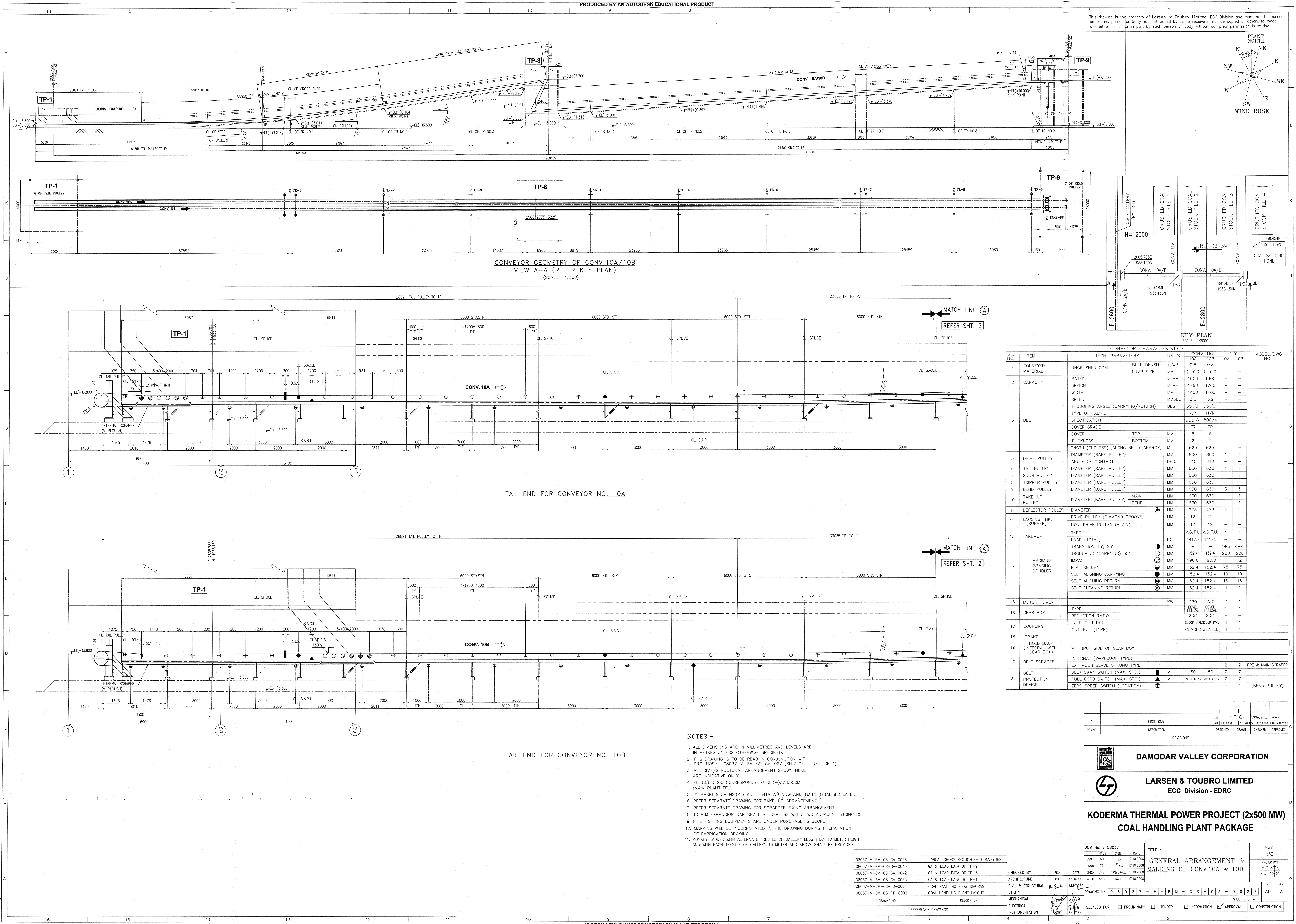




CONVEYOR CHARACTERISTICS									
Sl. No.	ITEM	TECH. PARAMETERS		UNITS	CONV. NO.		QTY.		MODEL/DWG NO.
					10A	10B	10A	10B	
1	CONVEYED MATERIAL	UNCRUSHED COAL	BULK DENSITY LUMP SIZE	T/M ³ MM	0.8 (-)-20	0.8 (-)-20	—	—	
2	CAPACITY	RATED DESIGN		MTPH	1600 1760	1600 1760	—	—	
3	BELT	WIDTH		MM	1400	1400	—	—	
		SPEED		M/SEC.	3.2	3.2	—	—	
		TROUGHING ANGLE (CARRYING/RETURN)		DEG.	35°/0°	35°/0°	—	—	
		TYPE OF FABRIC		N/A	N/A	N/A	—	—	
		SPECIFICATION			800/4	800/4	—	—	
		COVER GRADE			FR	FR	—	—	
		COVER	TOP	MM	5	5	—	—	
		THICKNESS	BOTTOM	MM	2	2	—	—	
		LENGTH (ENDLESS) (ALONG BELT) (APPROX)	M	620	620	—	—		
		5	DRIVE PULLEY	DIAMETER (BARE PULLEY)		MM	800	800	1
		ANGLE OF CONTACT		DEG.	210	210	—	—	
6	TAIL PULLEY	DIAMETER (BARE PULLEY)		MM	630	630	1	1	
7	SNUB PULLEY	DIAMETER (BARE PULLEY)		MM	630	630	1	1	
8	TRIPPER PULLEY	DIAMETER (BARE PULLEY)		MM	630	630	—	—	
9	BEND PULLEY	DIAMETER (BARE PULLEY)		MM	630	630	3	3	
10	TAKE-UP PULLEY	DIAMETER (BARE PULLEY)	MAIN BEND	MM	630	630	1	1	
11	DEFLECTOR ROLLER	DIAMETER	●	MM	630	630	4	4	
		DRIVE PULLEY (DIAMOND GROOVE)	●	MM	273	273	2	2	
12	LAGGING THK. (RUBBER)	NON-DRIVE PULLEY (PLAIN)		MM.	12	12	—	—	
13	TAKE-UP	TYPE			V.G.T.U.	V.G.T.U.	1	1	
		LOAD (TOTAL)		KG.	14175	14175	—	—	
		TRANSITION 15', 25'	●	MM.	—	—	4+3	4+4	
		TROUGHING (CARRYING) 35'	○	MM.	152.4	152.4	208	208	
14	MAXIMUM SPACING OF IDLER	IMPACT	⊙	MM.	190.0	190.0	11	12	
		FLAT RETURN	●	MM.	152.4	152.4	75	75	
		SELF ALIGNING CARRYING	●	MM.	152.4	152.4	19	19	
		SELF ALIGNING RETURN	●	MM.	152.4	152.4	16	16	
		SELF CLEANING RETURN	⊗	MM.	152.4	152.4	1	1	
15	MOTOR POWER			KW.	230	230	1	1	
16	GEAR BOX	TYPE			20:1	20:1	1	1	
		REDUCTION RATIO			20:1	20:1	—	—	
17	COUPLING	IN-PUT (TYPE)			3200 RPM	3200 RPM	1	1	
		OUT-PUT (TYPE)			GEARED	GEARED	1	1	
18	BRAKE								
19	HOLD BACK (INTEGRAL WITH GEAR BOX)	AT INPUT SIDE OF GEAR BOX			—	—	1	1	
		INTERNAL (V-PLOUGH TYPE)			—	—	1	1	
20	BELT SCRAPER	EXT. MULT. BLADE SPRUNG TYPE			—	—	2	2	
		BELT SWAY SWITCH (MAX. SPC.)	■	M.	50	50	7	7	
21	BELT PROTECTION DEVICE	PULL CORD SWITCH (MAX. SPC.)	▲	M.	30 PAIRS	30 PAIRS	7	7	
		ZERO SPEED SWITCH (LOCATION)	■		—	—	1	1	(BEND PULLEY)

A	FIRST ISSUE	↓ AB 17.10.2000	TC TC 17.10.2000	WKS SRG 17.10.2000	WKS ARC 17.10.2000
REV.NO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED

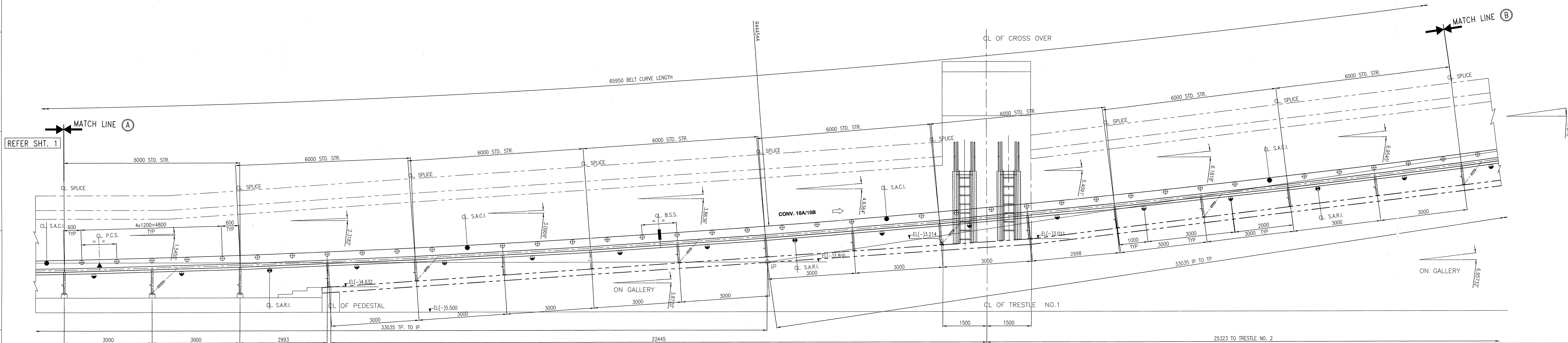
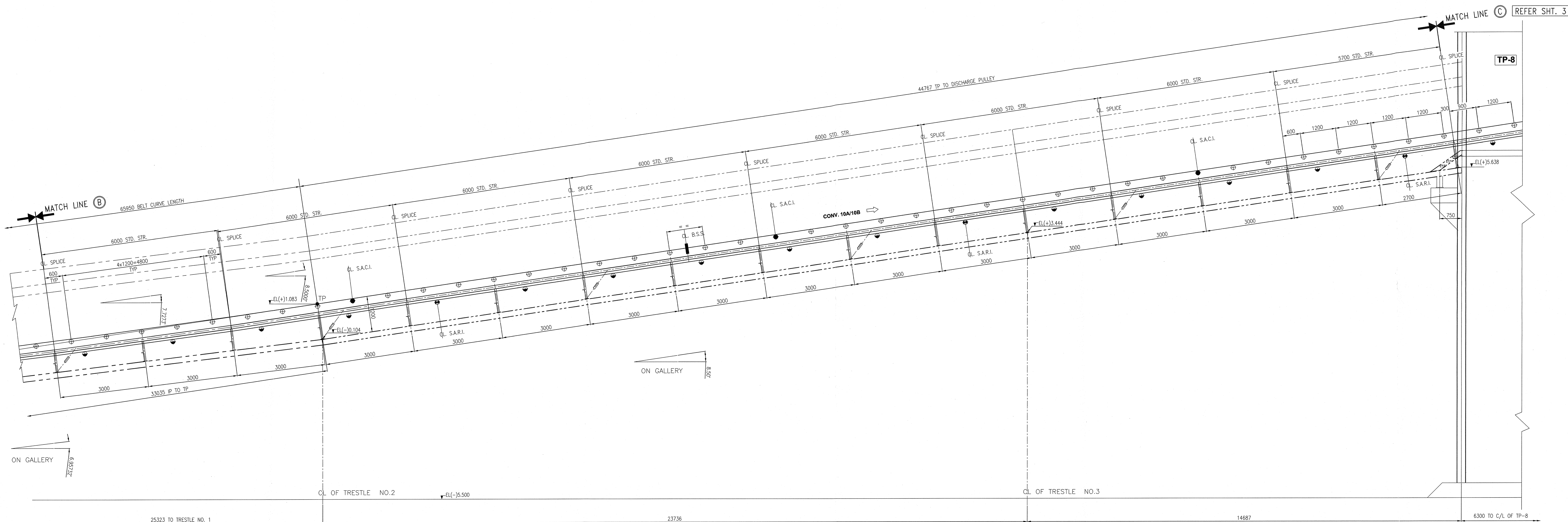
DAMODAR VALLEY CORPORATION



LARSEN & TOUBRO LIMITED
ECC Division - EDRC

**KODERMA THERMAL POWER PROJECT (2x500 MW)
COAL HANDLING PLANT PACKAGE**

JOB No. : OB037				TITLE : GENERAL ARRANGEMENT & MARKING OF CONV.10A & 10B				SCALE 1:50	
DESIGN	NAME	SGN	DATE					PROJECTION 	
ENR	AB	JD	17.10.2008						
CHKD	TC		17.10.2008						
CHPO	SRG	SRG	17.10.2008						
APVD	KRC	SRG	17.10.2008						
DRAWING No. 0 8 0 3 7 - M - 9 M - C S - C A - 0 0 2 7				SIZE A0		REV. A			
RELEASED FOR				☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☒ APPROVAL ☐ CONSTRUCTION		SHEET 1 OF 4			



NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRG. NO. 08037-M-BM-CS-GA-0027 SHT 1 OF 4, 3 OF 4 & 4 OF 4

REVNO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
A	FIRST ISSUE	TC	TC	TC	TC

REVISIONS

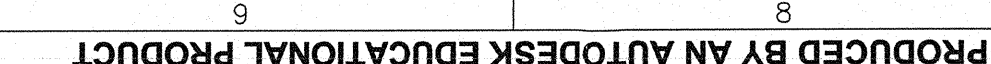


DAMODAR VALLEY CORPORATION

LARSEN & TOUBRO LIMITED
ECC Division - EDRCKODERMA THERMAL POWER PROJECT (2x500 MW)
COAL HANDLING PLANT PACKAGE

JOB No. : 08037	TITLE :	SCALE 1:50
DESIGNED BY TC	GENERAL ARRANGEMENT & MARKING OF CONV.10A & 10B	PRODUCTION
DRAWN BY TC		
CHECKED BY TC		
APPROVED BY TC		

DRAWING NO.	DESCRIPTION	CHECKED BY	DATE	SCALE	REV.
		ARCHITECTURE	17.10.2008	1:50	A
		CIVIL & STRUCTURAL	17.10.2008		
		UTILITY	17.10.2008		
		MECHANICAL	17.10.2008		
		ELECTRICAL	17.10.2008		
		INSTRUMENTATION	17.10.2008		



1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS OTHERWISE SPECIFIED.

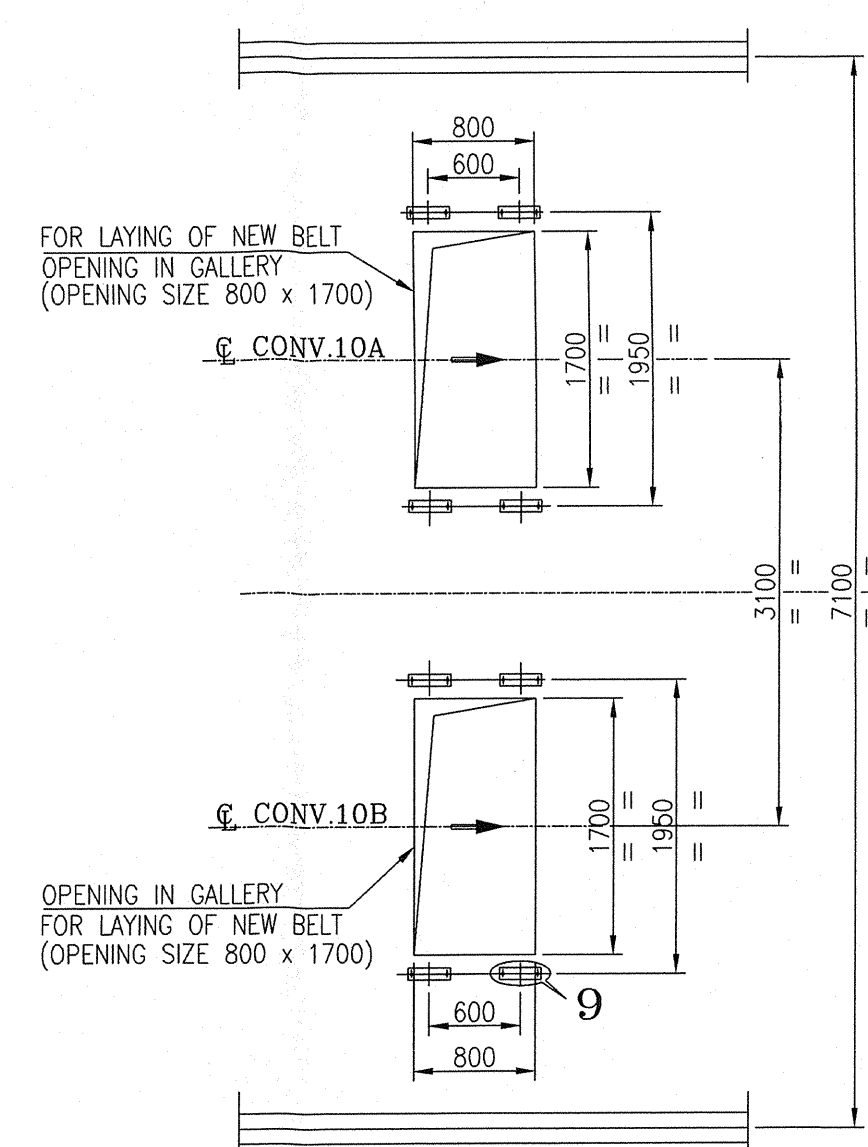
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRG. NO. 08037-M-BM-CS-GA-0027 SHT 1 OF 4, 2 OF 4 & 4 OF 4

		CHECKED BY		SIGN	DATE	DMN	TL	17.10.2008	MARKING OF CONV.10A & 10B			
		ARCHITECTURE		XXX	XX.XX.XX	APPO	AKC	17.10.2008			SIZE A RE A	
		CIVIL & STRUCTURAL		17.10	17.10							
		UTILITY				DRAWING No.		0 8 0 3 7 - M - B M - C S - G A - 0 0 2 7			SHEET 3 OF 4	
DRAWING NO.		DESCRIPTION				MECHANICAL						
REFERENCE DRAWINGS		ELECTRICAL				RELEASED FOR		☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☒ APPROVAL ☐ CONSTRUCTION				
		INSTRUMENTATION										

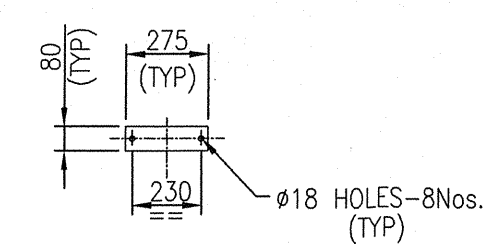
LARSEN & TOUBRO LIMITED
ECC Division - EDRC

JOB No. : 08037				TITLE : GENERAL ARRANGEMENT & MARKING OF CONV.10A & 10B	SCALE 1:50
	NAME	SIGN	DATE		PROJECTION 
DSGN	AB	<i>AB</i>	17.10.2008		
DRWN	TC	<i>TC</i>	17.10.2008		
CHKD	SRG	<i>SRG</i>	17.10.2008		

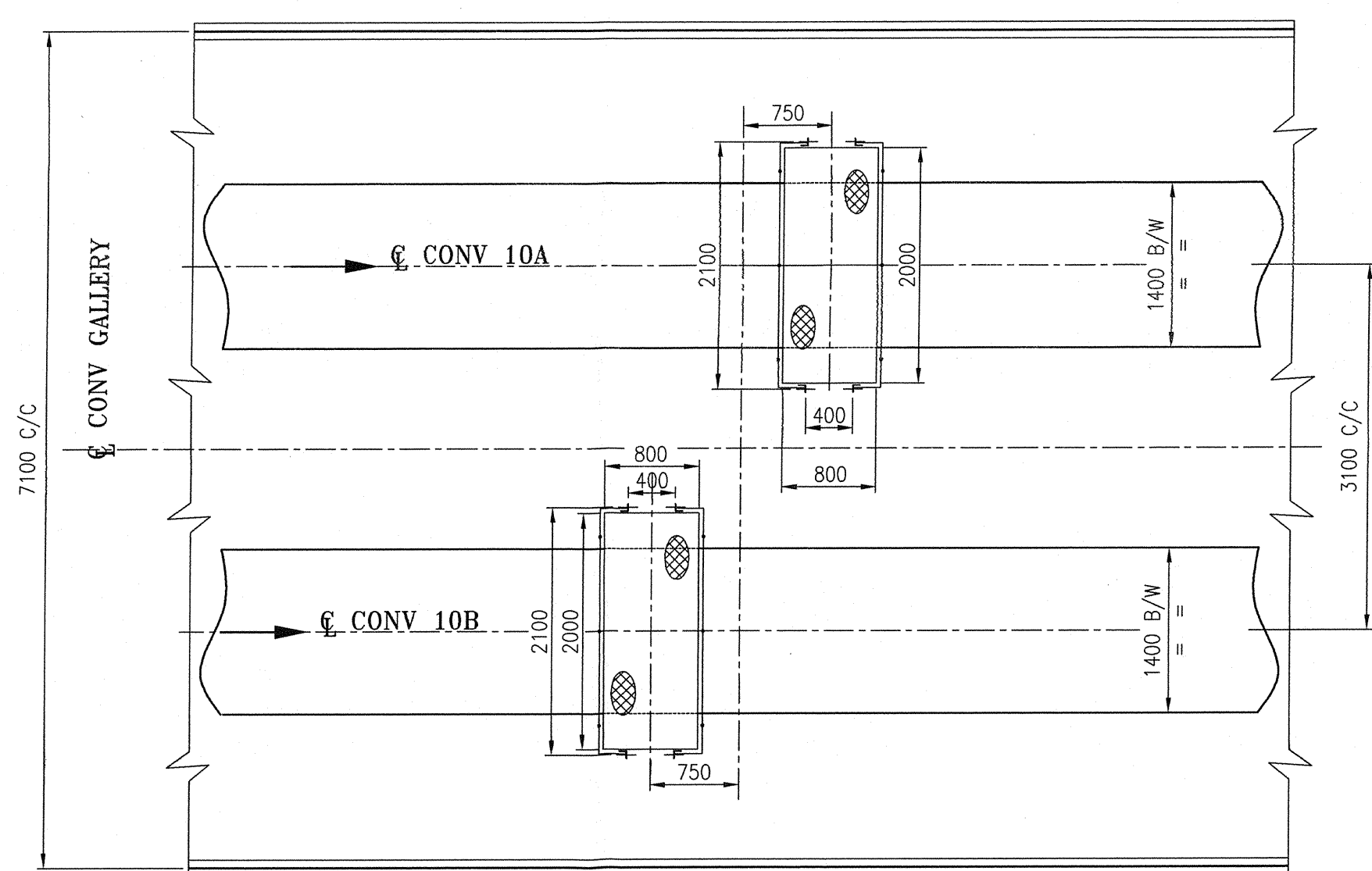
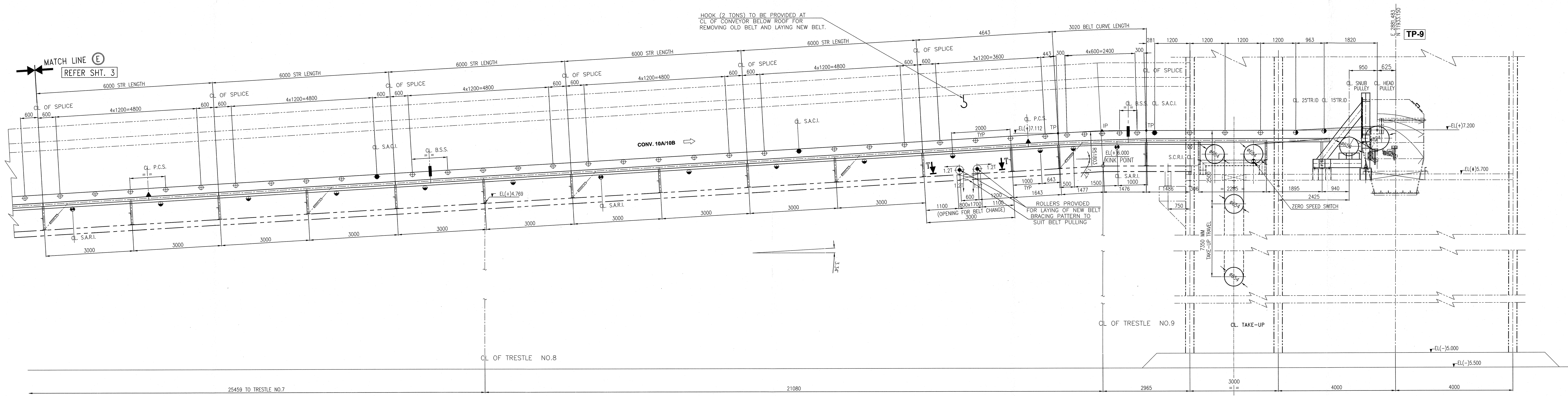
XX	APPD	AKC	24.17.10.2008											SIZE	RO
XX	DRAWING No. 0 8 0 3 7 - M - B M - C S - G A - 0 0 2 7													AO	A
XX	SHEET 3 OF 4														
XX	RELEASED FOR		☐ PRELIMINARY	☐ TENDER	☐ INFORMATION	☒ APPROVAL	☐ CONSTRUCTION								



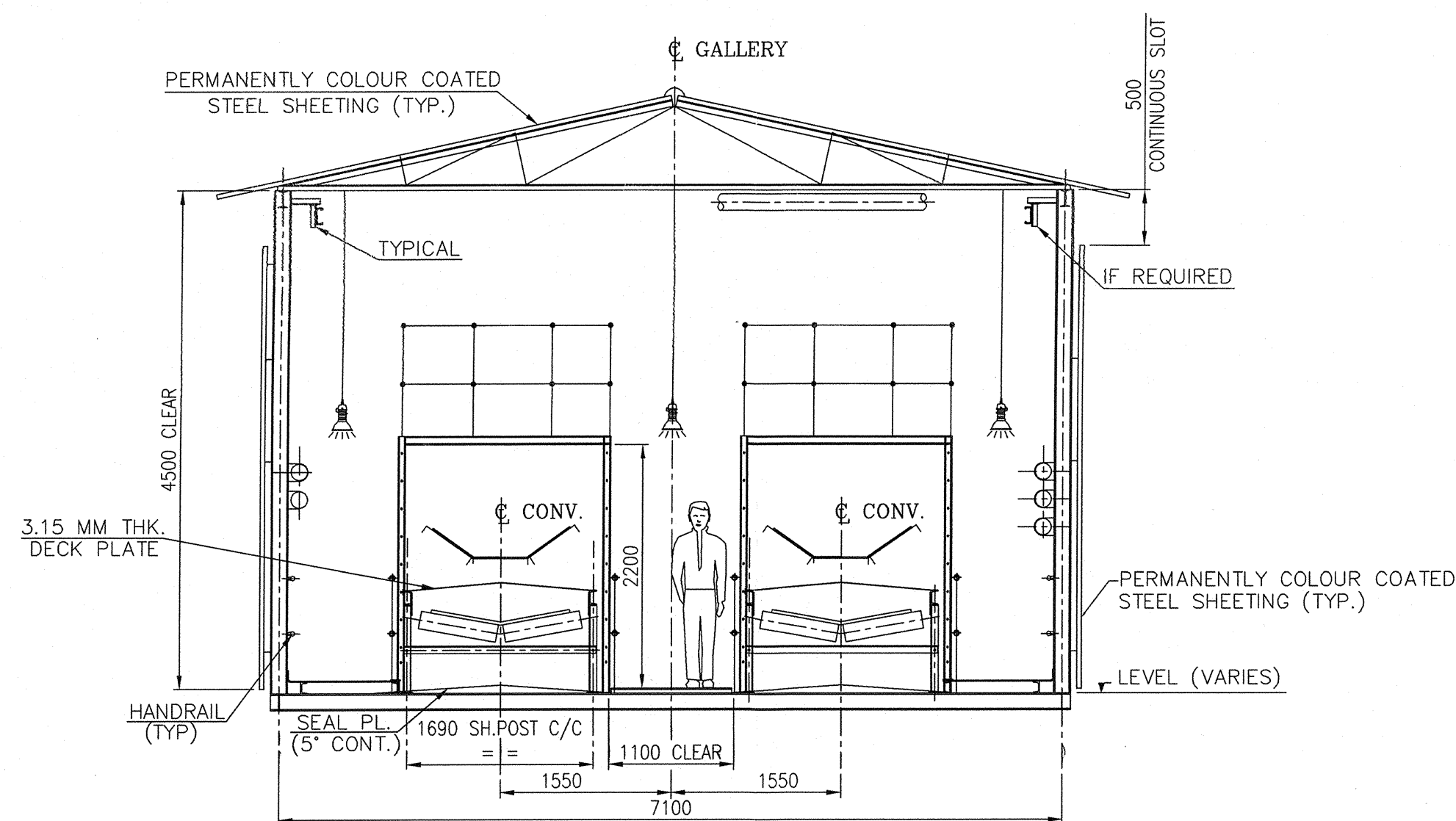
VIEW T-T
(SCALE 1:50)



DETAIL - '9'



VIEW B-B

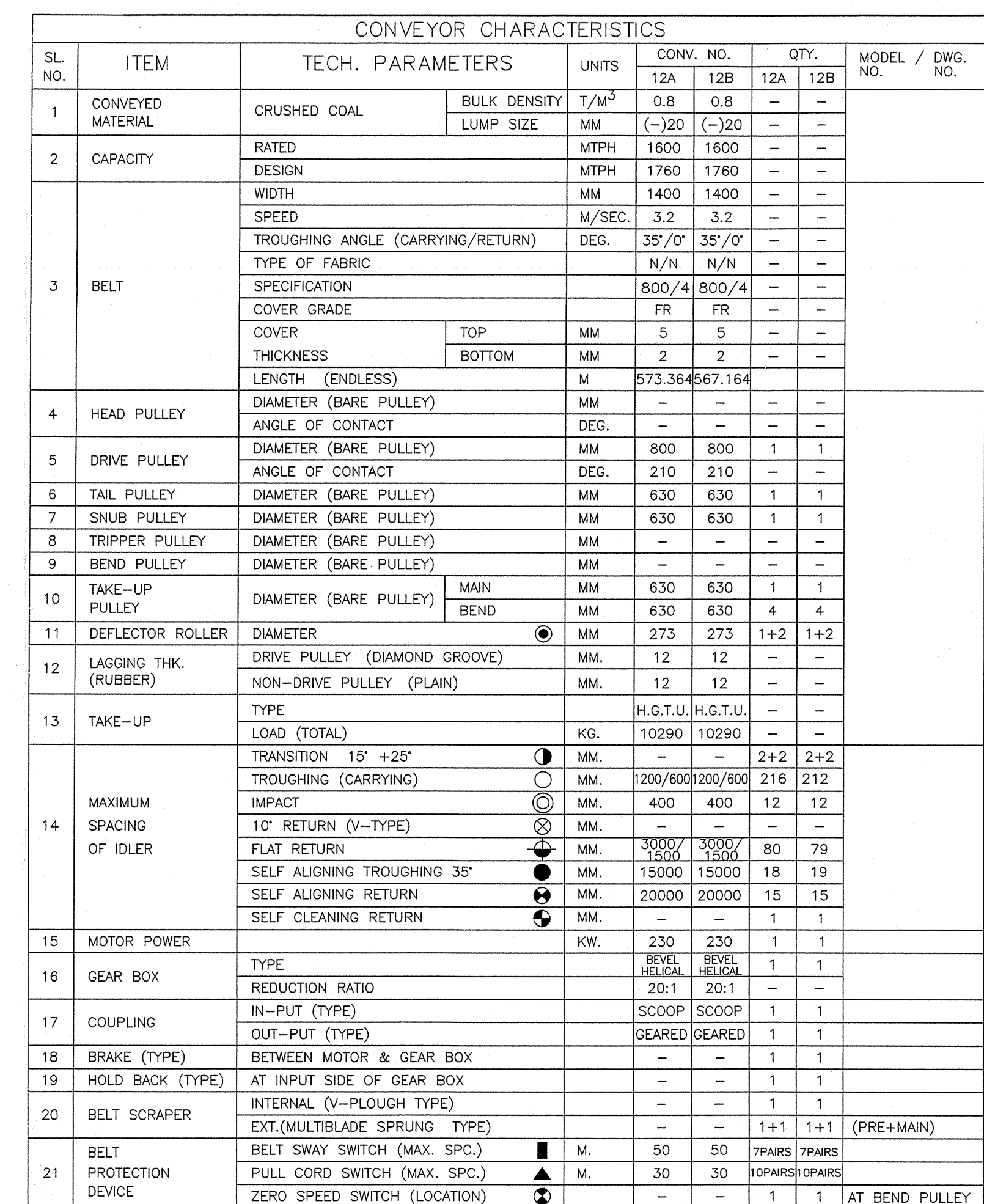
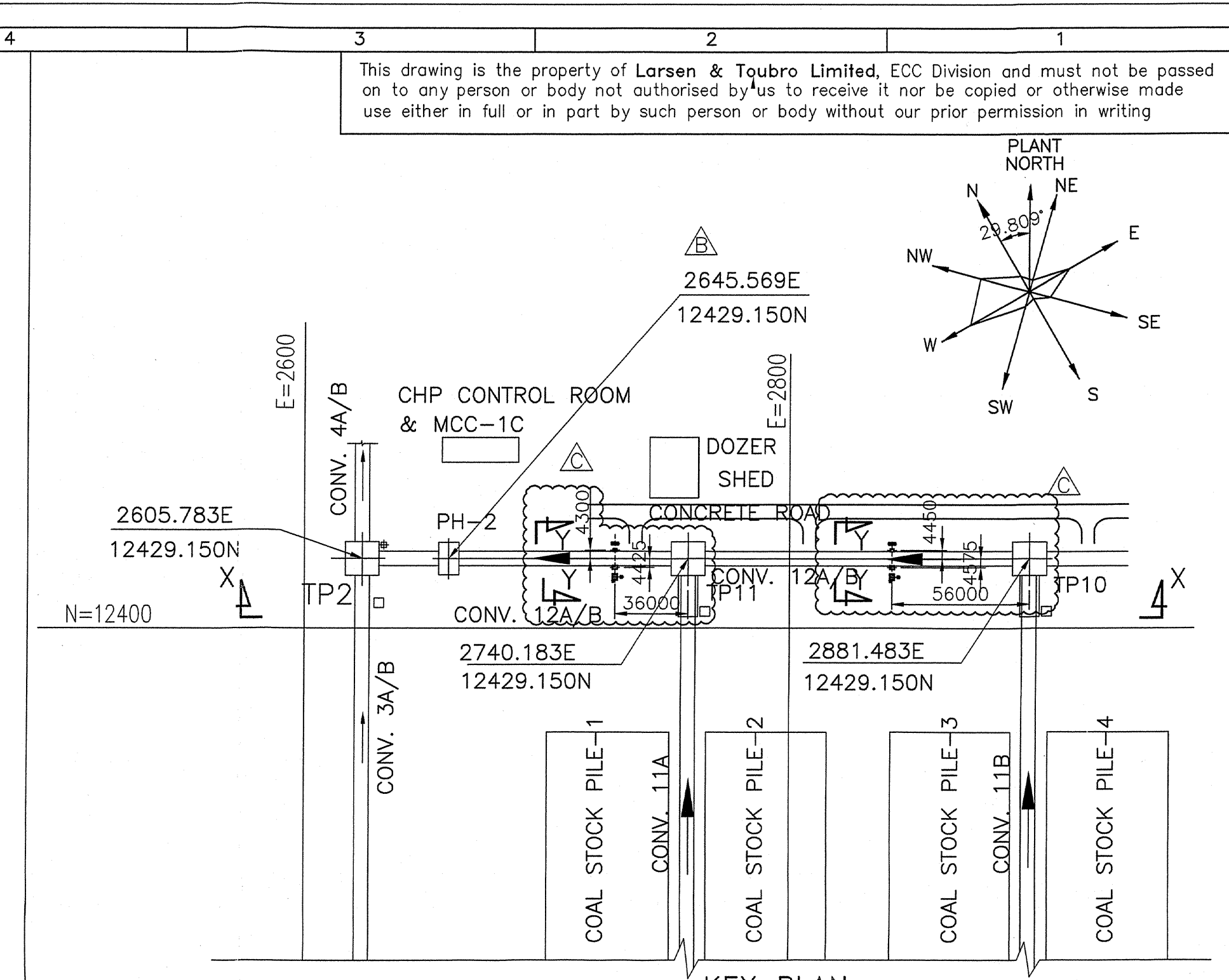


TYPICAL SECTION OF GALLERY
AT CROSS OVER

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRG. NO. 08037-M-BM-CS-CA-0027 SHT 1 OF 4, 2 OF 4 & 3 OF 4

JOB No. : 08037		TITLE :		SCALE :	
DESIGN	AB	DATE	17.10.2008	PRODUCTION	1:50
DRWN	TC	DATE	17.10.2008	PRODUCTION	1:50
CHKD	SRG	DATE	17.10.2008	PRODUCTION	1:50
APRD	AKC	DATE	17.10.2008	PRODUCTION	1:50
DRAWING No. 08037-M-BM-CS-CA-0027		SHEET 4 OF 4		REV. A	
REFERENCE DRAWINGS		CHECKED BY		APPROVAL	
		ARCHITECTURE		TENDER	
		CIVIL & STRUCTURAL		INFORMATION	
		UTILITY		APPROVAL	
		MECHANICAL		CONSTRUCTION	
		ELECTRICAL			
		INSTRUMENTATION			



- | | | | | | |
|--------|---|-------------|--------------|--------------|--------------|
| C | REVISED TO INCORPORATE VENT SHAFT & INSERT PLATES DETAILS FOR ELECTRICAL & UTILITY SYSTEM | DESIGNED | DRAWN | CHECKED | APPROVED |
| B | REVISED AS PER DVC COMMENTS DATED 07.11.08 | AB 17.02.09 | UCM 02.02.09 | PPC 07.02.09 | AKC 07.02.09 |
| A | FIRST ISSUE | AB 10.11.08 | UCM 06.11.08 | PPC 07.11.08 | AKC 07.11.08 |
| REVNO. | DESCRIPTION | DESIGNED | DRAWN | CHECKED | APPROVED |

LARSEN & TOUBRO LIMITED
ECC Division - EDRC

JOB No.: 08037				TITLE: G.A & MARKING OF CONV. NO. 12A & 12B
	NAME	SIGN	DATE	
DSSN	A.B		07.08.08	
DRWN	UCM		07.08.08	

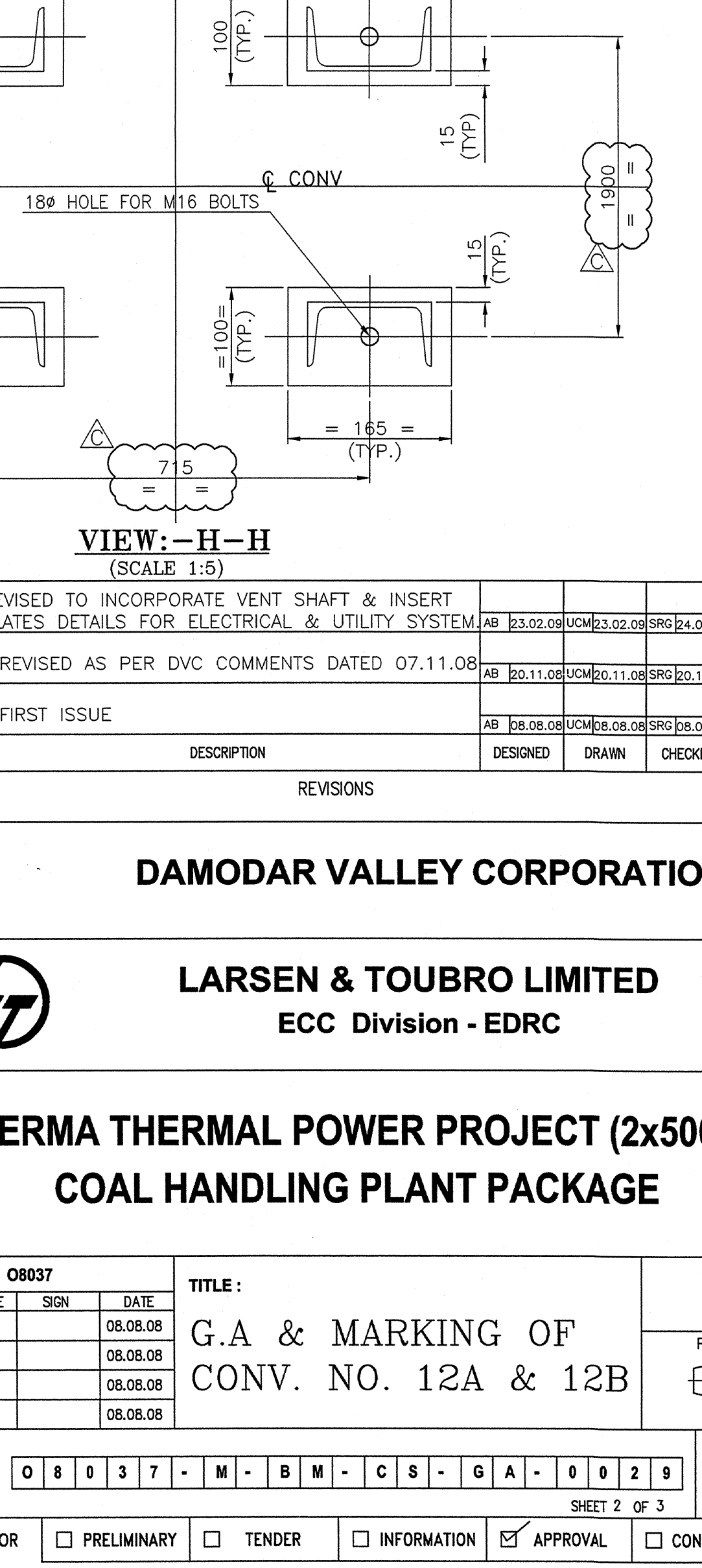
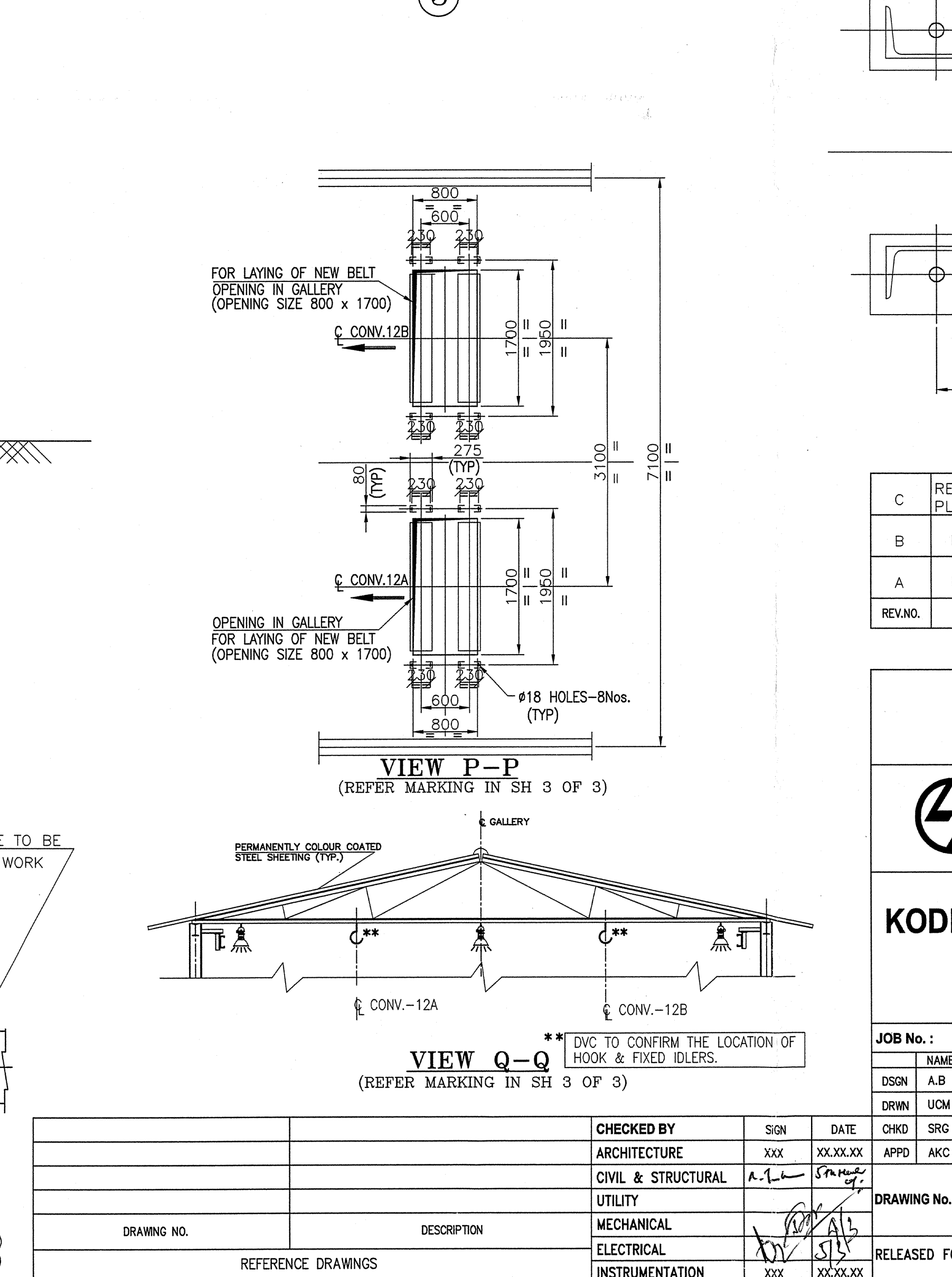
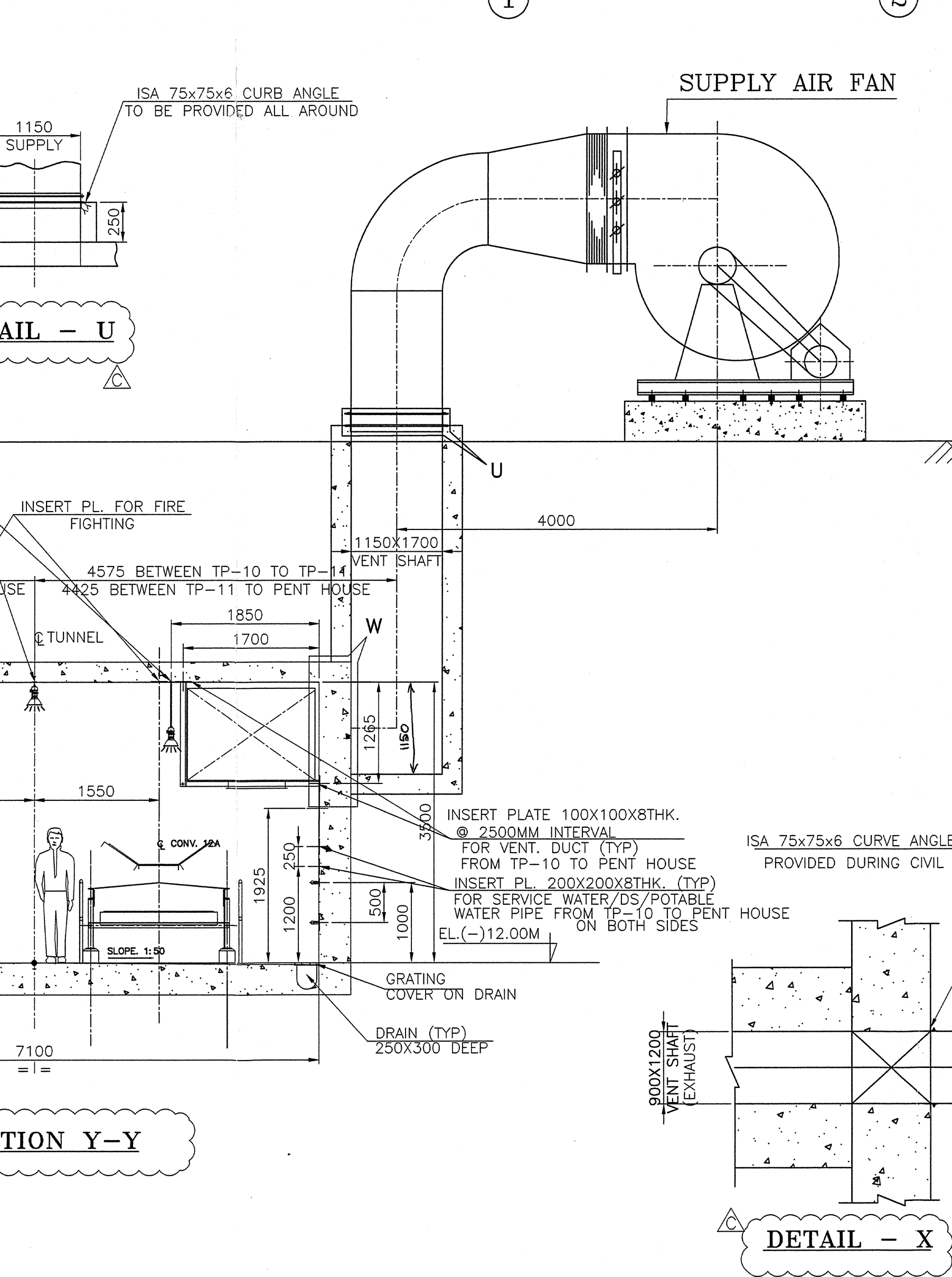
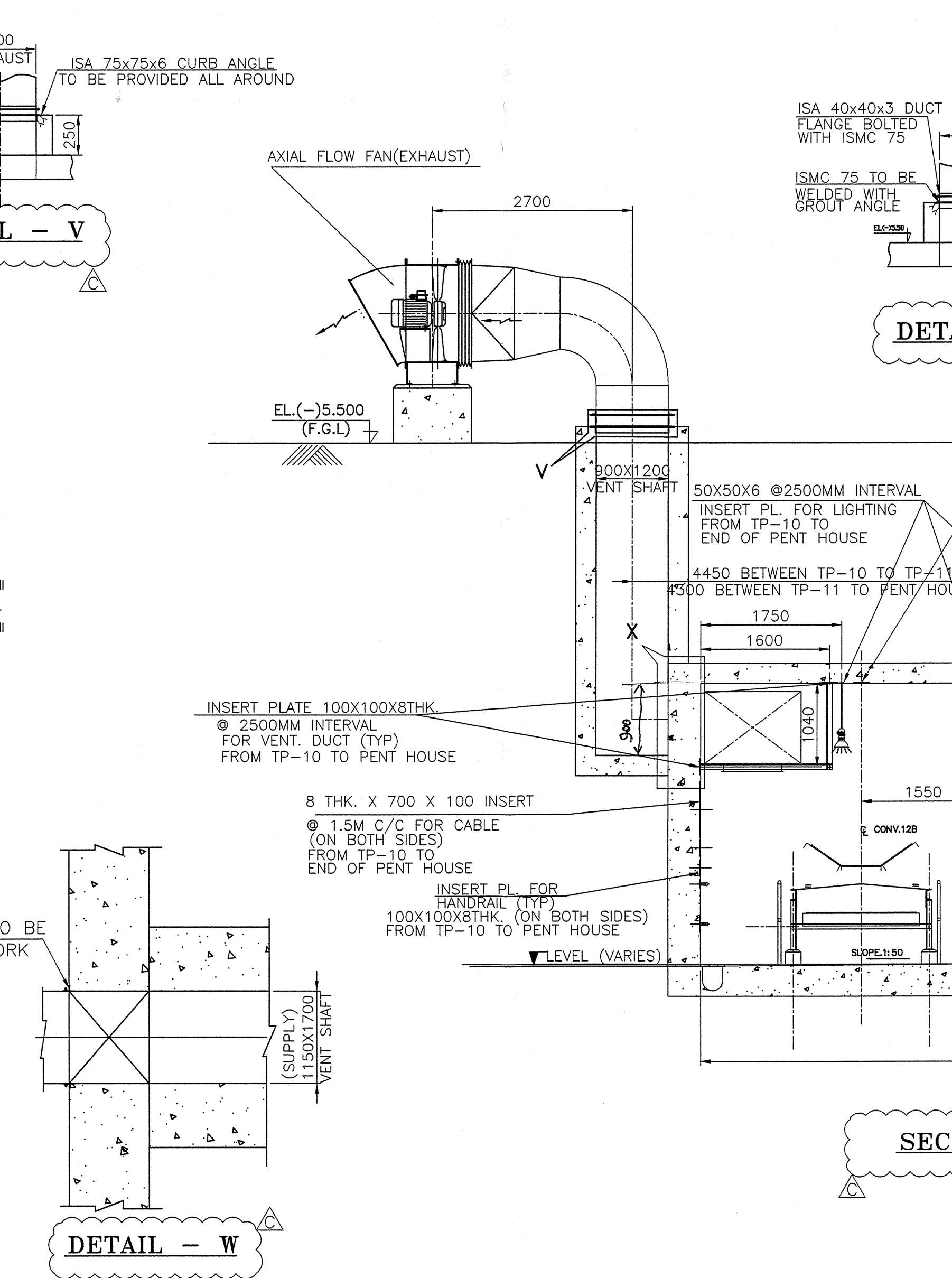
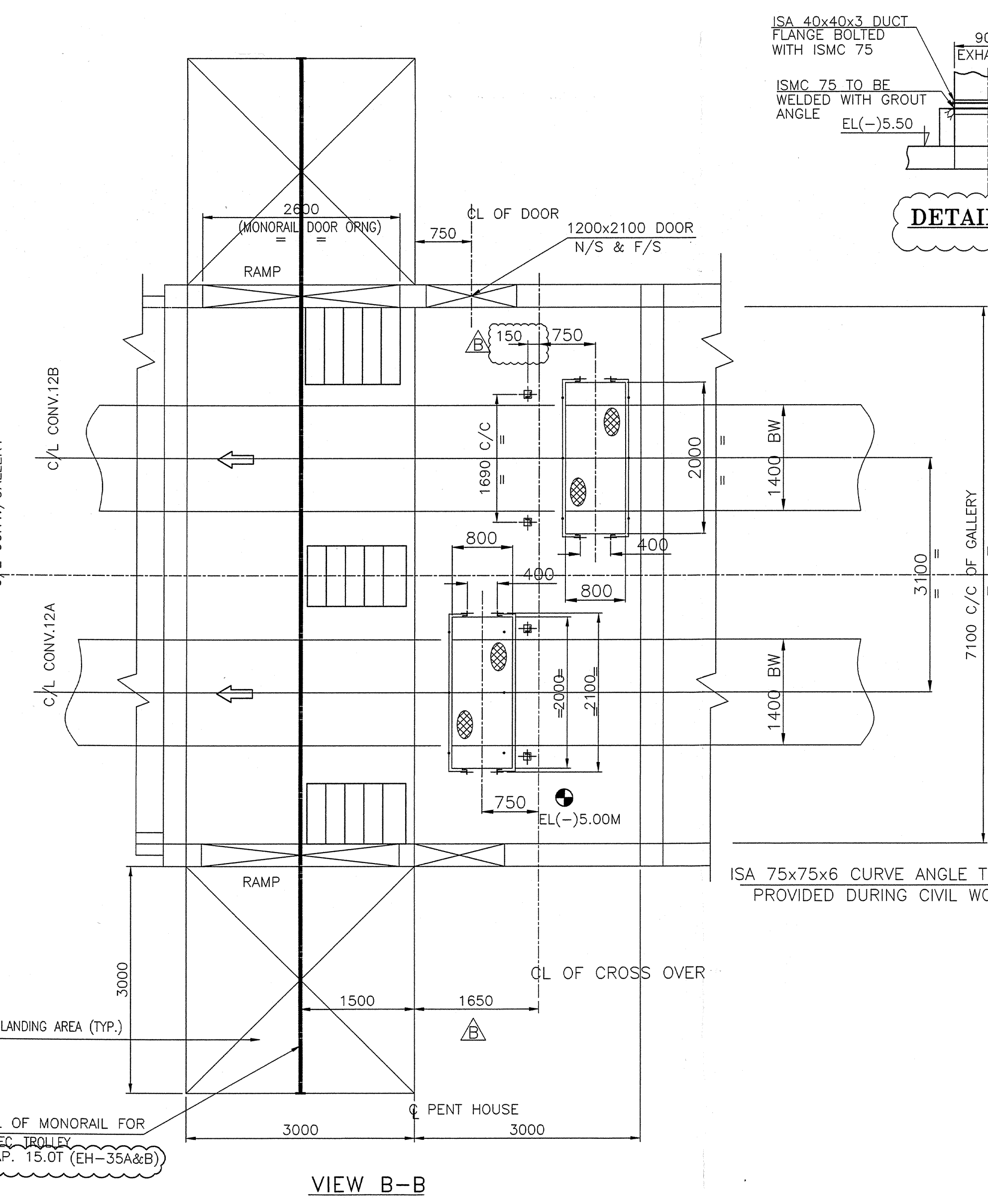
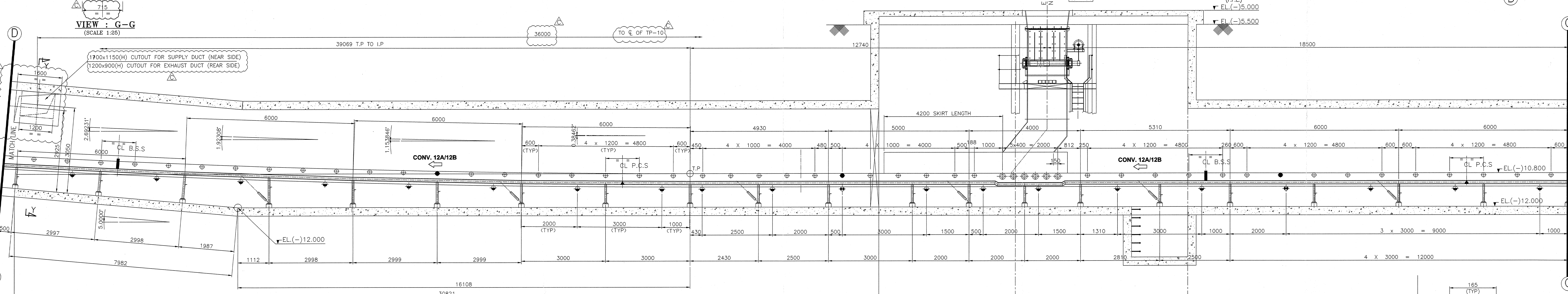
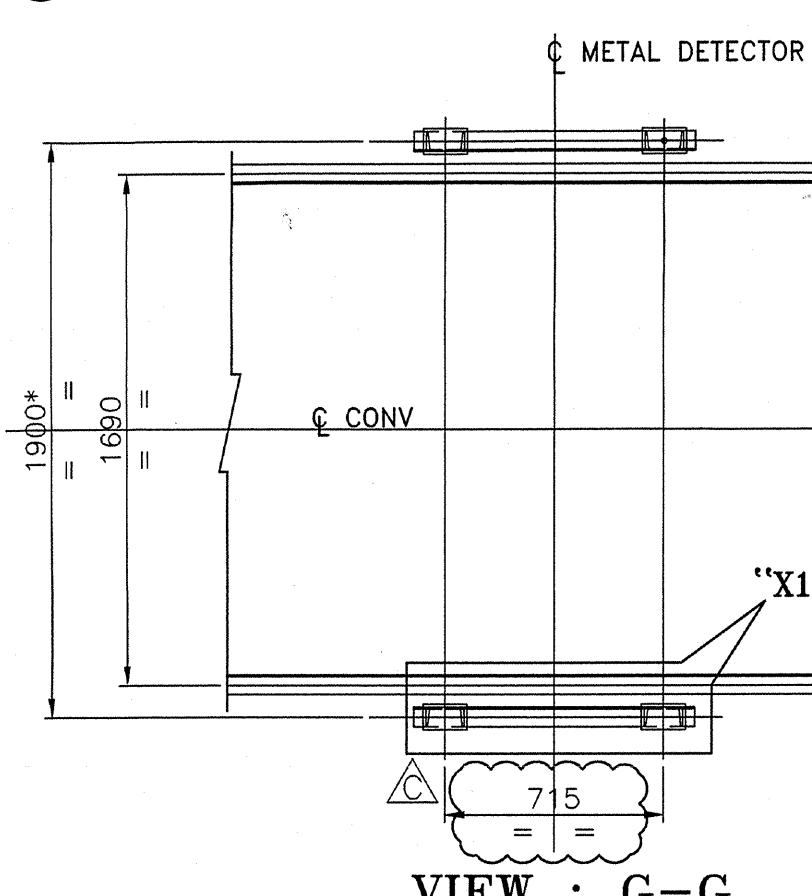
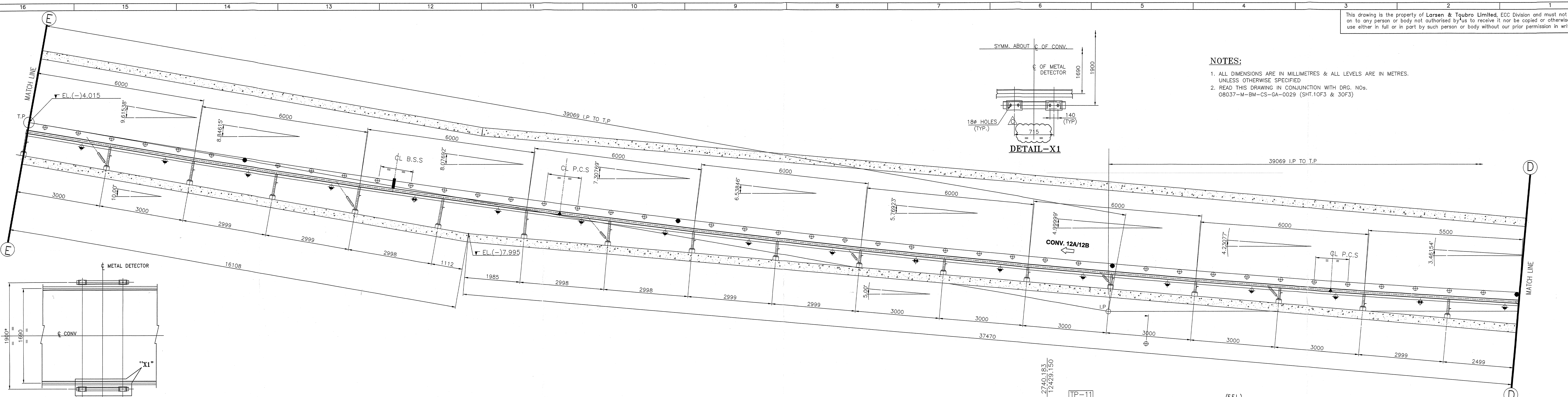
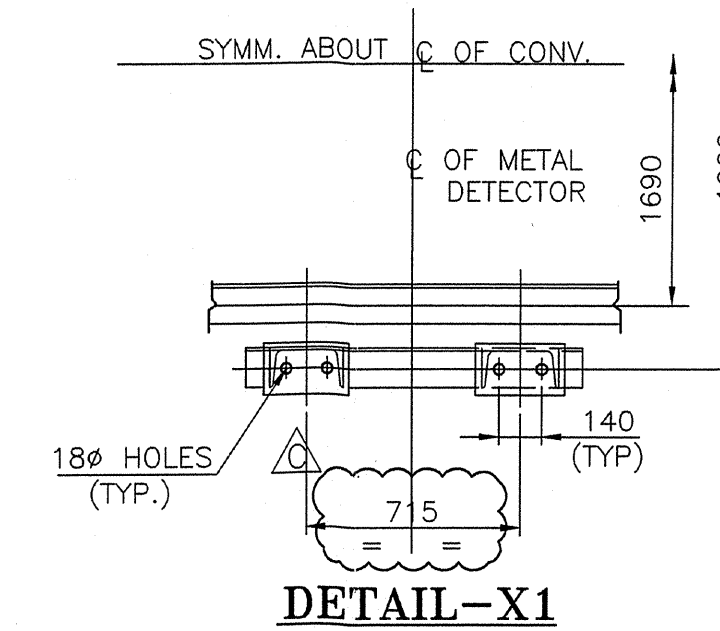
JOB No.: 08037				TITLE: G.A. & MARKING OF CONV. NO. 12A & 12B				SCALE 1:50												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NAME</th> <th>SIGN</th> <th>DATE</th> </tr> <tr> <td>DISA A.B</td> <td></td> <td>07.08.08</td> </tr> <tr> <td>DRUM ULM</td> <td></td> <td>07.08.08</td> </tr> <tr> <td>CHKD SRG</td> <td></td> <td>07.08.08</td> </tr> <tr> <td>APPO SMC</td> <td></td> <td>07.08.08</td> </tr> </table>								NAME	SIGN	DATE	DISA A.B		07.08.08	DRUM ULM		07.08.08	CHKD SRG		07.08.08	APPO SMC
NAME	SIGN	DATE																		
DISA A.B		07.08.08																		
DRUM ULM		07.08.08																		
CHKD SRG		07.08.08																		
APPO SMC		07.08.08																		
DRAWING NO. 0 8 0 3 7 - M - B M - C S - G A - 0 0 2 9 A0 REV. C																				
RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☒ APPROVAL CONSTRUCTION ☐								SHEET 1 OF 3												

08037 ~ BM - CS - GA - 0036	G. A. & LOAD DATA OF T.P-2	CHECKED BY ARCHITECTURE CIVIL & STRUCTURAL UTILITY MECHANICAL ELECTRICAL DETERMINATION	DSN	UDM	07.08.08	G.A. & MARKING OF CONV. NO. 12A & 12B	
08037 ~ BM - CS - GA - 0045	G. A. & LOAD DATA OF T.P-11		APD	UDM	07.08.08		
08037 ~ BM - CS - GA - 0044	G. A. & LOAD DATA OF T.P-10		CHD	ANG	07.08.08		
08037 ~ BM - CS - PP - 0002	PLOT PLAN		CHD	ANG	07.08.08		
08037 ~ BM - CS - FD - 0001	FLOW DIAGRAM		CHD	ANG	07.08.08		
DRAWING NO.	DESCRIPTION		DRAWING NO. 08037 - BM - CS - GA - 0029			SHEET 1 OF 3	REV. A0 C
REFERENCE DRAWINGS			RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☐ CONSTRUCTION				

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NOTES:

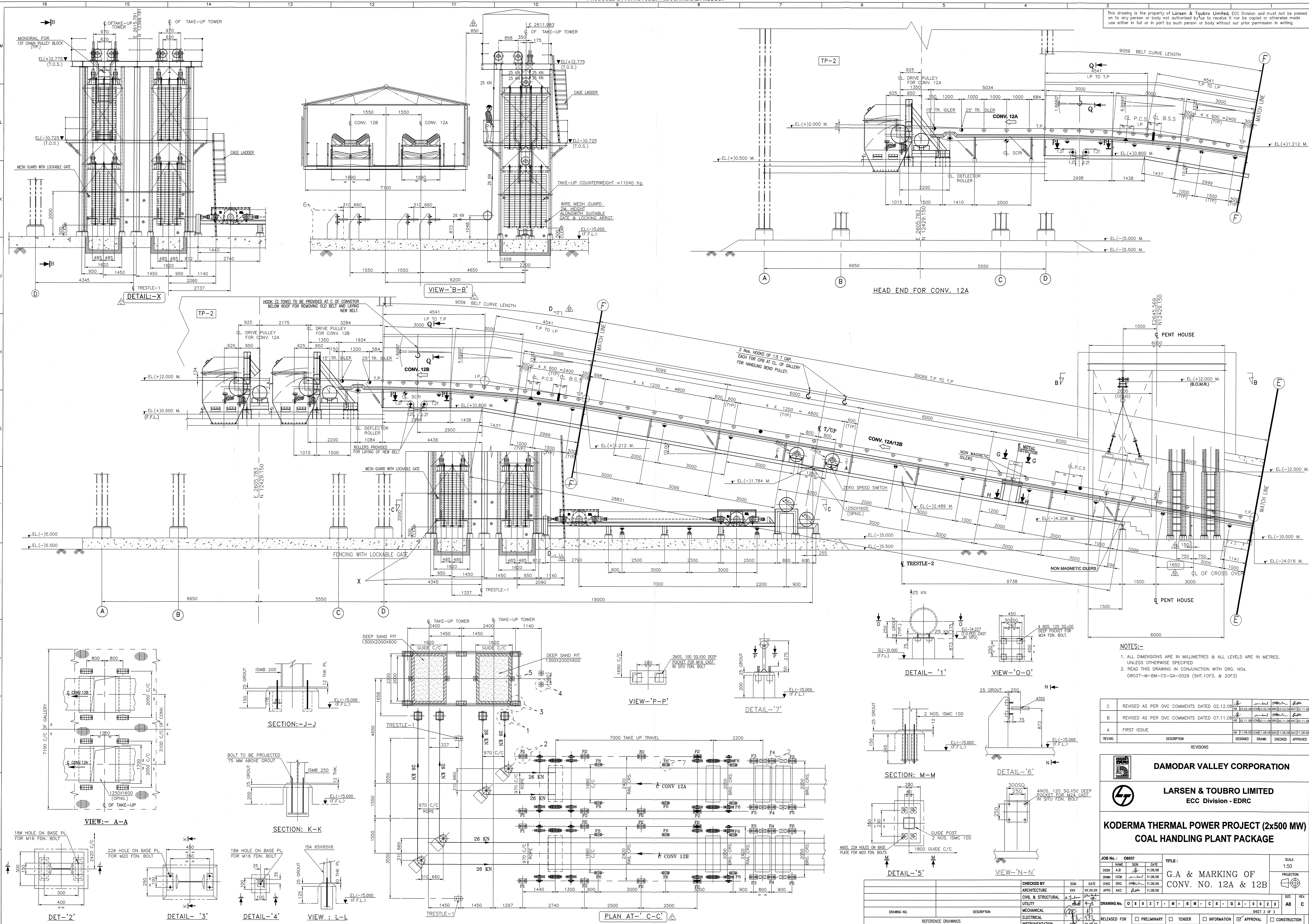
1. ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES. UNLESS OTHERWISE SPECIFIED.
2. READ THIS DRAWING IN CONJUNCTION WITH DRG. NOS. 08637-M-BM-CS-GA-0029 (SHT.10F3 & 30F3)



REVISIONS		REVISIONS
C	REVISED TO INCORPORATE VENT SHAFT & INSERT PLATES DETAILS FOR ELECTRICAL & UTILITY SYSTEM	08.06.08
B	REVISED AS PER DVC COMMENTS DATED 07.11.08	08.06.08
A	FIRST ISSUE	08.06.08

DAMODAR VALLEY CORPORATION	
LARSEN & TOUBRO LIMITED ECC Division - EDRC	
KODERMA THERMAL POWER PROJECT (2x500 MW) COAL HANDLING PLANT PACKAGE	
JOB No.: 08637	TITLE: G.A & MARKING OF CONV. NO. 12A & 12B
SCALE: 1:50	PROJECTION: 1st Angle
DATE: 08.06.08	DESIGNED: DRN
DATE: 08.06.08	CHECKED: CHD
DATE: 08.06.08	APPROVED: APC
DATE: 08.06.08	RELEASED FOR: [] PRELIMINARY [] TENDER [] INFORMATION [] APPROVAL [] CONSTRUCTION

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- NOTES:-
- ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES, UNLESS OTHERWISE SPECIFIED.
 - READ THIS DRAWING IN CONJUNCTION WITH DRG. NOS. 08037-BM-C5-GA-0029 (SHT.10F3, & 20F3)

REV	NO	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
C	1	REVISED AS PER DVC COMMENTS DATED 02.12.08				
B	2	REVISED AS PER DVC COMMENTS DATED 07.11.08				
A	3	FIRST ISSUE				

DAMODAR VALLEY CORPORATION

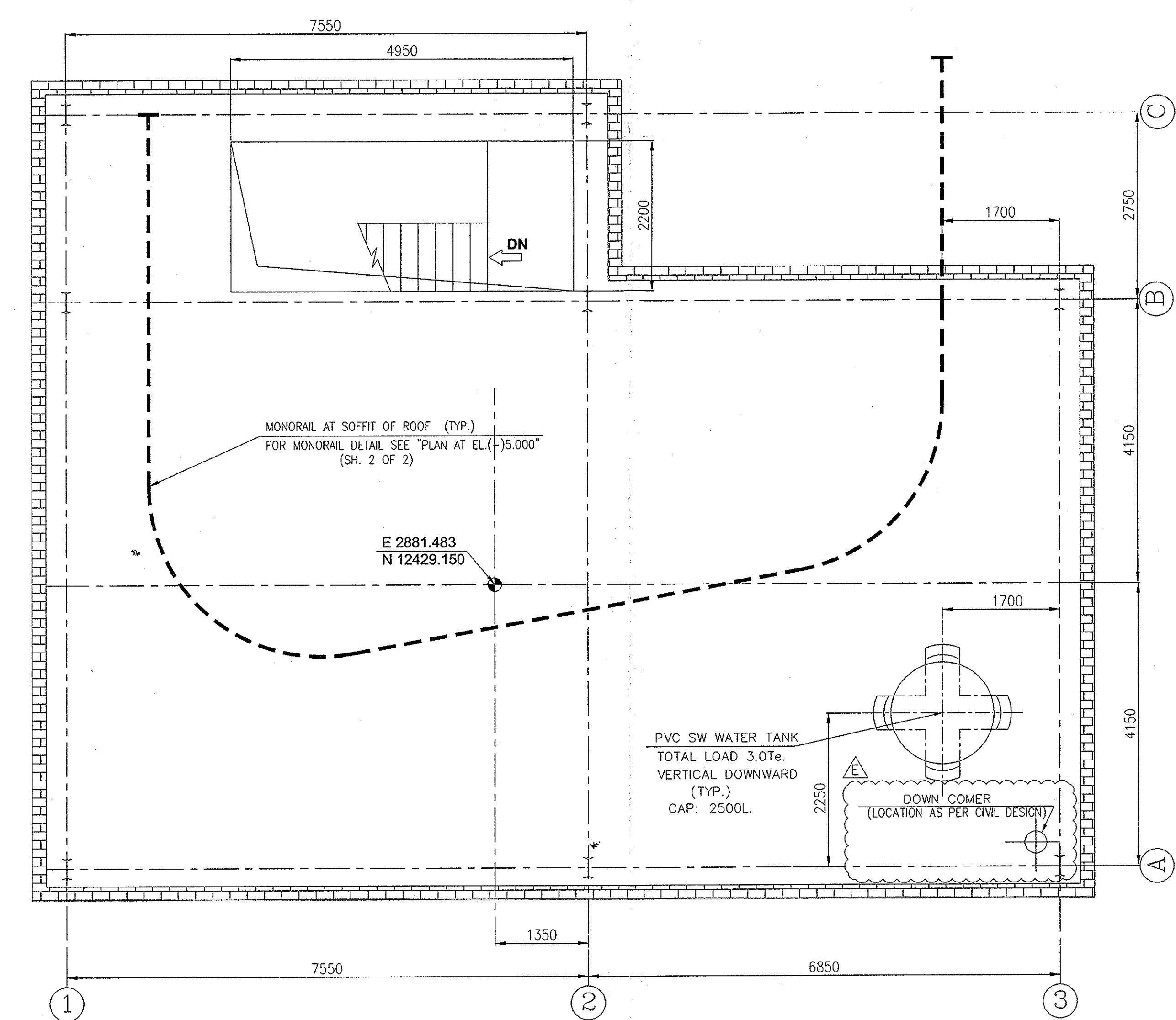
LARSEN & TOUBRO LIMITED
ECC Division - EDR

KODERMA THERMAL POWER PROJECT (2x500 MW)
COAL HANDLING PLANT PACKAGE

JOB No.: 08037		TITLE: G.A & MARKING OF CONV. NO. 12A & 12B	
DESIGN NAME	DATE	DRAWING NO.	SCALE
DESIGN NAME	DATE	08037-M-C5-GA-0029	1:50
DESIGN NAME	DATE		
DESIGN NAME	DATE		

CHECKED BY	DATE	APPROVED BY	DATE
ARCHITECTURE	11.08.08		
CIVIL & STRUCTURAL	11.08.08		
MECHANICAL	11.08.08		
ELECTRICAL	11.08.08		
INSTRUMENTATION	11.08.08		

RELEASED FOR: ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☒ APPROVAL ☐ CONSTRUCTION

[illegible]

25
GROUT
10 THK.

50
(THREADED LENGTH)

M16
FDN. BOLT

150

EL. (-) 12,000
(F.F.L.)

80 SOX200 DEEP
POCKET

VIEW: R-R

DETAIL-X3 (TYP.)

400

25 GROUT

25 THURDED LENGTH

EL. (-) 4.750
(T.O.C.)

200 SQ.20X20 DEEP

POCKET

EL.(-)35.00(FOR XI')

EL.(-)12.00(FOR XI')
(T.O.F.F.L.)

200

VIEW Y2 - Y2

OF CONVEYOR

Figure 10 is a technical drawing of a column base plate detail. It shows a square base plate with overall dimensions of 400mm by 450mm. The plate is supported by four cast-in-situ foundation bolts, each with a diameter of 22mm. The bolts are spaced 100mm apart. The plate is attached to a column with a diameter of 250mm. The bolts are cast in situ and are 2000mm long. The plate is made of steel and has a thickness of 10mm. The bolts are labeled "4xø22 HOLES FOR M20. CAST IN SITU FDN BOLTS".

450

25 THICK

100

10

200

175

EL. (-) 11.750
(T.O.C.)

EL. (-) 12.000
(T.O.F.F.L.)

VIEW Y5 - Y5

C/C OF CONVECTOR
(SYM. ABOUT CENTRE LINE)

200 SO x 200 DEEP
POCKET

Figure 1: Detail of the column base plate. The diagram shows a rectangular base plate with dimensions 500 mm by 250 mm. It features four M20 holes (4xM20 HOLES FOR M20) arranged in a 2x2 grid. The plate is cast in situ concrete. Dimensions include 100 mm for the top edge, 250 mm for the left edge, 500 mm for the bottom edge, and 250 mm for the right edge. A Y5 axis is indicated on the left and right sides. A note '2550 FOR M16' is present on the right side.

1. ALL LEVELS AND GRIDS ARE INDICATED IN METERS. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFICALLY MENTIONED.

2. ALL CIVIL/STRUCTURAL ARRANGEMENTS SHOWN HERE ARE INDICATIVE ONLY.

3. DETAILS OF UTILITY FACILITY, VENTILATION SYSTEM WILL BE SHOWN IN SEPARATE DRAWING.

4. READ THIS DRAWING IN CONJUNCTION WITH DRG. NO.08037-M-BM-CS-GA-0044 SHT.2 OF 2

5. ALL ELEVATIONS SHOWN ARE TOP OF FINISHED FLOOR.

6. ELU

7. EL (+) 0.00 CORRESPONDS TO RL (+)3787.5 (MADAN PLANT FLT.)

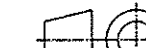
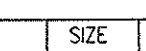
8. 100 MM HIGH CURB WILL BE PROVIDED ALONG THE OPENING.

9. FOR DETAIL OF DIME BASE FRAME AND PULLEY FRAME REFER SEPARATE DRAWING.

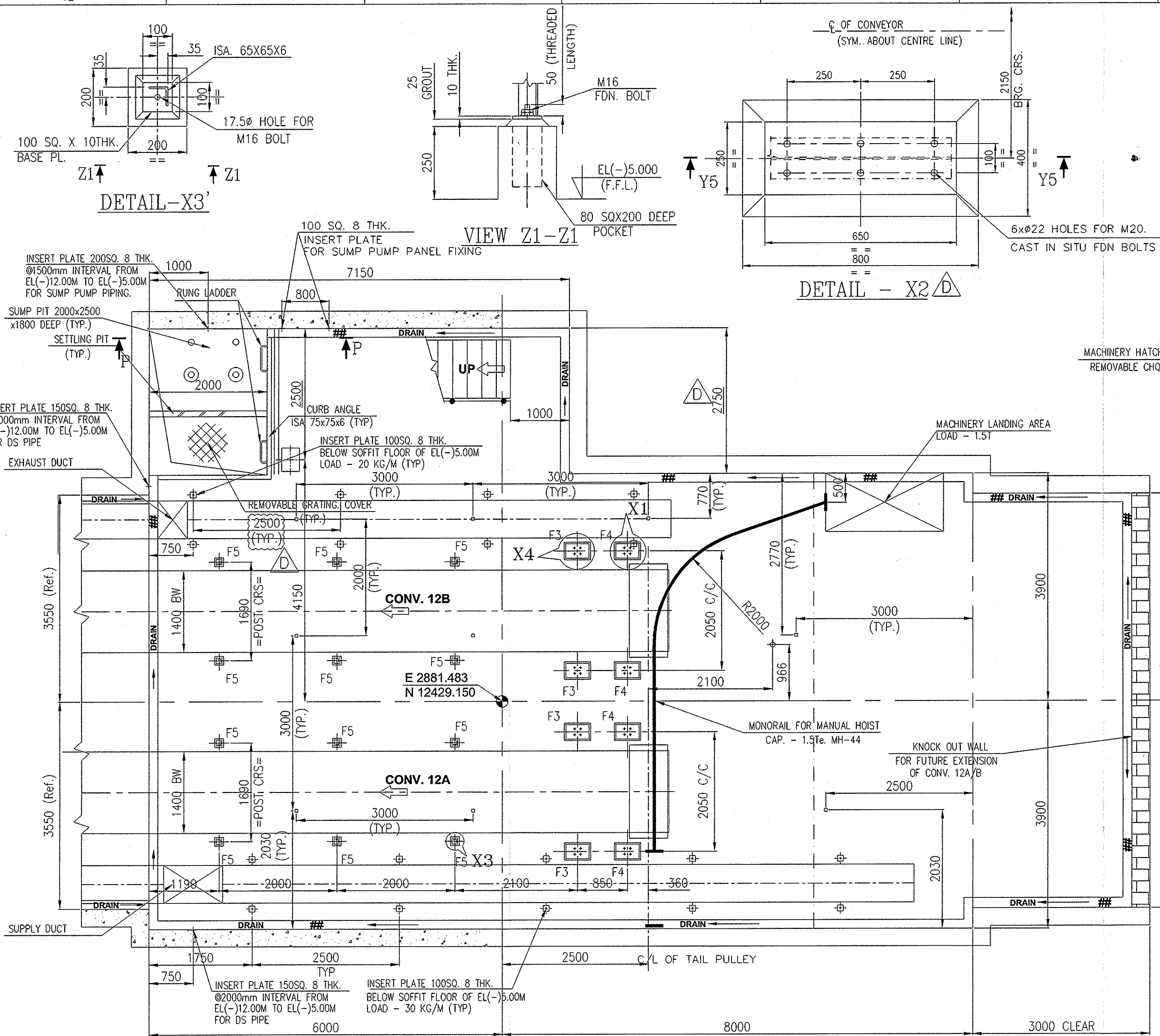
10. LET & OPERATING HOIST FOR EACH HOIST WILL BE FURNISHED IN SEPARATE DRAWING.

[illegible]

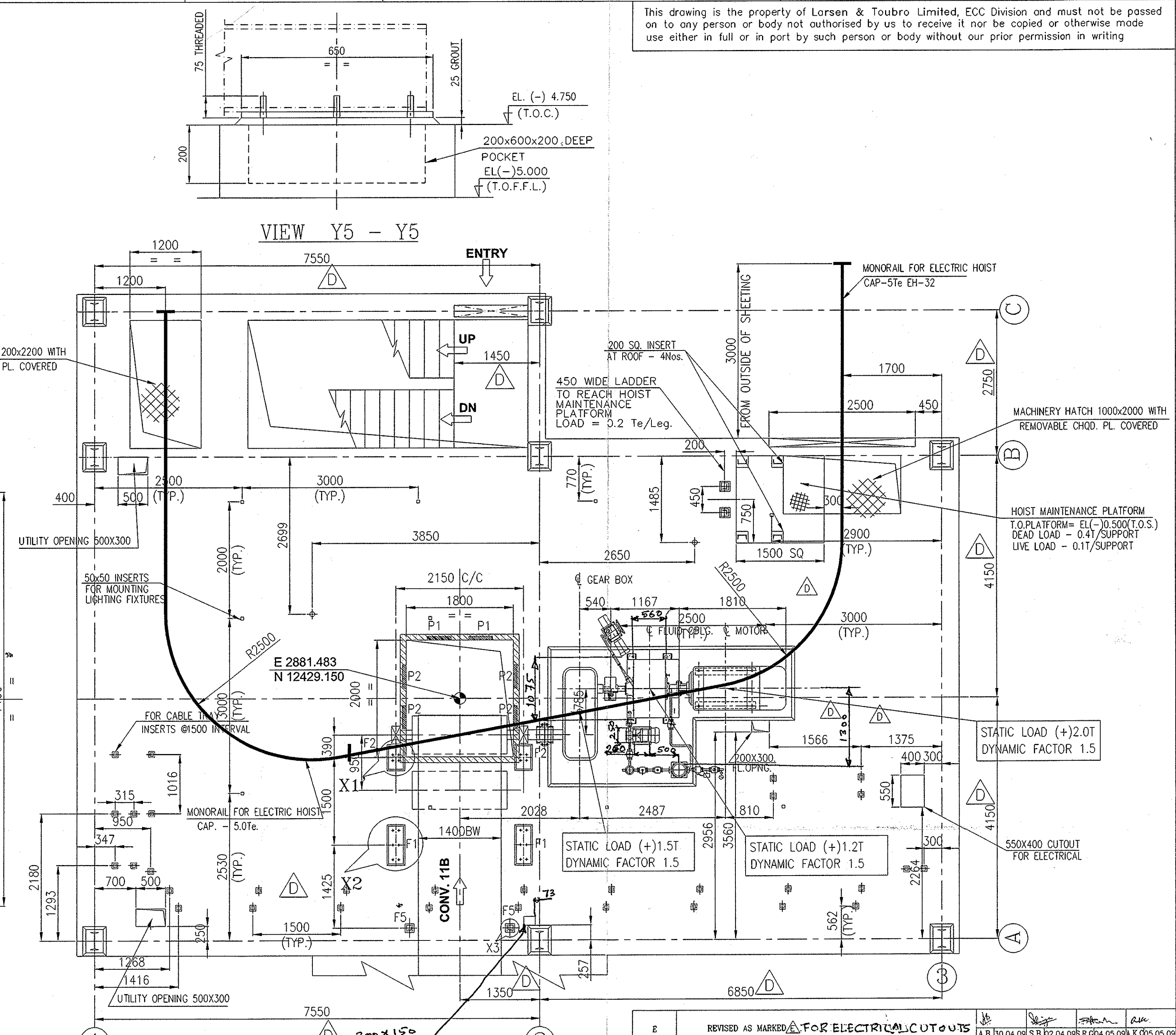
KODERMA THERMAL POWER PROJECT (2x500 MW)
COAL HANDLING PLANT PACKAGE

JOB No. : 05037				TITLE :				SCALE 1/50	
NAME		DOGN		DATE		GA AND LOAD DATA OF TP-10 			
DSGN	A.B	<i>Se</i>		10.09.08					
DRWN	A.B	<i>Se</i>		10.09.08					
CHD	S.R.G	<i>Se</i>		10.09.08					
APPO		A.K.C.		<i>Se</i>		10.09.08			
DRAWING NO.		O B C 3 7 - M - B M - C S - G A - 0 0 4 4							
RELEASED FOR		☐ PRELIMINARY		☐ TENDER		☐ INFORMATION		☒ APPROVAL	
								☐ CONSTRUCTION	

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PLAN AT EL (-)12.000



PLAN AT EL (-)5.000

LOAD TABLE-1

(HEAD PULLEY FRAME FOR CONV 11B)

POINT	LOAD		
	V (IN T)	H (IN T)	M (IN T-M)
F1	(+)5.0	(-)4.1	0
F2	(-)3.2	(-)1.4	0

CONSIDER ACROSS CONV. LOAD OF 0.2 T (+/-) FOR DESIGN OF INDIVIDUAL FDN.

LOAD TABLE-2

(TAIL PULLEY FRAME FOR CONV 12A/12B)

POINT	LOAD		
	V (IN T)	H (IN T)	M (IN T-M)
F3	(+) 4.3	(+)2.8	0
F4	(-) 3.4	(+)0.9	0

CONSIDER ACROSS CONV. LOAD OF 0.2 T (+/-) FOR DESIGN OF INDIVIDUAL FDN.

LOAD TABLE-3

(SHORT POST FOR CONV 12A/12B)

POINT	LOAD		
	V (IN T)	H (IN T)	M (IN T-M)
F5	(+)0.815	(±)0.03	0

CONSIDER ACROSS CONV. LOAD OF 0.03 T (+/-) FOR DESIGN AT F5

LOAD TABLE-4

(FOR OTHER LOAD POINT FROM CHUTE SADDLE)

TYPE	VERTICAL LOAD (IN T.)	HORZ. LOAD IN T. ACROSS & ALONG THE CONV.
P1	(+)2.0	-
P2	(+)2.0	-

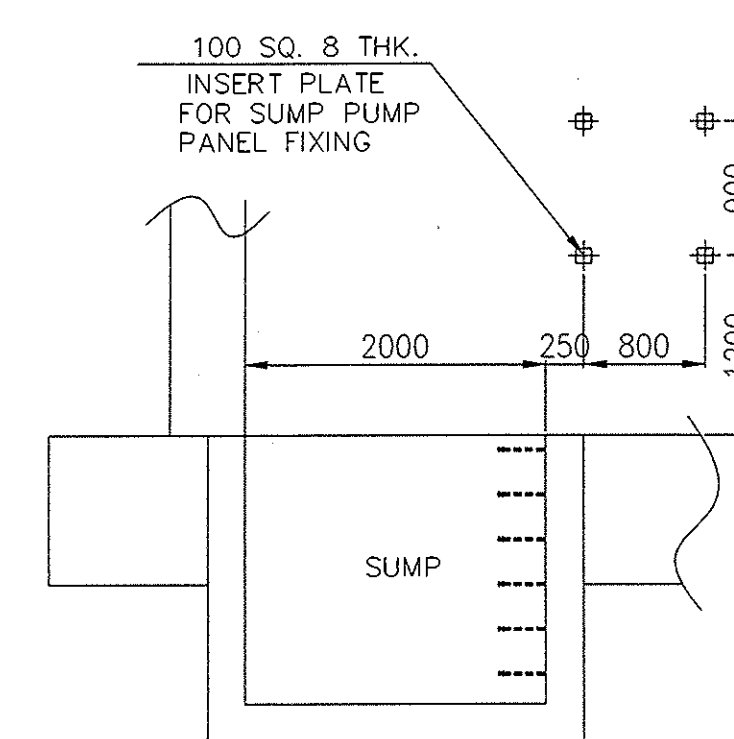
NOTES

- ALL LEVELS AND GRIDS ARE INDICATED IN METRES. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFICALLY MENTIONED.
- READ THIS DRAWING IN CONJUNCTION WITH DRG. NOS.08037-M-BM-CS-GA-0044 SHT. 1 OF 2
- DELETED.

SIGN CONVENTION

- (V) VERTICAL LOAD
(H) HORIZONTAL LOAD
REVERSIBLE LOAD
ALL LOADS ARE ACTING AT T.O.BASE PLATE
- UPWARD (-)
DOWNWARD (+)
TOWARDS HEAD PULLEY=(+)
TOWARDS TAIL PULLEY=(-)
(+/-)

NOTE :- LOAD MARKING F1 TO F5 FOR A PARTICULAR CONVEYOR ARE ACTING SIMULTANEOUSLY



VIEW P-P

DRAWING No.		DESCRIPTION		REFERENCE DRAWINGS	
08037		GENERAL ARRANGEMENT & LOAD DATA OF TP-10		08037-M-BM-CS-GA-0044	
CHECKED BY	ARCHITECTURE	SIGN	DATE	CHKO	SRG
ARCHITECTURE	XXX	XX.XX.XX	05.05.08	APPO	AKC
CIVIL & STRUCTURAL	2.3.11	2.3.11	05.05.08	APPO	AKC
UTILITY	2.3.11	2.3.11	05.05.08	APPO	AKC
MECHANICAL	2.3.11	2.3.11	05.05.08	APPO	AKC
ELECTRICAL	2.3.11	2.3.11	05.05.08	APPO	AKC
INSTRUMENTATION	2.3.11	2.3.11	05.05.08	APPO	AKC

REV. NO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
E	REVISED AS MARKED FOR ELECTRICAL CUTOUTS	A.B. 30.04.08	S.B. 02.04.08	R.G. 04.05.08	A.K. 05.05.08
D	REVISED AS MARKED BASED ON DVC'S COMMENTS DATED 16.02.09	A.B. 19.02.09	S.B. 19.02.09	R.G. 19.02.09	A.K. 19.02.09
C	REVISED AS PER DVC'S COMMENTS DATED 14.11.08	A.B. 18.11.08	S.B. 18.11.08	R.G. 18.11.08	A.K. 18.11.08
B	REVISED AS PER DVC'S COMMENTS DATED 11.09.08	A.B. 19.09.08	S.B. 19.09.08	R.G. 19.09.08	A.K. 19.09.08
A	FIRST ISSUE	A.B. 11.07.08	T.C. 11.07.08	S.R.G. 11.07.08	A.K. 11.07.08

DAMODAR VALLEY CORPORATION

LARSEN & TOUBRO LIMITED
ECC Division - EDRC

KODERMA THERMAL POWER PROJECT (2x500 MW)
COAL HANDLING PLANT PACKAGE

JOB No. : 08037

NAME : **GENERAL ARRANGEMENT & LOAD DATA OF TP-10**

SCALE : 1:50

PROJECTION :

DATE : 05.05.08

DESIGNED : A.B.

DRAWN : T.C.

CHECKED : S.R.G.

APPROVED : A.K.

DRAWING No. 08037-M-BM-CS-GA-0044

SHEET 2 OF 2

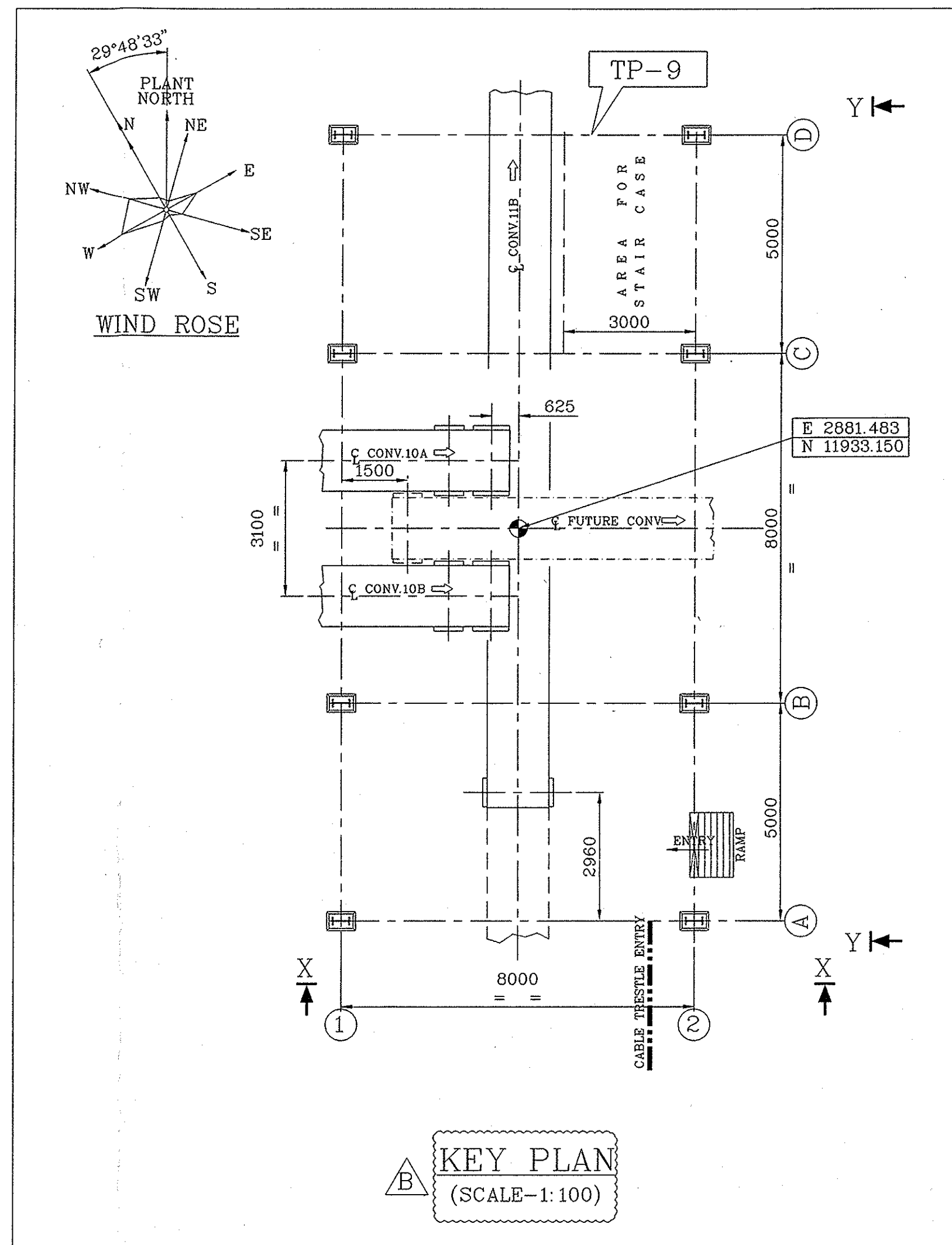
SIZE : A1

REV. : E

RELEASED FOR

☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☒ APPROVAL ☐ CONSTRUCTION

DATE : 12.05.08



LOAD TABLE-1 (FOR HEAD FRAME OF CONV 10A/10B) (MARKING REF SHEET 2 OF 2)

POINT	LOAD	FLOOR
	V (IN T) H (IN T) M (IN T-M) ELEVATION	POINTS (FT)
F1	(-) 4.8 (-) 2.4 0	(+) 5.700
F2	(+) 6.6 (-) 7.00 0	(+) 5.700

CONSIDER ACROSS CONV. A LOAD OF (+) 0.2 T FOR DESIGN OF INDIVIDUAL FOUNDATION.

LOAD TABLE-2 (FOR TAIL/T-UP PULLEY & RAIL SUPPORT OF CONV. 11B) (MARKING REF SHEET 2 OF 2)

POINT	VERTICAL LOAD	HORIZONTAL LOAD IN T	FLOOR ELEVATION
	(IN T)	ALONG THE CONV	POINTS (FT)
F3	(+) 2.00	(±) 0.03	EL. (-) 5.000
F4	(-) 0.100	-	EL. (-) 5.000

CONSIDER ACROSS CONV. LOAD (±) 0.03 T FOR DESIGN AT F3 & F4.

LOAD TABLE-3 (SHORT POST FOR CONV 11B) (MARKING REF SHEET 2 OF 2)

POINT	LOAD	FLOOR
	V (IN T) H (IN T) M (IN T-M) ELEVATION	POINTS (FT)
F5	(+) 0.815 (±) 0.03 0	(-) 5.000

CONSIDER ACROSS CONV. LOAD OF 0.03 T (+/-) FOR DESIGN AT F5.

LOAD TABLE-4 (FOR OTHER LOAD POINT FROM CHUTE SADDLE)

POINT	LOAD	FLOOR
	V (IN T) H (IN T) M (IN T-M) ELEVATION	POINTS (FT)
P1	(+) 1.5 0 0	(+) 5.700
P2	(+) 3.0 0 0	(+) 5.700
P3	(+) 4.0 0 0	(+) 5.700
P4	(+) 1.75 0 0	(-) 1.300

SIGN CONVENTION

- (V) VERTICAL LOAD : UPWARD (-)
DOWNWARD (+)
(H) HORIZONTAL LOAD : TOWARDS HEAD PULLEY (+)
TOWARDS TAIL PULLEY (-)
REVERSIBLE LOAD (±)
ALL LOADS ARE ACTING AT TOP OF PEDESTAL

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES.
- ALL ELEVATIONS GIVEN ARE AT TOP OF FINISHED FLOOR
- ALL CIVIL / STRUCTURAL ARRANGEMENT SHOWN IN THIS DRAWING ARE INDICATIVE ONLY.
- EL. (+) 0.000 LEVEL CORRESPONDS TO RL. (+) 376.5M. (MAIN PLANT FFL.)
- 6-DIMENSIONS SHOWN IN THIS DRAWING SHALL BE FINALISED AFTER RECEIPT OF VENDOR/MANUFACTURER'S DRAWING.
- READ THIS DRAWING IN CONJUNCTION WITH DRG. NO. 08037-M-BM-CS-GA-0043, SHT-2 OF 2.
- ALL FLOOR OPENINGS SHALL HAVE 100mm HIGH CURB ALL AROUND THE OPENING.
- DETAIL OF DUST SUPPRESSION, VENTILATION AND UTILITY SYSTEM AND ELECTRICAL LAYOUT AS REQUIRED WILL BE SHOWN IN SEPARATE DRAWING.
- INSPECTION AND PORE HOLES SHALL BE PROVIDED AT SUITABLE LOCATIONS AND WILL BE SHOWN IN CHUTE GA DRAWING.
- NECESSARY OPENING WITH REMOVABLE TYPE SIDE SHEETING WITH TP-9 HAVE BEEN CONSIDERED FOR FUTURE EXTENSION.
- LIFT & OPERATING HEIGHT FOR EACH HOIST WILL BE FURNISHED IN SEPARATE DRAWING.

SPECIAL NOTE:
ALL UTILITY PIPES TO BE LAYED/EMBEDDED BEFORE CASTING OF FINISHED FLOOR

NO.	DESCRIPTION	DATE	BY	CHECKED BY	DATE	BY	CHECKED BY
08037-M-BM-CS-GA-0028	G.A. MARKING OF CONV. NO. 11A/B	10.09.06	XXX	XXX	10.09.06	XXX	XXX
08037-M-BM-CS-GA-0027	G.A. MARKING OF CONV. NO. 10A/B	10.09.06	XXX	XXX	10.09.06	XXX	XXX
08037-M-BM-CS-FD-0001	COAL HANDLING FLOW DIAGRAM	10.09.06	XXX	XXX	10.09.06	XXX	XXX
08037-M-BM-CS-PP-0002	COAL HANDLING PLANT LAYOUT	10.09.06	XXX	XXX	10.09.06	XXX	XXX

DRAWING NO. 08037-M-BM-CS-GA-0043, SHT-2 OF 2

REFERENCE DRAWINGS

DESIGNER: XXX, CHECKER: XXX, DATE: 10.09.06

PROJECT: DAMODAR VALLEY CORPORATION, LARSEN & TOUBRO LIMITED, ECC Division - EDRC

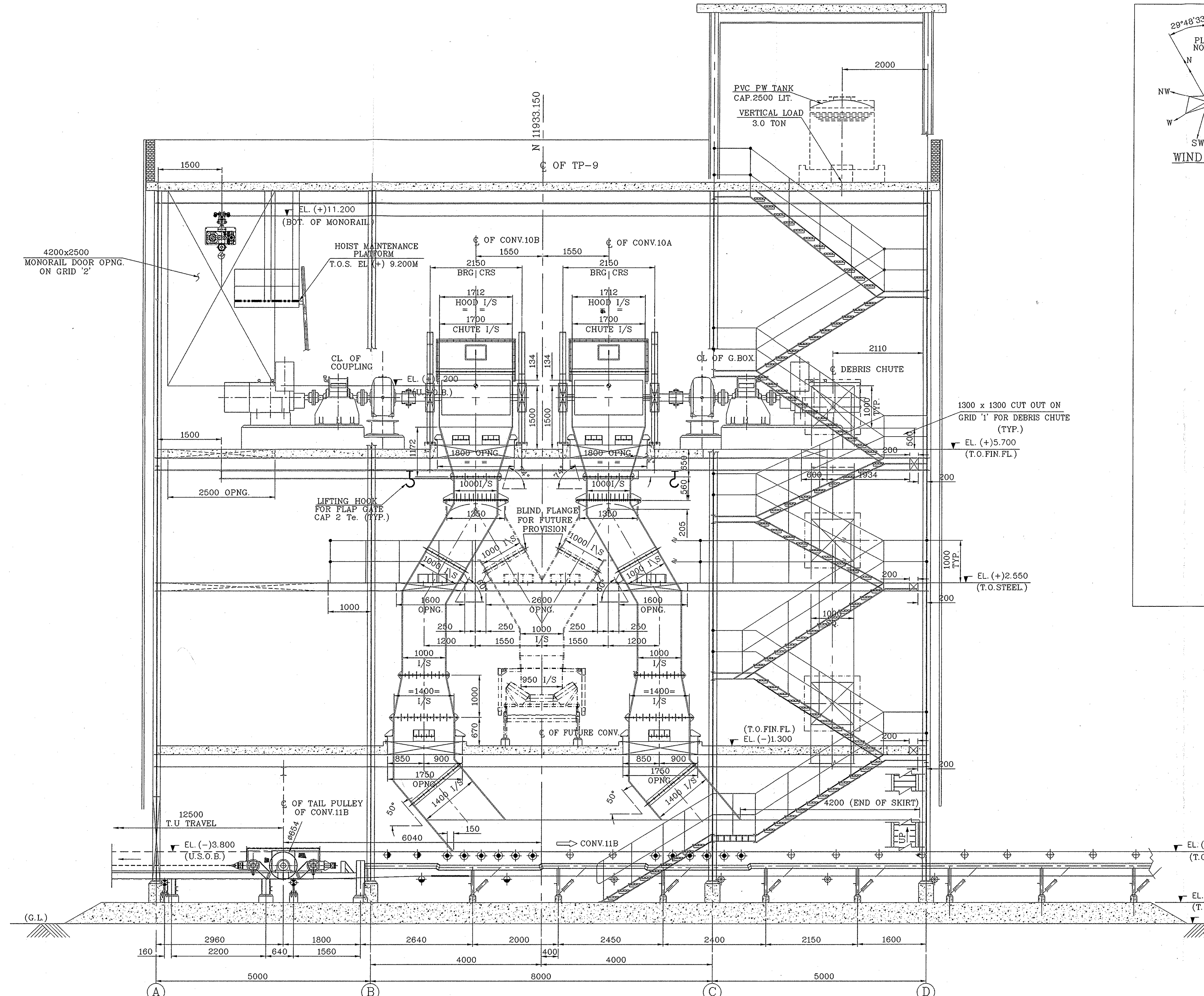
COAL HANDLING PLANT PACKAGE

GA AND LOAD DATA OF TP-9

SCALE: 1:50

PROJECTION: FIRST ANGLE

REVISIONS: 1. PRELIMINARY, 2. TENDER, 3. INFORMATION, 4. APPROVAL, 5. CONSTRUCTION

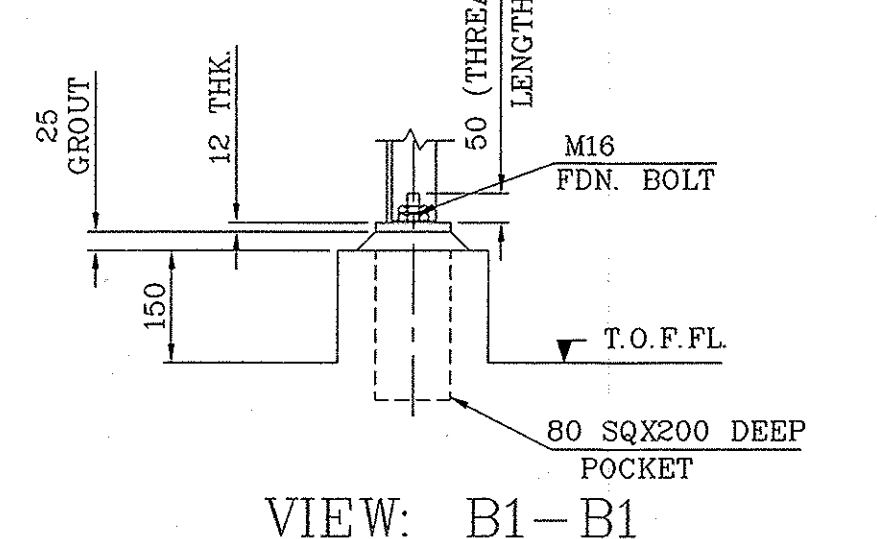


VIEW - Y-Y (REFER KEY PLAN)

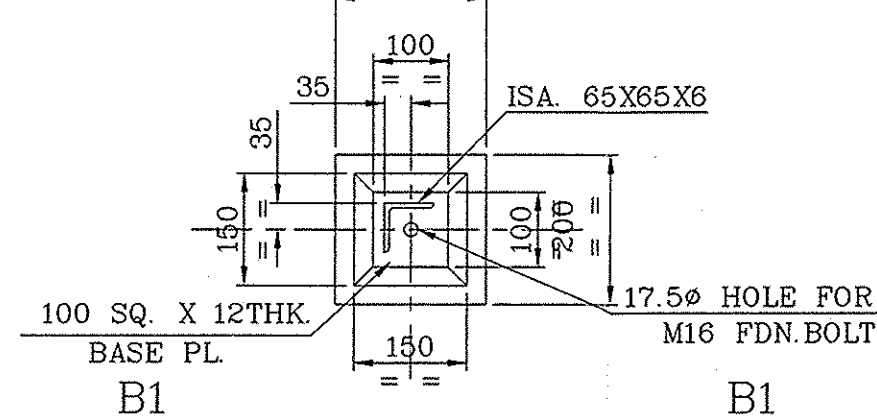
LOAD TABLE-5 (FOR BEND PULLEY FRAME) (MARKING REF SHEET 2 OF 2)

POINT	VERTICAL LOAD	HORIZONTAL LOAD IN T	FLOOR ELEVATION
	(IN T)	ALONG THE CONV	POINTS (FT)
F6	(+) 2.10	(±) 1.60	EL. (+) 5.700

CONSIDER ACROSS CONV. LOAD (±) 0.20 T FOR DESIGN AT F6



VIEW: B1-B1



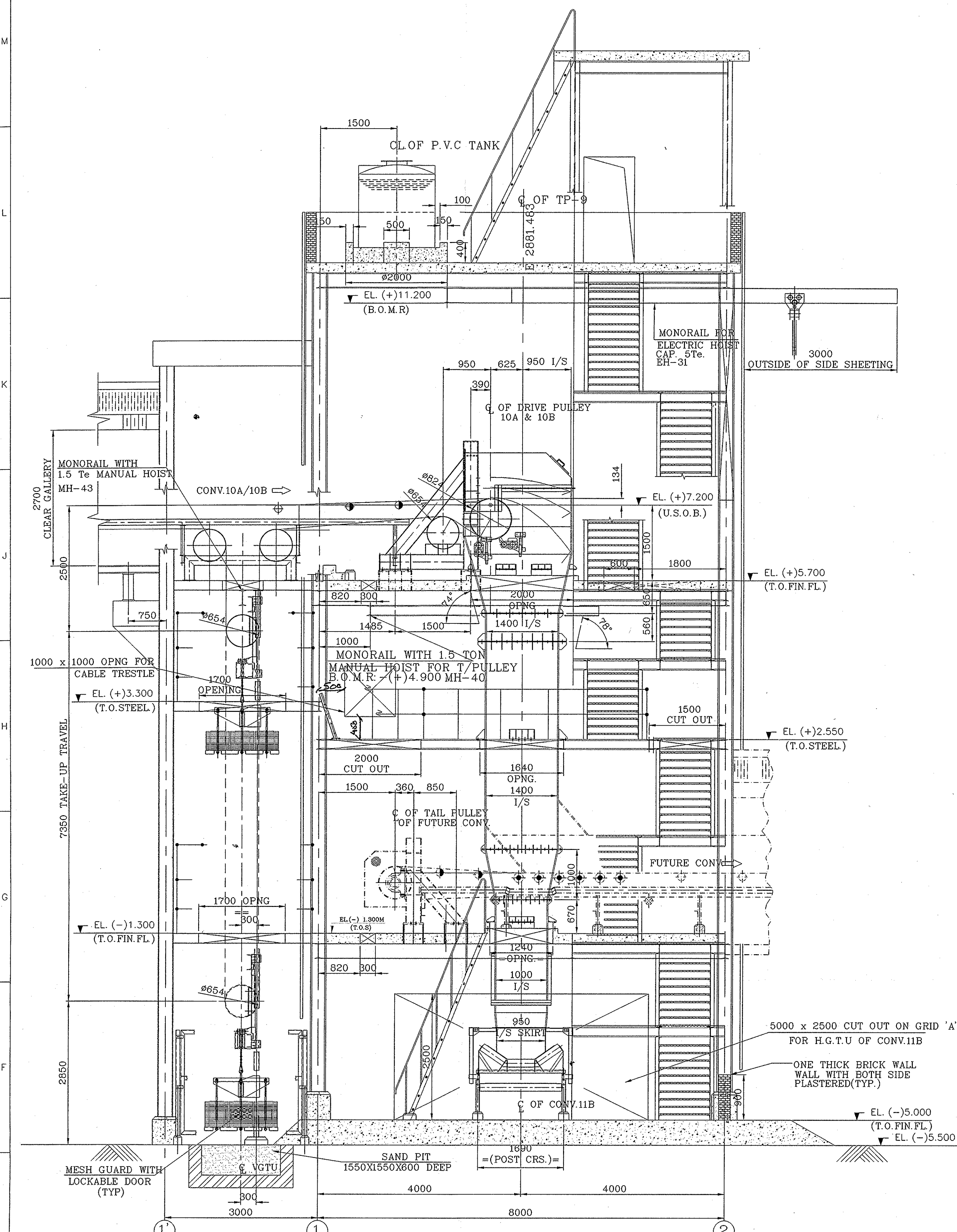
DETAIL - "B" (TYP.) (AS FDN MKD F7 & F8) (MARKING REF SHEET 2 OF 2)

VIEW - X-X (REFER KEY PLAN)

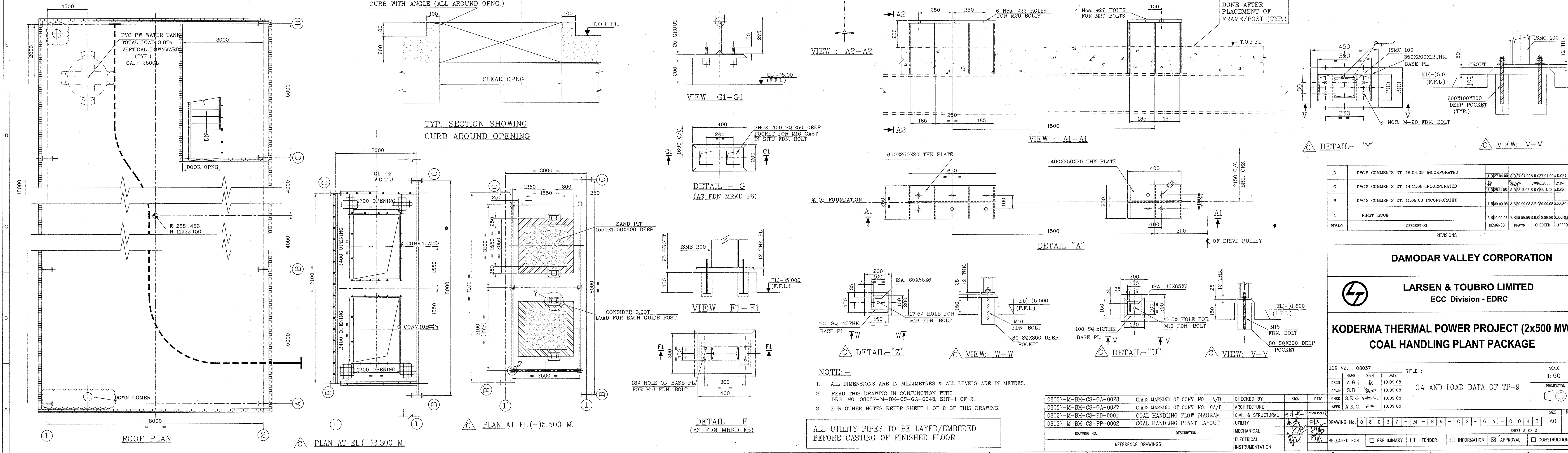
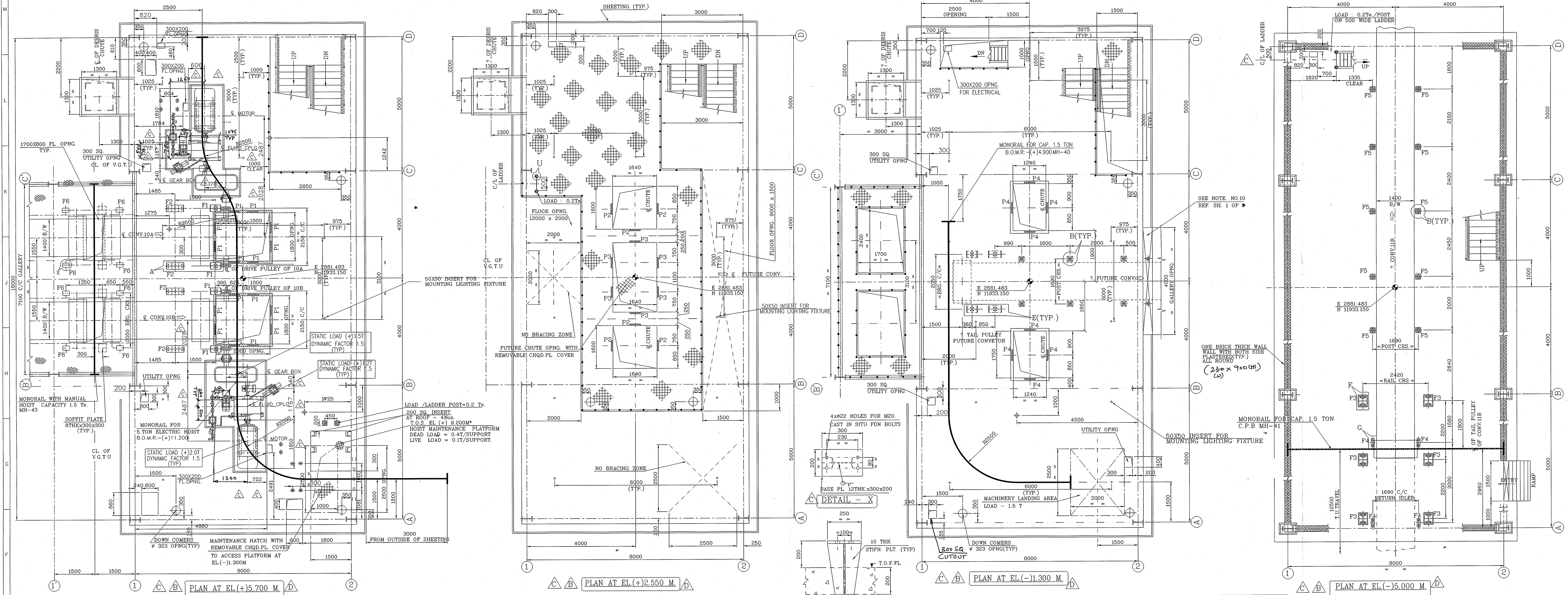
VIEW: E1-E1

VIEW: E2-E2

DETAIL "E" (AS FDN MKD F3 & F4) (SEE SH. 2 OF 2)



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NOTE:-
1. ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES.
2. READ THIS DRAWING IN CONJUNCTION WITH DRG. NO. 08037-M-BM-CS-GA-0043, SHT-1 OF 2.
3. FOR OTHER NOTES REFER SHEET 1 OF 2 OF THIS DRAWING.

ALL UTILITY PIPES TO BE LAYED/EMBEDDED BEFORE CASTING OF FINISHED FLOOR

REVNO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
D	DVC'S COMMENTS DT. 18.04.09 INCORPORATED				
C	DVC'S COMMENTS DT. 14.11.08 INCORPORATED				
B	DVC'S COMMENTS DT. 11.09.08 INCORPORATED				
A	FIRST ISSUE				

DAMODAR VALLEY CORPORATION

LARSEN & TOUBRO LIMITED
ECC Division - EDRC

KODERMA THERMAL POWER PROJECT (2x500 MW)
COAL HANDLING PLANT PACKAGE

JOB No.	08037	TITLE	GA AND LOAD DATA OF TP-9	SCALE	1:50
ISSN	A.B	DATE	10.09.08	PRODUCTION	
SRVN	S.B	DATE	10.09.08	REV	
APPD	A.K.C.	DATE	10.09.08	REV	
DRAWING No. 08037-M-BM-CS-GA-0043					
RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☒ APPROVAL ☐ CONSTRUCTION					