

# CIVIL & STRUCTURAL DRAWING LIST

SL. NO.	DRAWING TITLE	DRAWING NUMBER	SHEET	REVISION
1.	GENERAL NOTES FOR CIVIL & STRUCTURAL WORKS	18A08-DWG-C-0001	1	0
2.	CONCRETE WORKS – STANDARD DETAILS	18A08-DWG-C-0002	1	0
3.	CONTROL BUILDING – LAYOUT & DETAILS OF PILE AND PILE CAP	18A08-DWG-C-0003	2	0
4.	CONTROL BUILDING – SUPERSTRUCTURE GA & RC DRAWING	18A08-DWG-C-0004	6	0
5.	CONTROL BUILDING – STAIR – GA & RC DETAILS	18A08-DWG-C-0005	2	0
6.	GA & FDN DETAILS OF CONNECTING PLATFORM BETWEEN CONTROL BUILDING & EXISTING BOILER BUILDING	18A08-DWG-C-0006	2	0
7.	CONTROL BUILDING – DETAILS OF GRADE SLAB	18A08-DWG-C-0007	1	0

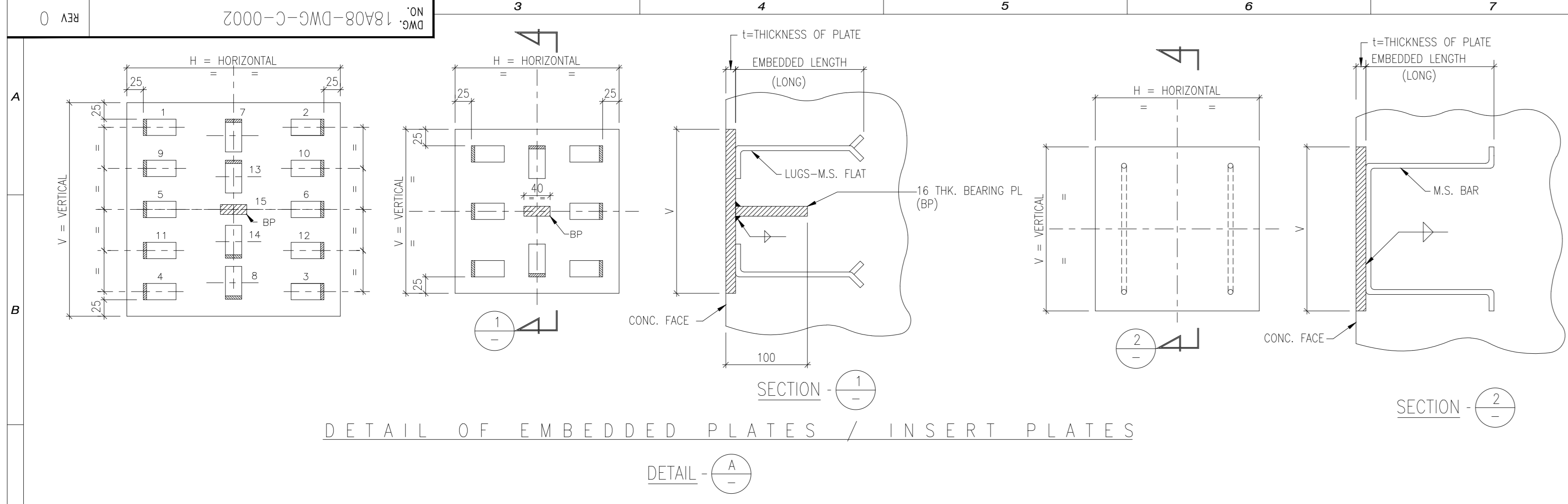
ISSUED FOR CONSTRUCTION

	OWNER:	IFFCO PARADEEP			
PROJECT:		IFFCO PARADEEP AFBC BOILER CONTROL ROOM			
TITLE:		LIST OF DETAIL ENGINEERING DRAWINGS			
<b>DEVELOPMENT CONSULTANTS PVT LTD.</b> CONSULTING ENGINEERS <small>KOLKATA • MUMBAI • CHENNAI • NEW DELHI</small>					
PREPARED	ASHIS	JOB NO.	18A08		REV 0 1 SHEET OF 1
CHECKED	NC	SCALE	1:1		
APPROVED	AR	DATE	22.02.2019		
DWG. NO.		18A08-DWG-C-0000			

APPROV.	MECH.	INST.	ELEC.	STRL.	ARCH.	NATURE OF REVISION & DESCRIPTION	CHECKED	DRAWN	REV.	DATE	RELEASE STATUS	DATE	SIGNATURE
											PRELIMINARY		
											FOR TENDER ONLY		
											FOR CONSTRUCTION	24.09.19	AR
											ARCHITECTURAL		
											CIVIL & STRUCTURAL		
											ELECTRICAL		
											INSTRUMENTATION		
											MECHANICAL		

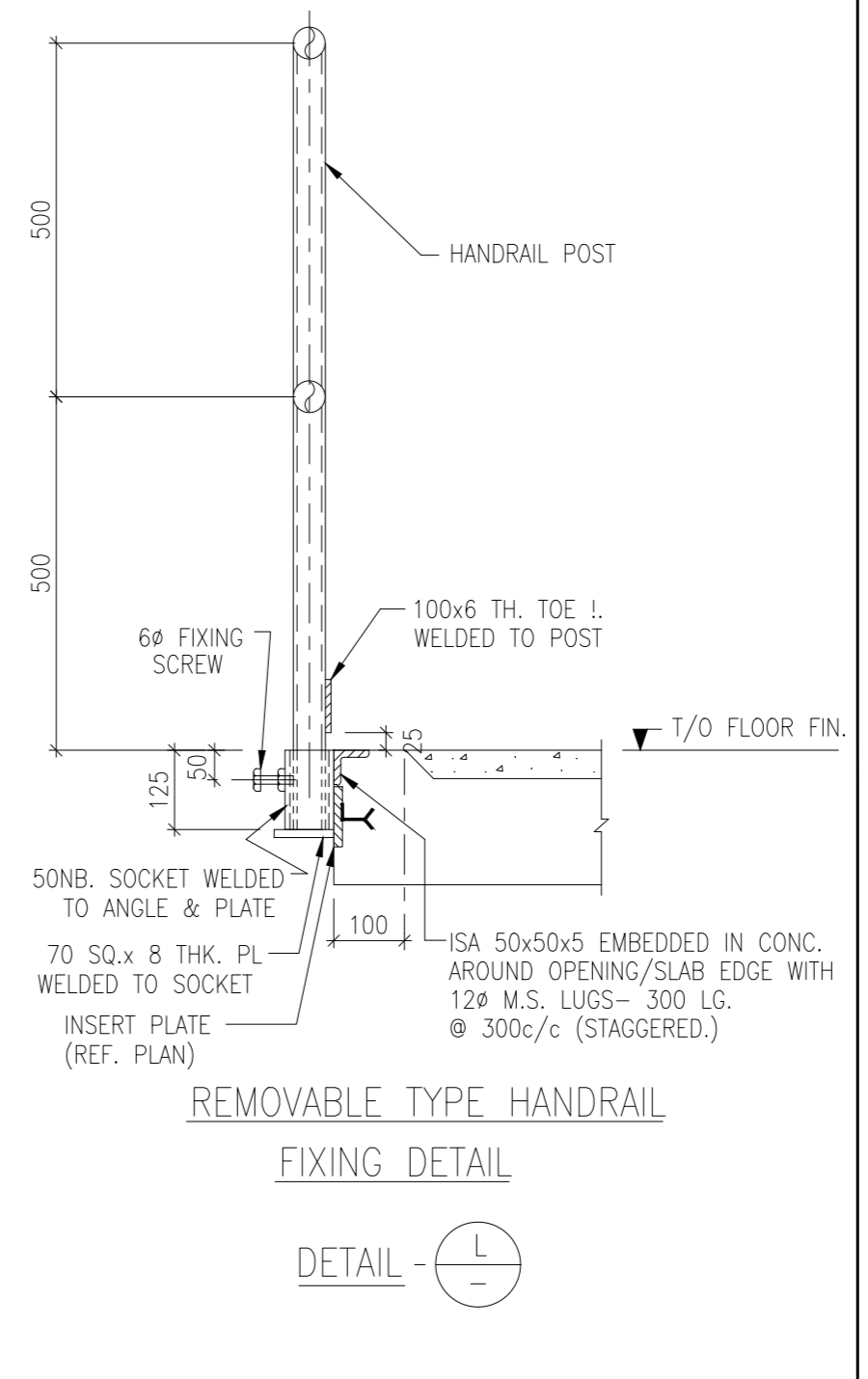
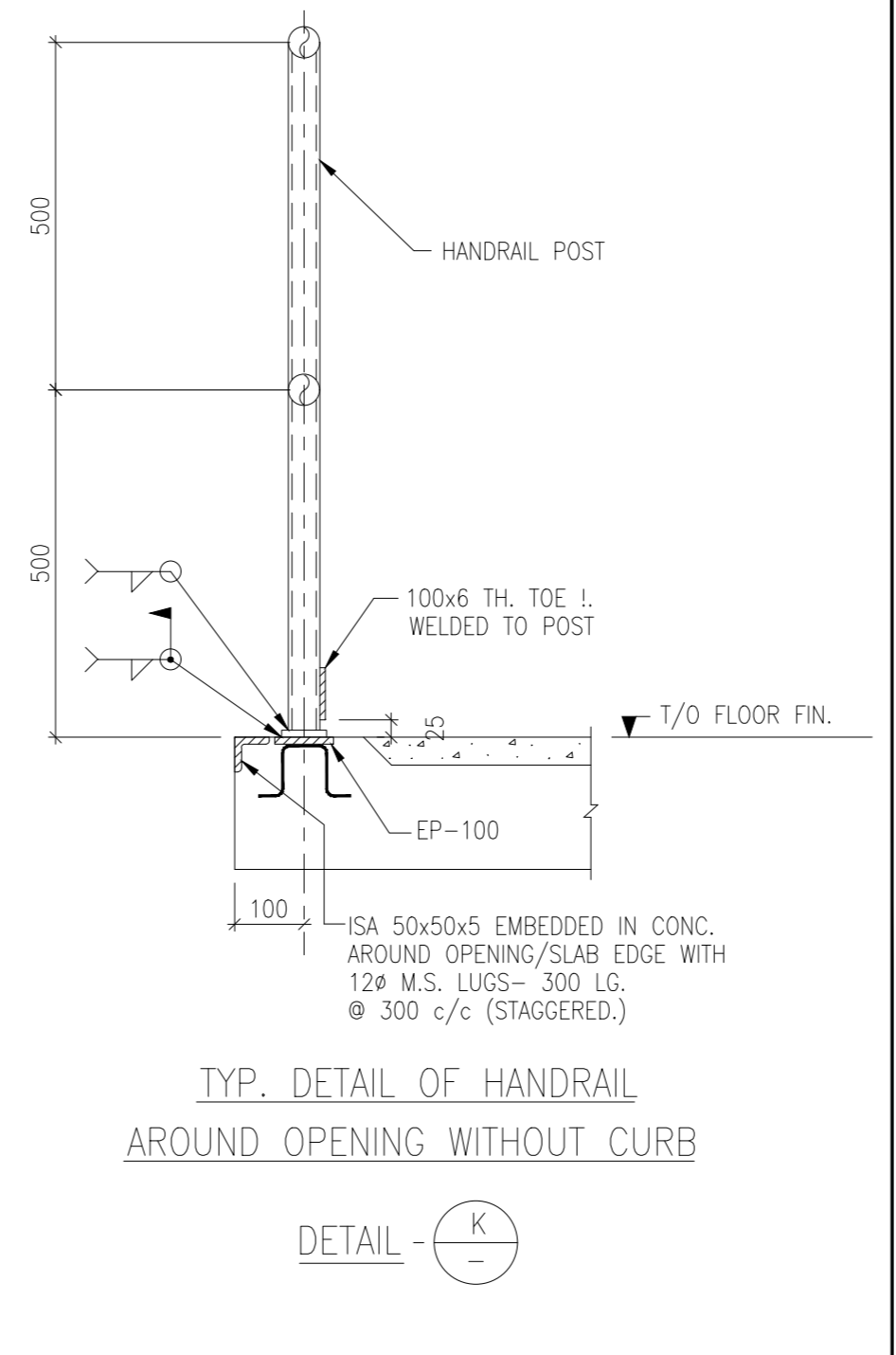
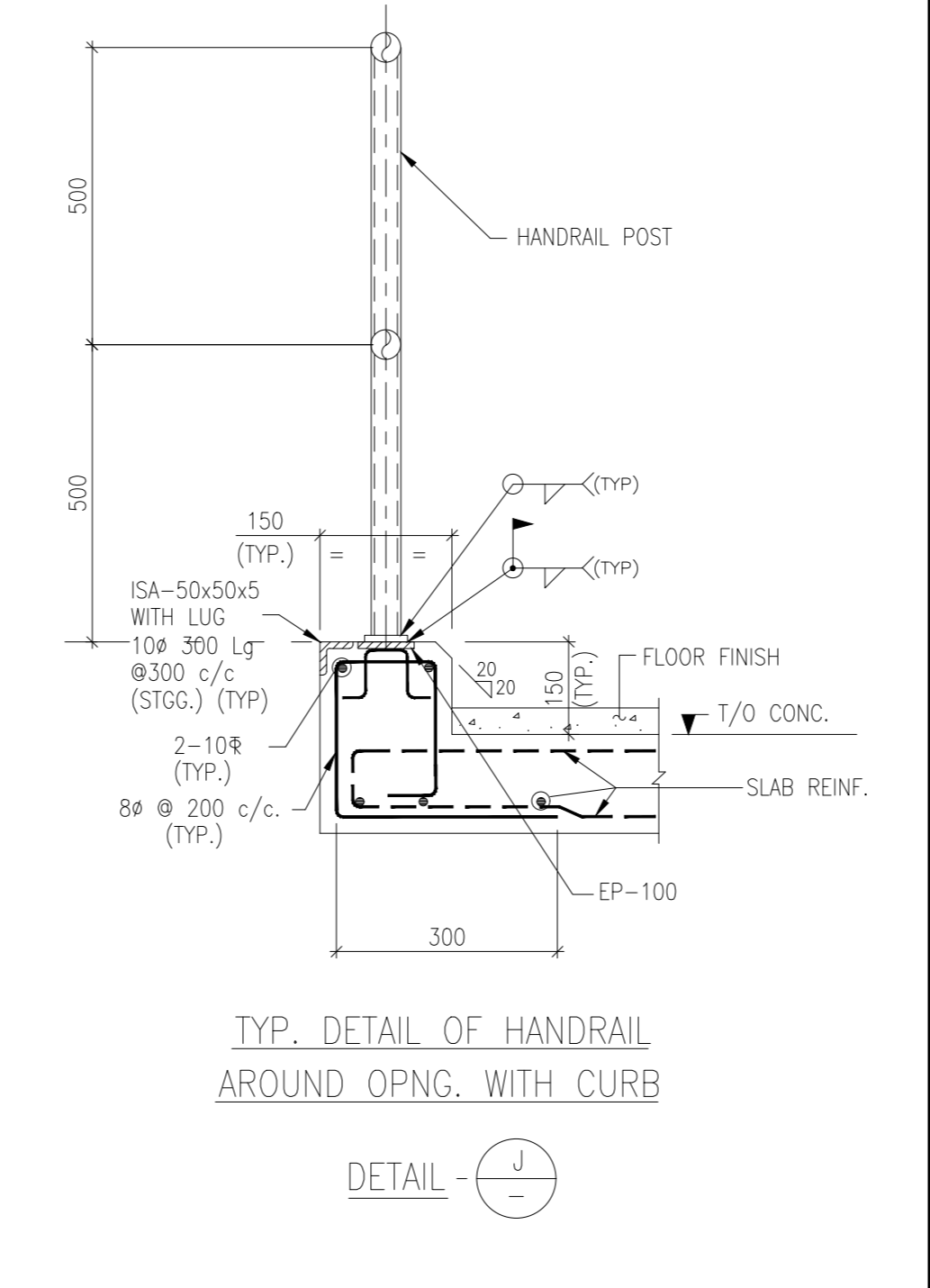
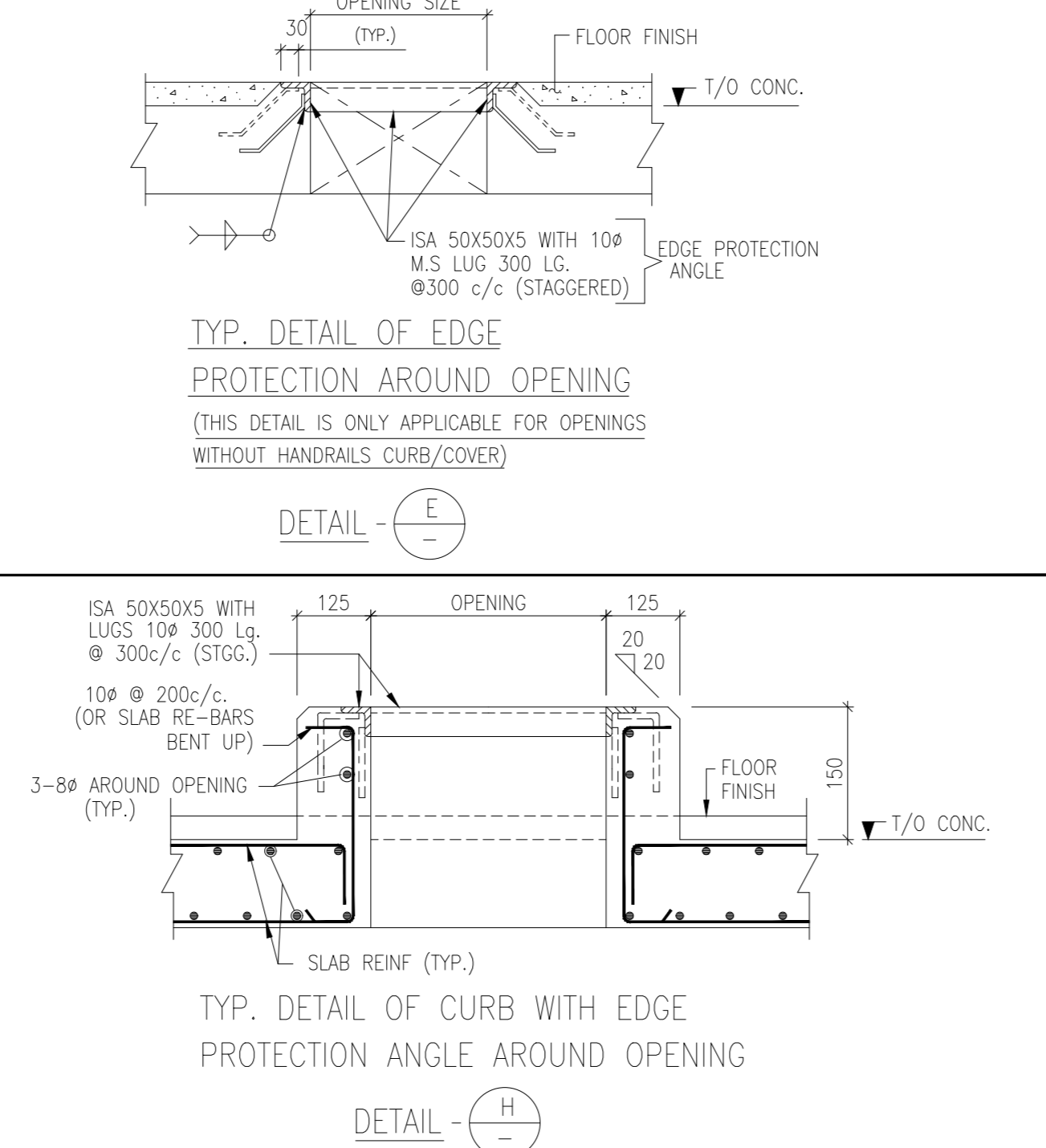
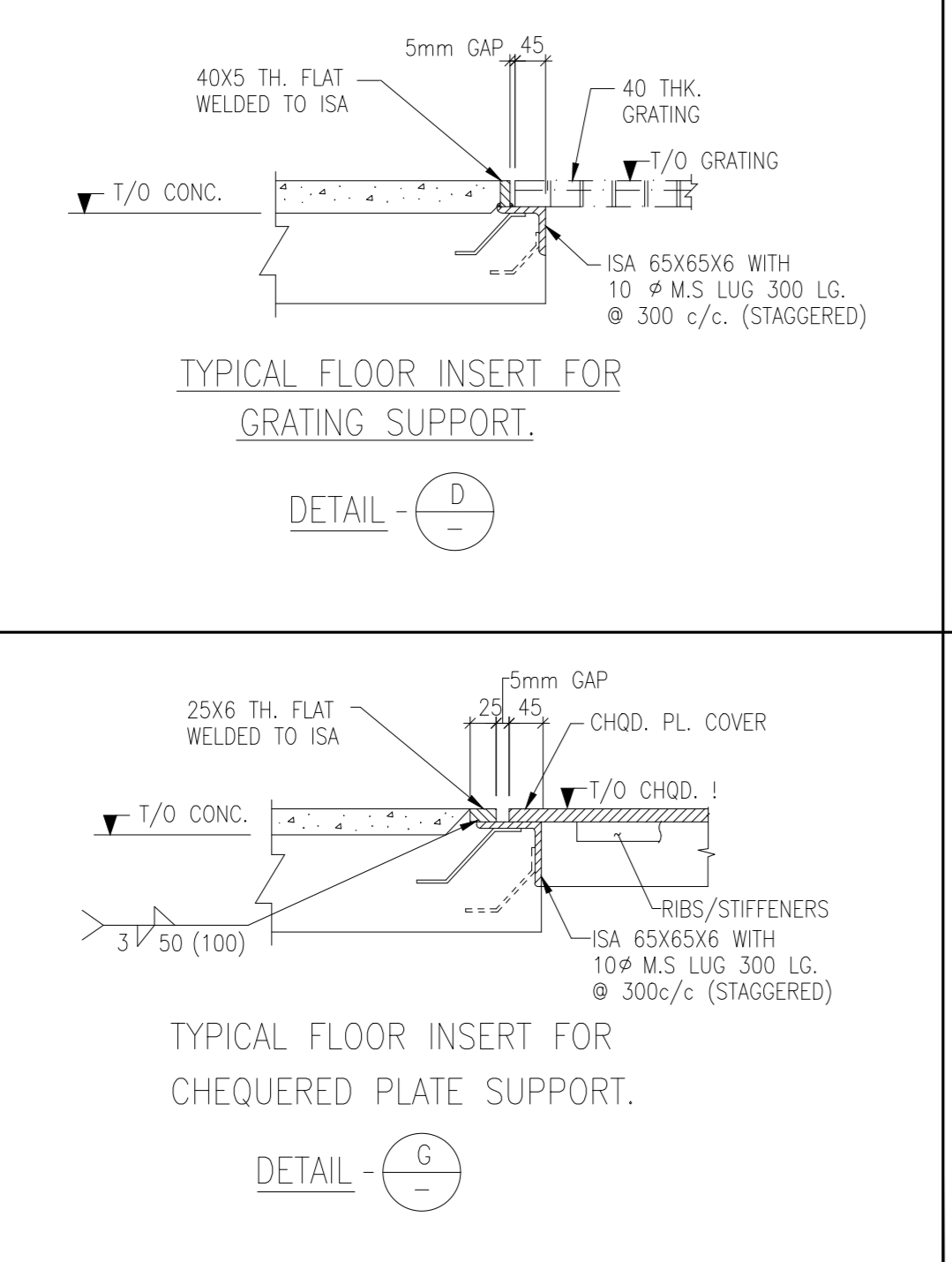
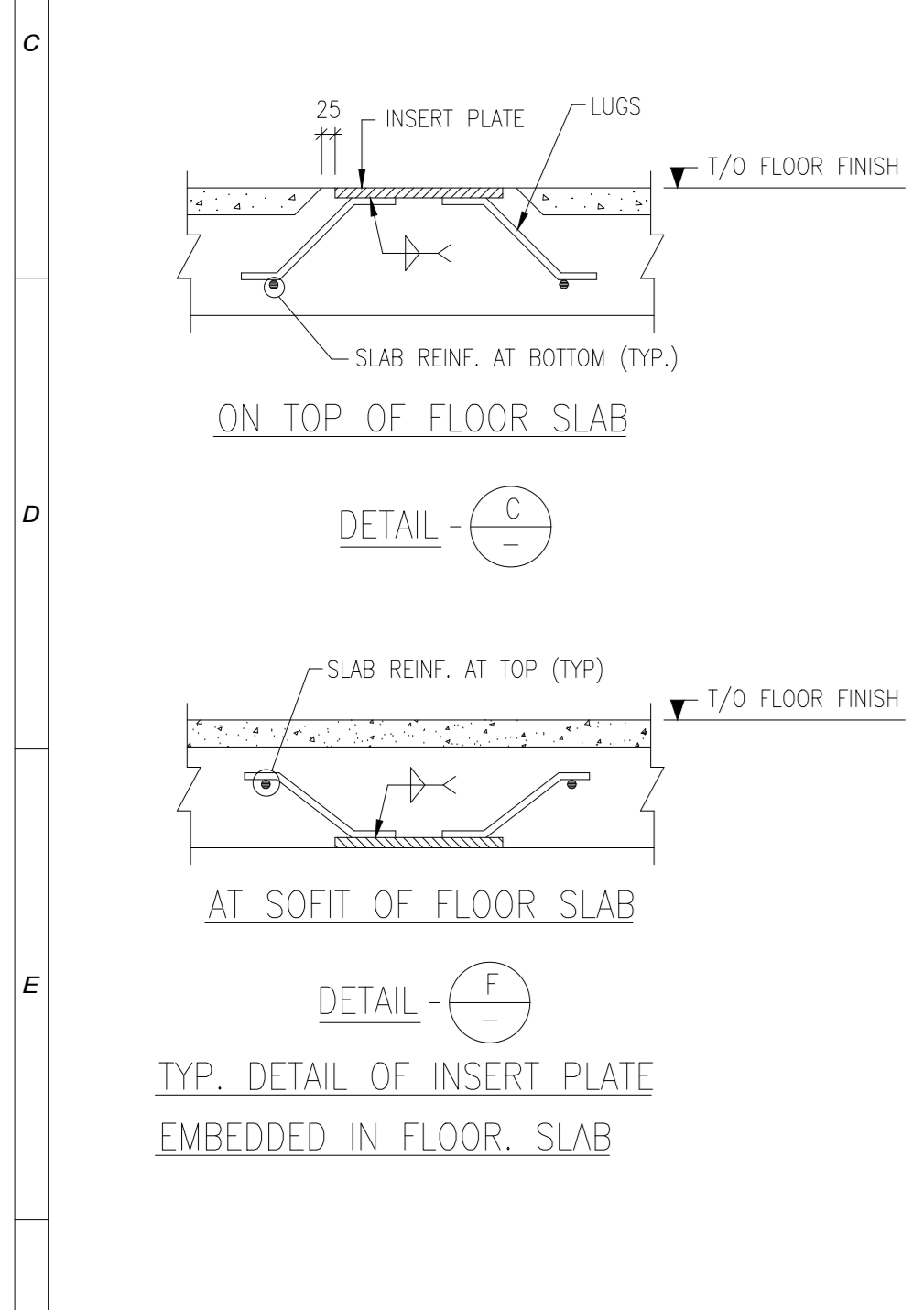
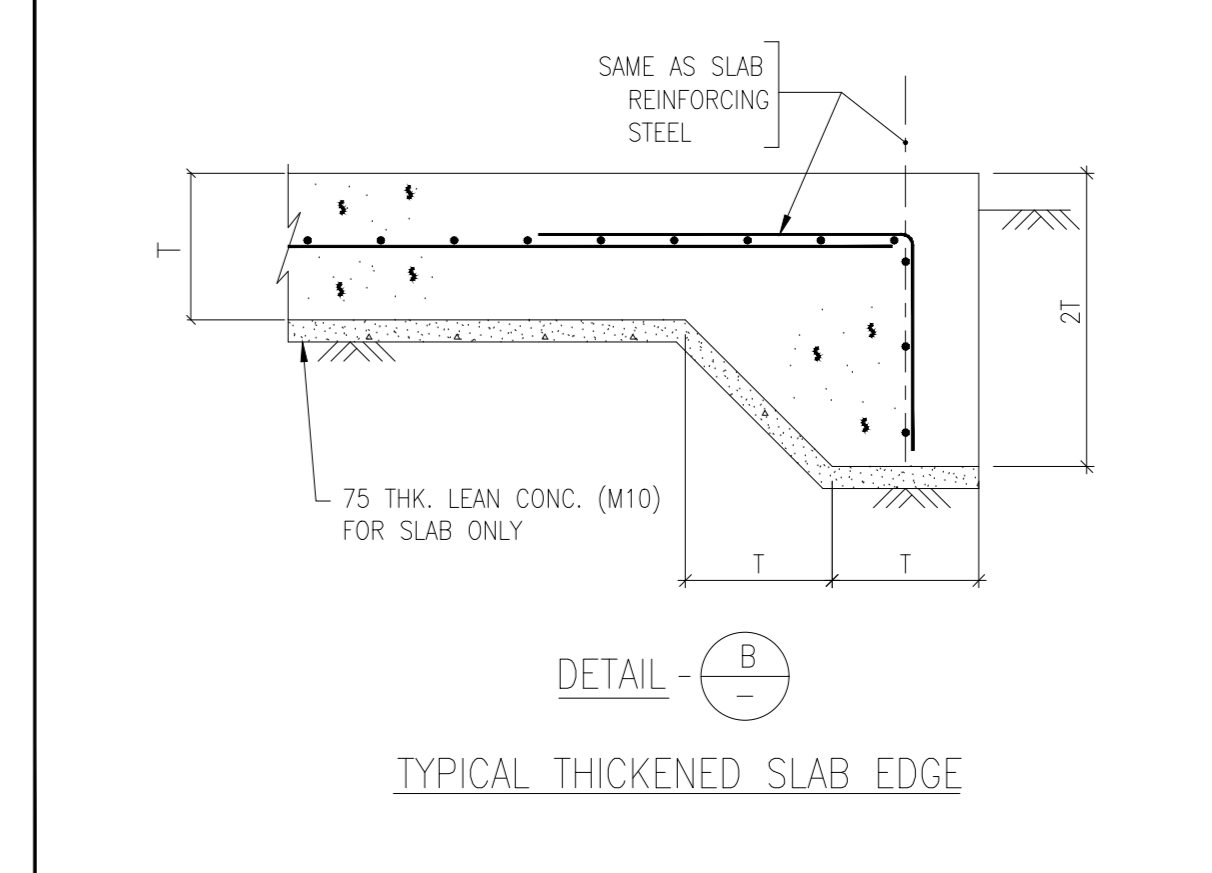
FILE LOCATION: E:\M\IFFCO BOILER CONTROL ROOM\Drawing Prep\IFFCO CS PROGRESS DRGS UPTO 24-09-19\For IFC\Drawing List - Civil.dwg  
 PLOT DATE: 9/24/2019 5:32:39 PM





SQUARE PLATES					
ITEM MARKED	"V" x "H"	"I"	LUGS - NOS	LOCATION	BEARING PLATE (BP)
EP-100	100	8	ROUND 12 - 4 NOS	1, 2, 3, 4	NIL
EP-150	150	8	ROUND 12 - 4 NOS		
EP-200	200	10	FLAT 25 - 4 NOS	1, 2, 3, 4	NIL
EP-250	250	12	FLAT 25 - 8 NOS		
EP-300	300	12	FLAT 50 - 8 NOS	1 THRU. B & 15	100x40x16 THICK
EP-400	400	12	FLAT 50 - 10 NOS	1, 2, 3, 4	NIL
EP-450	450	12	FLAT 50 - 10 NOS	1 THRU. 8, 13, 14	NIL
EP-500	500	12	FLAT 50 - 14 NOS		
EP-600	600	16	FLAT 50 - 14 NOS	1 THRU. 14	NIL

RECTANGULAR PLATES					
ITEM MARKED	"V" x "H"	"I"	LUGS - NOS	LOCATION	BEARING PLATE (BP)
EP-201	200 x 100	8	ROUND 12 - 6 NOS	1 THRU. 6	NIL
EP-302	300 x 200	10	FLAT 50 - 4 NOS	1 THRU. 4 & 15	100 x 40 x 16 TH.
EP-403	400 x 300	12	FLAT 50 - 10 NOS	1 THRU. 8, 13, 14	NIL
EP-504	500 x 400	12	FLAT 50 - 14 NOS		
EP-604	600 x 400	16	FLAT 50 - 14 NOS	1 THRU. 14	100 x 40 x 16 TH.
EP-251	250 x 150	12	FLAT 25 - 6 NOS	1 THRU. 6	NIL
EP-252	250 x 200	12	FLAT 50 - 6 NOS	1 THRU. 4 & 15	
EP-352	350 x 250	12	FLAT 50 - 6 NOS	1 THRU. 6 & 15	100 x 40 x 16 TH.
EP-452	450 x 250	12	FLAT 50 - 10 NOS	1 THRU. 6, 9 THRU. 12, & 15	
EP-652	650 x 250	16	FLAT 50 - 14 NOS		



**LUGS FOR EPS.**

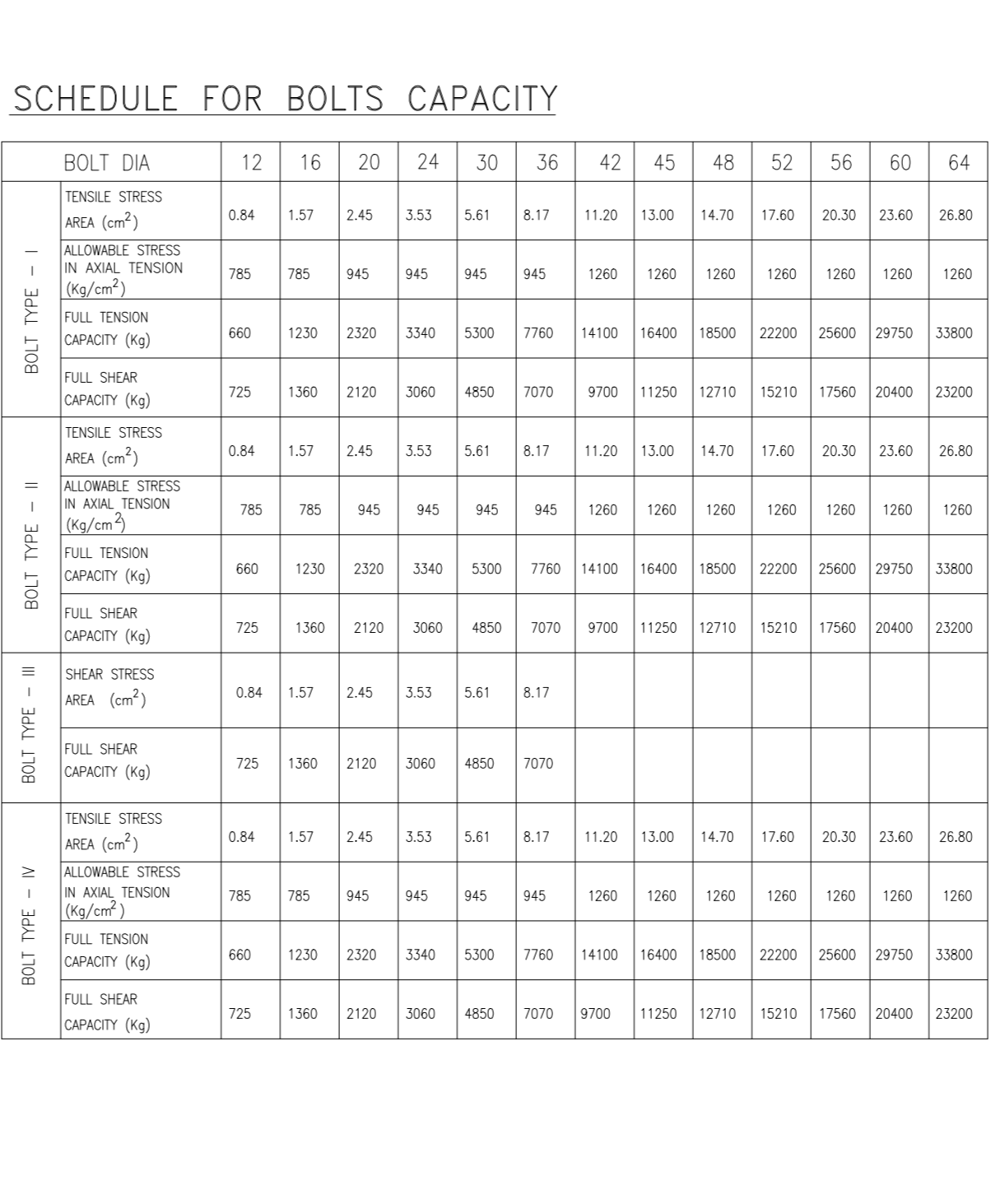
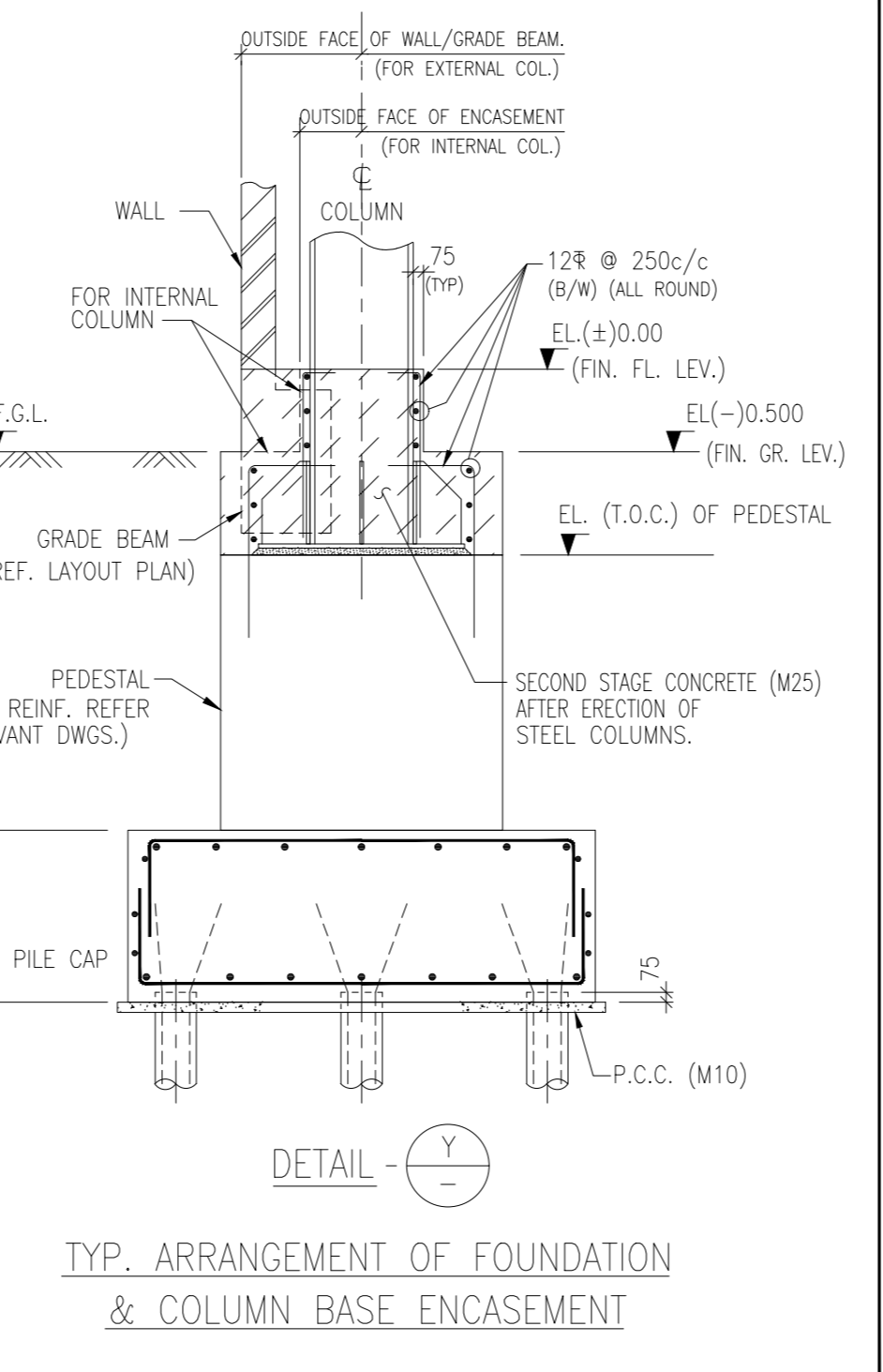
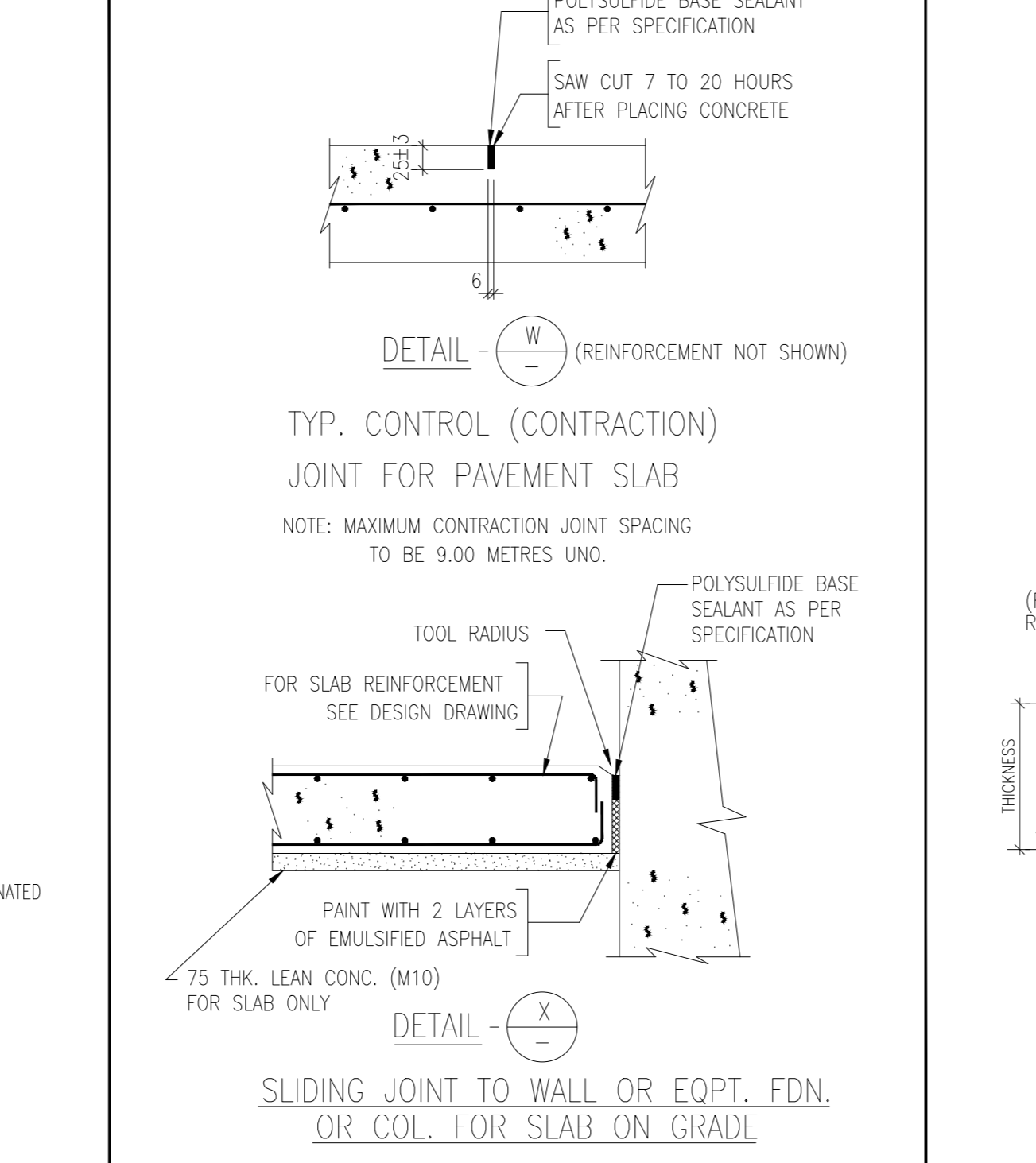
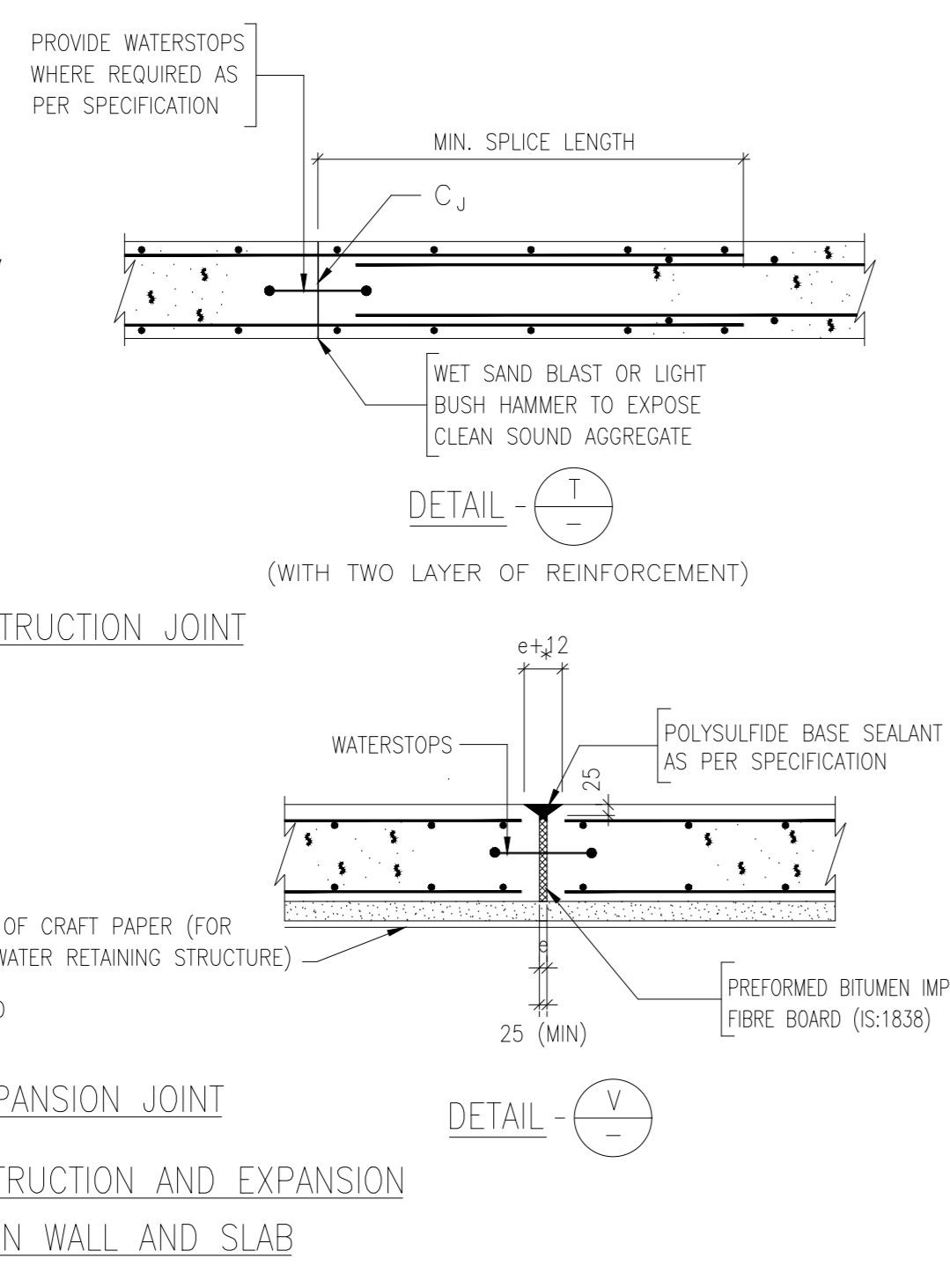
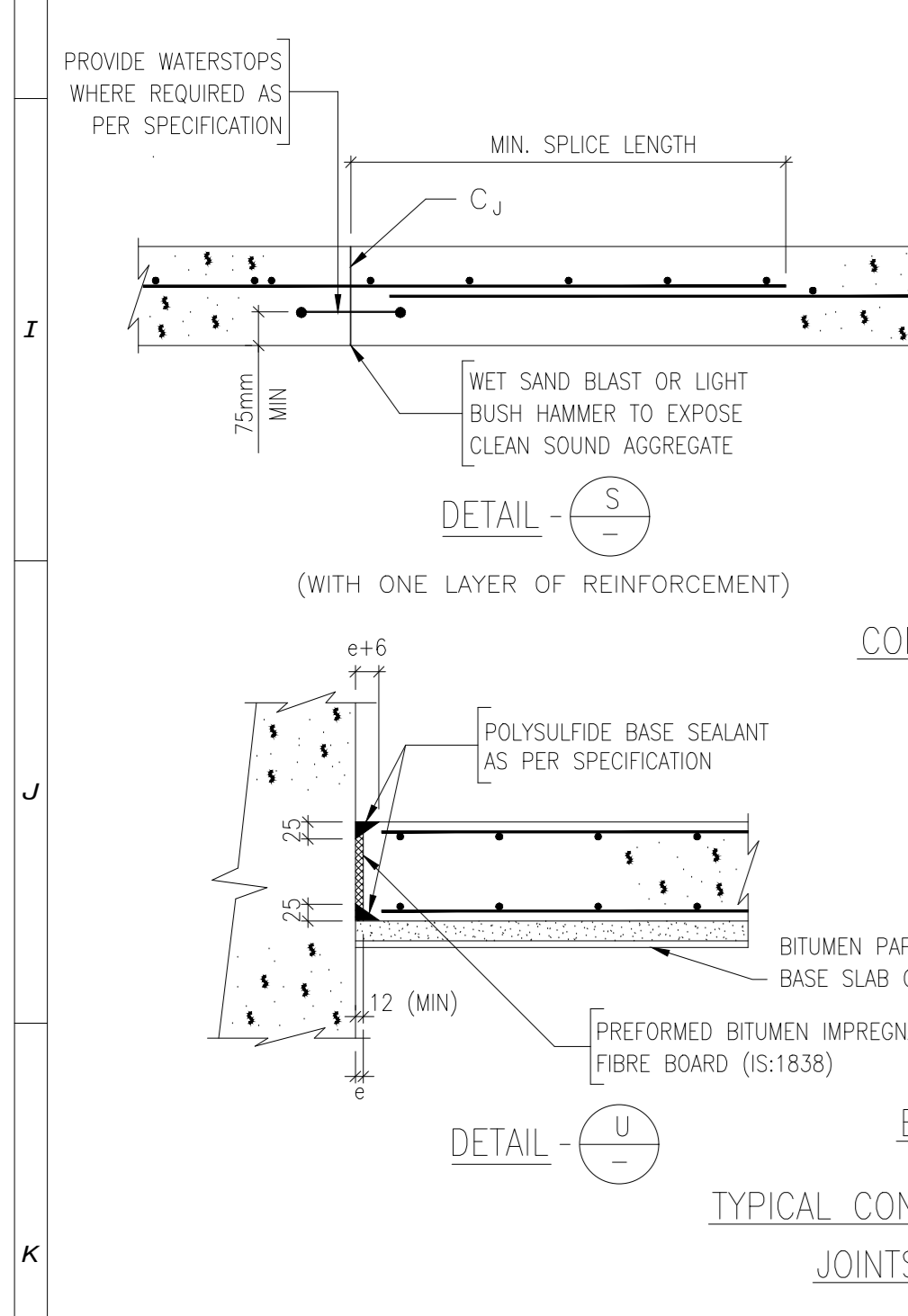
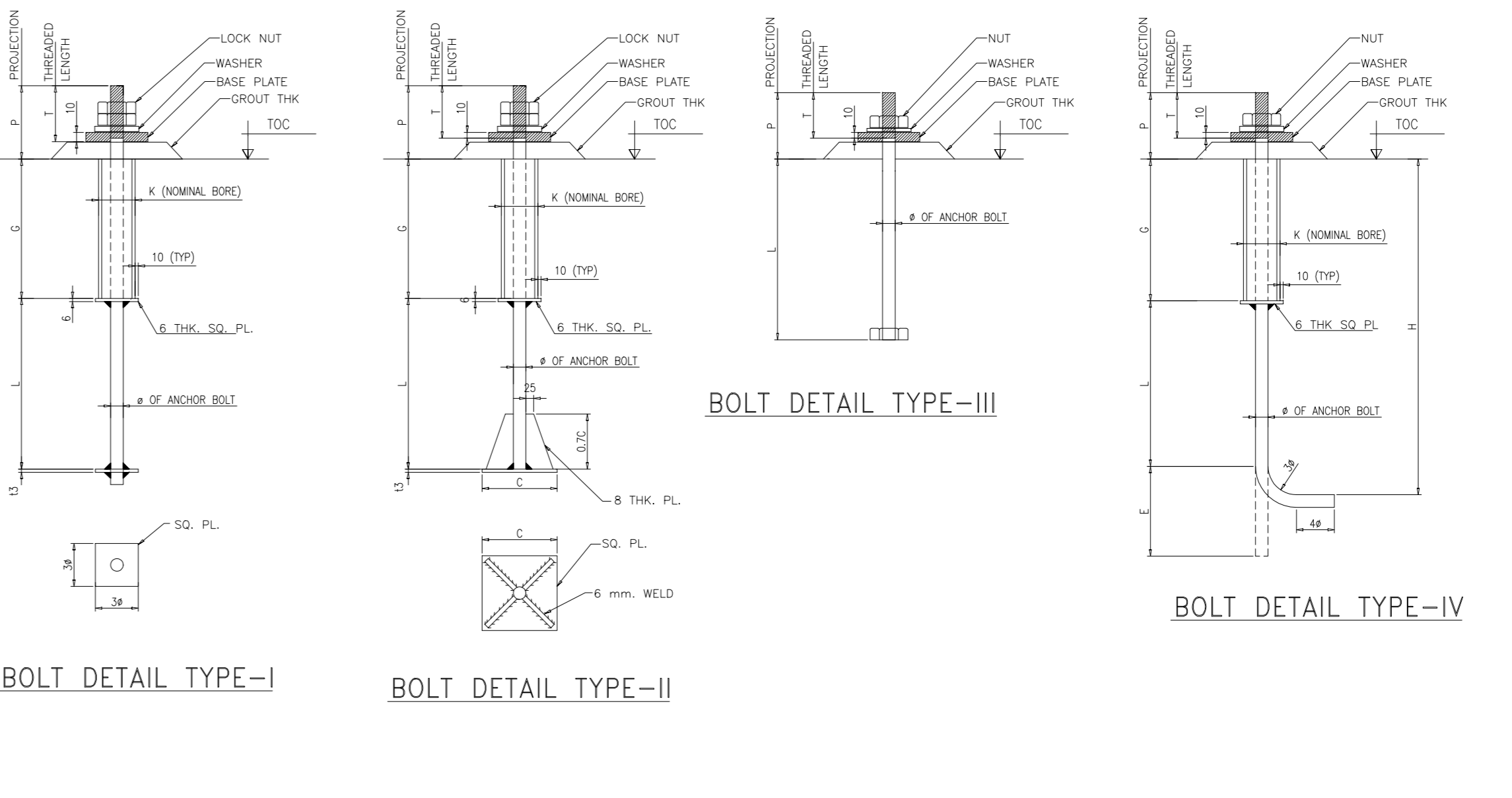
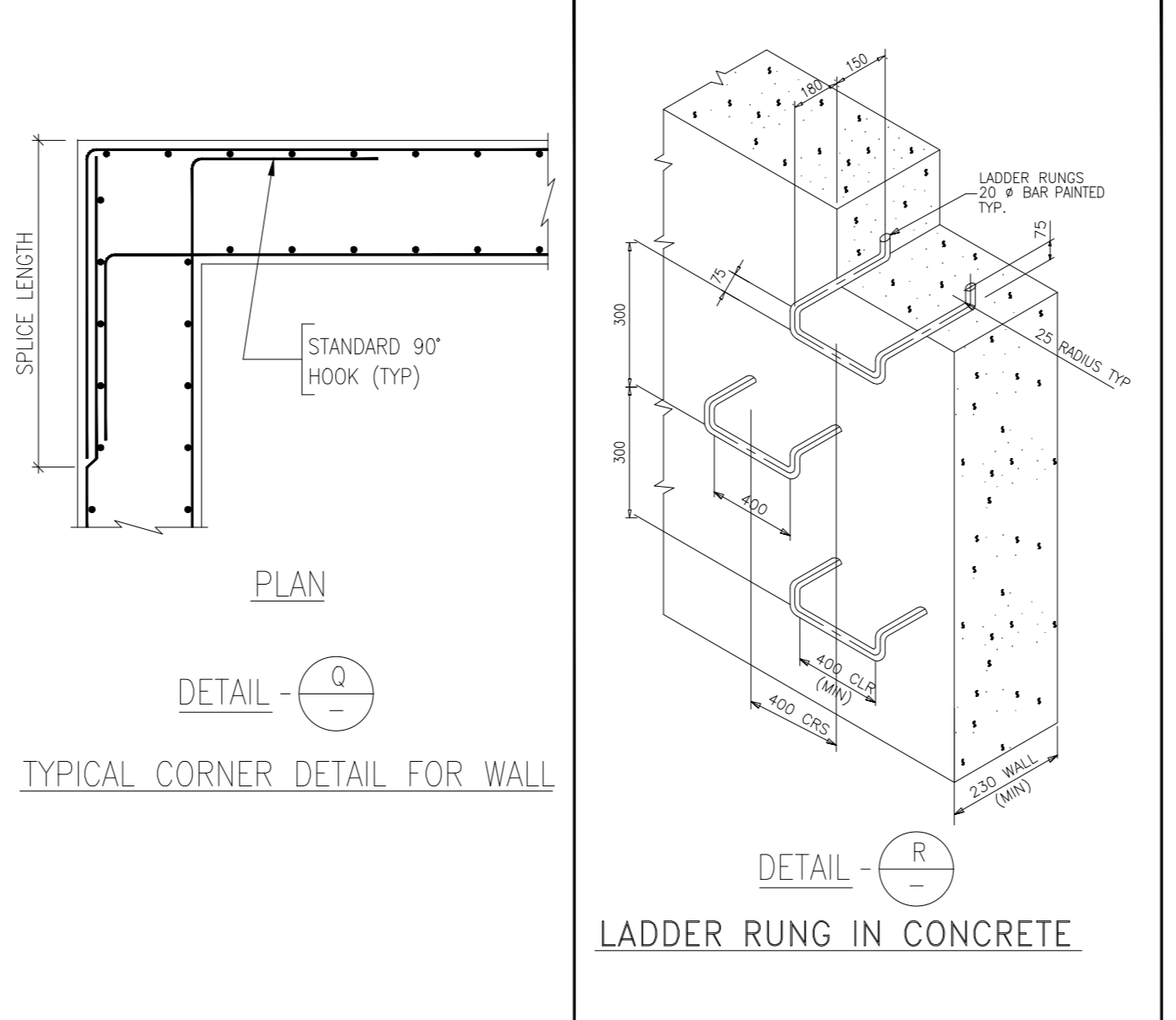
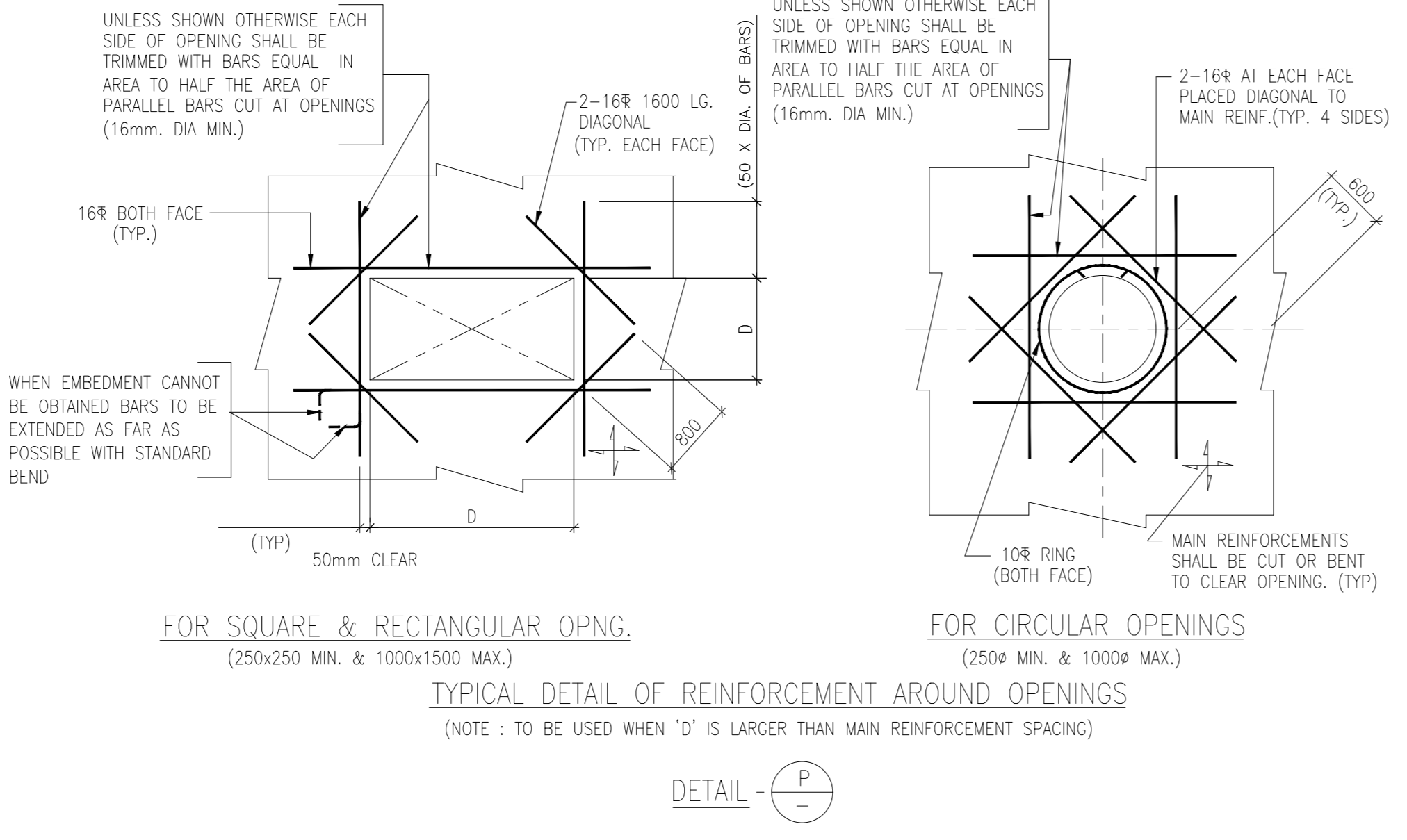
TYPE	DESCRIPTION
FLAT - 25	25x6 THx400 LG.
FLAT - 50	50x6 THx450 LG.
ROUND - 12	12x20 LG.
ROUND - 16	16x30 LG.

**CORNER ANGLE.**

CORNER ANGLE MARK	SECTION USED	LUG TO DIA. BAR
ISA - 45	ISA 45x45x5	25x6 TH. FLAT
ISA - 50	ISA 50x50x5	
ISA - 75	ISA 75x75x6	
ISA - 100	ISA 100x100x8	

**WELDING OF LUGS**

**DETAIL - N**



**SCHEDULE FOR BOLTS CAPACITY**

BOLT DIA.	EMBEDMENT DEPTH				BOLT DIA (R) IN mm.											
	12	16	20	24	30	36	42	45	48	52	56	60	64			
M20x5	I & II	C	1	45	55	60	70	80	85	100	110	120	125	135	140	150
			2	60	70	80	90	110	130	150	160	160	180	200	215	
			3	150	150	300	300	450	450	450	450	450	450	450	450	450

**ISSUED FOR CONSTRUCTION**

OWNER: IFFCO PARADEEP

PROJECT: IFFCO PARADEEP AFBC BOILER CONTROL ROOM

TITLE: CONCRETE WORKS STANDARD DETAILS

DEVELOPMENT CONSULTANTS PVT LTD. CONSULTING ENGINEERS

COULDATA - MUMBAI - CHENNAI - NEW DELHI

PREPARED: ASHS  
CHECKED: NUC  
APPROVED: A.S.P

SCALE: 1:1  
DATE: 22.02.2019

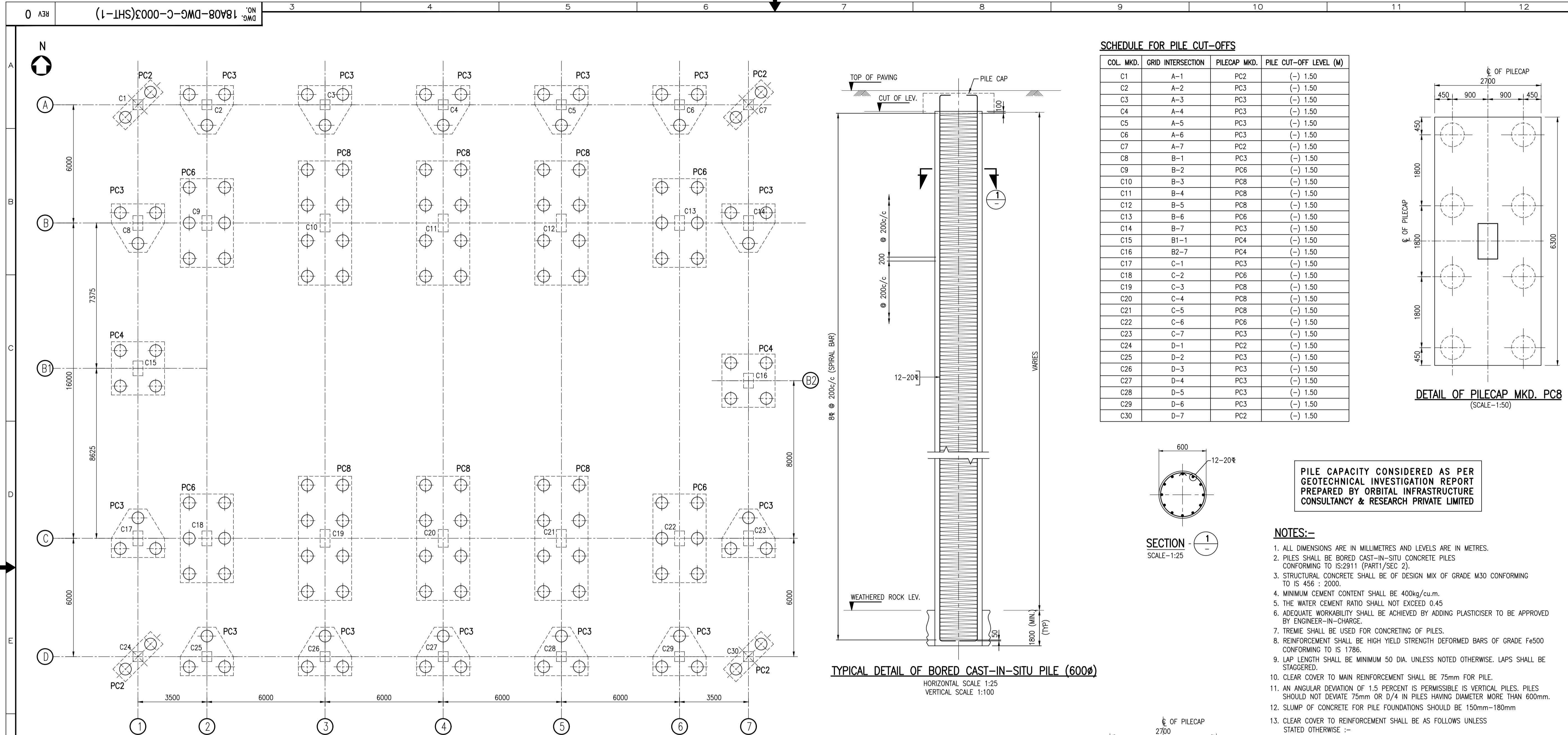
JOB NO: 18A08  
DATE: 22.02.2019

DWG. NO: 18A08-DWG-C-002

RELEASED ON: 23.09.19

APPROVED: MECH. INST. ELEC. STRL. ARCH.

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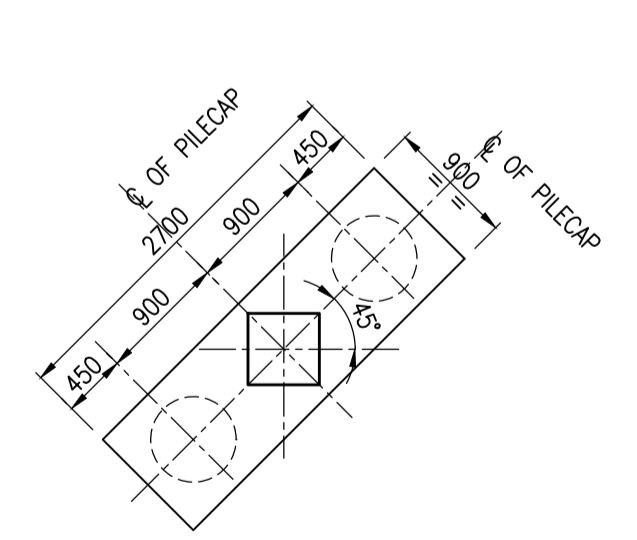


**LAYOUT OF PILE**  
(SCALE-1:100)  
(UNLESS OTHERWISE CONNECTION CENTER LINE OF COLUMN COINCIDE WITH CENTER LINE OF PILE CAP)

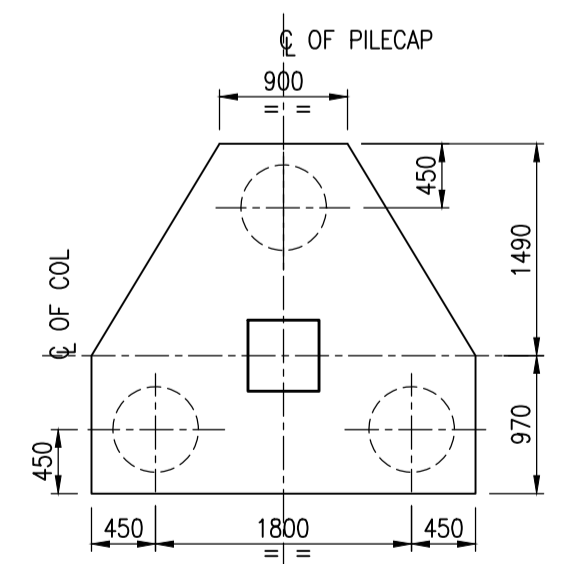
**SCHEDULE OF PILE**

PILE CAPACITY	SYMBOL	PILE DIA (NOMINAL)	NO. OF PILE	LENGTH BELOW CUT-OFF LEVEL	REMARKS
COMP.	76 M.T	600mm.	130	AS PER CRITERIA SUBJECT TO MINIMUM LENGTH OF 16.5M. BELOW PILE CUT-OFF LEVEL.	ALL PILES ARE BORED CAST-IN-SITU CONCRETE PILES.
TEN.	35 M.T				
LAT.	8.9 M.T				

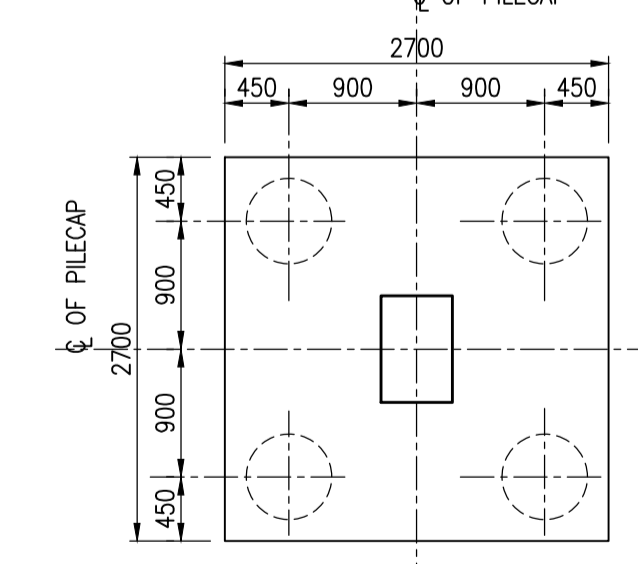
PILE CAP MKD.	NO. OF PILES IN PILE CAP
PC2	2
PC3	3
PC4	4
PC6	6
PC8	8



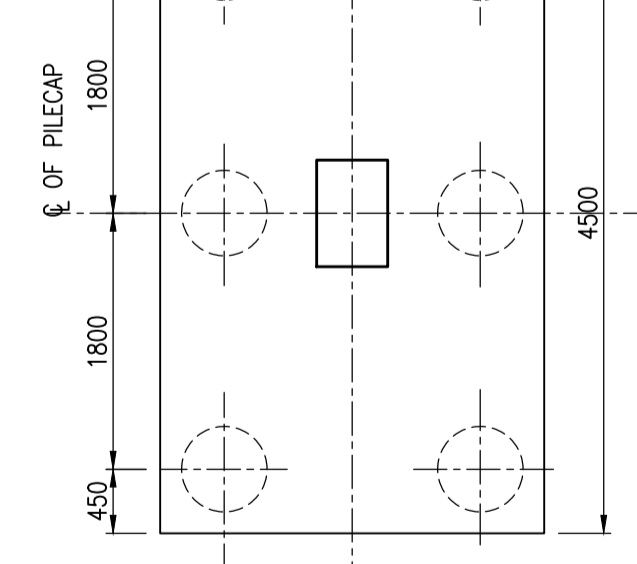
**DETAIL OF PILECAP MKD. PC2**  
(SCALE-1:50)



**DETAIL OF PILECAP MKD. PC3**  
(SCALE-1:50)



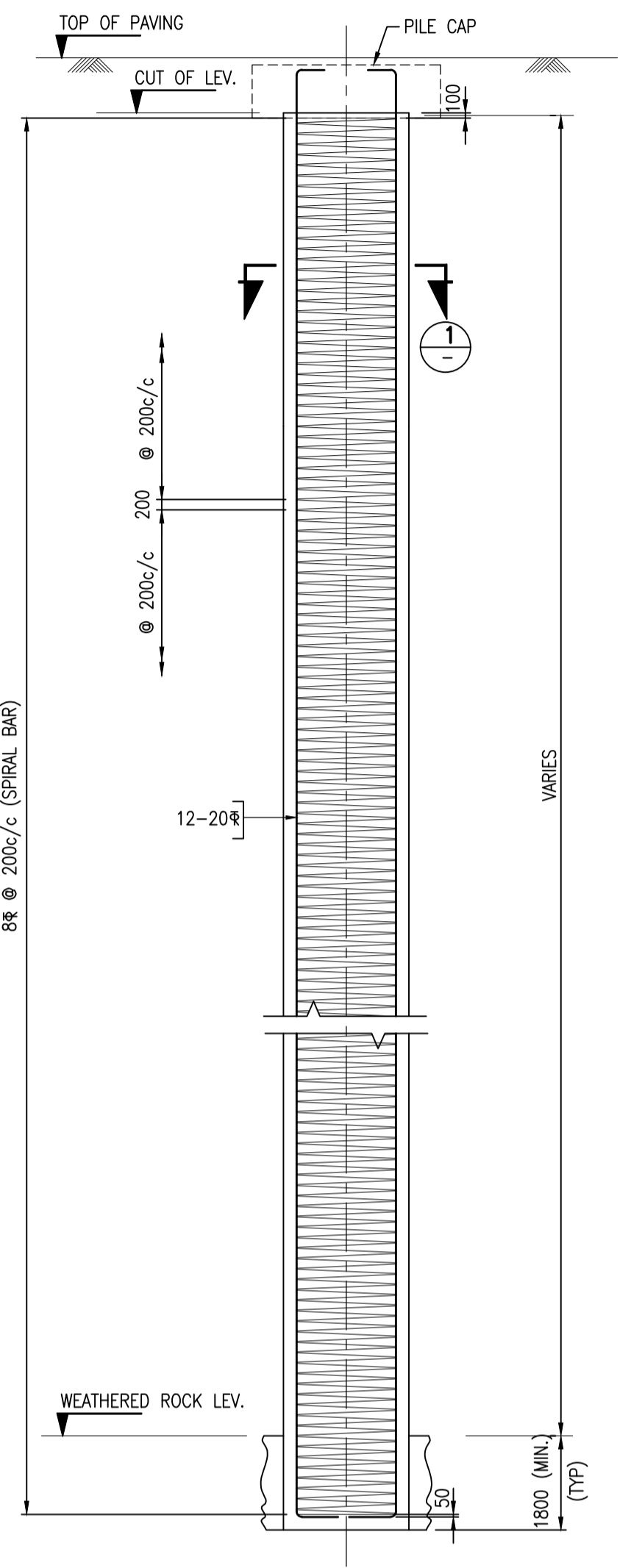
**DETAIL OF PILECAP MKD. PC4**  
(SCALE-1:50)



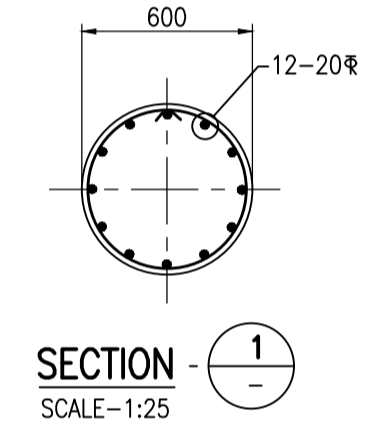
**DETAIL OF PILECAP MKD. PC6**  
(SCALE-1:50)

**SCHEDULE FOR PILE CUT-OFFS**

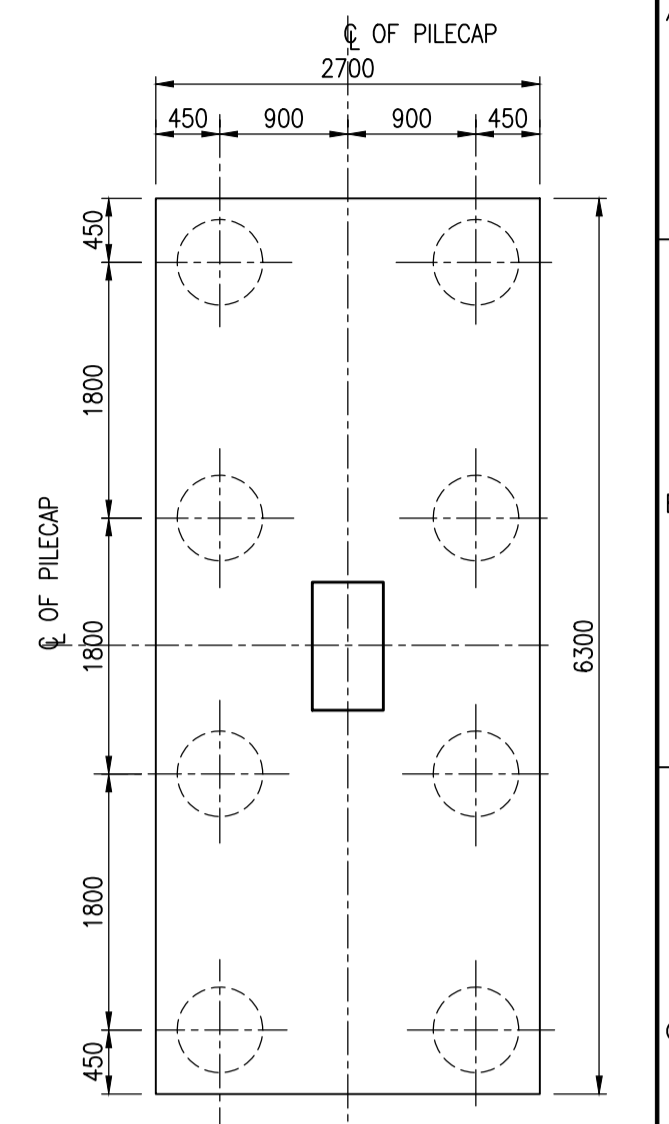
COL. MKD.	GRID INTERSECTION	PILECAP MKD.	PILE CUT-OFF LEVEL (M)
C1	A-1	PC2	(-) 1.50
C2	A-2	PC3	(-) 1.50
C3	A-3	PC3	(-) 1.50
C4	A-4	PC3	(-) 1.50
C5	A-5	PC3	(-) 1.50
C6	A-6	PC3	(-) 1.50
C7	A-7	PC2	(-) 1.50
C8	B-1	PC3	(-) 1.50
C9	B-2	PC6	(-) 1.50
C10	B-3	PC8	(-) 1.50
C11	B-4	PC8	(-) 1.50
C12	B-5	PC8	(-) 1.50
C13	B-6	PC6	(-) 1.50
C14	B-7	PC3	(-) 1.50
C15	B1-1	PC4	(-) 1.50
C16	B2-7	PC4	(-) 1.50
C17	C-1	PC3	(-) 1.50
C18	C-2	PC6	(-) 1.50
C19	C-3	PC8	(-) 1.50
C20	C-4	PC8	(-) 1.50
C21	C-5	PC8	(-) 1.50
C22	C-6	PC6	(-) 1.50
C23	C-7	PC3	(-) 1.50
C24	D-1	PC2	(-) 1.50
C25	D-2	PC3	(-) 1.50
C26	D-3	PC3	(-) 1.50
C27	D-4	PC3	(-) 1.50
C28	D-5	PC3	(-) 1.50
C29	D-6	PC3	(-) 1.50
C30	D-7	PC2	(-) 1.50



**TYPICAL DETAIL OF BORED CAST-IN-SITU PILE (600Ø)**  
HORIZONTAL SCALE 1:25  
VERTICAL SCALE 1:100



**SECTION 1-1**  
SCALE-1:25



**DETAIL OF PILECAP MKD. PC8**  
(SCALE-1:50)

PILE CAPACITY CONSIDERED AS PER GEOTECHNICAL INVESTIGATION REPORT PREPARED BY ORBITAL INFRASTRUCTURE CONSULTANCY & RESEARCH PRIVATE LIMITED

**NOTES:-**

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES.
- PILES SHALL BE BORED CAST-IN-SITU CONCRETE PILES CONFORMING TO IS:2911 (PART1/SEC 2).
- STRUCTURAL CONCRETE SHALL BE OF DESIGN MIX OF GRADE M30 CONFORMING TO IS 456 : 2000.
- MINIMUM CEMENT CONTENT SHALL BE 400kg/cu.m.
- THE WATER CEMENT RATIO SHALL NOT EXCEED 0.45
- ADEQUATE WORKABILITY SHALL BE ACHIEVED BY ADDING PLASTICISER TO BE APPROVED BY ENGINEER-IN-CHARGE.
- TREMIE SHALL BE USED FOR CONCRETING OF PILES.
- REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS OF GRADE Fe500 CONFORMING TO IS 1786.
- LAP LENGTH SHALL BE MINIMUM 50 DIA. UNLESS NOTED OTHERWISE. LAPS SHALL BE STAGGERED.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE 75mm FOR PILE.
- AN ANGULAR DEVIATION OF 1.5 PERCENT IS PERMISSIBLE IN VERTICAL PILES. PILES SHOULD NOT DEVIATE 75mm OR D/4 IN PILES HAVING DIAMETER MORE THAN 600mm.
- SLUMP OF CONCRETE FOR PILE FOUNDATIONS SHOULD BE 150mm-180mm
- CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS UNLESS STATED OTHERWISE :-

SUBSTRUCTURE WORKS	BOTTOM	SIDES	TOP	ENDS
i) PILE CAPS	100	50	50	50

**REF DWGS:**

- 18A08-DWG-E-0401 - ELECTRICAL DWG.
- 18A08-DWG-A-0002 TO 0006 - ARCHITECTURAL DWG.
- 18A08-DWG-M-0001 TO 0007 - MECHANICAL DWG. (FIRE DETECTION AND PROTECTION)
- 18A08-DWG-C-0001,0002 & C-0004 & 0007 - CIVIL & STRUCTURAL DWG.
- 18A08-03-DWG-VA-001 - HVAC LAYOUT
- 18A08-03-DWG-VA-002 - HVAC POWER DISTRIBUTION SCHEME.

**ISSUED FOR CONSTRUCTION**

**IFFCO** PARADEEP  
OWNER: **IFFCO** PARADEEP

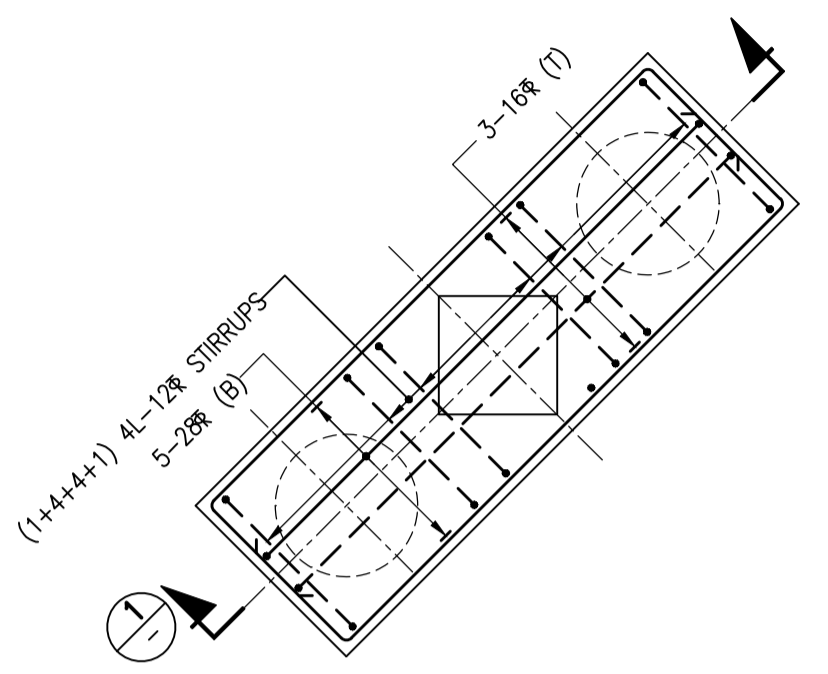
PROJECT: **IFFCO PARADEEP AFBC BOILER CONTROL ROOM**

TITLE: **CONTROL BUILDING LAYOUT OF PILE & PILE CAP**

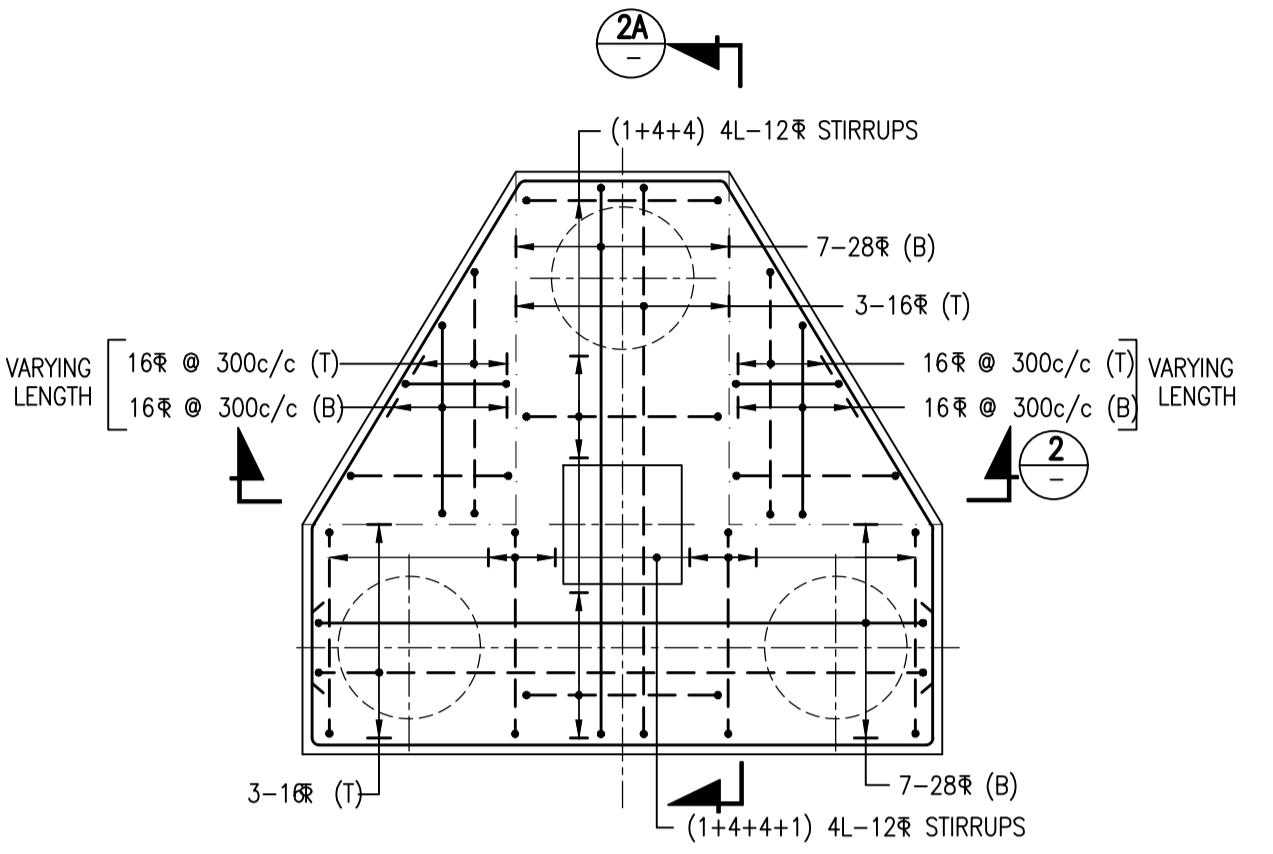
**DEVELOPMENT CONSULTANTS PVT LTD.**  
CONSULTING ENGINEERS  
KOLKATA • MUMBAI • CHENNAI • NEW DELHI

PREPARED	Prosenjit	JOB NO.	18A08
CHECKED	NC	SCALE	AS NOTED
APPROVED	AR	DATE	22.02.2019
DWG. NO.	18A08-DWG-C-0003		

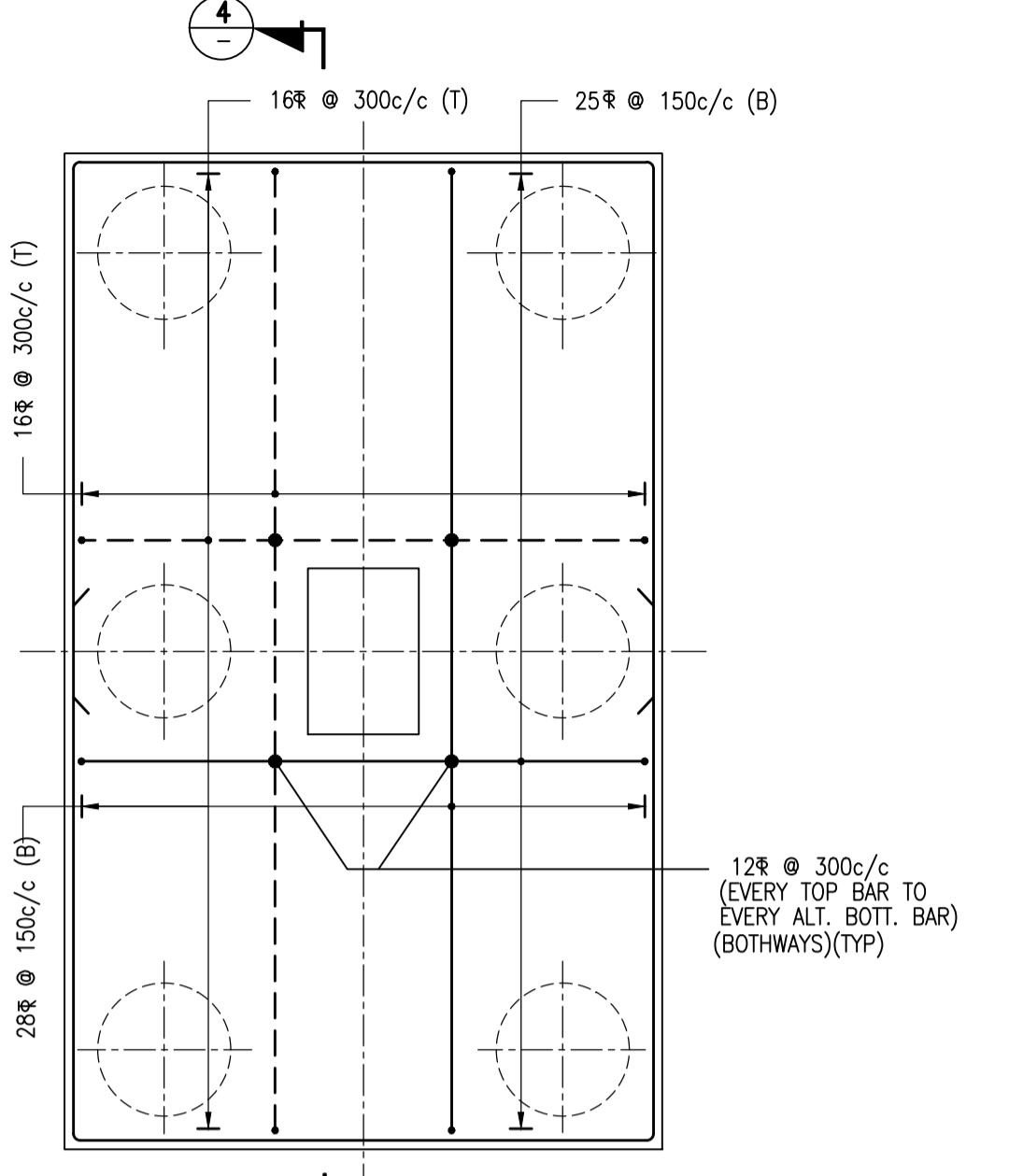
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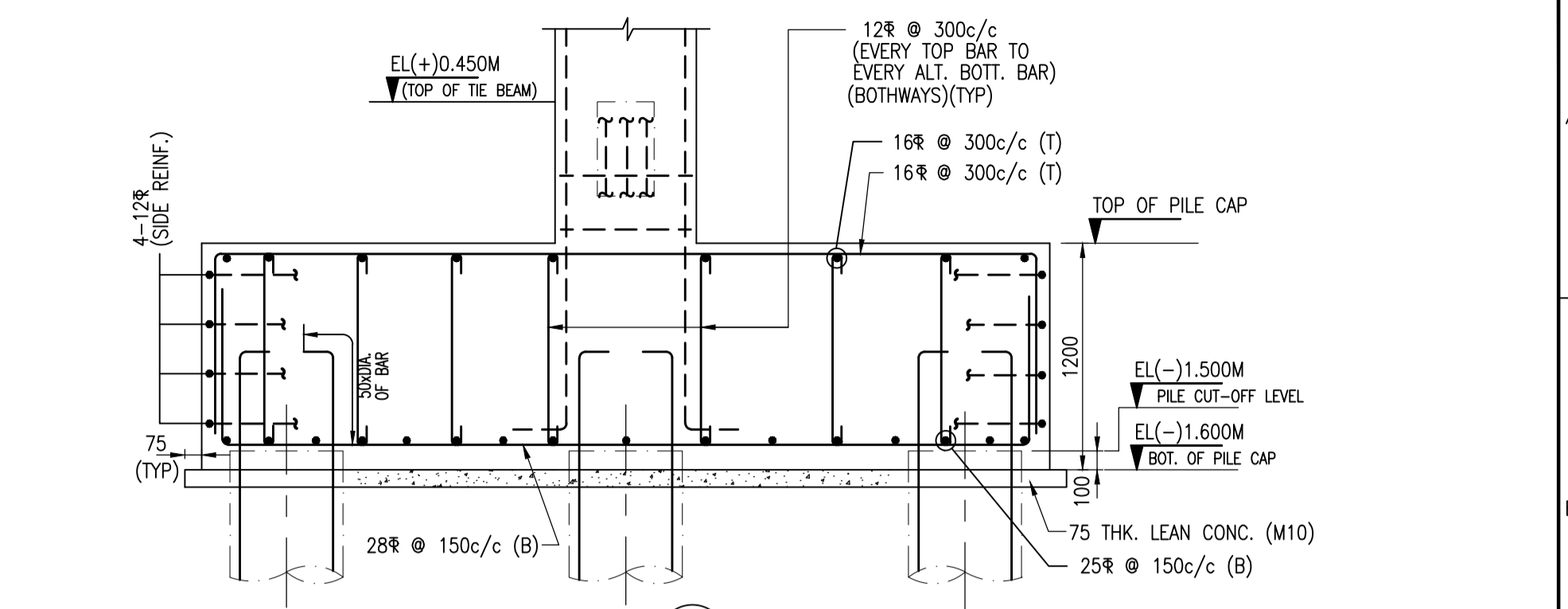
DETAIL OF PILECAP MKD. PC2  
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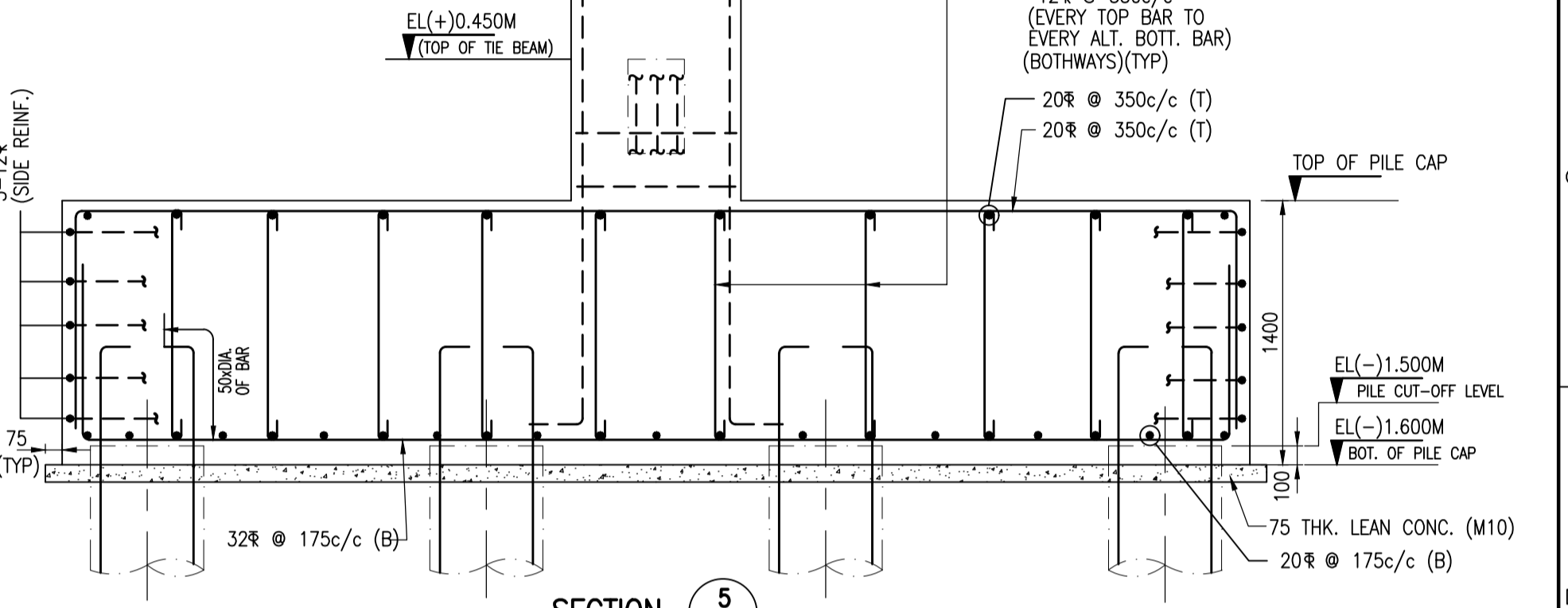
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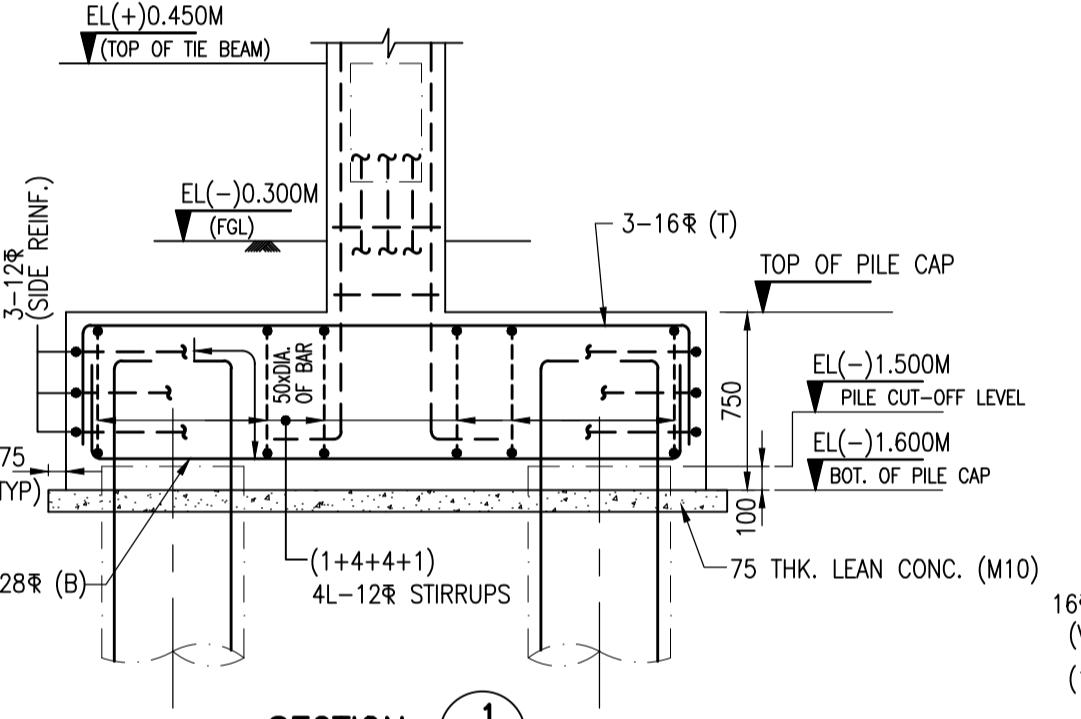
DETAIL OF PILECAP MKD. PC6  
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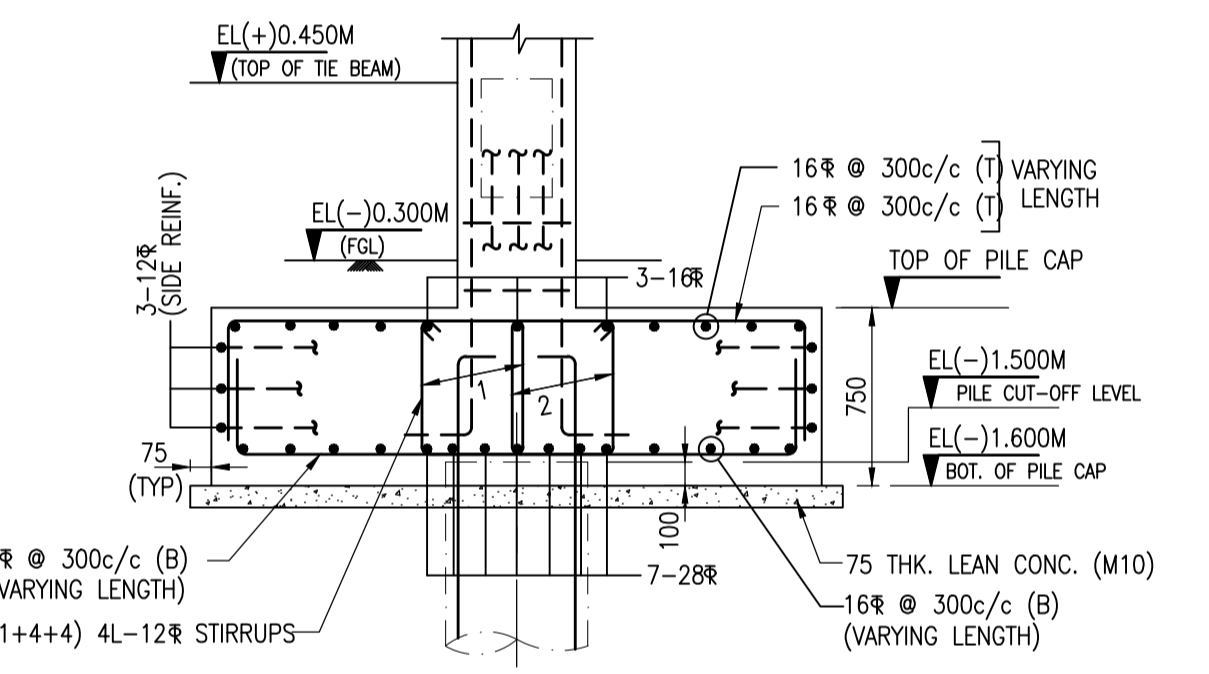
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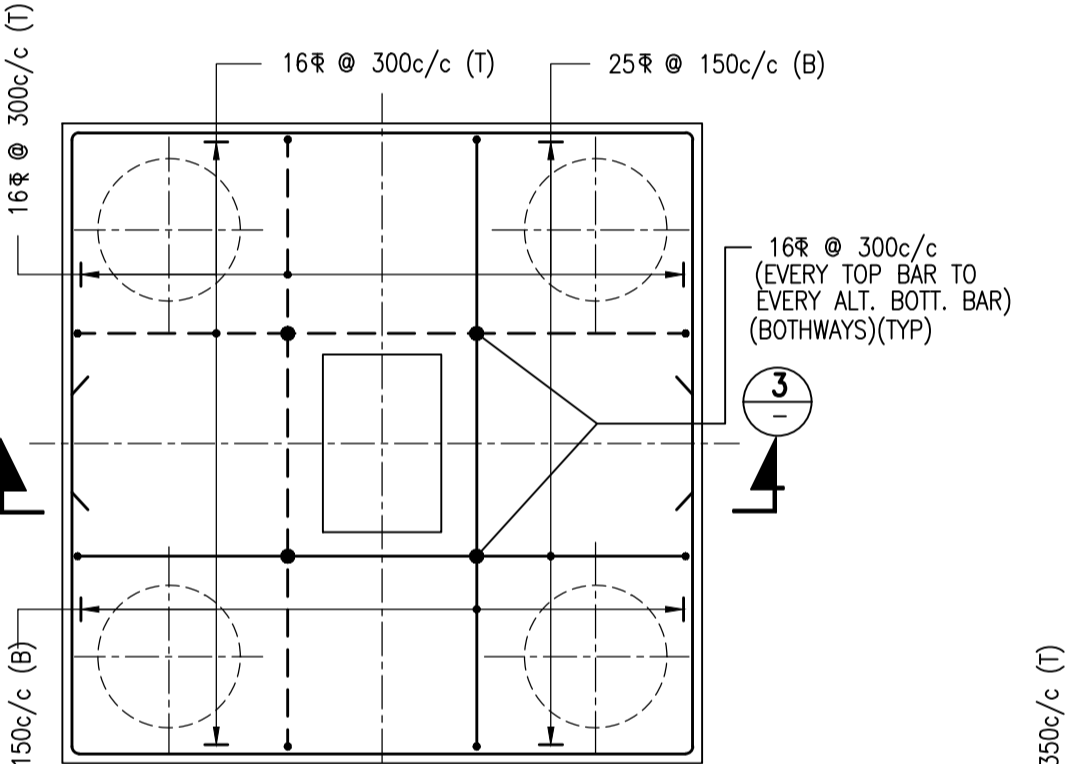
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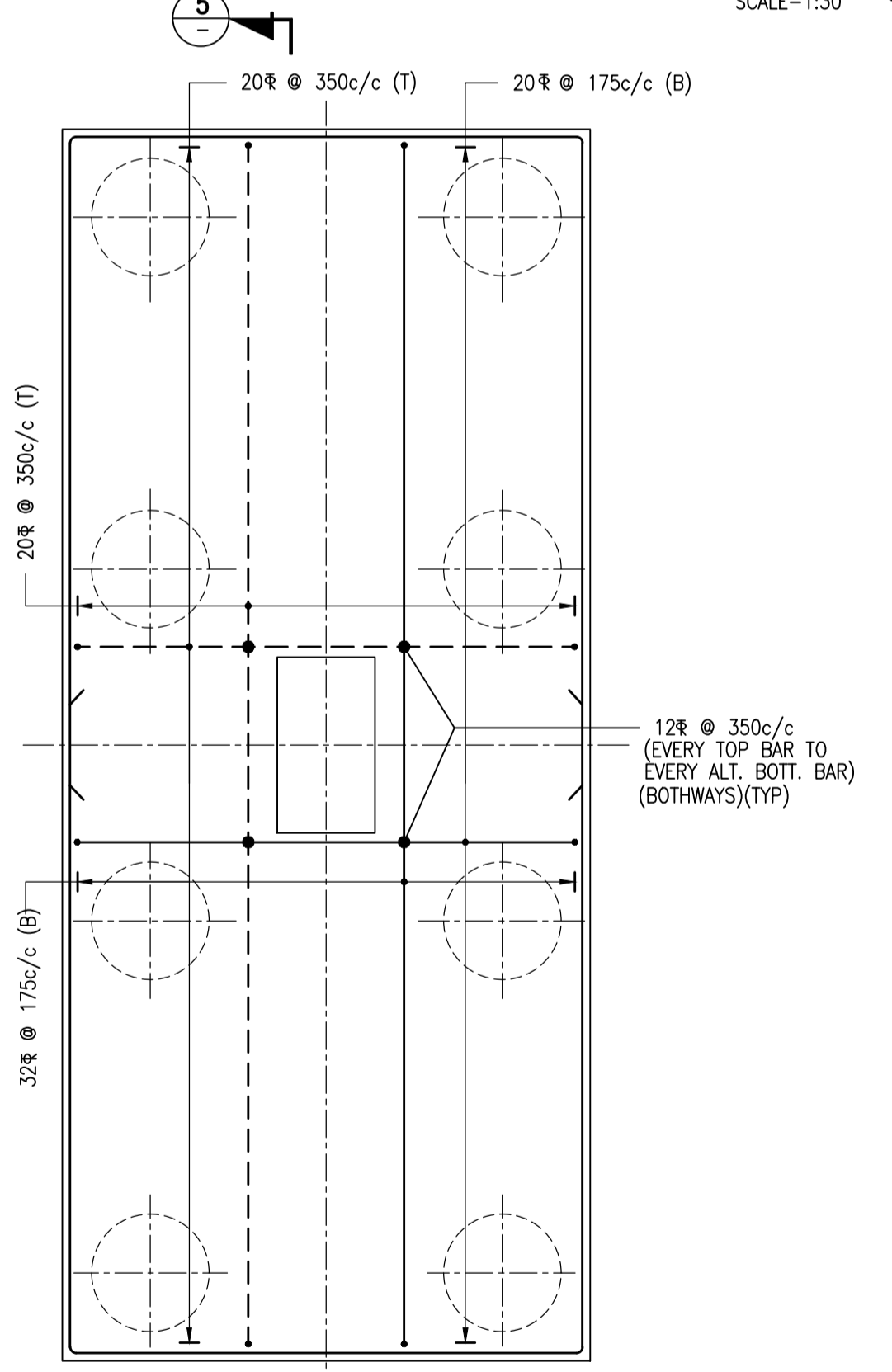
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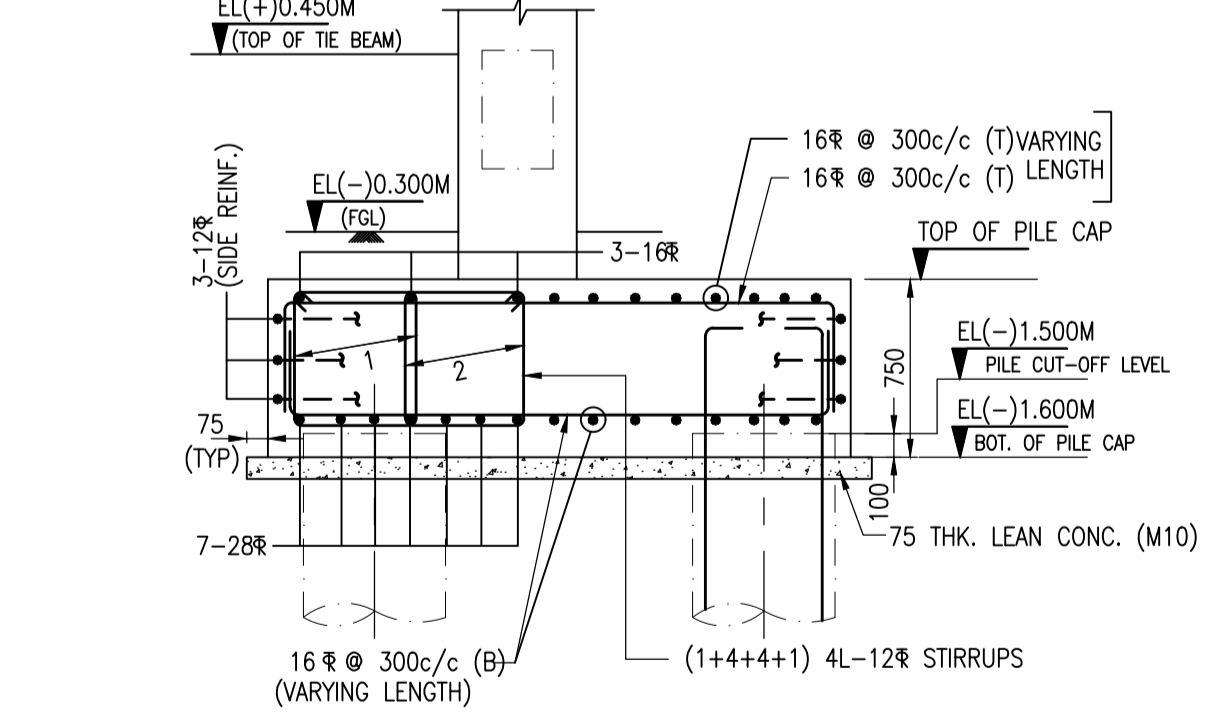
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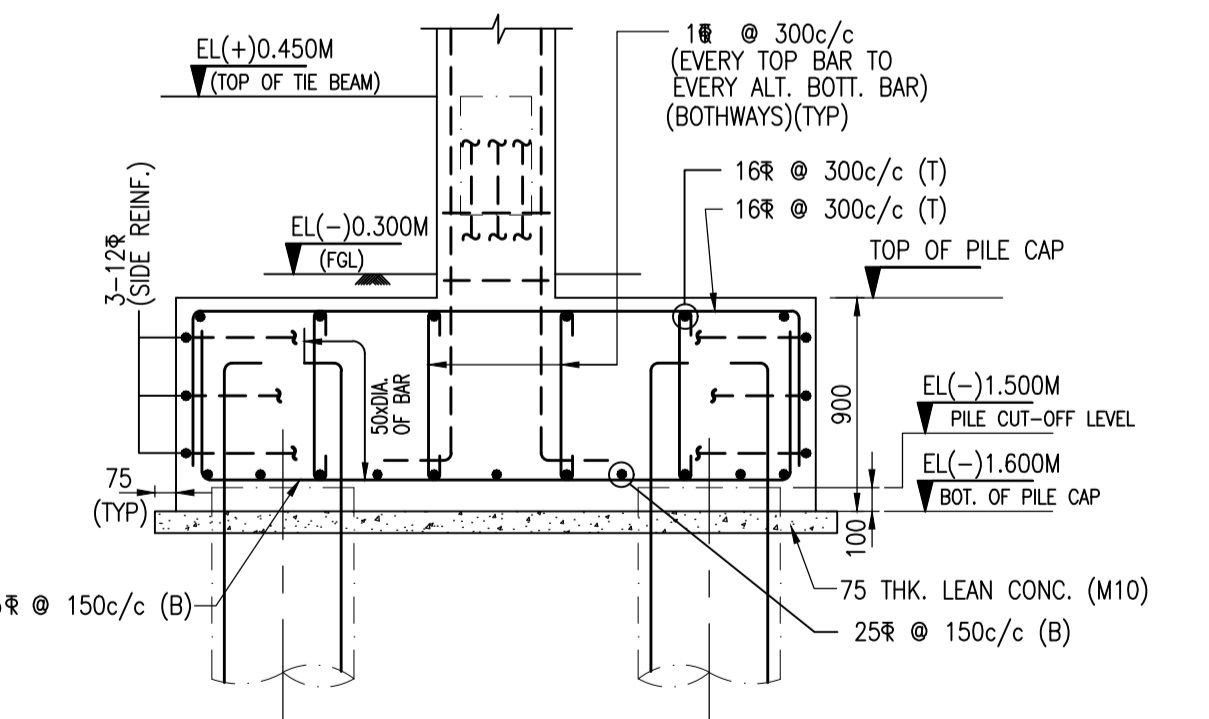
DETAIL OF PILECAP MKD. PC4  
(SCALE-1:30)



DETAIL OF PILECAP MKD. PC8  
(SCALE-1:30)



SECTION - 2A  
SCALE-1:30



SECTION - 3  
SCALE-1:30

**LEGENDS:-**  
 --- TOP REINFORCEMENT  
 --- BOTTOM REINFORCEMENT

**NOTES:-**  
 1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES.  
 2. FOR ALL OTHER NOTES REF. DWG. NO. 18A08-DWG-C-0003(SHT-1)

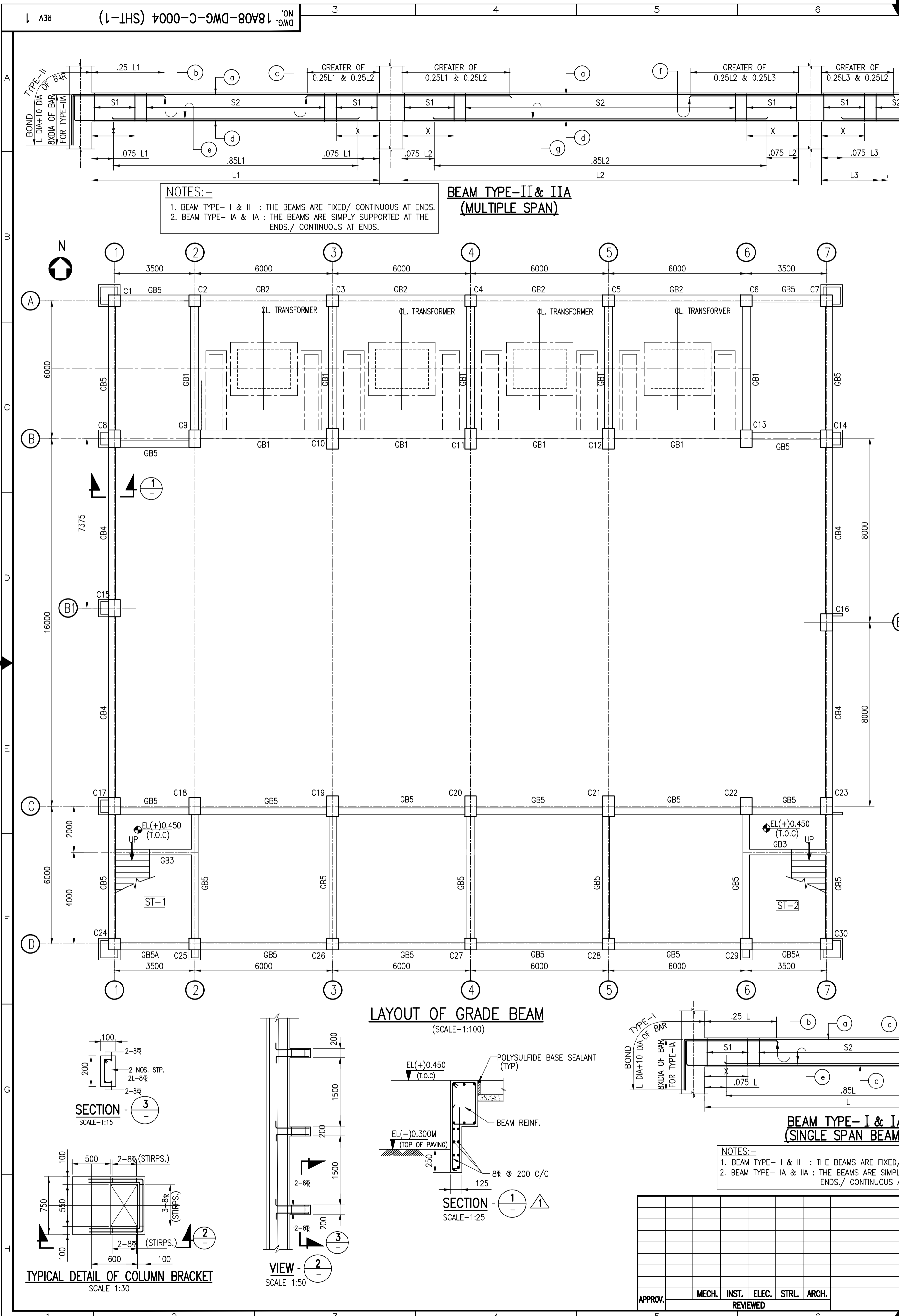
**REF DWGS:**  
 1. 18A08-DWG-E-0401 - ELECTRICAL DWG.  
 2. 18A08-DWG-A-0002 TO 0006 - ARCHITECTURAL DWG.  
 3. 18A08-DWG-M-0001 TO 0007 - MECHANICAL DWG. (FIRE DETECTION AND PROTECTION)  
 4. 18A08-DWG-C-0001,0002 & C-0004 & 0007 - CIVIL & STRUCTURAL DWG.  
 5. 18A08-03-DWG-VA-001 - HVAC LAYOUT  
 6. 18A08-03-DWG-VA-002 - HVAC POWER DISTRIBUTION SCHEME.

**ISSUED FOR CONSTRUCTION**

<b>IFFCO</b> PARADEEP	<b>OWNER:</b> IFFCO PARADEEP
<b>PROJECT:</b> IFFCO PARADEEP AFBC BOILER CONTROL ROOM	
<b>TITLE:</b> CONTROL BUILDING RC DETAILS OF PILE CAPS	

<b>DEVELOPMENT CONSULTANTS PVT LTD.</b> CONSULTING ENGINEERS KOLKATA · MUMBAI · CHENNAI · NEW DELHI	
<b>PREPARED</b> CHECKED APPROVED	Prosenjit NC AR
<b>JOB NO.</b> SCALE DATE	18A08 AS NOTED 15.03.2019
<b>DWG. NO.</b> 18A08-DWG-C-0003	<b>REV 0</b> 2 SHEET OF

APPROV.	MECH.	INST.	ELEC.	STR.	ARCH.	NATURE OF REVISION & DESCRIPTION	CHECKED	DRAWN	REV.	DATE



**NOTES:-**  
 1. BEAM TYPE- I & II : THE BEAMS ARE FIXED/ CONTINUOUS AT ENDS.  
 2. BEAM TYPE- IA & IIA : THE BEAMS ARE SIMPLY SUPPORTED AT THE ENDS./ CONTINUOUS AT ENDS.

**BEAM TYPE-II & IIA (MULTIPLE SPAN)**

SCHEDULE OF COLUMNS												
LEVEL	REINFORCEMENT	LINK	REINFORCEMENT	LINK	REINFORCEMENT	LINK	REINFORCEMENT	LINK	REINFORCEMENT	LINK	REINFORCEMENT	LINK
ROOF LEVEL TO ABOVE ROOF LEVEL EL(+)+14.950M TO EL(+)+17.950M & EL(+)+19.950M	8-20R	2 SET - 8R @ 200 C/C	8-20R	2 SET - 8R @ 200 C/C	8-25R	2 SET - 8R @ 200 C/C	8-25R	2 SET - 8R @ 200 C/C	-	-	8-25R	2 SET - 8R @ 200 C/C
2nd. FLOOR TO ROOF LEVEL EL(+)+14.950M TO EL(+)+14.950M	8-20R	2 SET - 8R @ 200 C/C	8 - 25R	2 SET - 8R @ 200 C/C	12 - 25R	3 SET - 8R @ 200 C/C	12 - 32R + 6 - 28R	5 SET - 8R @ 200 C/C	12 - 32R + 6 - 28R	6 SET - 8R @ 200 C/C	12 - 28R	3 SET - 8R @ 200 C/C
FDN TO 2nd. FLOOR LEVEL EL(+)+9.450M (T.O.C) (FOR 2ND. FLOOR)	12-20R	3 SET - 8R @ 200 C/C	12 - 25R	3 SET - 8R @ 200 C/C	12 - 25R	3 SET - 8R @ 200 C/C	18 - 32R	5 SET - 8R @ 200 C/C	20 - 32R	6 SET - 8R @ 200 C/C	12 - 28R	3 SET - 8R @ 200 C/C
COL MARK	C1, C7, C24 & C30		C2, C3, C4, C5, C6, C25, C26, C27, C28 & C29		C8, C14, C17 & C23		C9, C13, C18 & C22		C10, C11, C12, C19, C20 & C21		C15, C16	

SCHEDULE OF BEAMS																	
BEAM MKD.	BEAM TYPE	BEAM WIDTH (mm)	BEAM DEPTH (mm)	ELEVATION (T.O.C)	REINFORCEMENTS							STIRRUPS			SIDE REINF. EACH FACE	REMARKS	
					a	b	c	d	e	f	g	S1	S2	X(mm.)			
GB1	I/II	350	600	EL(+)+0.450M	3-25R	2-20R	2-20R	3-25R	-	2-20R	-	-	4L-8R @ 150C/C	4L-8R @ 250C/C	2000	-	2nd. LAYER
GB2	II	300	600	EL(+)+0.450M	3-20R	-	-	3-20R	-	-	-	-	2L-8R @ 150C/C	2L-8R @ 250C/C	2000	-	-
GB3	IA	300	400	EL(+)+0.450M	2-16R	-	-	3-16R	-	-	-	-	2L-8R @ 200C/C	2L-8R @ 300C/C	1200	-	-
GB4	II	300	600	EL(+)+0.450M	3-25R	-	-	3-20R	-	-	-	-	2L-8R @ 150C/C	2L-8R @ 250C/C	2500	-	-
GB5	I/II	300	600	EL(+)+0.450M	3-25R	2-20R	2-20R	3-25R + 3-16R	-	2-20R	-	-	2L-8R @ 150C/C	2L-8R @ 250C/C	2000	-	2nd. LAYER
GB5A	I	300	600	EL(+)+0.150M	3-25R	2-20R	2-20R	3-25R + 3-16R	-	2-20R	-	-	2L-8R @ 150C/C	2L-8R @ 250C/C	2000	-	2nd. LAYER

**SPECIAL NOTES:-**  
 1. LEVELS, DIMENSIONS AND ARRANGEMENT SHOWN IN THIS DRAWING TO BE CHECKED AND CONFIRMED (VERIFIED) BY MECHANICAL & ELECTRICAL DEPARTMENT, CONSIDERING FUNCTIONAL REQUIREMENTS.  
 2. PROVISION OF INSERT PLATES, CUT-OUT, PIPE SLEEVES ETC. TO BE CONSIDERED BEFORE CASTING AS PER REQUIREMENTS.

ALL CUT OUTS SHOWN IN THIS DWG. TO BE MATCHED WITH ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS.

ARRANGEMENT OF FALSE FLOORING (AS REQUIRED) SHALL BE AS PER ARCHITECTURAL DRAWINGS.

HORIZONTAL AND VERTICAL STRIPS/BANDS OF RCC SHALL BE PROVIDED WITHIN AAC BLOCKWALL AS REQUIRED [AS PER LATEST VERSION OF IS : 2185 (PART3)] DURING CONSTRUCTION BY ENGINEER IN CHARGE.

- REF DWGS:**
- 18A08-DWG-E-0401 - ELECTRICAL DWG.
  - 18A08-DWG-A-0002 TO 0006 - ARCHITECTURAL DWG.
  - 18A08-DWG-M-0001 TO 0007 - MECHANICAL DWG. (FIRE DETECTION AND PROTECTION)
  - 18A08-DWG-C-0001 TO 0005, C-0005 & 007 - CIVIL & STRUCTURAL DWG.
  - 18A08-03-DWG-VA-001 - HVAC LAYOUT
  - 18A08-03-DWG-VA-002 - HVAC POWER DISTRIBUTION SCHEME.

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRE AND LEVELS IN METERS UNO.
  2. ALL CO-ORDINATES, LEVELS AND NORTH DIRECTION SHOULD BE CHECKED BEFORE EXECUTION OF THE WORK
  3. GRADE OF CONC. SHALL BE AS FOLLOWS  
 a. FOR RCC WORK-M30.  
 b. FOR PCC WORK-M10
  4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:  
 TOP SIDE  
 COLUMN 45 45  
 GRADE BEAM 45 45  
 BOTTOM SIDE
  5. GRADE OF REINFORCEMENT STEEL - Fe500 CONFORMING TO IS : 1786.
  6. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCH. & ELEC. DRAWINGS

**ISSUED FOR CONSTRUCTION**

**IFFCO PARADEEP** OWNER: **IFFCO PARADEEP**

PROJECT: **IFFCO PARADEEP AFBC BOILER CONTROL ROOM**

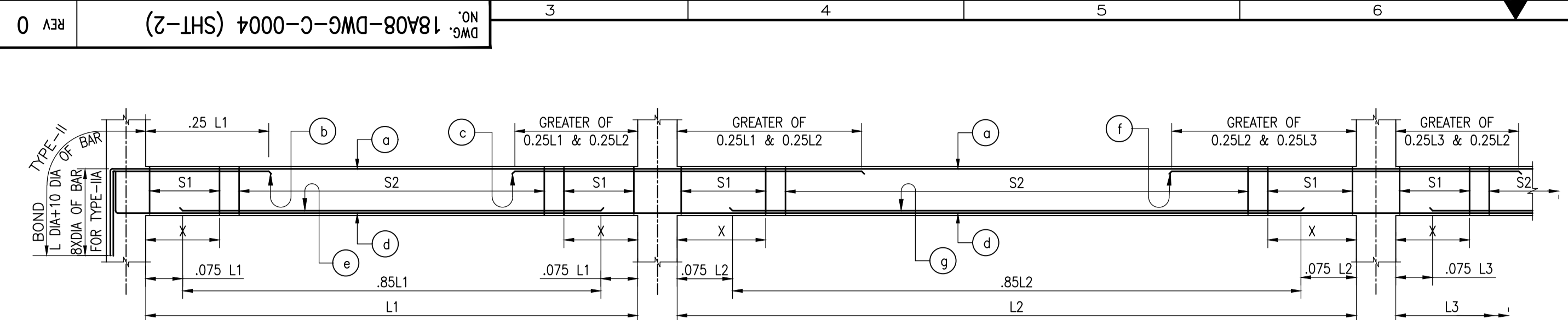
TITLE: **CONTROL BUILDING GA & RC DETAILS OF GRADE BEAM AT EL(+)+0.450 (T.O.C) AND COLUMN SCHEDULE**

**DEVELOPMENT CONSULTANTS PVT LTD. CONSULTING ENGINEERS**  
 KOLKATA • MUMBAI • CHENNAI • NEW DELHI

PREPARED: ASHS  
 CHECKED: NC  
 APPROVED: AR  
 JOB NO. 18A08  
 SCALE AS NOTED  
 DATE 22.02.2019

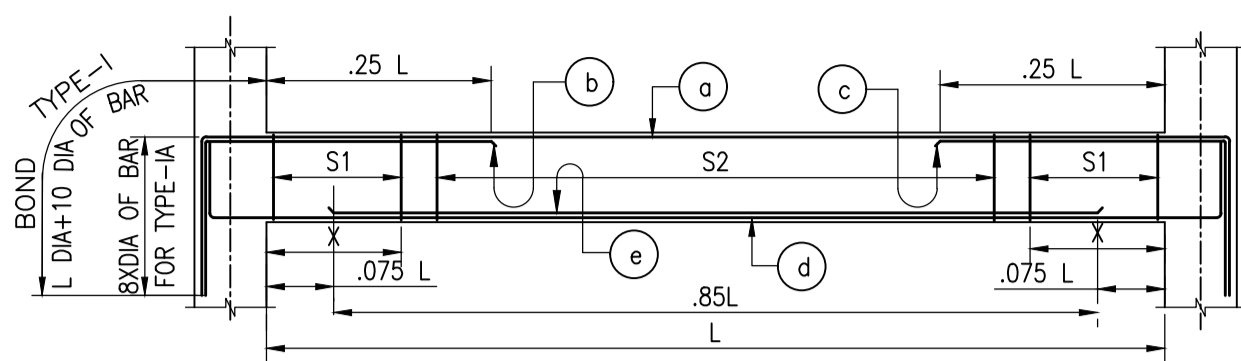
DWG. NO. **18A08-DWG-C-0004** REV 1

APPROV.	MECH.	INST.	ELEC.	STR.	ARCH.	REVIEWED

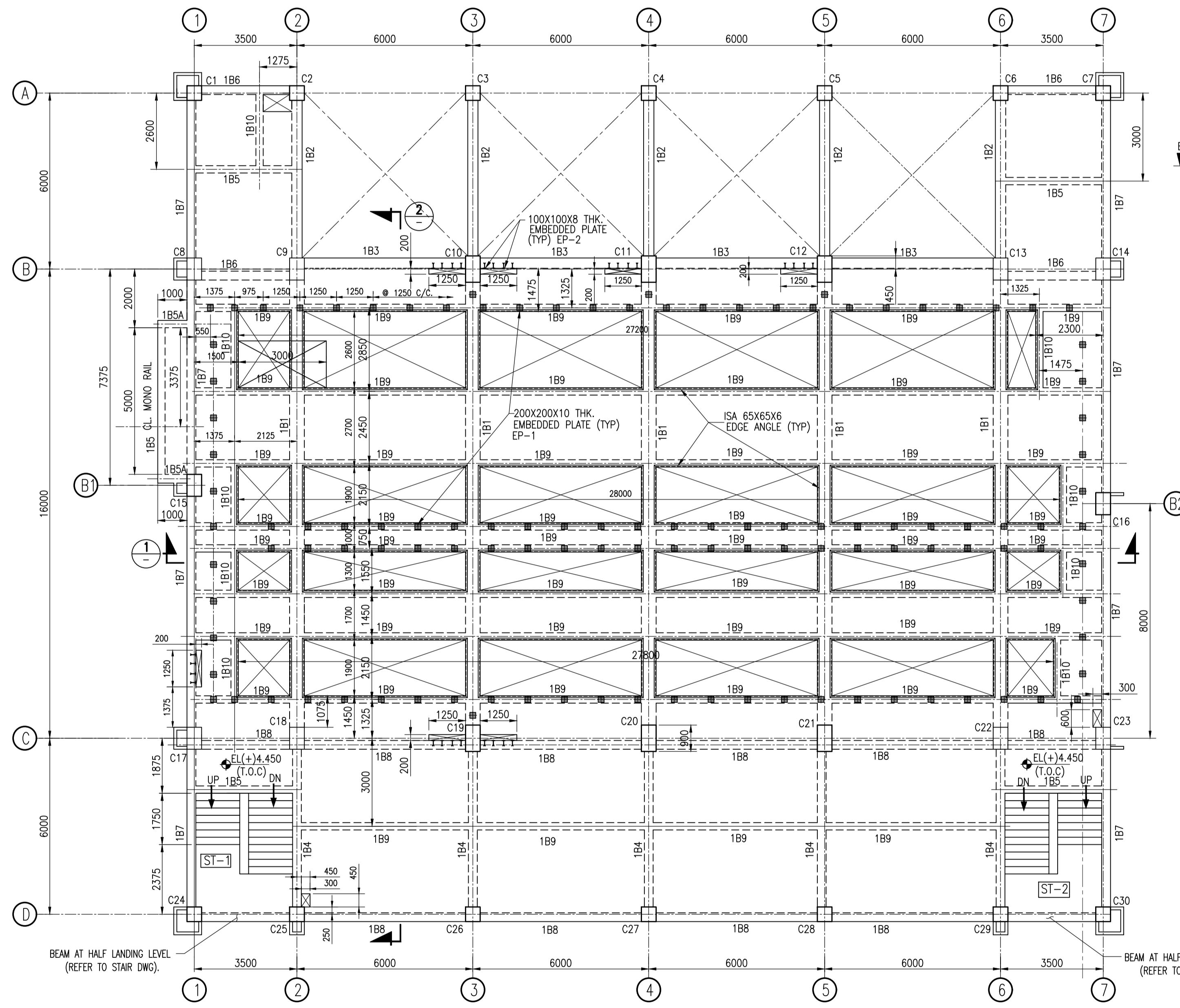
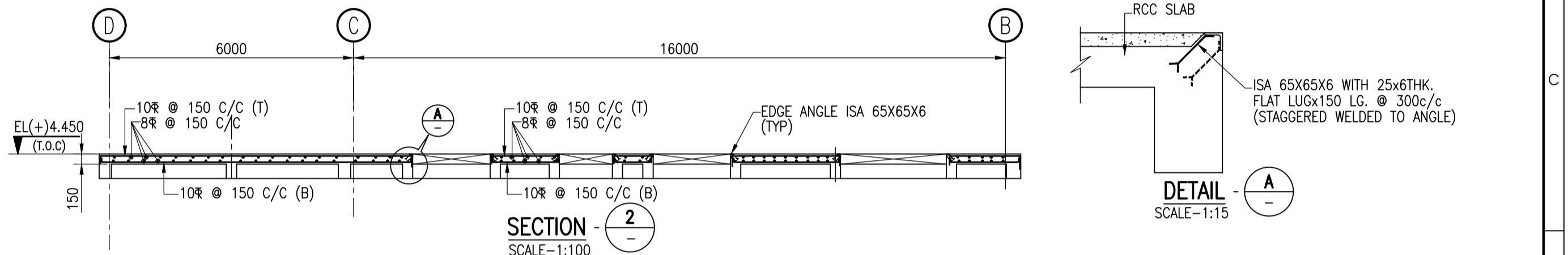
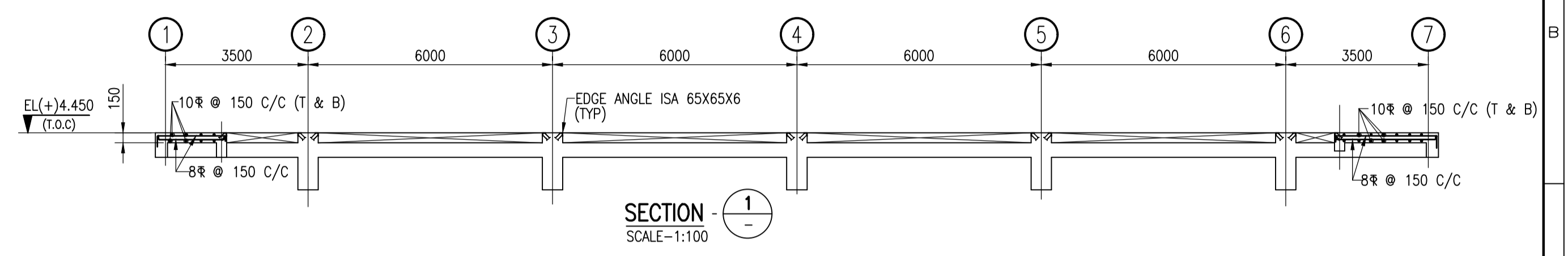
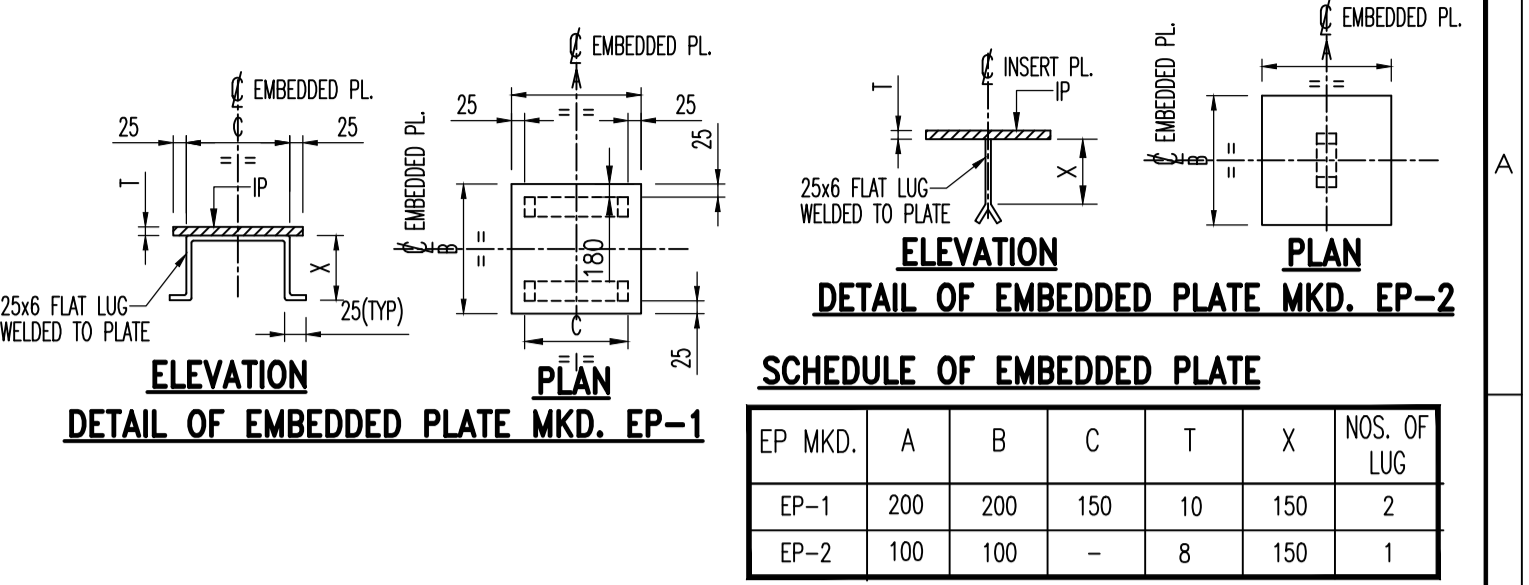


**BEAM TYPE-II & IIA  
(MULTIPLE SPAN)**

**NOTES:-**  
 1. BEAM TYPE- I & II : THE BEAMS ARE FIXED/ CONTINUOUS AT ENDS.  
 2. BEAM TYPE- IA & IIA : THE BEAMS ARE SIMPLY SUPPORTED AT THE ENDS./ CONTINUOUS AT ENDS.



**BEAM TYPE-I & IA  
(SINGLE SPAN BEAM)**



**1ST FLOOR BEAM LAYOUT AT EL.(+)4.450(T.O.C.)  
(SLAB THICKNESS 150 THK.)  
(SCALE-1:100)**

BEAM MKD.	BEAM TYPE	BEAM SIZE WIDTH DEPTH (mm)	ELEVATION (T.O.C)	REINFORCEMENTS					STIRRUPS		SIDE REINF. EACH FACE	REMARKS		
				a	b	c	d	e	f	g			S1	S2
1B1	I	500 1400	EL.(+)4.450M	5-32#	5-32#	5-32#	5-32#	5-25#	-	-	4L-12# @ 125C/C	4L-12# @ 200C/C	4500	4-12# (BOTH FACE) #2nd. LAYER #3rd. LAYER
1B2	I	350 700	EL.(+)4.450M	3-25#	3-25#	3-25#	3-25#	-	-	-	4L-8# @ 200C/C	4L-8# @ 300C/C	1600	- #2nd. LAYER
1B3	II	350 700	EL.(+)4.450M	3-25#	3-20#	3-20#	3-25#	-	-	-	4L-8# @ 200C/C	4L-8# @ 300C/C	1600	- #2nd. LAYER
1B4	I	350 750	EL.(+)4.450M	4-25#	4-25#	4-25#	4-25#	-	-	-	4L-8# @ 150C/C	4L-8# @ 200C/C	1650	2-12# (BOTH FACE) #2nd. LAYER
1B5	IA	250 500	EL.(+)4.450M	2-16#	-	-	3-16#	-	-	-	2L-8# @ 200C/C	2L-8# @ 200C/C	1400	- #2nd. LAYER
1B5A	I	250 500	EL.(+)4.450M	3-16#	-	-	3-16#	-	-	-	2L-8# @ 200C/C	2L-8# @ 200C/C	-	-
1B6	I	300 700	EL.(+)4.450M	3-25#	3-20#	3-20#	3-25#	-	-	-	4L-8# @ 200C/C	4L-8# @ 300C/C	1400	- #2nd. LAYER
1B7	II	300 700	EL.(+)4.450M	3-25#	3-25#	3-25#	3-25#	3-25#	-	-	4L-8# @ 125C/C	4L-8# @ 200C/C	2250	- #2nd. LAYER
1B8	II	300 700	EL.(+)4.450M	3-25#	3-20#	3-20#	3-25#	3-20#	-	-	4L-8# @ 200C/C	4L-8# @ 300C/C	1600	- #2nd. LAYER
1B9	IIA	250 600	EL.(+)4.450M	3-20#	-	3-16#	2-25# + 1-20#	-	-	-	2L-8# @ 125C/C	2L-8# @ 200C/C	1625	- #2nd. LAYER
1B10	IA	250 350	EL.(+)4.450M	2-16#	-	-	3-16#	-	-	-	2L-8# @ 200C/C	2L-8# @ 200C/C	-	-

**SPECIAL NOTES:-**  
 1. LEVELS, DIMENSIONS AND ARRANGEMENT SHOWN IN THIS DRAWING TO BE CHECKED AND CONFIRMED (VERIFIED) BY MECHANICAL & ELECTRICAL DEPARTMENT, CONSIDERING FUNCTIONAL REQUIREMENTS.  
 2. PROVISION OF INSERT PLATES, CUT-OUT, PIPE SLEEVES ETC. TO BE CONSIDERED BEFORE CASTING AS PER REQUIREMENTS.

ALL CUT OUTS SHOWN IN THIS DWG. TO BE MATCHED WITH ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS.

ARRANGEMENT OF FALSE FLOORING (AS REQUIRED) SHALL BE AS PER ARCHITECTURAL DRAWINGS.

HORIZONTAL AND VERTICAL STRIPS/BANDS OF RCC SHALL BE PROVIDED WITHIN AAC BLOCKWALL AS REQUIRED [AS PER LATEST VERSION OF IS : 2185 (PART3)] DURING CONSTRUCTION BY ENGINEER IN CHARGE.

- REF DWGS:**
- 18A08-DWG-E-0401 - ELECTRICAL DWG.
  - 18A08-DWG-A-0002 TO 0006 - ARCHITECTURAL DWG.
  - 18A08-DWG-M-0001 TO 0007 - MECHANICAL DWG. (FIRE DETECTION AND PROTECTION)
  - 18A08-DWG-C-0001 TO 0003, C-0005 TO 0007 - CIVIL & STRUCTURAL DWG.
  - 18A08-03-DWG-VA-001 - HVAC LAYOUT
  - 18A08-03-DWG-VA-002 - HVAC POWER DISTRIBUTION SCHEME.

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRE AND LEVELS IN METERS UNO.
  2. ALL CO-ORDINATES, LEVELS AND NORTH DIRECTION SHOULD BE CHECKED BEFORE EXECUTION OF THE WORK
  3. GRADE OF CONC. SHALL BE AS FOLLOWS  
 a. FOR RCC WORK-M30.  
 b. FOR PCC WORK-M10
  4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:  
 TOP BOTTOM SIDE  
 SLAB 25 25 45  
 BEAM 45 45 45
  5. GRADE OF REINFORCEMENT STEEL - Fe500 CONFORMING TO IS : 1786.
  6. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCH. & ELEC. DRAWINGS

**ISSUED FOR CONSTRUCTION**

**IFFCO PARADEEP** OWNER: **IFFCO PARADEEP**

PROJECT: **IFFCO PARADEEP AFBC BOILER CONTROL ROOM**

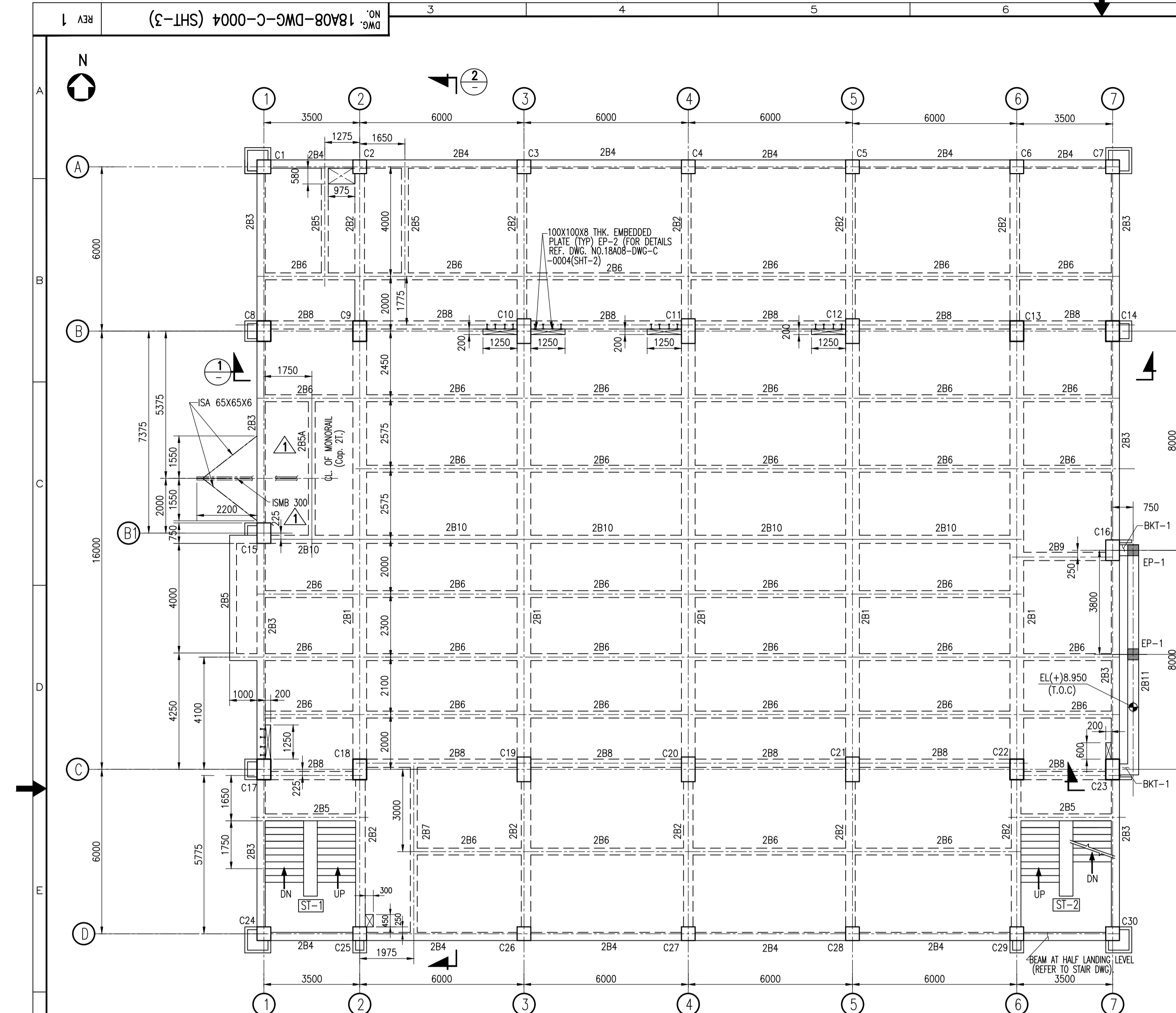
TITLE: **CONTROL BUILDING GA & RC DETAILS OF BEAM & SLAB AT FIRST FLOOR LEVEL AT EL.(+)4.450 (T.O.C.)**

**DEVELOPMENT CONSULTANTS PVT LTD.**  
**CONSULTING ENGINEERS**  
 KOLKATA - MUMBAI - CHENNAI - NEW DELHI

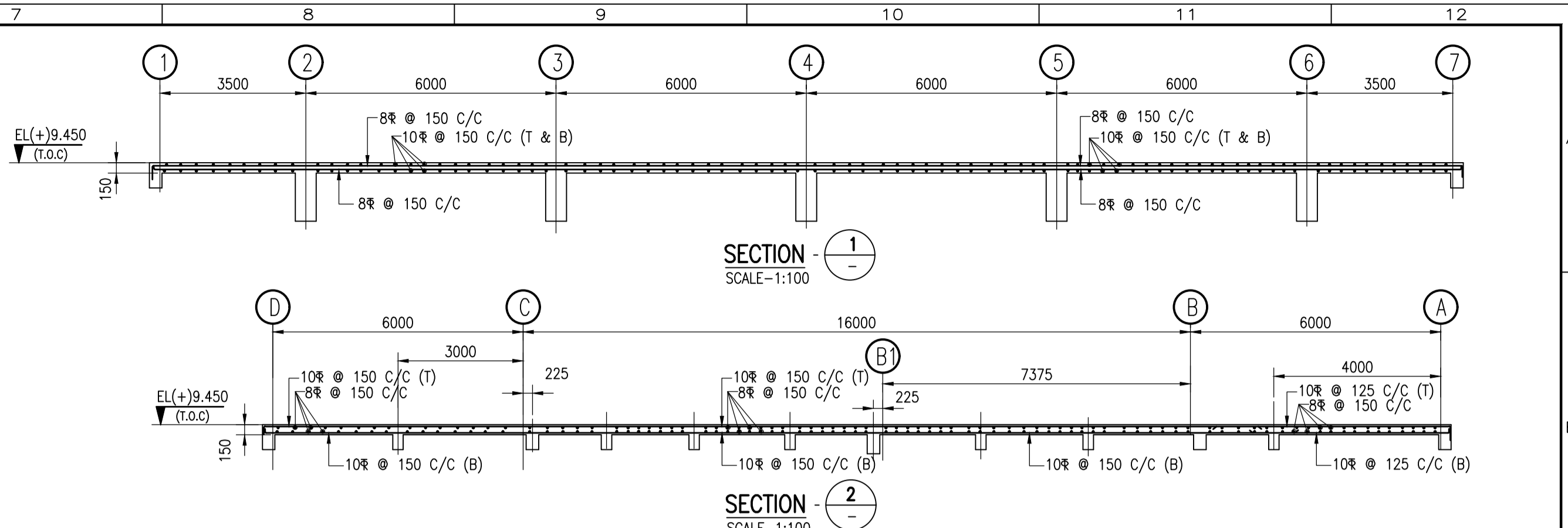
PREPARED: IASHIS JOB NO. 18A08  
 CHECKED: NC SCALE 1:100  
 APPROVED: AR DATE 22.02.2019

DWG. NO. **18A08-DWG-C-0004** REV 0  
 2 SHEET OF

APPROV.	MECH.	INST.	ELEC.	STR.	ARCH.	NATURE OF REVISION & DESCRIPTION	CHECKED	DRAWN	REV.	DATE	RELEASE STATUS	DATE	SIGNATURE
											PRELIMINARY		
											FOR TENDER ONLY		
											FOR CONSTRUCTION	03.10.19	AR
											ARCHITECTURAL		
											CIVIL & STRUCTURAL		
											ELECTRICAL		
											INSTRUMENTATION		
											MECHANICAL		



**2ND FLOOR BEAM LAYOUT AT EL.(+)9.450(T.O.C.)**  
(SLAB THICKNESS 150 THK.)  
(SCALE=1:100)



BEAM MKD.	BEAM TYPE	BEAM SIZE WIDTH (mm) DEPTH (mm)	ELEVATION (T.O.C)	REINFORCEMENTS							STIRRUPS		SIDE REINF. EACH FACE	REMARKS		
				a	b	c	d	e	f	g	S1	S2			X(mm.)	
2B1	I	500 1400	EL(+9.450M)	5-32 $\phi$	5-25 $\phi$	5-25 $\phi$	5-32 $\phi$	5-25 $\phi$	-	-	-	4L-10 $\phi$ @ 125C/C	4L-10 $\phi$ @ 200C/C	4500	4-12 $\phi$ (BOTH FACE) 3rd. LAYER	2nd. LAYER
2B2	I	350 750	EL(+9.450M)	4-25 $\phi$	4-25 $\phi$	4-25 $\phi$	4-25 $\phi$	-	-	-	4L-8 $\phi$ @ 125C/C	4L-8 $\phi$ @ 200C/C	1800	2-12 $\phi$ (BOTH FACE)	2nd. LAYER	
2B3	II	300 700	EL(+9.450M)	3-25 $\phi$	3-16 $\phi$	3-16 $\phi$	1-20 $\phi$	-	-	-	4L-8 $\phi$ @ 200C/C	4L-8 $\phi$ @ 250C/C	1800	-	2nd. LAYER	
2B4	II	300 600	EL(+9.450M)	3-25 $\phi$	2-16 $\phi$	2-16 $\phi$	3-25 $\phi$	-	-	-	4L-8 $\phi$ @ 200C/C	4L-8 $\phi$ @ 300C/C	1800	-	2nd. LAYER	
2B5	IA	250 500	EL(+9.450M)	2-16 $\phi$	-	-	3-20 $\phi$	-	-	-	2L-8 $\phi$ @ 175C/C	2L-8 $\phi$ @ 300C/C	1225	-	-	
2B5A	IA	250 500	EL(+9.450M)	2-16 $\phi$	-	-	3-25 $\phi$	-	-	-	2L-8 $\phi$ @ 150C/C	2L-8 $\phi$ @ 250C/C	1225	-	-	
2B6	IIA	250 600	EL(+9.450M)	3-20 $\phi$	3-20 $\phi$	3-20 $\phi$	2-20 $\phi$	-	-	-	2L-8 $\phi$ @ 100C/C	2L-8 $\phi$ @ 150C/C	1700	-	2nd. LAYER	
2B7	IA	250 600	EL(+9.450M)	2-16 $\phi$	-	-	3-25 $\phi$	2-20 $\phi$	-	-	2L-8 $\phi$ @ 100C/C	2L-8 $\phi$ @ 200C/C	2000	-	2nd. LAYER	
2B8	II	300 700	EL(+9.450M)	3-25 $\phi$	3-20 $\phi$	3-20 $\phi$	3-25 $\phi$	2-16 $\phi$	-	-	4L-8 $\phi$ @ 150C/C	4L-8 $\phi$ @ 250C/C	1800	-	2nd. LAYER	
2B9	I/IA	300 750	EL(+9.450M)	3-25 $\phi$	-	3-32 $\phi$	3-25 $\phi$	-	-	-	2L-8 $\phi$ @ 125C/C	2L-8 $\phi$ @ 125C/C	-	2-12 $\phi$ (BOTH FACE)	2nd. LAYER SIMPLY SUPPORTED AT END @	
2B10	II/IIA	300 750	EL(+9.450M)	3-25 $\phi$	3-32 $\phi$	3-32 $\phi$	3-25 $\phi$	2-16 $\phi$	-	-	4L-8 $\phi$ @ 150C/C	4L-8 $\phi$ @ 200C/C	1800	2-12 $\phi$ (BOTH FACE)	2nd. LAYER SIMPLY SUPPORTED ON CRD @	
2B11	IA	400 600	EL(+8.950M)	4-16 $\phi$	-	-	4-20 $\phi$	-	-	-	4L-8 $\phi$ @ 200C/C	4L-8 $\phi$ @ 300C/C	2400	-	-	
BKT-1	I/IA	400 600	EL(+8.950M)	4-20 $\phi$	-	-	4-20 $\phi$	-	-	-	4L-8 $\phi$ @ 200C/C	4L-8 $\phi$ @ 200C/C	-	-	-	

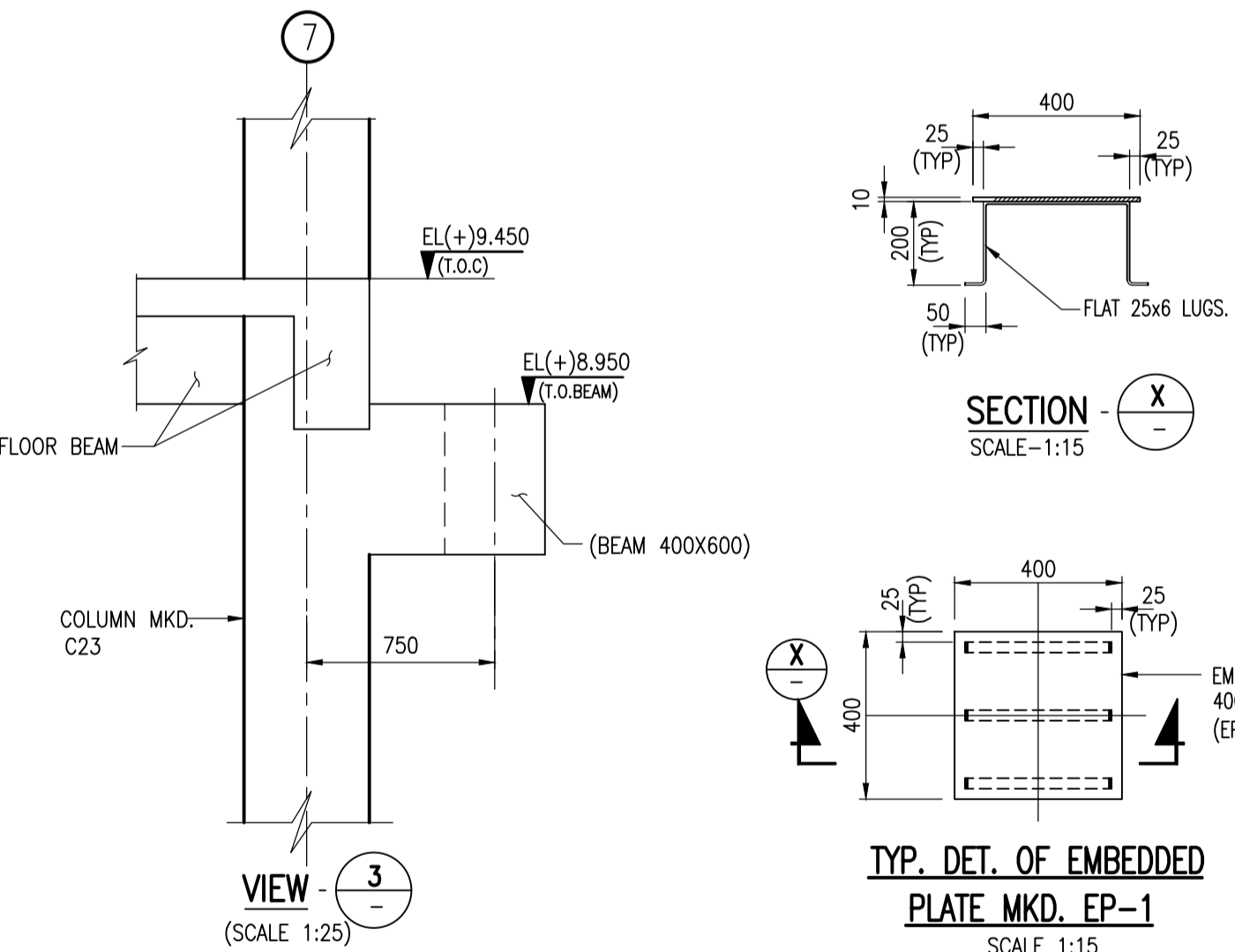
- NOTES:-**
- ALL DIMENSIONS ARE IN MILLIMETRE AND LEVELS IN METERS UNO.
  - ALL CO-ORDINATES, LEVELS AND NORTH DIRECTION SHOULD BE CHECKED BEFORE EXECUTION OF THE WORK.
  - GRADE OF CONC. SHALL BE AS FOLLOWS  
a) FOR RCC WORK-M30.  
b) FOR PCC WORK-M10
  - CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:  

	TOP	BOTTOM	SIDE
SLAB	25	25	45
BEAM	45	45	45
  - GRADE OF REINFORCEMENT STEEL - Fe500 CONFORMING TO IS : 1786.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCH. & ELEC. DRAWINGS

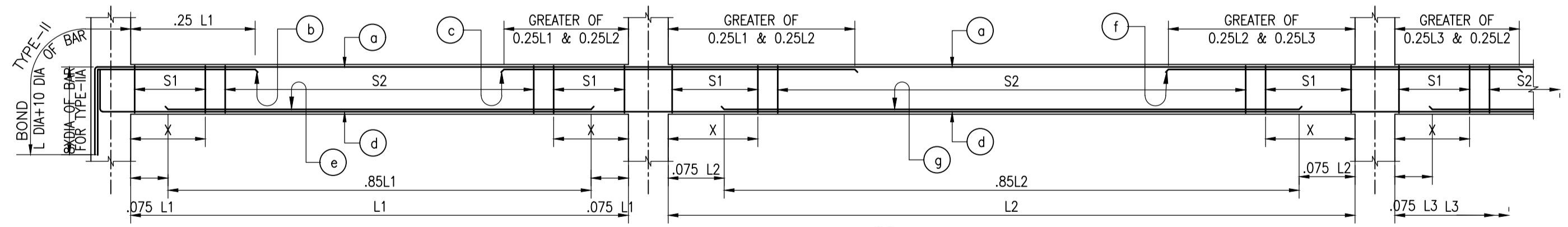
- SPECIAL NOTES:-**
- LEVELS, DIMENSIONS AND ARRANGEMENT SHOWN IN THIS DRAWING TO BE CHECKED AND CONFIRMED (VERIFIED) BY MECHANICAL & ELECTRICAL DEPARTMENT, CONSIDERING FUNCTIONAL REQUIREMENTS.
  - PROVISION OF INSERT PLATES, CUT-OUT, PIPE SLEEVES ETC. TO BE CONSIDERED BEFORE CASTING AS PER REQUIREMENTS.
- ALL CUT OUTS SHOWN IN THIS DWG. TO BE MATCHED WITH ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS.
- ARRANGEMENT OF FALSE FLOORING (AS REQUIRED) SHALL BE AS PER ARCHITECTURAL DRAWINGS.

**ISSUED FOR CONSTRUCTION**

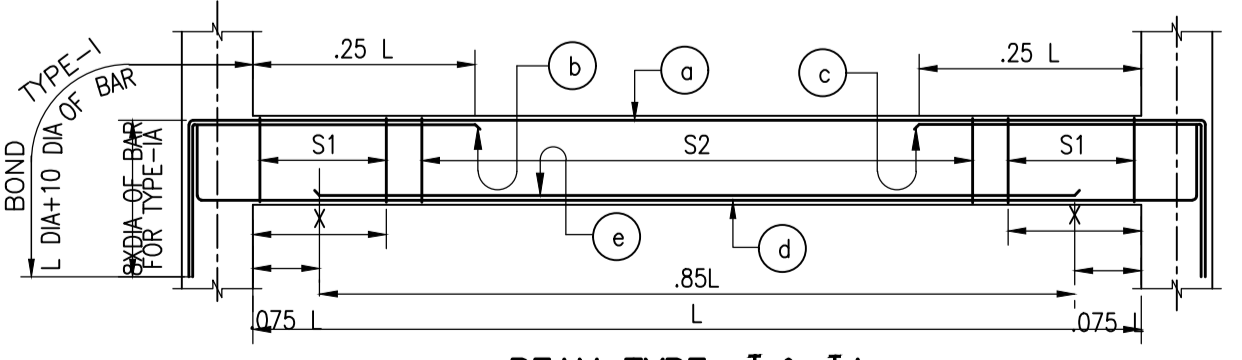
<b>IFFCO</b> PARADEEP	<b>OWNER:</b> IFFCO PARADEEP
<b>PROJECT:</b> IFFCO PARADEEP AFBC BOILER CONTROL ROOM	
<b>TITLE:</b> CONTROL BUILDING GA & RC DETAILS OF BEAM & SLAB AT SECOND FLOOR LEVEL AT EL.(+) 9.450 (T.O.C.)	
<b>DEVELOPMENT CONSULTANTS PVT LTD.</b> CONSULTING ENGINEERS KOLKATA - MUMBAI - CHENNAI - NEW DELHI	
<b>PREPARED</b> ASHS	<b>JOB NO.</b> 18A08
<b>CHECKED</b> NC	<b>SCALE</b> AS NOTED
<b>APPROVED</b> AR	<b>DATE</b> 22.02.2019
<b>DWG. NO.</b> 18A08-DWG-C-0004	
<b>REV 1</b> 3 OF 3	



**TYP. DET. OF EMBEDDED PLATE MKD. EP-1**  
SCALE 1:15



**BEAM TYPE-II & IIA**  
(MULTIPLE SPAN)



**BEAM TYPE-I & IA**  
(SINGLE SPAN BEAM)

- NOTES:-**
- BEAM TYPE- I & II : THE BEAMS ARE FIXED/ CONTINUOUS AT ENDS.
  - BEAM TYPE- IA & IIA : THE BEAMS ARE SIMPLY SUPPORTED AT THE ENDS./ CONTINUOUS AT ENDS.

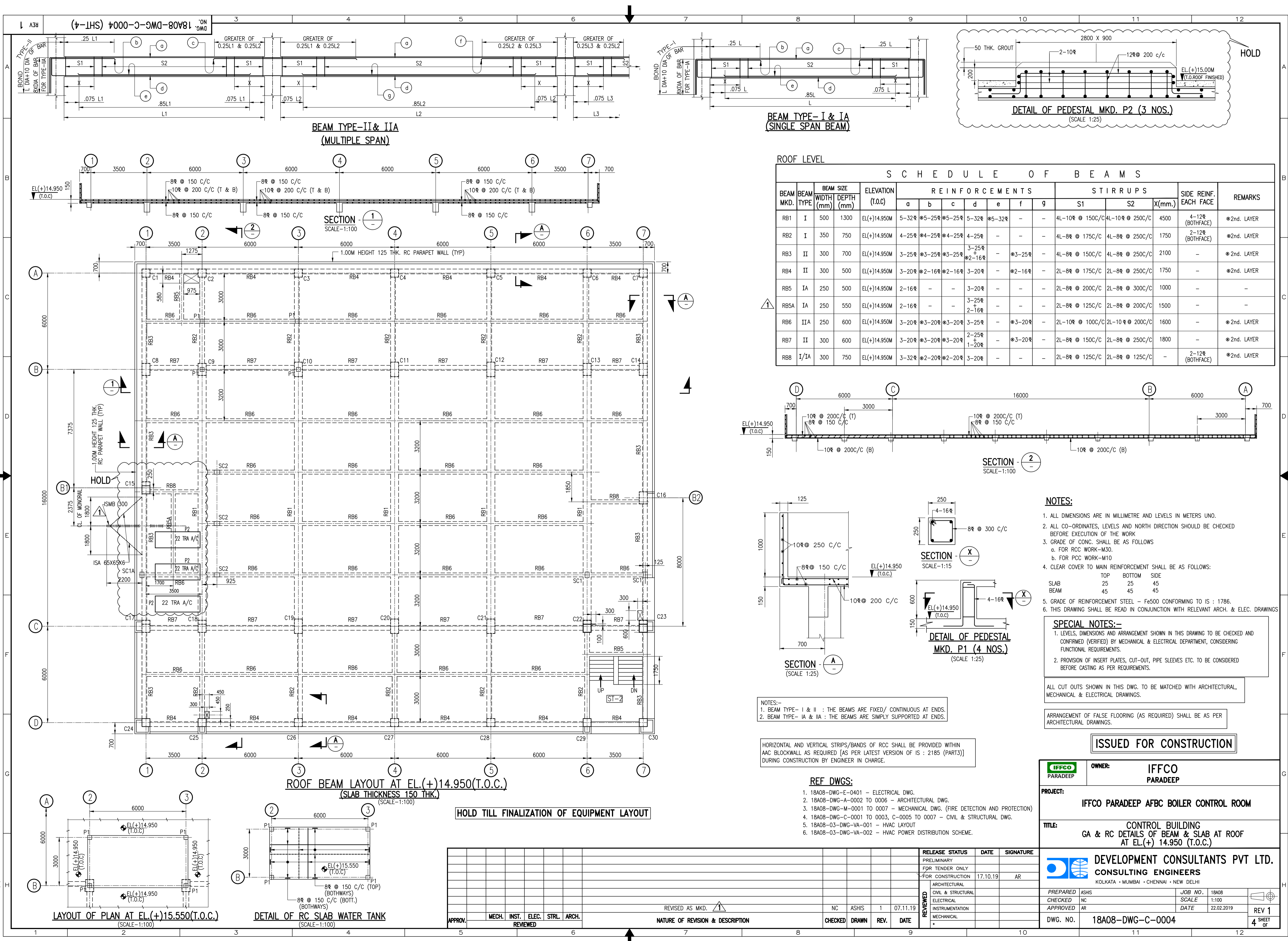
HORIZONTAL AND VERTICAL STRIPS/BANDS OF RCC SHALL BE PROVIDED WITHIN AAC BLOCKWALL AS REQUIRED [AS PER LATEST VERSION OF IS : 2185 (PART3)] DURING CONSTRUCTION BY ENGINEER IN CHARGE.

APPROV.	MECH.	INST.	ELEC.	STR.	ARCH.	NATURE OF REVISION & DESCRIPTION	CHECKED	DRAWN	REV.	DATE
							NC	ASHIS	1	06.11.19

RELEASE STATUS	DATE	SIGNATURE
PRELIMINARY		
FOR TENDER ONLY		
FOR CONSTRUCTION	17.10.19	AR
ARCHITECTURAL		
CIVIL & STRUCTURAL		
ELECTRICAL		
INSTRUMENTATION		
MECHANICAL		

FILE LOCATION: C:\Users\194\Desktop\IFFCO DWG REVISED 05-11-19\18A08-DWG-C-0004(SHT-3)-R1 05-11-19.dwg  
PLOT DATE: 17/02/2019 9:52:24 AM





ROOF LEVEL

SCHEDULE OF BEAMS

BEAM MKD.	BEAM TYPE	WIDTH (mm)	DEPTH (mm)	ELEVATION (T.O.C)	REINFORCEMENTS									STIRRUPS		SIDE REINF. EACH FACE	REMARKS
					a	b	c	d	e	f	g	S1	S2	X(mm.)			
RB1	I	500	1300	EL(+14.950M)	5-32#	5-25#	5-25#	5-32#	5-32#	-	-	-	4L-10# @ 150C/C	4L-10# @ 250C/C	4500	4-12# (BOTHFACE)	*2nd. LAYER
RB2	I	350	750	EL(+14.950M)	4-25#	4-25#	4-25#	4-25#	-	-	-	4L-8# @ 175C/C	4L-8# @ 250C/C	1750	2-12# (BOTHFACE)	*2nd. LAYER	
RB3	II	300	700	EL(+14.950M)	3-25#	3-25#	3-25#	3-25#	-	-	-	4L-8# @ 150C/C	4L-8# @ 250C/C	2100	-	*2nd. LAYER	
RB4	II	300	500	EL(+14.950M)	3-20#	2-16#	2-16#	3-20#	-	-	-	2L-8# @ 175C/C	2L-8# @ 250C/C	1750	-	*2nd. LAYER	
RB5	IA	250	500	EL(+14.950M)	2-16#	-	-	3-20#	-	-	-	2L-8# @ 200C/C	2L-8# @ 300C/C	1000	-	-	
RB5A	IA	250	550	EL(+14.950M)	2-16#	-	-	3-25#	-	-	-	2L-8# @ 125C/C	2L-8# @ 200C/C	1500	-	-	
RB6	IIA	250	600	EL(+14.950M)	3-20#	3-20#	3-20#	3-25#	-	-	-	2L-10# @ 100C/C	2L-10# @ 200C/C	1600	-	*2nd. LAYER	
RB7	II	300	600	EL(+14.950M)	3-20#	3-20#	3-20#	2-25#	-	-	-	2L-8# @ 150C/C	2L-8# @ 250C/C	1800	-	*2nd. LAYER	
RB8	I/IA	300	750	EL(+14.950M)	3-32#	2-20#	2-20#	3-20#	-	-	-	2L-8# @ 125C/C	2L-8# @ 125C/C	-	2-12# (BOTHFACE)	*2nd. LAYER	

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRE AND LEVELS IN METERS UNO.
  - ALL CO-ORDINATES, LEVELS AND NORTH DIRECTION SHOULD BE CHECKED BEFORE EXECUTION OF THE WORK
  - GRADE OF CONC. SHALL BE AS FOLLOWS
    - a. FOR RCC WORK-M30.
    - b. FOR PCC WORK-M10
  - CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
 

	TOP	BOTTOM	SIDE
SLAB	25	25	45
BEAM	45	45	45
  - GRADE OF REINFORCEMENT STEEL - Fe500 CONFORMING TO IS : 1786.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCH. & ELEC. DRAWINGS

- SPECIAL NOTES:-
- LEVELS, DIMENSIONS AND ARRANGEMENT SHOWN IN THIS DRAWING TO BE CHECKED AND CONFIRMED (VERIFIED) BY MECHANICAL & ELECTRICAL DEPARTMENT, CONSIDERING FUNCTIONAL REQUIREMENTS.
  - PROVISION OF INSERT PLATES, CUT-OUT, PIPE SLEEVES ETC. TO BE CONSIDERED BEFORE CASTING AS PER REQUIREMENTS.

ALL CUT OUTS SHOWN IN THIS DWG. TO BE MATCHED WITH ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS.

ARRANGEMENT OF FALSE FLOORING (AS REQUIRED) SHALL BE AS PER ARCHITECTURAL DRAWINGS.

**ISSUED FOR CONSTRUCTION**

**IFFCO PARADEEP** OWNER: **IFFCO PARADEEP**

PROJECT: **IFFCO PARADEEP AFBC BOILER CONTROL ROOM**

TITLE: **CONTROL BUILDING GA & RC DETAILS OF BEAM & SLAB AT ROOF AT EL.(+) 14.950 (T.O.C.)**

**DEVELOPMENT CONSULTANTS PVT LTD. CONSULTING ENGINEERS**  
KOLKATA · MUMBAI · CHENNAI · NEW DELHI

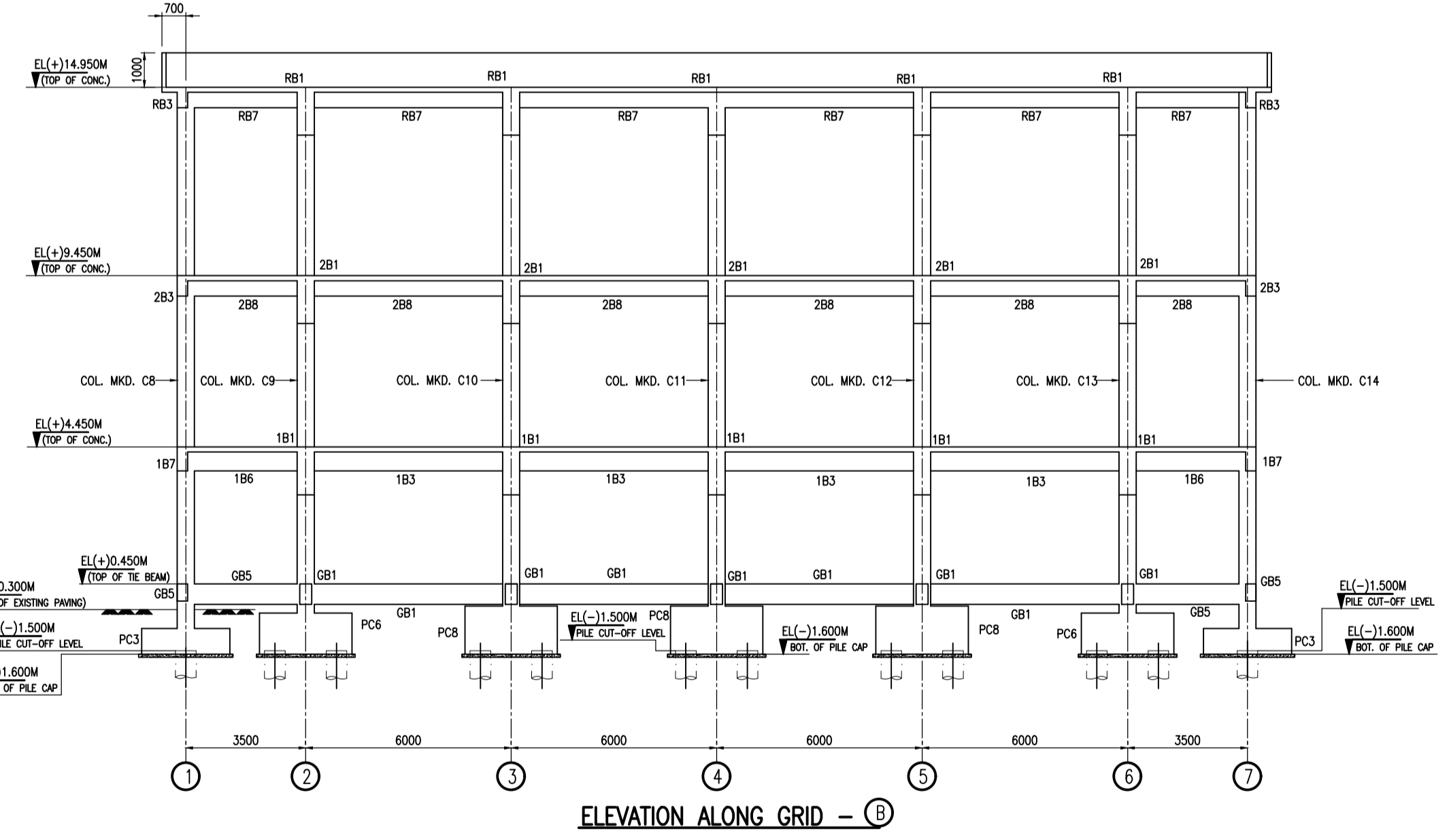
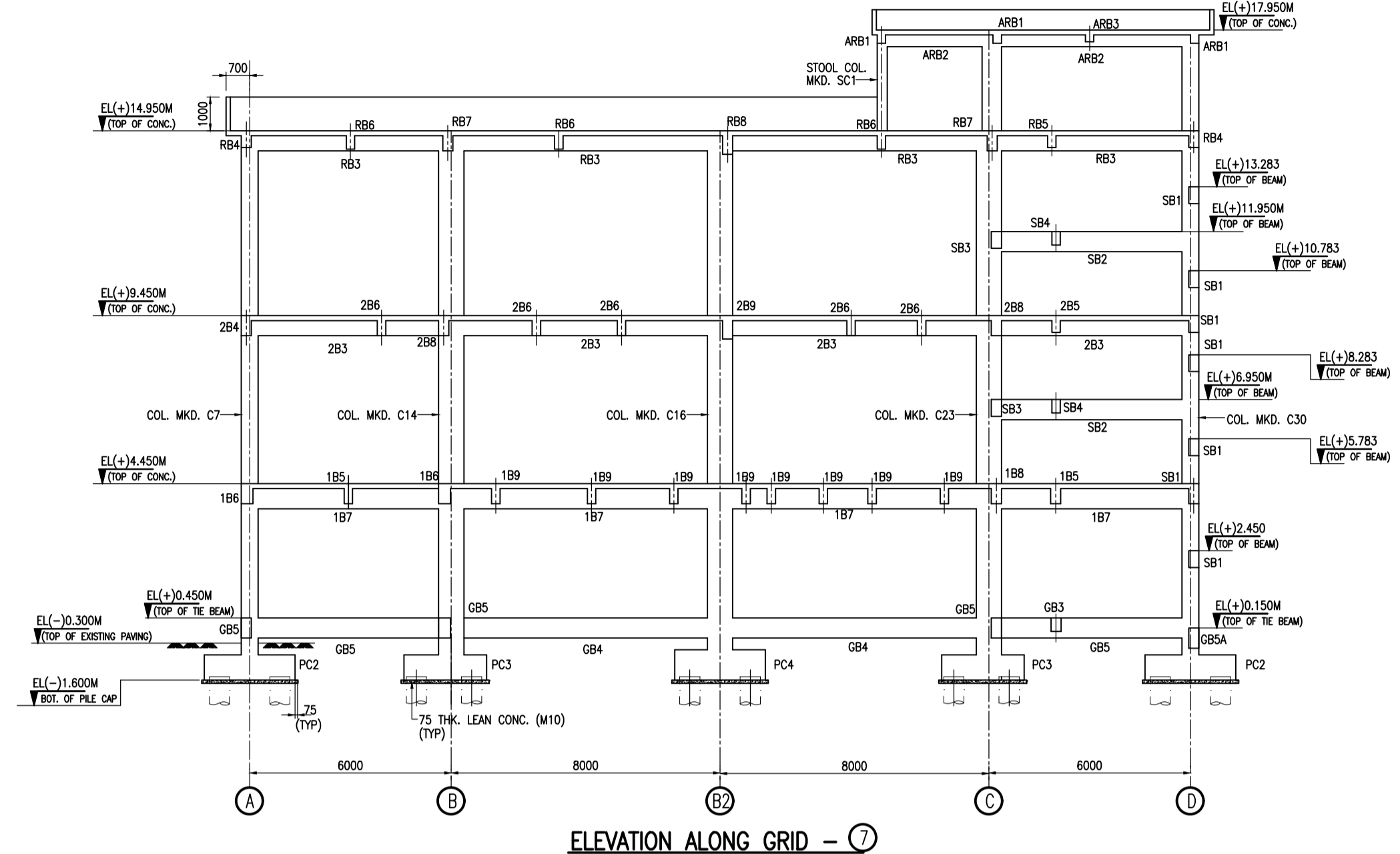
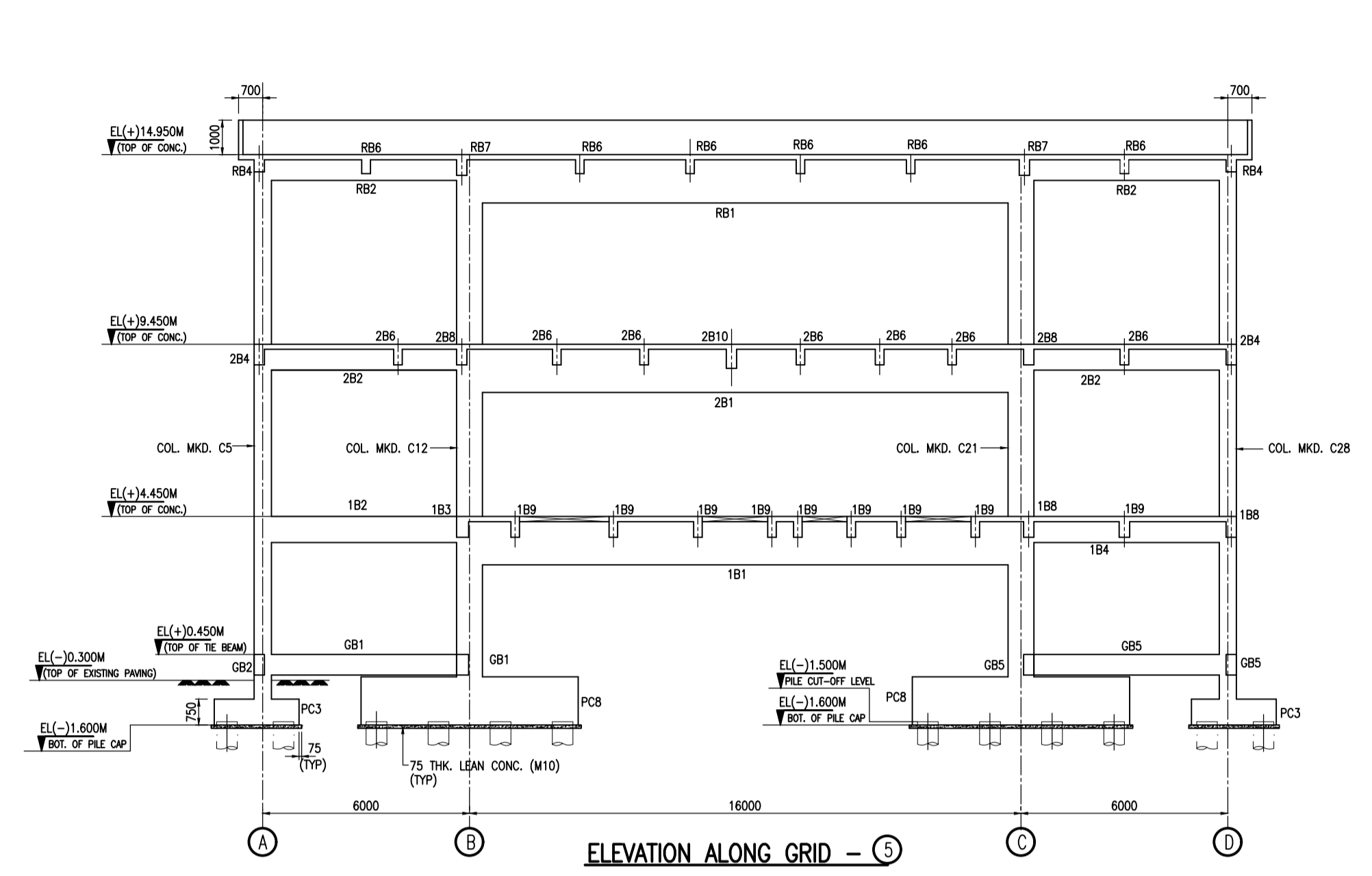
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CHECKED	NC	SCALE	1:100
APPROVED	AR	DATE	22.02.2019
DWG. NO.	18A08-DWG-C-0004	REV	1
		SHEET	4
		OF	

RELEASE STATUS	DATE	SIGNATURE
PRELIMINARY		
FOR TENDER ONLY		
FOR CONSTRUCTION	17.10.19	AR
ARCHITECTURAL		
CIVIL & STRUCTURAL		
ELECTRICAL		
INSTRUMENTATION		
MECHANICAL		

APPROV.	MECH.	INST.	ELEC.	STR.	ARCH.	NATURE OF REVISION & DESCRIPTION	CHECKED	DRAWN	REV.	DATE
						REVISED AS MKD.	NC	ASHIS	1	07.11.19

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PLOT DATE: 11/7/2019 10:57:59 AM  
A1 [841 x 594]



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRE AND LEVELS IN METERS UNDO.
  2. ALL CO-ORDINATES, LEVELS AND NORTH DIRECTION SHOULD BE CHECKED BEFORE EXECUTION OF THE WORK.
  3. GRADE OF CONC. SHALL BE AS FOLLOWS
    - a. FOR RCC WORK-430.
    - b. FOR PCC WORK-M10.
  4. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCH. & ELEC. DRAWINGS.
  5. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO. C-0004 (SHT - 1 TO 4).

- SPECIAL NOTES:-**
1. LEVELS, DIMENSIONS AND ARRANGEMENT SHOWN IN THIS DRAWING TO BE CHECKED AND CONFIRMED (VERIFIED) BY MECHANICAL & ELECTRICAL DEPARTMENT, CONSIDERING FUNCTIONAL REQUIREMENTS.
  2. PROVISION OF INSER PLATES, CUT-OUT, PIPE SLEEVES ETC. TO BE CONSIDERED BEFORE CASTING AS PER REQUIREMENTS.

ALL CUT OUTS SHOWN IN THIS DWG. TO BE MATCHED WITH ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS.

ARRANGEMENT OF FALSE FLOORING (AS REQUIRED) SHALL BE AS PER ARCHITECTURAL DRAWINGS.

HORIZONTAL AND VERTICAL STRIPS/BANDS OF RCC SHALL BE PROVIDED WITHIN AAC BLOCKWALL AS REQUIRED [AS PER LATEST VERSION OF IS : 2185 (PART3)] DURING CONSTRUCTION BY ENGINEER IN CHARGE.

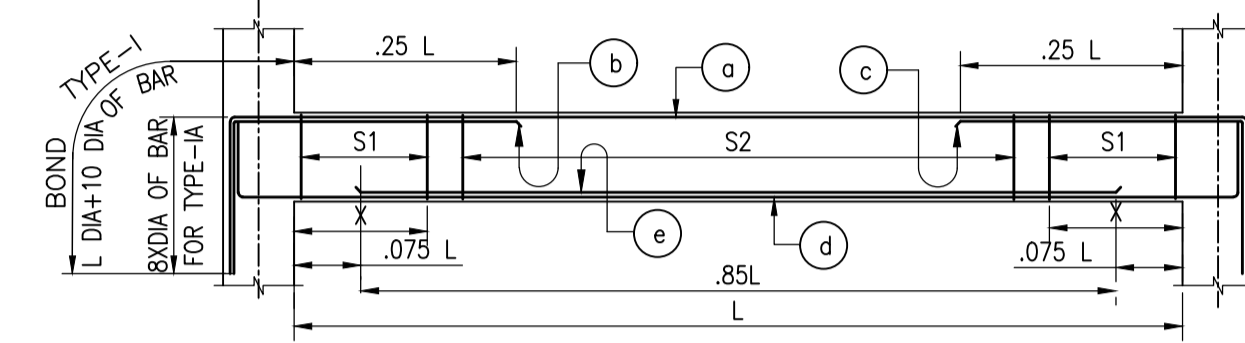
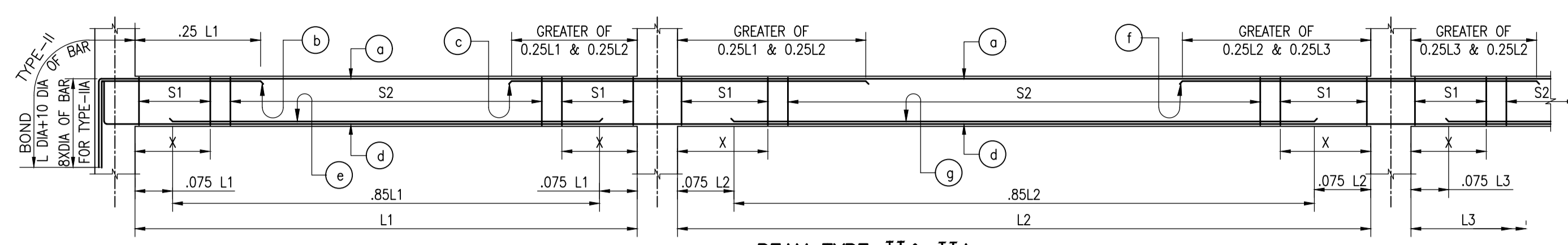
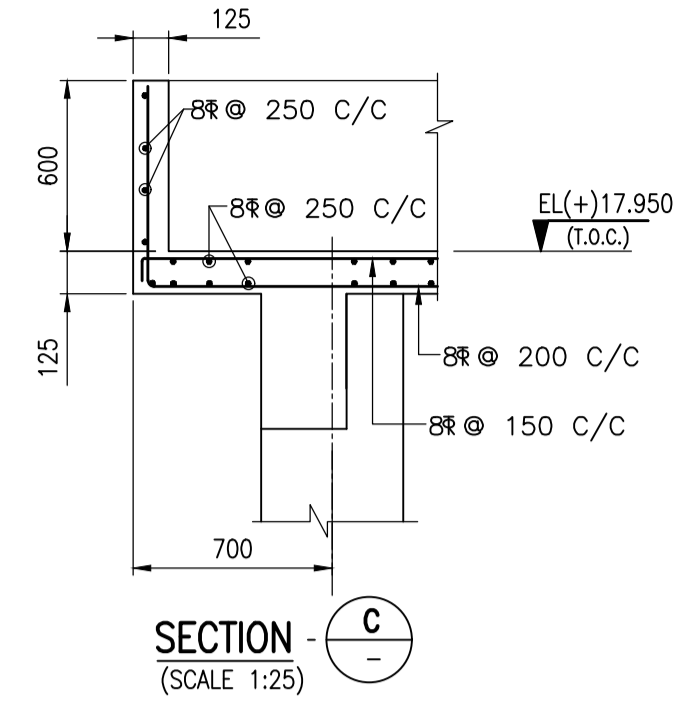
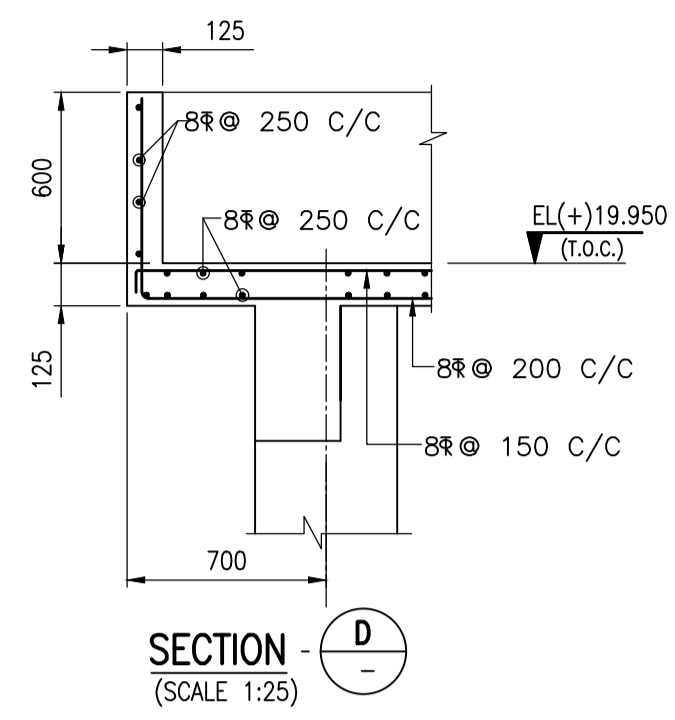
- REF DWGS:**
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  2. 18A08-DWG-A-0002 TO 0006 - ARCHITECTURAL DWG.
  3. 18A08-DWG-M-0001 TO 0007 - MECHANICAL DWG. (FIRE DETECTION AND PROTECTION)
  4. 18A08-DWG-C-0001 TO 0003, C-0005 TO 0007 - CIVIL & STRUCTURAL DWG.
  5. 18A08-03-DWG-VA-001 - HVAC LAYOUT
  6. 18A08-03-DWG-VA-002 - HVAC POWER DISTRIBUTION SCHEME.

ALL CUT OUTS SHOWN IN THIS DWG. SHALL BE MATCHED WITH ELECTRICAL EQUIPMENT LAYOUT.

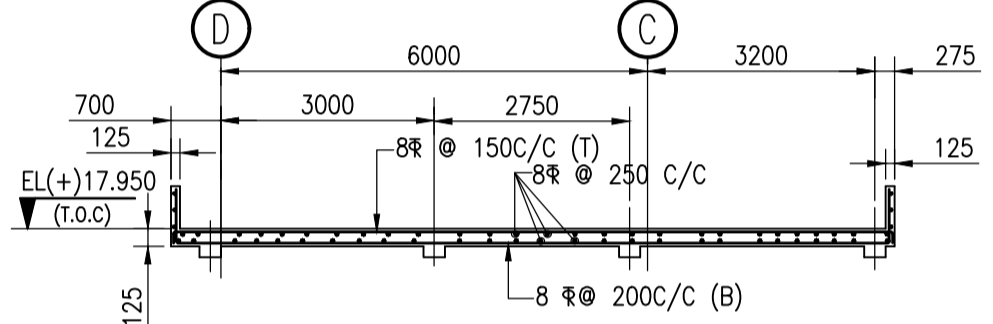
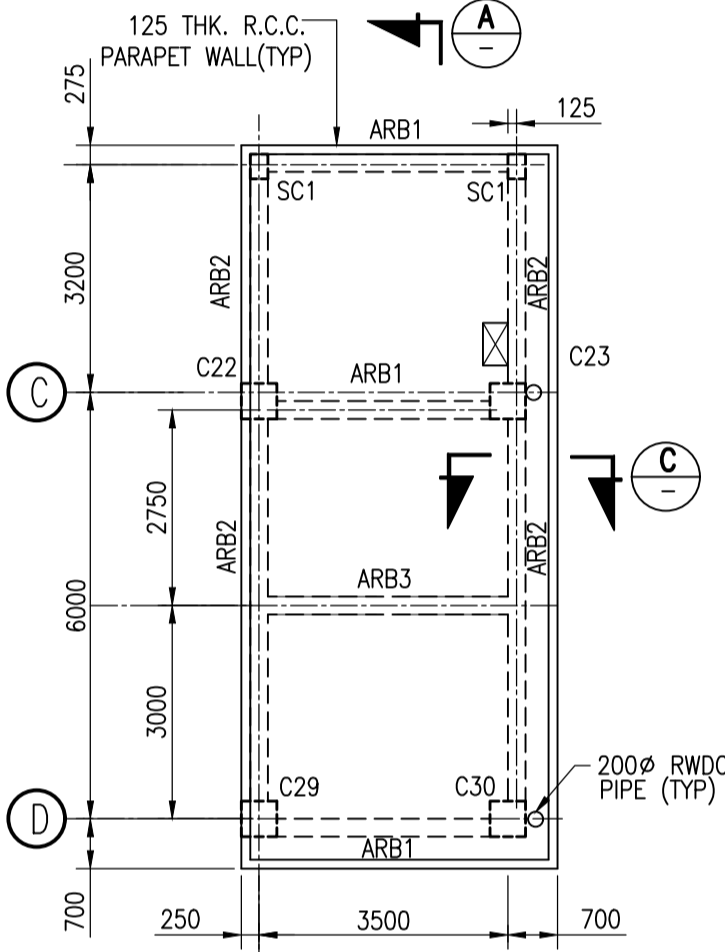
**ISSUED FOR CONSTRUCTION**

<b>OWNER:</b>	<b>IFFCO</b> PARADEEP
<b>PROJECT:</b>	<b>IFFCO PARADEEP AFBC BOILER CONTROL ROOM</b>
<b>TITLE:</b>	<b>CONTROL BUILDING GENERAL ARRANGEMENTS ELEVATIONS</b>
<b>CONSULTANT:</b>	<b>DEVELOPMENT CONSULTANTS PVT. LTD. CONSULTING ENGINEERS</b> KOLKATA • MUMBAI • CHENNAI • NEW DELHI
<b>PREPARED:</b>	ASHS
<b>CHECKED:</b>	INC
<b>APPROVED:</b>	AR
<b>DWG. NO.:</b>	18A08-DWG-C-0004
<b>JOB NO.:</b>	18A08
<b>SCALE:</b>	1:100
<b>DATE:</b>	13.03.2019
<b>REV 0</b>	
<b>5 SHEET</b>	<b>OF</b>

REV. NO.	DATE	NATURE OF REVISION & DESCRIPTION	CHECKED	DRAWN	REV.	DATE

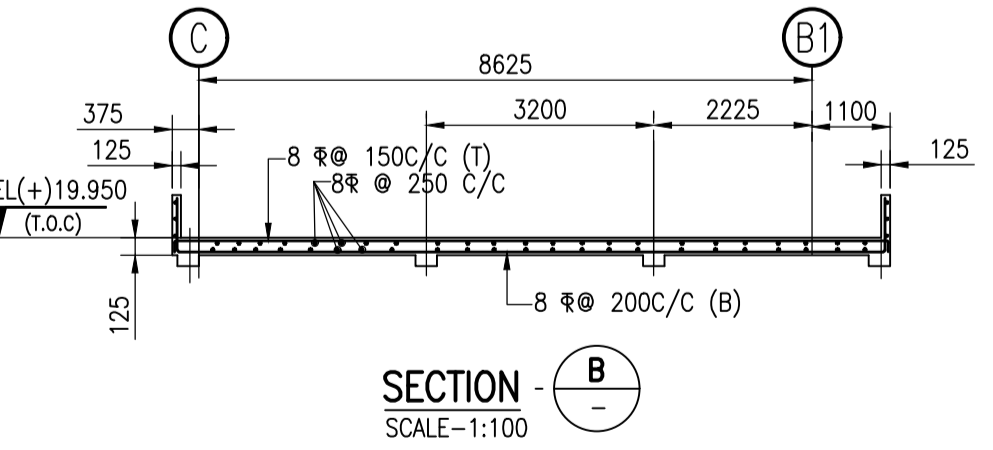
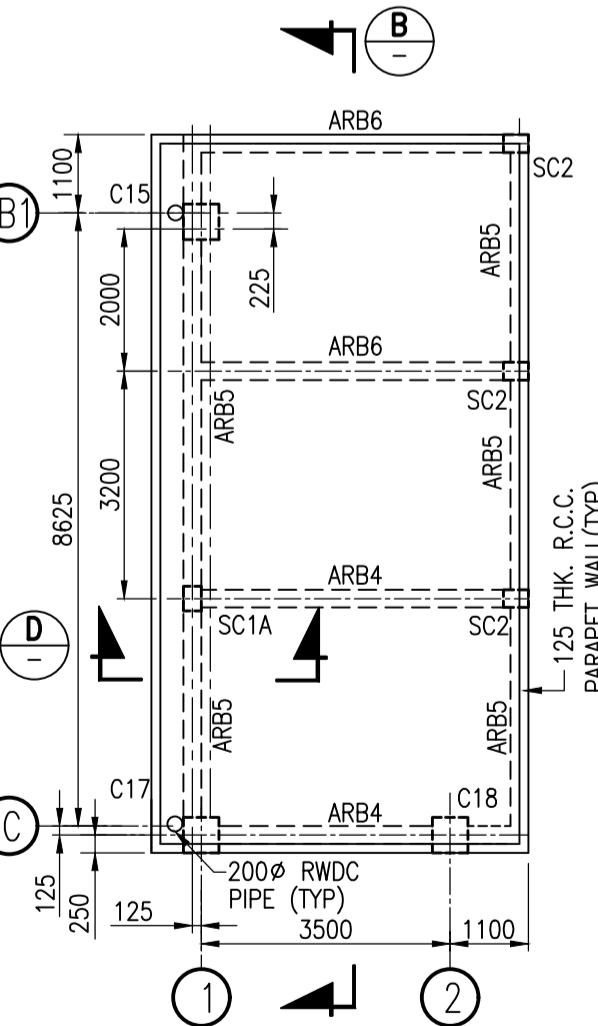


NOTES:-  
 1. BEAM TYPE- I & II : THE BEAMS ARE FIXED/ CONTINUOUS AT ENDS.  
 2. BEAM TYPE- IA & IIA : THE BEAMS ARE SIMPLY SUPPORTED AT ENDS.



ABOVE ROOF LEVEL

BEAM MKD.	BEAM TYPE	BEAM SIZE WIDTH (mm) DEPTH (mm)	ELEVATION (T.O.C)	REINFORCEMENTS							STIRRUPS			SIDE REINF. EACH FACE	REMARKS
				a	b	c	d	e	f	g	S1	S2	X(mm.)		
ARB1	I	250 400	EL(+17.950M)	3-16#	-	-	3-16#	-	-	-	2L-8# @ 200C/C	2L-8# @ 300C/C	1000	-	-
ARB2	II	250 500	EL(+17.950M)	3-16#	*2-20#	*2-20#	3-16#	-	*2-20#	-	2L-8# @ 150C/C	2L-8# @ 250C/C	1800	-	*2nd. LAYER
ARB3	IA	250 350	EL(+17.950M)	2-16#	-	-	3-16#	-	-	-	2L-8# @ 200C/C	2L-8# @ 300C/C	1000	-	-
ARB4	I	250 400	EL(+19.950M)	3-20#	-	-	3-20#	-	-	-	2L-8# @ 200C/C	2L-8# @ 300C/C	1400	-	-
ARB5	II/IA	250 600	EL(+19.950M)	3-20#	*3-20#	*3-20#	3-20#	-	*3-20#	-	2L-8# @ 125C/C	2L-8# @ 200C/C	1500	-	*2nd. LAYER
ARB6	I/IA	250 400	EL(+19.950M)	2-16# 1-20#	-	-	2-16# 1-20#	-	-	-	2L-8# @ 200C/C	2L-8# @ 300C/C	1400	-	-



- NOTES:-
- ALL DIMENSIONS ARE IN MILLIMETRE AND LEVELS IN METERS UNO.
  - ALL CO-ORDINATES, LEVELS AND NORTH DIRECTION SHOULD BE CHECKED BEFORE EXECUTION OF THE WORK
  - GRADE OF CONC. SHALL BE AS FOLLOWS  
 a. FOR RCC WORK-M30.  
 b. FOR PCC WORK-M10
  - CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:  

	TOP	BOTTOM	SIDE
SLAB	25	25	45
BEAM	45	45	45
  - GRADE OF REINFORCEMENT STEEL - Fe500 CONFORMING TO IS : 1786.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCH. & ELEC. DRAWINGS

**SPECIAL NOTES:-**

- LEVELS, DIMENSIONS AND ARRANGEMENT SHOWN IN THIS DRAWING TO BE CHECKED AND CONFIRMED (VERIFIED) BY MECHANICAL & ELECTRICAL DEPARTMENT, CONSIDERING FUNCTIONAL REQUIREMENTS.
- PROVISION OF INSERT PLATES, CUT-OUT, PIPE SLEEVES ETC. TO BE CONSIDERED BEFORE CASTING AS PER REQUIREMENTS.

ALL CUT OUTS SHOWN IN THIS DWG. TO BE MATCHED WITH ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS.

ARRANGEMENT OF FALSE FLOORING (AS REQUIRED) SHALL BE AS PER ARCHITECTURAL DRAWINGS.

HORIZONTAL AND VERTICAL STRIPS/BANDS OF RCC SHALL BE PROVIDED WITHIN AAC BLOCKWALL AS REQUIRED [AS PER LATEST VERSION OF IS : 2185 (PART3)] DURING CONSTRUCTION BY ENGINEER IN CHARGE.

- REF DWGS:**
- 18A08-DWG-E-0401 - ELECTRICAL DWG.
  - 18A08-DWG-A-0002 TO 0006 - ARCHITECTURAL DWG.
  - 18A08-DWG-M-0001 TO 0007 - MECHANICAL DWG. (FIRE DETECTION AND PROTECTION)
  - 18A08-DWG-C-0001 TO 0003, C-0005 TO 0007 - CIVIL & STRUCTURAL DWG.
  - 18A08-03-DWG-VA-001 - HVAC LAYOUT
  - 18A08-03-DWG-VA-002 - HVAC POWER DISTRIBUTION SCHEME.

ISSUED FOR CONSTRUCTION

OWNER: IFFCO  
 PARADEEP

PROJECT: IFFCO PARADEEP AFBC BOILER CONTROL ROOM

TITLE: CONTROL BUILDING  
 GA & RC DETAILS OF BEAM & SLAB AT EL.(+) 17.950 (T.O.C.) & EL.(+) 19.950 (T.O.C.)

DEVELOPMENT CONSULTANTS PVT LTD.  
 CONSULTING ENGINEERS  
 KOLKATA • MUMBAI • CHENNAI • NEW DELHI

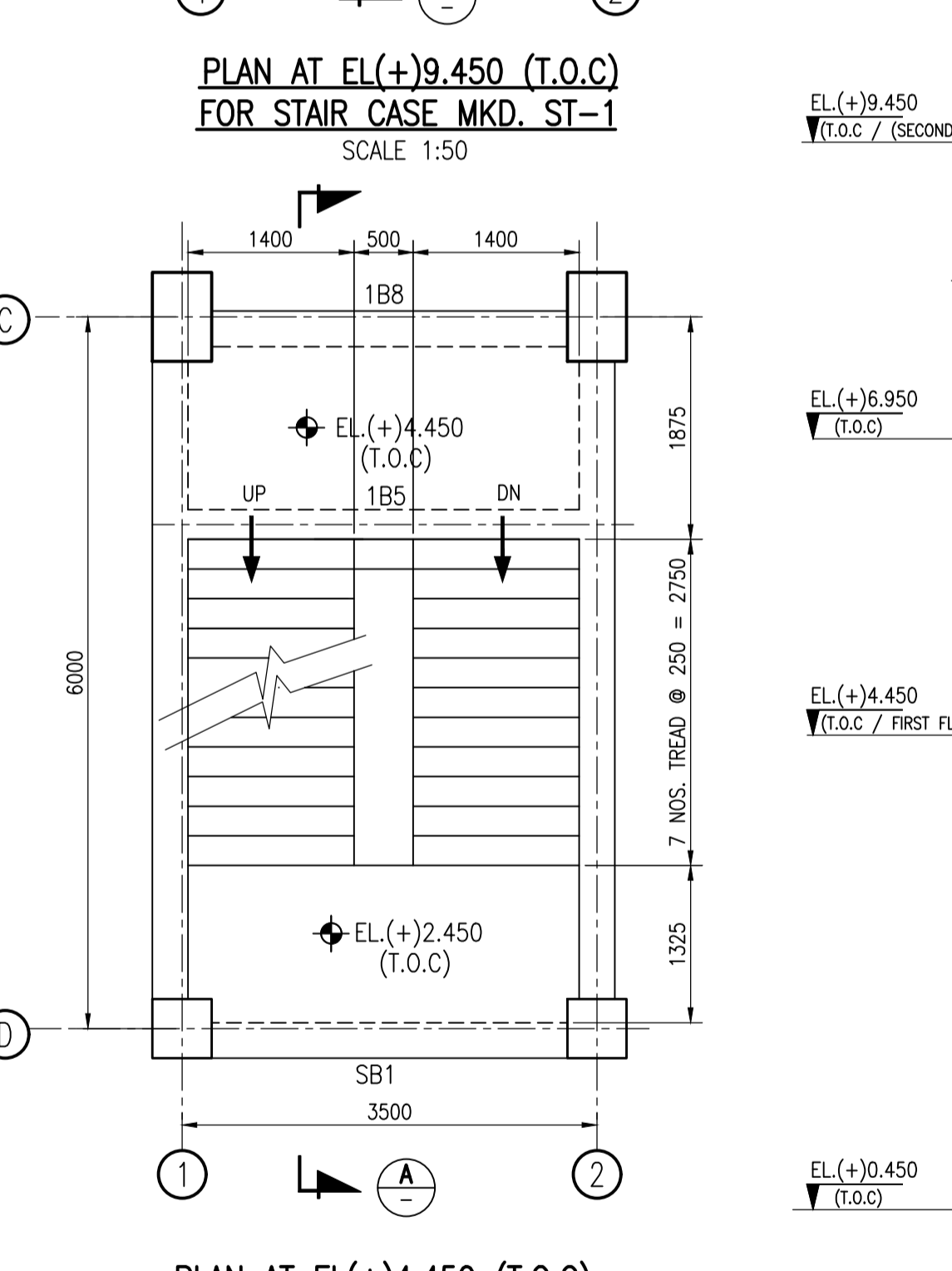
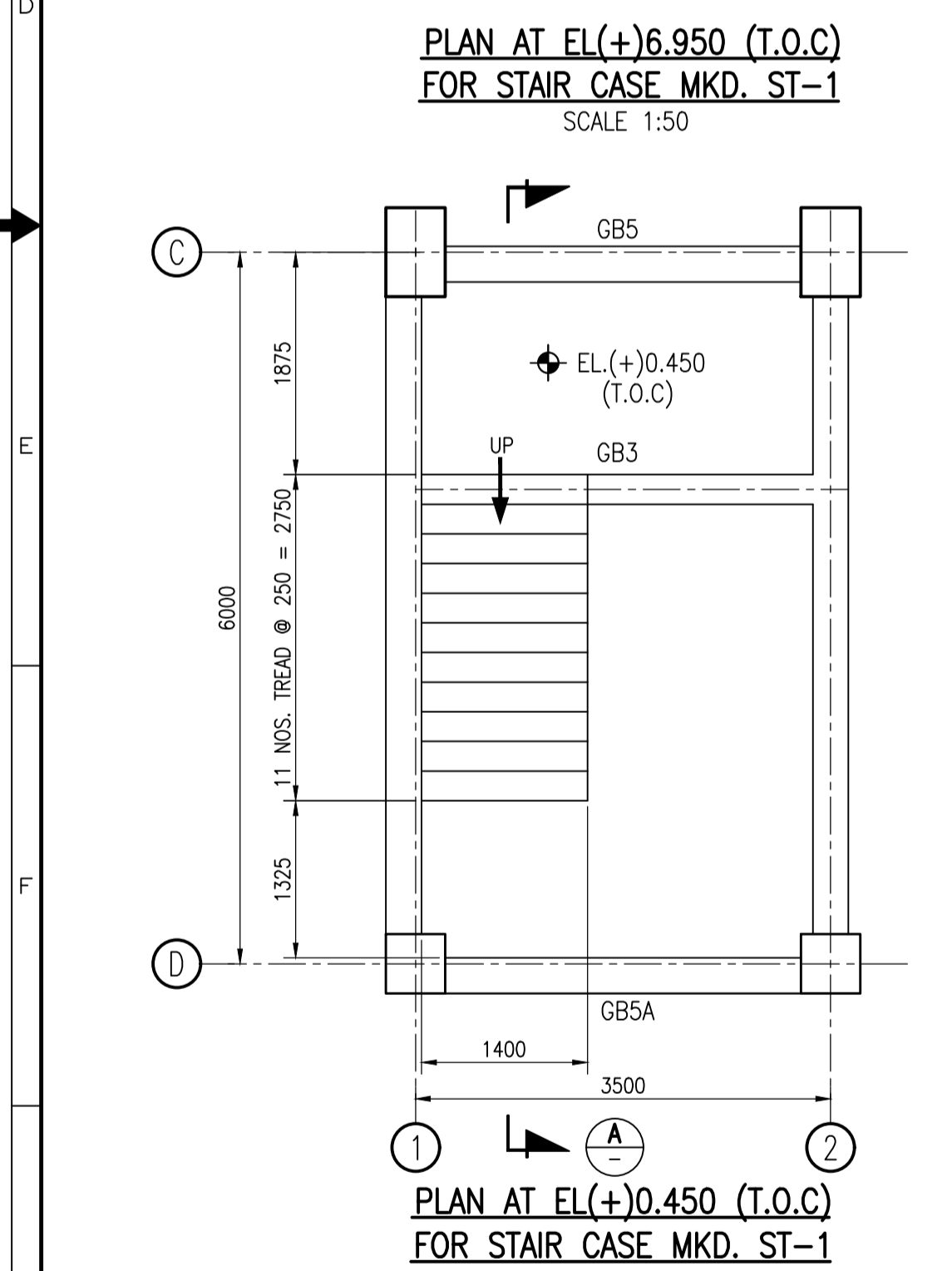
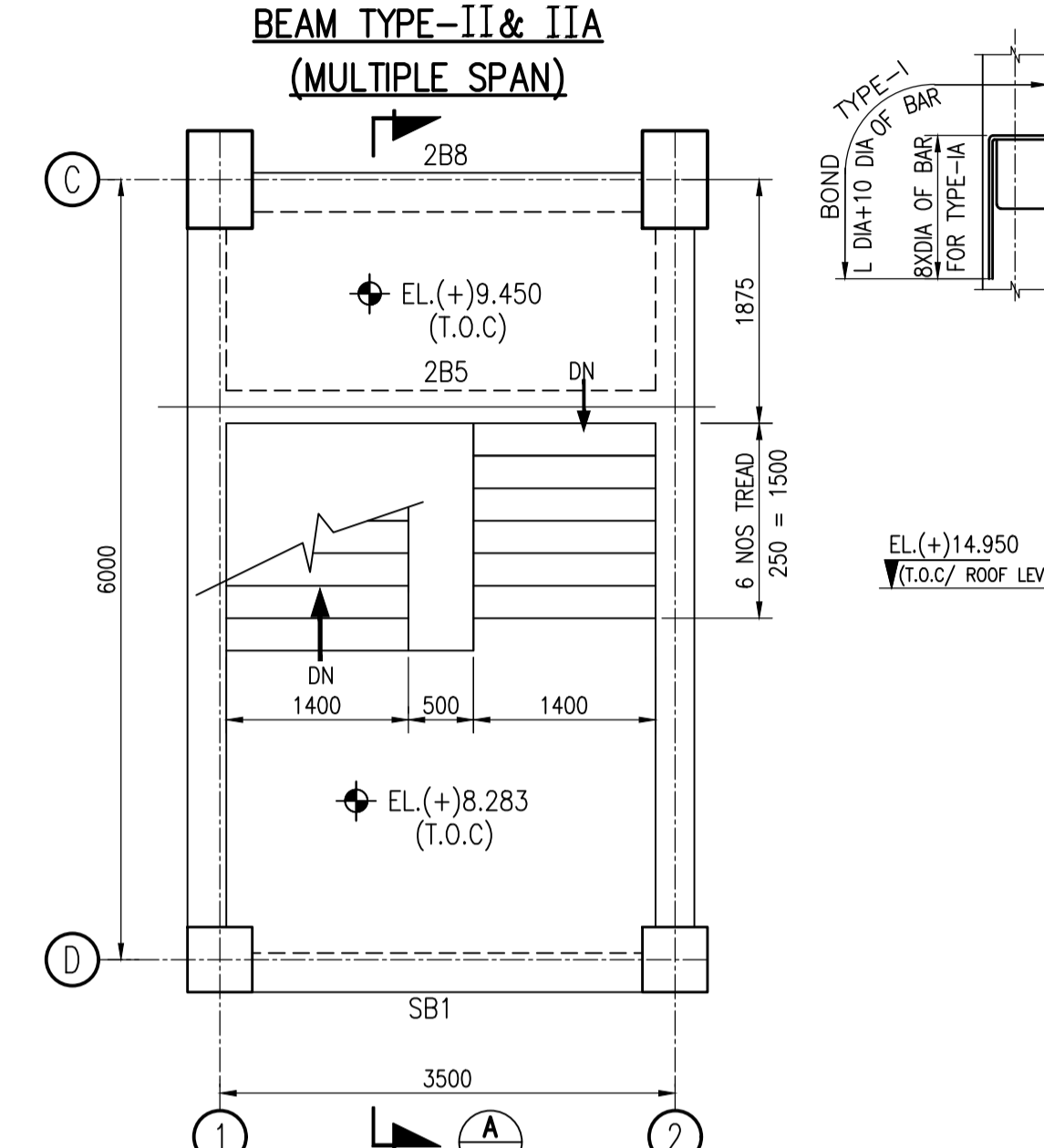
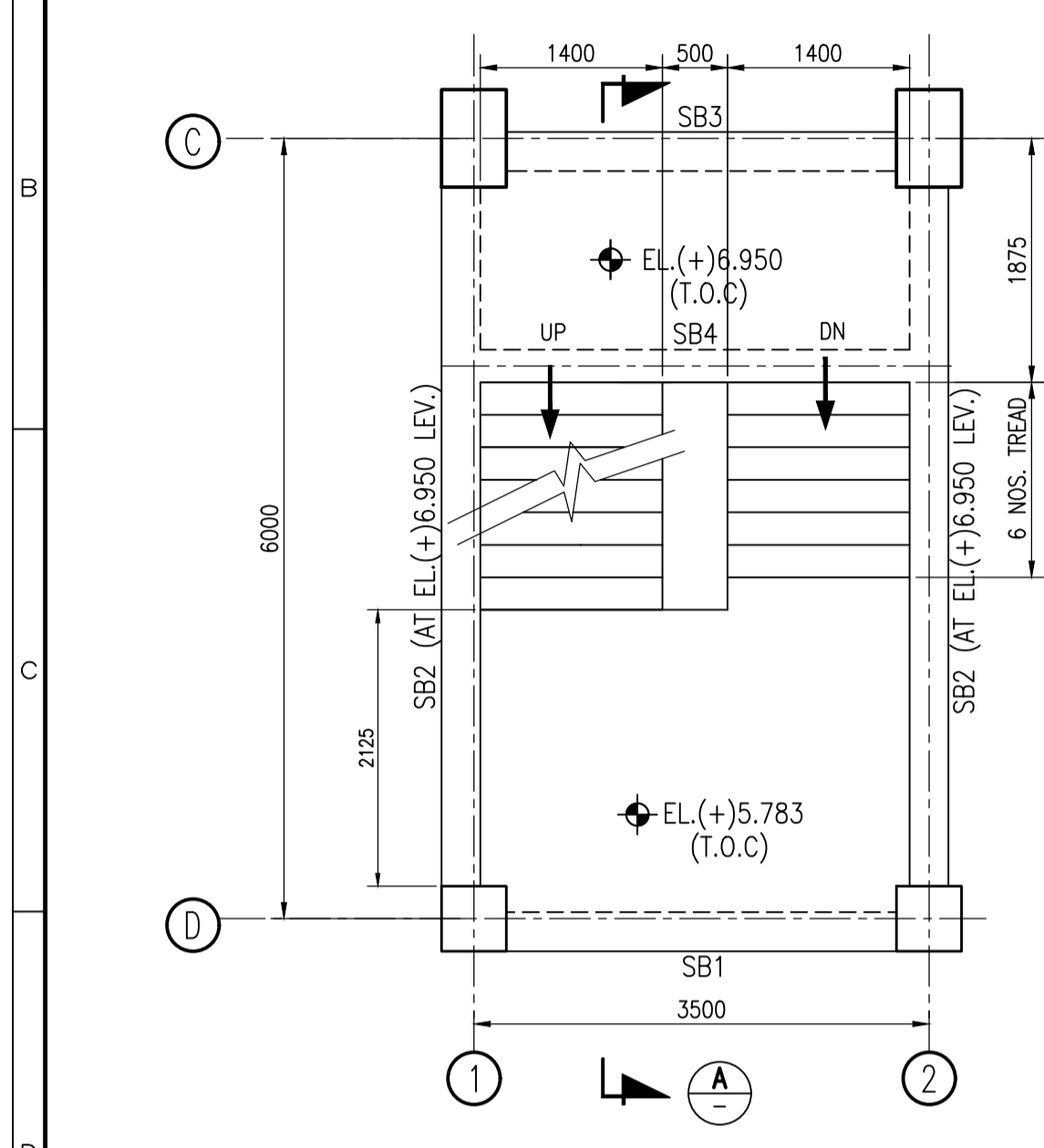
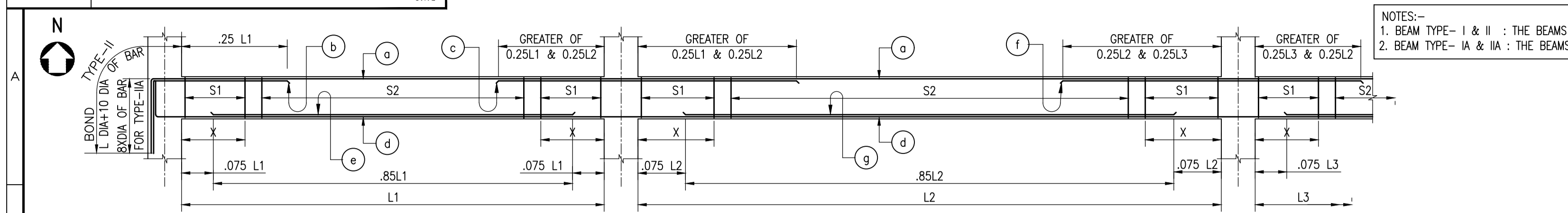
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 APPROVED: AR

JOB NO. 18A08  
 SCALE 1:100  
 DATE 22.02.2019

REV 1  
 SHEET 6 OF 6

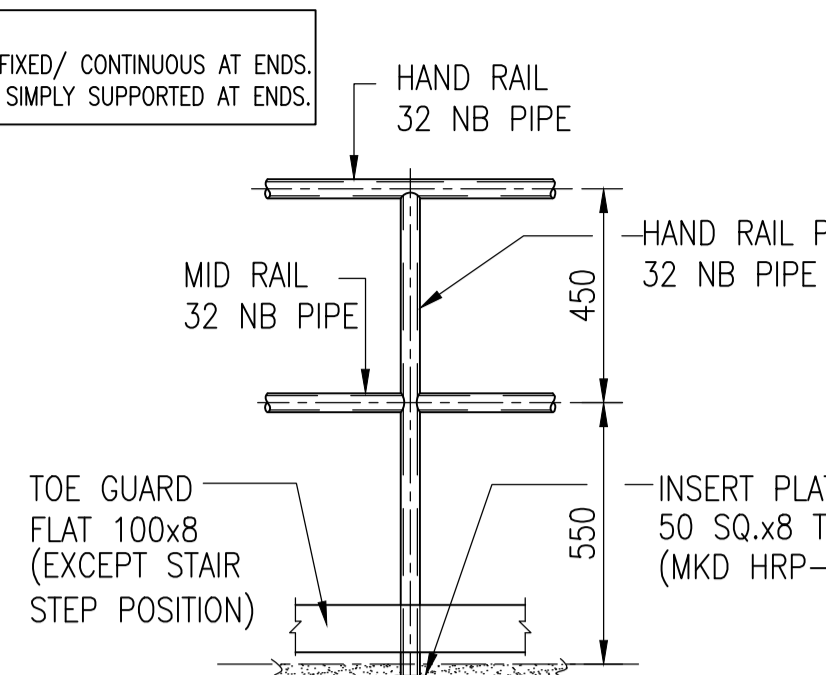
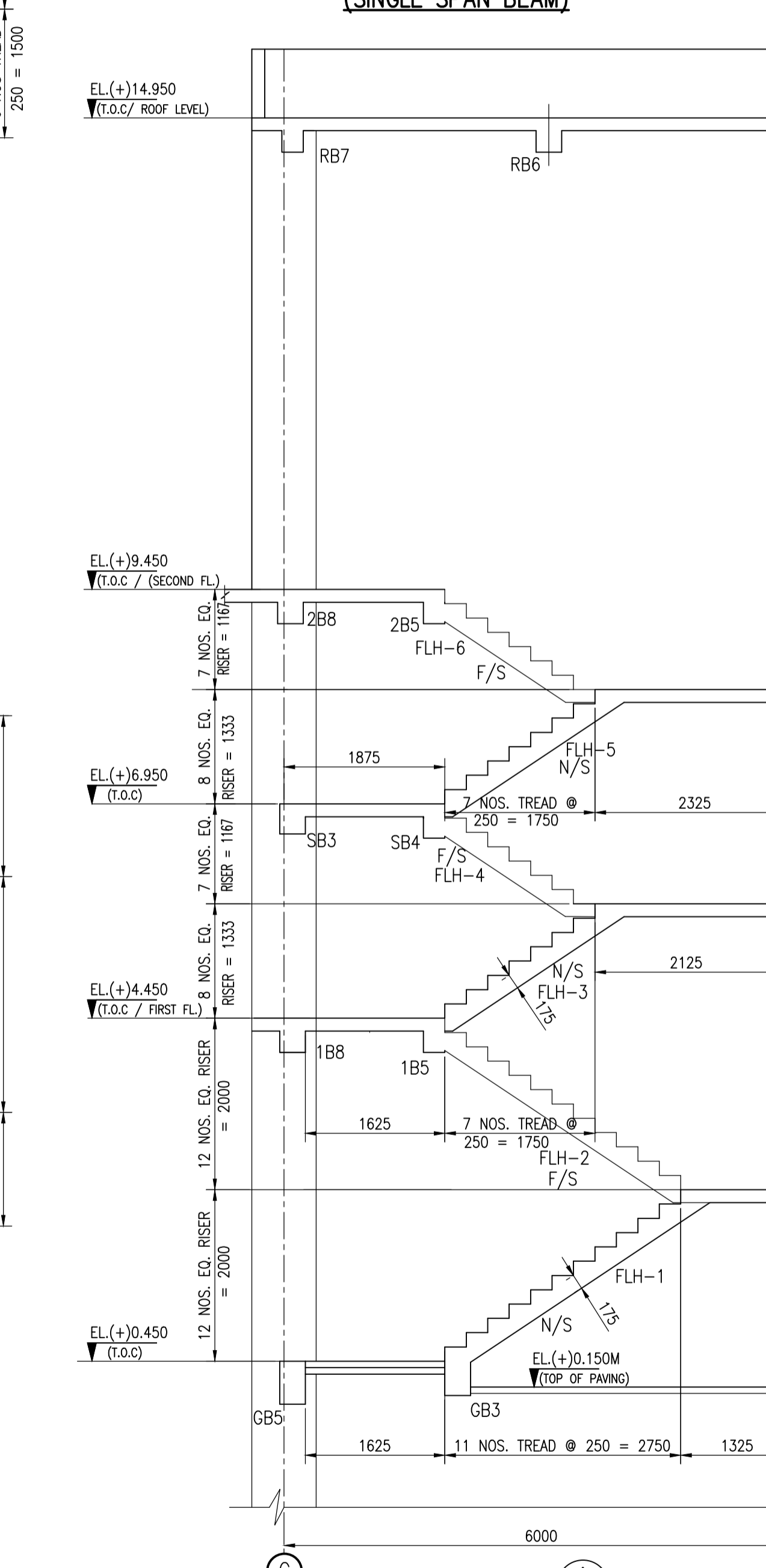
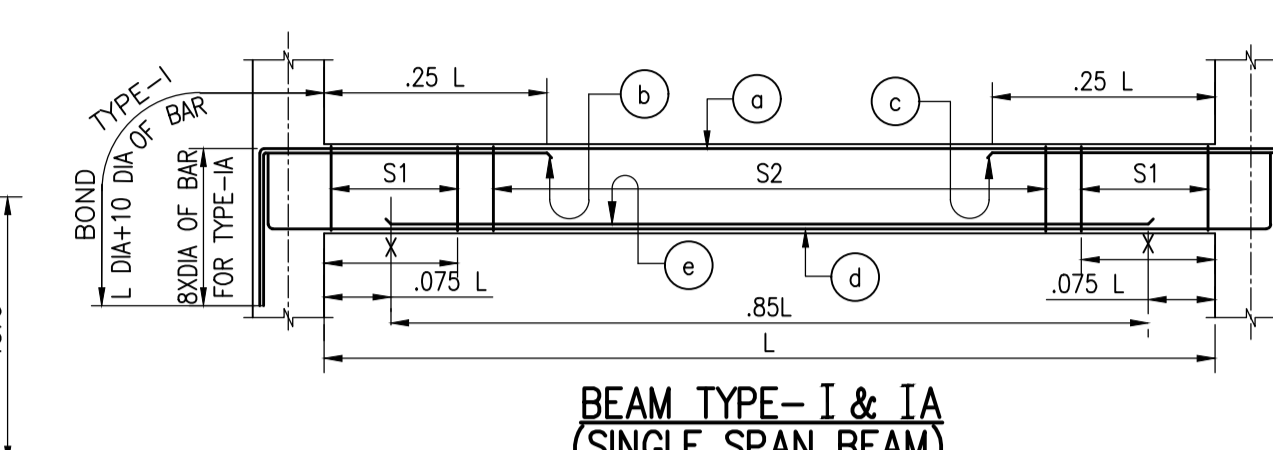
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RELEASE STATUS	DATE	SIGNATURE
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FOR TENDER ONLY		
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CIVIL & STRUCTURAL		
ELECTRICAL		
INSTRUMENTATION		
MECHANICAL		

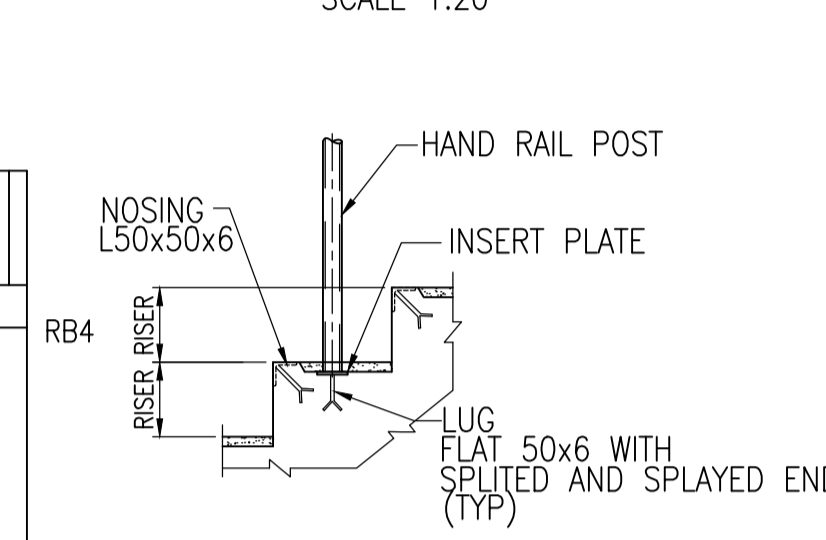


**SPECIAL NOTES:-**  
 1. LEVELS, DIMENSIONS AND ARRANGEMENT SHOWN IN THIS DRAWING TO BE CHECKED AND CONFIRMED (VERIFIED) BY MECHANICAL DEPARTMENT, CONSIDERING FUNCTIONAL REQUIREMENT.  
 2. PROVISION OF INSERT PLATES, CUT-OUT, PIPE SLEEVES ETC. TO BE CONSIDERED BEFORE CASTING AS PER REQUIREMENTS.

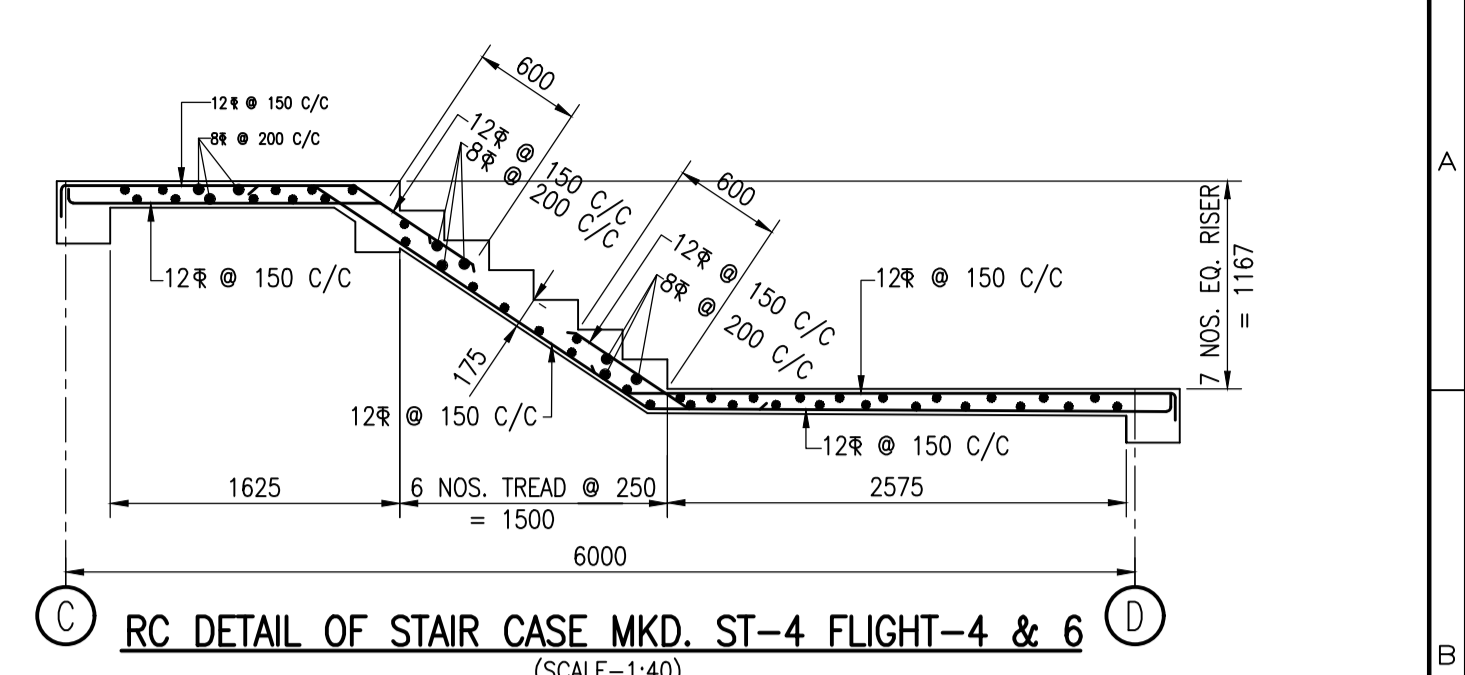
SCHEDULE OF STAIR BEAMS																
BEAM MKD.	BEAM TYPE	BEAM SIZE		ELEVATION (T.O.C)	REINFORCEMENTS					STIRRUPS		SIDE REINF. EACH FACE	REMARKS			
		WIDTH (mm)	DEPTH (mm)		a	b	c	d	e	f	g			S1	S2	X(mm)
SB1	I	300	500		3-20 $\phi$	2-25 $\phi$	2-25 $\phi$	3-20 $\phi$	-	-	-	2L-8 $\phi$ @ 125C/C	2L-8 $\phi$ @ 200C/C	1000	-	2nd. LAYER
SB2	I	300	600		3-25 $\phi$	2-16 $\phi$	2-16 $\phi$	2-20 $\phi$	-	-	-	2L-8 $\phi$ @ 200C/C	2L-8 $\phi$ @ 300C/C	1600	-	2nd. LAYER
SB3	I	300	600		3-25 $\phi$	2-20 $\phi$	2-20 $\phi$	3-25 $\phi$	-	-	-	2L-8 $\phi$ @ 125C/C	2L-8 $\phi$ @ 200C/C	1000	-	2nd. LAYER
SB4	IA	250	400		2-16 $\phi$	-	-	2-20 $\phi$	-	-	-	2L-8 $\phi$ @ 175C/C	2L-8 $\phi$ @ 250C/C	1050	-	-



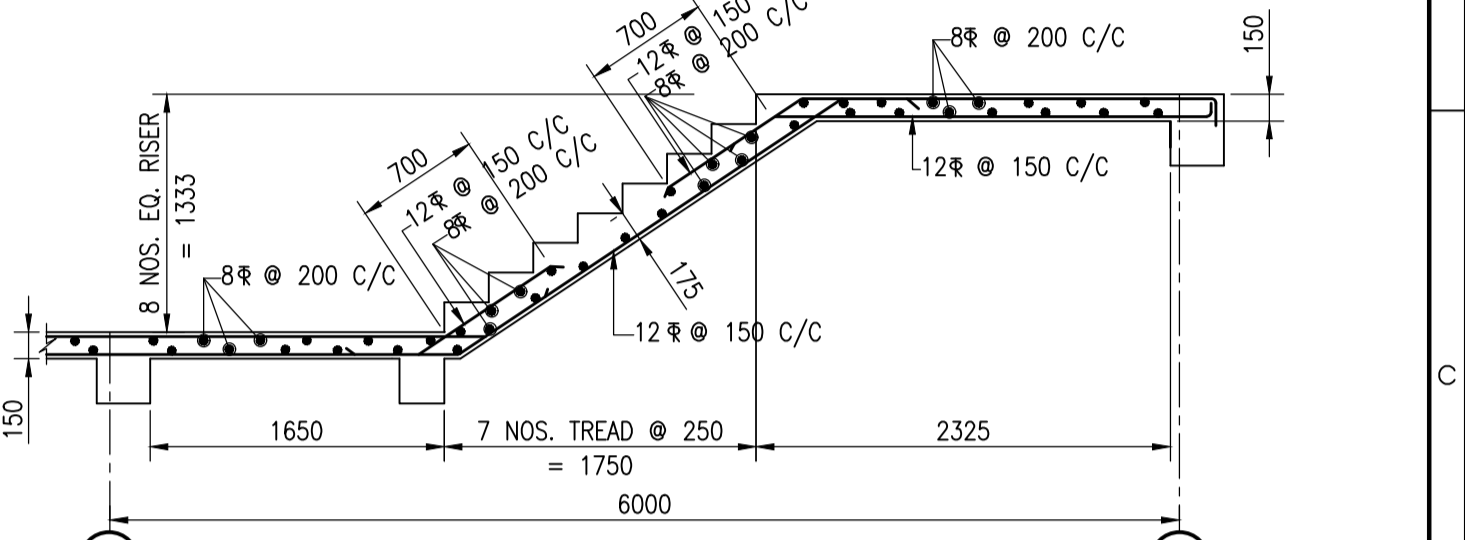
TYP DET. OF HAND RAILING SCALE 1:20



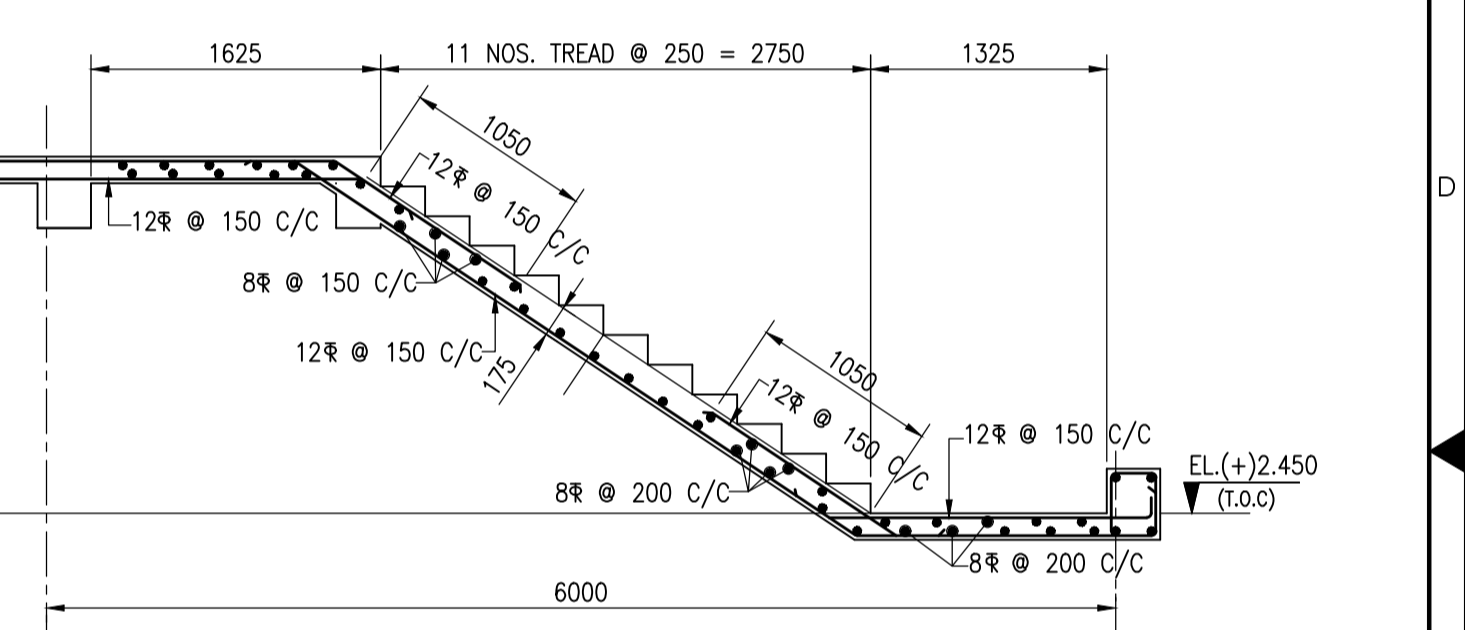
TYP DET. OF CURB & FLOOR FINISHING DET. OF STEPS SCALE 1:15



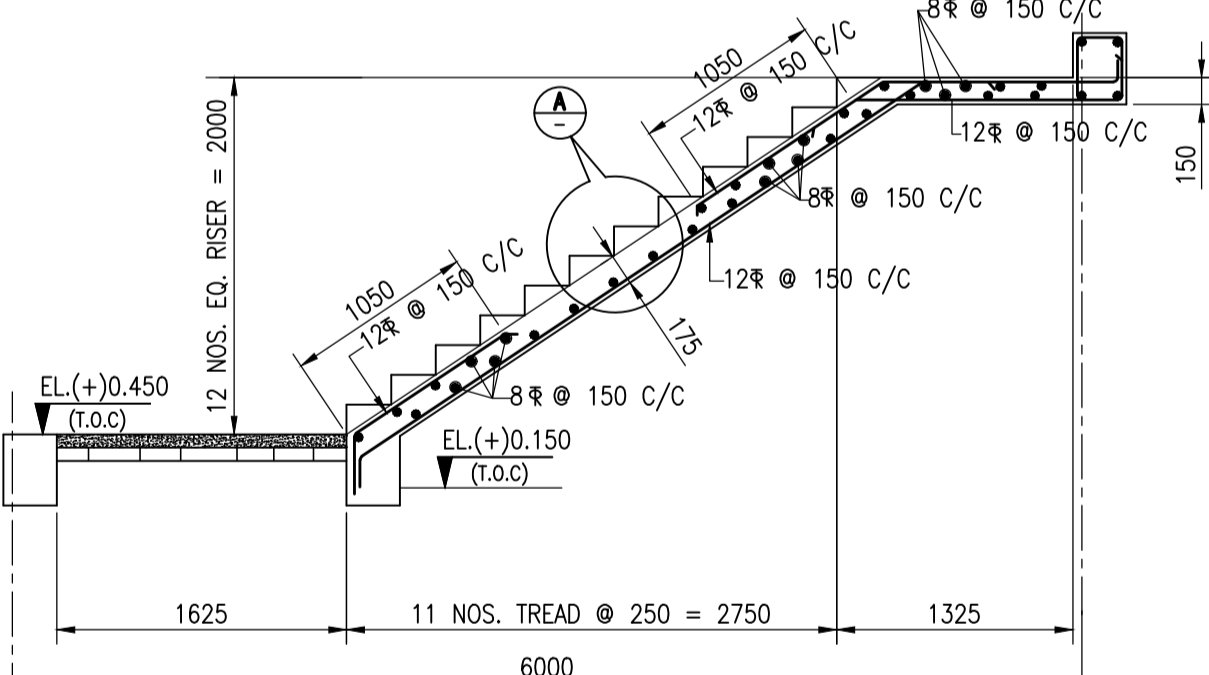
RC DETAIL OF STAIR CASE MKD. ST-4 FLIGHT-4 & 6 SCALE-1:40



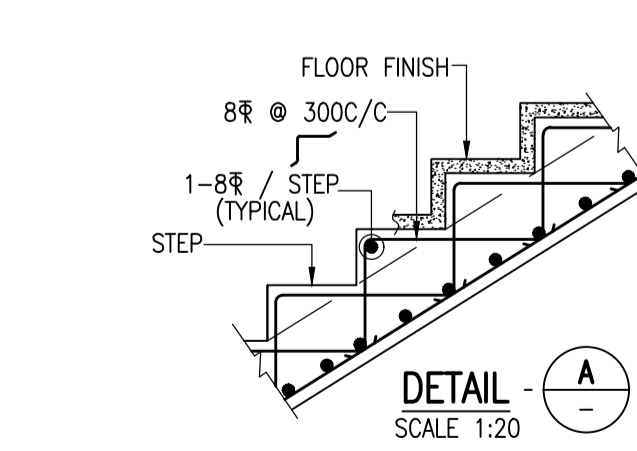
RC DETAIL OF STAIR CASE MKD. ST-3 FLIGHT-3 & 5 SCALE-1:40



RC DETAIL OF STAIR CASE MKD. ST-2 FLIGHT-2 SCALE-1:40



RC DETAIL OF STAIR CASE MKD. ST-1 FLIGHT-1 SCALE-1:40



DETAIL - A-A SCALE 1:20

- NOTES:-**
- ALL DIMENSIONS ARE IN MILLIMETRE & LEVELS ARE IN METRE UNLESS NOTED OTHERWISE.
  - CONCRETE GRADE SHALL BE AS FOLLOWS :  
 a) STRUCTURAL CONCRETE - M30  
 c) PLAIN CEMENT CONCRETE (PCC) - M10.
  - GRADE OF STEEL SHALL BE Fe 500 AS PER IS 1786
  - CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS.  
 TOP      BOTTOM      SIDE  
 SLAB      25      25      45  
 BEAM      45      45      45
  - LAP LENGTH & DEVELOPMENT LENGTH SHALL BE 50 TIMES DIA. OF BAR.
  - FOR GENERAL NOTES REFER DWG NO. -18A08-DWG-C-0001 & C-0002
- REF DWGS:**
- 18A08-DWG-E-0401 - ELECTRICAL DWG.
  - 18A08-DWG-A-0002, 0003 & 0004 - ARCHITECTURAL DWG.
  - 18A08-DWG-M-0001 TO 0008 - MECHANICAL DWG.
  - 18A08-DWG-C-0001 TO 0004 - CIVIL & STRUCTURAL DWG.

**ISSUED FOR CONSTRUCTION**

IFFCO PARADEEP OWNER: IFFCO PARADEEP

PROJECT: IFFCO PARADEEP AFBC BOILER CONTROL ROOM

TITLE: CONTROL BUILDING GA AND RC DETAIL OF STAIR CASE MKD. ST-1

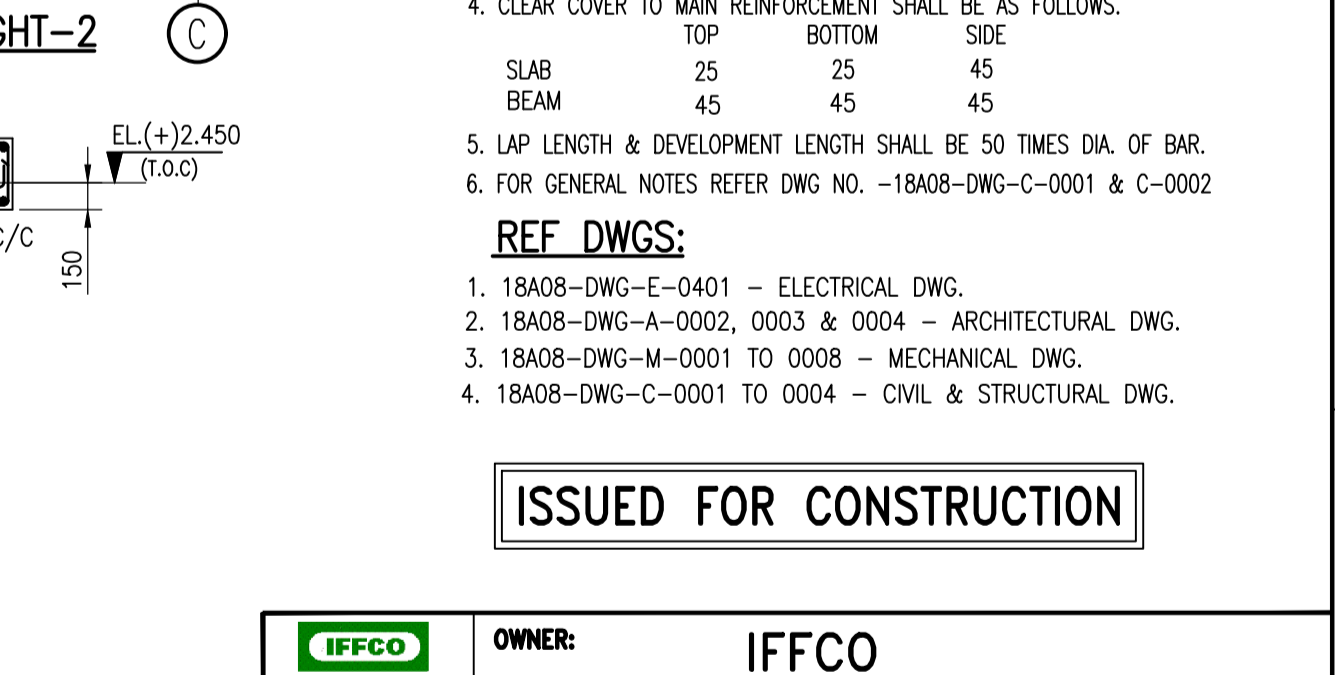
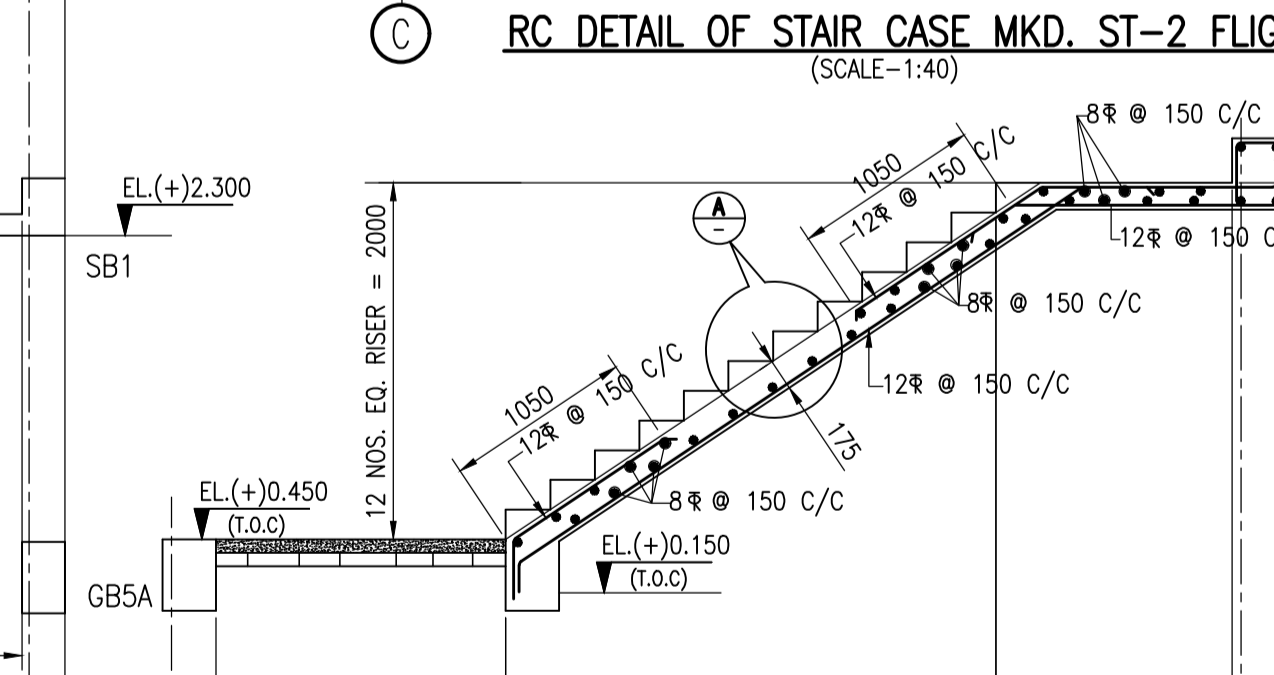
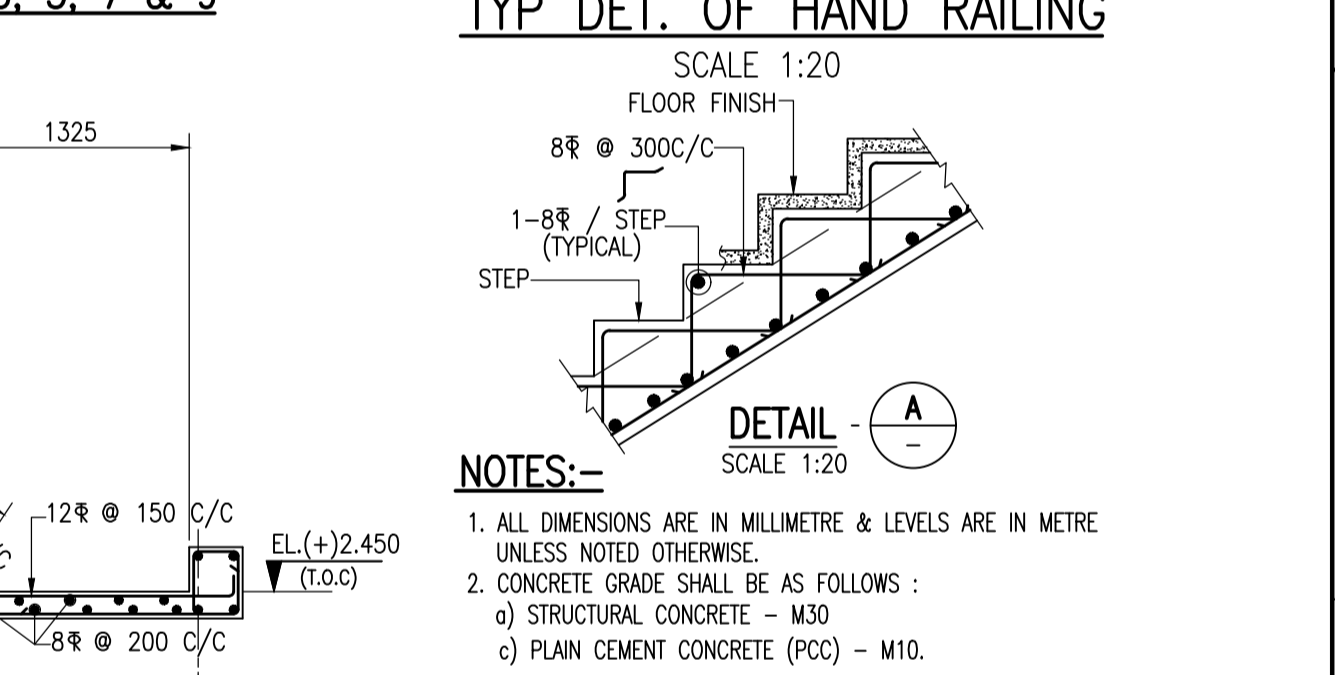
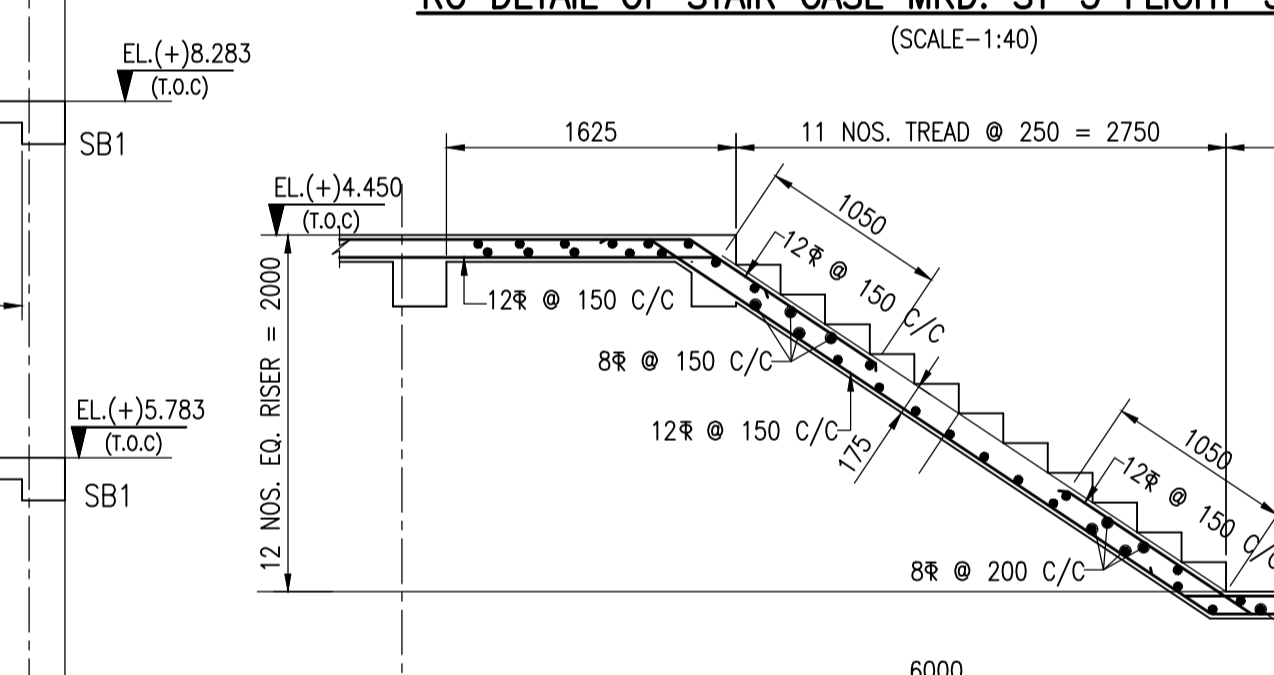
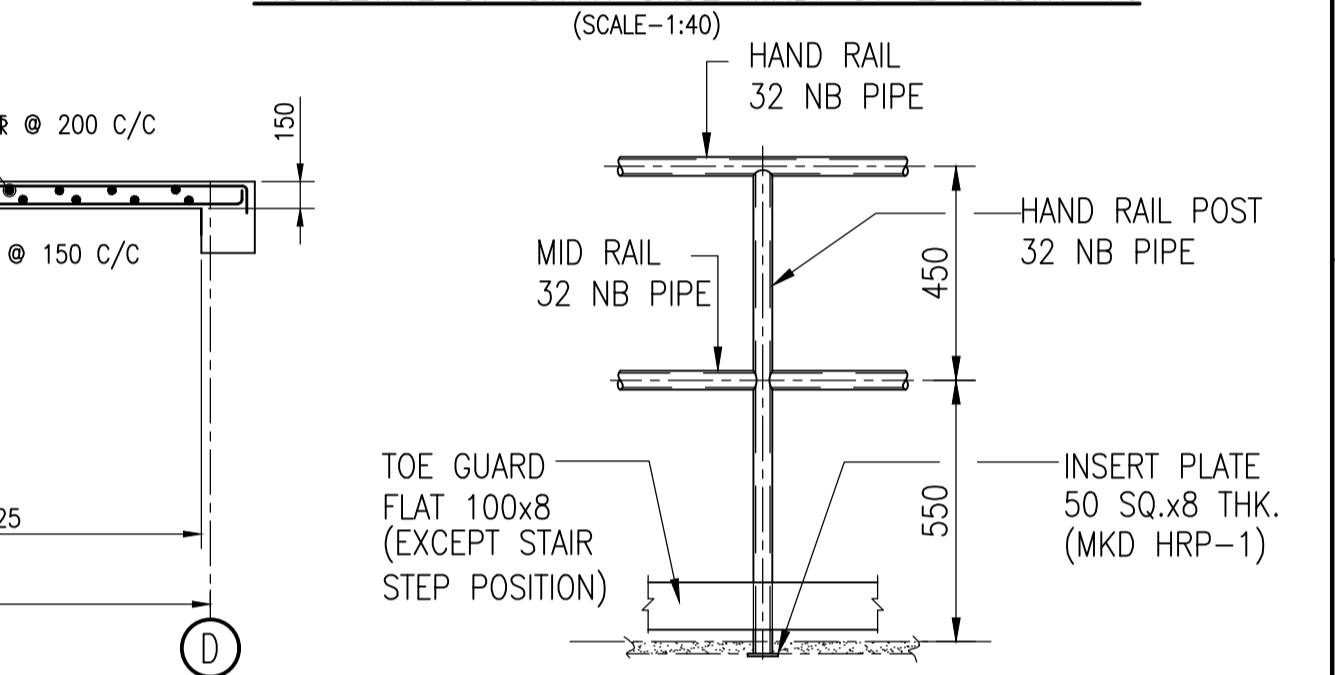
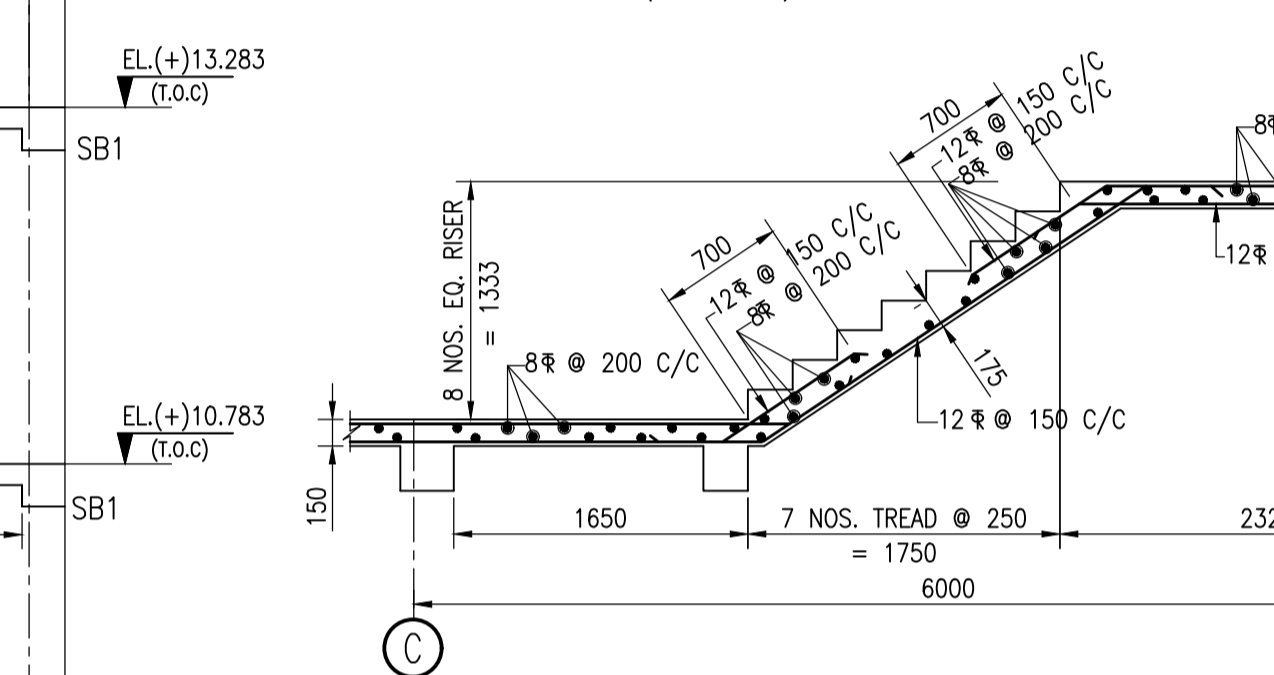
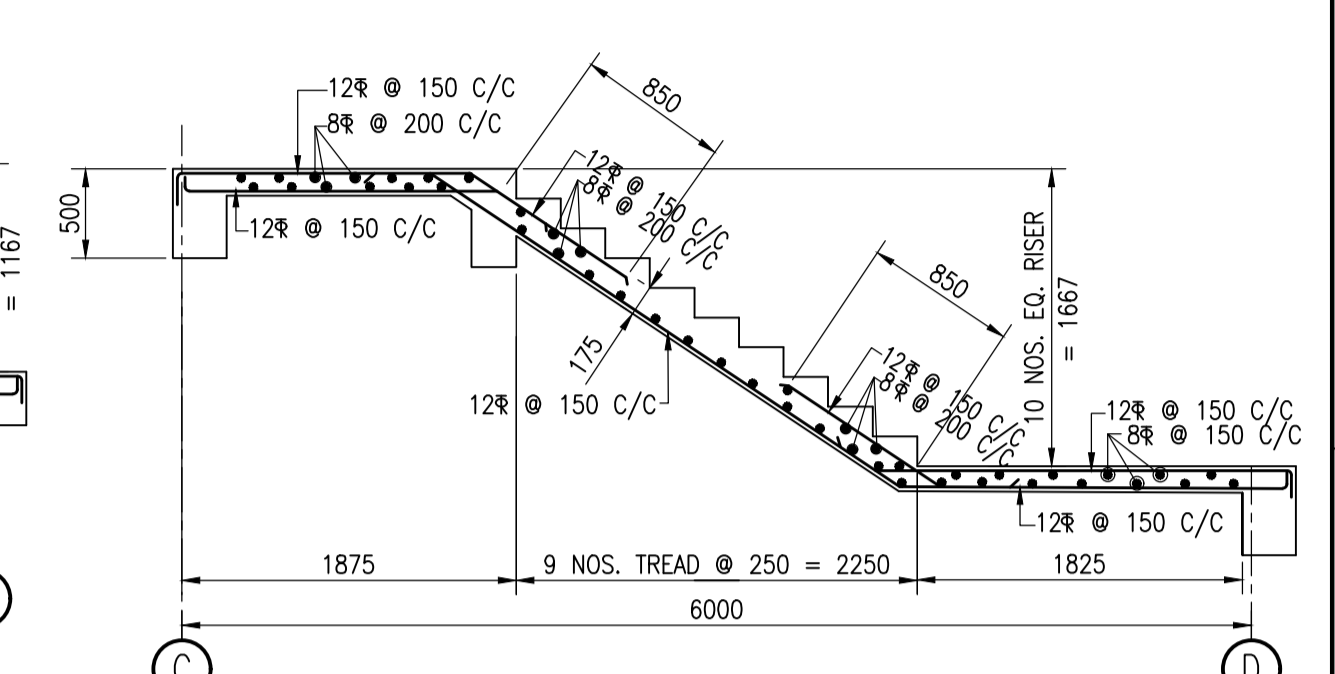
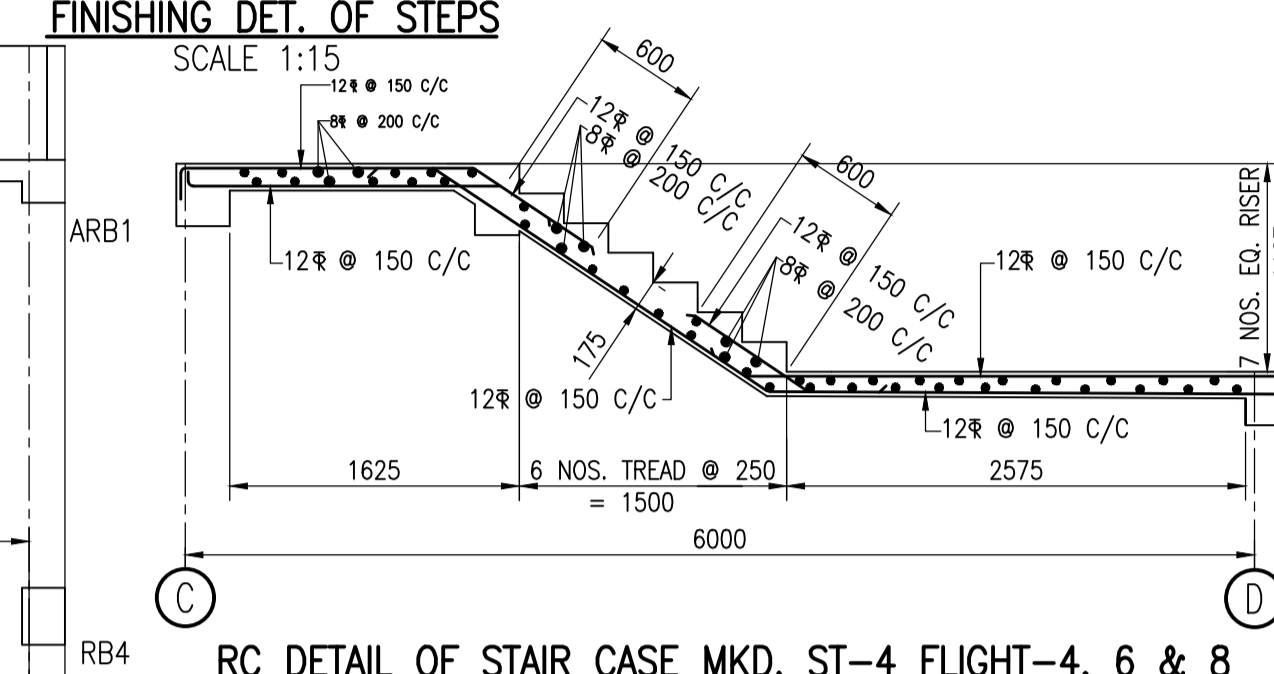
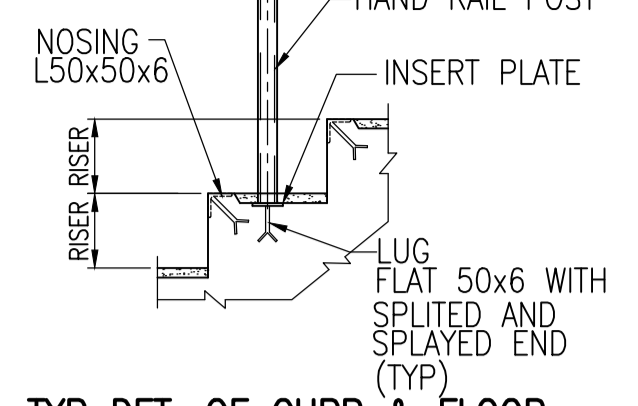
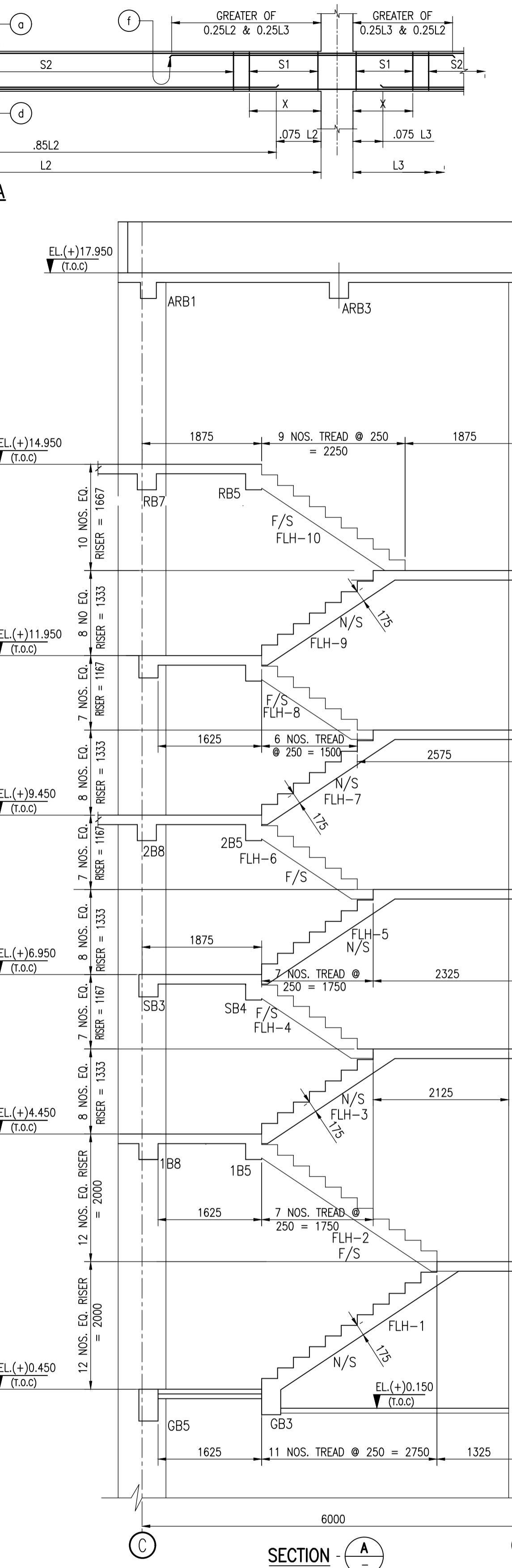
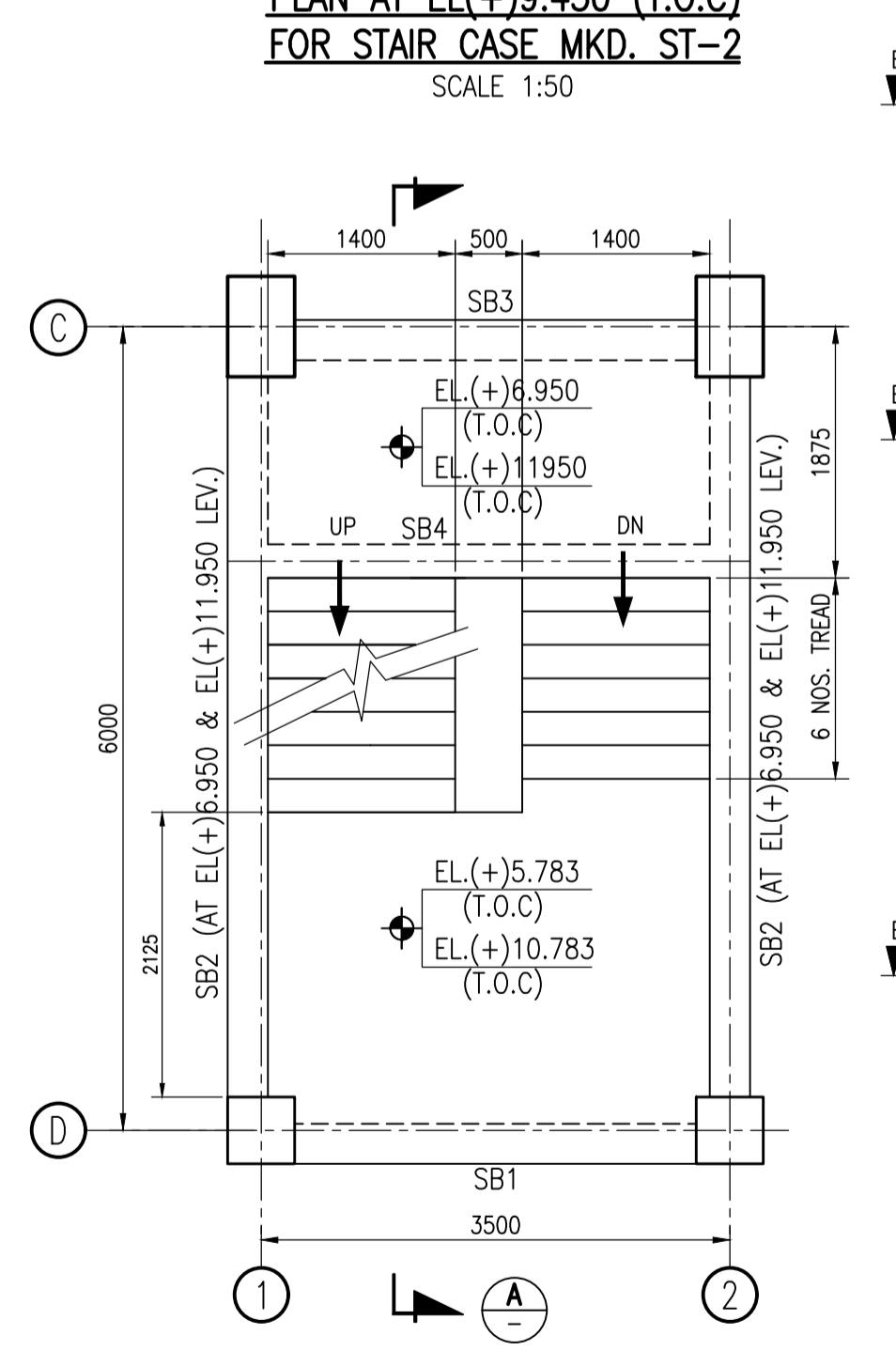
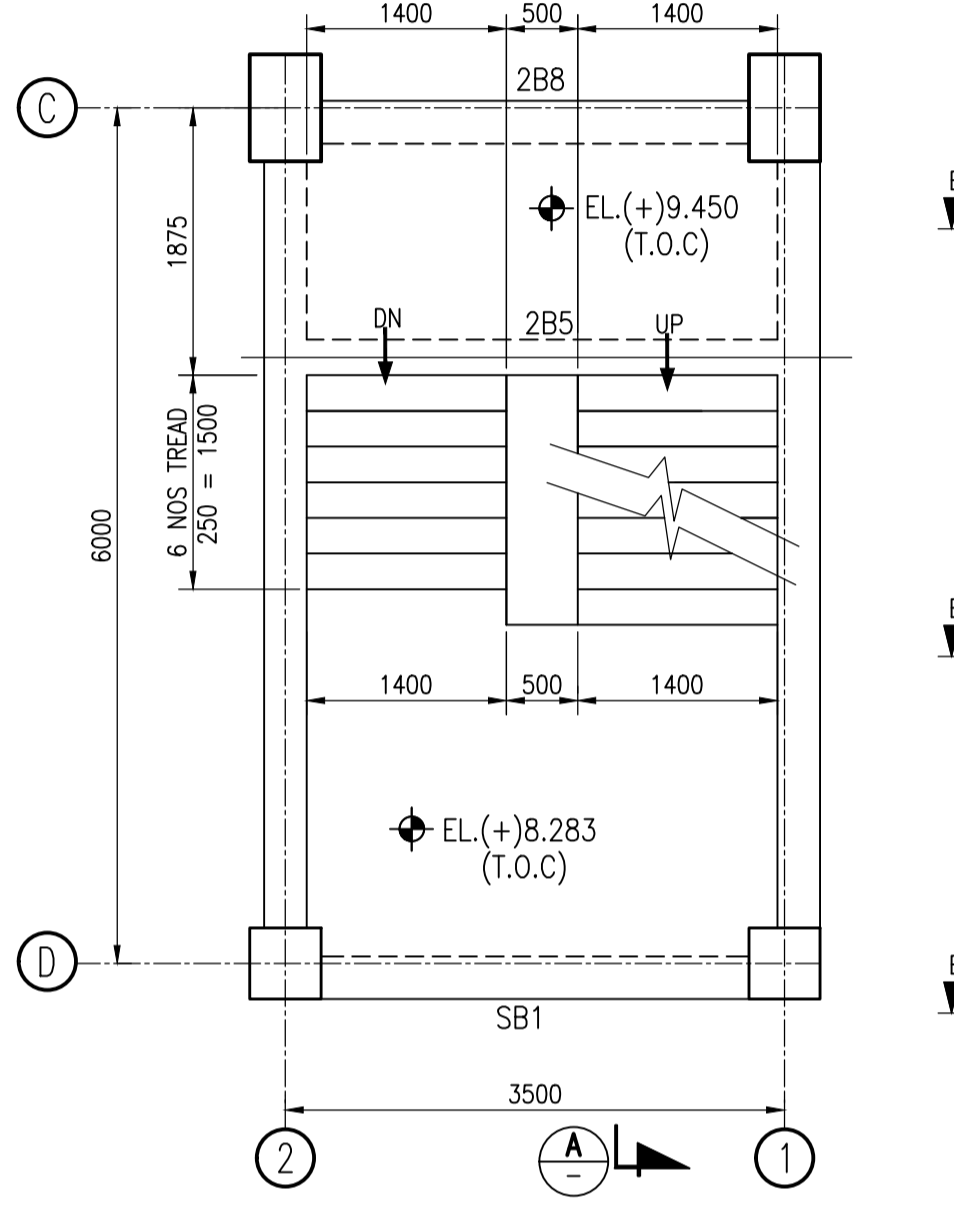
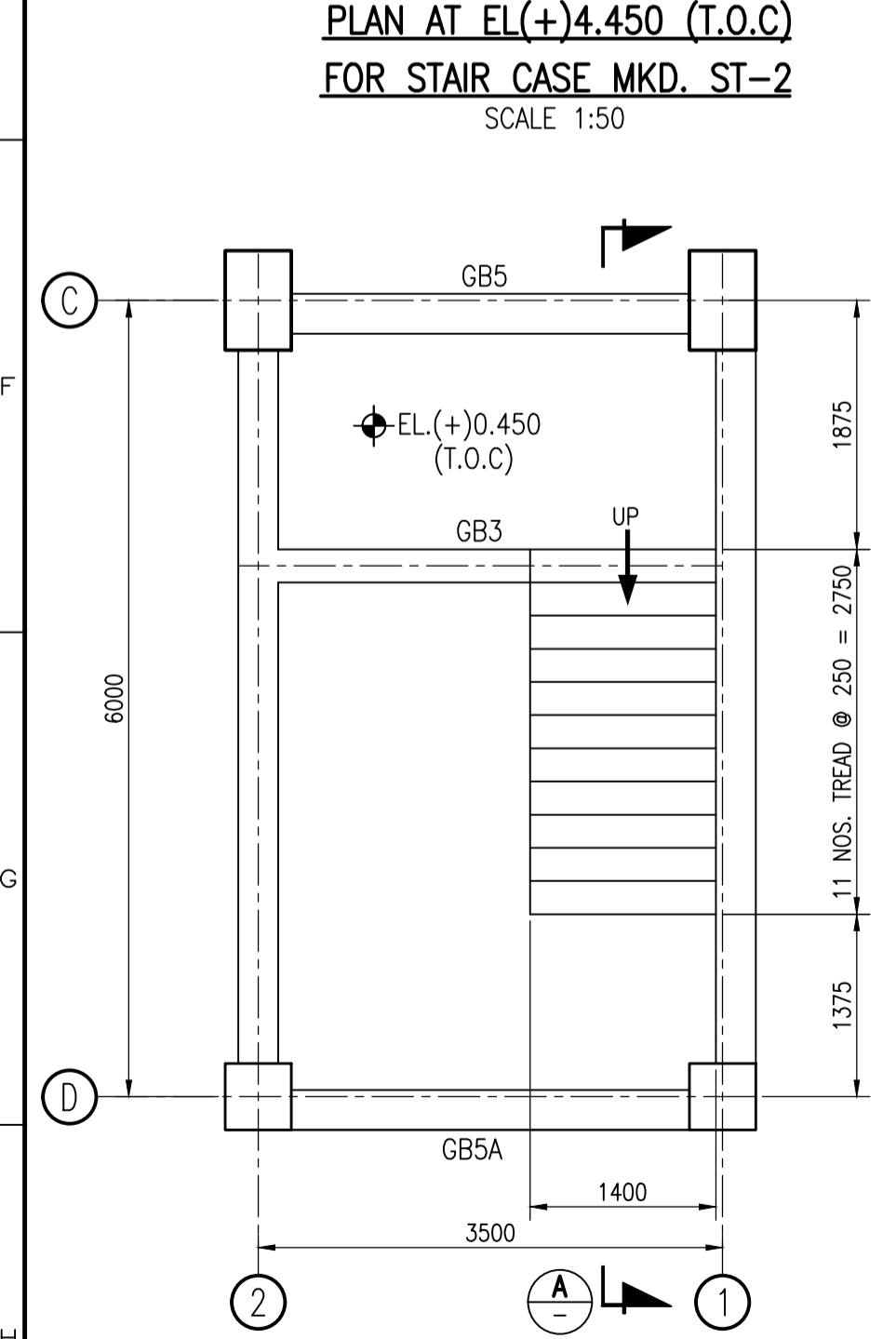
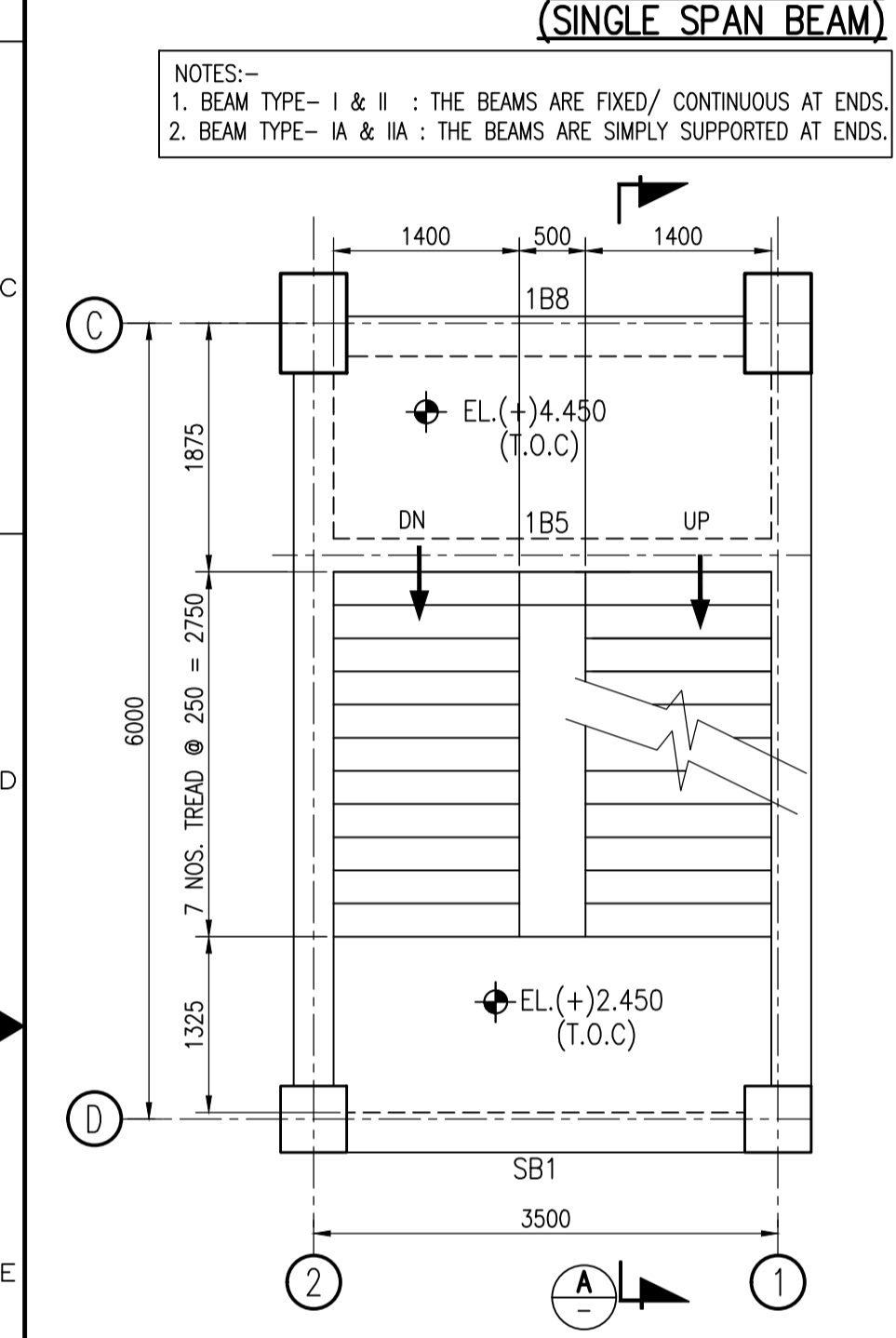
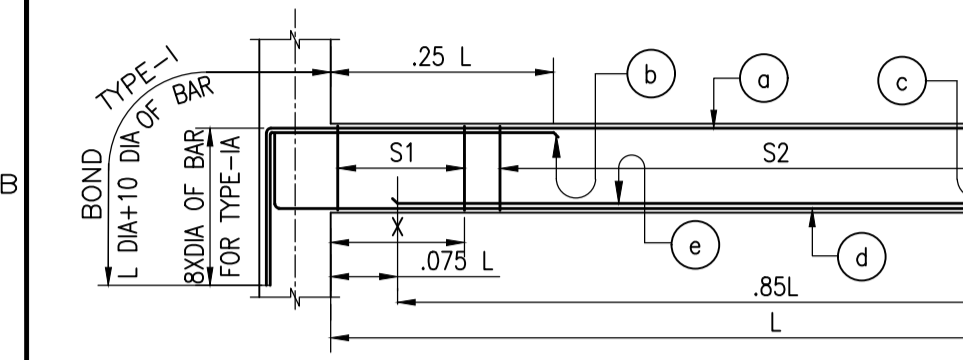
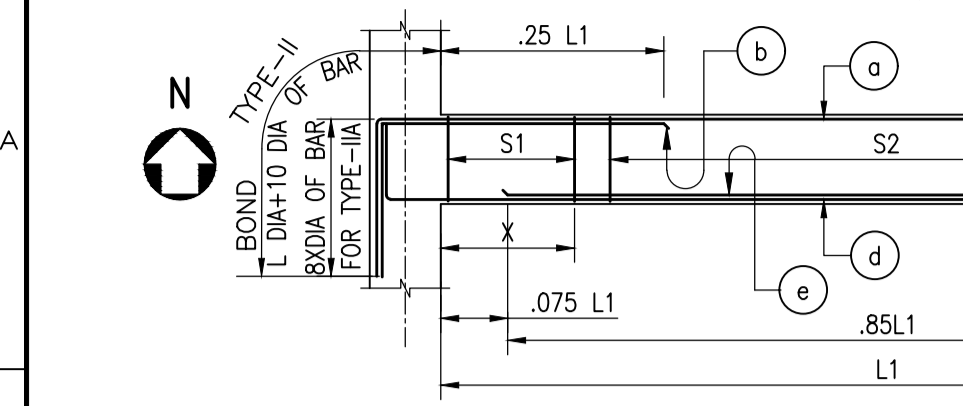
DEVELOPMENT CONSULTANTS PVT LTD. CONSULTING ENGINEERS KOLKATA - MUMBAI - CHENNAI - NEW DELHI

PREPARED	ASHIS	JOB NO.	18A08
CHECKED	NC	SCALE	AS NOTED
APPROVED	ARYA	DATE	22.02.2019

DWG. NO. 18A008-DWG-C-0005

FILE LOCATION: E:\MVC\IFFCO BOILER CONTROL ROOM\Drawing Prep\IFFCO CS PROGRESS DRGS UPTO 17-10-18\18A08-DWG-C-0005(SHT-1)-RO 17-10-18.dwg  
 PLOT DATE: 10/17/2019 12:18:59 PM

A1 [641 x 594]



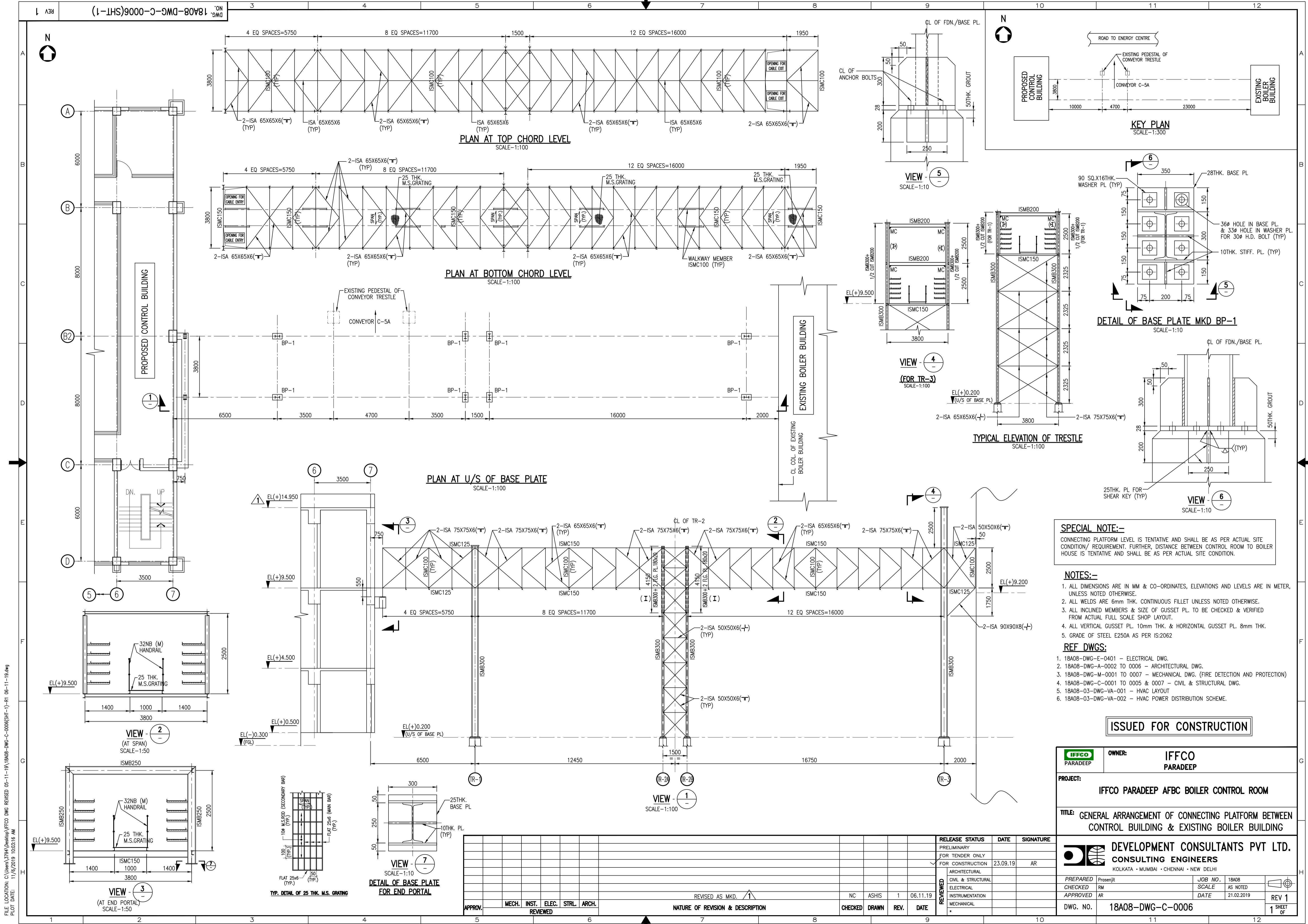
BEAM MKD.	BEAM TYPE	BEAM SIZE (WIDTH x DEPTH (mm))	ELEVATION (T.O.C)	REINFORCEMENTS							STIRRUPS		SIDE REINF. EACH FACE	REMARKS		
				a	b	c	d	e	f	g	S1	S2			X(mm)	
SB1	I	300 x 500	AS PER PLANS & STAIR DWGS	3-20#	2-25#	2-25#	3-20#	-	-	-	-	2L-8# @ 125C/C	2L-8# @ 200C/C	1000	-	2nd. LAYER
SB2	I	300 x 600	AS PER PLANS & STAIR DWGS	3-25#	2-16#	2-16#	3-25#	-	-	-	-	2L-8# @ 200C/C	2L-8# @ 300C/C	1600	-	2nd. LAYER
SB3	I	300 x 600	AS PER PLANS & STAIR DWGS	3-25#	2-20#	2-20#	3-25#	-	-	-	-	2L-8# @ 125C/C	2L-8# @ 200C/C	1000	-	2nd. LAYER
SB4	IA	250 x 400	AS PER PLANS & STAIR DWGS	2-16#	-	-	2-20#	-	-	-	-	2L-8# @ 175C/C	2L-8# @ 250C/C	1050	-	-

ISSUED FOR CONSTRUCTION

**IFFCO** PARADEEP  
**OWNER:** IFFCO PARADEEP  
**PROJECT:** IFFCO PARADEEP AFBC BOILER CONTROL ROOM  
**TITLE:** CONTROL BUILDING GA AND RC DETAIL OF STAIR CASE MKD. ST-2

**DEVELOPMENT CONSULTANTS PVT LTD.**  
 CONSULTING ENGINEERS  
 KOLKATA - MUMBAI - CHENNAI - NEW DELHI  
 PREPARED: ASHS  
 CHECKED: NC  
 APPROVED: ARAY  
 JOB NO.: 18A08  
 SCALE: AS NOTED  
 DATE: 22.02.2019  
 DWG. NO.: 18A08-DWG-C-0005  
 REV 0  
 2 SHEET OF

APPROV.	MECH.	INST.	ELEC.	STR.	ARCH.	NATURE OF REVISION & DESCRIPTION	CHECKED	DRAWN	REV.	DATE



FILE LOCATION: C:\Users\JSA\Desktop\IFFCO DWG REVISED 05-11-19\18A08-DWG-C-0006(SHT-1)-R1 06-11-19.dwg  
 PLOT DATE: 11/02/2019 10:32:16 AM

**SPECIAL NOTE:-**  
 CONNECTING PLATFORM LEVEL IS TENTATIVE AND SHALL BE AS PER ACTUAL SITE CONDITION/ REQUIREMENT. FURTHER, DISTANCE BETWEEN CONTROL ROOM TO BOILER HOUSE IS TENTATIVE AND SHALL BE AS PER ACTUAL SITE CONDITION.

- NOTES:-**
1. ALL DIMENSIONS ARE IN MM & CO-ORDINATES, ELEVATIONS AND LEVELS ARE IN METER, UNLESS NOTED OTHERWISE.
  2. ALL WELDS ARE 6mm THK. CONTINUOUS FILLET UNLESS NOTED OTHERWISE.
  3. ALL INCLINED MEMBERS & SIZE OF GUSSET PL. TO BE CHECKED & VERIFIED FROM ACTUAL FULL SCALE SHOP LAYOUT.
  4. ALL VERTICAL GUSSET PL. 10mm THK. & HORIZONTAL GUSSET PL. 8mm THK.
  5. GRADE OF STEEL E250A AS PER IS:2062

- REF DWGS:**
1. 18A08-DWG-E-0401 - ELECTRICAL DWG.
  2. 18A08-DWG-A-0002 TO 0006 - ARCHITECTURAL DWG.
  3. 18A08-DWG-M-0001 TO 0007 - MECHANICAL DWG. (FIRE DETECTION AND PROTECTION)
  4. 18A08-DWG-C-0001 TO 0005 & 0007 - CIVIL & STRUCTURAL DWG.
  5. 18A08-03-DWG-VA-001 - HVAC LAYOUT
  6. 18A08-03-DWG-VA-002 - HVAC POWER DISTRIBUTION SCHEME.

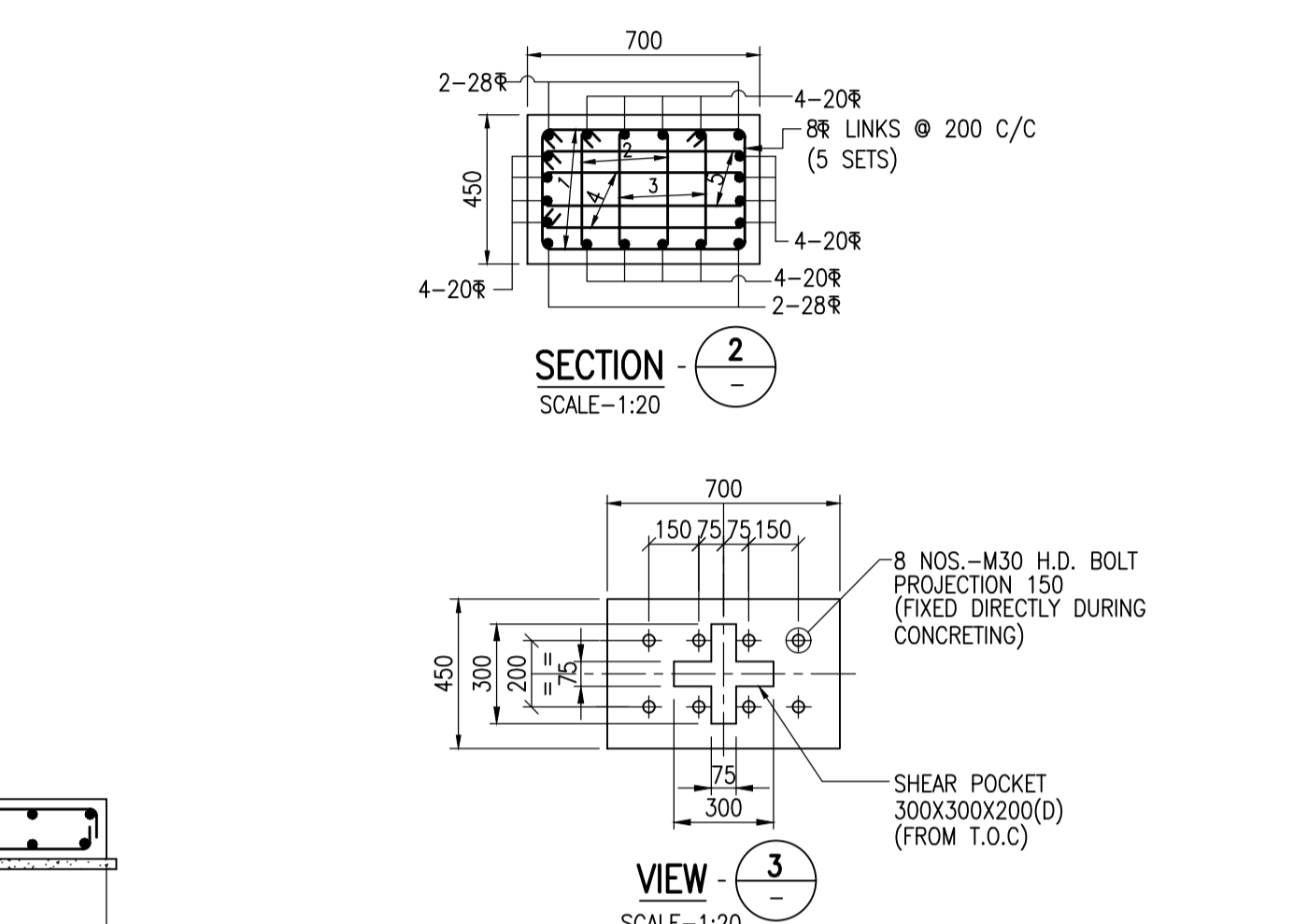
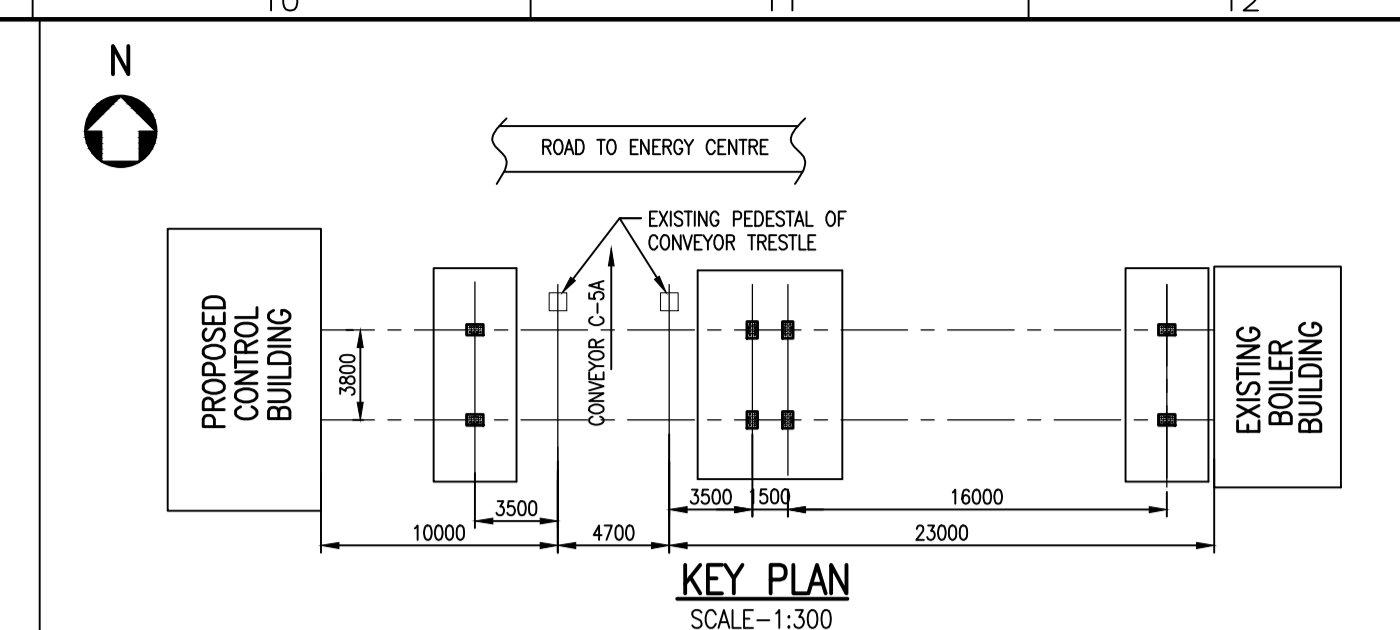
**ISSUED FOR CONSTRUCTION**

<b>IFFCO</b> PARADEEP	<b>OWNER:</b> IFFCO PARADEEP
<b>PROJECT:</b> IFFCO PARADEEP AFBC BOILER CONTROL ROOM	
<b>TITLE:</b> GENERAL ARRANGEMENT OF CONNECTING PLATFORM BETWEEN CONTROL BUILDING & EXISTING BOILER BUILDING	
<b>DEVELOPMENT CONSULTANTS PVT LTD.</b> CONSULTING ENGINEERS KOLKATA • MUMBAI • CHENNAI • NEW DELHI	
<b>PREPARED:</b> Prosenjit	<b>JOB NO.:</b> 18A08
<b>CHECKED:</b> RM	<b>SCALE:</b> AS NOTED
<b>APPROVED:</b> AR	<b>DATE:</b> 21.02.2019
<b>DWG. NO.:</b> 18A08-DWG-C-0006	<b>REV 1</b>
	<b>SHEET 1 OF 1</b>

REVISION	DATE	SIGNATURE
1	23.09.19	AR

NO.	DATE	BY	CHKD.	REV.	DATE	DESCRIPTION
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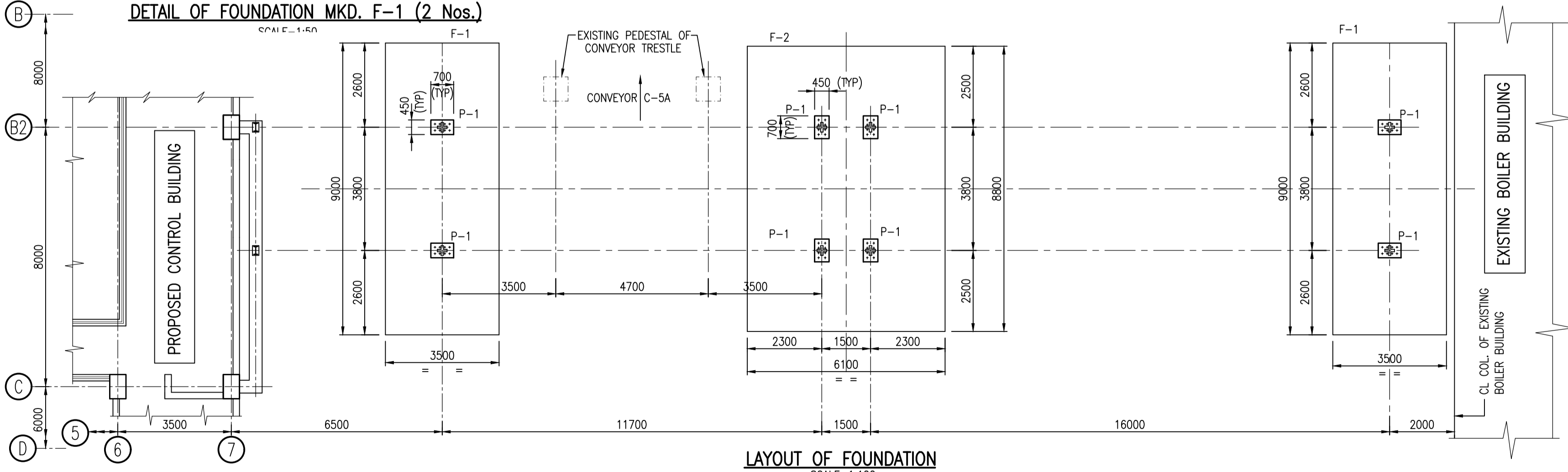
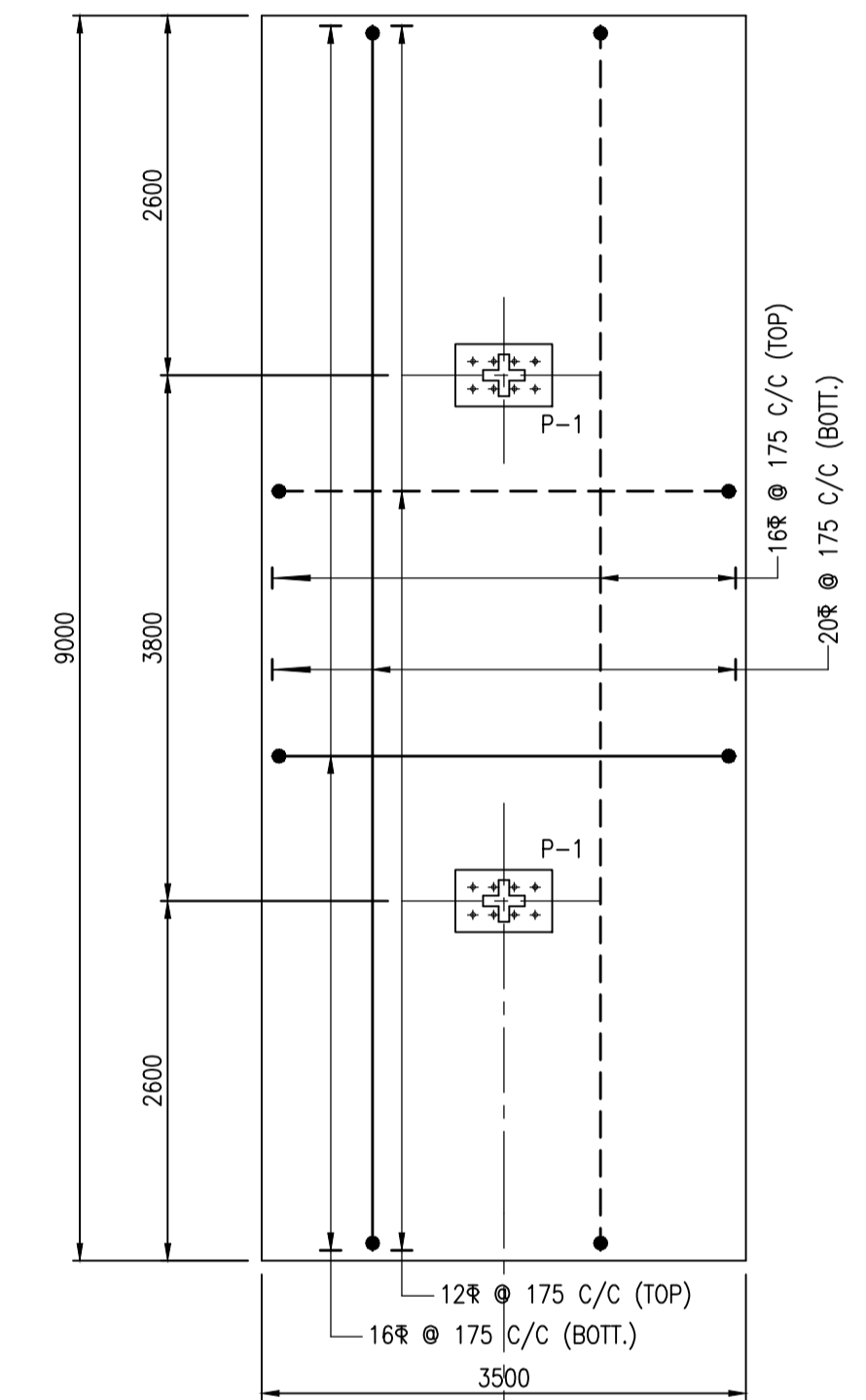
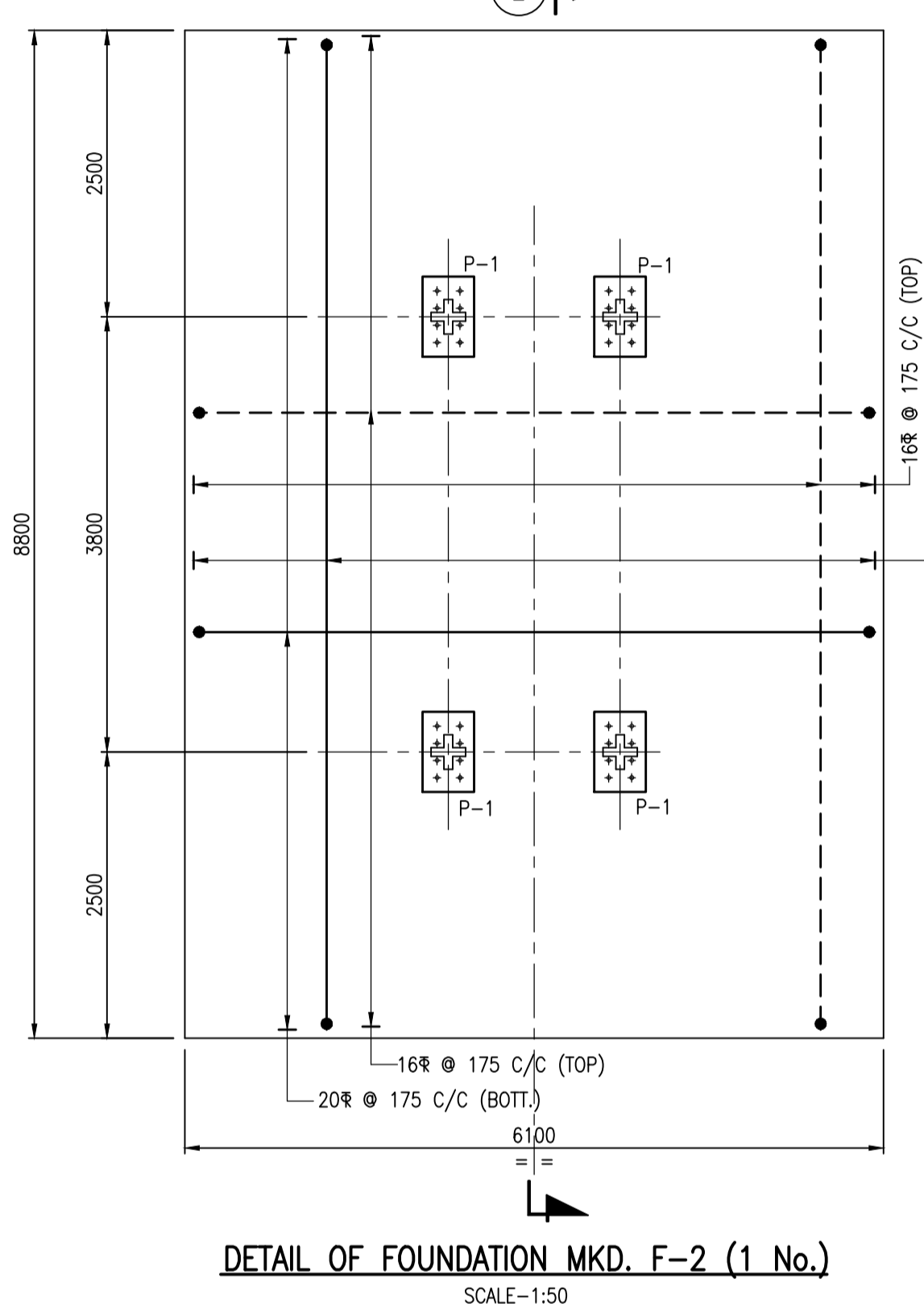
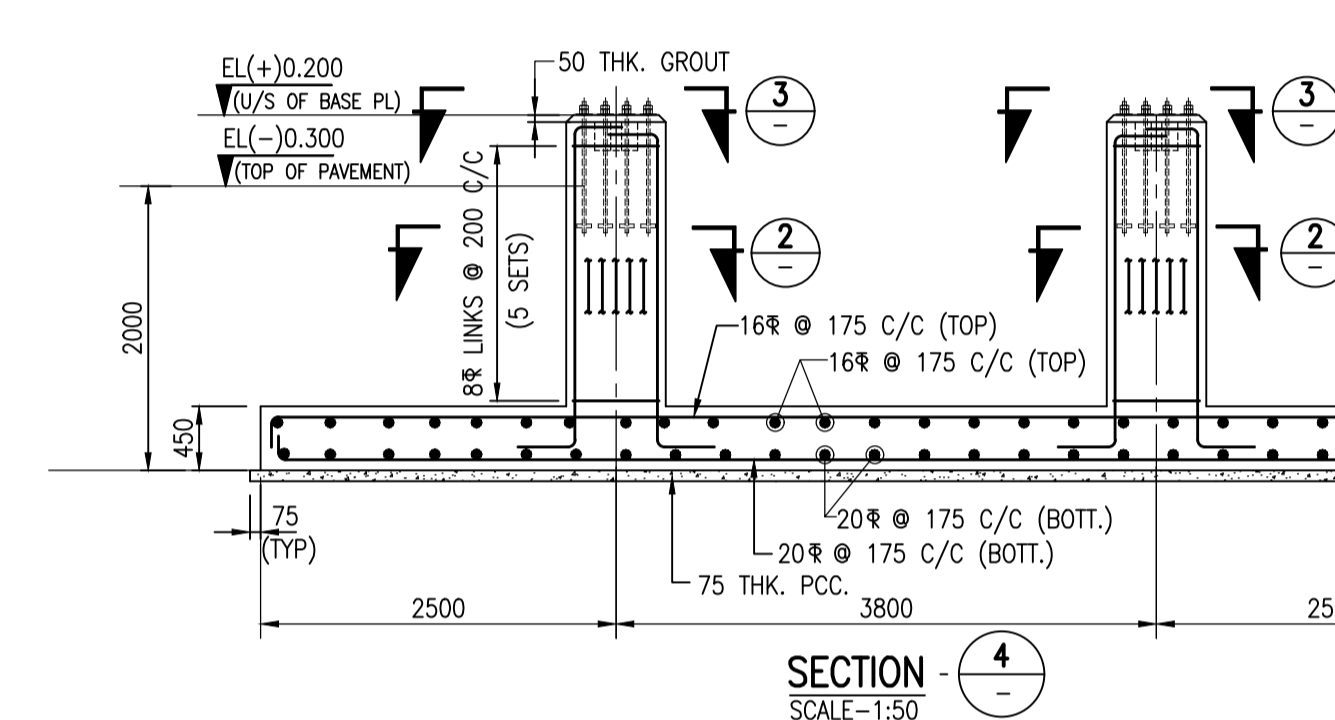
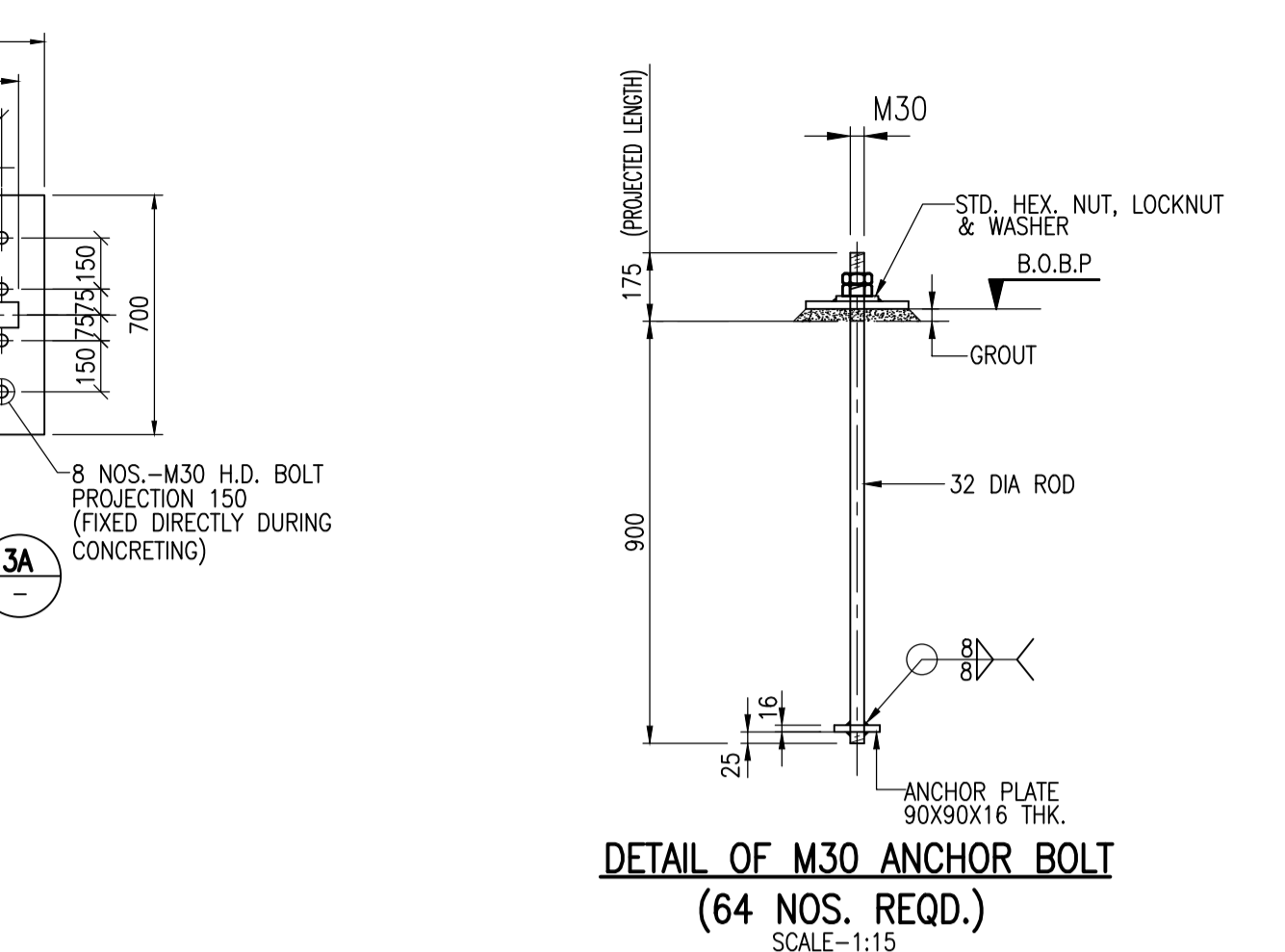
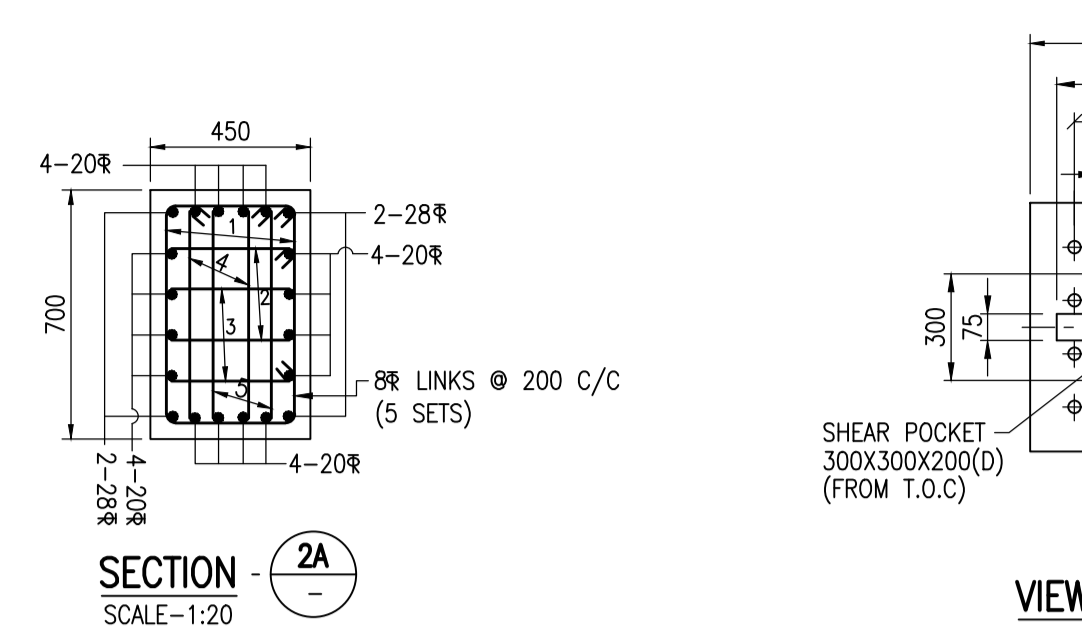


- LEGEND:-**  
TOP BAR -----  
BOTTOM BAR - - - - -
- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETRE AND LEVELS IN METERS UNO.
  - ALL CO-ORDINATES, LEVELS AND NORTH DIRECTION SHOULD BE CHECKED BEFORE EXECUTION OF THE WORK
  - GRADE OF CONC. SHALL BE AS FOLLOWS
    - FOR RCC WORK-M30.
    - FOR PCC WORK-M10
  - CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
 

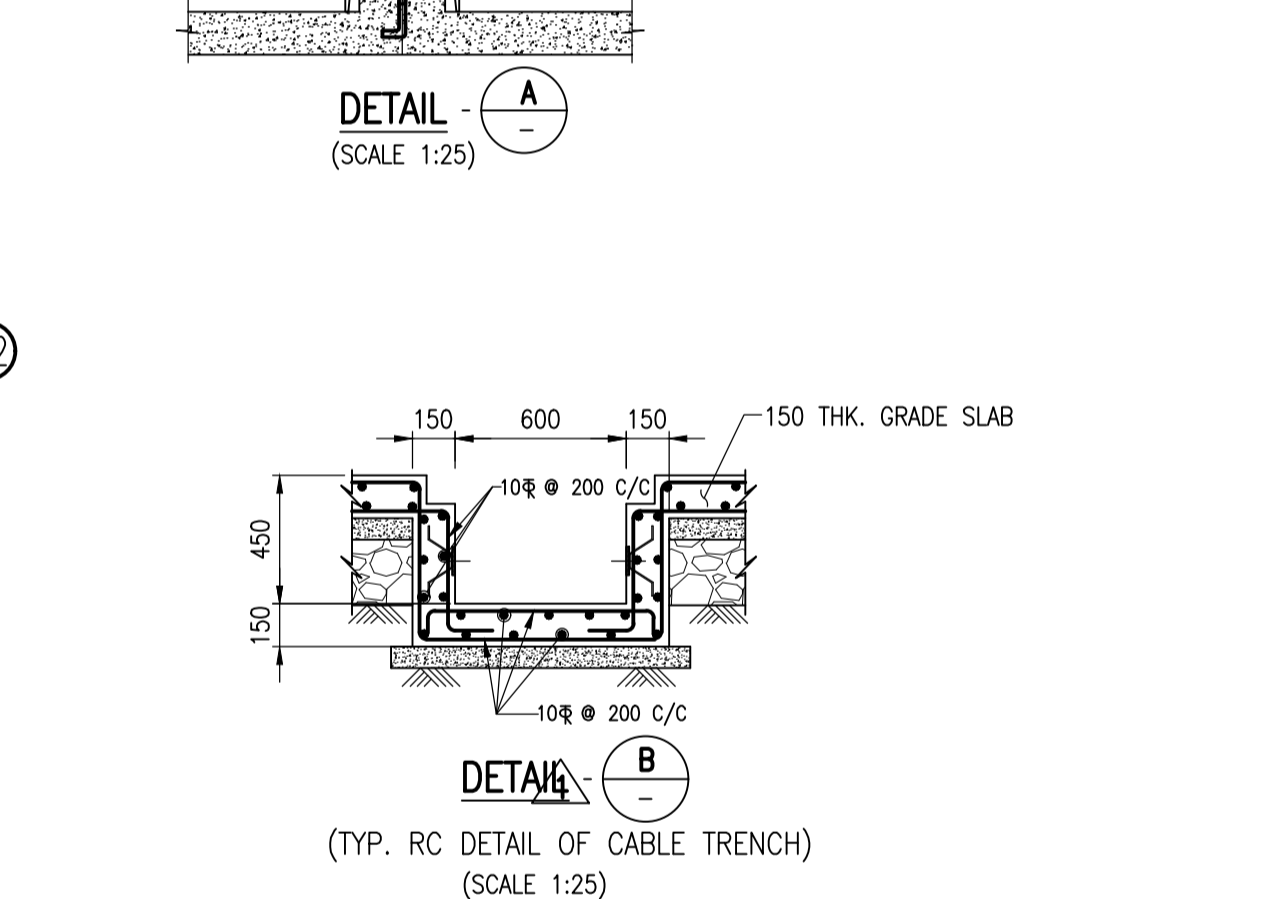
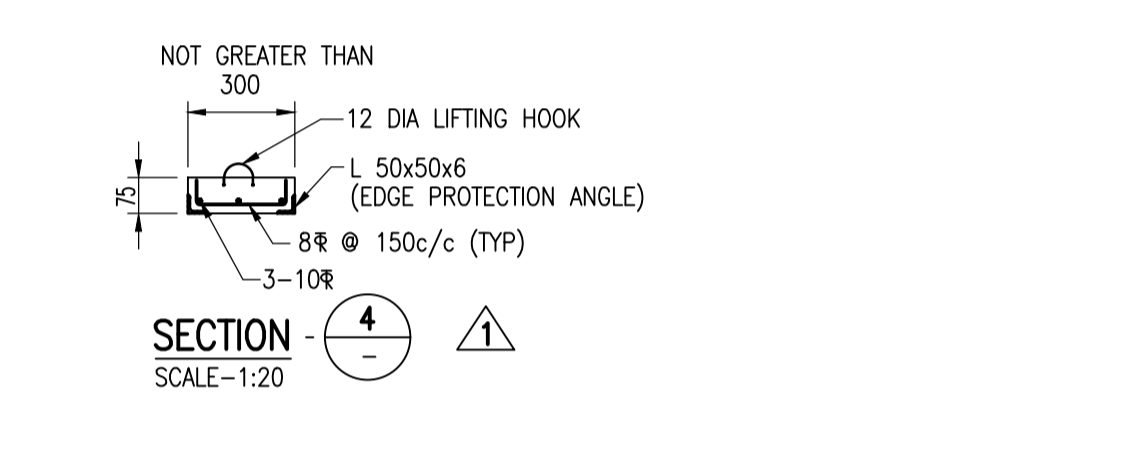
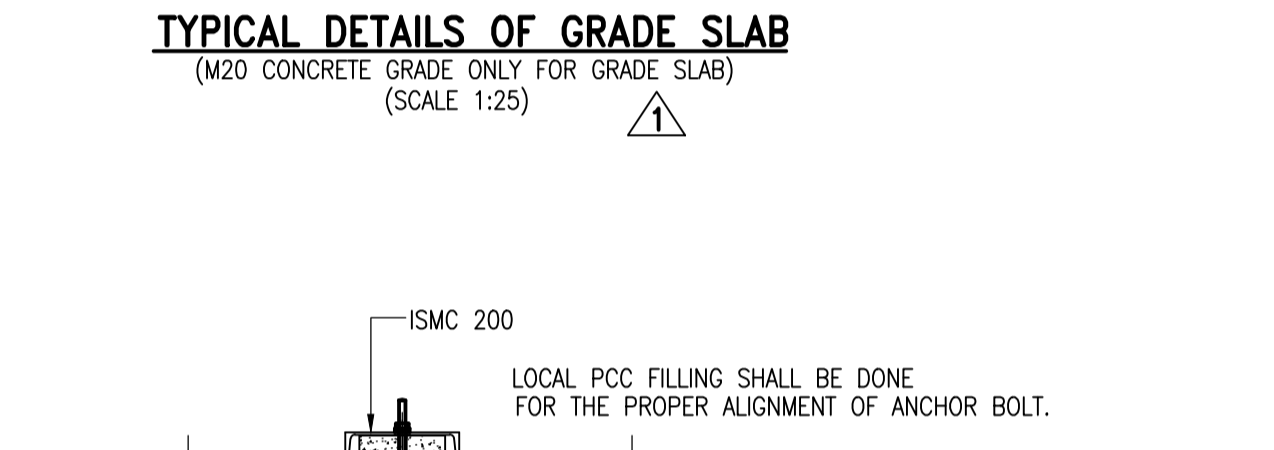
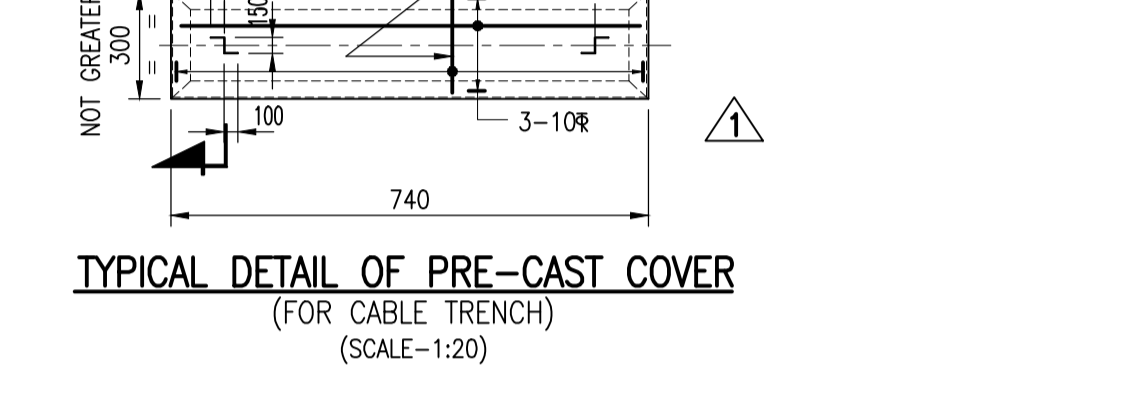
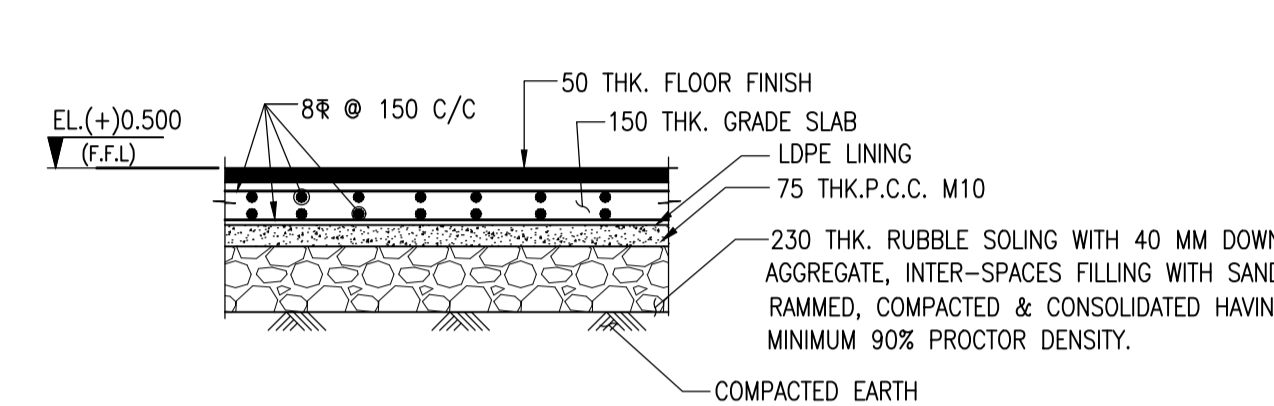
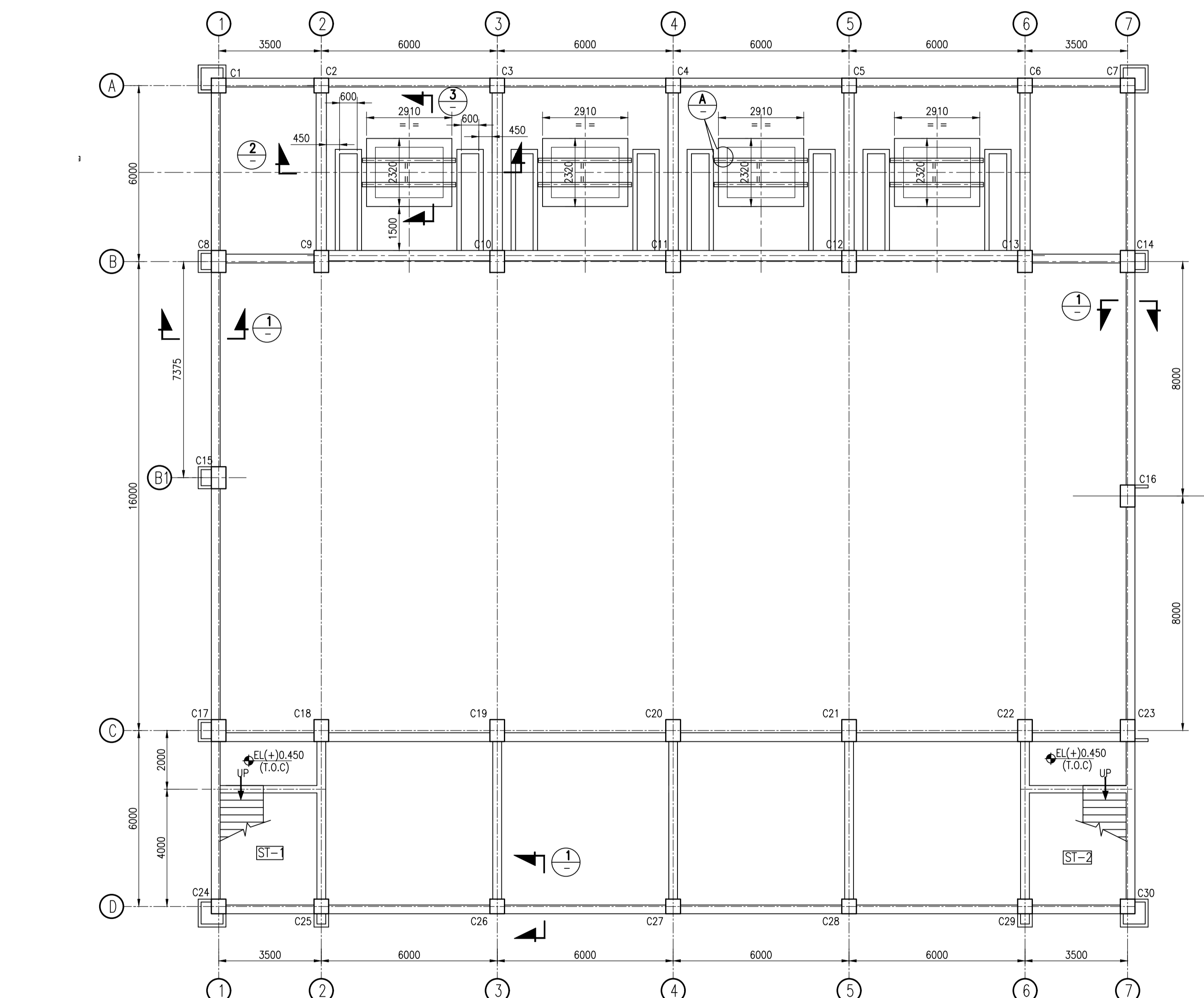
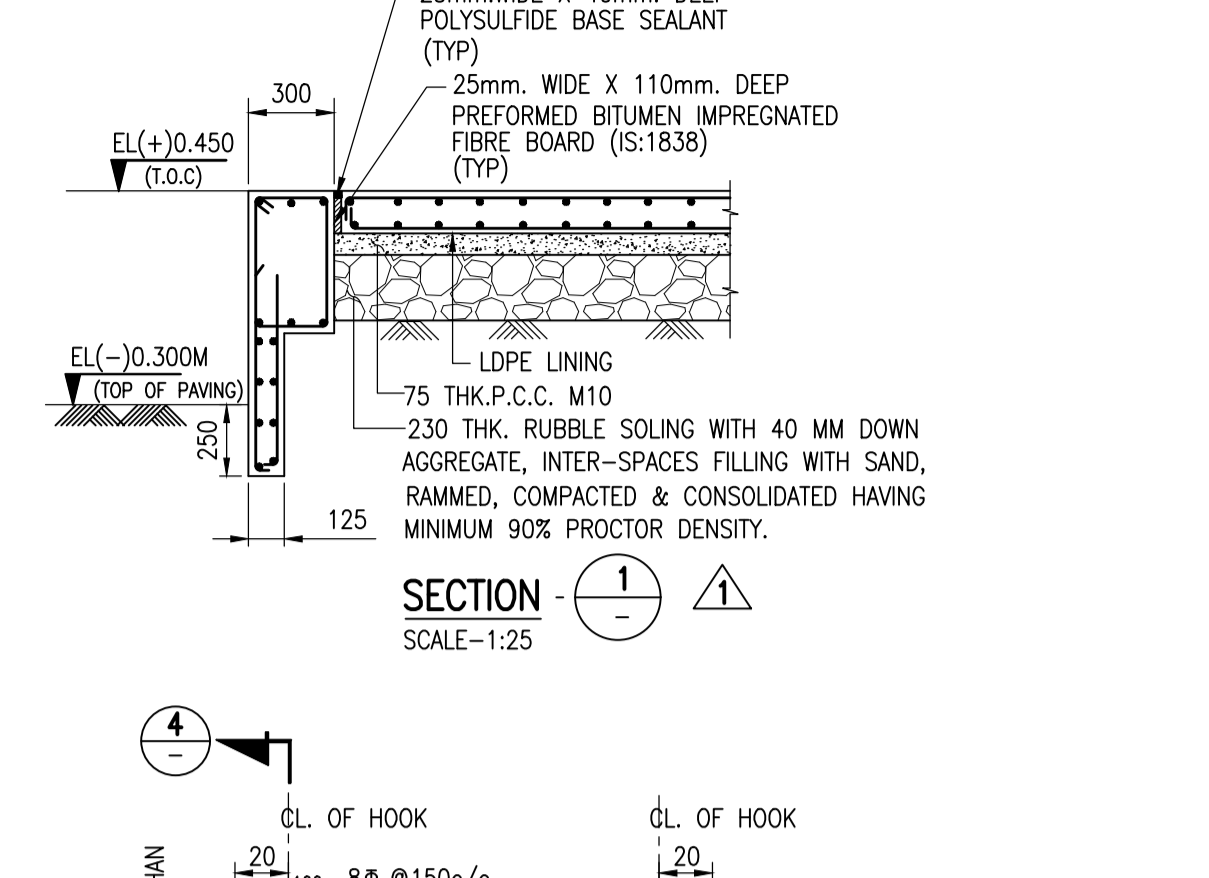
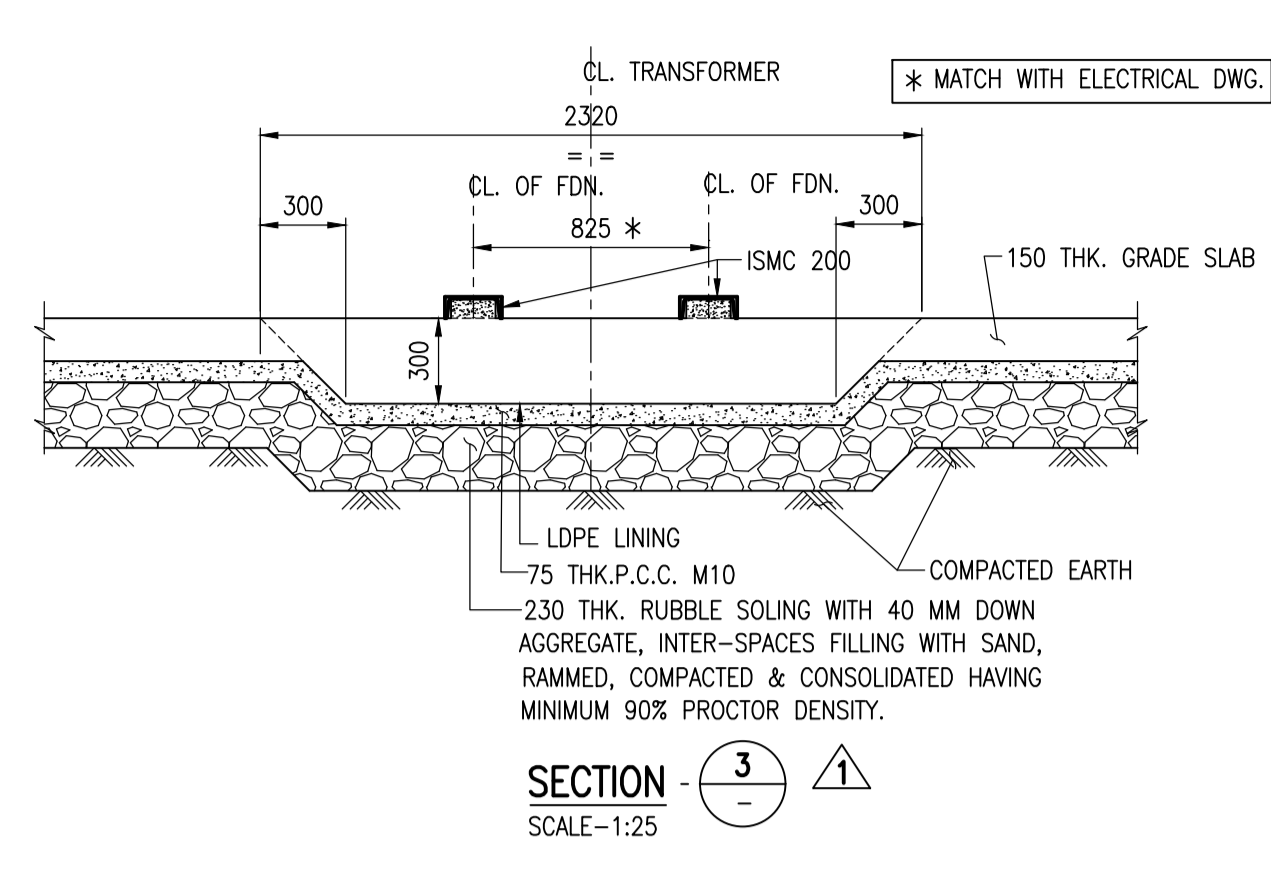
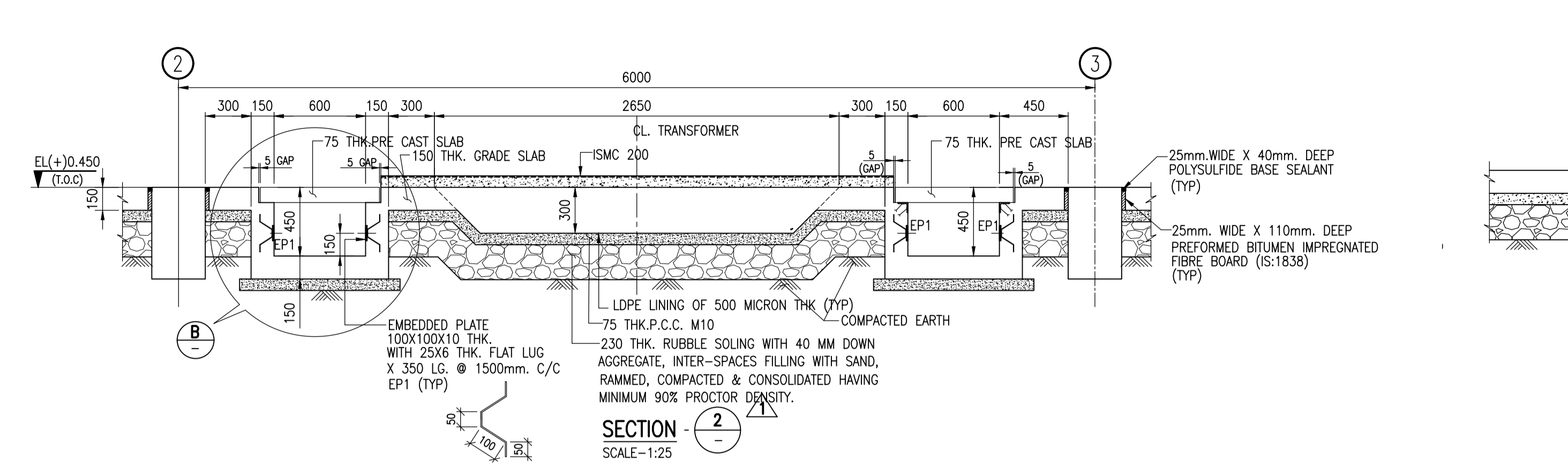
	TOP	BOTTOM	SIDE
FOUNDATION	50	50	50
COLUMN	45	-	45
  - GRADE OF REINFORCEMENT STEEL - Fe500 CONFORMING TO IS : 1786.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCH. & ELEC. DRAWINGS
  - NET SAFE BEARING CAPACITY AT A DEPTH OF 2.0M FROM TOP OF PAVING CONSIDERED AS 5.0T/SQ.M
  - AN ADDITIONAL DEPTH OF 600MM BELOW BOTTOM OF FOUNDATION SHALL BE EXCAVATED, THE FILLING OF WHICH SHALL BE DONE IN LAYERS NOT EXCEEDING 150 MM, WATERED, RAMMED AND COMPACTED TO ACHIEVE A MAXIMUM DRY DENSITY OF NOT LESS THAN 95% (MODIFIED PROCTOR) BY MECHANICAL MEANS AT OPTIMUM MOISTURE CONTENT. IF EXCESS EXCAVATION IS OBSERVED AT SITE BELOW THE DESIRED LEVEL, THE SAME SHALL BE FILLED UP BY PCC (1:4:8) UP TO THE DESIRED LEVEL.
- REF DWGS:**
- 18A08-DWG-E-0401 - ELECTRICAL DWG.
  - 18A08-DWG-A-0002 TO 0006 - ARCHITECTURAL DWG.
  - 18A08-DWG-M-0001 TO 0007 - MECHANICAL DWG. (FIRE DETECTION AND PROTECTION)
  - 18A08-DWG-C-0001 TO 0005 & 0007 - CIVIL & STRUCTURAL DWG.
  - 18A08-03-DWG-VA-001 - HVAC LAYOUT
  - 18A08-03-DWG-VA-002 - HVAC POWER DISTRIBUTION SCHEME.

**ISSUED FOR CONSTRUCTION**

<b>IFFCO</b> PARADEEP	<b>OWNER:</b> IFFCO PARADEEP												
<b>PROJECT:</b> IFFCO PARADEEP AFBC BOILER CONTROL ROOM													
<b>TITLE:</b> LAYOUT & DETAILS OF FOUNDATION FOR CONNECTING PLATFORM BETWEEN CONTROL BUILDING & EXISTING BOILER BUILDING													
<b>DEVELOPMENT CONSULTANTS PVT LTD.</b> CONSULTING ENGINEERS KOLKATA • MUMBAI • CHENNAI • NEW DELHI	<table border="1"> <tr> <td>PREPARED</td> <td>ASHM</td> <td>JOB NO.</td> <td>18A08</td> </tr> <tr> <td>CHECKED</td> <td>RM</td> <td>SCALE</td> <td>AS NOTED</td> </tr> <tr> <td>APPROVED</td> <td>AR</td> <td>DATE</td> <td>15.03.2019</td> </tr> </table>	PREPARED	ASHM	JOB NO.	18A08	CHECKED	RM	SCALE	AS NOTED	APPROVED	AR	DATE	15.03.2019
PREPARED	ASHM	JOB NO.	18A08										
CHECKED	RM	SCALE	AS NOTED										
APPROVED	AR	DATE	15.03.2019										
<table border="1"> <tr> <td>REVISED</td> <td>DATE</td> <td>DESCRIPTION</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		REVISED	DATE	DESCRIPTION									
REVISED	DATE	DESCRIPTION											
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DWG. NO.	18A08-DWG-C-0006												
REV	0												
SHEET	2												



APPROV.	MECH.	INST.	ELEC.	STR.	ARCH.	NATURE OF REVISION & DESCRIPTION	CHECKED	DRAWN	REV.	DATE



- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETRE AND LEVELS IN METERS UNO.
  - ALL CO-ORDINATES, LEVELS AND NORTH DIRECTION SHOULD BE CHECKED BEFORE EXECUTION OF THE WORK.
  - GRADE OF CONC. SHALL BE AS FOLLOWS
    - a. FOR RCC WORK-M25 (FOR GRADE SLAB).
    - b. FOR PCC WORK-M10.
  - CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
 

	TOP	BOTTOM	SIDE
COLUMN	45	45	45
GRADE BEAM	45	45	45
  - GRADE OF REINFORCEMENT STEEL - Fe500 CONFORMING TO IS : 1786.
  - MINIMUM CRUSHING STRENGTH OF NON SHRINK GROUT WILL BE 30N/mm<sup>2</sup>
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCH. & ELEC. DRAWINGS

- REF DWGS:**
- 18A08-DWG-E-0401 - ELECTRICAL DWG. 45
  - 18A08-DWG-A-0002 TO 0006 - ARCHITECTURAL DWG.
  - 18A08-DWG-M-0001 TO 0007 - MECHANICAL DWG. (FIRE DETECTION AND PROTECTION)
  - 18A08-DWG-C-0001 TO 0006 - CIVIL & STRUCTURAL DWG.
  - 18A08-03-DWG-VA-001 - HVAC LAYOUT
  - 18A08-03-DWG-VA-002 - HVAC POWER DISTRIBUTION SCHEME.

**ISSUED FOR CONSTRUCTION**

**SPECIAL NOTES:-**

- LEVELS, DIMENSIONS AND ARRANGEMENT SHOWN IN THIS DRAWING TO BE CHECKED AND CONFIRMED (VERIFIED) BY MECHANICAL & ELECTRICAL DEPARTMENT, CONSIDERING FUNCTIONAL REQUIREMENTS.
- PROVISION OF INSERT PLATES, CUT-OUT, PIPE SLEEVES ETC. TO BE CONSIDERED BEFORE CASTING AS PER REQUIREMENTS.

<b>IFFCO</b> PARADEEP	<b>OWNER:</b> IFFCO PARADEEP
<b>PROJECT:</b> IFFCO PARADEEP AFBC BOILER CONTROL ROOM	
<b>TITLE:</b> CONTROL BUILDING DETAILS OF GRADE SLAB	
<b>DEVELOPMENT CONSULTANTS PVT LTD.</b> CONSULTING ENGINEERS KOLKATA • MUMBAI • CHENNAI • NEW DELHI	
<b>PREPARED</b> ASHIS	<b>JOB NO.</b> 18A08
<b>CHECKED</b> NC	<b>SCALE</b> AS NOTED
<b>APPROVED</b> AR	<b>DATE</b> 22.02.2019
<b>DWG. NO.</b> 18A08-DWG-C-0007	<b>REV 1</b> 1 SHEET OF

APPROV.	MECH.	INST.	ELEC.	STR.	ARCH.	NATURE OF REVISION & DESCRIPTION	CHECKED	DRAWN	REV.	DATE	RELEASE STATUS	DATE	SIGNATURE
						REVISED AS MKD.	NC	ASHIS	1	07.11.19	FOR CONSTRUCTION	23.09.19	AR