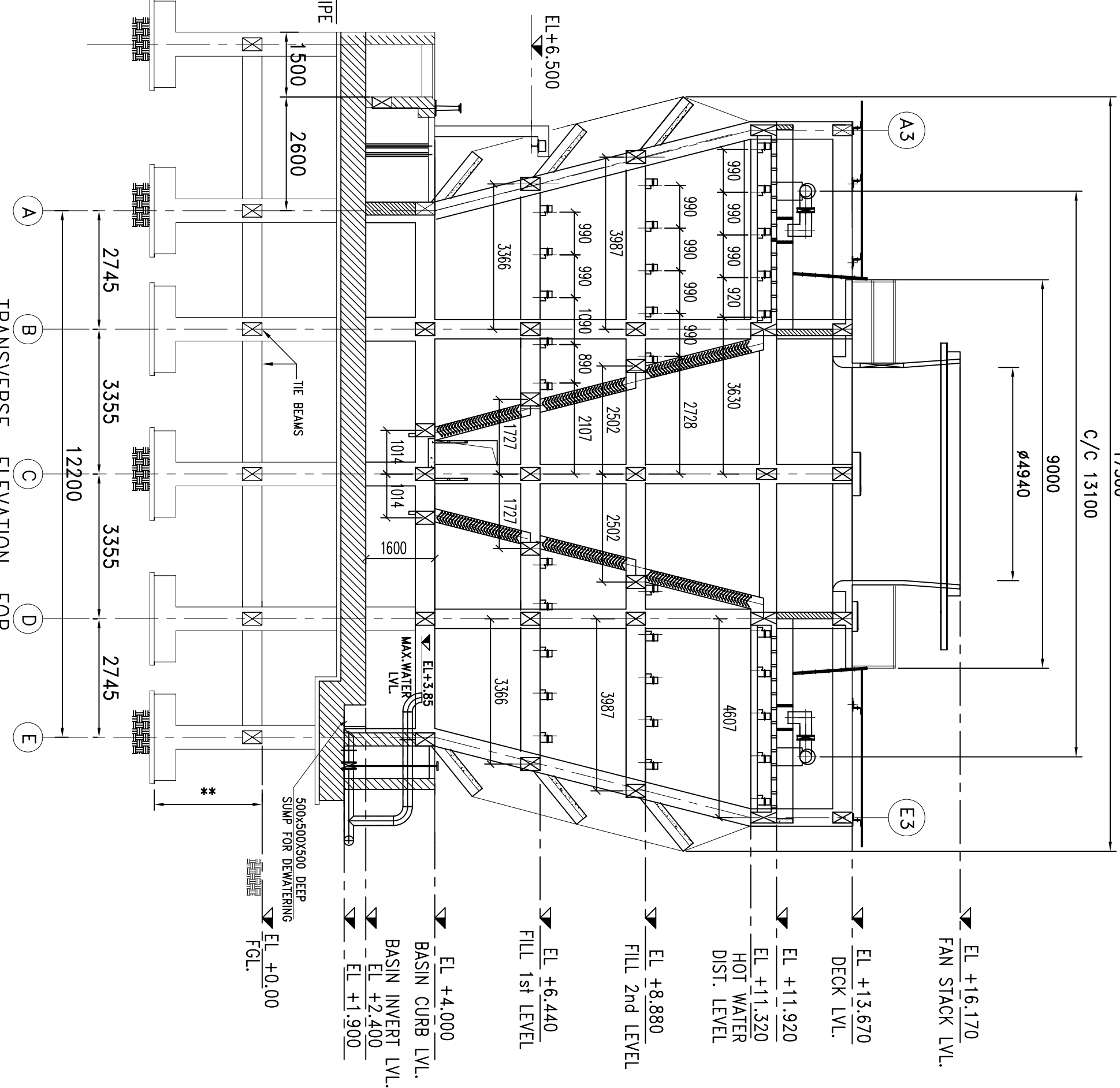
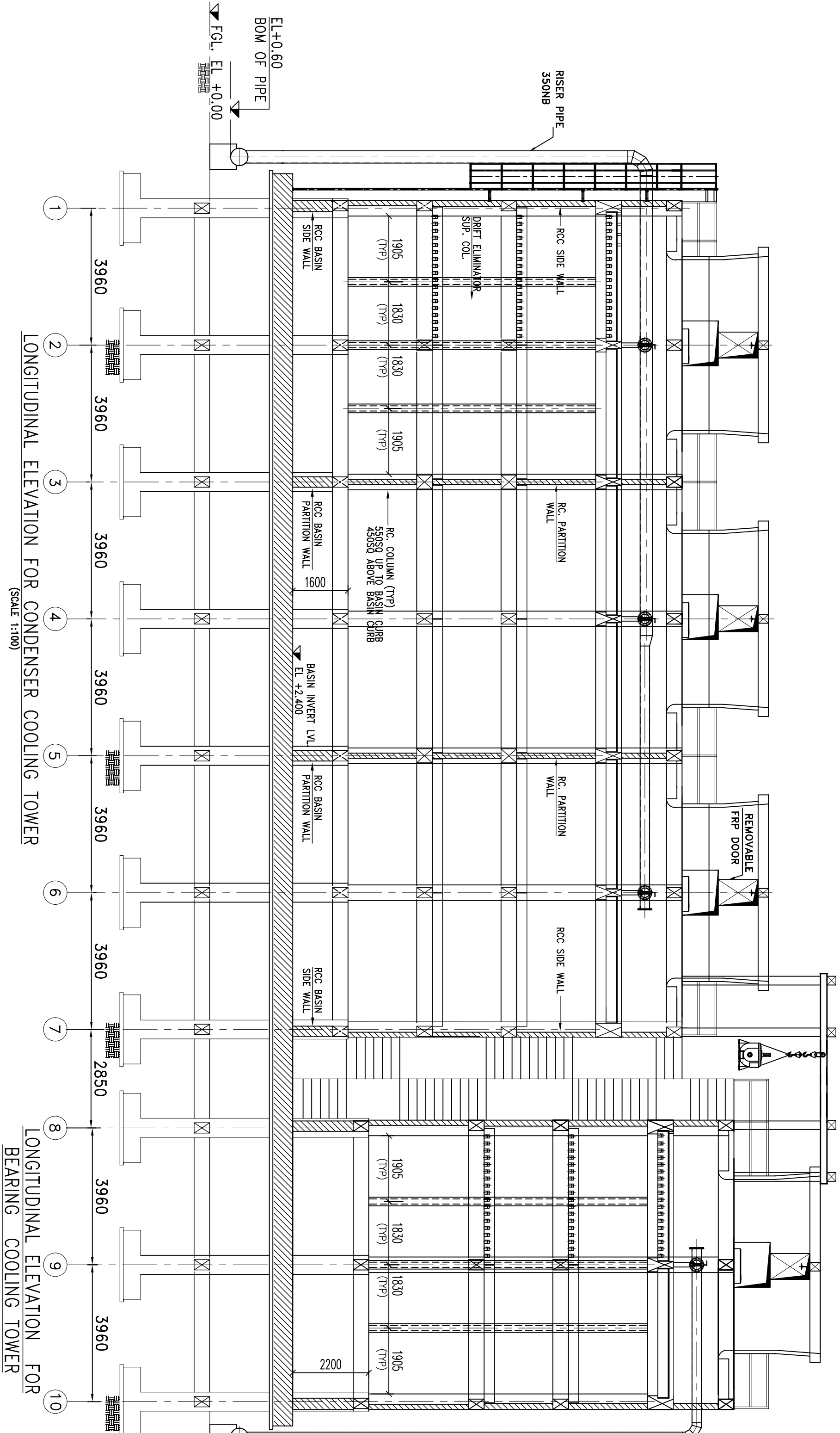
REVISION

2

SHEET SIZE: A1

IF IN DOUBT ASK, DO NOT SCALE DRAWING

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



Rev.No	DATE	DESCRIPTIONS	PREPARED	CHECKED	APPROVED
2	30.05.11	REVISED AS PER DETAILED DRAWINGS	SRU	DSM	DSM
1	24.03.11	REVISED AS PER BHLL COMMENTS	SRU	DSM	DSM
0	04.03.11	ISSUED FOR APPROVAL	SRU	DSM	DSM

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	C204525-H-004	2
SHEET NO. 2 OF 2	REVISION	SHEET SIZE : A

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS, ALL LEVELS ARE IN METERS
UNLESS OTHERWISE SPECIFIED.
2. SOIL BEARING CAPACITY (SBC) 19 T/SQ.M AT -2.50 M BELOW FGL
3. FGL +0.000 CORRESPONDS TO RL 143.0m

LEGEND:

FFL - FINISH FLOOR LEVEL
FGL - FINISH GROUND LEVEL

SPECIAL NOTE:

**** MARKED DEPTH OF OCCURENCE OF
HIGHLY WEATHERED ROCK IS TO BE
FINALISED AT SITE.**

BEAM LAYOUT AT EL. +13.670M (TOC) LVL. (ROOF DECK LVL.)

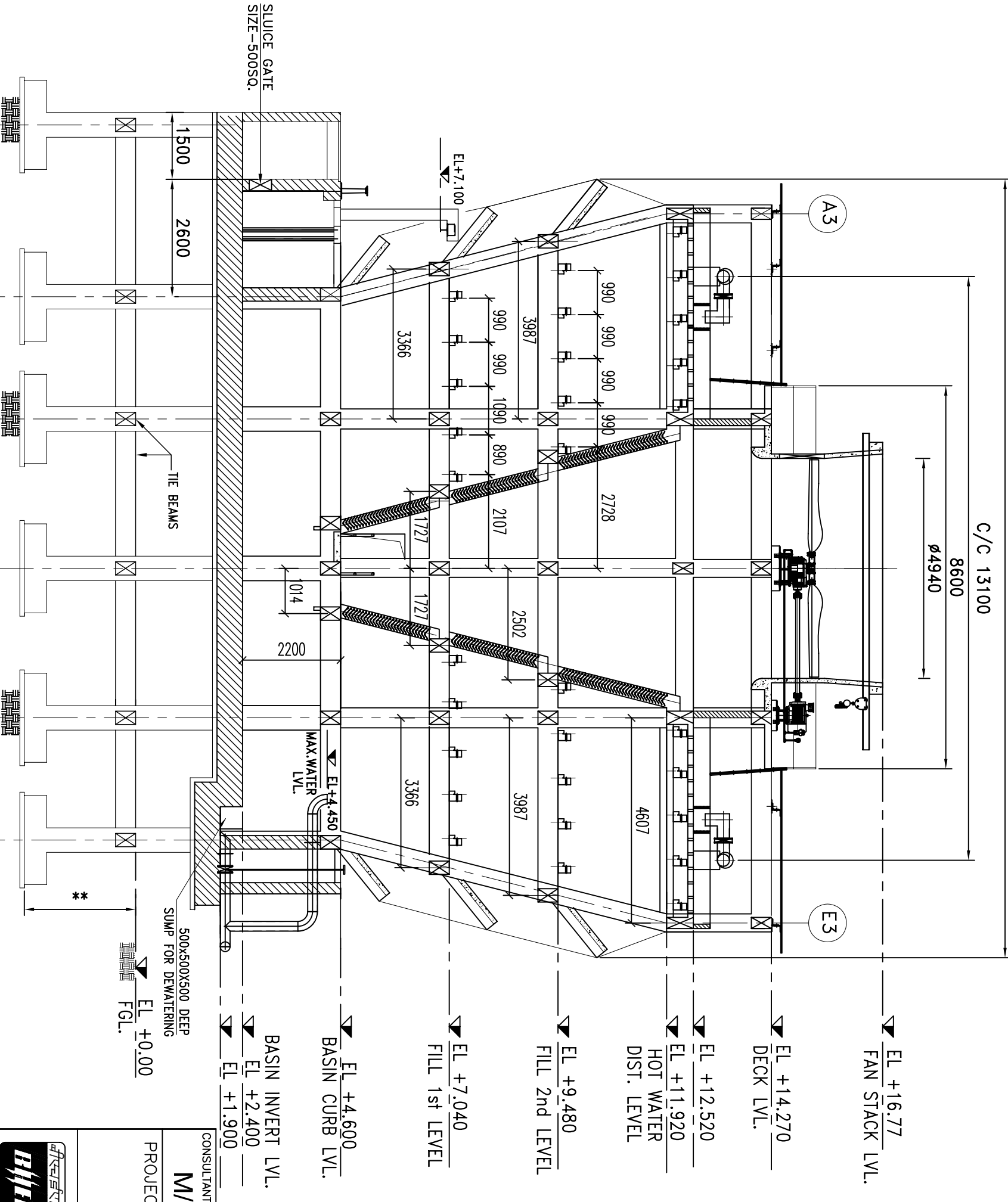
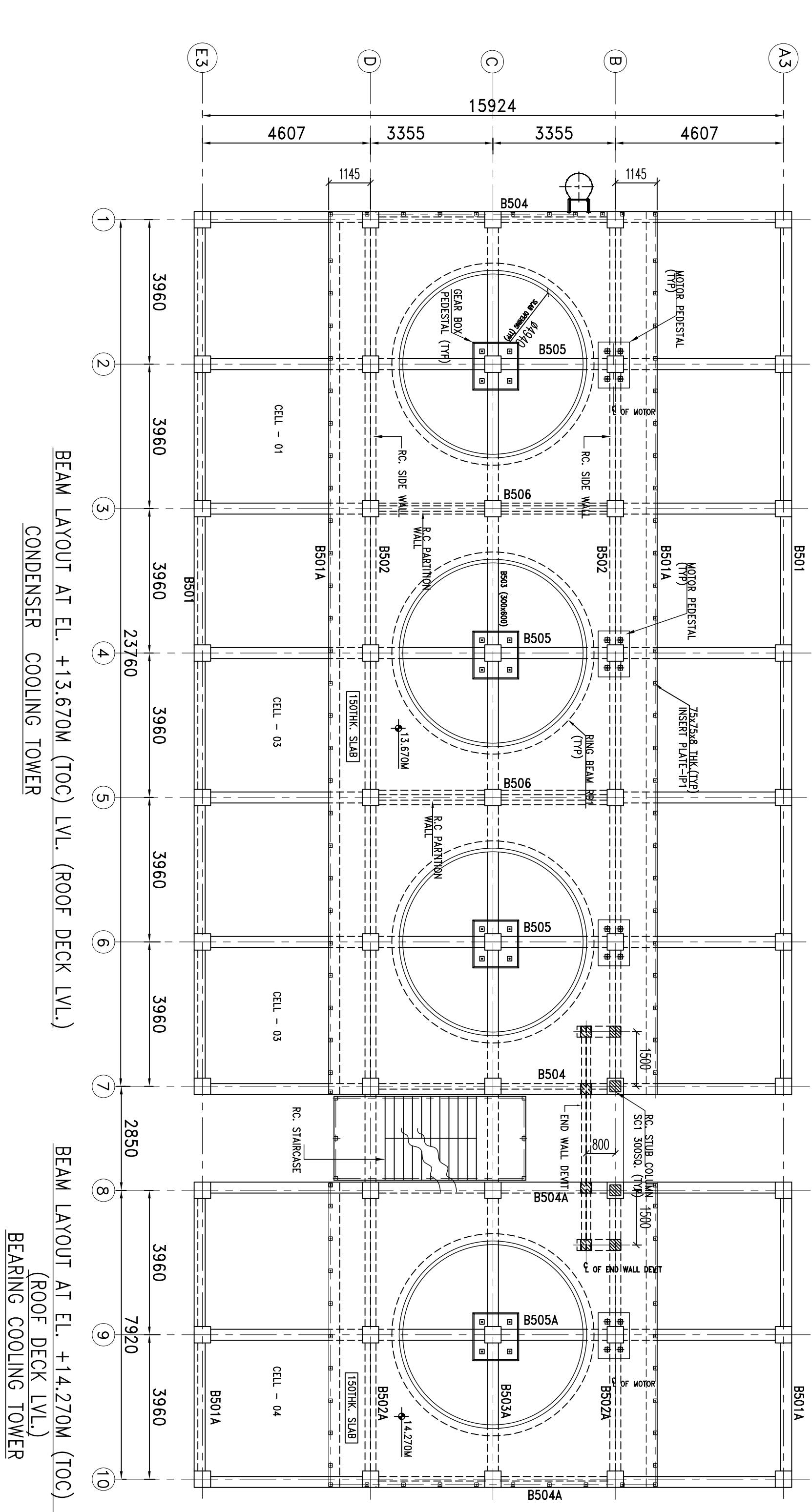
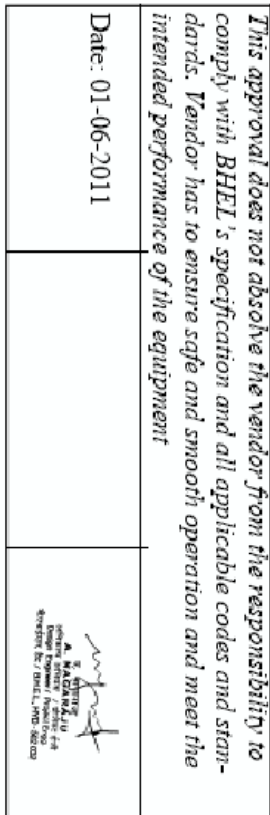
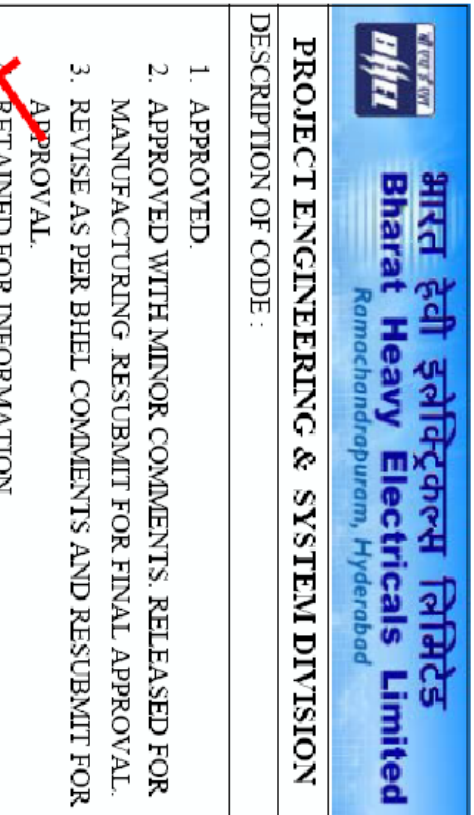
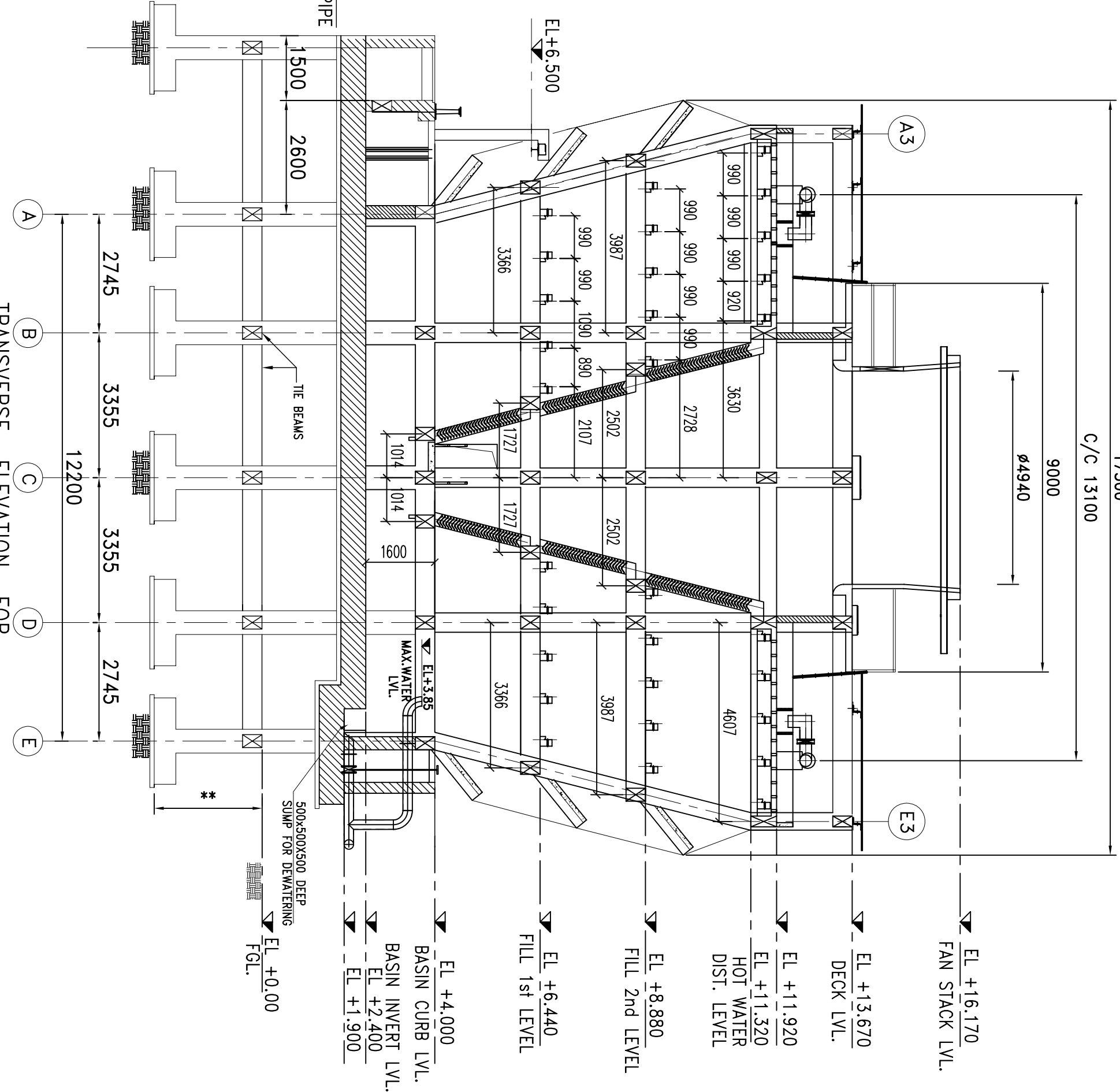
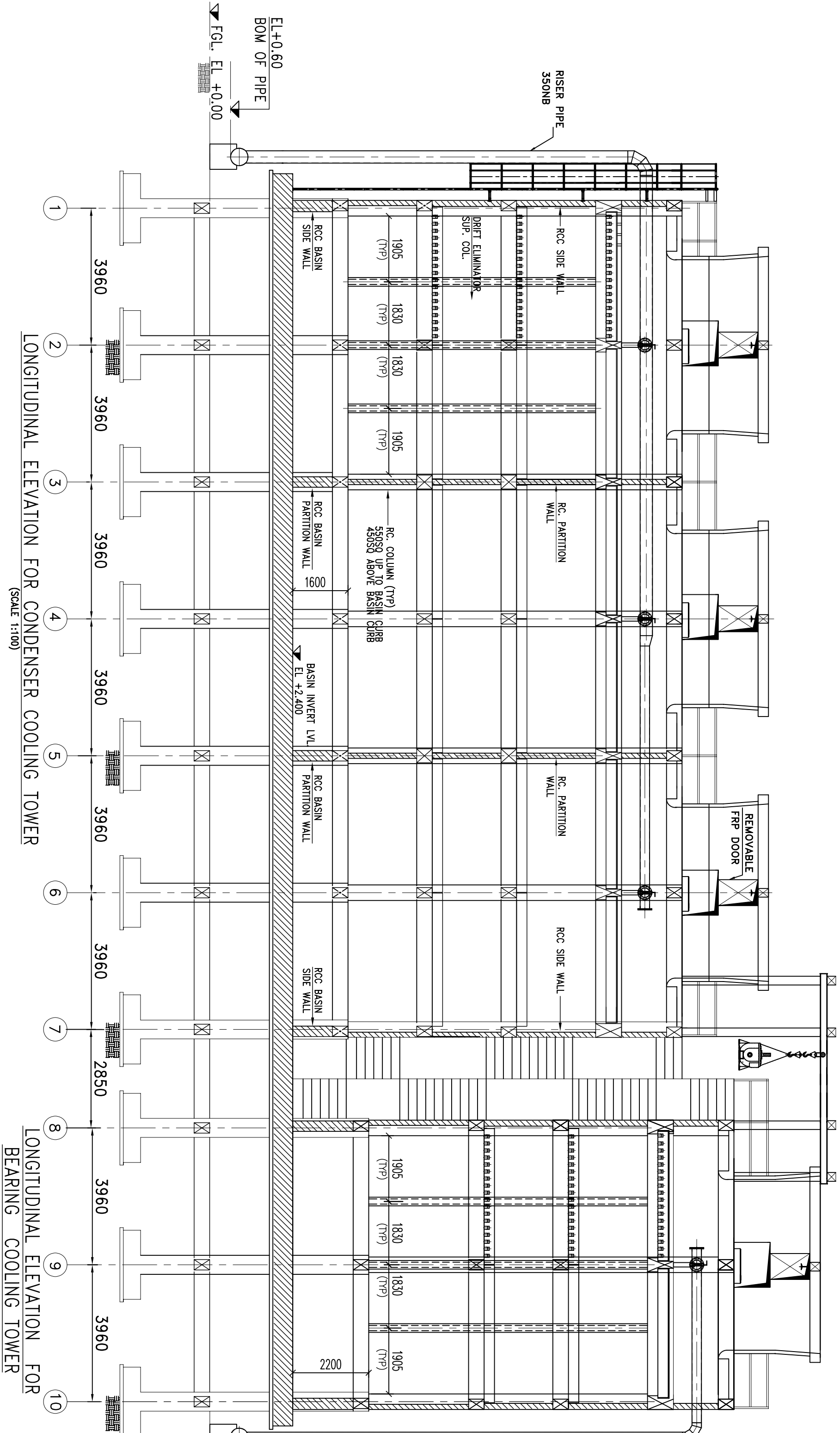
ROUT AT EL. +14.270M (TOC) LVL.
(ROOF DECK LVL.)
BEARING COOLING TOWER

BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

CIVIL GA.OF COOLING TOWER

RAMON SHRIRAM COTTRELL PVT LTD.

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



Rev.No	DATE	DESCRIPTIONS	PREPARED	CHECKED	APPROVED
2	30.05.11	REVISED AS PER DETAILED DRAWINGS	SRU	DSM	DSM
1	24.03.11	REVISED AS PER BHLL COMMENTS	SRU	DSM	DSM
0	04.03.11	ISSUED FOR APPROVAL	SRU	DSM	DSM

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	C204525-H-004	
	SHEET NO. 2 OF 2	REVISION
	SHEET SIZE : A	

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS, ALL LEVELS ARE IN METERS
UNLESS OTHERWISE SPECIFIED.
2. SOIL BEARING CAPACITY (SBC) 19 T/SQ.M AT -2.50 M BELOW FGL
3. FGL +0.000 CORRESPONDS TO RL 143.0m

LEGEND:

FFL - FINISH FLOOR LEVEL
FGL - FINISH GROUND LEVEL

SPECIAL NOTE:

**** MARKED DEPTH OF OCCURRENCE OF HIGHLY WEATHERED ROCK IS TO BE FINALISED AT SITE.**

BEAM LAYOUT AT EL. +13.670M (TOC) LVL. (ROOF DECK LVL.)

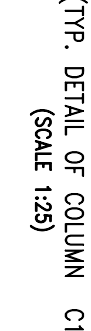
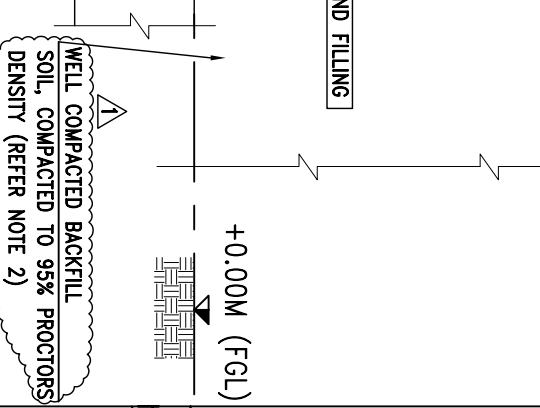
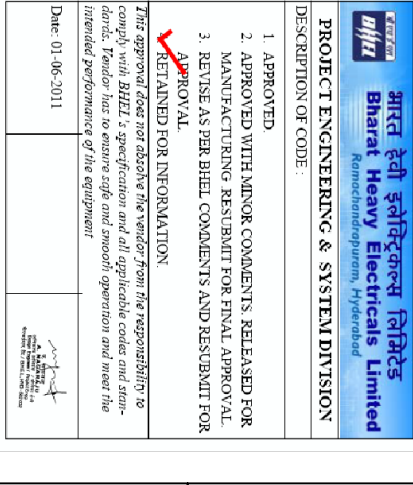
ROOF DECK LVL.)
BEARING COOLING TOWER

BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

CIVIL GA.OF COOLING TOWER

RAMON SHRIRAM COTTRELL PVT LTD.

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



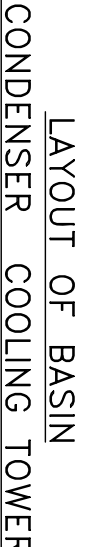
- CONSULTANT -

FINCHAA SUGAR FACTORY EXPANSION ETHIOPIA.

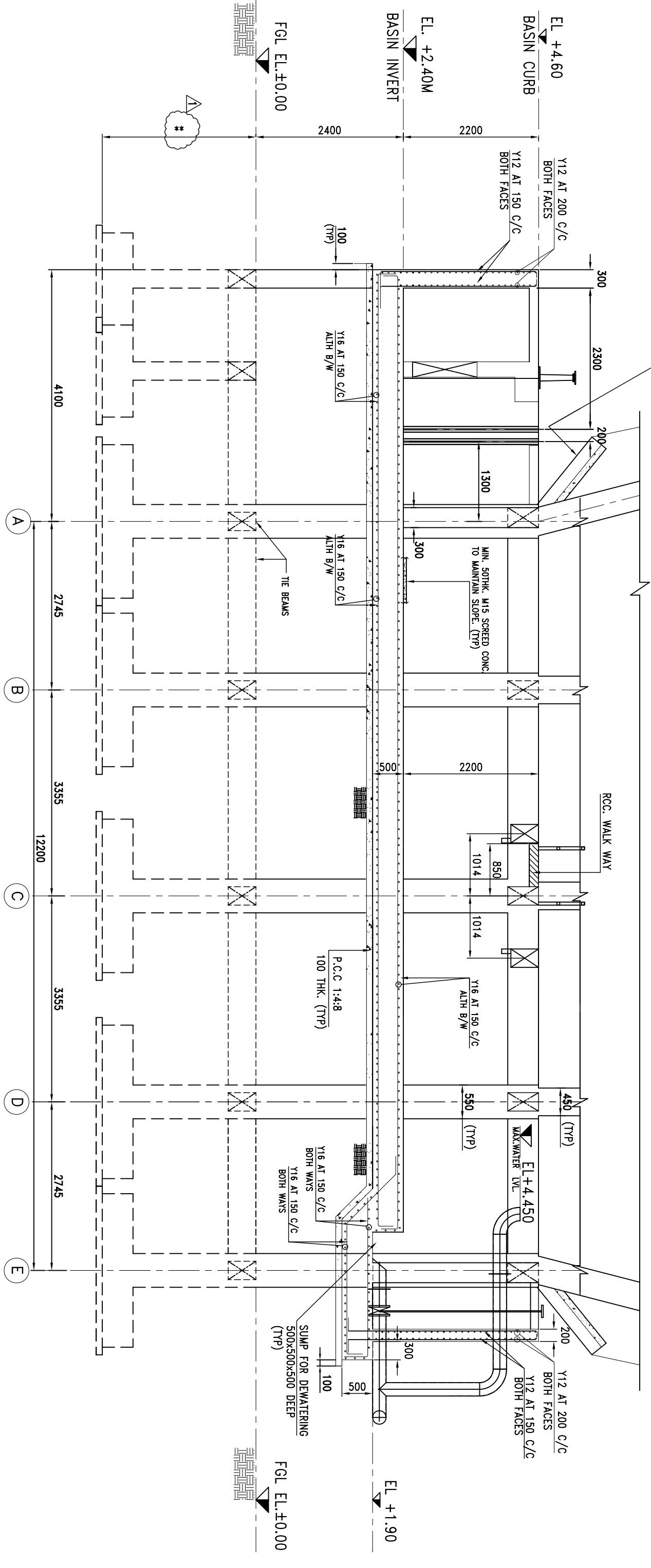
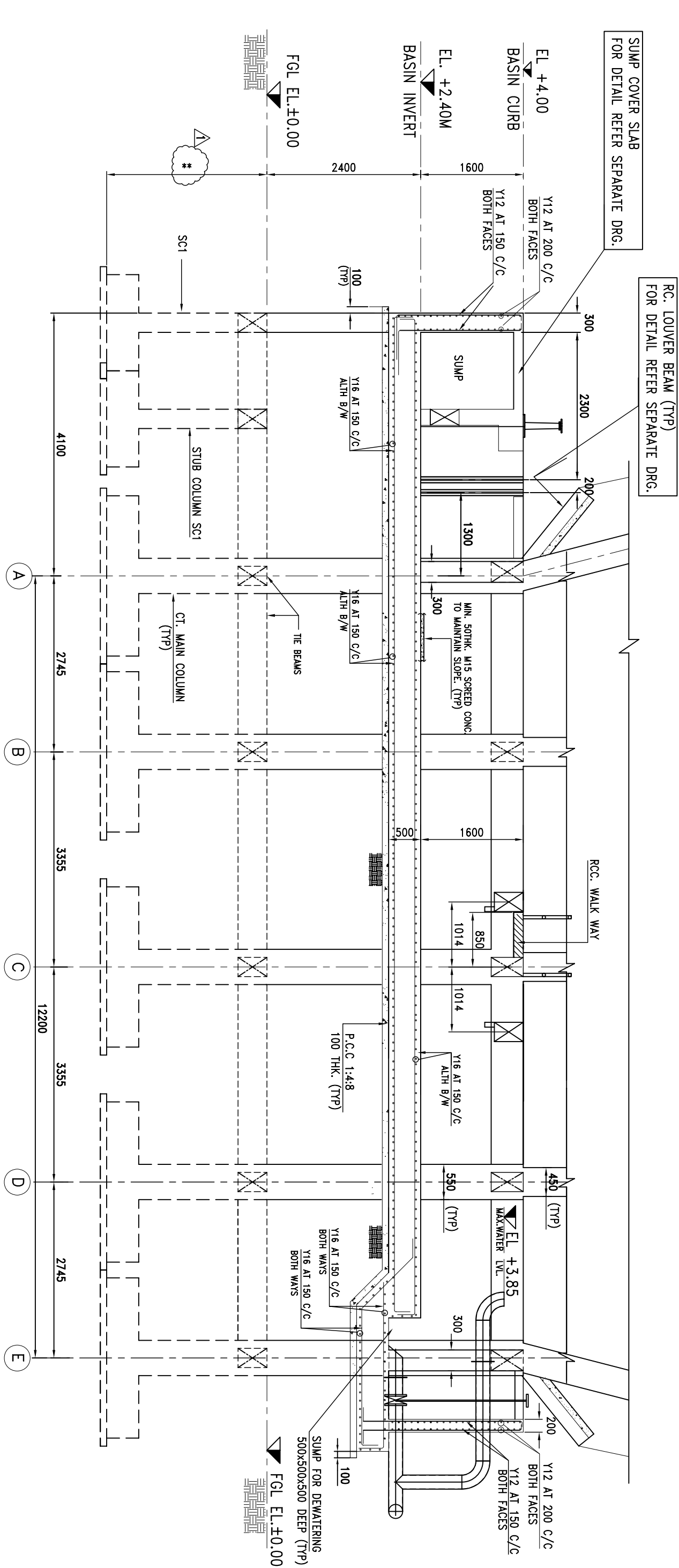
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Rev.No	DATE
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SPECIAL NOTE:



* MARKED CO ORDINATE TO BE FURNISH BY BHEL



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS, AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. GRADE OF CONCRETE SHALL BE M35.
3. 'Y' DENOTES HIGH YIELD STRENGTH HAVING YIELD STRENGTH NOT LESS THAN 460 N/mm² CONFORMING TO IS 1786-1985.
4. CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:
 - (a) FOR FOOTING 50
 - (b) FOR COLUMN 50
 - (c) FOR BEAM 50
 - (d) FOR SLAB 30
 - (e) FOR WALLS 50
 - (f) FOR DECK 45
5. LAP LENGTH SHALL BE 50d, UNLESS NOTED OTHERWISE IN THE DRAWINGS.
6. SUITABLE ADJUSTMENTS IN REINFORCEMENT PLACING MAY BE MADE AT SITE TO CLEAR POCKETS, ANCHOR BOLTS ETC., AS APPROVED BY THE ENGINEER AT SITE.
7. SOIL BEARING CAPACITY (SBC) 19.1750 M AT -2.50 M BELOW FGL CONSIDERED (HIGHLY WEATHERED ROCK IMMEDIATELY BENEATH THE RED CLAY)
8. FGL +0.000 CORRESPONDS TO RL 1439.0m
9. THIS Dwg. SHALL BE READ IN CONJUNCTION WITH SPECIFICATION OF CONTRACT.
10. INTERNAL SURFACE OF COOLING TOWER BASIN SHALL BE APPLIED WITH 25mm THK 1:3 CEMENT SAND MORTAR WITH APPROVED WATER PROOFING AD MIXTURE.

SPECIAL NOTE:

** MARKED DEPTH OF OCCURENCE OF HIGHLY WEATHERED ROCK IS TO BE FINALISED AT SITE.

भारत भारती इलेक्ट्रिकल्स लिमिटेड Bharat Heavy Electricals Limited A MAJOR COMPANY OF THE PUBLIC SECTOR	
PROJECT ENGINEERING & SYSTEM DIVISION	
DESCRIPTION OF CODE	
1. APPROVED	
2. APPROVED WITH MINOR COMMENTS RELEASED FOR MANUFACTURING RESISTANT FOR FINAL APPROVAL	
3. REVISE AS PER BHEL COMMENTS AND RESUBMIT FOR APPROVAL	
4. RETAINED FOR INFORMATION	
The approval does not absolve the engineer from the responsibility to design, produce and maintain safe and sound operation and meet the intended performance of the equipment	
Date: 01-06-2011	

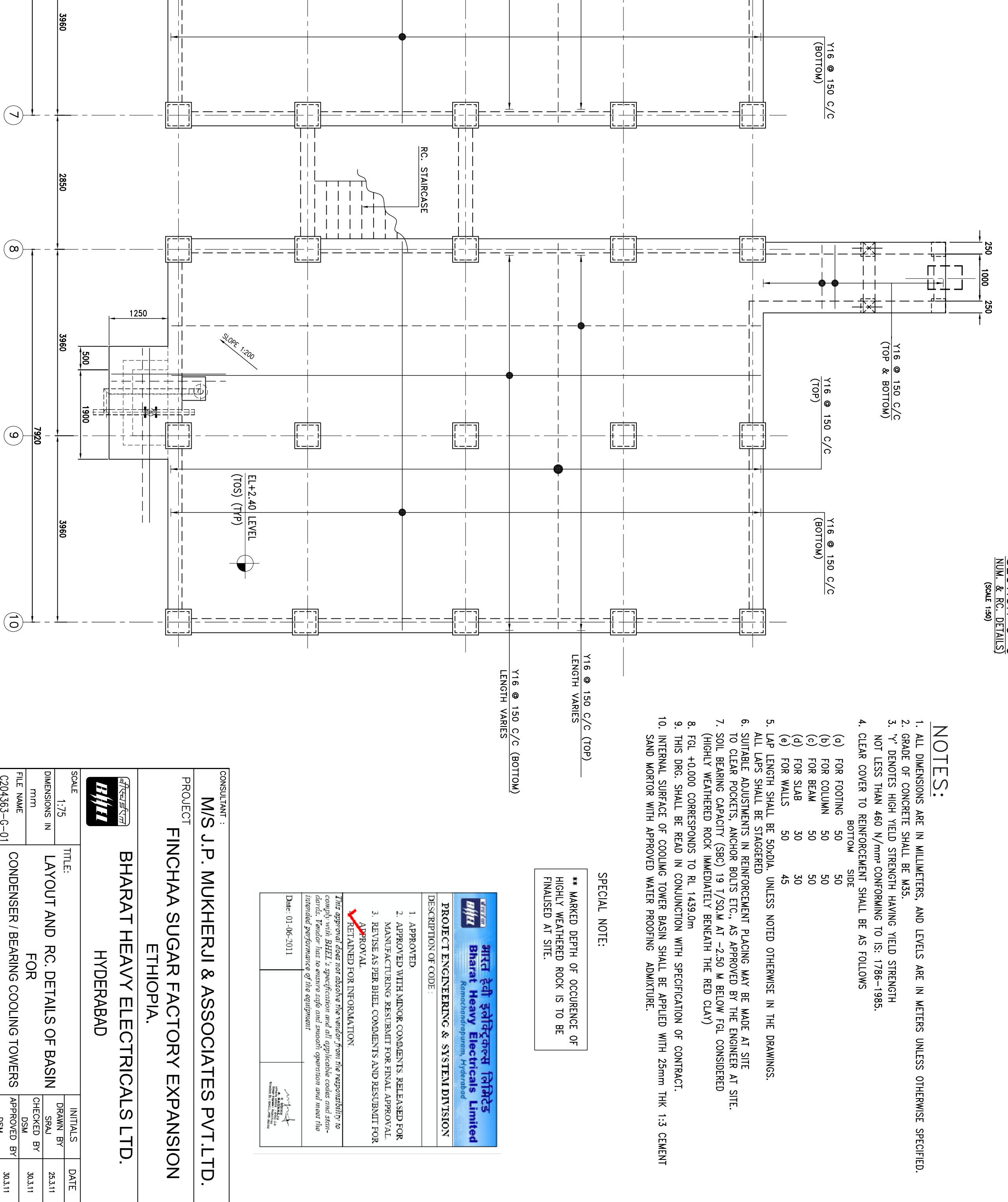
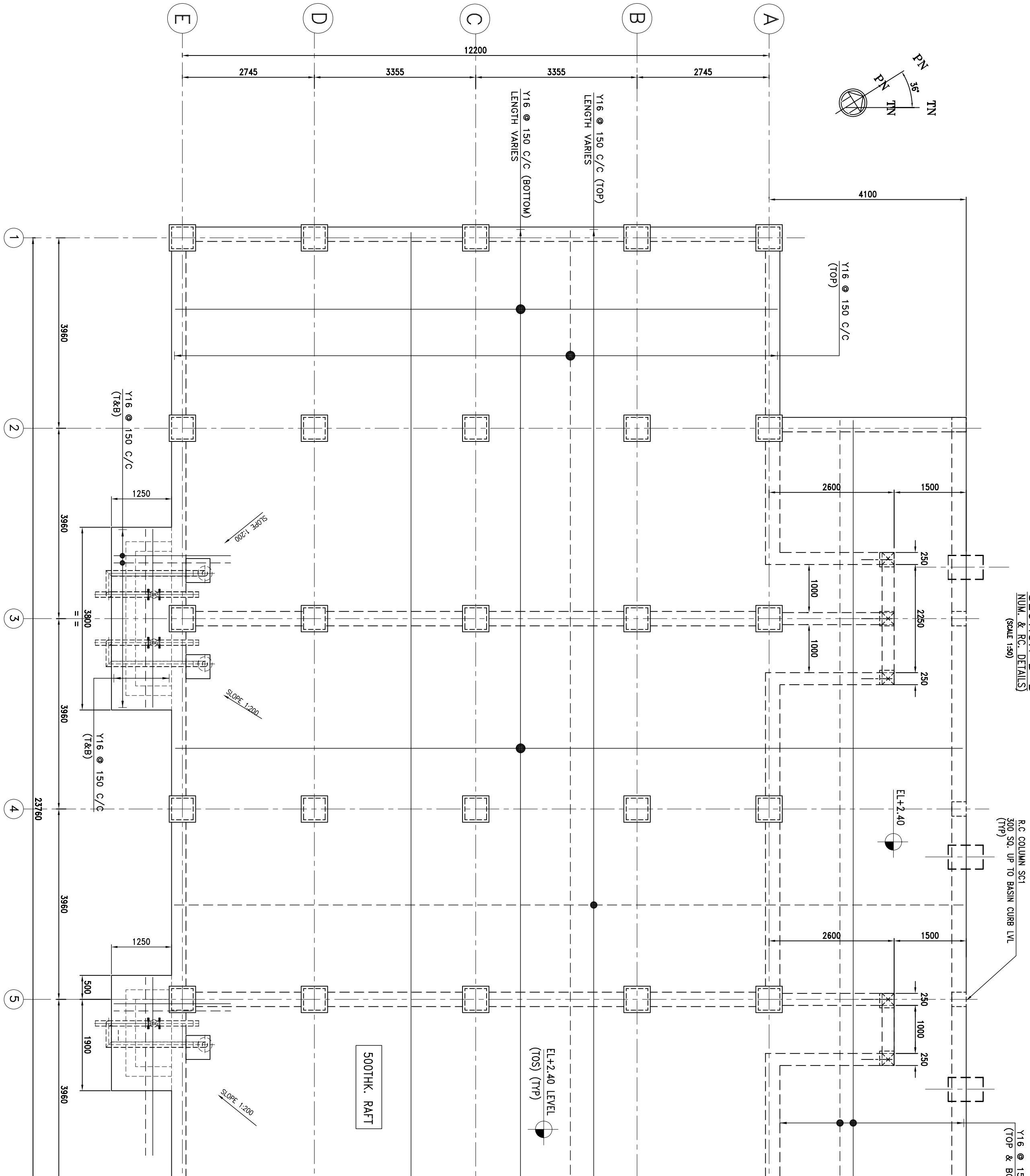
CONSULTANT : **M/S J.P. MUKHERJI & ASSOCIATES PVT.LTD.**
PROJECT : **FINCHAA SUGAR FACTORY EXPANSION ETHIOPIA.**

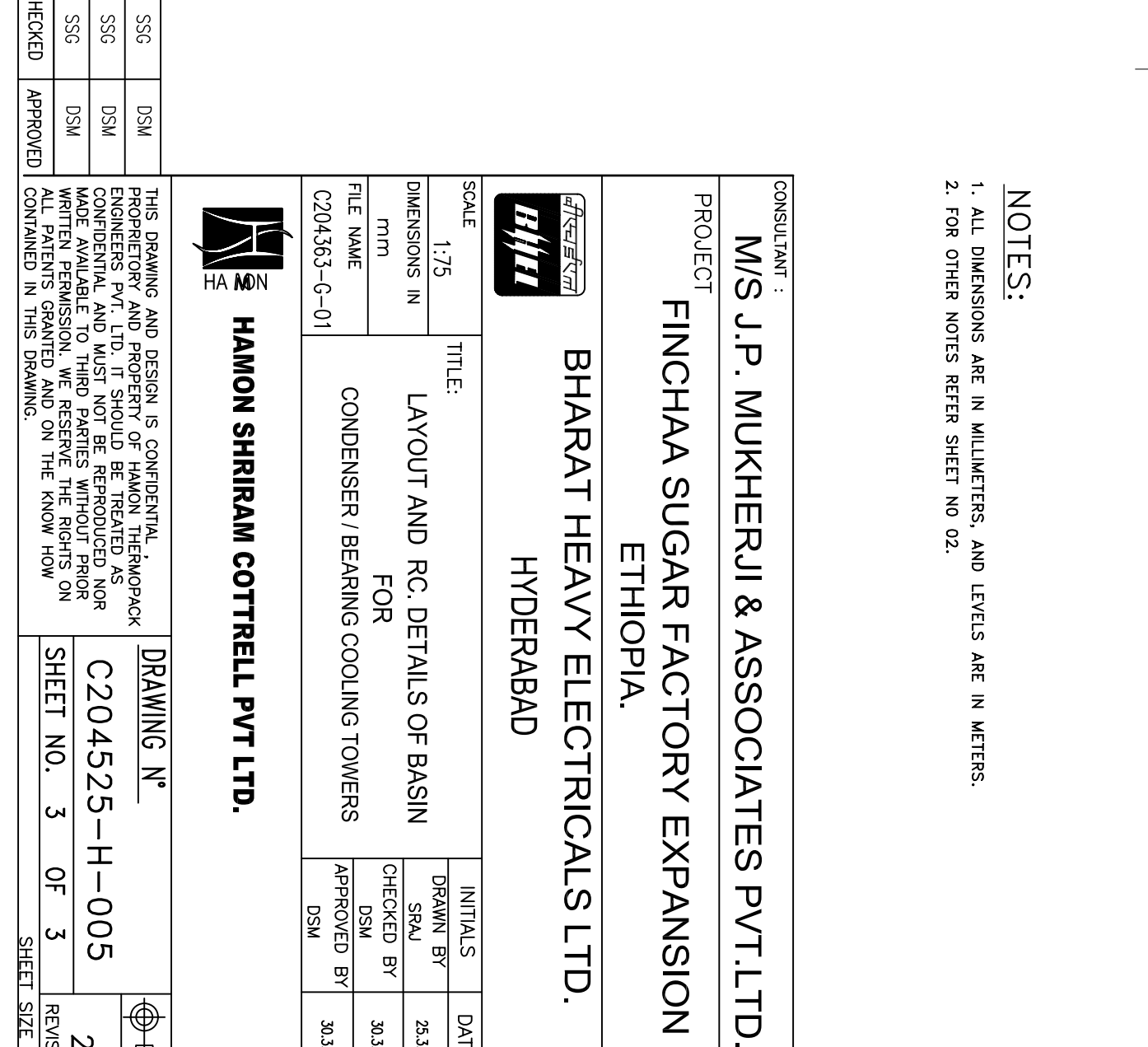
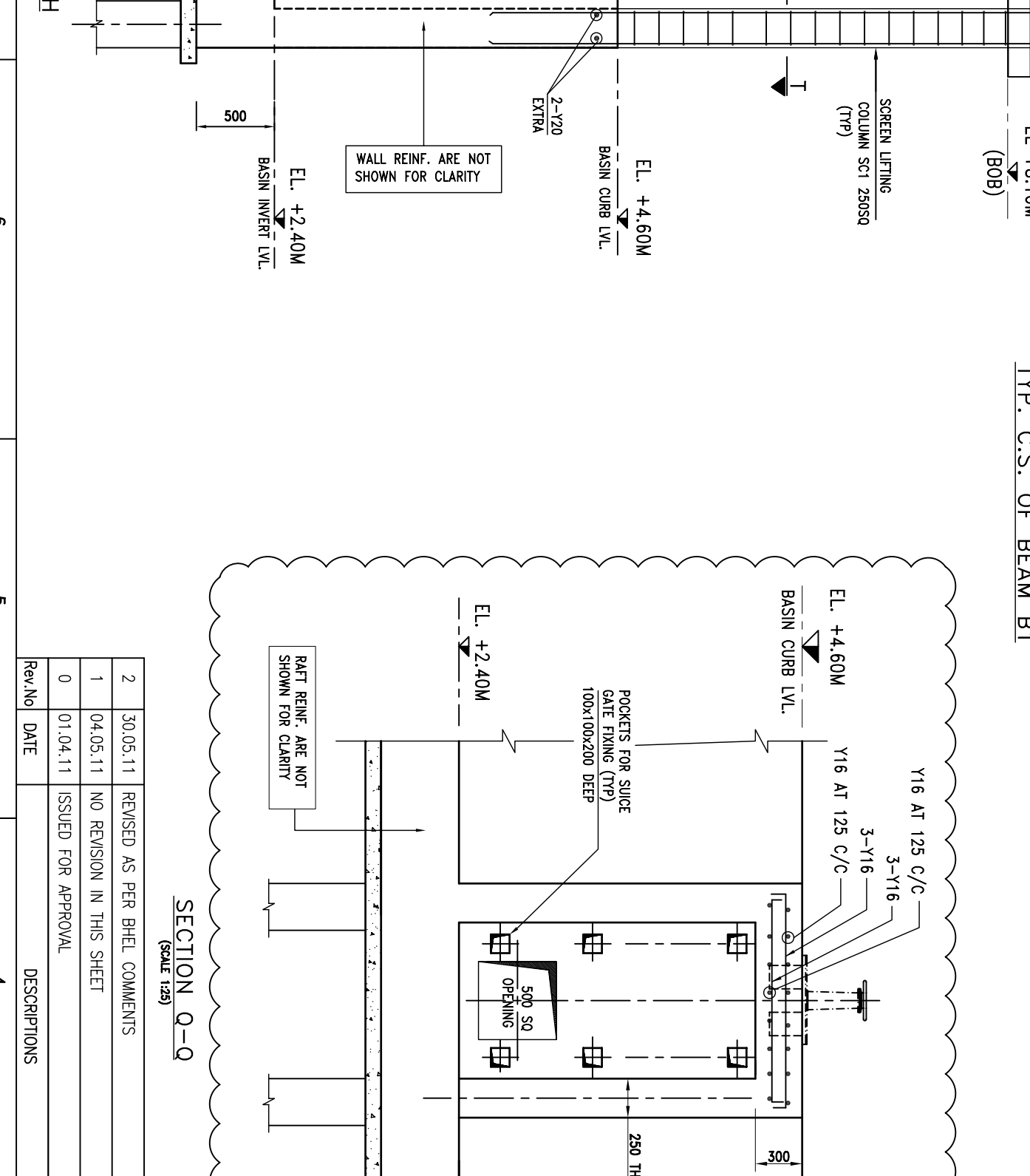
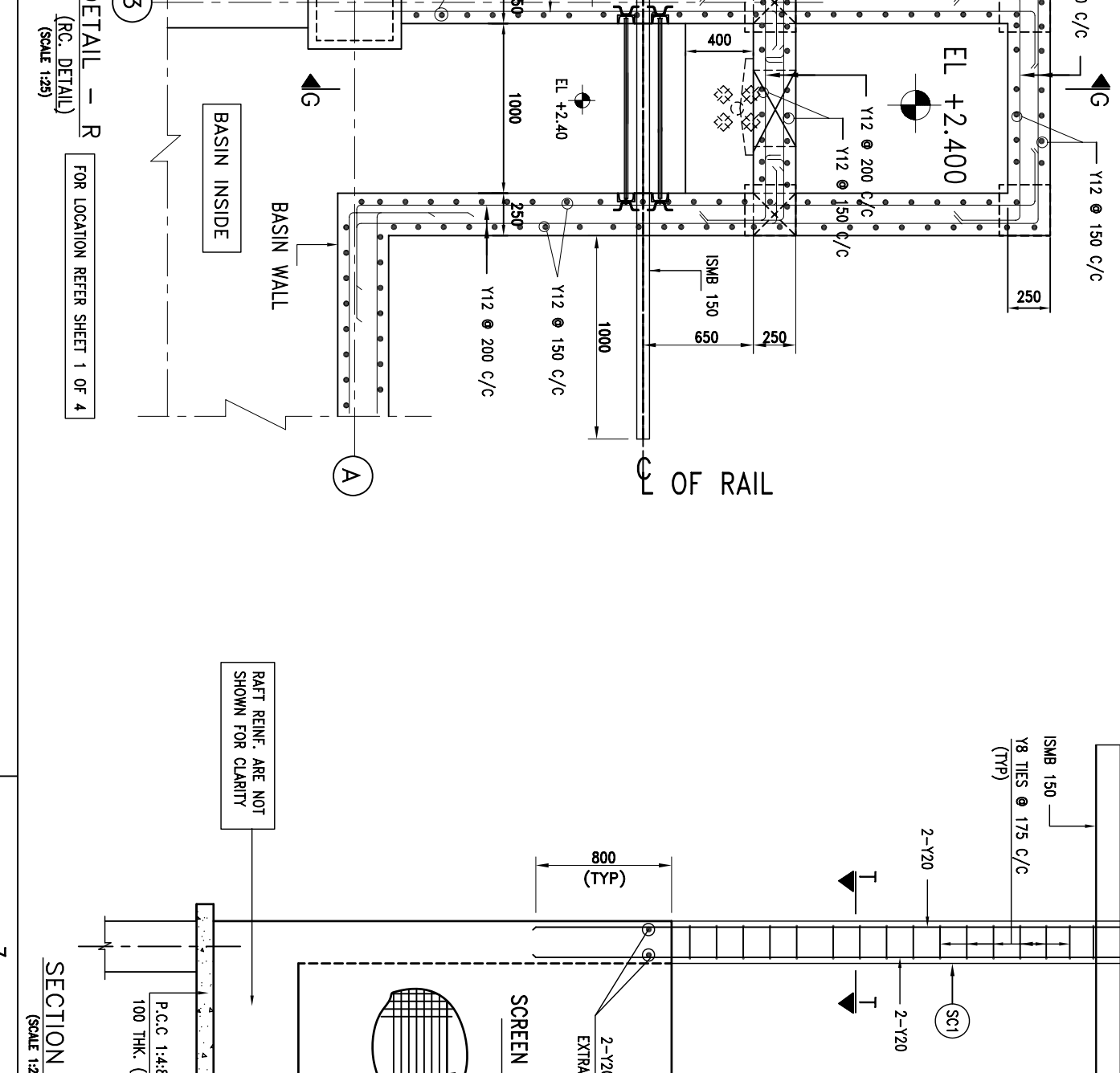
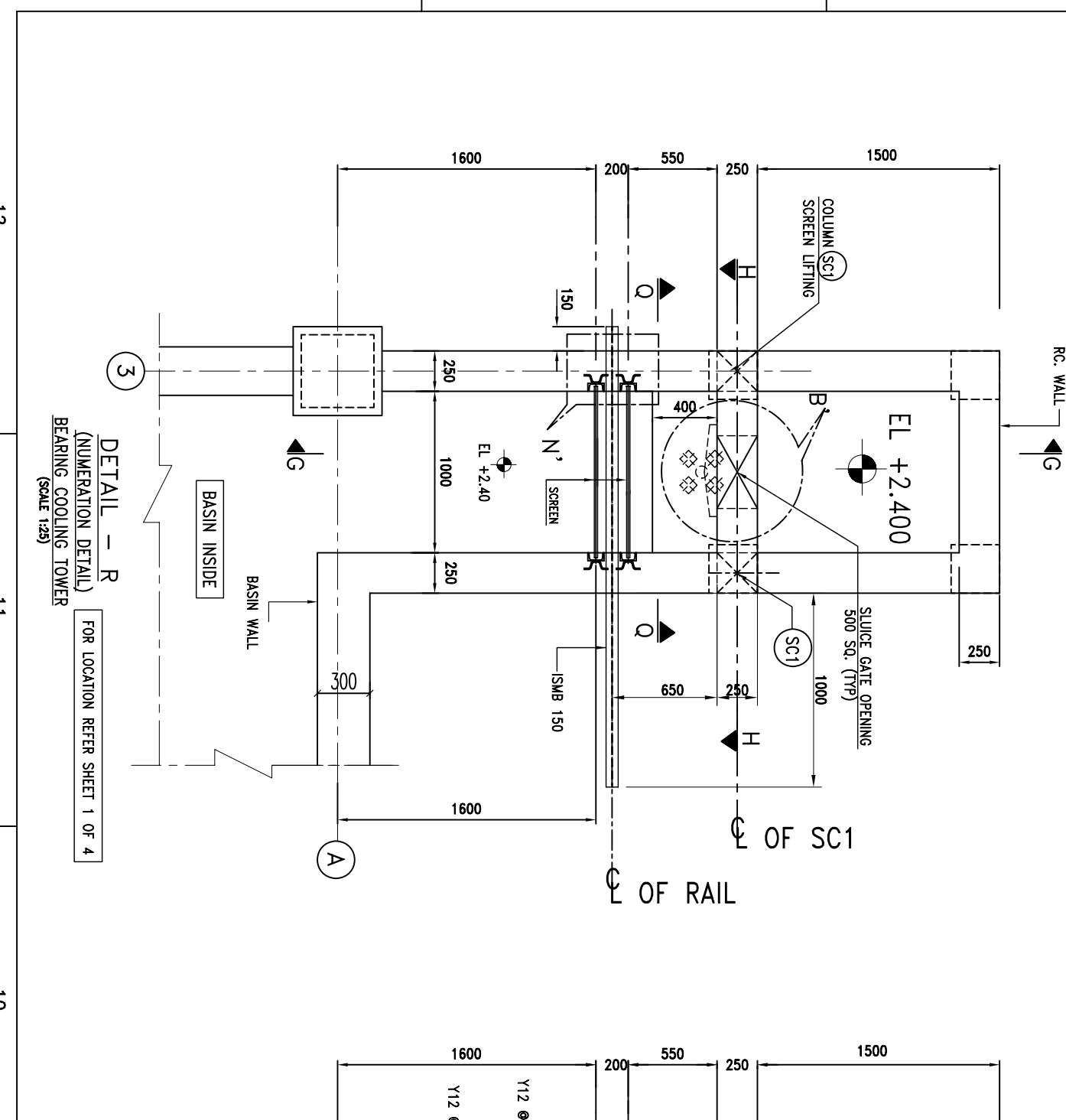
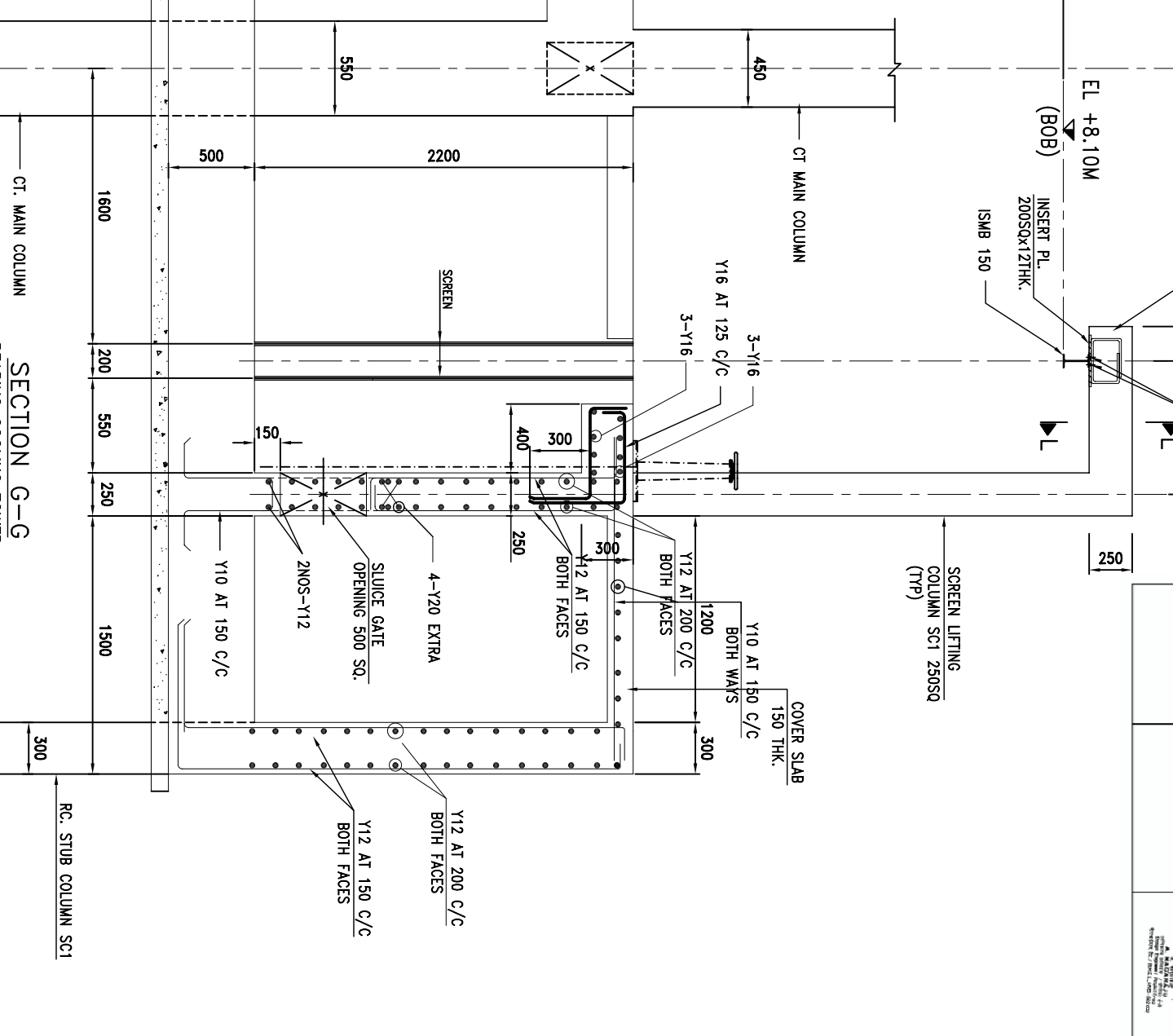
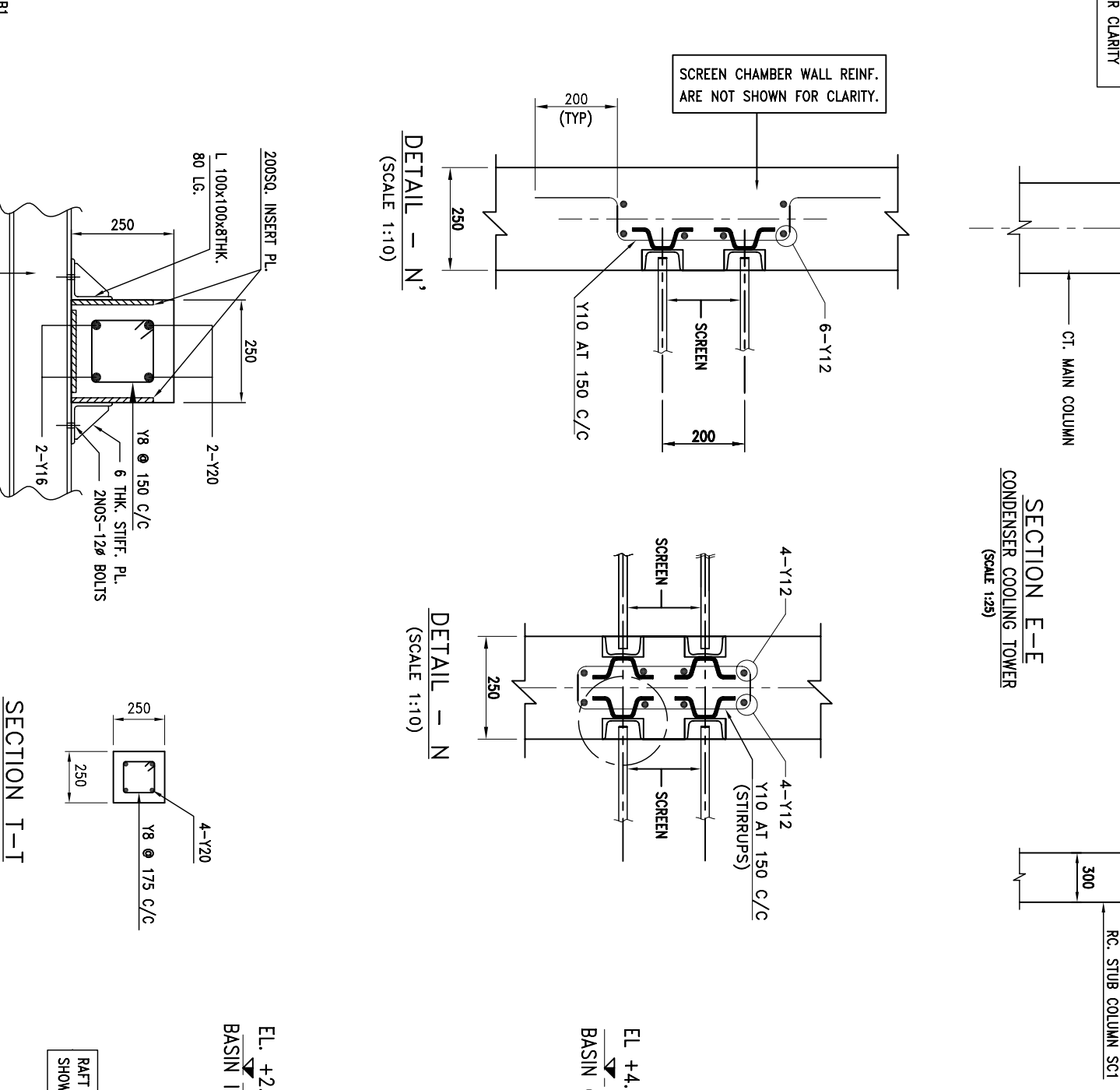
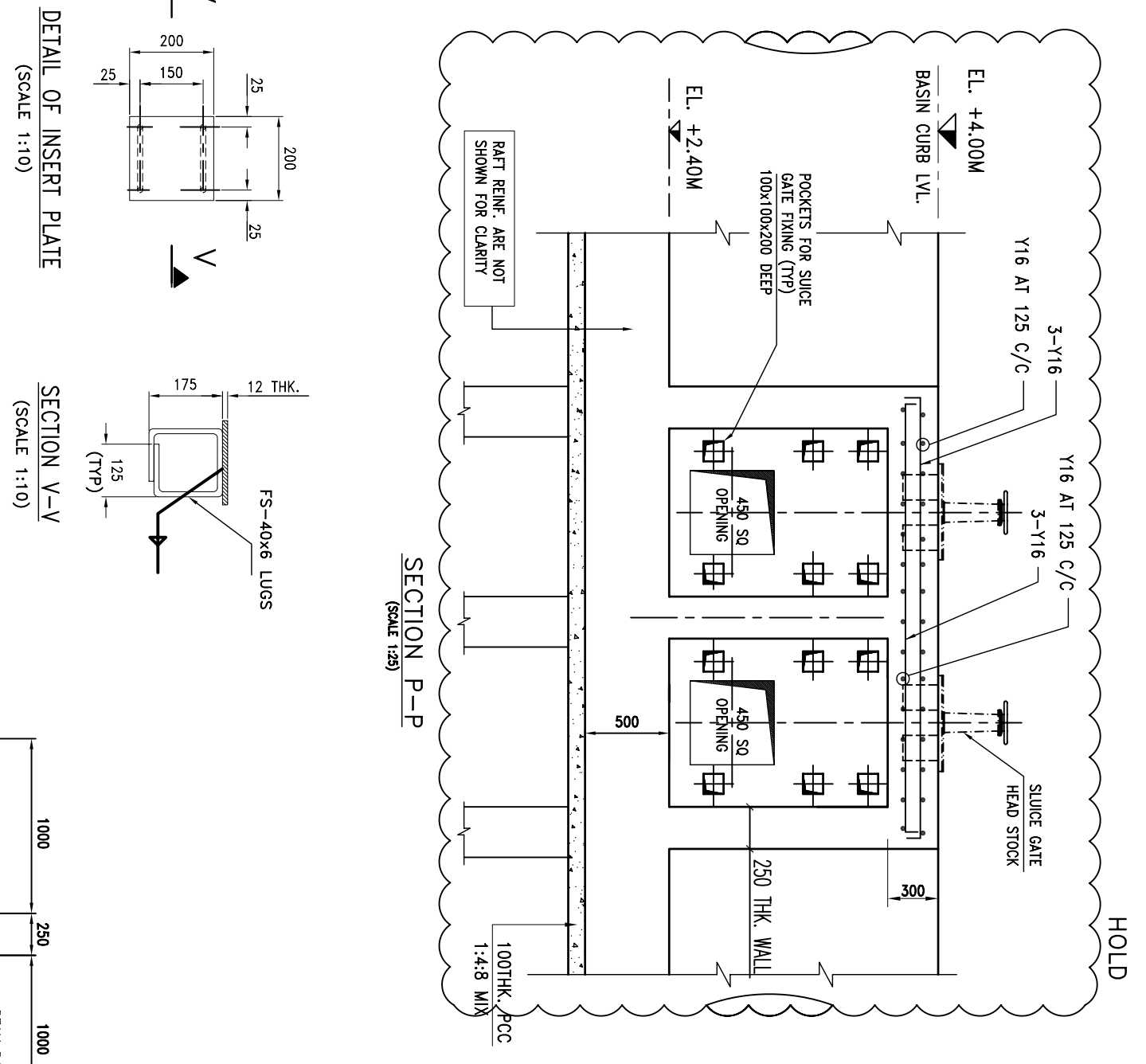
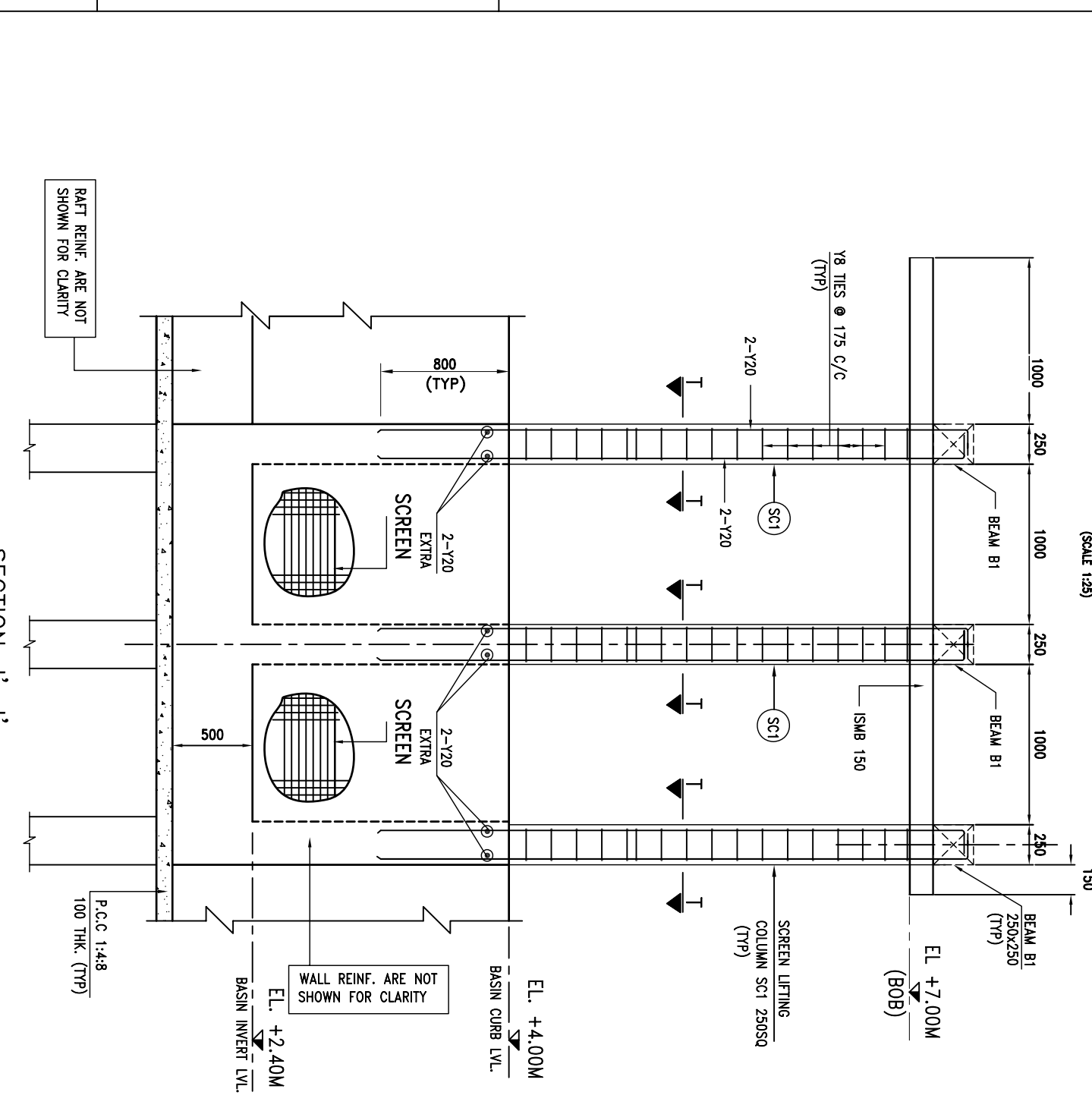
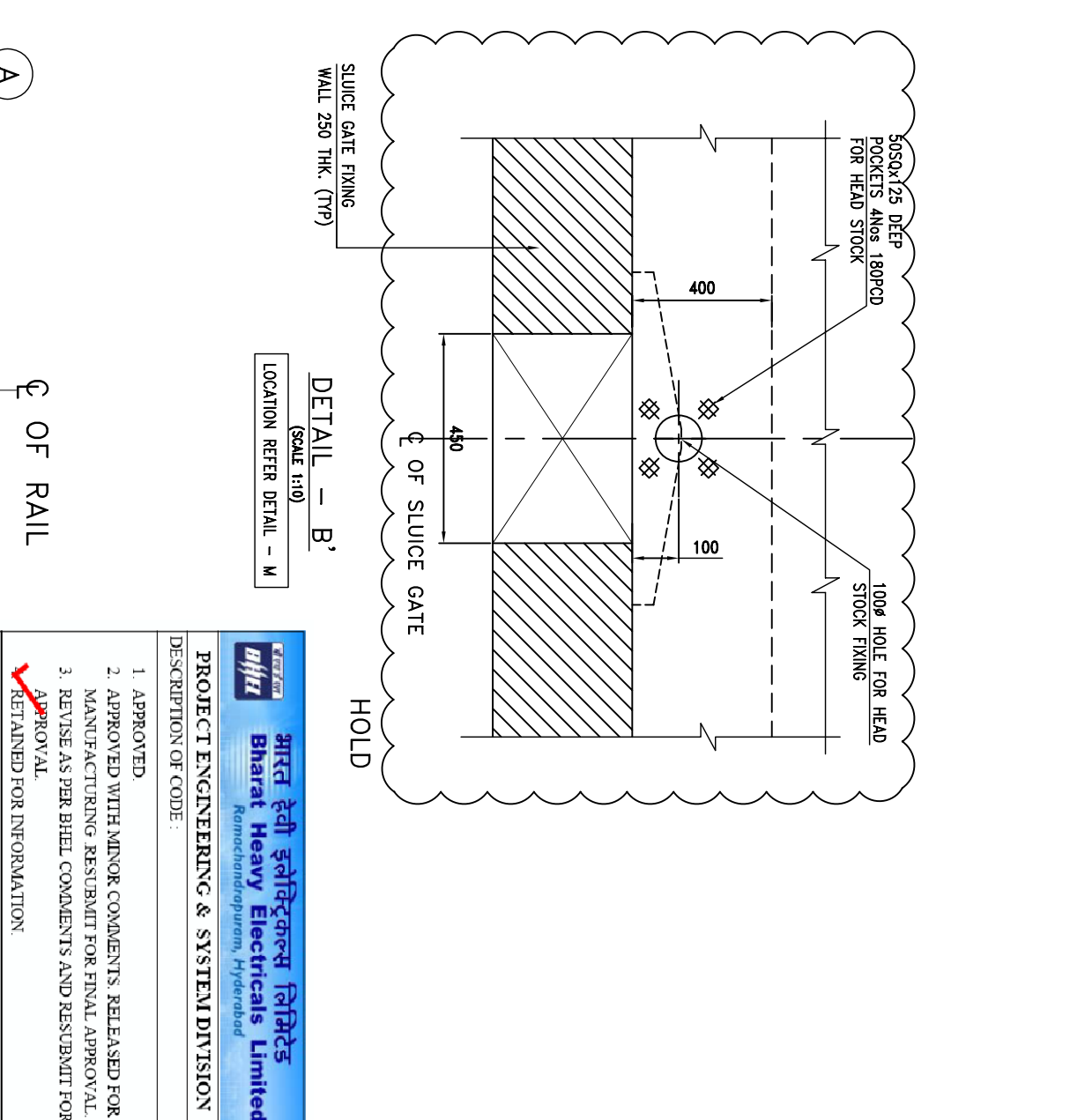
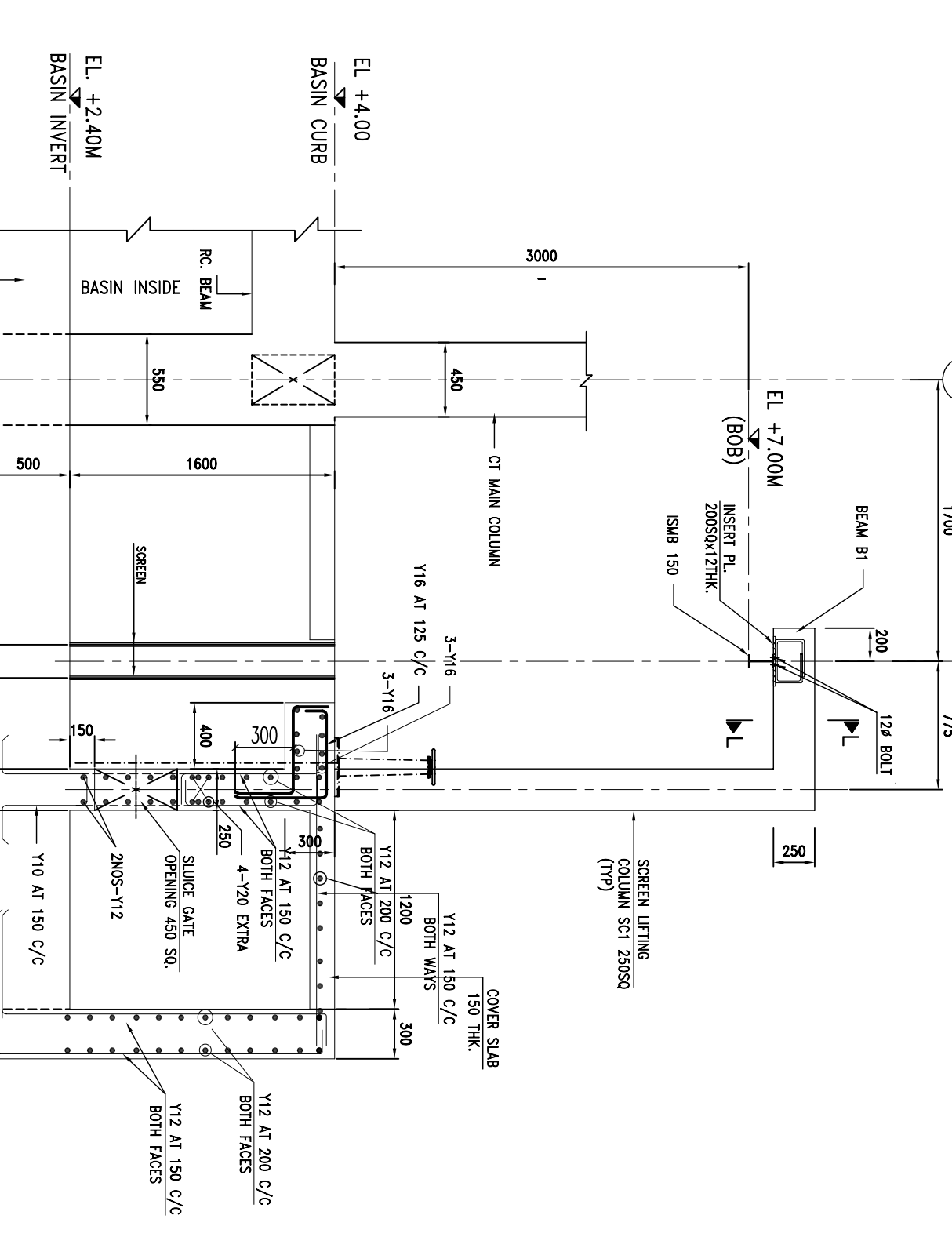
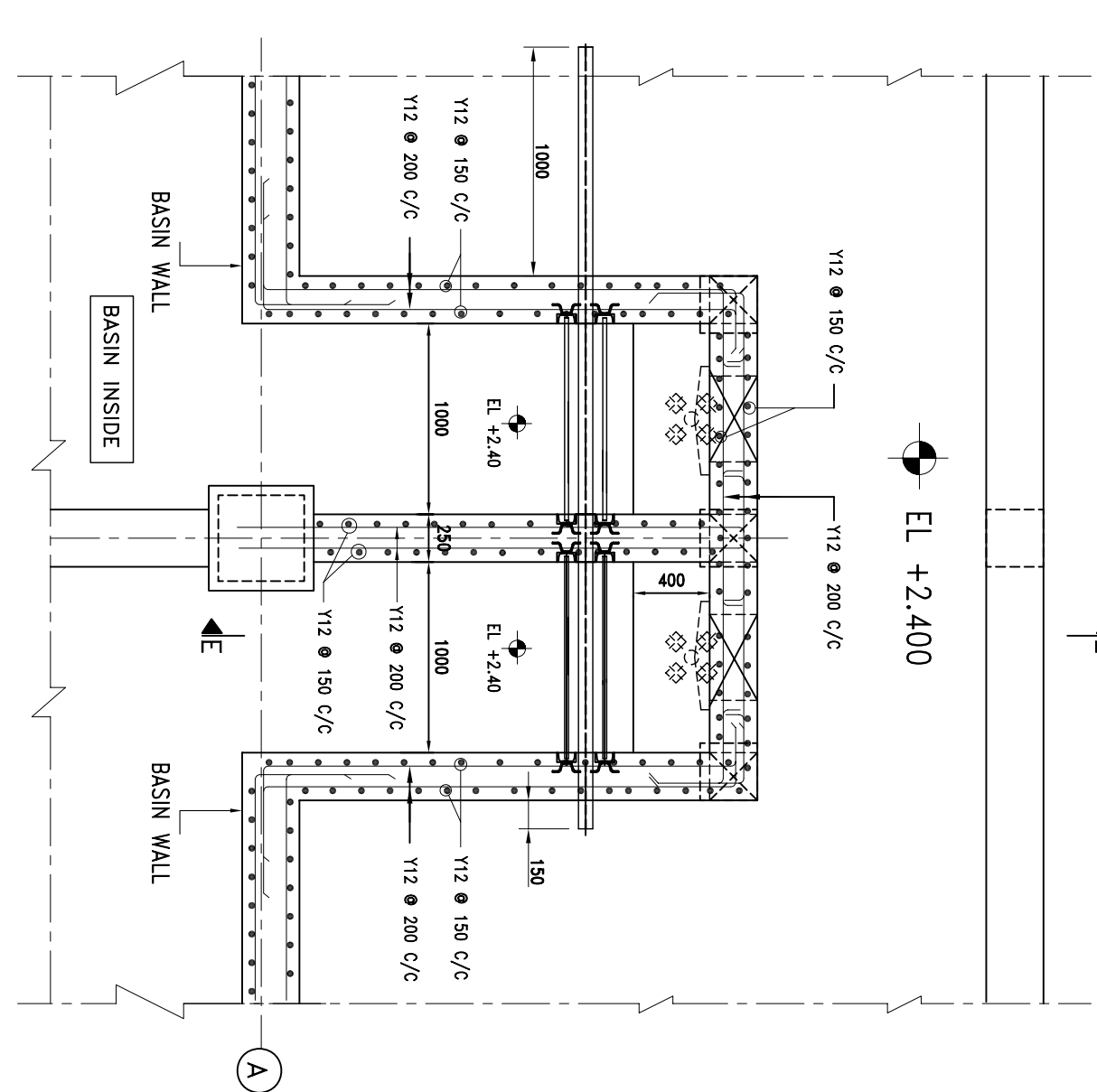
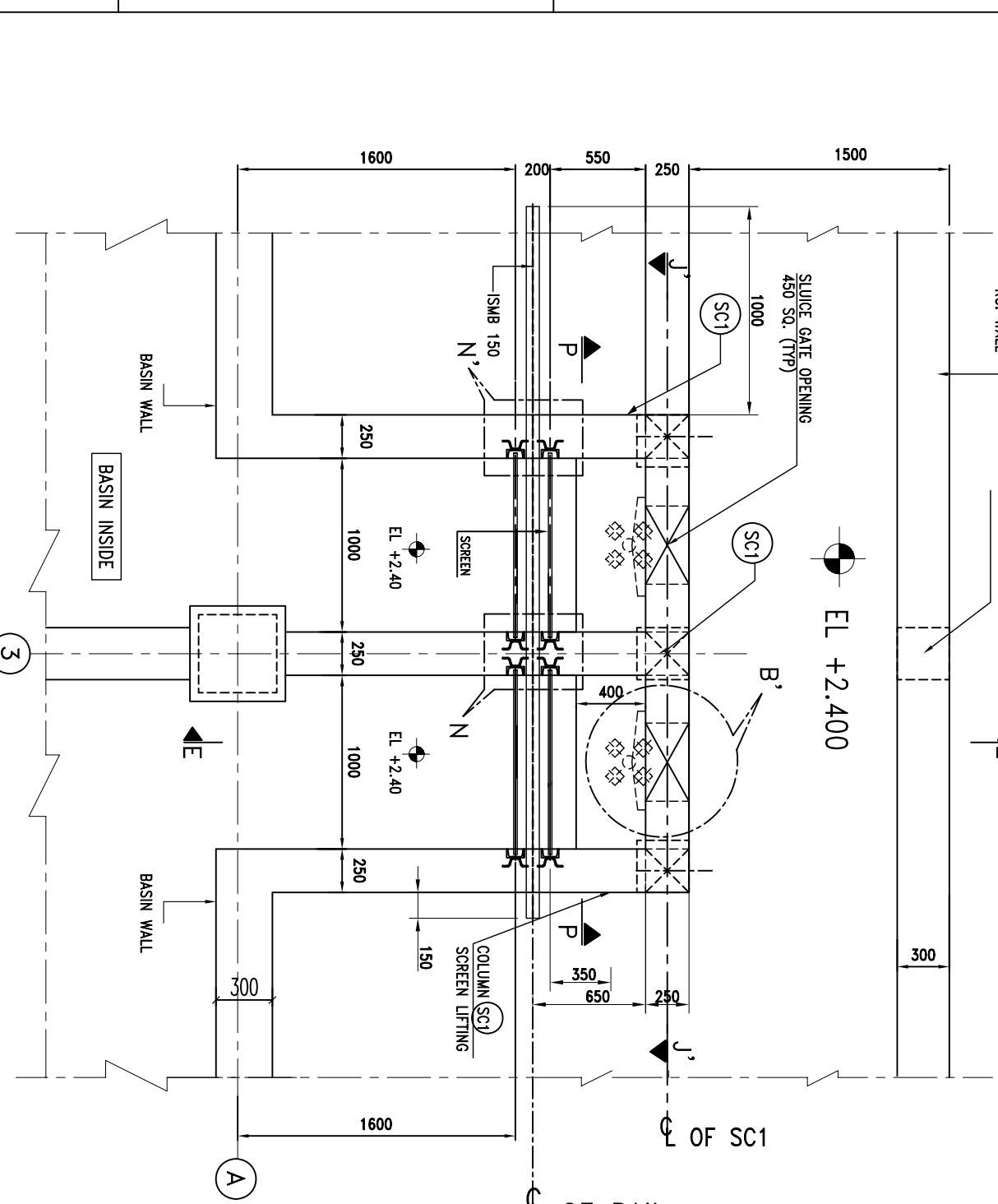
BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

SCALE	TITLE:	INITIALS	DATE
1:75	LAYOUT AND RC DETAILS OF BASIN	DSM	25.11
DIMENSIONS IN	FOR	CHECKED BY	30.11
MM	CONDENSER / BEARING COOLING TOWERS	DSM	30.11
FILE NAME		APPROVED BY	
C204325-G-01		DSM	

HAMON SHIRAM COTTRELL PVT.LTD.

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		SHEET NO.	2 OF 3
		REVISION	
		DATE	25.11





NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS, AND LEVELS ARE IN METERS.
2. FOR OTHER NOTES REFER SHEET NO 02.

CONSULTANT :
M/S J.P. MUKHERJI & ASSOCIATES PVT.LTD.

PROJECT :
FINCHAA SUGAR FACTORY EXPANSION
ETHIOPIA.

BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

SCALE :
1:75
1:50
1:20
1:10
1:5
1:2
1:1

TITLE :
LAYOUT AND RC DETAILS OF BASIN
CONDENSER/ BEARING COOLING TOWERS

FILE NAME :
C204525-G-01

INITIALS :
DRN: BT
CHK: BT
APP: BT
DSM: BT

DATE :
23.11
30.11
30.11

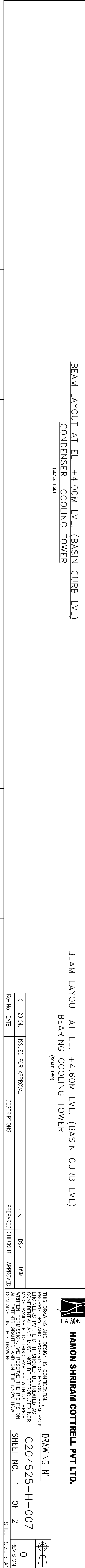
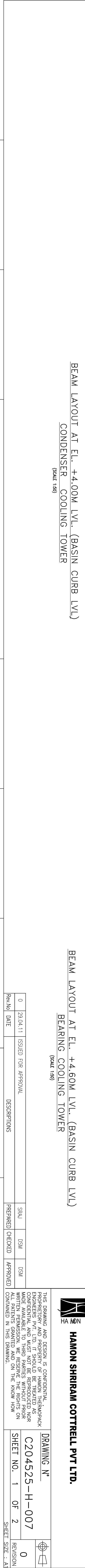
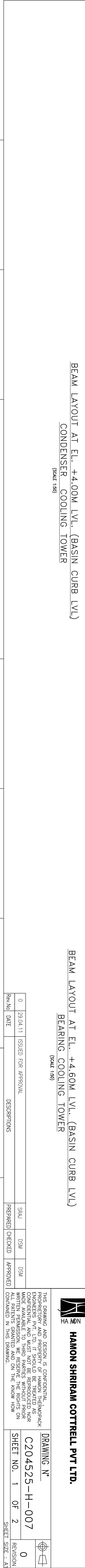
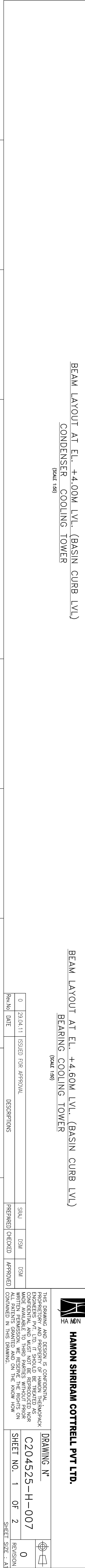
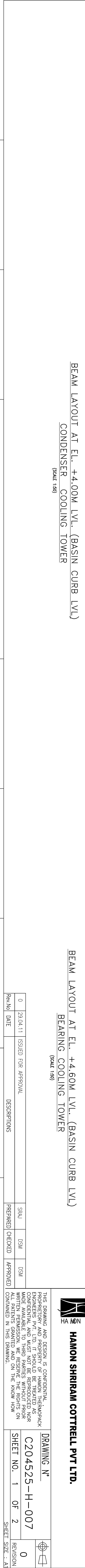
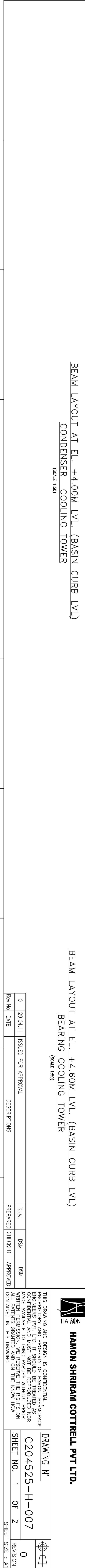
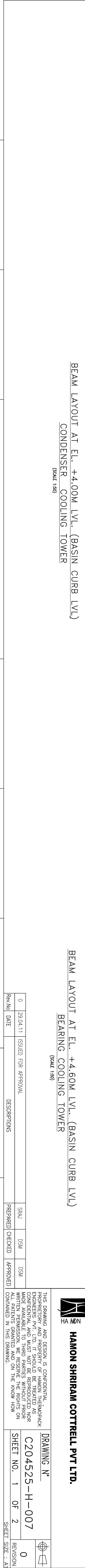
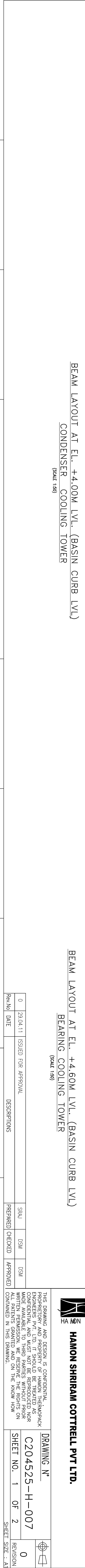
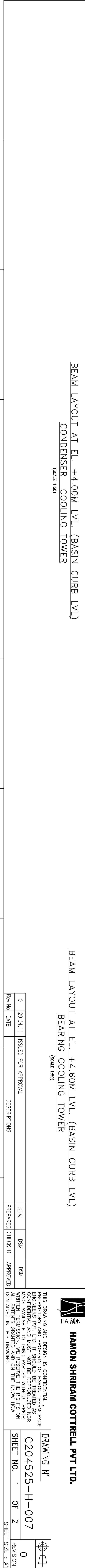
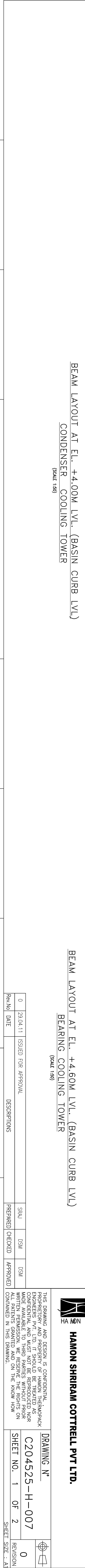
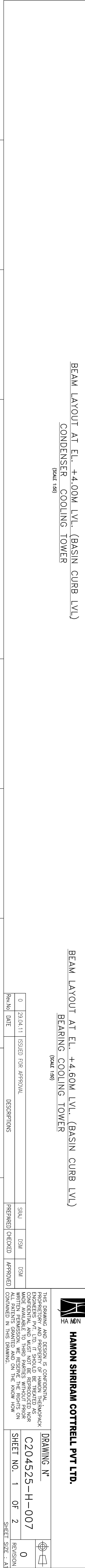
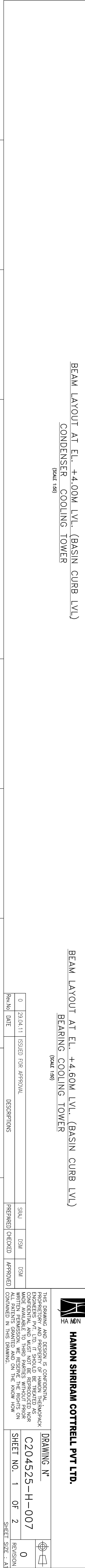
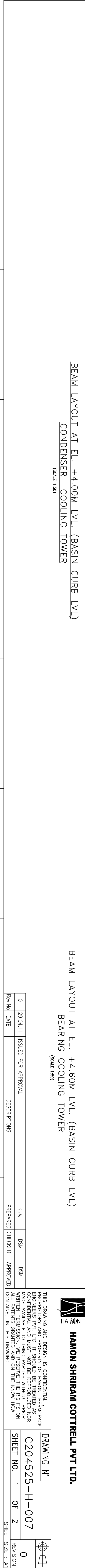
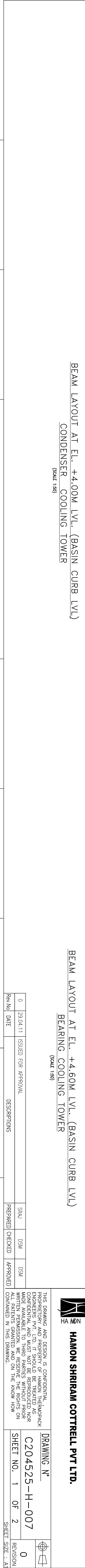
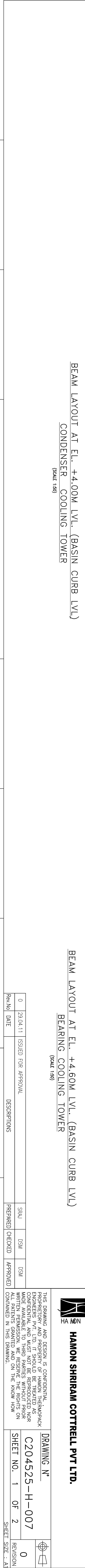
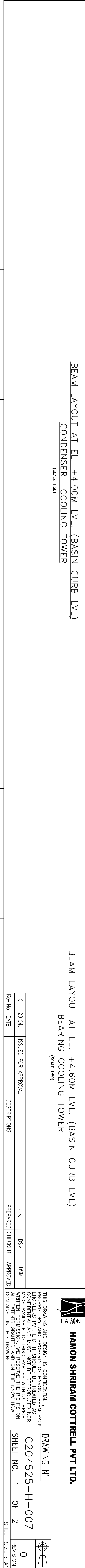
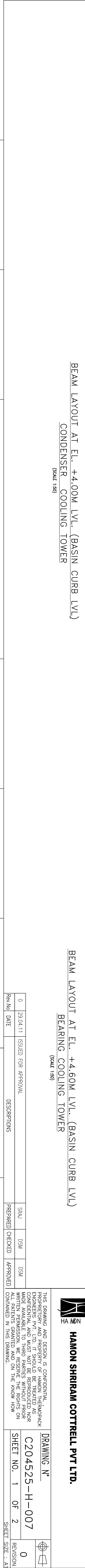
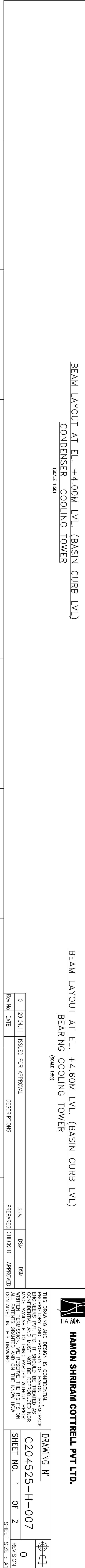
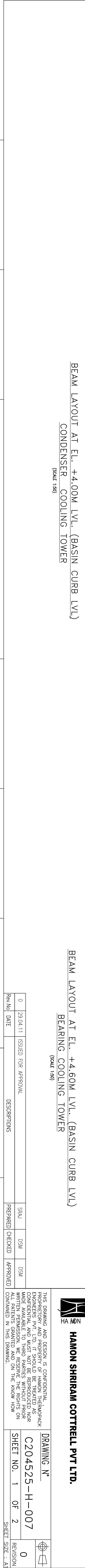
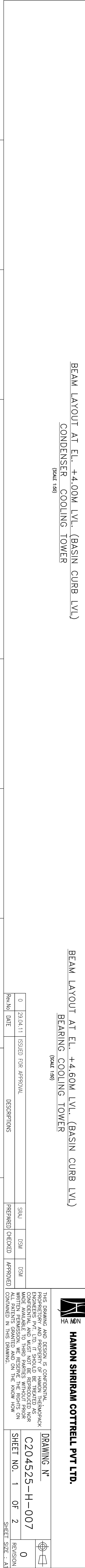
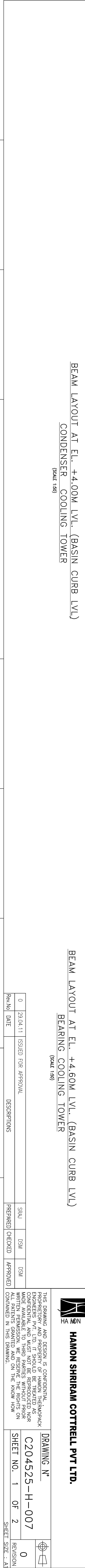
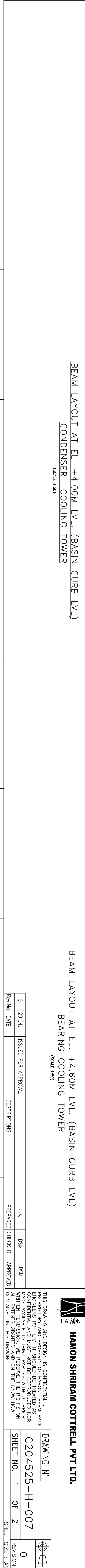
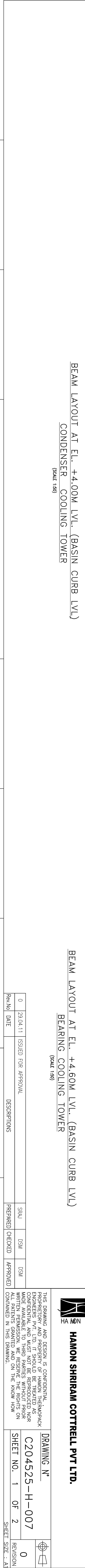
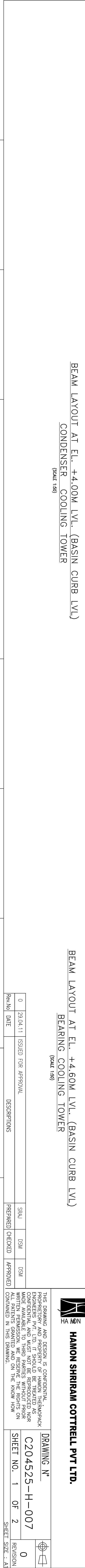
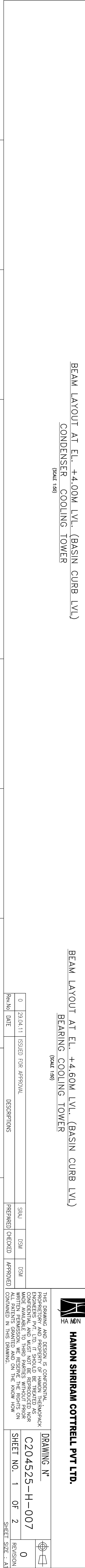
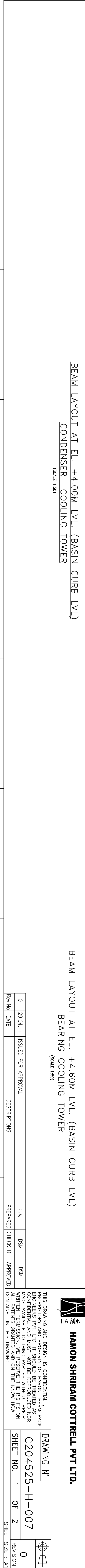
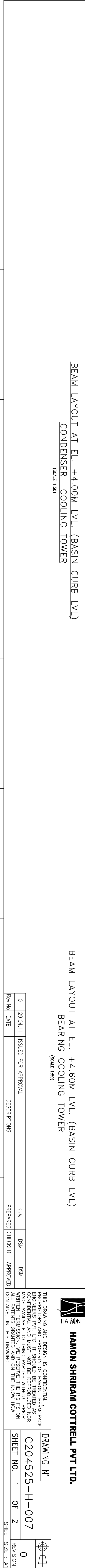
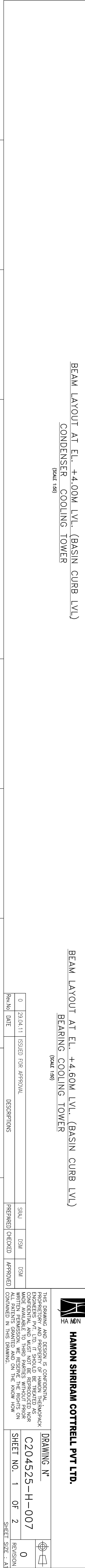
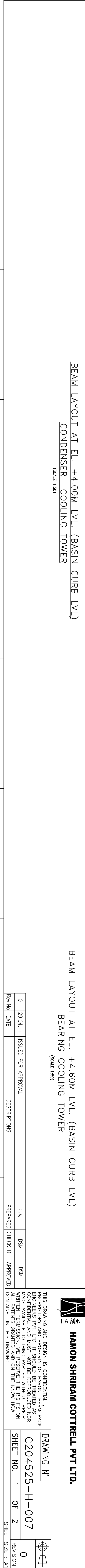
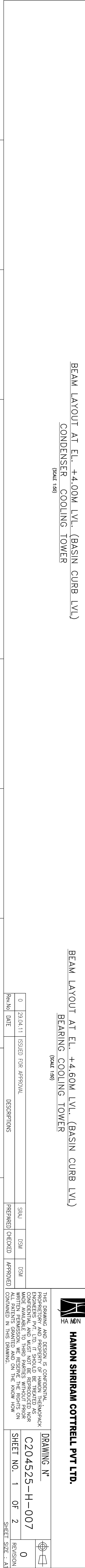
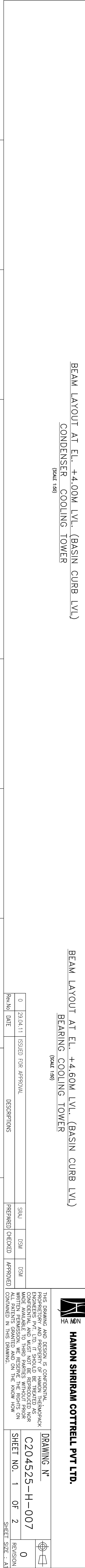
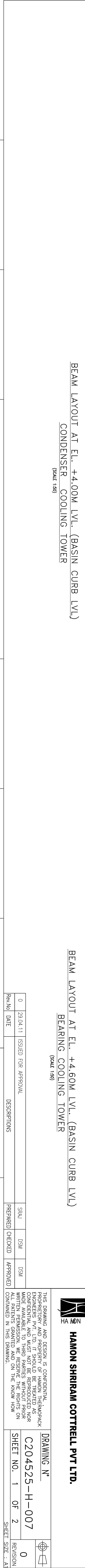
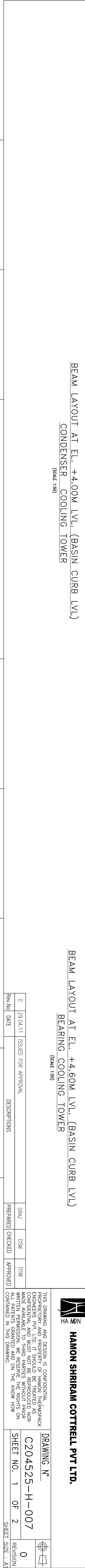
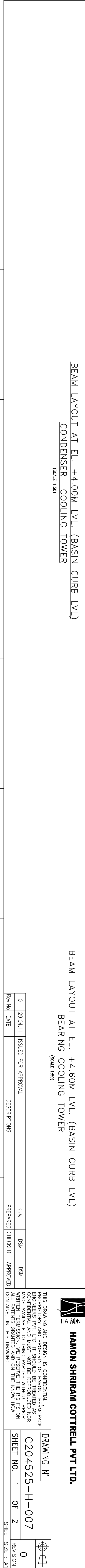
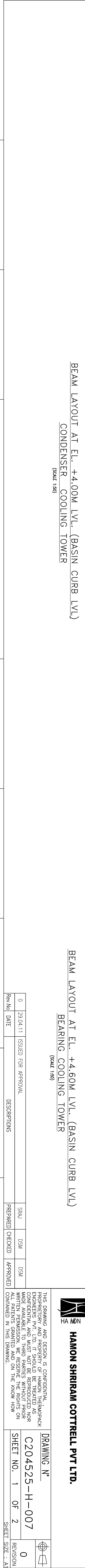
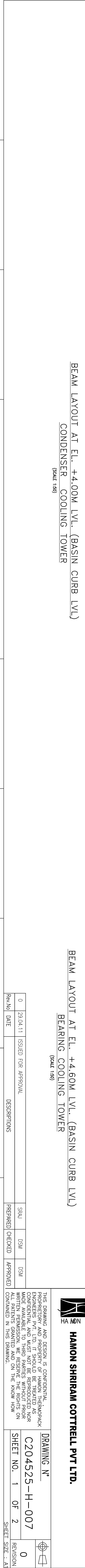
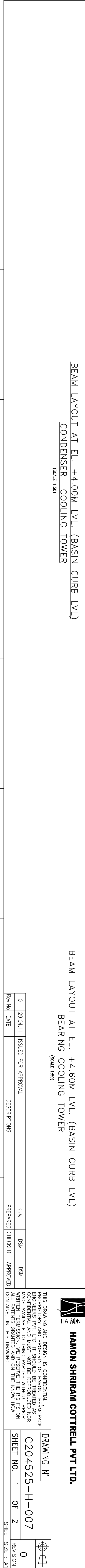
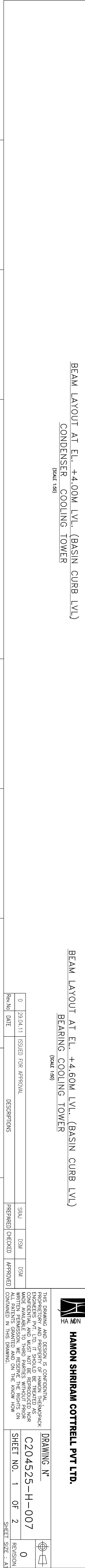
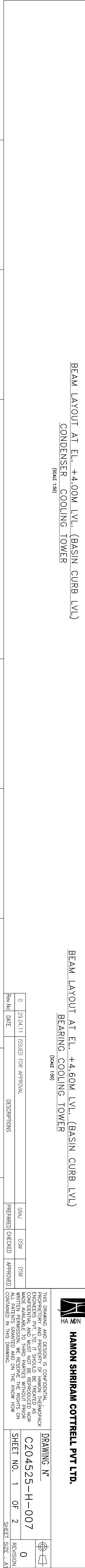
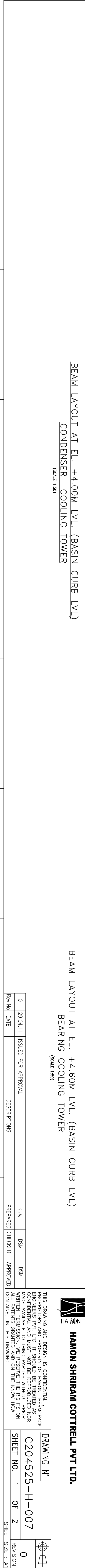
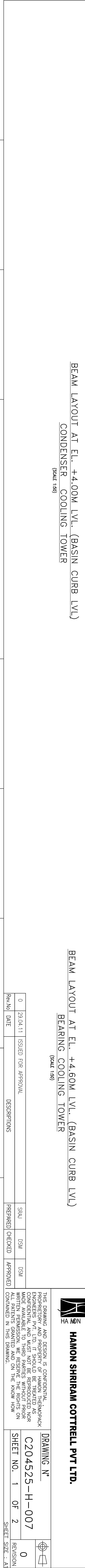
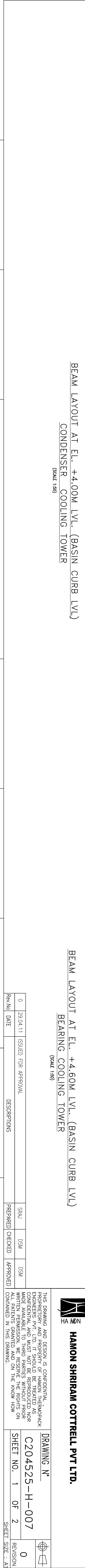
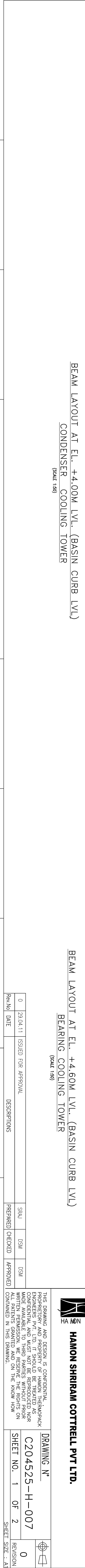
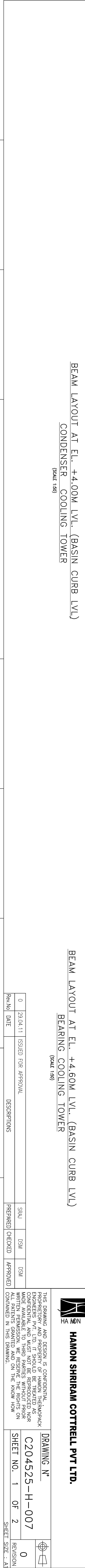
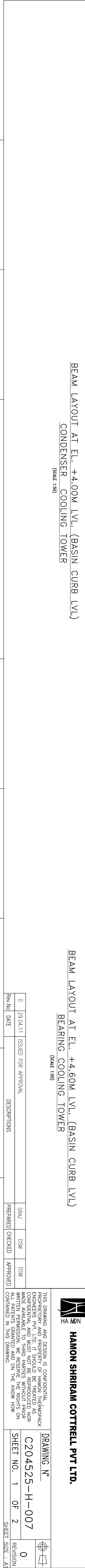
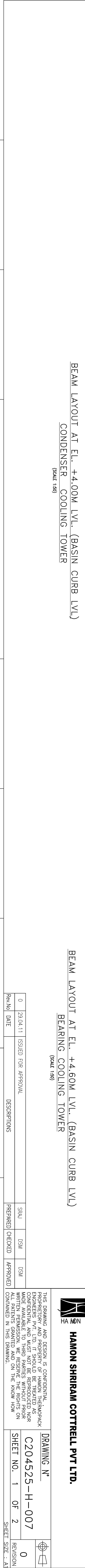
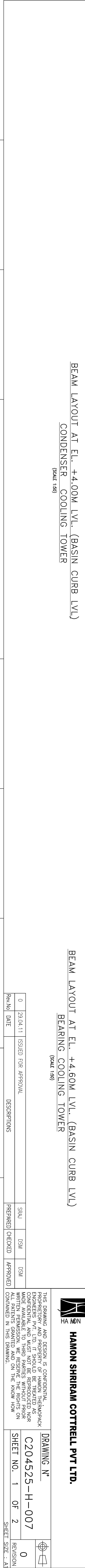
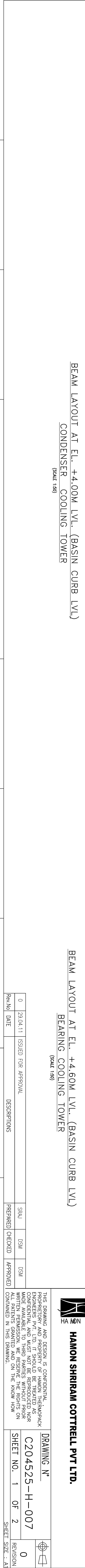
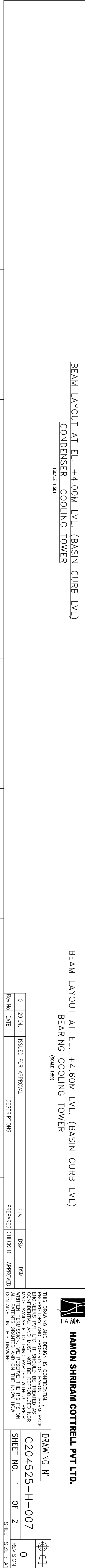
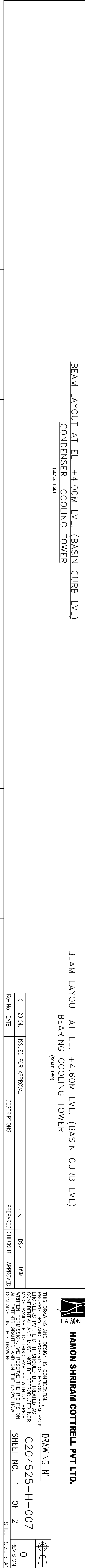
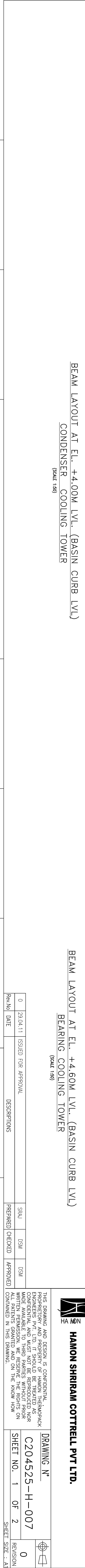
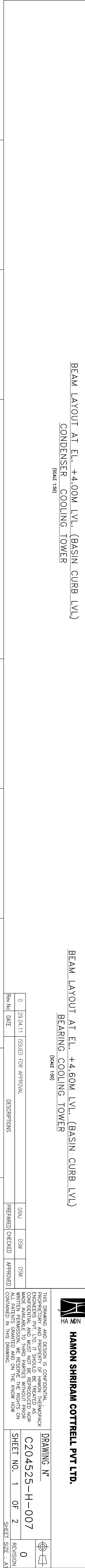
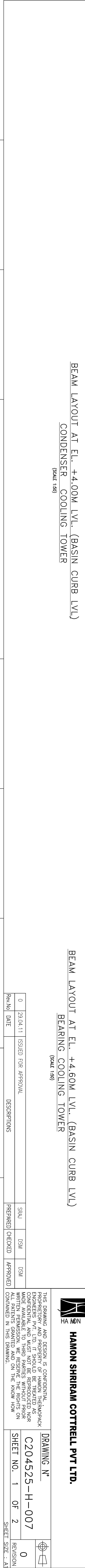
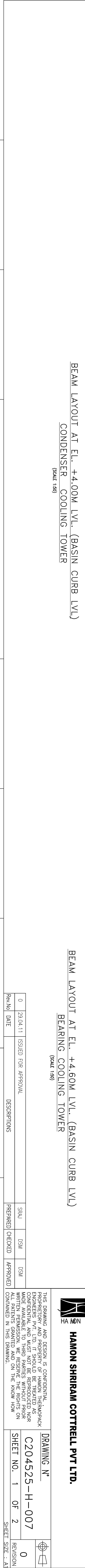
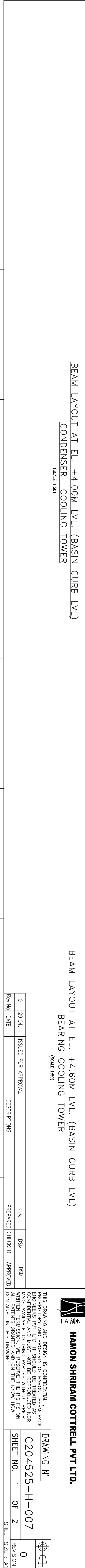
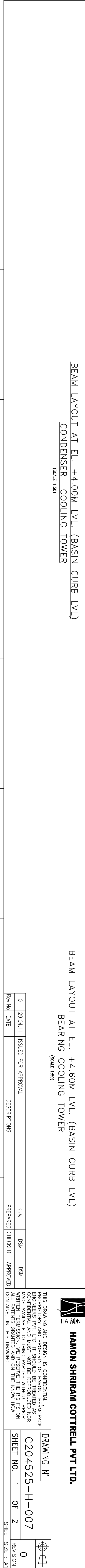
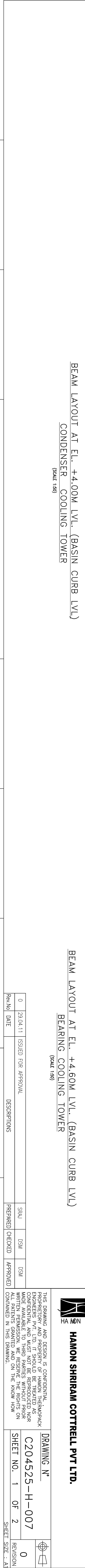
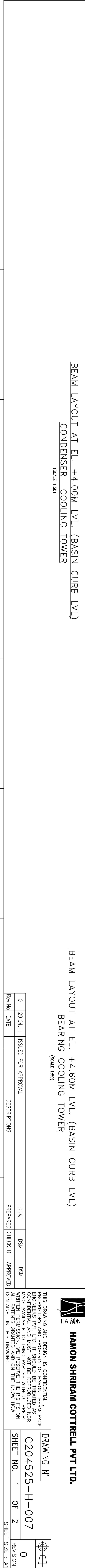
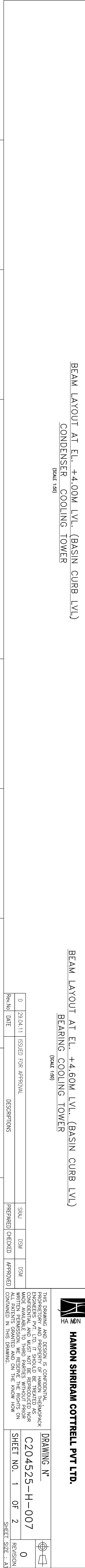
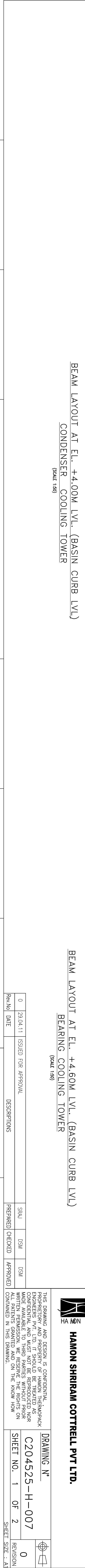
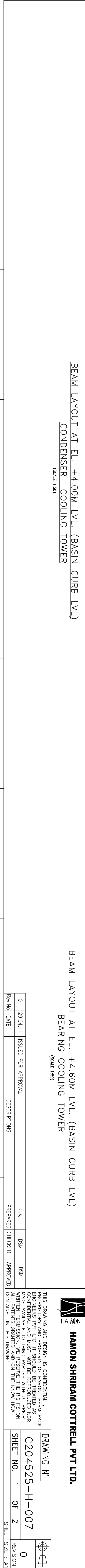
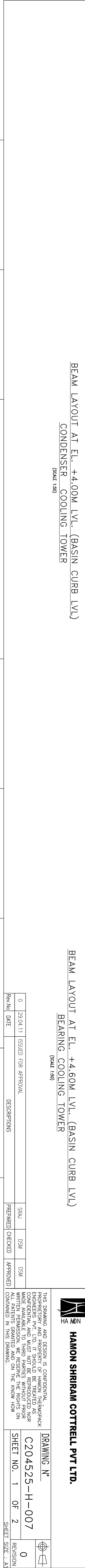
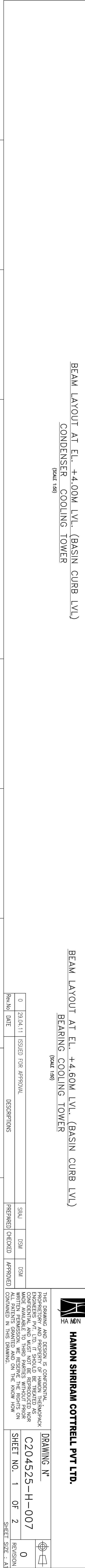
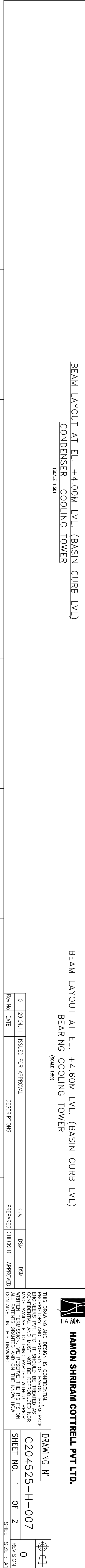
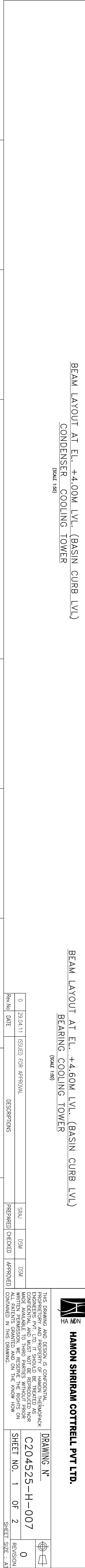
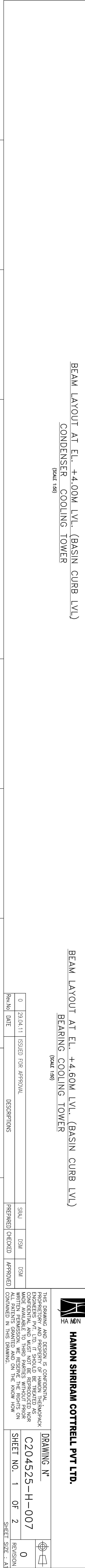
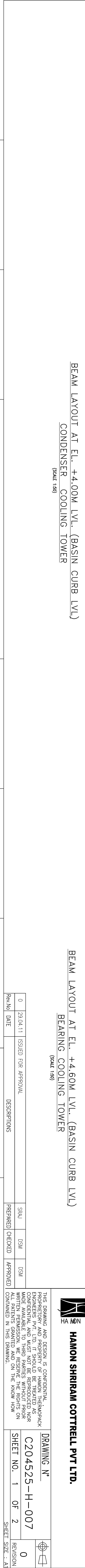
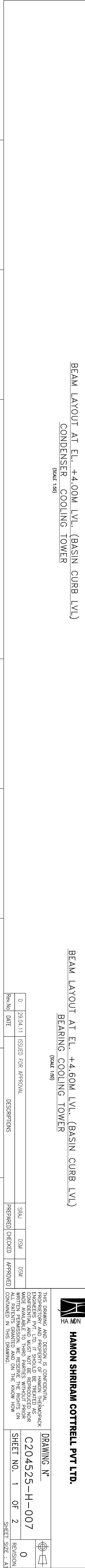
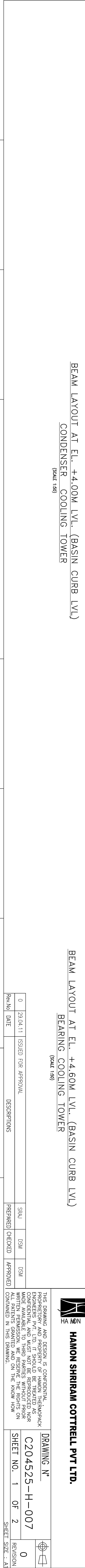
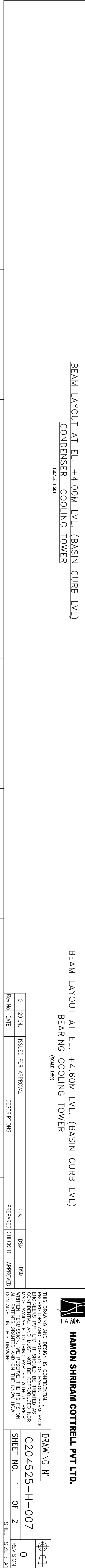
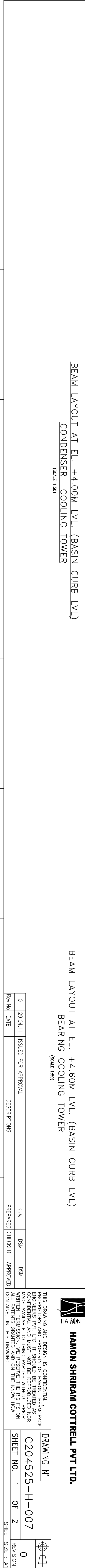
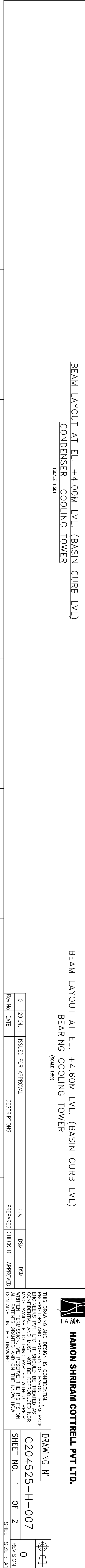
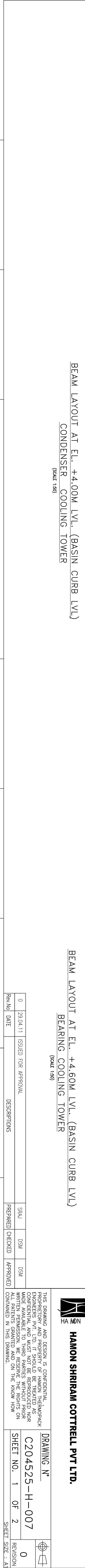
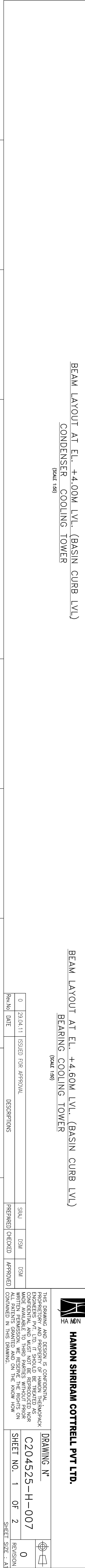
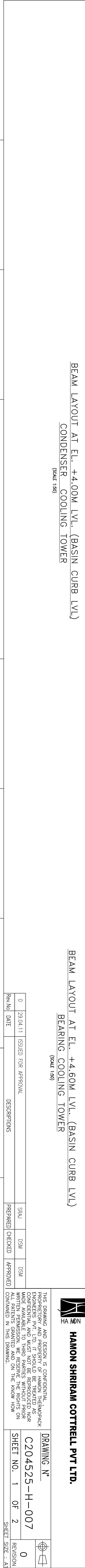
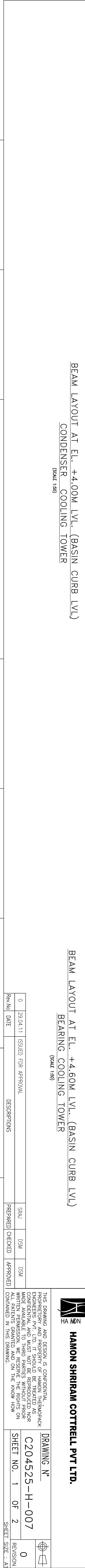
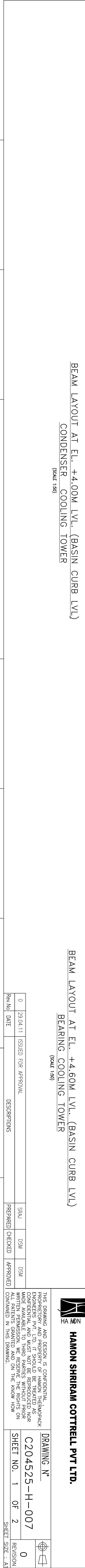
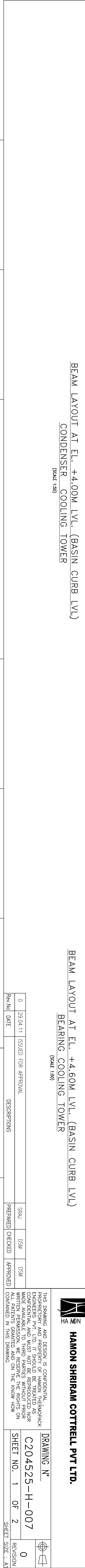
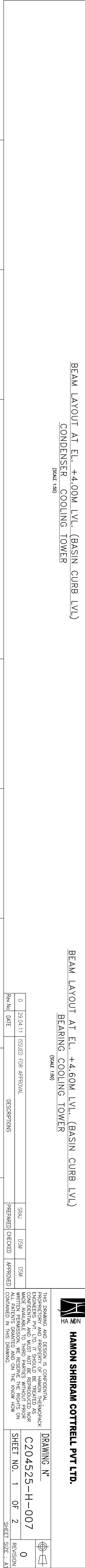
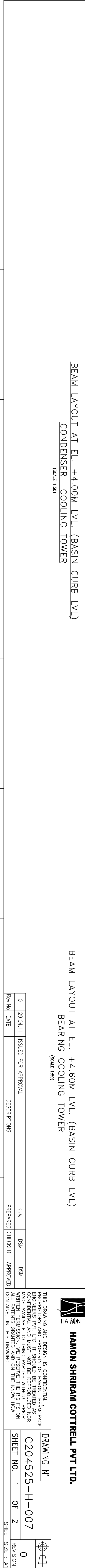
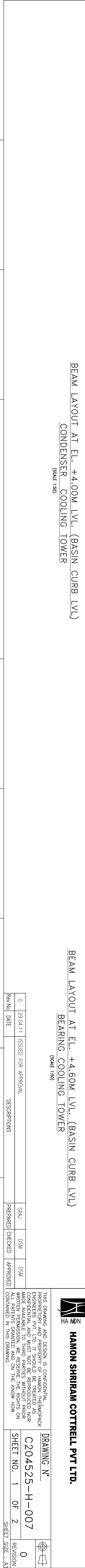
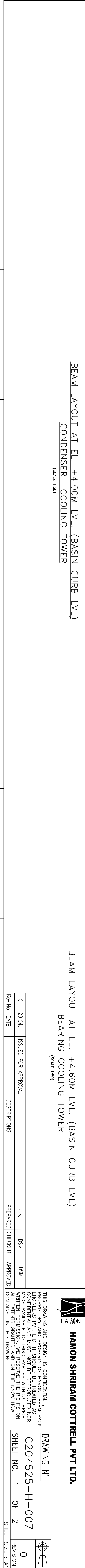
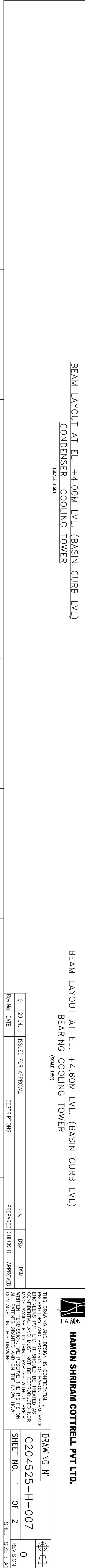
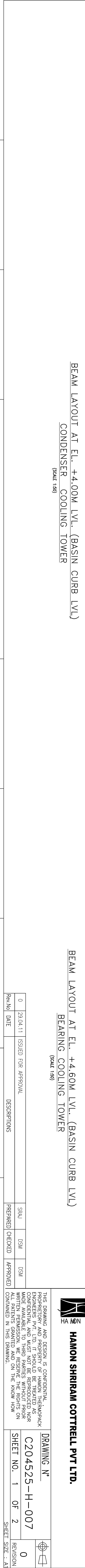
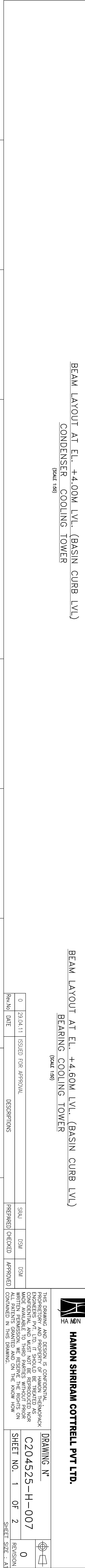
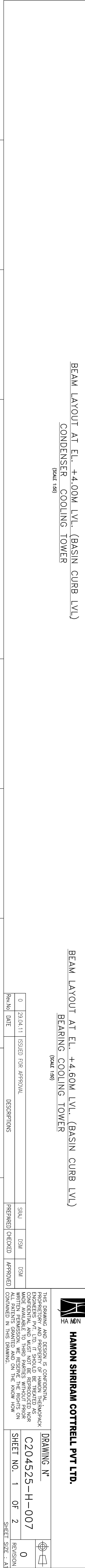
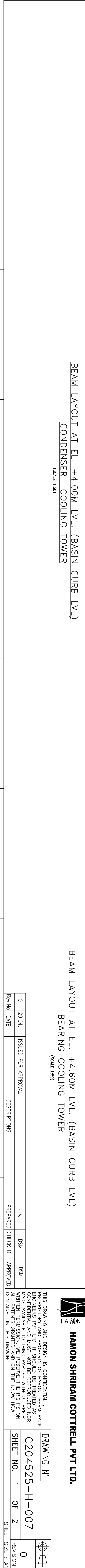
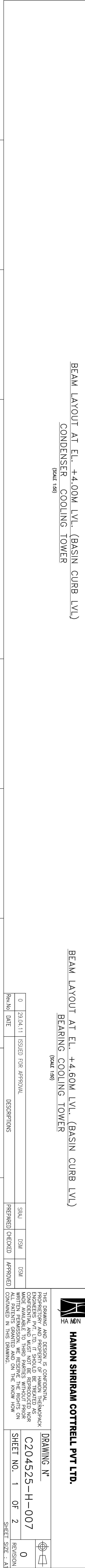
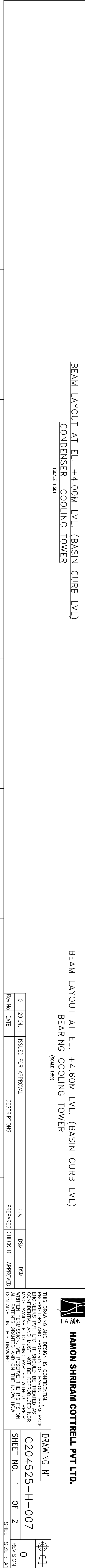
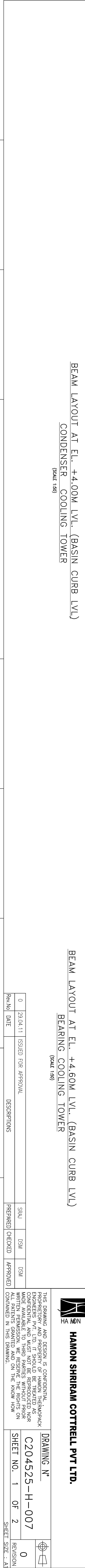
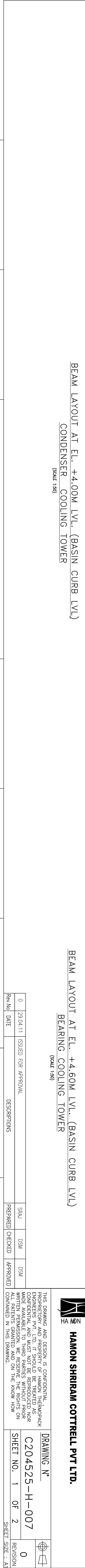
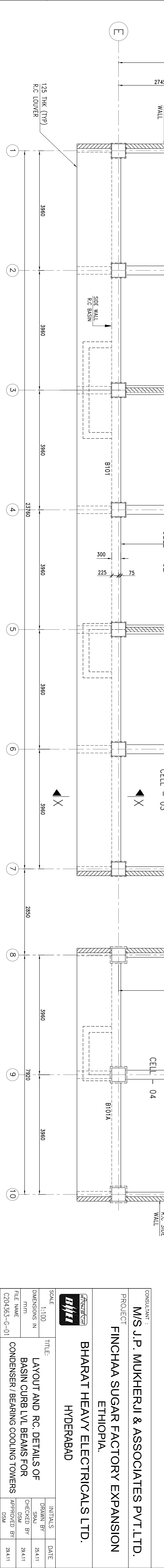
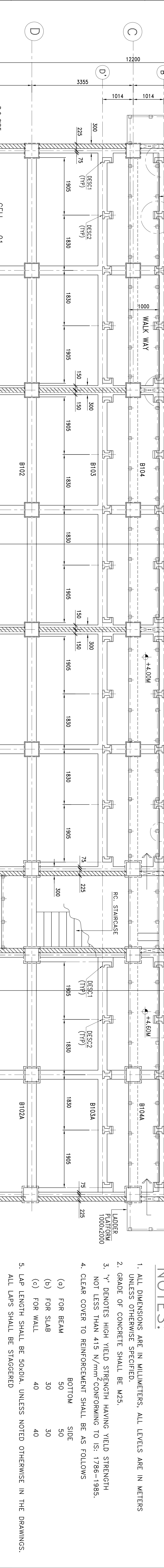
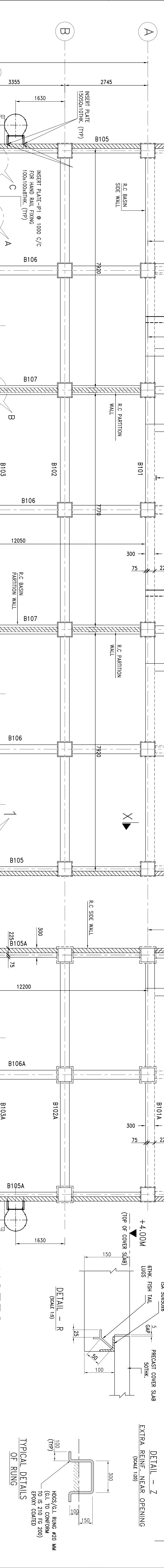
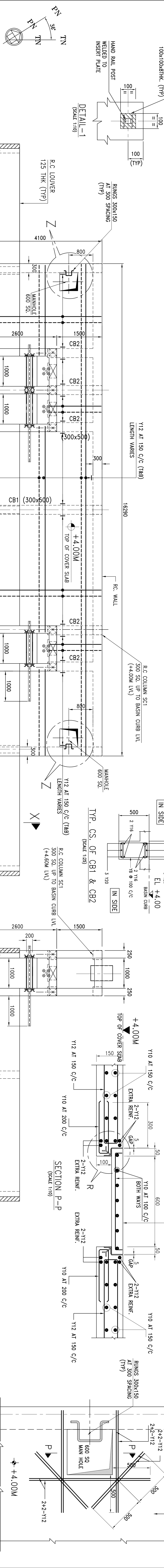
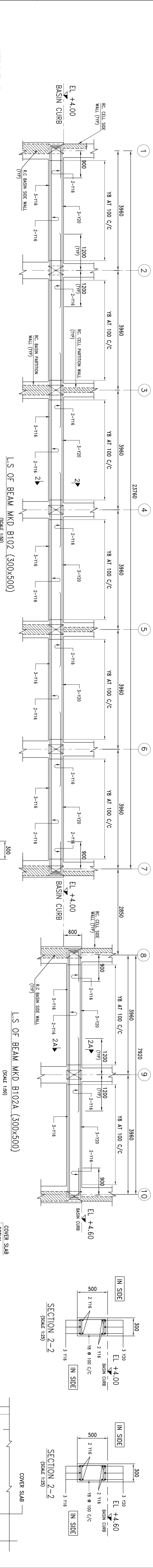
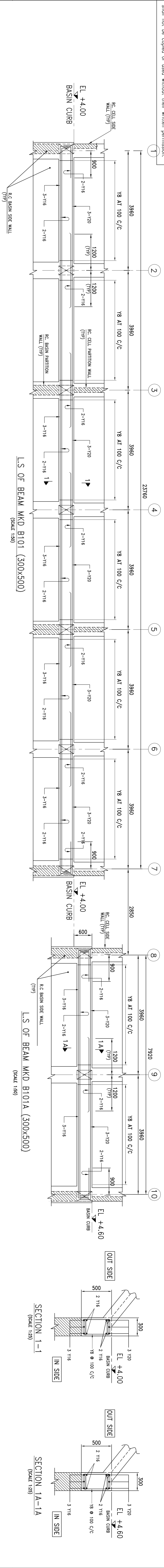
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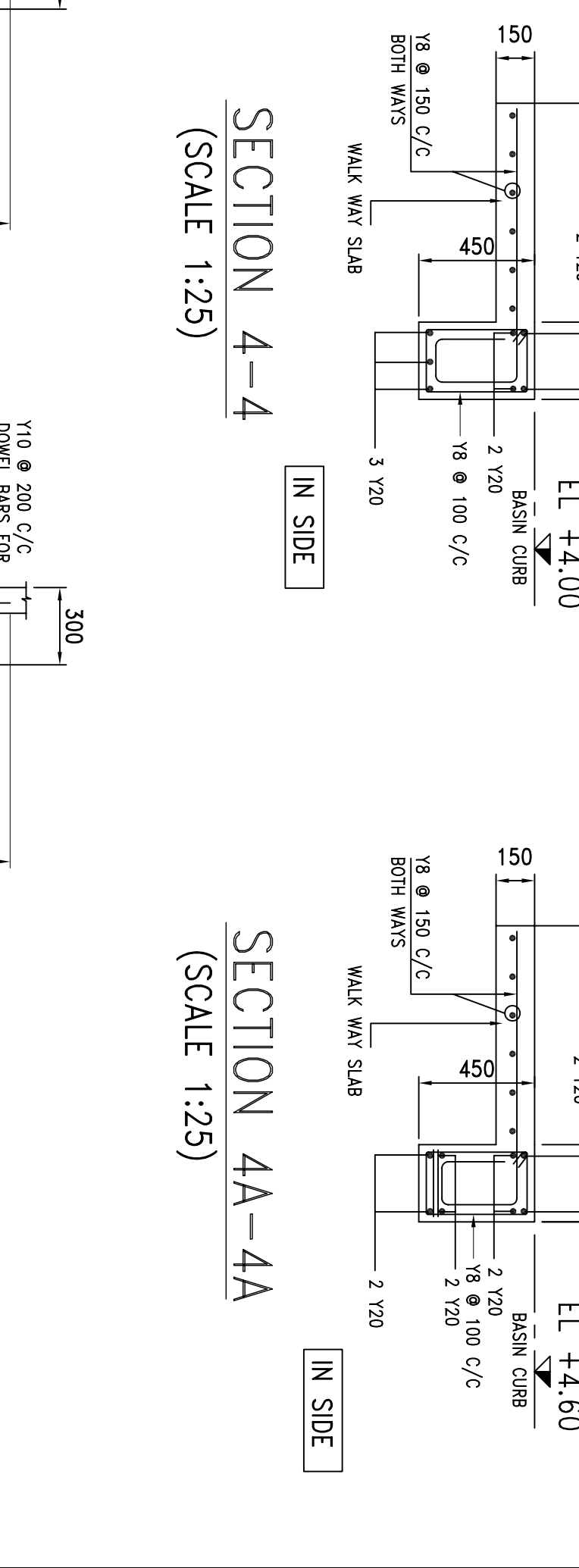
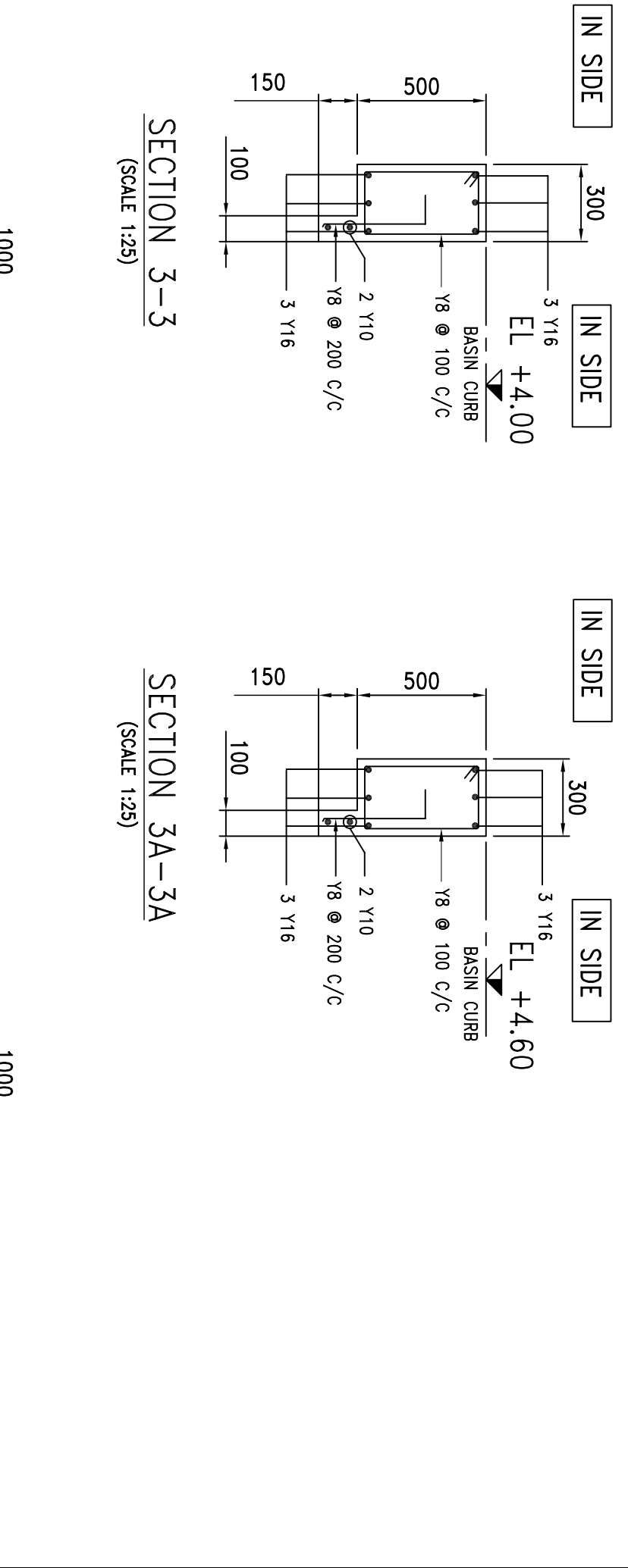
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REVISION :
2

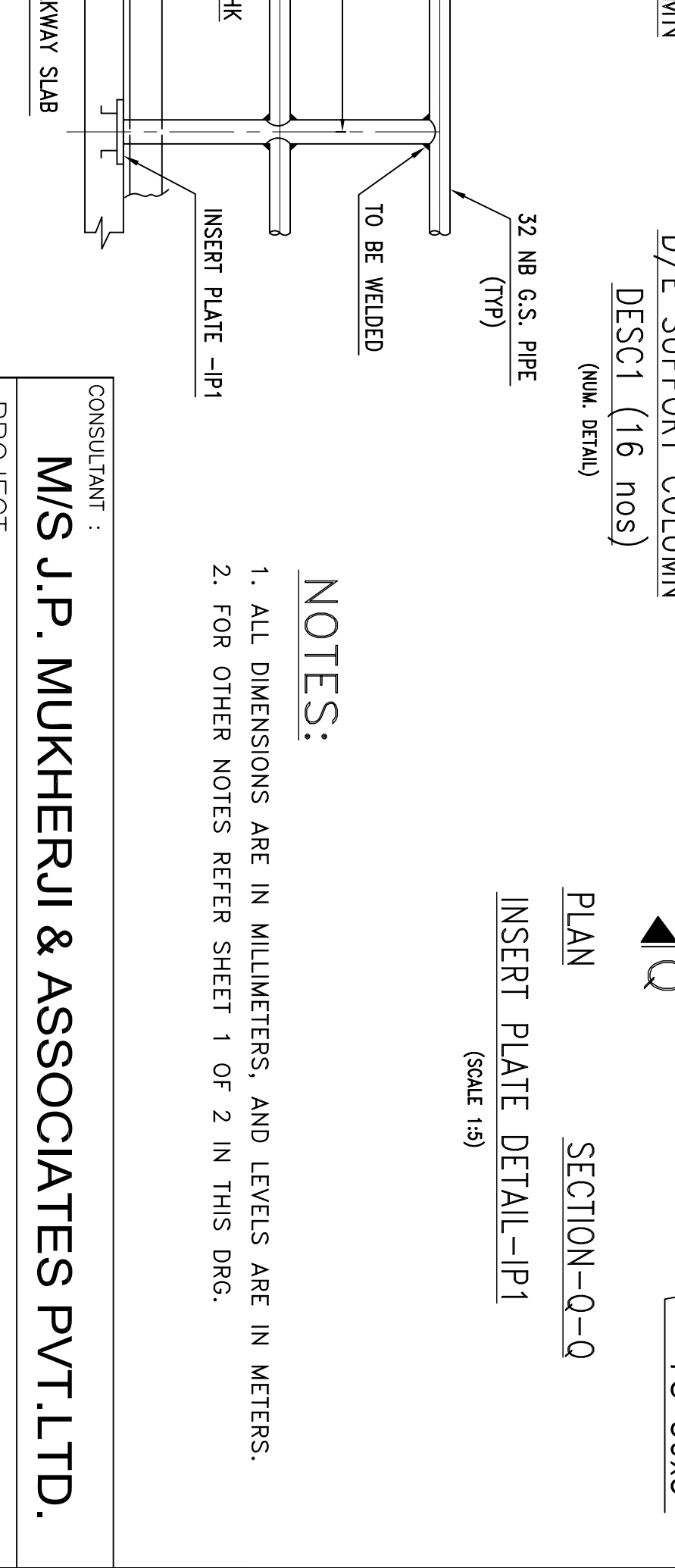
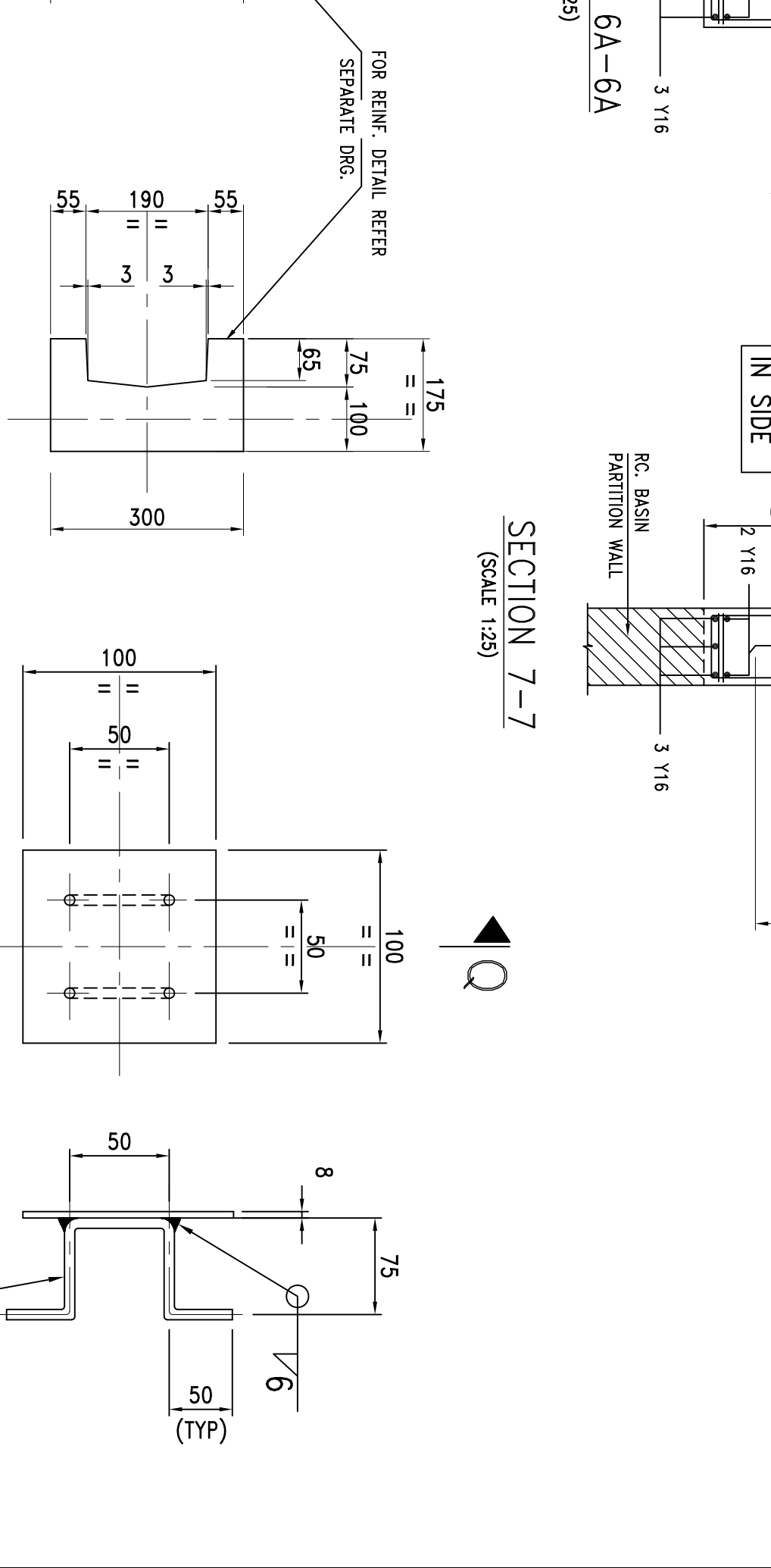
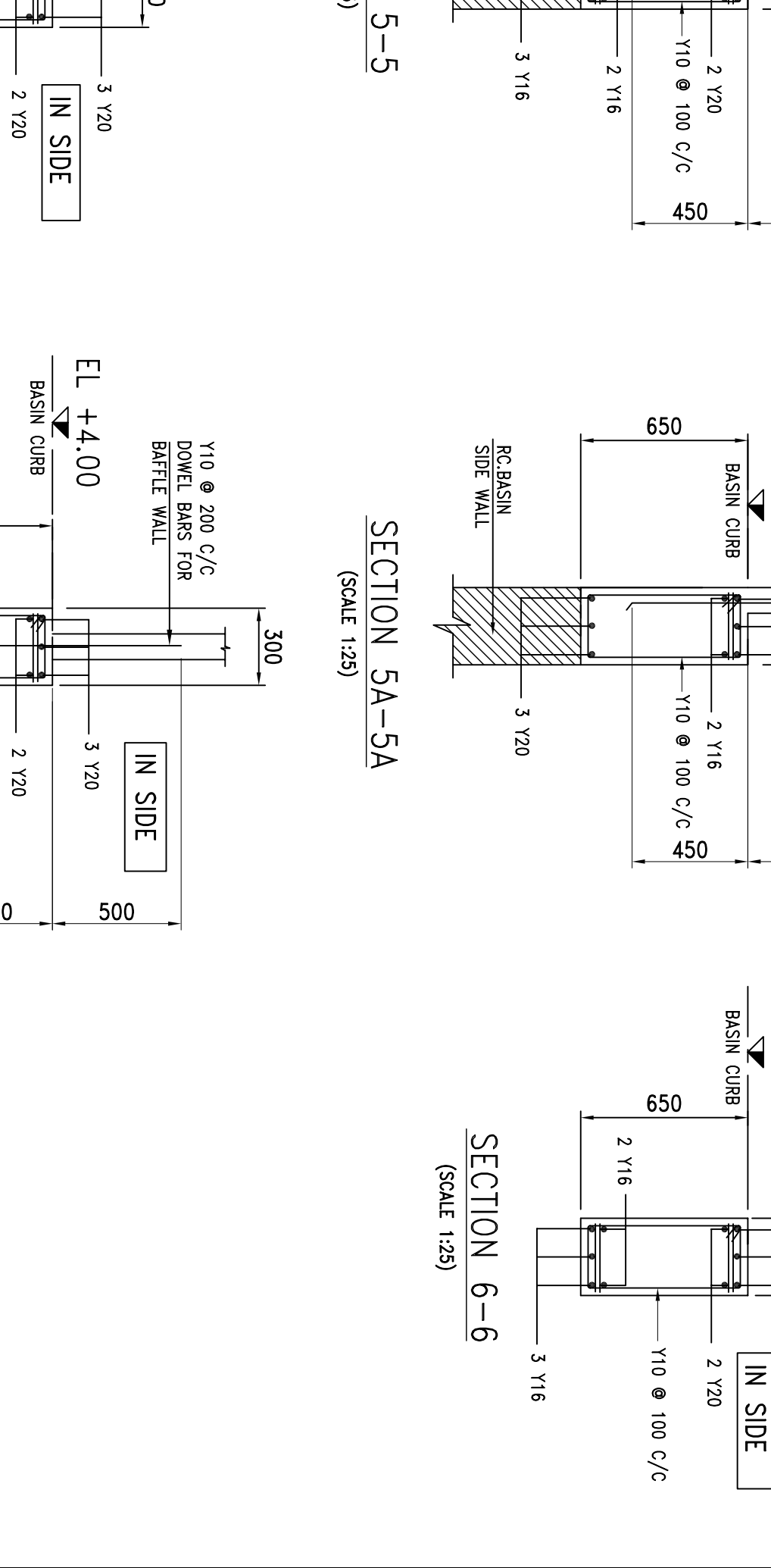
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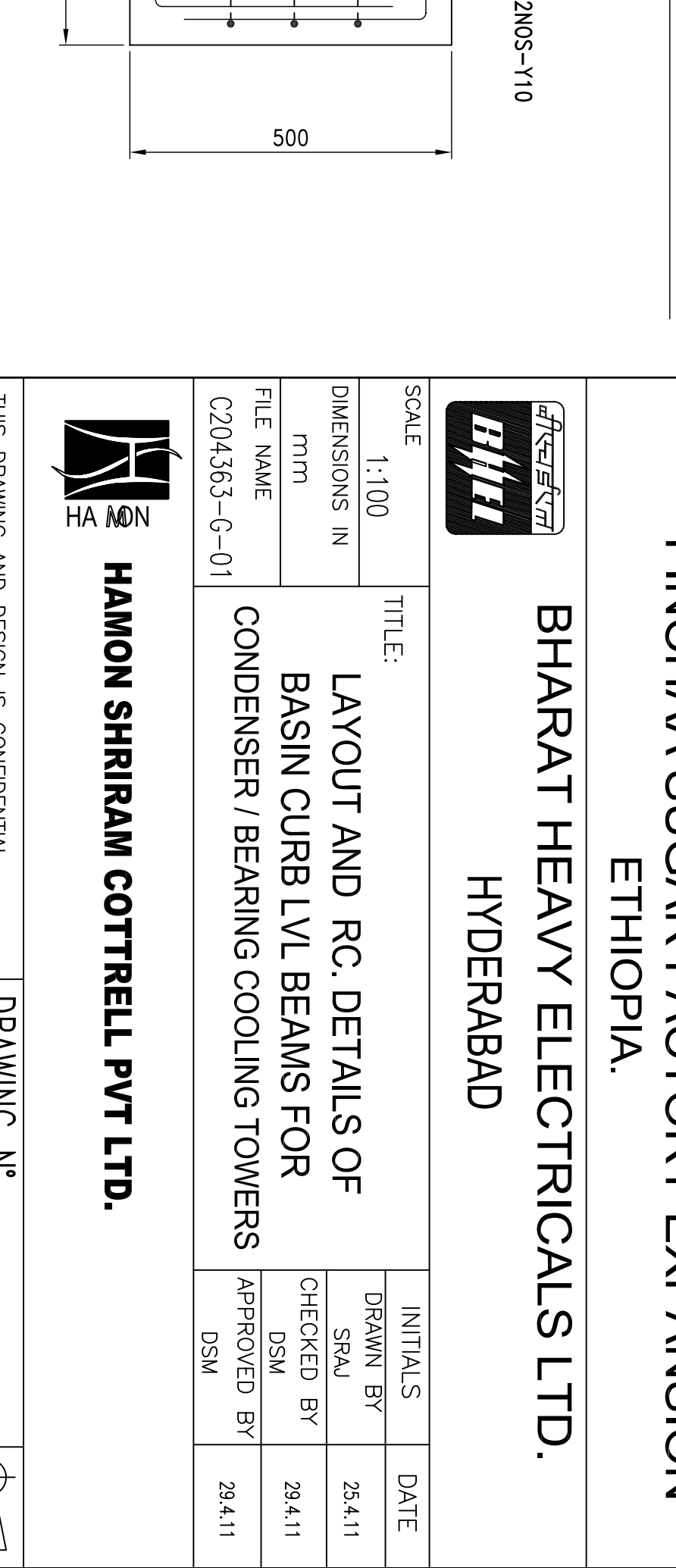




IN SID



KJL & ASS



NPAYM

(TYP. - LOUVER DETAIL) (SCALE = 1/32)		(RC. DETAIL) (SCALE = 1/32)		DETAIL - A (NUMERIC DETAIL)		SECTION Z-Z (NUMERIC DETAIL)		DETAIL - C (NUMERIC DETAIL)		(NUMERIC DETAIL)	
Rev./No.	DATE	DESCRIPTIONS	ISSUED FOR APPROVAL	ISSUED	DATE	ISSUED	DATE	ISSUED	DATE	ISSUED	DATE
0	20.04.11										
MAKE AVAILABLE TO THIRD PARTIES WITHOUT PRIOR NOTICE OF THE INVENTOR'S OR DESIGNER'S RIGHTS IN ALL PATENTS GRANTED AND ON THE KNOW HOW CONTAINED IN THIS DRAWING.											
SHEET NO. 2 OF 2										REVISION 0	
SHEET SIZE : A1											