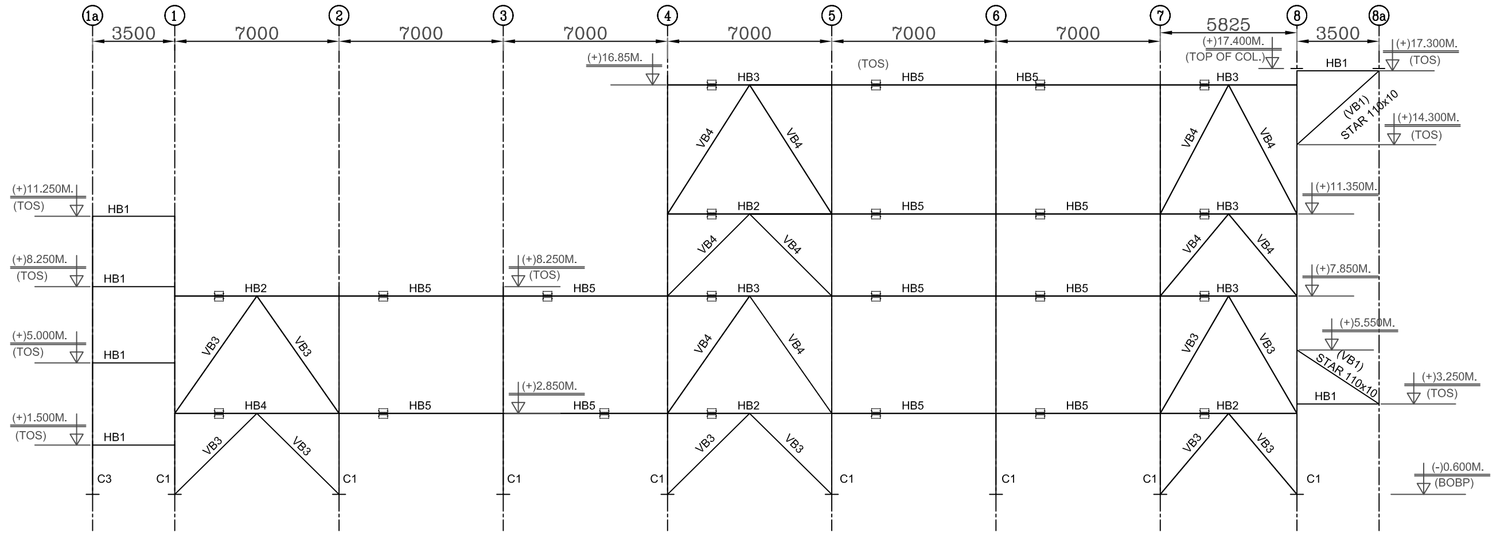
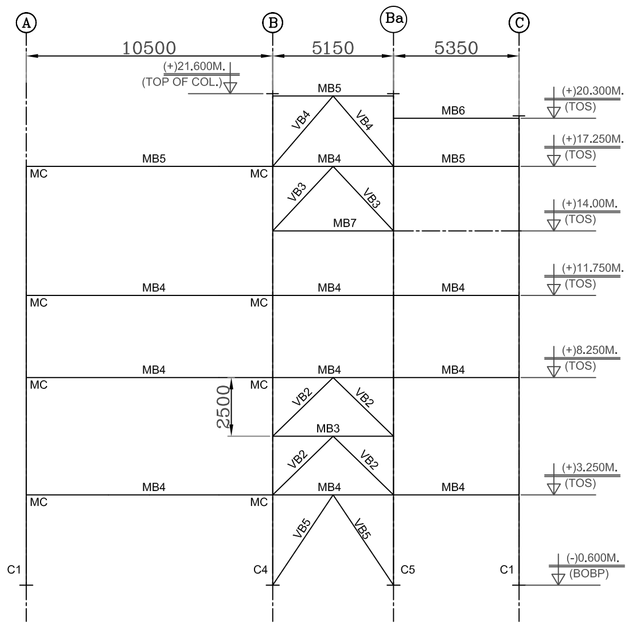


ELEVATION GRID–A



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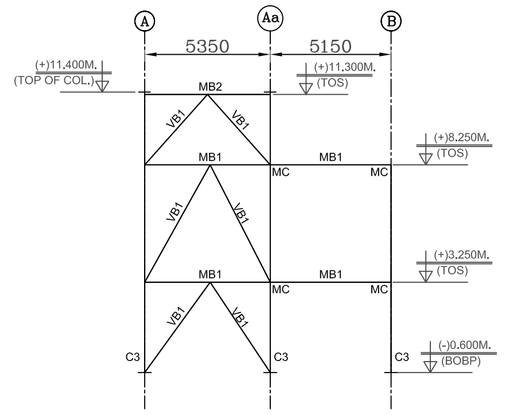

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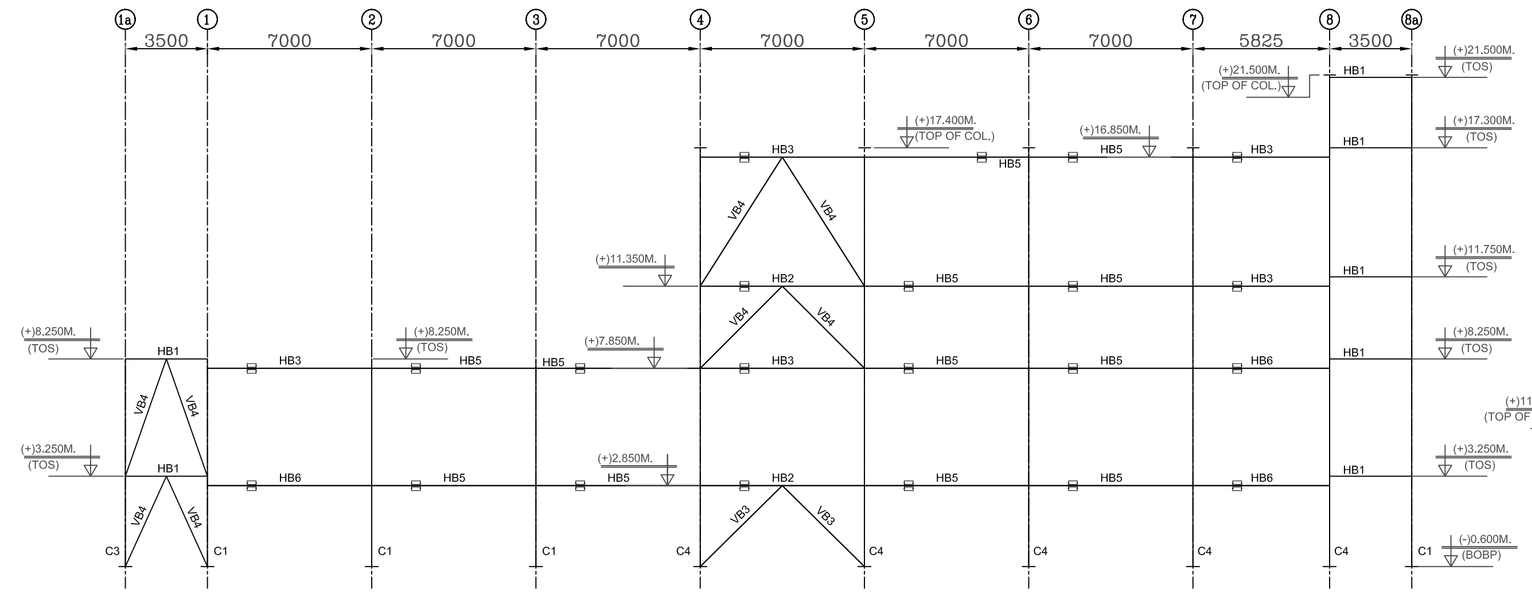

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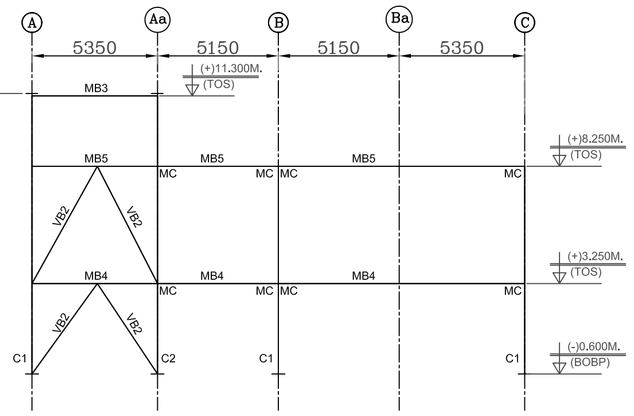

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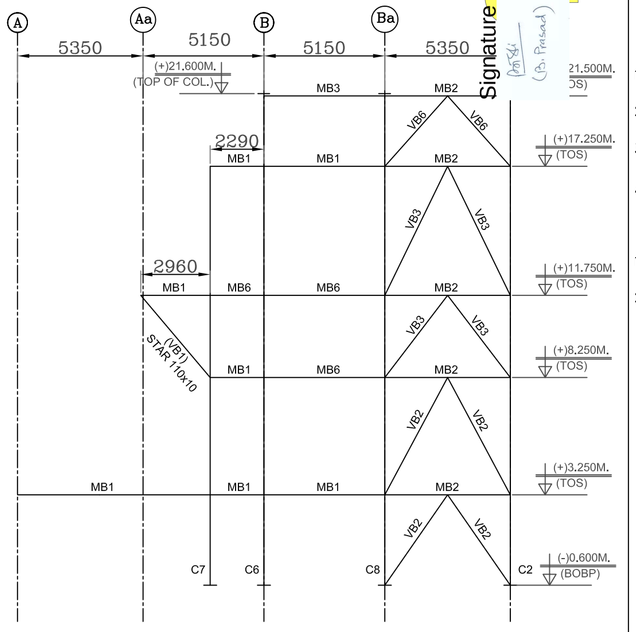

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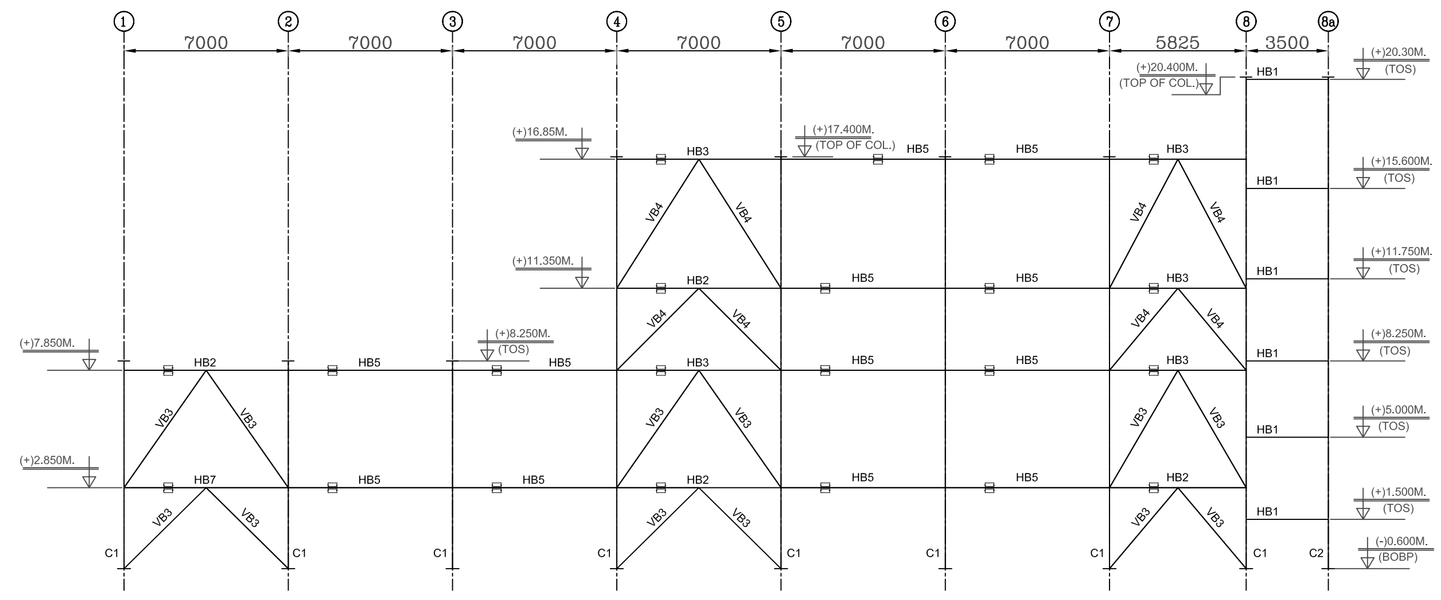

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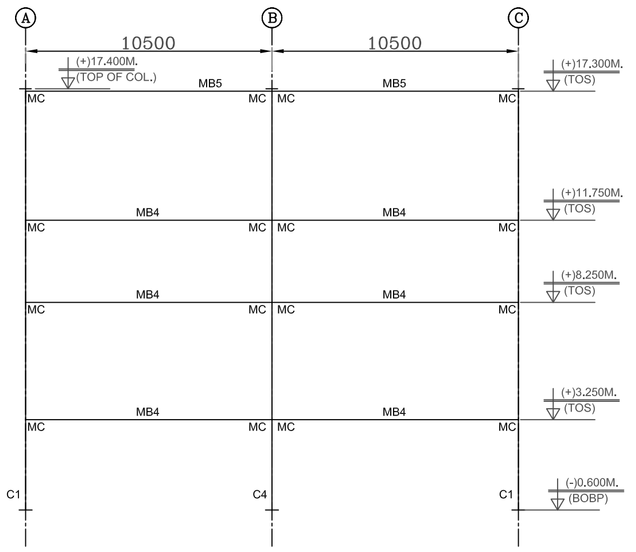

ELEVATION GRID–4

NOTES:–

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS AND CONDITIONS, TECHNICAL SPECIFICATIONS AND SCHEDULE OF ITEMS.
2. ALL DIMENSIONS ARE IN MM & ELEVATIONS IN METERS UNLESS STATED OTHERWISE.
3. ALL ELEVATIONS ARE REFERRED TO THE FINISHED FLOOR LEVEL OF POWER HOUSE BUILDING AS EL. 0.00 M WHICH CORRESPONDS TO RL(+) 375.50 M.
4. FOR OTHER NOTES AND STD. DETAILS REF. DRG. PE-DG-434-600-C002 (NTPC DRG NO. 9585-001-315-PVC-C-0089A)
5. NO DIMENSIONS FROM THIS DRAWING ARE TO BE SCALED OFF AND ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
6. CHECK ALL DIMENSIONS, CO-ORDINATES & ELEVATIONS IMMEDIATELY. REPORT ANY DISCREPANCIES CONFLICTS OR ERROR FOR CLARIFICATION PRIOR TO COMMENCING WORK.
7. THIS DRAWING SHALL BE READ IN CONJUNCTIONS WITH TECHNICAL SPECIFICATION FOR CIVIL & STRUCTURAL AND ALL REFERENCE DRAWINGS.
8. BOTTOM OF BASE PLATE CONSIDERED EL(–)0.600M.

ENGINEERING REFERENCE DRAWINGS :–

1. PE-DG-434-100-M001 – PLOT PLAN (9585-001-999-POC-F-001)
2. PE-DG-434-100-M002 – MAIN EQUIPMENT PLANT LAYOUT. (9585-001-999-POM-F-001)
3. PE-DG-434-100-E008 – ELECTRICAL EQUIPMENT & CABLE LAYOUT IN ESP CUM FGD CONTROL ROOM BUILDING (9585-001-200-PVE-F-122)

ARCHITECTURAL DRAWINGS :–

1. PE-DG-434-619-C001-ESP FOUNDATION-UNIT 1 & 3-ARCHITECTURAL PLANS (9585-001-315-PVC-C-1137)
2. PE-DG-434-619-C002-ESP FOUNDATION-UNIT 1 & 3-ARCHITECTURAL PLANS (9585-001-315-PVC-C-1138)
3. PE-DG-434-619-C003-ESP FOUNDATION-UNIT 1 & 3-ARCHITECTURAL ELEVATIONS (9585-001-315-PVC-C-1139)
4. PE-DG-434-619-C003-ESP FOUNDATION-UNIT 1 & 3-ARCHITECTURAL ELEVATIONS (9585-001-315-PVC-C-1139)

ENGINEERING DRAWINGS :–

1. PE-DG-434-619-C007-ESP CONTROL BUILDING--GA & RC DETAIL OF FOUNDATION,PEDESTAL & PLINTH BEAM(UNIT–1 & 3) (9585-001-315-PVC-C-1121)
2. PE-DG-434-619-C008-ESP FOUNDATION-UNIT 1 & 3-LAYOUT AND DETAILS OF BASE PLATE. (9585-001-315-PVC-C-1122)

LEGENDS.:–

℄	– CENTER LINE	EL(+)X.XXX	– LEVEL TAG
EL	– ELEVATION	UNO	– UNLESS NOTED OTHERWISE
FFL	– FINISHED FLOOR LEVEL	BOBP	– BOTTOM OF BASE PLATE
TYP	– TYPICAL	TOBP	– TOP OF BASE PLATE
TOS	– TOP OF STEEL		
TOC	– TOP OF CONCRETE		

Signature Not Verified
Digitally signed by Prasad Jadhav
Date: 2019.06.22 12:22:51 IST
Reason: CAT
Location: NTPCEOC

SCHEDULE OF HORIZONTAL TIE BEAM

HB1	ISMB-450	E250	
HB2	STAR 150x12	E250	
HB3	STAR 130x12	E250	
HB4	STAR 200x16	E250	
HB5	STAR 90x8	E250	
HB6	STAR 110x10	E250	
HB7	STAR 200x16	E250	

SCHEDULE OF VERTICAL TIE BEAM

VB1	STAR 110x10	E250	
VB2	STAR 200x16	E250	
VB3	STAR 150x12	E250	
VB4	STAR 130x12	E250	
VB5	STAR 200x20	E250	
VB6	STAR 90x8	E250	

SCHEDULE OF MAIN BEAM

MB1		ISMB-450			E250
MB2		PLT. GIRDER	D-650	FL.PL. - 300x25	WEB.PL. - 25 THK. E350
MB3		NPB - 600x220x122.45			E250
MB4		PLT. GIRDER	D-700	FL.PL. - 300x25	WEB.PL. - 25 THK. E350
MB5		PLT. GIRDER	D-650	FL.PL. - 300x25	WEB.PL. - 25 THK. E350
MB6		ISMB-500			E250
MB7		ISMB-350			E250

SCHEDULE OF COLUMNS

C1	FL. GIRDER	PLT. GIRDER	D-650	FL.PL. - 350x25	WEB.PL. - 25 THK. E350
C2		PLT. GIRDER	D-500	FL.PL. - 300x25	WEB.PL. - 25 THK. E350
C3		PLT. GIRDER	D-450	FL.PL. - 300x20	WEB.PL. - 16 THK. E250
C4		FROM BOBP TO EL(+)8.250			
		PLT. GIRDER	D-650	FL.PL. - 400x28	WEB.PL. - 28 THK. E350
		FROM EL(+)8.250 TO EL(+)17.250			
		PLT. GIRDER	D-650	FL.PL. - 350x25	WEB.PL. - 25 THK. E350
C5		PLT. GIRDER	D-500	FL.PL. - 350x28	WEB.PL. - 25 THK. E350
C6		PLT. GIRDER	D-650	FL.PL. - 350x25	WEB.PL. - 25 THK. E350
C7		PLT. GIRDER	D-450	FL.PL. - 300x20	WEB.PL. - 16 THK. E250
C8		PLT. GIRDER	D-500	FL.PL. - 350x28	WEB.PL. - 25 THK. E350

SPECIAL NOTE

DRAWINGS / DOCUMENTS ARE BEING SUBMITTED FOR INFORMATION.
BHEL HEREBY CONFIRMS FULL COMPLIANCE TO ALL THE SPECIFIED REQUIREMENTS OF THE CONTRACT SPECIFICATION, WITHOUT ANY DEVIATION, WHATSOEVER. IN CASE DURING THE TENURE OF THE CONTRACT, IT IS OBSERVED/FOUND THAT THE DATA/ INFORMATION IN THE RELEASED DRAWING/DOCUMENT IS NOT MEETING THE CONTRACT SPECIFICATION, BHEL/ITS VENDOR(S) WILL MODIFY/ RECTIFY/REPLACE THE SAME TO MEET THE SPECIFICATION WITHOUT ANY COMMERCIAL IMPLICATION OR ANY TIME EXTENSION TO

BILL OF MATERIALS(FOR ONE UNIT)

SR.	TYPE	QTY.	MT.	REMARK
01	NPB 600x220x122.45	1.941	MT.	E250
02	MB 450	11.012	MT.	E250
03	25 THK.	117.00	MT.	E350
04	28 THK.	20.50	MT.	E350
05	16 THK.	3.670	MT.	E250
06	20 THK.	3.670	MT.	E250
07	MB 500	1.182	MT.	E250
08	STAR 90x8	10.760	MT.	E250
09	STAR 130x12	22.205	MT.	E250
10	STAR 150x12	22.920	MT.	E250
11	STAR 110x10	3.080	MT.	E250
12	STAR 200x16	8.930	MT.	E250
13	STAR 200x20	1.110	MT.	E250
14	ISMB 350	0.200	MT.	E250
	TOTAL=	228.00		MT.

BHEL-[PROJECT ENGINEERING MANAGEMENT(CIVIL)]
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☐ PLANNING ☐ INFORMATION
☐ CONSTRUCTION
STAMP ALL PREVIOUS REVISION AS SUPERSEDED
ISSUED BY
NAME ABHAY KUMAR
SIGNATURE for
DATE 03/06/2019

BHEL-PROJECT ENGINEERING MANAGEMENT(CIVIL)
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☐ PLANNING/INFORMATION
☐ CONSTRUCTION
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ISSUED BY
NAME ABHAY KUMAR
SIGNATURE -Sd-
DATE 14/06/2019

NTPC DWG. NO. 9585-001-315-PVC-C-1123

CUSTOMER: एनटीपीसी NTPC — NTPC LIMITED

3X800MW PATRATU SUPER THERMAL POWER PROJECT

JOB NO. 434
STATUS
DISTRIBUTION

BHARAT HEAVY ELECTRICALS LTD
POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
NOIDA

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DEPT CODE		NAME	SIGN	DATE
C	DRN	JN	-SD-	14.03.19
	DRSN	ANSHU	-SD-	14.03.19
	CHD	ABHAY	-SD-	14.03.19
	APPD	AKS	-SD-	14.03.19

REV.	DATE	ALTD	CHD	APPD

REV.	DATE	ALTD	CHD	APPD
01	14.06.19	AP	AK	AKS

DRG IS REVISED AS PER CUSTOMER'S COMMENTS & MARKED AS ⚠

TITLE: ESP CONTROL BUILDING
STRUCTURAL FRAMING ELEVATION UNIT–1&3

DEPT. SIGN | SCALE 1:100 | DRAWING NO. PE-DG-434-619-C009

SHEET 1 OF 2 | REV. R1

SIZE–A0

COMPUTER R.E NAME:

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NTPC DWG. NO. 9585-001-315-PVC-C-1123

CUSTOMER: NTPC LIMITED

3X800MW PATRATU SUPER THERMAL POWER PROJECT

BHARAT HEAVY ELECTRICALS LTD
POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
NOIDA

DISTRIBUTION
STATUS
JOB NO. 434

REV	DATE	ALTD	CHD	APPD	REV	DATE	ALTD	CHD	APPD

DESN	DRN	CHD	APPD
DATE	14/06/2019	14/06/2019	14/06/2019
SIGN	-SD-	-SD-	-SD-

DESIGNED	DRAWN	CHECKED	APPROVED
ASHOK KUMAR	SANJAY KUMAR	-NA-	-NA-

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SCALE 1:100	SHEET 2 OF 2	REV. NO

SIZE-A0

DRAWING NO. PE-DG-434-619-C009

TITLE: ESP CONTROL BUILDING
STRUCTURAL FRAMING ELEVATION UNIT-2

REV	DESCRIPTION	DATE
0	ISSUED FOR APPROVAL	14/06/2019

BHEL-PROJECT ENGINEERING MANAGEMENT(CIVIL)
THIS DRAWING IS APPROVED / IS RELEASED FOR
☐ COMMENTS /APPROVAL ☐ FABRICATION
☐ PLANNING ☐ INFORMATION
☐ CONSTRUCTION
☐ STAMP ALL PREVIOUS REVISION AS SUPERSEDED
NAME: ASHOK KUMAR
SIGNATURE:
DATE: 14/06/2019

BHEL-PROJECT ENGINEERING MANAGEMENT(CIVIL)
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☑ COMMENTS /APPROVAL
☐ PLANNING/INFORMATION
☐ CONSTRUCTION
☐ STAMP ALL PREVIOUS REVISION AS SUPERSEDED
NAME: ASHOK KUMAR
SIGNATURE: -Sd-
DATE: 14/06/2019

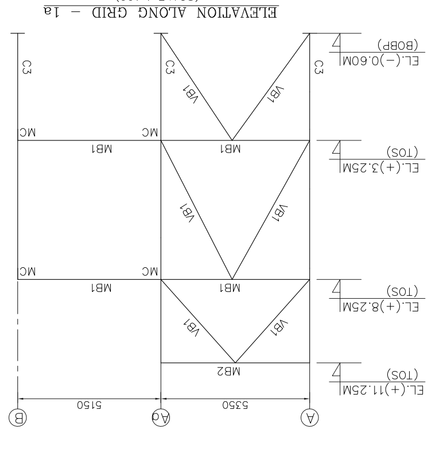
SPECIAL NOTE

DRAWINGS / DOCUMENTS ARE BEING SUBMITTED FOR INFORMATION SHEET. REVIEW CONFORMS FULL COMPLIANCE TO ALL THE SPECIFIED REQUIREMENTS OF THE CONTRACT SPECIFICATION, WITHOUT ANY DEVIATION. WHATSOEVER, IN CASE SHOWN THE SPECIFICATION WITHOUT ANY COMMERCIAL IMPLICATIONS OR ANY TIME EXTENSION TO PVUNL/NTPC IN THIS REGARD.

BILL OF MATERIALS

SR.	TYPE	QTY.	REMARK
01	NPB 600X220X12.45	1941	MT.
02	MB 450	11.012	MT.
03	25 THK.	128.870	MT.
04	28 THK.	23.260	MT.
05	16 THK.	3.670	MT.
06	20 THK.	3.670	MT.
07	MB 500	1.182	MT.
08	STAR 90X8	15.760	MT.
09	STAR 130X12	22.205	MT.
10	STAR 150X12	22.920	MT.
11	STAR 110X10	3.080	MT.
12	STAR 200X16	8.930	MT.
13	STAR 200X20	1.110	MT.
14	ISMB 350	0.250	MT.
TOTAL=		247.860	MT.

ELEVATION ALONG GRID – 1a
(SCALE 1:100)



SCHEDULE OF COLUMNS

C1	PL. GIRDER	PLT. GIRDER	D-650	FLPL – 350X25	WEB.PL – 25 THK.
C2		PLT. GIRDER	D-500	FLPL – 300X25	WEB.PL – 25 THK.
C3		PLT. GIRDER	D-450	FLPL – 300X20	WEB.PL – 16 THK.
C4		PLT. GIRDER	D-650	FLPL – 400X28	WEB.PL – 28 THK.
		FROM EL(+)8.250 TO EL(+)17.250			
		PLT. GIRDER	D-650	FLPL – 350X25	WEB.PL – 25 THK.
		PLT. GIRDER	D-500	FLPL – 350X28	WEB.PL – 25 THK.
C5		PLT. GIRDER	D-500	FLPL – 350X28	WEB.PL – 25 THK.
C6		PLT. GIRDER	D-650	FLPL – 350X25	WEB.PL – 25 THK.
C7		PLT. GIRDER	D-450	FLPL – 300X20	WEB.PL – 16 THK.
C8		PLT. GIRDER	D-500	FLPL – 350X28	WEB.PL – 25 THK.

SCHEDULE OF MAIN BEAM

MB1	ISMB-450				E250
MB2	PLT. GIRDER	D-650	FLPL – 300X25	WEB.PL – 25 THK.	E350
MB3	NPB – 600X220X122.45				E250
MB4	PLT. GIRDER	D-700	FLPL – 300X25	WEB.PL – 25 THK.	E350
MB5	PLT. GIRDER	D-650	FLPL – 300X25	WEB.PL – 25 THK.	E350
MB6	ISMB-500				E250
MB7	ISMB-350				E250

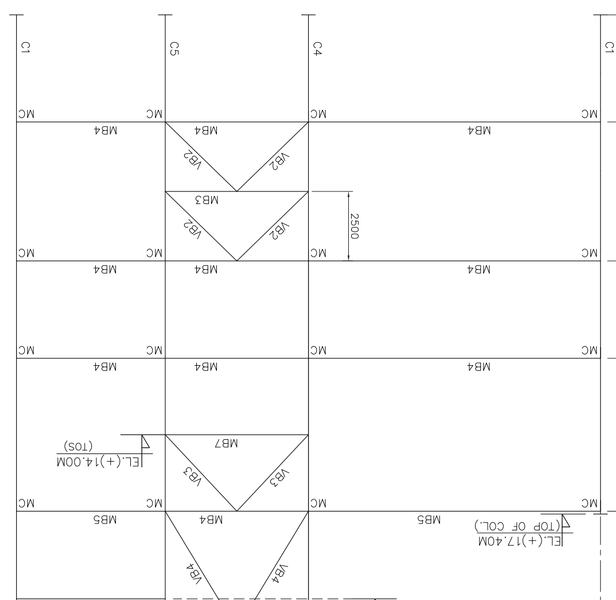
SCHEDULE OF HORIZONTAL TIE BEAM

HB1	ISMB-450	E250
HB2	STAR 150X12	E250
HB3	STAR 130X12	E250
HB4	STAR 200X16	E250
HB5	STAR 90X8	E250
HB6	STAR 110X10	E250
HB7	STAR 200X16	E250

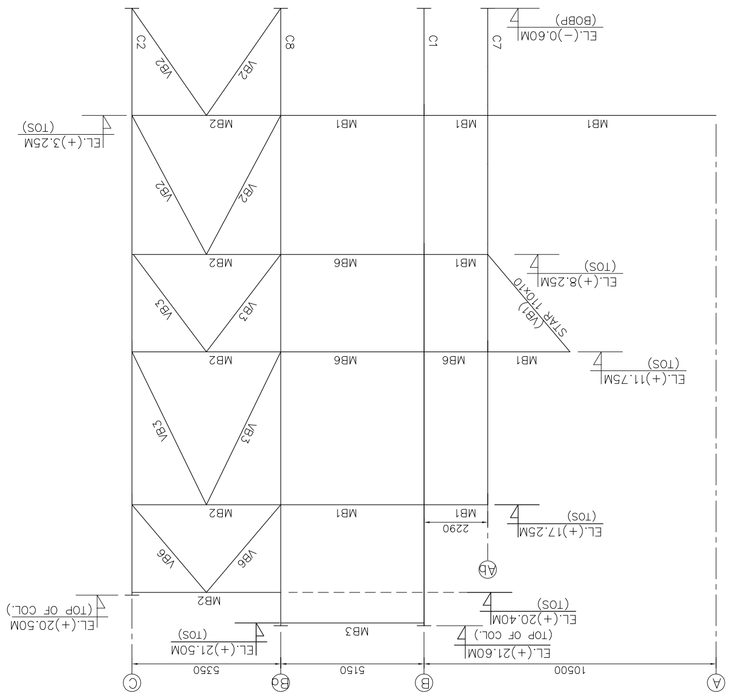
SCHEDULE OF VERTICAL TIE BEAM

VB1	STAR 110X10	E250
VB2	STAR 200X16	E250
VB3	STAR 150X12	E250
VB4	STAR 130X12	E250
VB5	STAR 200X20	E250
VB6	STAR 90X8	E250

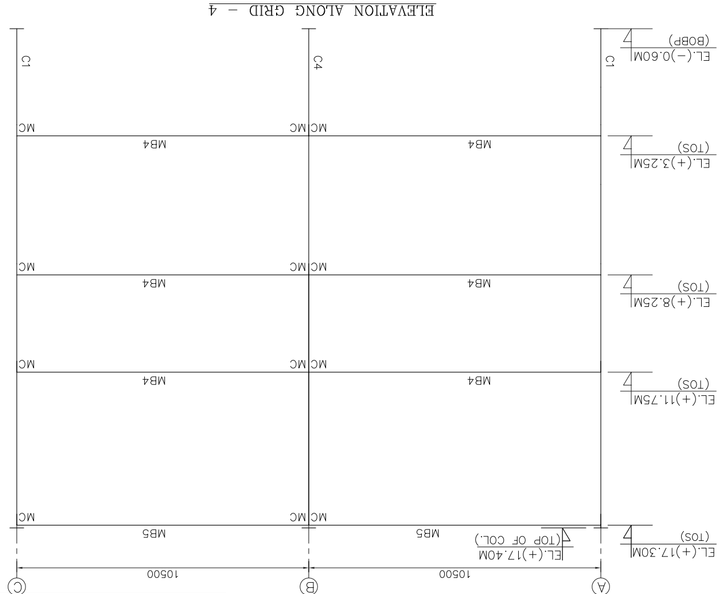
ELEVATION ALONG GRID – 9
(SCALE 1:100)



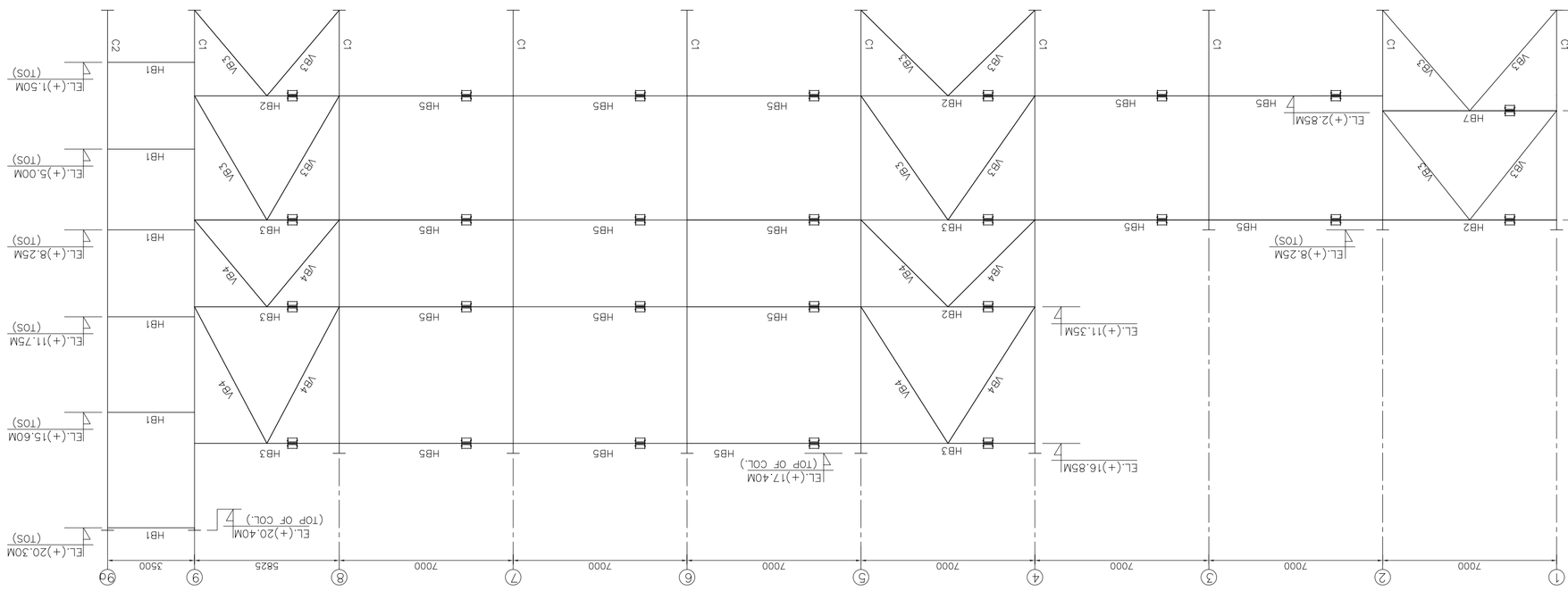
ELEVATION ALONG GRID – 9a
(SCALE 1:100)



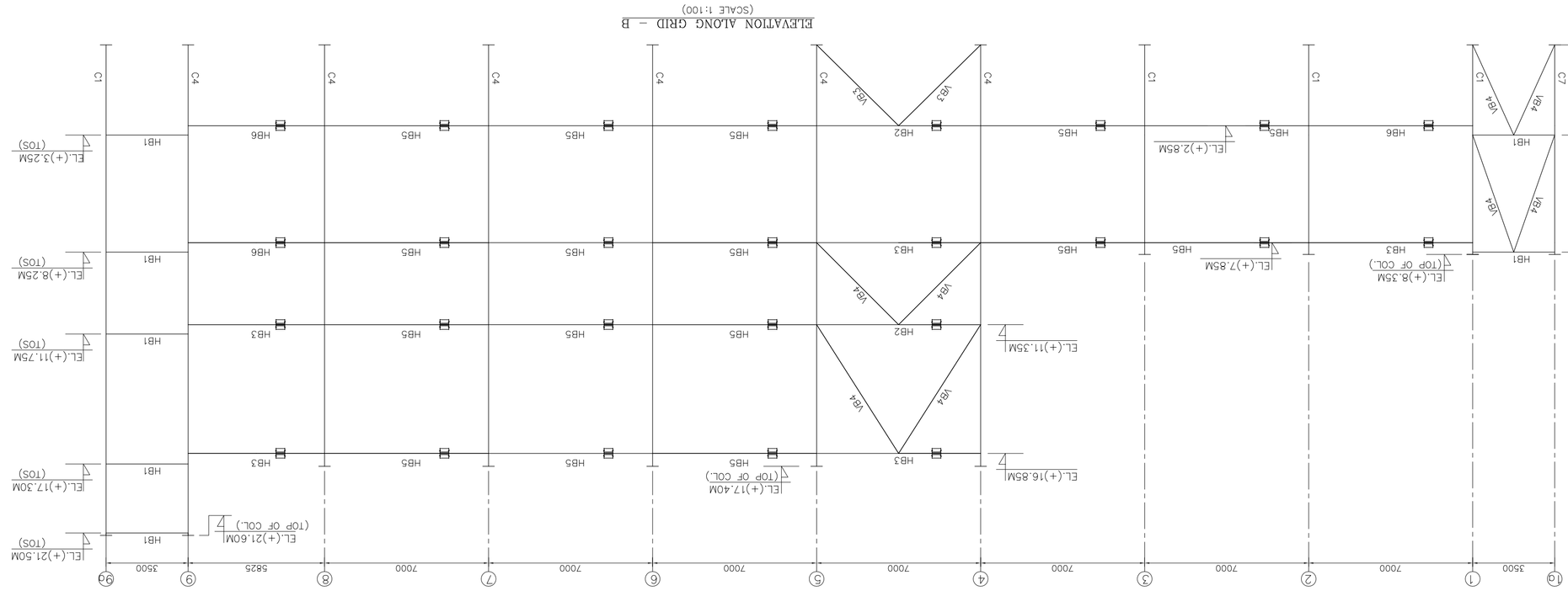
ELEVATION ALONG GRID – 4
(SCALE 1:100)



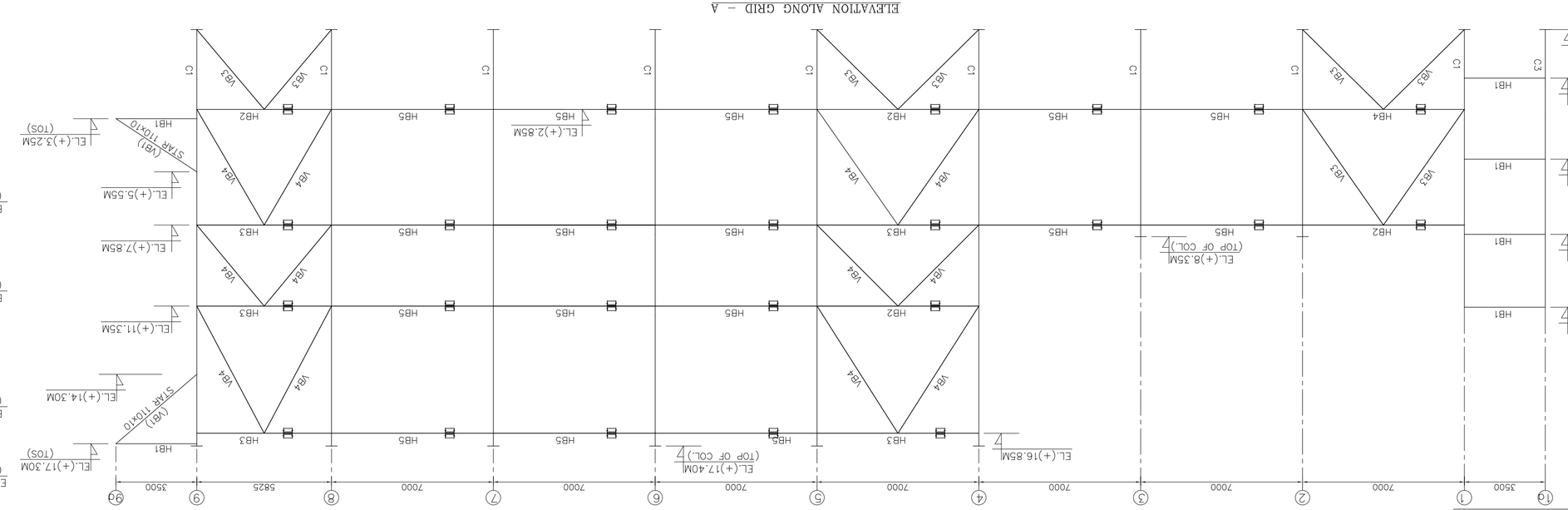
ELEVATION ALONG GRID – C
(SCALE 1:100)



ELEVATION ALONG GRID – B
(SCALE 1:100)



ELEVATION ALONG GRID – A
(SCALE 1:100)



NOTES:–

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS AND CONDITIONS, TECHNICAL SPECIFICATIONS AND SCHEDULE OF ITEMS.
2. ALL DIMENSIONS ARE IN MM & ELEVATIONS IN METERS UNLESS STATED OTHERWISE.
3. ALL ELEVATIONS ARE REFERRED TO THE FINISHED FLOOR LEVEL OF POWER HOUSE BUILDING AS EL. 0.00 M WHICH CORRESPONDS TO RL.(+) 375.50 M.
4. FOR OTHER NOTES AND STD. DETAILS REF. DRG. PE-DG-434-600-C002 (NTPC DRG NO. 9585-001-315-PVC-C-00894)
5. NO DIMENSIONS FROM THIS DRAWING ARE TO BE SCALED OFF AND ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
6. CHECK ALL DIMENSIONS, CO-ORDINATES & ELEVATIONS IMMEDIATELY. REPORT ANY DISCREPANCIES CONFLICTS OR ERROR FOR CLARIFICATION PRIOR TO COMMENCING WORK.
7. THIS DRAWING SHALL BE READ IN CONJUNCTIONS WITH TECHNICAL SPECIFICATION FOR CIVIL & STRUCTURAL AND ALL REFERENCE DRAWINGS.
8. BOTTOM OF BASE PLATE CONSIDERED EL.(–)0.600M.

ENGINEERING REFERENCE DRAWINGS :–

1. PE-DG-434-100-M001 – PLOT PLAN (9585-001-999-P0C-F-001)
2. PE-DG-434-100-M002 – MAIN EQUIPMENT PLANT LAYOUT. (9585-001-999-P0M-F-001)
3. PE-DG-434-100-E008 – ELECTRICAL EQUIPMENT & CABLE LAYOUT IN ESP CUM FGD CONTROL ROOM BUILDING (9585-001-200-PVE-F-122)
4. PE-DG-434-619-C003-ESP FOUNDATION-UNIT 2-ARCHITECTURAL ELEVATIONS (9585-001-315-PVC-C-1139)

ENGINEERING DRAWINGS :–

1. PE-DG-434-619-C001-ESP FOUNDATION-UNIT 1 & 3-LAYOUT AND DETAILS OF BASE PLATE. (9585-001-315-PVC-C-1122)
2. PE-DG-434-619-C008 – ESP FOUNDATION-UNIT 1 & 3-LAYOUT AND DETAILS OF BASE PLATE.
1. PE-DG-434-619-C007 – ESP CONTROL BUILDING-GA & RC DETAIL OF FOUNDATION,PEDESTAL & PLINTH BEAM(UNIT-1 ,2& 3) (9585-001-315-PVC-C-1121)

LEGENDS :–

℄	– CENTER LINE
EL.	– ELEVATION
TYP.	– TYPICAL
FFL	– FINISHED FLOOR LEVEL
TOS	– TOP OF STEEL
TOC	– TOP OF CONCRETE
EL.(+)X.XXX	– LEVEL TAG
UNO	– UNLESS NOTED OTHERWISE
BOBP	– BOTTOM OF BASE PLATE
TOBP	– TOP OF BASE PLATE

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FIRST ANGLE PROJECTION — ALL DIMENSIONS ARE IN MM

CUSTOMER'S DRAWING No. 9585-001-315-PVC-C-1123

DRAWING No. PE-DG-434-619-C009