

ADDENDUM-4

DATE: 13-08-2021

Manual & Electrical Hoists for 2X800 MW Telangana Super Thermal Power Project-Karimnagar

Tender Ref: 77/21/6041/DSP

"Extension of due date for submission of offer"

Due date for submission of Offer has been extended to 20.08.2021

Submission of offer by 1.00 PM on 20.08.2021

Opening of Techno commercial bid at 4.00 PM on 20.08.2021

"Replies to bidder queries along with documents"

Replies to bidder queries along with documents as attached shall form part of Tender document

Any further addendum such issued carry part of the bidding documents and this will be available at the web site from where the original documents have been received / downloaded by the bidder. Hence, bidders are requested to visit the web site on regular basis.

For Further Queries if any, Contact:

For Commercial :

Sh. D S Pradeep Kumar Sarma
Manager / MM
BHEL-ISG,
Prof.C.N.R.Rao Circle,
Bangalore-560 012
Off: 080 2218 4520,
e-mail: dsp@bhel.in

For Technical :

Sh. Indrajit Dey
Sr Manager / PE / Mech
BHEL-ISG,
Prof.C.N.R.Rao Circle,
Bangalore-560 012
Off: 080 2218 4219,
e-mail : idey@bhel.in

Pre-Bid Queries/Clarifications for Manual & Electrical Hoists Package (R)

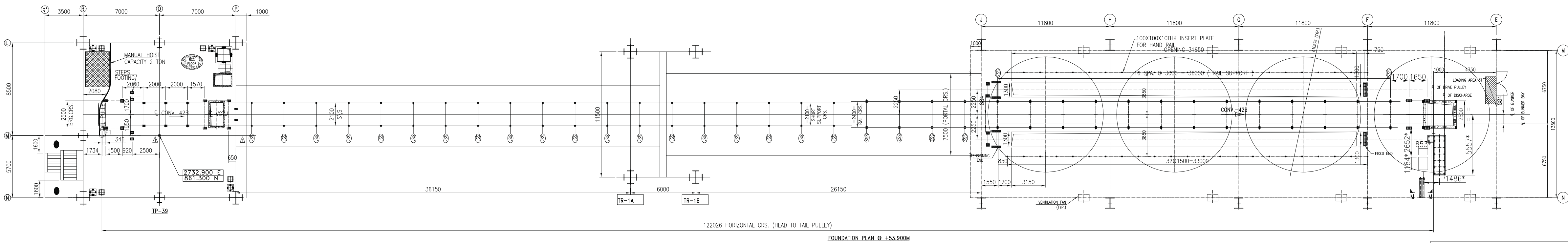
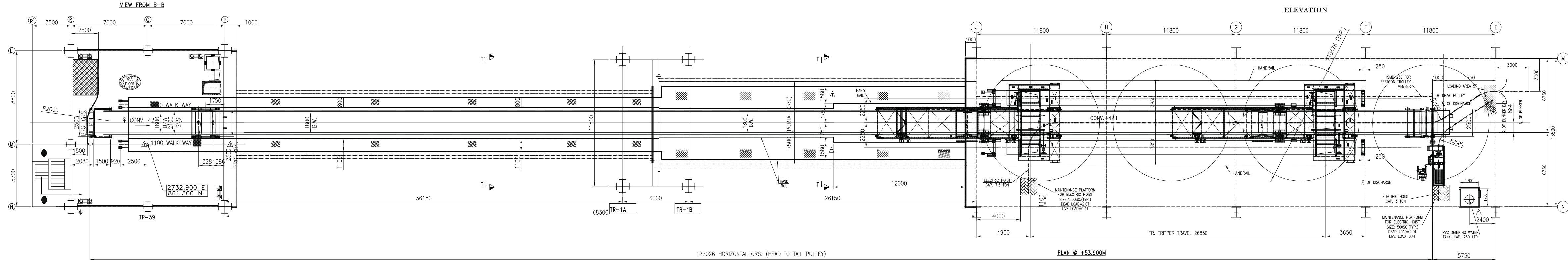
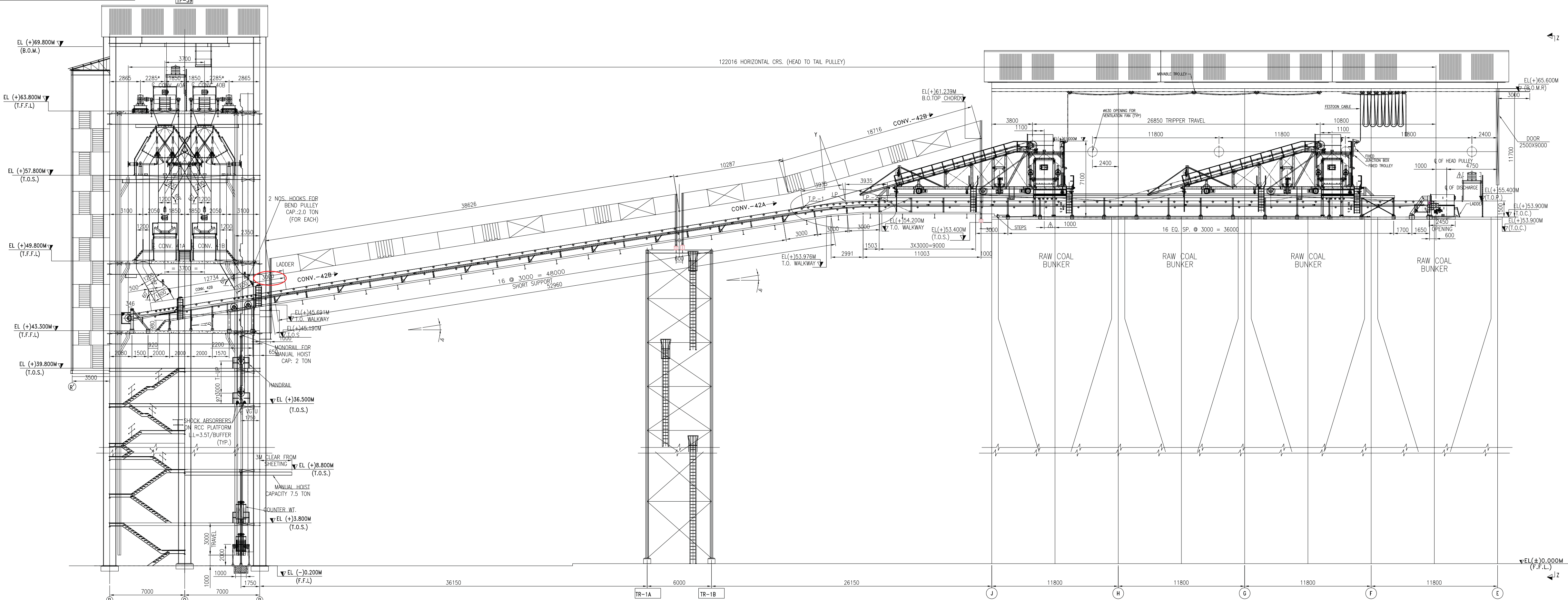
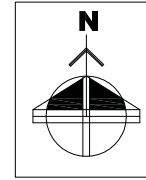
Project: NTPC - 2 x 800 MW Telangana STPP, KARIMNAGAR

Sl.No	Bidder Queries	BHEL Clarification
1	DSL – As per page 6 of 18 of Document Number IS-1-15-2003/HOIST(R) bus bar is required, however as per sheet 10 of 18 , Festoon Cable is required . We request you to kindly confirm the type of DSL Requirement .	Bidder to consider as per approved drawing attached with tender specifications- 9591-102-155-PVE-B-155-02. Festoon type arrangement as per NTPC NIT specifications to be considered.
2	As per Page Number 4 of 18 of Document Number IS-1-15-2003/HOIST(R) “ Engineering of most of the Equipment in the Junction Towers/Pump house/ Bunker floors have been completed, and the Mechanical GA drgs, corresponding Civil & structural Design of Junction Tower/ Pump house/ bunker floors have been frozen accordingly and under execution at site. However, major portion equipment / systems is yet to be supplied. So, while finalizing the Hoists, bidder shall ensure that the Hoists are in line with the engineering already done for Equipment as well as Junction Towers/ Major Buildings/pump houses and it is deemed that bidder has participated in this tender fully ensuring that there will not be any change in the civil & structural drg. Accordingly, bidder to do the interface and do the matching engineering.”, however from the drawings as provided in the tender, it is unclear as to what is requirement of headroom , side clearances or end approaches for a particular Hoist . We request you to kindly provide the details , or alternatively , if you recommend, we can provide this information in GA Drawing format for your evaluation during Technical Scrutiny, however, in this case this will be a point of deviation and cannot have a cost of withdraw as this is a technical issue	For more details - Bidder may pl. ref attached GA Drawings of Junction Towers/ Major Building/pump house.
3	Dead Load – Please confirm the scope of provision of Dead Load under the Hook at site for Load testing	Bidders to note - Test weights for the commissioning of hoists shall be arranged by BHEL's E&C contractor at site.
4	Speed – Please note that as per Point Number Page Number 13 of 18 of Document Number IS-1-15-2003/HOIST(R) , speed for Main Hoist is to be Max 6 MPM . Please note that we shall be providing speed below 6 MPM . Exact speed shall be provided in our Technical Offer (Which will be below 6 MPM). Please revert in case this is unacceptable.	Bidder to follow NIT Specification.
5	As per page Number 5 of 18 of Document Number IS-1-15-2003/HOIST(R) there is supervision for unloading and also supervision for shifting. Please note that as per page number 6 of 18, we are to include “minimum 15 (Fifteen) man days over 2 (two) visits for supervision of erection and testing of Electric and Manual Hoists “. Please confirm of these 15 days include the supervision for Unloading and Supervision for Shifting or do not include the same. Furthermore, please note that the term minimum is not clear. Please confirm if days are to be 15 or more than 15 (In case they are more than 15, please confirm the exact number of days)	Bidder to follow NIT Specification and also ref. price/unprice format and notes mentioned therein.
6	Spares – Please note that Part – F does not contain spares specific to Electric Hoists . We request you to kindly confirm the exact description and quantity of spares , in order to maintain all the bidders at par	Bidder to ref. Addendum 3 dated 06.08.2021 in this regard.



IS-1-GA-701-101-M007

DO NOT SCALE. IF IN DOUBT, ASK.



OWNER/CONSULTANT		NTPC Limited ENGINEERING DIVISION (A GOVERNMENT OF INDIA ENTERPRISE)	
PROJECT		TELANGANA SUPER THERMAL POWER PROJECT PHASE-I (2X800MW)	
BHRAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE		NAME SIGN DATE 31.01.17	
REV. ALTERED CHECKED APPROVED		NTPC DRAWING NO. 9591-102-155-PVM-B-029	
ZONE		DRAWING NO. IS-1-GA-701-101-M007	
SHEET NO. 2		NO. OF SHTS. 4	

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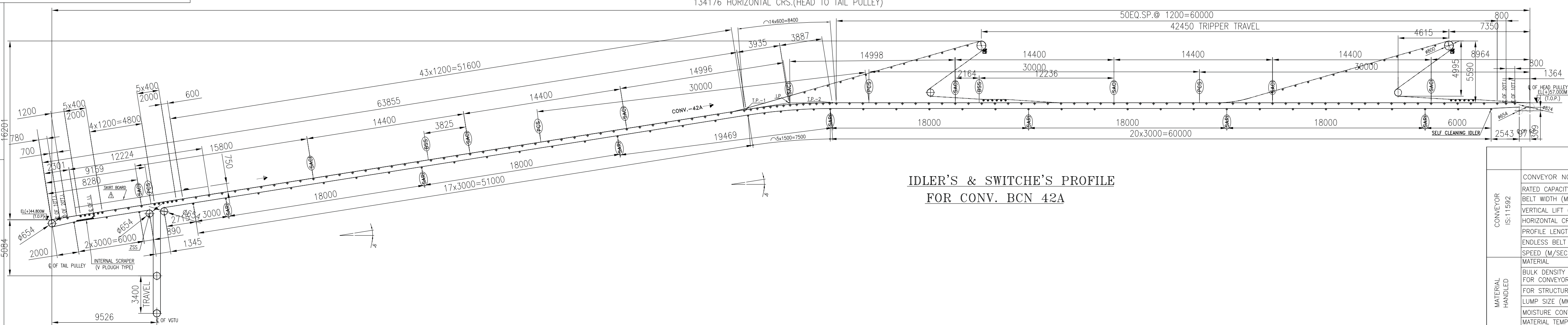
FORM-66.101

FIRST ANGLE PROJECTION

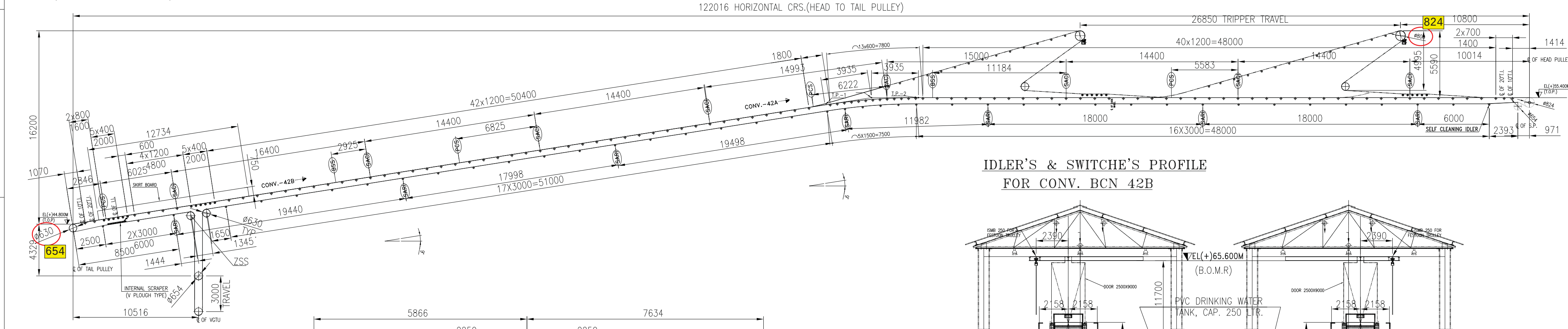
ALL DIMENSIONS ARE IN MM

200W-101-101-VG-1-SI
ON CHIMNEY

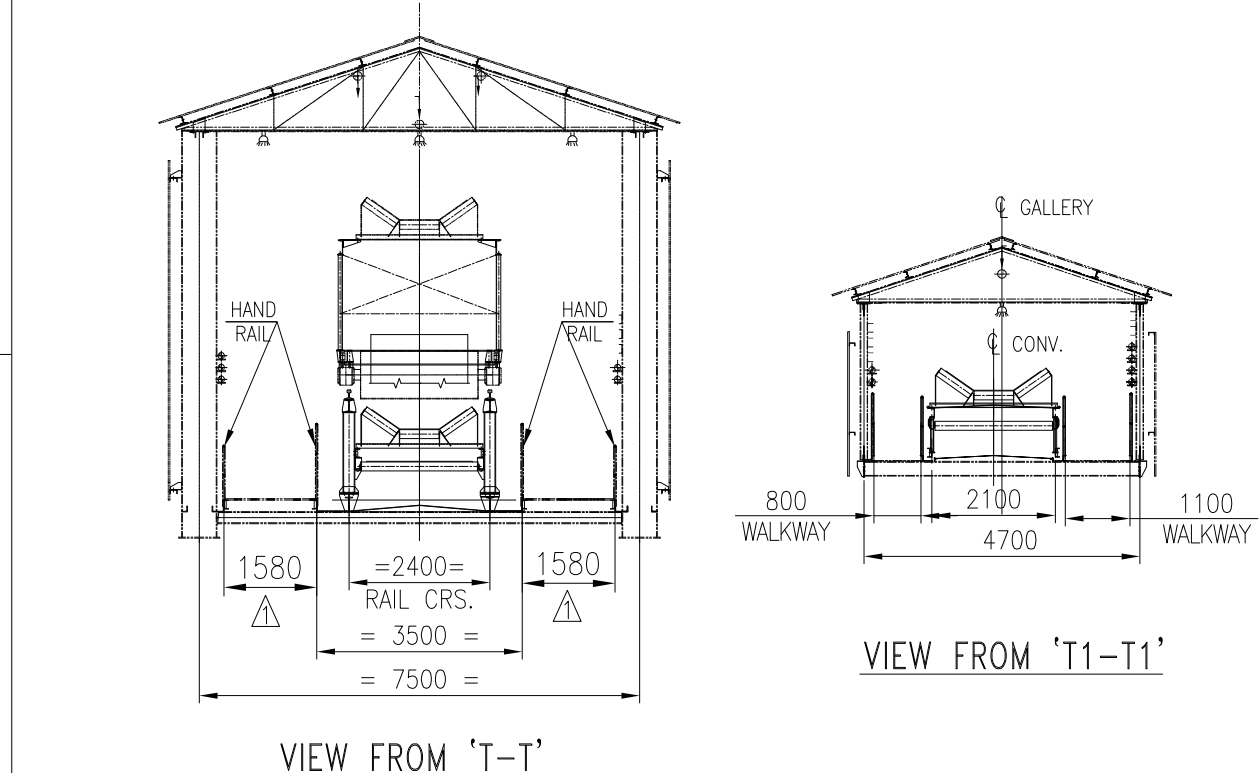
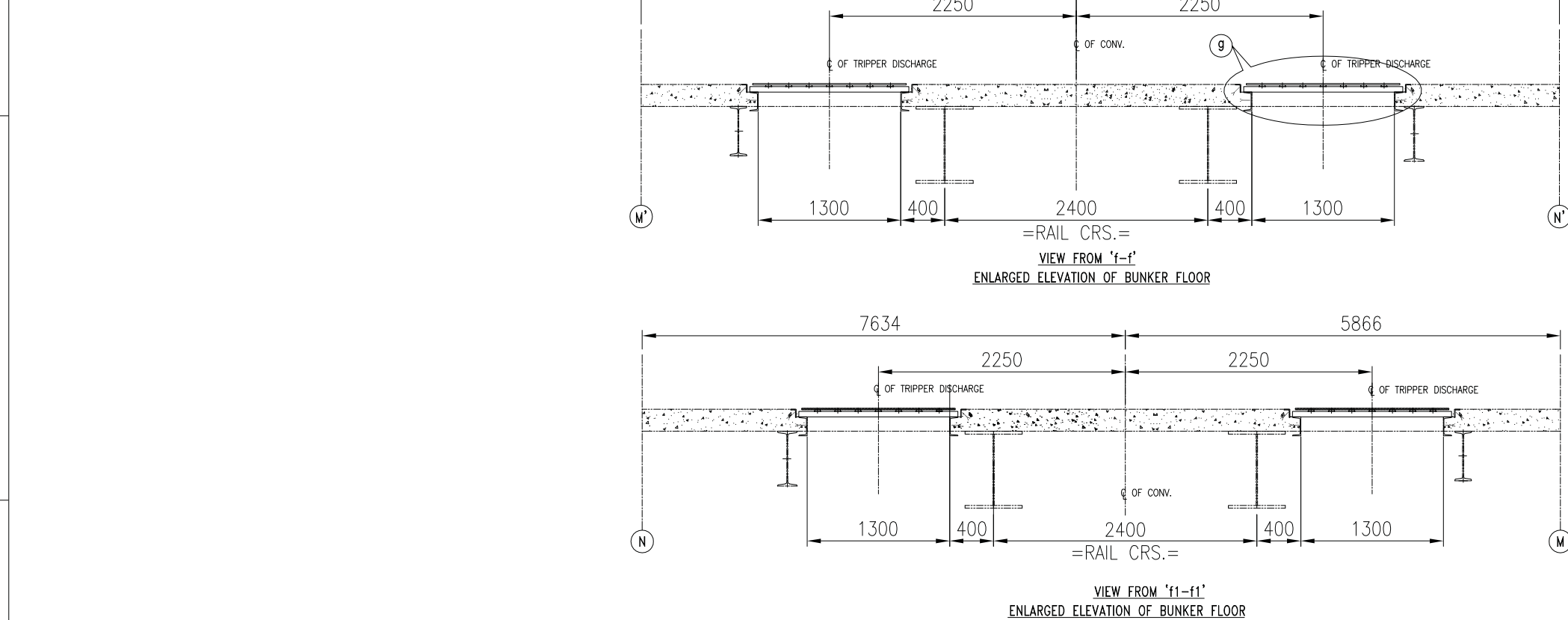
DO NOT SCALE. IF IN DOUBT, ASK.



IDLER'S & SWICHE'S PROFILE
FOR CONV. BCN 42A



IDLER'S & SWICHE'S PROFILE
FOR CONV. BCN 42B



VIEW FROM 'T-T'

VIEW FROM 'T1-T1'

LEGEND :-

H.P. = HEAD PULLEY	S.A.C.I. = SELF ALIGNING CARRYING IDLER
T.P. = TAIL PULLEY	S.A.R.I. = SELF ALIGNING RETURN IDLER
C.I. = CARRYING IDLER	P.C.S. = PULL CHORD SWITCH
T.I. = TRANSITION IDLER	B.S.S. = BELT SWAY SWITCH
R.I. = RETURN IDLER	Z.S.S. = ZERO SPEED SWITCH
I.I. = IMPACT IDLER	
W.P. = WORKING POINT	

DRG. NO.	DESCRIPTION
9591-102-155-PVM-B-009 & 9591-102-155-PVM-B-010	MECHANICAL GA & LOAD DATA OF TRANSFER POINT TP-38 & TP-39
9591-102-155-PVM-L-001	FLOW DIAGRAM OF COAL HANDLING PLANT
9591-102-102-PVM-B-111K	MAIN EQUIPMENT PLAN
9591-102-155-PVM-B-001	TYP. GALLERY CROSS-SECTIONS OF GALLERIES

- NOTES:-
- ALL DIMENSIONS ARE IN MM & LEVELS ARE IN METERS.
 - EL (+0.000M) IS CORRESPONDENCE TO RL 149.0M IN MAIN PLANT AREA.
 - AMBIENT TEMPERATURE FOR DERATING OF ELECTRICAL EQUIPMENT SHALL BE 50°C
 - STEPPED WALKWAY WITH ROD SHALL BE PROVIDED, IF CONVEYOR INCLINATION IS MORE THAN 10°.
 - PAINTING FOR TECHNOLOGICAL STRUCTURE AS PER APPROVED PAINTING SCHEDULE.
 - MONKEY LADDERS SHALL BE PROVIDED AS PER TECHNICAL SPECIFICATIONS FOR TRESTLES IN BHEL SCOPE.
 - FOR DETAIL OF TAKEUP ARRGT ITS HANDLING REFER REFER MECH. GA OF TP-38 & TP-39 DRG NO.
 - FOR MECHANICAL LOAD DETAIL REFER SEPARATE MECHANICAL LOAD DATA DRAWING OF TP-38/39 DRAWING NO.9591-102-155-PVM-B-009 / 9591-102-155-PVM-B-010 RESPECTIVELY.
 - VGU GUIDE TO BE SUPPORTED AT EVERY MAINTENANCE PLATFORM.
 - THE DRIVE DIMENSIONS ARE INDICATIVE ONLY AS MARKED * & SHALL BE FINALIZED AFTER GETTING THE DRIVE COMPONENT DROS.
 - GALLERY SUPPORTING TRESTLE TYPES AND TRESTLE LOCATIONS INDICATED IN THIS DRG. ARE TENTATIVE AND FINALLY THEY SHALL BE AS PER STRUCTURAL DROS.

TENTATIVE LOAD DATA IN TONNES PER LEG:-

CONV. SUPPORTS									
TOWING AND LOAD		CONV. BCN-42A/B						SS2 AND SS3 LOAD (INCLUDING WHEEL LOAD)	LOAD ON BUFFER PER LEG IN TONNS:-
		HF1	HF2	DB1	DB2	DB3	SS1		
DEAD LOAD		0.25	3.50	0.5	0.6	0.7	0.8		
LIVE (LOAD)		0.10	0.10	0.2	0.2	0.2	0.96		
tot (incl Starting Cond)		5.00	5.00	—	—	—	—	23T CONSIDERED IMPACT FACTOR 1.25	Hx = 0.6 Vyt = 1.3
tot (incl Normal Cond)		4.20	4.20	—	—	—	—		
tot (incl Shocking Cond)		7.30	7.30	—	—	—	—		
Wt		tot (incl Normal Cond)	6.30	—	—	—	—		

JOB No.		IS-1-15-2003		
STATUS OF DRAWING				
DISTRIBUTION OF PRINTS		QTY.		
REV.		NAME	SIGN	DATE
	ALTERED			
	CHECKED			
	APPROVED			
ZONE				

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NTPC

ENGINEERING DIVISION
(A GOVERNMENT OF INDIA ENTERPRISE)

PROJECT
TELANGANA SUPER THERMAL POWER PROJECT
PHASE-I (2X800MW)

BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

NAME	SIGN	DATE	NO OF
DRN.	DUT	31.01.17	VAR
CHD.	MNK	31.01.17	
APPD.	RSP/VSD	31.01.17	

SCALE
N.T.S.

WEIGHT(Kgs.)
NTPC DRAWING NO.
9591-102-155-PVM-B-029

DIRECTORY :
FILE NO. :
TITLE :
GA OF 1st/3rd BUNKER CONVEYOR
(GA OF 2nd BUNKER TP)

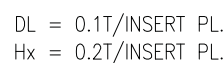
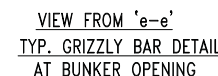
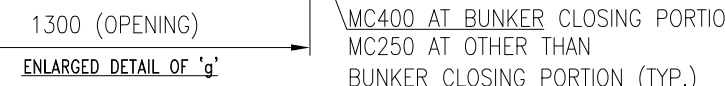
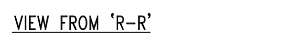
DRAWING NO.
IS-1-GA-701-101-M007

SHEET NO. 3
NO.OF SHTS. 4

REV. 01

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TRIPPER LOAD DATA

OWNER/CONSULTANT:

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NTPC

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ENGINEERING DIVISION
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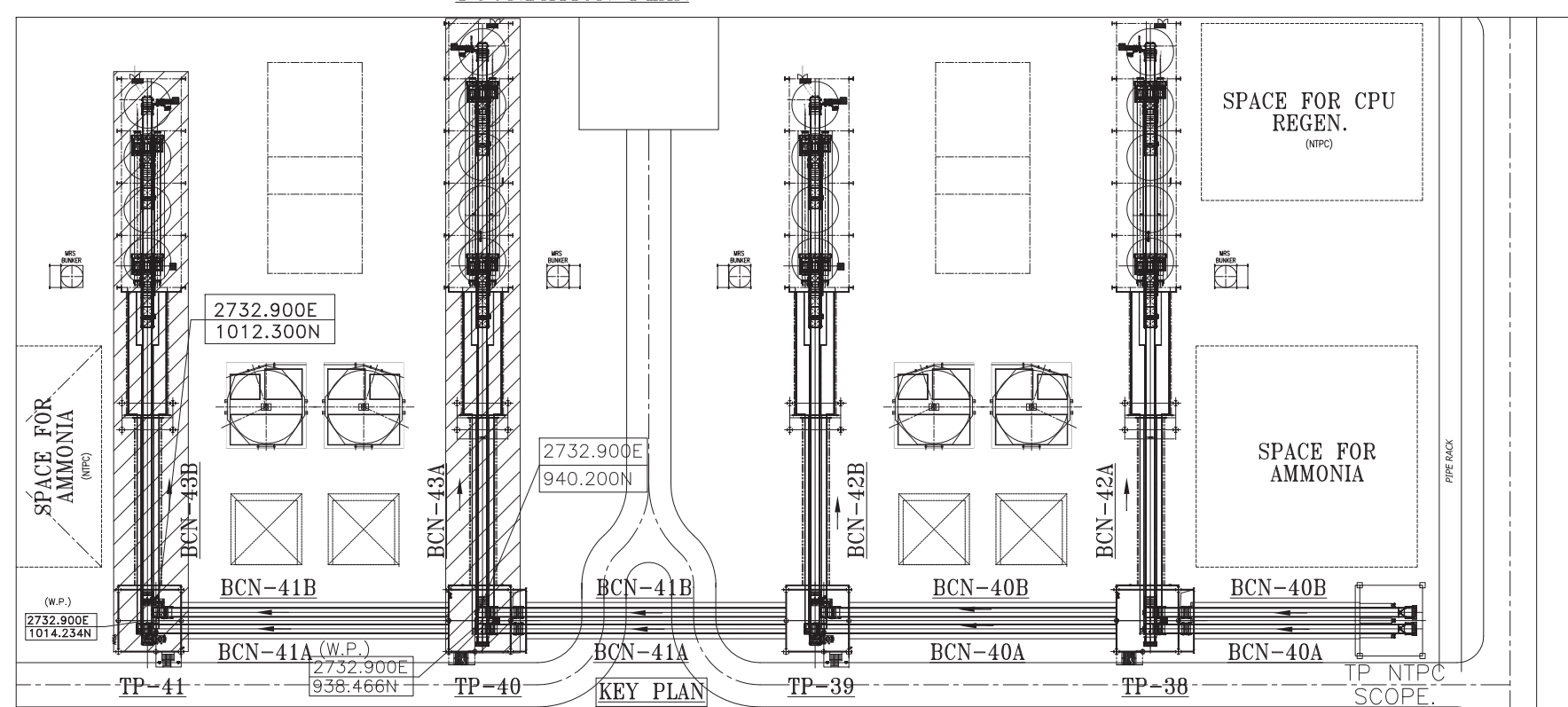
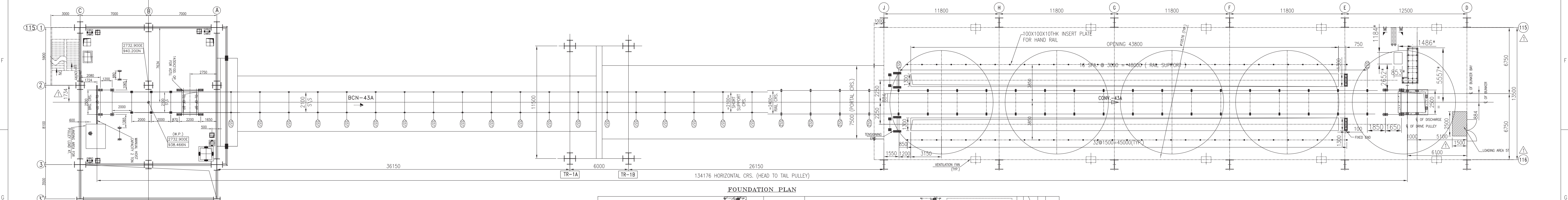
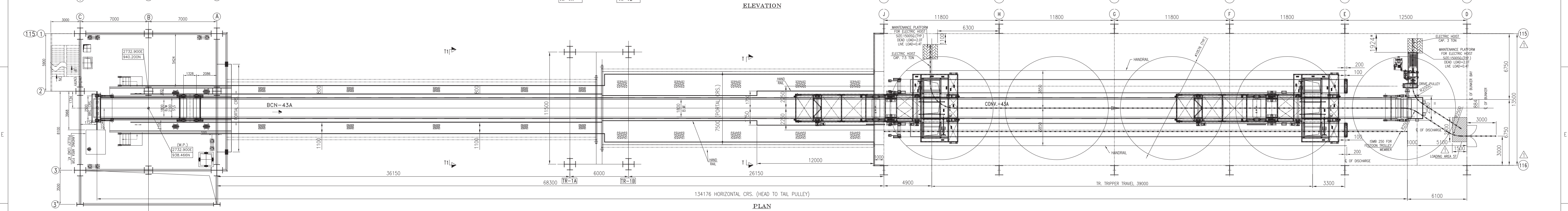
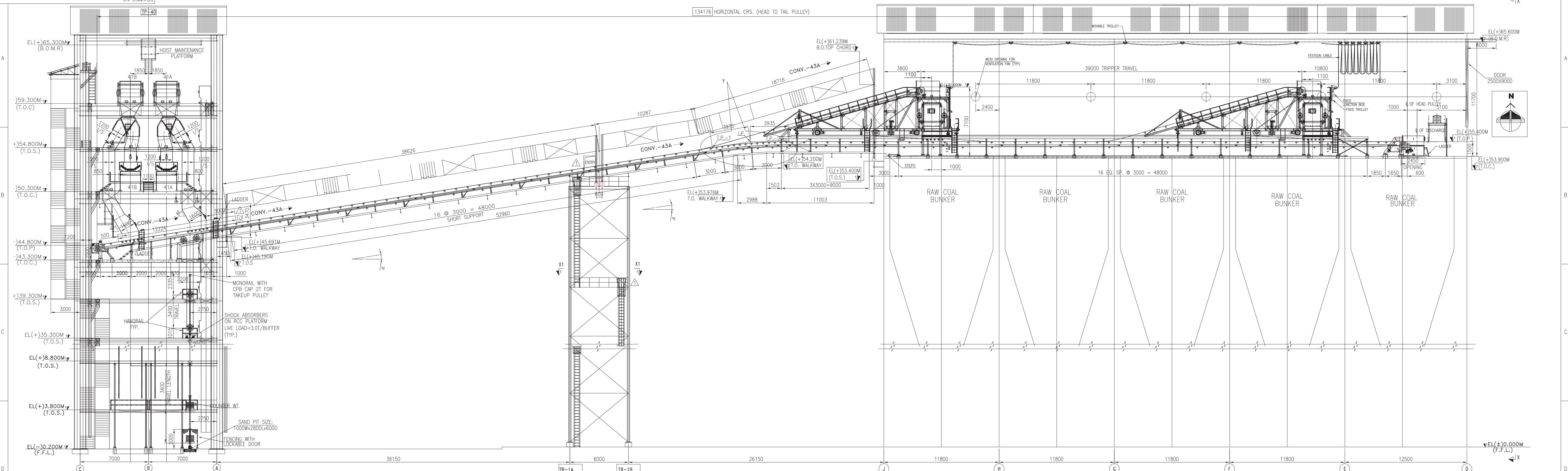
PROJECT TELANGANA SUPER THERMAL POWER PROJECT
PHASE-I (2X800MW)

 BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE		NAME	SIGN	DATE
	DRN.	DUT		31.01.17
	CHD.	MNK		31.01.17

		APPD.	RSP/VSD		31.01.17
DIRECTORY :		SCALE	WEIGHT(Kgs.)	NTPC DRAWING NO.	
FILE NO. :		N.T.S.		9591-102-155-PVM-B-029	
				ITEM NO.	

TITLE :	GA OF 1st/3rd BUNKER CONVEYOR (GA OF 2nd BUNKER TP)	DRAWING NO. IS-1-GA-701-101-M007
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JOB No.		IS-1-15-2003		
STATUS OF DRAWING				
DISTRIBUTION OF PRINTS				QTY
REV.		NAME	SIGN	DATE
	ALTERED			
	CHECKED			
	APPROVED			
ZONE				



OWNER/CONSULTANT



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PROJECT

CT
TELANGANA SUPER THERMAL POWER PROJECT
PHASE-I (2X800MW)

PHASE-I (2X800MW)


BHARAT HEAVY ELECTRICALS LTD
 INDUSTRIAL SYSTEMS GROUP, BANGALORE

INDUSTRIAL SYSTEMS GROUP, BANGALORE

	NAME	SIGN	DATE	NO.OF VAR
DRN.	DUT		16.03.17	
CHD.	MNK		16.03.17	
APPD.	RSP/VSD		16.03.17	

DRN.	DUT	DATE
CHD.	MNK	16.03.17
APPD.	RSP/VSD	16.03.17

APPD.	RSP/VSD		16.03.17
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(Kgs.)	NIPC DRAWING NO.	ITEM NO.
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DIRECTORY :

FILE NO. :

SCALE

N.T.S.

	WEIGHT(Kgs.)
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100

REVISED	DRAWING NO.
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TITLE :

GA OF 3rd/4th BUNKER CONVEYOR
(CONV.-43A/B)

(CONV.-43A/B

	DRAWING NO.
	IS-1-GA-701-101-M008

IS-1-GA-701-101-M008

SHEET NO.	1	NO.OF SHTS.	4
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SIZE-A1

JOB No.		IS-1-15-2003		
STATUS OF DRAWING				
DISTRIBUTION OF PRINTS				QTY.
REV.		NAME	SIGN	DATE
	ALTERED			
	CHECKED			
	APPROVED			
ZONE				

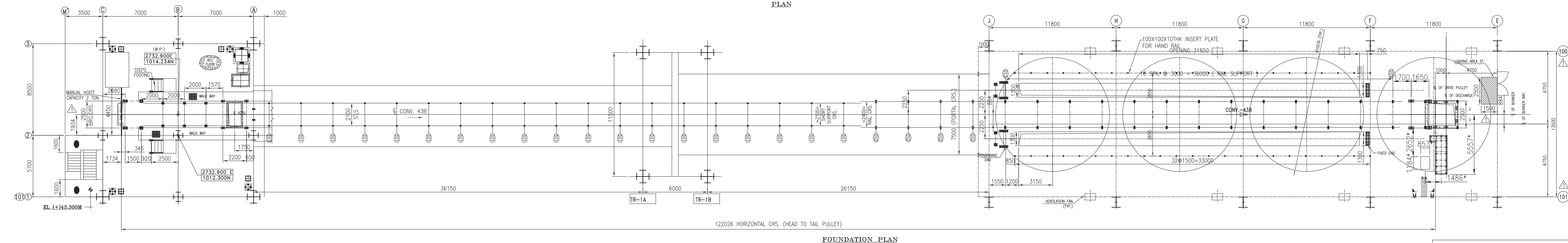
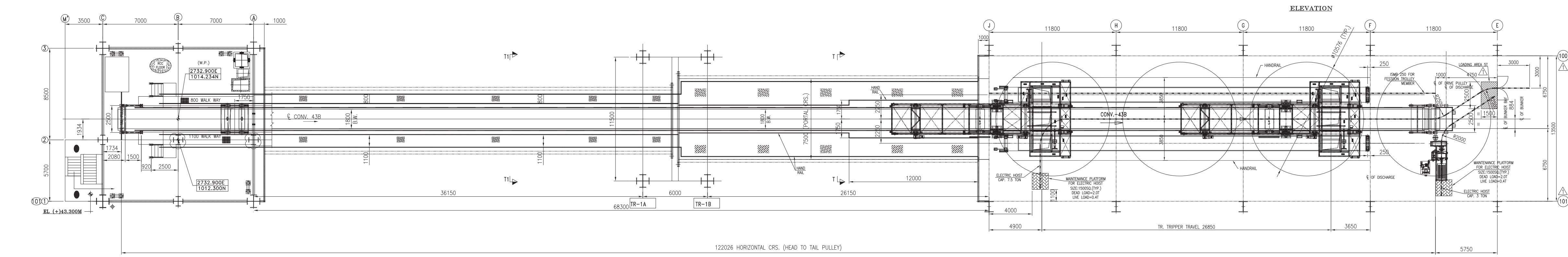
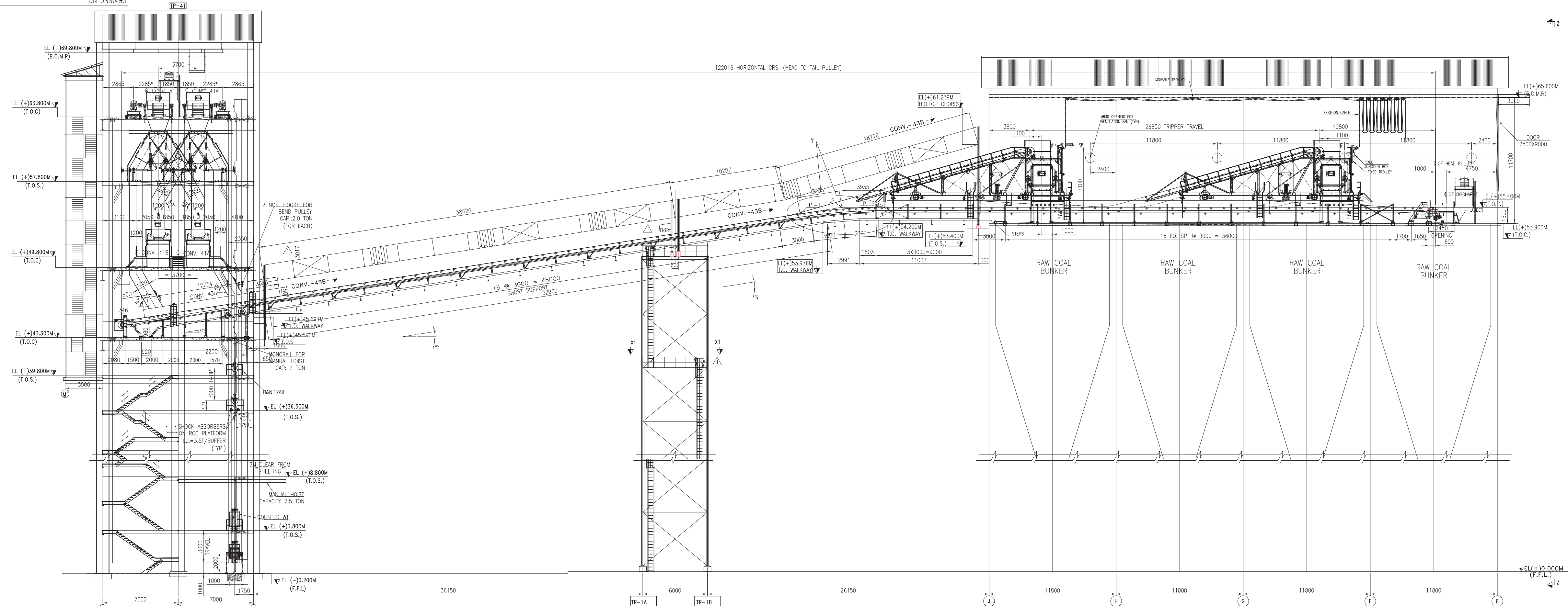
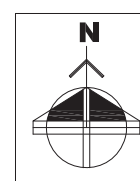
NO.
STATUS OF DRAWING

DISTRIBUTION OF PRINTS	QTY.
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PROJECT

TELANGANA SUPER THERMAL POWER PROJECT
PHASE-I (2X800MW)

PHASE-I (2X800MW)

JOB No.		IS-1-15-2003		PROJECT		TELANGANA SUPER THERMAL POWER PROJECT									
STATUS OF DRAWING						PHASE-I (2X800MW)									
DISTRIBUTION OF PRINTS				QTY.				BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE		NAME		SIGN	DATE	NO OF VAR	
										DRPL	DUT			16.03.17	
										CHD.	MNK			16.03.17	
										APPD.	RSP/VSD			16.03.17	
REV.			NAME	SIGN	DATE	DIRECTORY :		SCALE N.T.S.	WEIGHT(Kgs.)	NTPC DRAWING NO.			ITEM NO.	NO OF ITEMS	
	ALTERED									9591-102-155-PVM-B-030					
	CHECKED														
ZONE	APPROVED					FILE NO. :		TITLE : GA OF 3rd/4th BUNKER CONVEYOR (CONV.-43A/B)	DRAWING NO.			IS-1-GA-701-101-M008	REV.		

800W-101-102-VG-I-SI

ON 5MMVSD

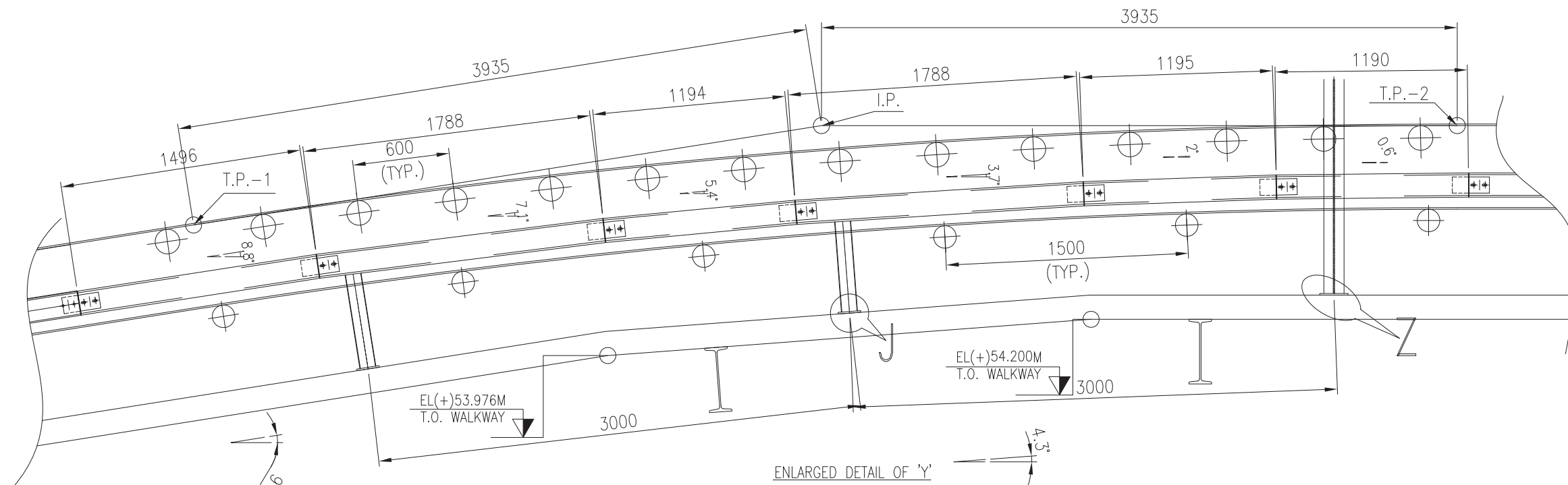
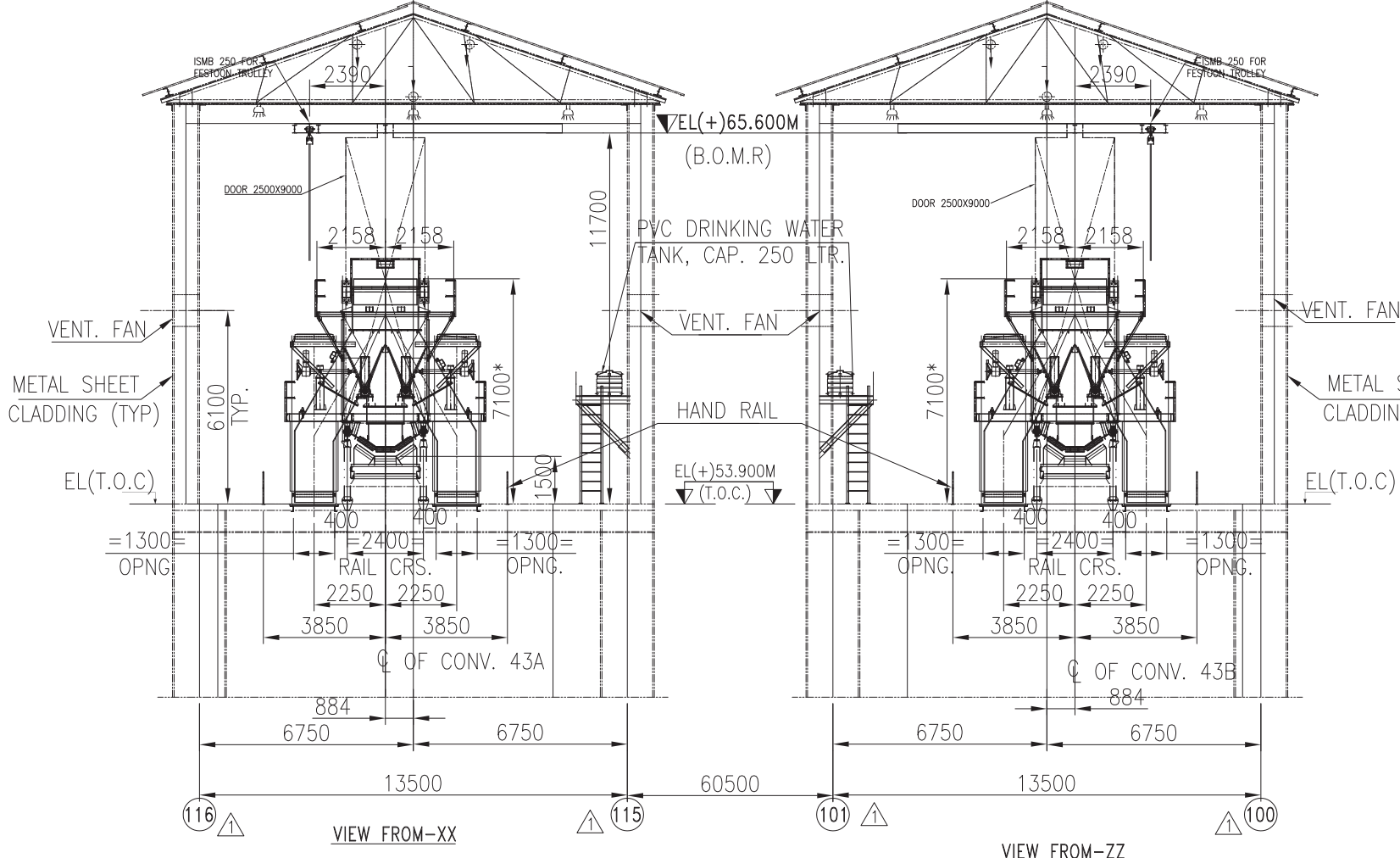
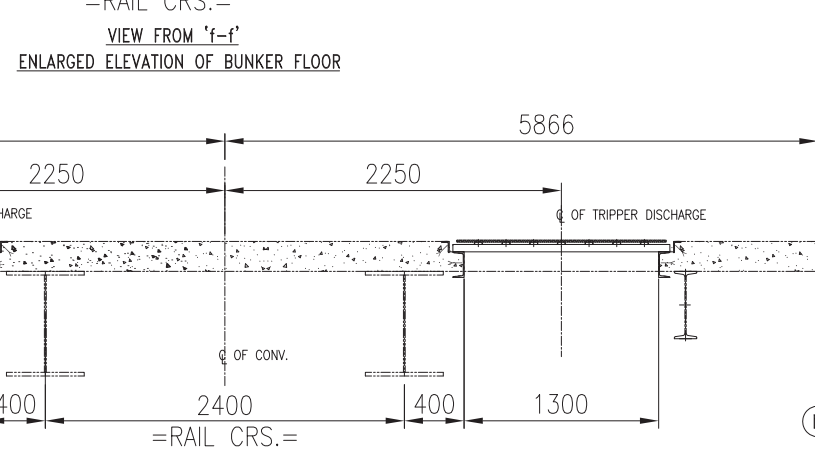
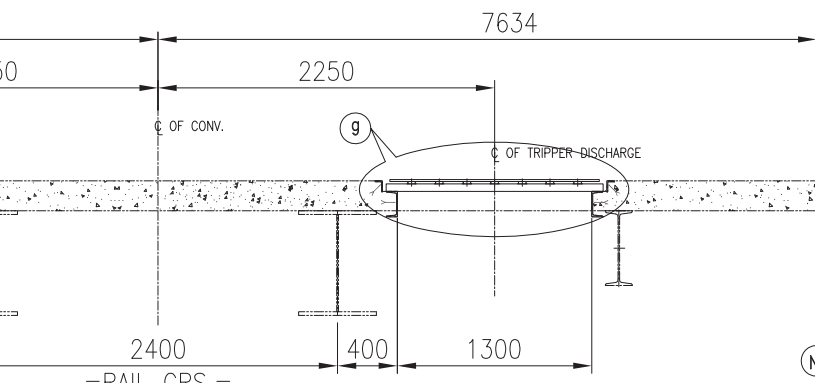
134176 HORIZONTAL CRS.(HEAD TO TAIL PULLEY)

50EQ.SP.@ 1200=60000

42450 TRIPPER TRAVEL

IDLER'S & SWITCHES PROFILE
FOR CONV. BCN 43A

122016 HORIZONTAL CRS.(HEAD TO TAIL PULLEY)

IDLER'S & SWITCHES PROFILE
FOR CONV. BCN 43B

TECHNICAL SPECIFICATION		QTY FOR EACH	
CONVEYOR		BC-43A	BC-43B
CONVEYOR NO/EQUIPMENT NO.	BC-43A/43B	—	—
RATED CAPACITY/DESIGN CAPACITY (T.P.H)	2400/2640	—	—
BELT WIDTH (MM)/TROUGHING ANGLE	1800 / 35 DEG	—	—
VERTICAL LIFT (MM)	16200/16200	—	—
HORIZONTAL CRS. (MM)	134176/122016	—	—
PROFILE LENGTH (MM)	148547/137347	—	—
ENDLESS BELT LENGTH(CONSIDERING SAG) (MM)	298232/273912	—	—
SPEED (M/SEC.)	3.2	—	—
MATERIAL	COAL	—	—
BULK DENSITY FOR CONVEYOR SIZING (TON/CU.M)	0.8	—	—
FOR STRUCTURAL DESIGN (TON/CU.M)	1.1	—	—
LUMP SIZE (MM)	(-)20	—	—
MOISTURE CONTENT	20%	—	—
MATERIAL TEMP.	AMBIENT (MAX. 50°)	—	—
TYPE MAKE	N/N 1250/4 GRADE-FR (AS PER CANADIAN BUREAU OF MINES) /AS PER APPROVED VENDOR	—	—
TOP COVER THICKNESS (MM)	5	—	—
BOTTOM COVER THICKNESS (MM)	2	—	—
BELT TENSION (N)	T1-131629,T2-48077,T3-46669,T4-83551	—	—
TYPE OF JOINT	VULCANIZED	—	—
PULLEYS (S&S31)		MAKE : NTC APPROVED	
DRIVE		DIAMETER MM/NO.	
TRIPPER DISCHARGE		1 No. 1 No.	
TAIL		1 No. 1 No.	
TAKE-UP		1 No. 1 No.	
BEND		5 Nos. 5 Nos.	
SNUB		1 No. 1 No.	
DRIVE PULLEY		—	
ALL OTHER PULLEYS		—	
CARRYING		IDLER (S&S31)	
3 ROLL 10' TRANSITION IDLERS		2 Nos. 2 Nos.	
3 ROLL 20' TRANSITION IDLERS		2 Nos. 2 Nos.	
3 ROLL 35' CARRYING IDLERS		103 Nos. 92 Nos.	
3 ROLL 35' IMPACT IDLERS		12 Nos. 12 Nos.	
3 ROLL 35' SELF ALIGNING CARRYING IDLERS		09 Nos. 08 Nos.	
RETURN		IDLER (S&S31)	
1 ROLL SELF CLEANING RETURN IDLERS		1 No. 1 No.	
SINGLE ROLL RETURN IDLER		38 Nos. 35 Nos.	
SINGLE ROLL SELF ALIGNING RETURN IDLER		07 Nos. 07 Nos.	
DEFLECTOR ROLLER		01 No. 01 No.	
MOTOR		TYPE	
TEFC SORREL CAGE INDUCTION MOTOR		1 No. 1 No.	
REDUCER		TYPE	
APPROVED VENDOR		—	
DRIVE DETAILS		MODEL NO/MAKE	
HOLD BACK		YES	
RATIO		DDE	
MECHANICAL RATING KW		DDE	
BRAKE		ELECTRO HYDRAULIC THRUSTOR TYPE	
COUPLING		TYPE/MAKE	
APPROVED VENDOR		1 No. 1 No.	
TAKE UP		TYPE/MAKE	
APPROVED VENDOR		1 No. 1 No.	
TAKE UP		TYPE	
VGTU		—	
TRAVEL (MM)		3400	
RCC COUNTER WEIGHT (N KG)		7800	
INTERNAL SCRAPER TYPE/MAKE		V-PLOUGH TYPE, MAKE : APPROVED VENDOR	
EXTERNAL SCRAPER TYPE/MAKE		PRIMARY WITH SPRUNG BLADE MAKE: APPROVED VENDOR	
SECONDARY		SECONDARY WITH TORSION ARM MAKE: APPROVED VENDOR	
SKIRT BOARD		SHALL BE MIN. 3M AHEAD OF FRONT EDGE OF CHUTE AND MIN.500MM BEYOND REAR EDGE OF CHUTE WITH 10THK TRISCALE/COARSE SIDE PLATE AND TOP PLATE COVER WITH 6MMTHK MS PLATE MAKE: APPROVED VENDOR	
DECK BOARD		3MM THK. MS CONTINUOUS PLATE	
HEAD FRAME, TAIL FRAME & DRIVE BASE FRAME		DDE	
SEAL PLATE		12 G STEEL	
STRINGER		MC 150	
SHORT SUPPORT		MC 100	
DISCHARGE & FEED CHUTE		20MM THICK TRISCALE/EQUIV.ON CONTACT SURFACE & 10MM THICK M.S. PLATE ON NONCONTACT SURFACE	
DISCHARGE HOOD		6MM THICK M.S. PLATE FOR CONVEYOR HOOD	
PULL CORD SWITCH /LOCATION/MAKE		4MM THK MS PLATE WITH STIFFENERS, HINGED & CASHEATED INSPECTION DOOR	
Belt Sway Switch/LOCATION/MAKE		30 M SPACING (BOTH THE SIDE OF CONVEYOR) — APPD. VENDOR	
ZERO SPEED SWITCH/LOCATION/MAKE		50 M SPACING (MINIMUM 2 PAIR) — APPD. VENDOR	
ONE FOR EACH CONVEYOR MOUNTED AT BEND PULLEY (GTU) — APPD. VENDOR		1 No. 1 No.	

OWNER/CONSULTANT

**NTPC Limited**
ENGINEERING DIVISION
(A GOVERNMENT OF INDIA ENTERPRISE)

PROJECT

TELANGANA SUPER THERMAL POWER PROJECT
PHASE-I (2X800MW)

BHARAT HEAVY ELECTRICALS LTD.		NAME		SIGN		DATE		NO OF	
INDUSTRIAL SYSTEMS GROUP, BANGALORE		DRN.		OUT		16.03.17		VAR	
		CHD.		MNC		16.03.17			
		APPD.		RSP/VSD		16.03.17			
REV.		NAME		SIGN		DATE		NO OF	
ALTERED									
CHECKED									
APPROVED									
ZONE		TITLE		SCALE		WEIGHT(KgS)		REV.	
		GA OF 3rd/4th BUNKER CONVEYOR (CONV.-43A/B)		N.T.S.					
		SHEET NO. 3		NO.OF SHTS. 4					

LEGEND :-	
H.P. = HEAD PULLEY	S.A.C.I. = SELF ALIGNING CARRYING IDLER
T.P. = TAIL PULLEY	S.A.R.I. = SELF ALIGNING RETURN IDLER
C.I. = CARRYING IDLER	P.C.S. = PULL CHORD SWITCH
T.I. = TRANSITION IDLER	B.S.S. = BELT SWAY SWITCH
R.I. = RETURN IDLER	Z.S.S. = ZERO SPEED SWITCH
I.I. = IMPACT IDLER	
W.P. = WORKING POINT	

DRG. NO.	DESCRIPTION
9591-102-155-PVM-B-009 & 9591-102-155-PVM-B-010	MECHANICAL GA & LOAD DATA OF TRANSFER POINT TP-38 & TP-39
9591-102-155-PVM-L-001	FLOW DIAGRAM OF COAL HANDLING PLANT
9591-102-102-PVM-B-111K	MAIN EQUIPMENT PLAN
9591-102-155-PVM-B-001	TYP. GALLERY CROSS-SECTIONS OF GALLERIES

NOTES:-

- ALL DIMENSIONS ARE IN MM & LEVELS ARE IN METERS.
- EL. (±0.000M) IS CORRESPONDENCE TO RL 149.0M IN MAIN PLANT AREA.
- AMBIENT TEMPERATURE FOR DERATING OF ELECTRICAL EQUIPMENT SHALL BE 50°C
- STEPPED WALKWAY WITH ROD SHALL BE PROVIDED, IF CONVEYOR INCLINATION IS MORE THAN 10°.
- PAINTING FOR TECHNOLOGICAL STRUCTURE AS PER APPROVED PAINTING SCHEDULE.
- MONKEY LADDERS SHALL BE PROVIDED AS PER TECHNICAL SPECIFICATIONS FOR TRESTLES IN BHEL SCOPE.
- FOR DETAIL OF TAKEUP ARRGT ITS HANDLING REFER REFER MECH. GA OF TP-40 & TP-41 DRG NO.
- FOR MECHANICAL LOAD DETAIL REFER SEPARATE MECHANICAL LOAD DATA DRAWING OF TP-40/41 DRAWING NO.9591-102-155-PVM-B-011 / 9591-102-155-PVM-B-012 RESPECTIVELY.
- VGTU GUIDE TO BE SUPPORTED AT EVERY MAINTENANCE PLATFORM.
- THE DRIVE DIMENSIONS ARE INDICATIVE ONLY AS MARKED * & SHALL BE FINALIZED AFTER GETTING THE DRIVE COMPONENT DRGS.
- GALLERY SUPPORTING TRESTLE TYPES AND TRESTLE LOCATIONS INDICATED IN THIS DRG. ARE TENTATIVE AND FINALLY THEY SHALL BE AS PER STRUCTURAL DRGS.

TENTATIVE LOAD DATA IN TONNES PER LEG:-

CONV. SUPPORTS		CONV. BCN-43A/B		SS2 AND SS3 LOAD (INCLUDING WHEEL LOAD)		LOAD ON BUFFER PER LEG IN TONS:-	
HP1		HP2 DB1 DB2 DB3 SS1		23T CONSIDERED		Hx = 0.6	
DEAD LOAD		0.25 3.50 0.5 0.6 0.7 0.8		IMPACT FACTOR 1.25		Vyz = 1.3	
LIVE LOAD		0.10 0.10 0.2 0.2 0.2 0.2					
Hx		5.00 5.00					
Hx		4.20 4.20					
Hx		7.30 7.30					
Hx		6.30 6.30					

JOB No. IS-1-15-2003

STATUS OF DRAWING

DISTRIBUTION OF PRINTS

QTY.

REV.

ALTERED

CHECKED

APPROVED

NAME

SIGN

DATE

ZONE

DIRECTORY :

FILE NO. :

SCALE

N.T.S.

WEIGHT(KgS)

NTPC DRAWING NO.

ITEM NO.

REV.

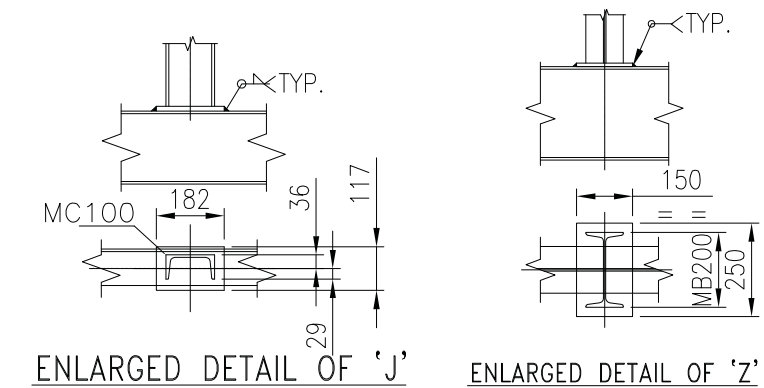
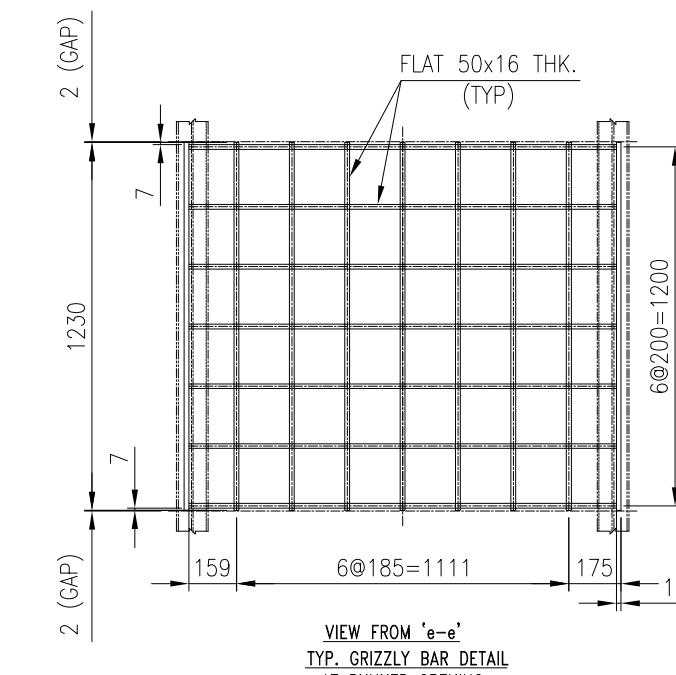
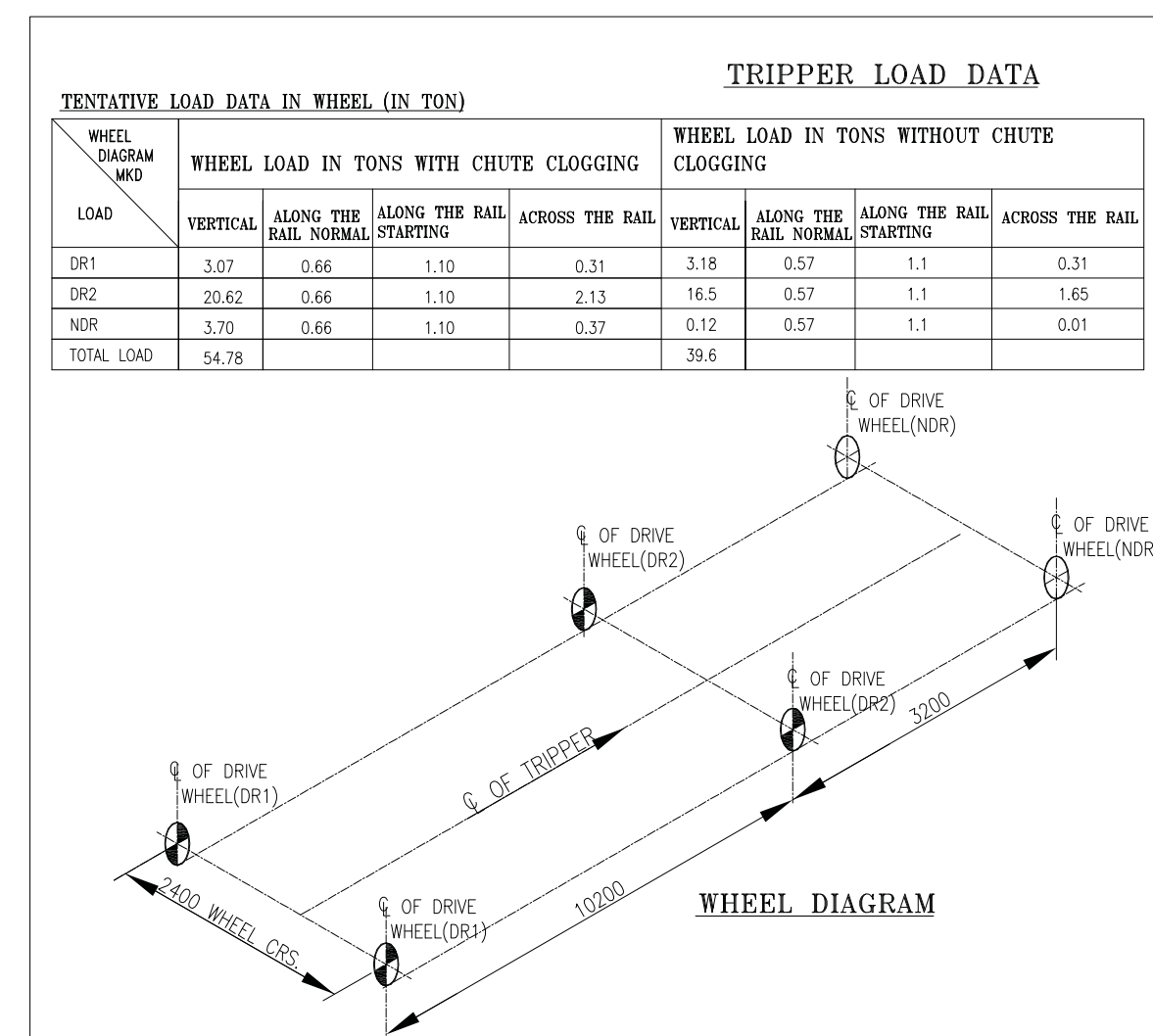
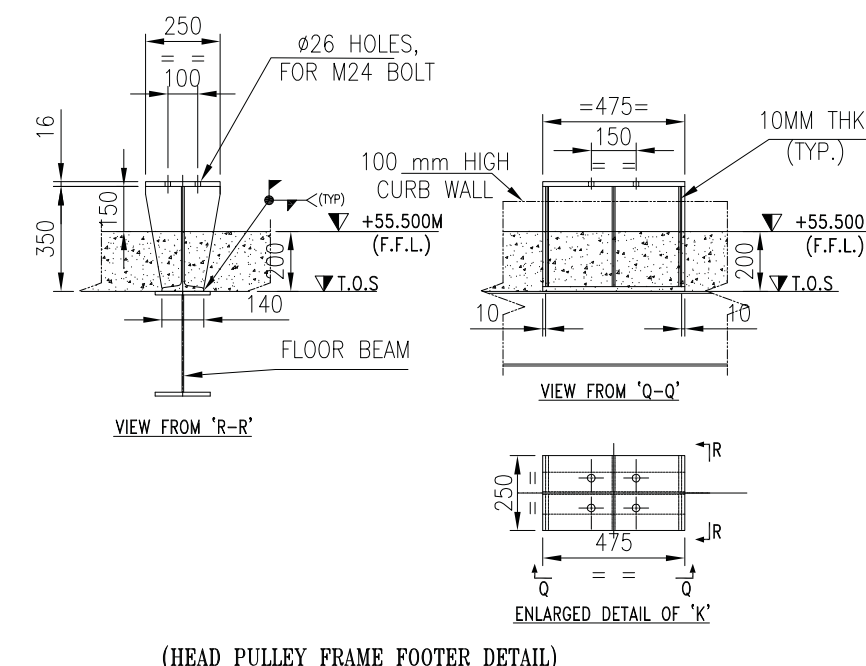
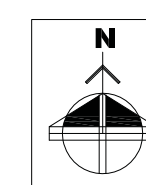
DRAWING NO.

IS-1-GA-701-101-M008

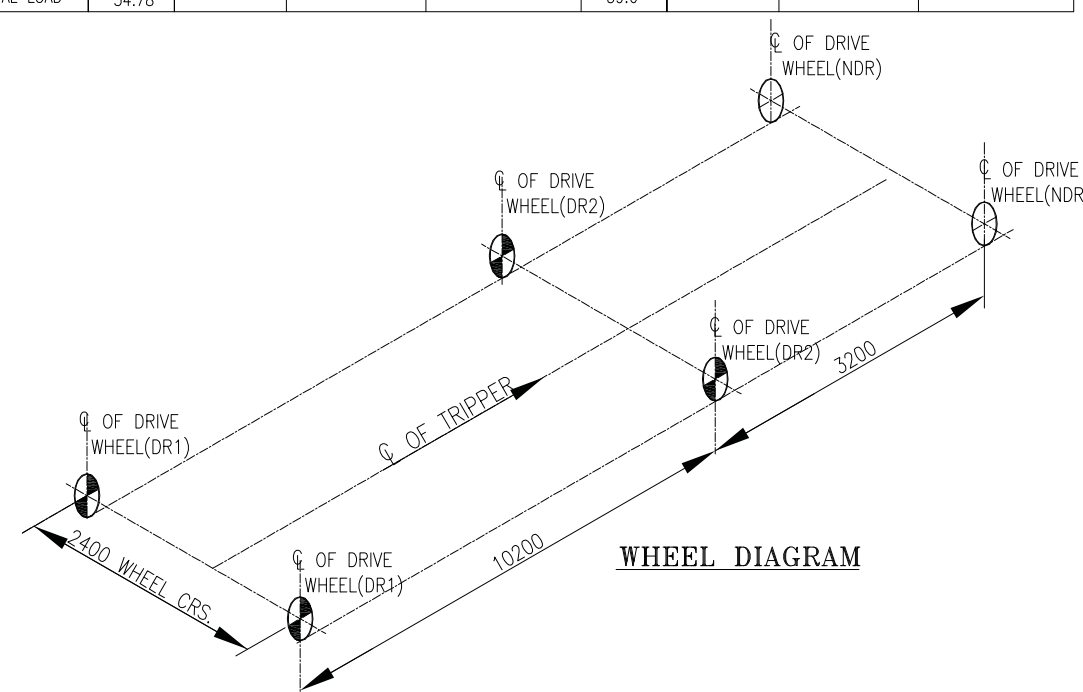
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NO.OF SHTS. 4

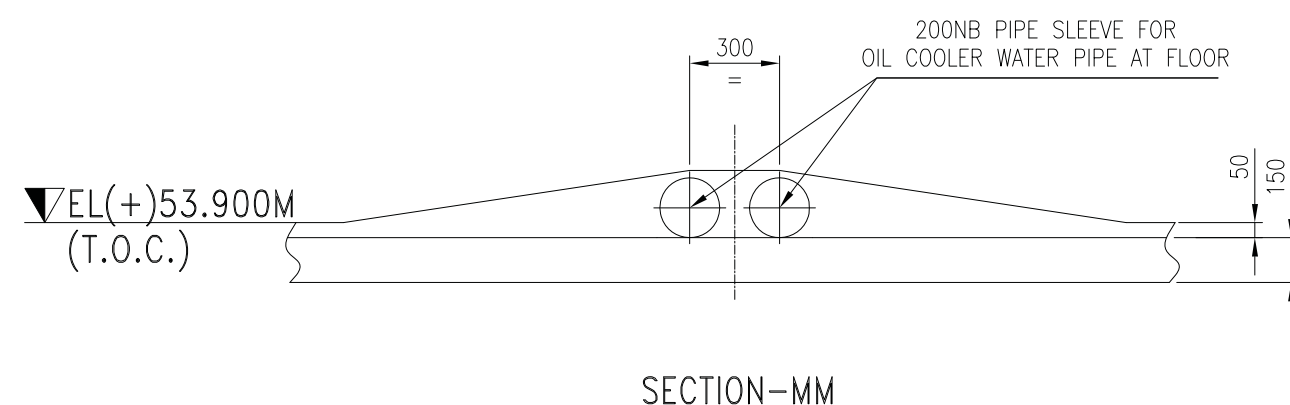
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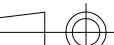


TENTATIVE LOAD DATA IN WHEEL (IN TON)						WHEEL LOAD IN TONS WITHOUT CHUTE			
LOAD	WHEEL DIAGRAM AND	WHEEL LOAD IN TONS WITH CHUTE CLOGGING				CLOGGING			
		VERTICAL	ALONG THE RAIL, NORMAL	ALONG THE RAIL, STARTING	ACROSS THE RAIL	VERTICAL	ALONG THE RAIL, NORMAL	ALONG THE RAIL, STARTING	ACROSS THE RAIL
DRY		3.07	0.66	1.10	0.31	3.18	0.57	1.1	0.31
IMP		20.62	0.66	1.10	2.13	16.5	0.57	1.1	1.65
NDR		3.70	0.66	1.10	0.37	3.12	0.57	1.1	0.01
TOTAL LOAD		31/24				39.6			



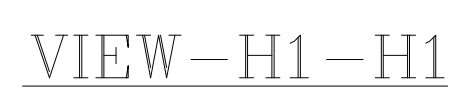
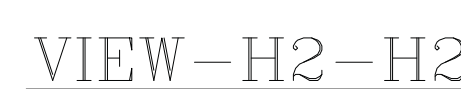
ENLARGED DET. MKD. 'a' (TENSIONING END) AS SHOWN AT TAIL END
ENLARGED DET. MKD. 'a1' (TENSIONING END) AS MIRROR AT HEAD END



JOB No: IS-1-15-2003				PROJECT TELANGANA SUPER THERMAL POWER PROJECT PHASE-I (2X800MW)										NO OF VAR											
STATUS OF DRAWING																									
DISTRIBUTION OF PRINTS				QTY.		 BHARAT HEAVY ELECTRICALS LTD. INDUSTRIAL SYSTEMS GROUP, BANGALORE		NAME		SIGN		DATE		NO OF ITEMS											
								DRN.		DUT		16.03.17													
								CHD.		MNK		16.03.17													
								APPD.		RSP/VSD		16.03.17													
REV.		NAME		SIGN		DATE		DIRECTORY :				SCALE		WEIGHT(Kgse.)		NTPC DRAWING NO.				ITEM NO.		NO OF ITEMS			
		ALTERED						FILE NO. :				N.T.S.		9591-102-155-PVM-B-030											
		CHECKED																							
		APPROVED																							
ZONE								TITLE :				GA OF 3rd/4th BUNKER CONVEYOR (CONV.-43A/B)								DRAWING NO. IS-1-GA-701-101-M008				REV. 01	

CLAUSE NO.	TECHNICAL REQUIREMENTS	
	DATA SHEET : MONORAILS AND HOISTS 1.0.0 GENERAL 1.1.0 Functional Requirement : To transfer equipment's to maintenance area or outside the building. 2.0.0 DESIGN & CONSTRUCTION REQUIREMENT 2.1.0 Hoists 2.1.1 Drive (i) More than 2.0 tonne or more than 10.0 m lift or hoists coming out-side the buildings Motor driven for both travel & lift. (ii) Other hoists including the hoists for handling takeup pulley and takeup weight Manual for both travel & lift. 2.1.2 Maximum trolley travel speed for electric hoists 15m/min 2.1.3 Maximum Hoisting speed for electric hoists 6 m/min 2.1.4 Drive Motors SQIM, Separate for travel & lift 2.1.5 No. of starts for drive motor 150 starts/hr at 40% CDF 2.1.6 Wire Rope (i) Type/Construction Pre-formed type, hemp cored, regular lay 6/36 construction (ii) Breaking Strength 160-175 kgf/sq. mm 2.1.7 Bearing (i) Type Ball/Roller bearing (ii) Life 20 years 2.1.8 Brake Electro Mechanical type with asbestos lining. 2.1.9 Load Hook Swiveling type forged circular shank section. 2.1.10 Duty Class –2 2.2.0 Monorail location/layout 2.2.1 Cross section I beam 2.2.2 Distance between C/L of monorail & C.G. of equipment to be lifted Maximum 500 mm	
TELANGANA SUPER THERMAL POWER PROJECT PHASE-I (2X800 MW) STEAM GENERATOR ISLAND PACKAGE	TECHNICAL SPECIFICATION SECTION-VI, PART-B BID DOC. NO. CS-9591-101-2	SUB-SECTION-A-20 COAL HANDLING PLANT (CHP) Page 19 of 44

[illegible]



DETAILS OF NOZZLE
(TO BE PROVIDED BY CIVIL)

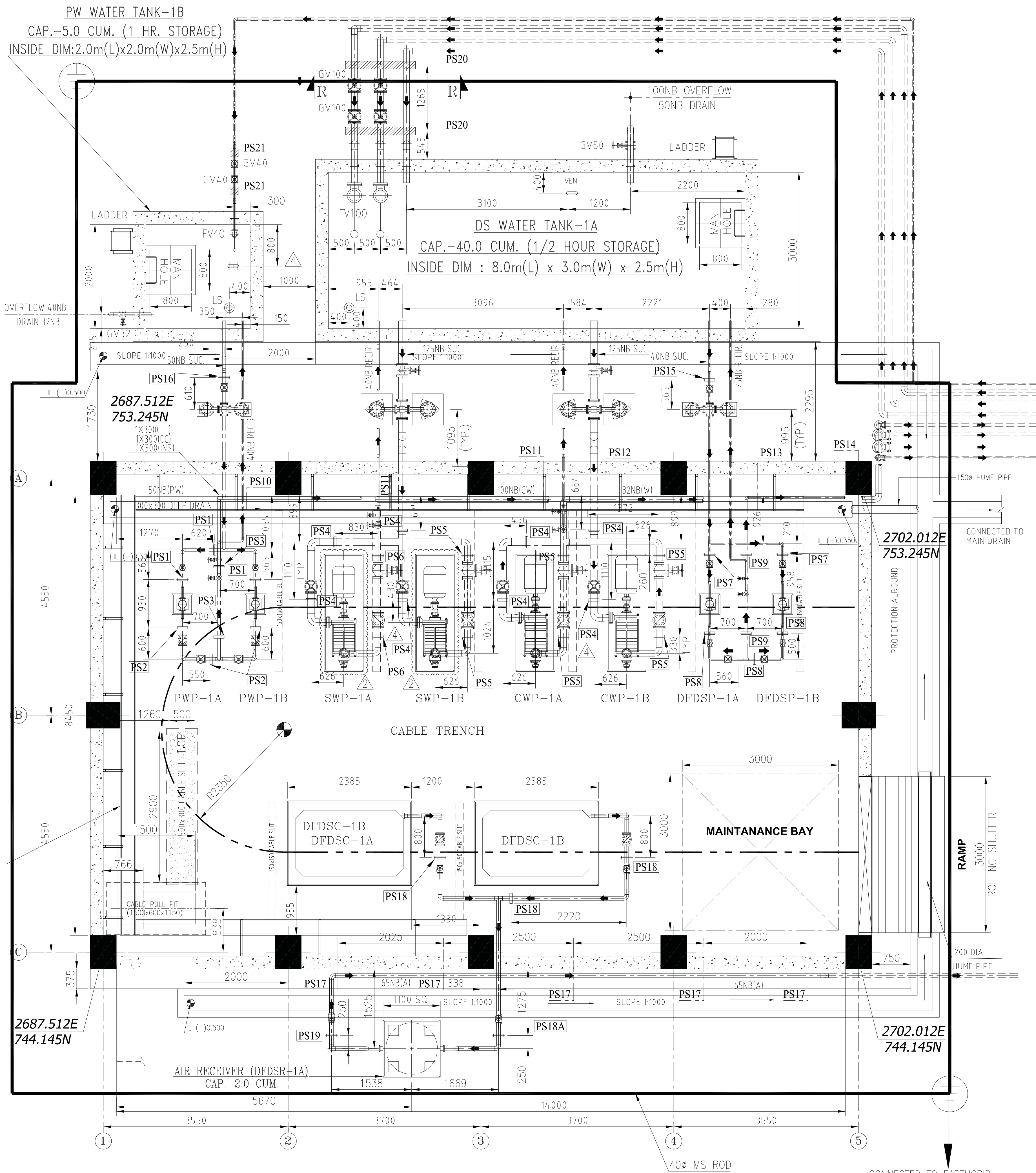
 OSM PROJECTS PRIVATE LIMITED.	NAME		SIGN	DATE	NO. OF VAR
	DRN:				
	CHD:				
	APPD:				

 APC SYSTEM & PRODUCTS (P) LTD.	NAME		SIGN	DATE	RE
	DRN:				
	CHD:				
	APP		DP	06.06.19	4

DIRECTORY :		SCALE	WEIGHT(Kgs.)	NTPC DRAWING NO.	ITEM NO.	NO.OF ITEMS
FILE NO. :		1:75		9591-102-155-PVM-B-073		
TITLE :	PIPING LAYOUT OF DFDS/DS/PW/SW/CW SYSTEM AT CHP PUMP HOUSE			BHEL DRAWING NO.		REV. 5
				IS-1-GA-701-112-M015		
				OSM DRAWING NO.		
				OSM-17007-WS-PH-001		
				SHEET NO.	2	NO.OF SHTS.
					4	

IS-1-GA-701-112-M015

ON 5114940

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PLAN FOR PIPE SUPPORTS

(SCALE:1:75) A

PIPING SPECIFICATION

1. PIPING & FITTING JOINTS:

- A. PIPE TO PIPE - PIPE SIZE $\leq$ 50NB - SCREWED
PIPE SIZE $\geq$ 50NB - BUTT WELDING
B. PIPE TO VALVES - PIPE SIZE $\leq$ 50NB - SCREWED
PIPE SIZE $\geq$ 50NB - FLANGED

2. MATERIAL FOR PIPES:

- A. FOR SIZES 200 NB & LARGER - ERW CARBON STEEL PIPES TO IS: 3589 (Thk. 6.35mm Min.)
B. FOR SIZES 150 NB TO 65 NB - ERW CARBON STEEL BLACK PIPES TO IS: 1239 (PART-1) HEAVY CLASS
C. FOR SIZES BELOW 65 NB - ERW CARBON STEEL GALVANISED PIPES TO IS: 1239 (PART-1) HEAVY CLASS.

3. MATERIAL FOR PIPE FITTINGS:

- A. FOR SIZES BELOW 65 NB: ALL FITTINGS SHALL BE AS PER IS: 1239 (PART - II) ERW GALVANISED WITH SCREWED ENDS.
B. FOR SIZES 150 NB TO 65 NB: ALL FITTINGS SHALL BE FABRICATED FROM PIPE IS:1239(PART-1) HEAVY AND DIMENSION ARE AS PER ANSI B-16.9 WITH BEVEL END.
C. FOR SIZES ABOVE 150 NB: ALL FITTINGS SHALL BE FABRICATED AS PER ASTM A234 WPB/IS 3589 ERW CARBON STEEL WITH BEVEL ENDS. DIMENSIONS ARE AS PER ANSI B-16.9.

NOTES

- 1) ALL DIMENSIONS ARE IN MM.
2) REFER THIS DRAWING FOR SERVICE WATER, COOLING WATER, POTABLE WATER & DFDS SYSTEMS.
3) RCC STORAGE TANK - 1A & 1B FOR DFDS SYSTEM COMPLETE WITH DRAIN, VENT, MANHOLE AS PER DBR.
4) UNDER GROUND PIPING SHALL HAVE SUITABLE EARTH COVERAGE WITH NECESSARY WRAPPING & COATING. UNDERGROUND PIPES AT ROAD CROSSING SHALL BE ROUTED THROUGH HUME PIPE.
5) ALL SYSTEM SHOULD BE OPERATED AFTER FIRST FILLING OF WATER IN THE RESPECTIVE RCC TANKS.
6) THE DRAWING IS BASED ON FLOW DIAGRAM FOR COAL HANDLING SYSTEM.
7) THIS DRAWING TO BE READ IN CONJUNCTION WITH DESIGN BASIS REPORT REF. BHEL DDC. NO. IS-4-DC-701-110-M036 & NTPC DDC. NO. 9591-102-155-PWM-L-002
8) THE DRAWING IS BASED ON FLOW DIAGRAM FOR COAL HANDLING SYSTEM REF. BHEL DRG.NO. IS-1-FL-701-100-M033 & NTPC DRG. NO. 0000-155-PWM-L-001.

PIPE LOAD

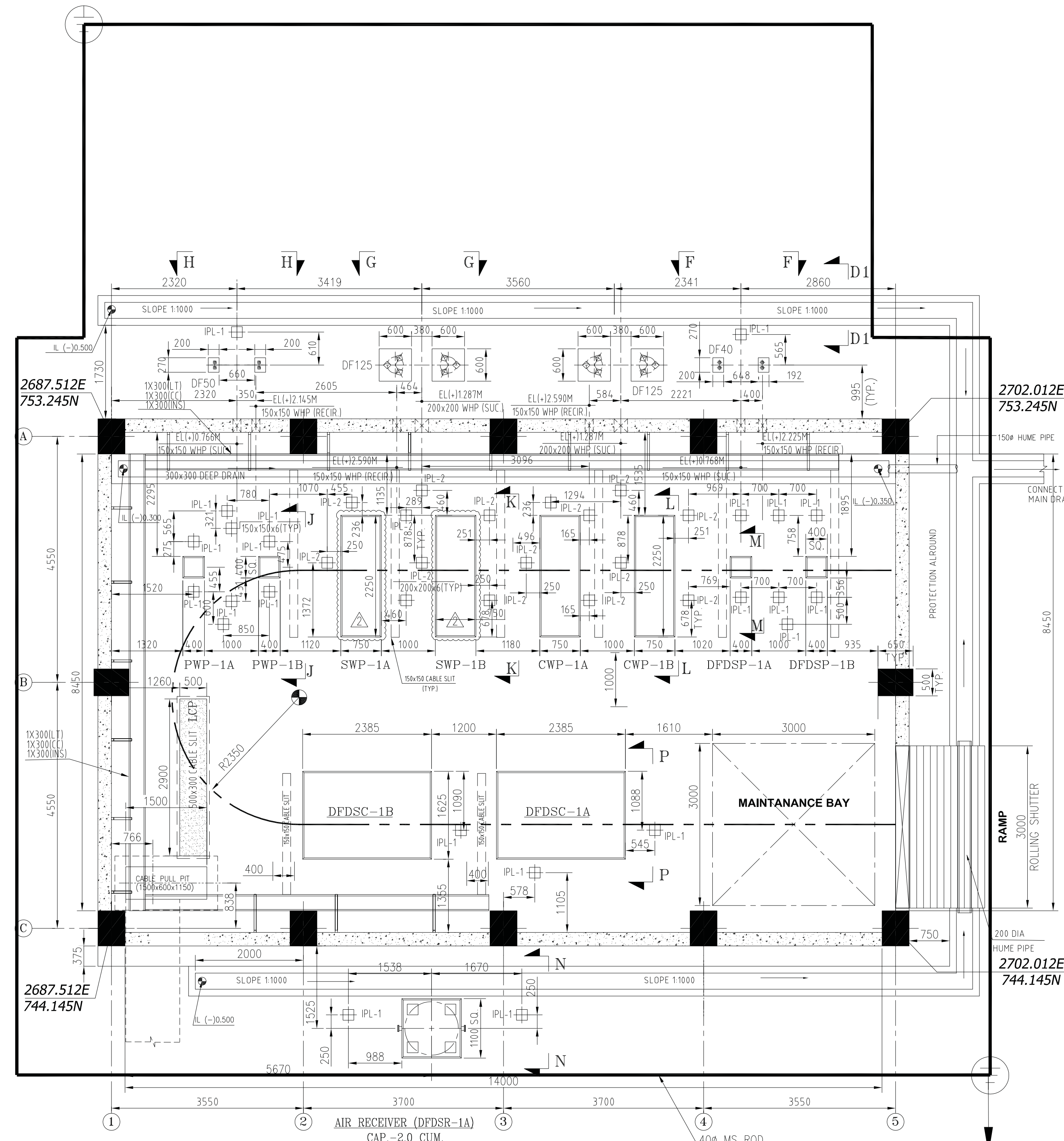
SL. NO.	SUPPORT NO.	PIPE SIZE	SUPPORT LOAD (Kg/m)
1	PS-10	50NB	12
2	PS-11	100NB & 50NB	48
3	PS-12	100NB(2NOS) & 50NB	88
4	PS-13	100NB(2NOS), 50NB & 32NB	96
5	PS-14	100NB(2NOS), 50NB & 32NB	96
6	PS-17	65NB	17

SCHEDULE OF PUMP & MOTOR

TAG.NO.	QTY.	PUMP CAP. (CMH.)	PUMP HEAD (MWC)	MOTOR RATING KW
PUMP FOR DFDS SYSTEM (DFDSP-1A&1B)	2 (1W+1S)	1.50	88	1.10
PUMP FOR SERVICE WATER SYSTEM (SWP-1A&1B)	2 (1W+1S)	33	111	22.0
PUMP FOR DRINKING WATER SYSTEM (PWP-1A&1B)	2 (1W+1S)	5	114	4.0
PUMP FOR COOLING WATER SYSTEM (CWP-1A&1B)	2 (1W+1S)	44	145	37.0

SCHEDULE OF AIR COMPRESSOR & MOTOR

TAG.NO.	QTY.	COMP. CAP. (CFM.)	COMP. HEAD (MWC)	MOTOR RATING KW
AIR COMPRESSOR FOR DRY FOG DUST SUPPRESSION SYSTEM (DFDSC-1A/1B)	2 (1W+1S)	383	7	75



PLAN FOR FOUNDATION DETAIL

(SCALE:1:75) A

QTY.	SL.NO.	DESCRIPTION	DIMENSION/TYPE	MAT'L	REMARKS
2	28	LEVEL SWITCH (DISPLACER TYPE)			
1	27	AIR RECEIVER	CAP.-2.0 CFM		
2	26	DUPLEX STRAINER	125NB		
1	25	DUPLEX STRAINER	50NB		
1	24	DUPLEX STRAINER	40NB		
4	23	DIFFERENTIAL PRESSURE INDICATOR WITH GAUGE COCK			
4	22	DIFFERENTIAL PRESSURE SWITCH WITH GAUGE COCK			
LOT	21	PIPE SUPPORT	PIPE 80NB ISA-50X50X5 ISMC-75,100 & 150	CS M.S	
8	20	PRESSURE SWITCH WITH GAUGE COCK	-	-	
8	19	PRESSURE GAUGE WITH GAUGE COCK & SYPHON	-	-	
8	18	COMPOUND GAUGE WITH GAUGE COCK & 'U' TUBE	-	-	
3	17	PRESSURE RELIEF VALVE	32NB 20NB	GM	
4	16	BALL VALVE	65NB 100NB 50NB	GM CI	
2	15	GLOBE VALVE	32NB 20NB 100NB	GM CI	
1	14	NON RETURN VALVE	65NB 50NB 32NB	CI GM	
2	13	GATE VALVE	125NB 100NB 50NB 40NB 32NB 20NB	CI GM	
2	12	MOTOR (PWP-1A&1B)			
2	11	PUMP (PWP-1A&1B)			
2	10	MOTOR (CWP-1A&1B)			
2	9	PUMP (CWP-1A&1B)			
2	8	MOTOR (SWP-1A&1B)			
2	7	PUMP (SWP-1A&1B)			
2	6	MOTOR (DFDSP-1A&1B)			
2	5	PUMP (DFDSP-1A&1B)			
2	4	MOTOR OF COMPRESSOR (DFDSC-1A&1B)			
2	3	AIR COMPRESSOR (DFDSC-1A&1B)			
LOT	2	PIPE FITTINGS	125NB, 100NB & 65NB 50NB, 40NB, 32NB, 25NB & 20NB	ERW CS BUTT WELDING ENDS GI SCREWED ENDS	IS:1239(P-II) IS:1239(P-II)
LOT	1	PIPE	125NB, 100NB & 65NB 50NB, 40NB, 32NB, 25NB & 20NB	ERW CS BLACK ERW CS GI	IS:1239(P-I) (H) IS:1239(P-I) (H)

BILL OF MATERIAL

REFERENCE DRAWINGS

DESCRIPTION	NTPC DRG NO.	BHEL DRG NO.
FLOW DIAGRAM	0000-155-PWM-L-001	IS-1-FL-701-100-M033
SCHEMATIC FOR DFDS,SW,PW & CW SYSTEMS	9591-102-155-PWM-L-002	IS-4-DC-701-110-M036
DBR FOR DFDS,SW,PW & CW SYSTEM	9591-102-155-PWM-L-002	IS-4-DC-701-110-M036

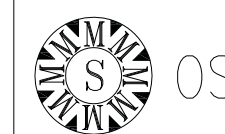
OWNER/CONSULTANT

**NTPC Limited**ENGINEERING DIVISION
(A GOVERNMENT OF INDIA ENTERPRISE)

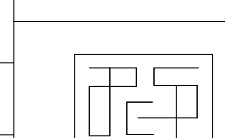
PROJECT

TELANGANA SUPER THERMAL POWER PROJECT
PHASE-1 (2X800MW)**BHARAT HEAVY ELECTRICALS LTD.**

INDUSTRIAL SYSTEMS GROUP, BANGALORE



OSM PROJECTS PRIVATE LIMITED.



APC SYSTEM & PRODUCTS (P) LTD.

DRG. No. [APCSP-BHEL-KARIM-DFDS-024]

DIRECTORY :

FILE NO. :

TITLE :

PIPING LAYOUT OF DFDS/DS/PW/SW/CW
SYSTEM AT CHP PUMP HOUSE

SHEET NO. 3

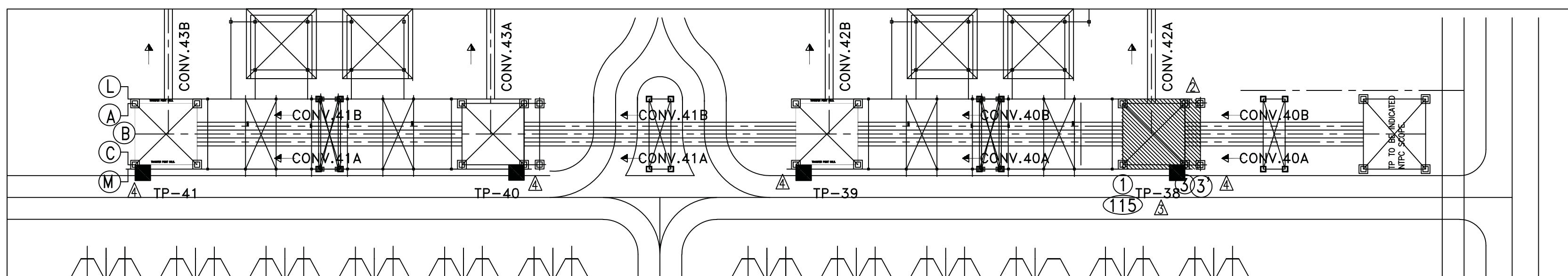
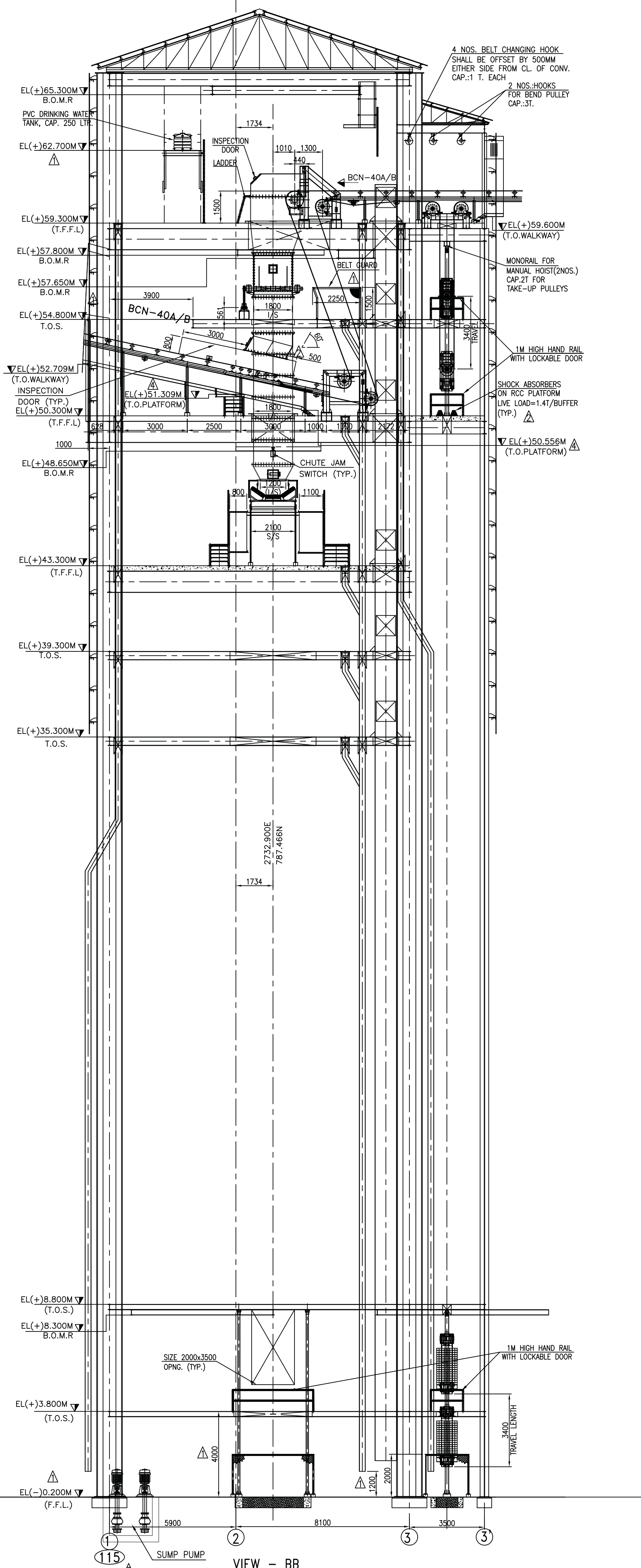
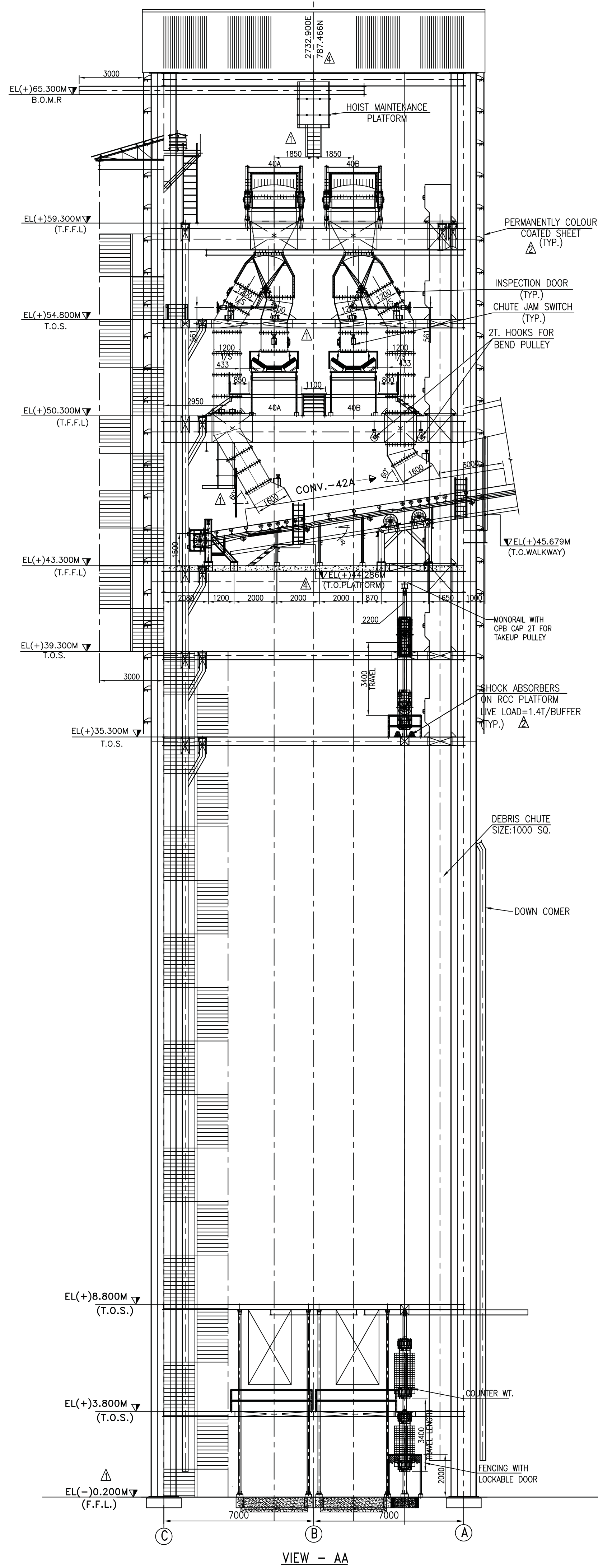
NO.OF SHTS. 4

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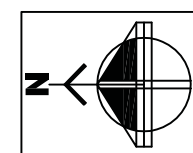
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OSM DRAWING NO. OSM-17007-WS-PH-001

REV. 5



KEY PLAN



OWNER/CONSULTANT

एन टी पी सी

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NTPC Limited

ENGINEERING DIVISION
(A GOVERNMENT OF INDIA ENTERPRISE)

JOB NO.

01-11-2003

DATE OF DRAWING

DISTRIBUTION OF PAGES

QTY.

REV.

ZONE

PROJECT

TELANGANA SUPER THERMAL POWER PROJECT
PHASE-I (2x800MW)

BHARAT HEAVY ELECTRICALS LTD.

INDUSTRIAL SYSTEMS GROUP, BANGALORE

CHKD.

DATE

CMD.

DATE

APPR.

DATE

NAME

DATE

DATE

SIGN.

DATE

DATE

NO. OF

DATE

DATE

12.11.18

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12.11.18

12

12

12

SECRETARY :

FILE NO. :

TITLE :

SCALE

WEIGHT(KGS)

NTPC DRAWING NO.

9591-102-155-PVM-B-009

DRAWING NO.

IS-1-GA-701-004-M003

GA & LOAD DATA OF TR-38
(GA OF 1ST BUNKER TP)

REV. 6

SHEET NO.

1

NOLDF

SHTS.

3

IS-1-GA-701-104-M003
ON 31/01/2003

2

3

4

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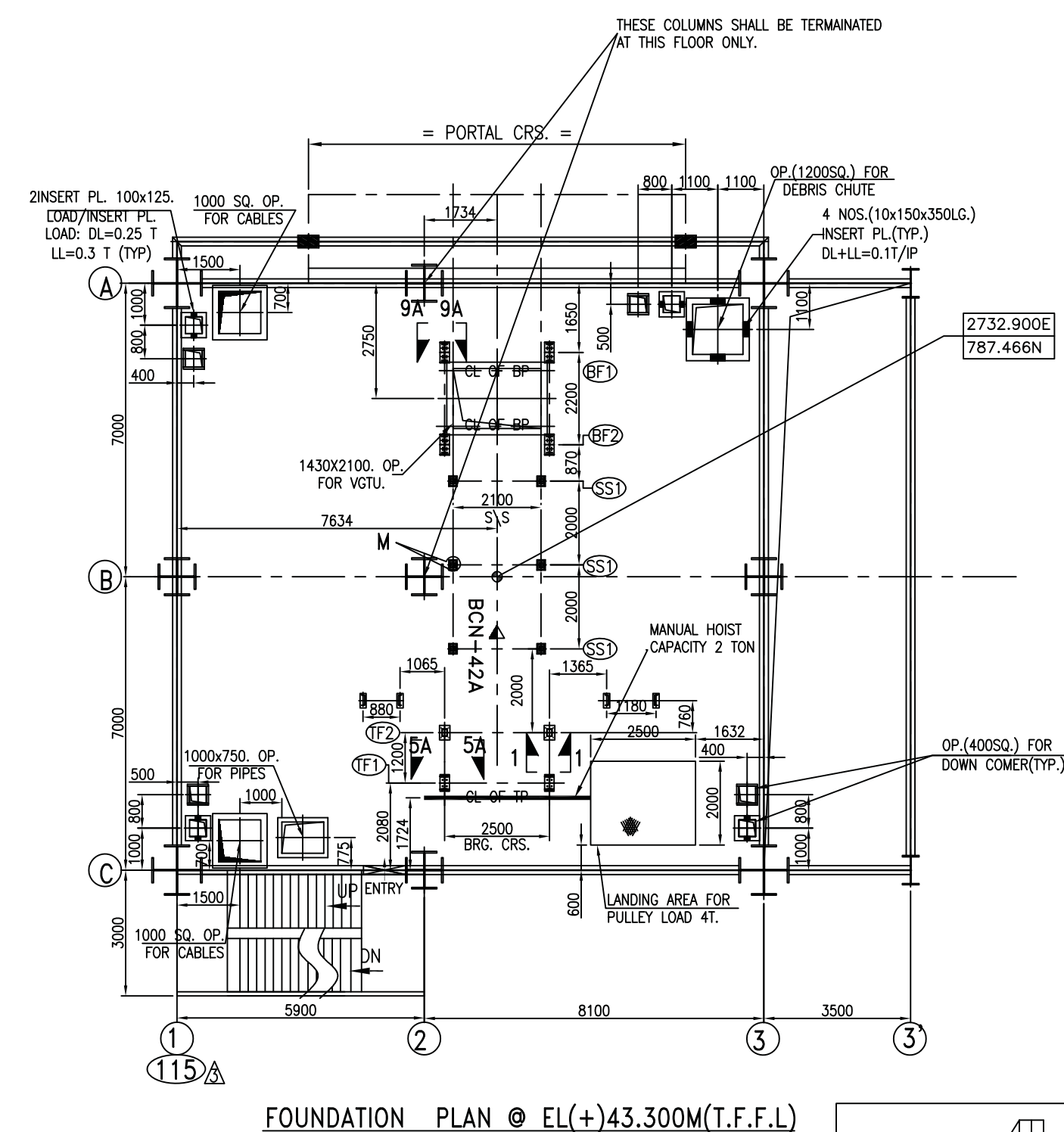
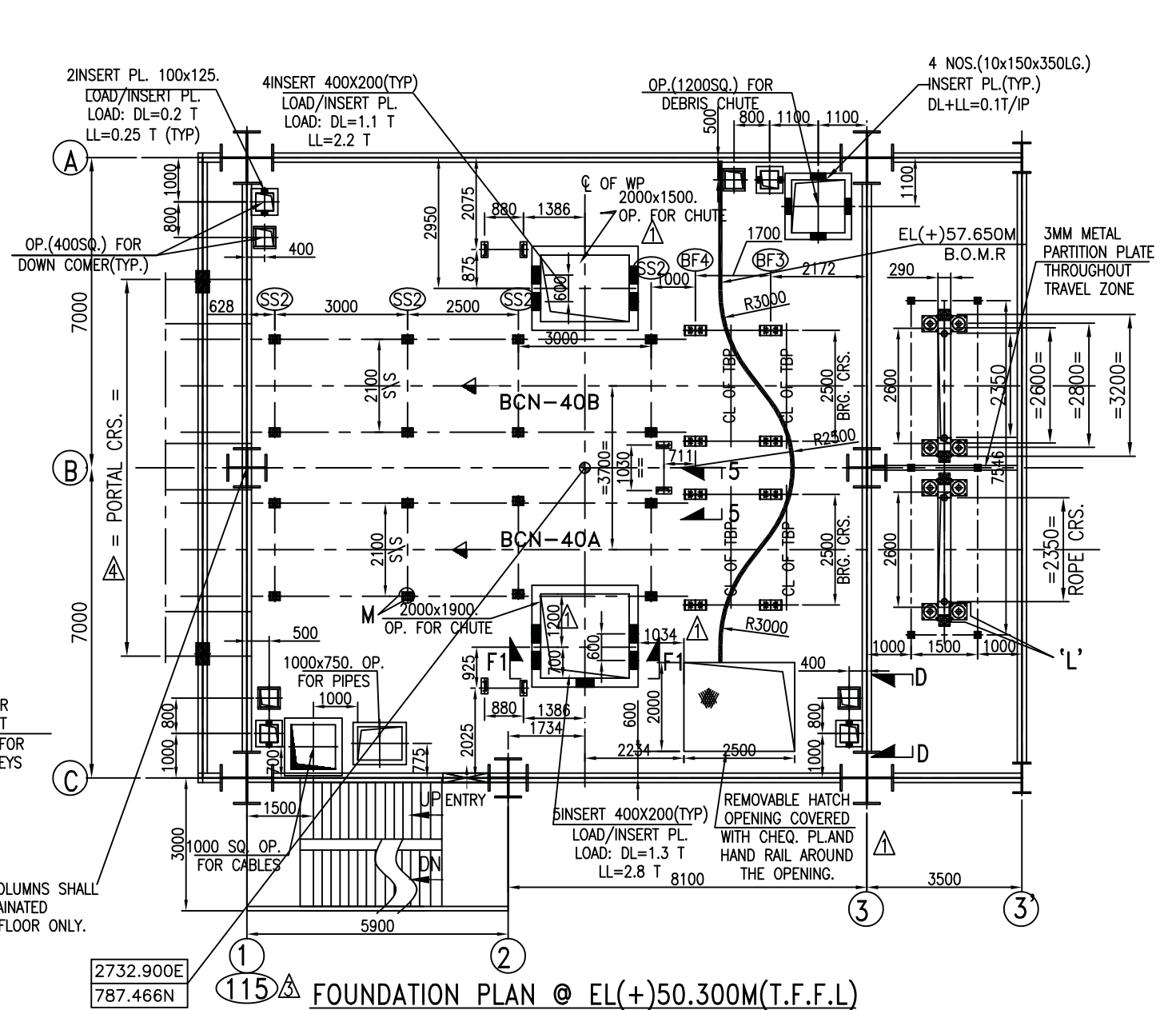
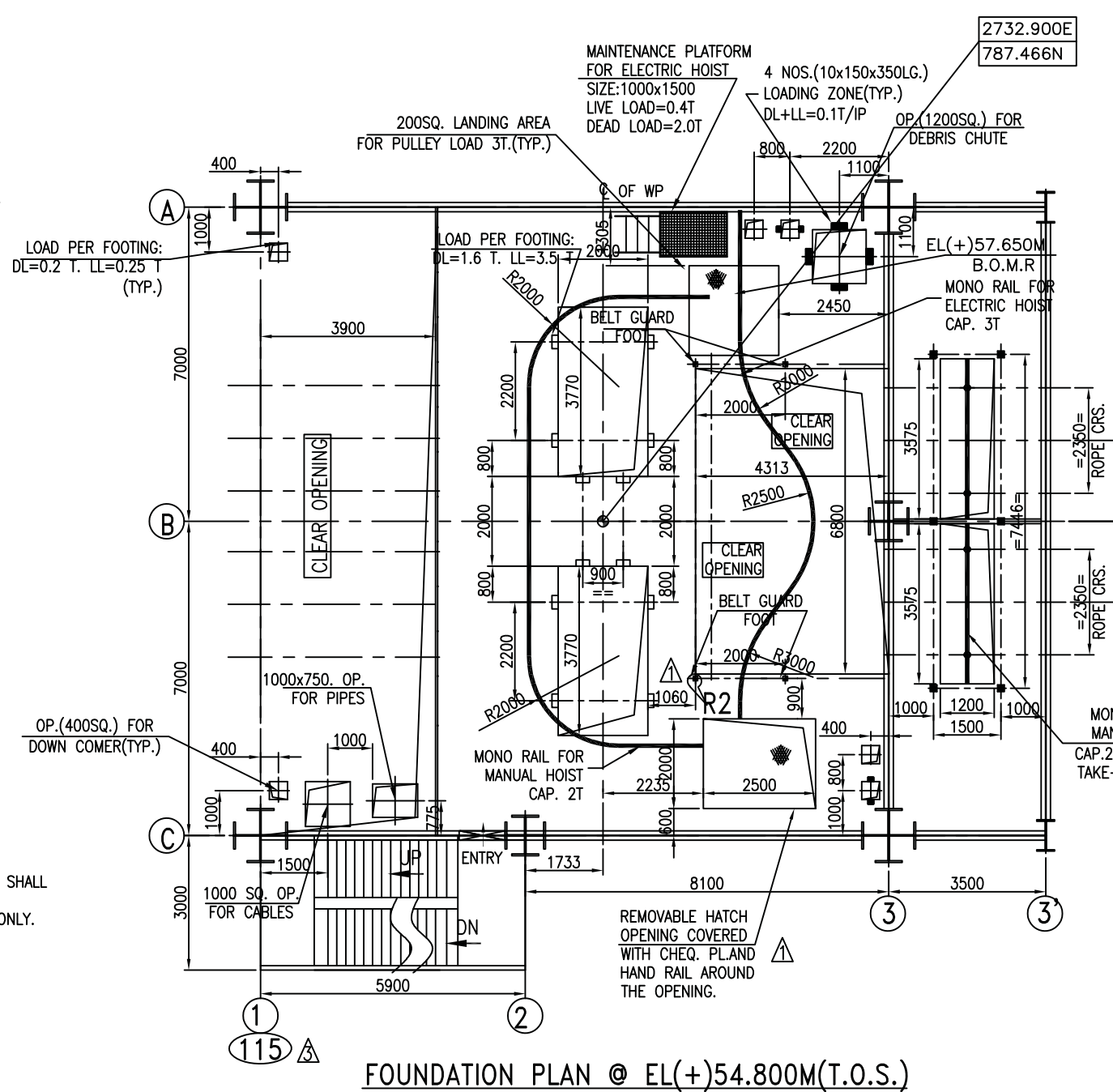
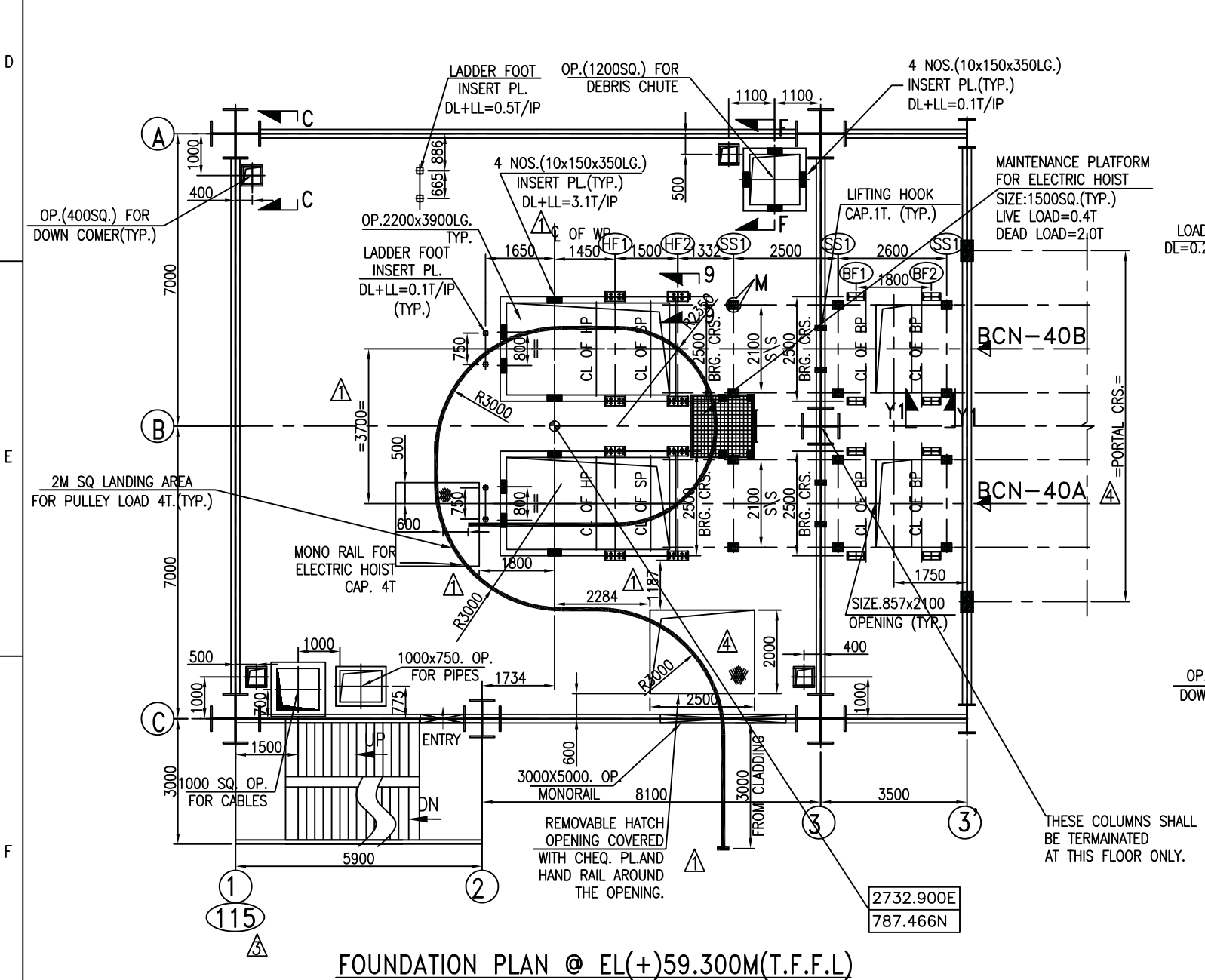
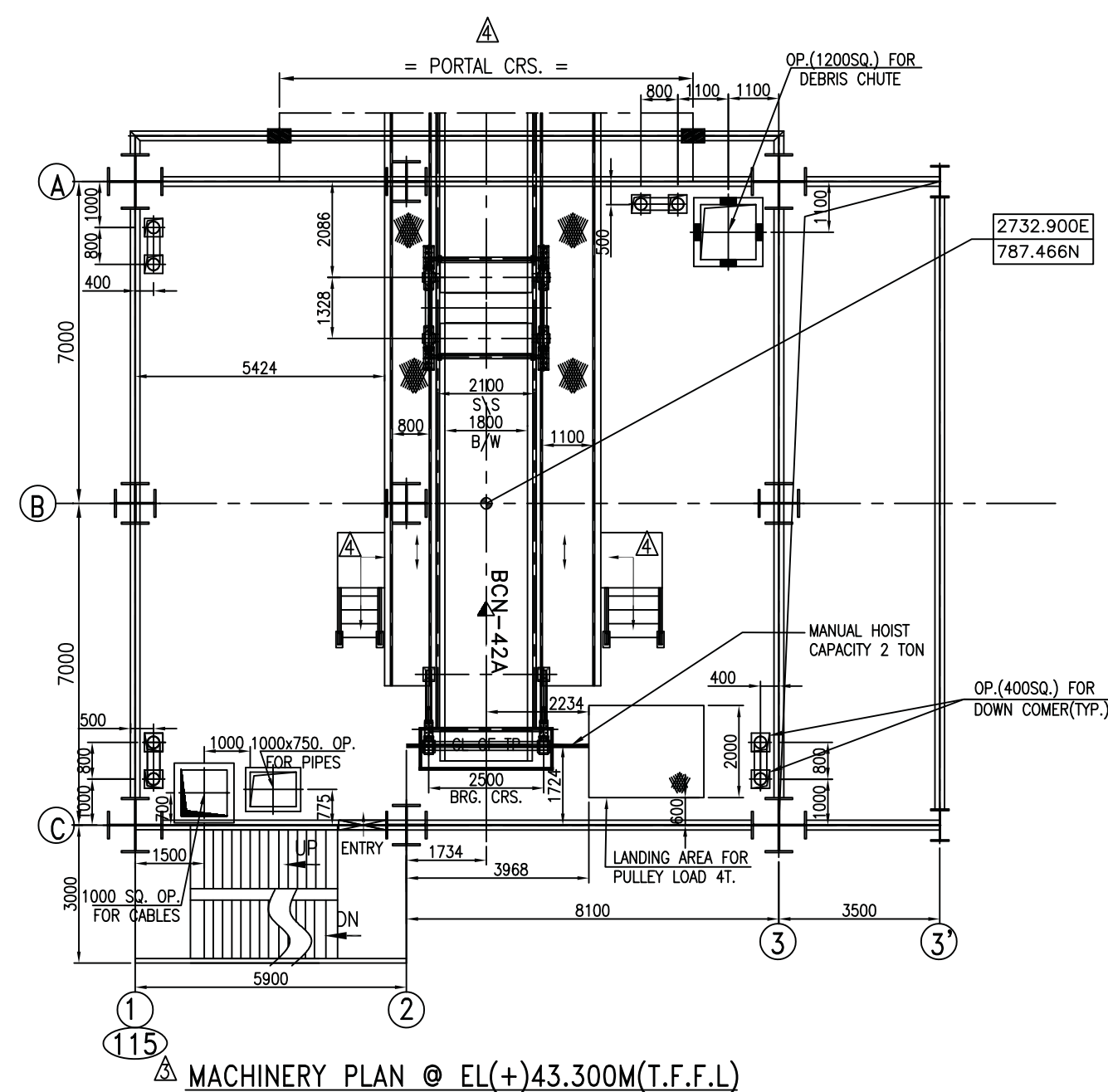
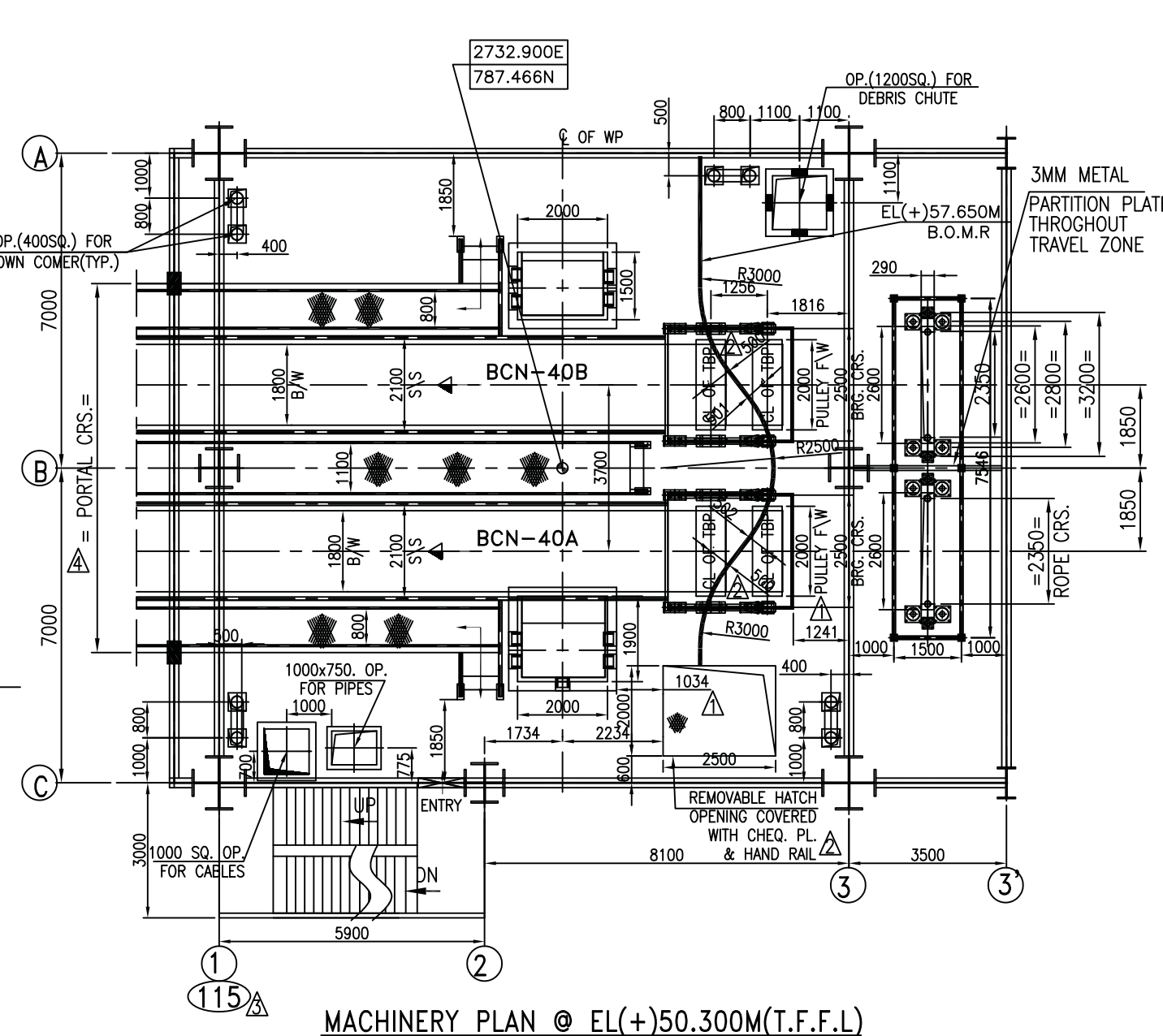
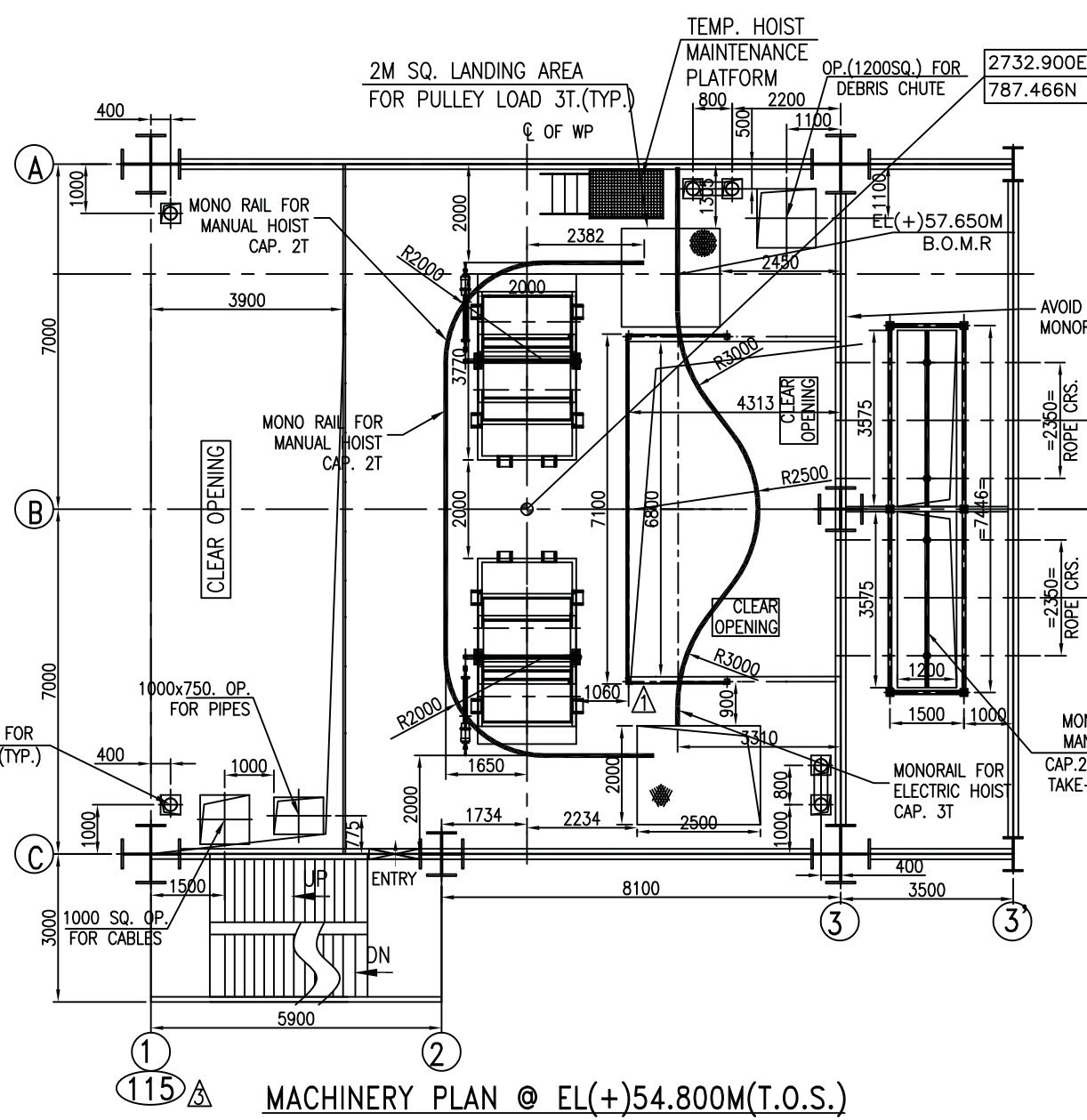
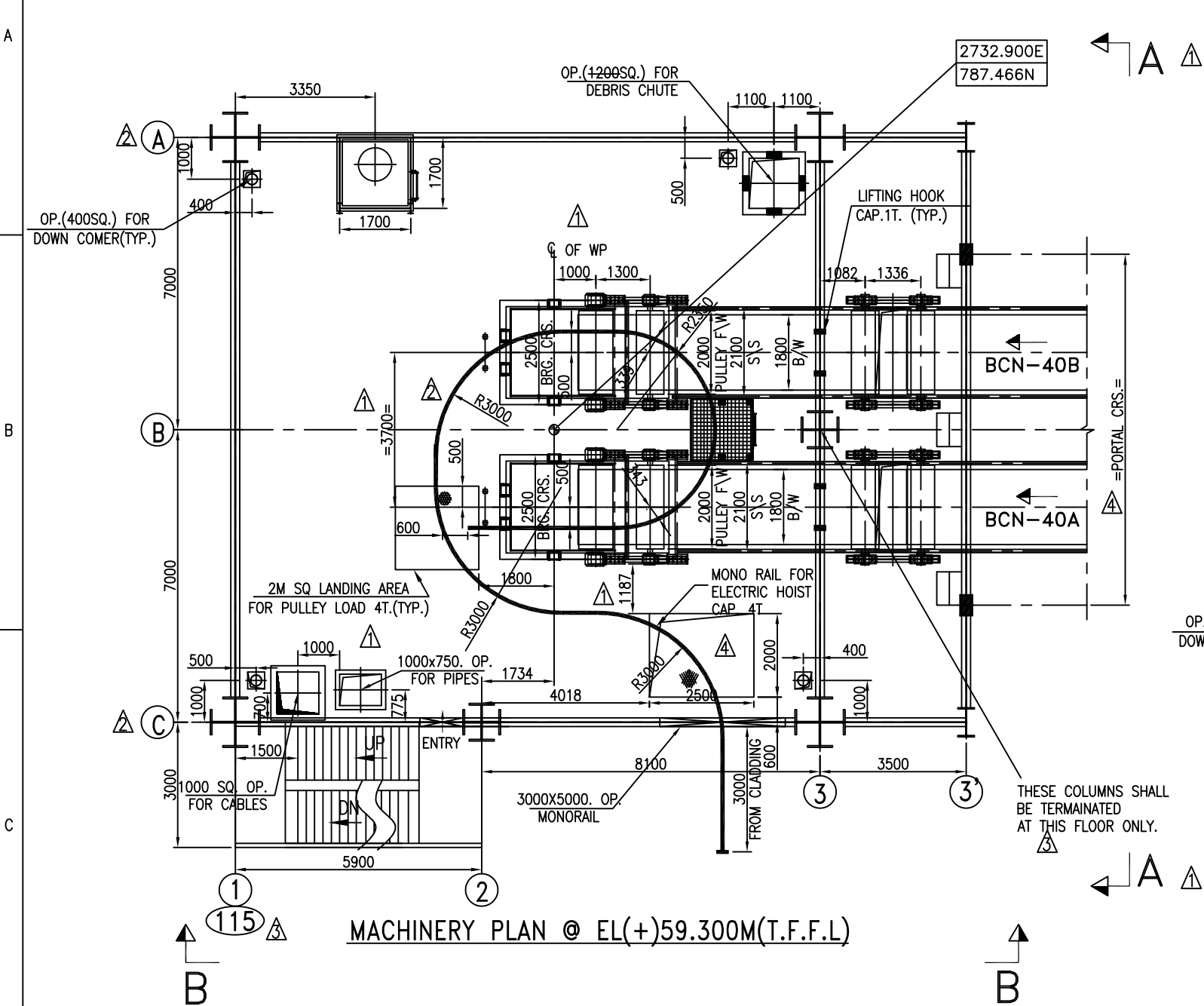
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it must not be used in any way detrimental to the interest of the Company.



- NOTES**
- EL+0.0M CORRESPONDS TO RL 149.0M IN MAIN PLANT AREA.
 - ALL DIMENSIONS ARE IN MM & LEVELS ARE IN M.
 - FIXED ROLLER SHALL BE PROVIDED AT RETURN SIDE OF CONV GALLERY AT SUITABLE LOCATION FOR LAYING OF NEW BELT.
 - TAKE-UP SHALL BE PROVIDED WITH MARK UP SCALE TO MONITOR THE BELT STRETCH.
 - ALL THE FLOOR OPENINGS SHALL BE PROVIDED WITH ISA 50X50 CURB ANGLE & 100mm HIGH CURB WALL.
 - ALL THE FLOOR OPENINGS SHALL BE PROVIDED WITH HANDRAIL.
 - STRUCTURAL ARREST SHOWN ARE INDICATIVE ONLY.
 - GUARD TO BE PROVIDED TO ALL PULLEYS.
 - LENGTH OF SKIRT BOARD SHALL BE FINALISED BASED ON DFDS SYSTEM REQUIREMENT.
 - 3mm PARTITION PLATE SHALL BE PROVIDED IN THE TAKE-UP PULLEY TRAVEL ZONE BY BHEL/BHEL'S MECHANICAL VENDOR.
 - VGU GUIDE TO BE SUPPORTED AT EVERY MAINTENANCE PLATFORM.
 - MAINTENANCE PLATFORM FOR VGTU, INTERMEDIATE FLOOR, VGTU GUIDE AND GUIDE PIPE, ACCESS DOOR, MONORAIL FOR HANDLING TAKE-UP AND AND COUNTER WEIGHT SHALL BE PROVIDED BY BHEL/BHEL'S MECHANICAL VENDOR.
 - SUPPORT FOR DEBRIS CHUTE FROM INTERMEDIATE BEAMS SHALL BE FINALISED BASED ON STRUCTURE DRG.
 - CHUTE LOADS ARE FOR CLOGGED CONDITIONS FOR BOTH CHUTES.
 - VGU GUIDE TO BE SUPPORTED AT EVERY MAINTENANCE PLATFORM.
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LOAD DATA IN TONNES PER LEG(APPLICABLE FOR ALL SHEETS):-

FOOTING AND LOADING	CONV. SUPPORTS									
	CONV. BCN-40A/40B					CONV. BCN-42A				
	HP1	HP2	BP1	BP2	BP3	BP4	SS1	SS2	TP1	TP2
DEAD LOAD	2.3	0.9	1.2	1.2	2.0	1.2	0.6	0.6	1.6	0.4
LIVE LOAD	0.2	0.2	0.4	0.2	0.2	0.76	0.76	0.15	0.15	0.3
Hx	6	6	-	-	-7.7	-7.7	-	-	-	-
yy	4.8	4.8	0.1	0.1	-6.4	-6.4	0.18	0.18	-2.3	-2.3
	4	7.3	-	-	-4.5	-5.6	-	-	-	-
	3.2	5.9	2.45	2.45	-5.4	-6.7	-	-	-7.3	8.9

OWNER/CONSULTANT

NTPC Limited
ENGINEERING DIVISION
(A GOVERNMENT OF INDIA ENTERPRISE)

PROJECT

**TELANGANA SUPER THERMAL POWER PROJECT
PHASE-I (2X800MW)**

BHARAT HEAVY ELECTRICALS LTD.
INDUSTRIAL SYSTEMS GROUP, BANGALORE

DRN. DUT
CHK. MNK
APPD. RSP/VSD

NAME
SIGN
DATE
NO OF
VAR

ITEM NO.
NO OF
ITEMS

SHEET NO. 2 NO. OF SHTS. 3

REV. ALTERED
CHECKED
APPROVED

NAME
SIGN
DATE

ZONE

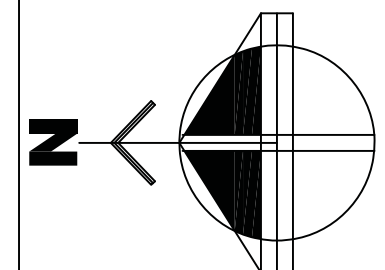
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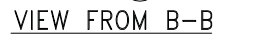
DIRECTORY :
FILE NO. :

TITLE :
GA & LOAD DATA OF TP-38
(GA OF 1ST BUNKER TP)

DRAWING NO.
IS-1-GA-701-104-M003

REV. 6





NOTES

1. EL+0.0M CORRESPONDS TO RL 149.0M IN MAIN PLANT AREA.

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NTPC

NTPC Limited
ENGINEERING DIVISION
(A GOVERNMENT OF INDIA ENTERPRISE)

TELANGANA SUPER THERMAL POWER PROJECT
PHASE-I (2X800MW)

9591-102-155-PVM-B-010

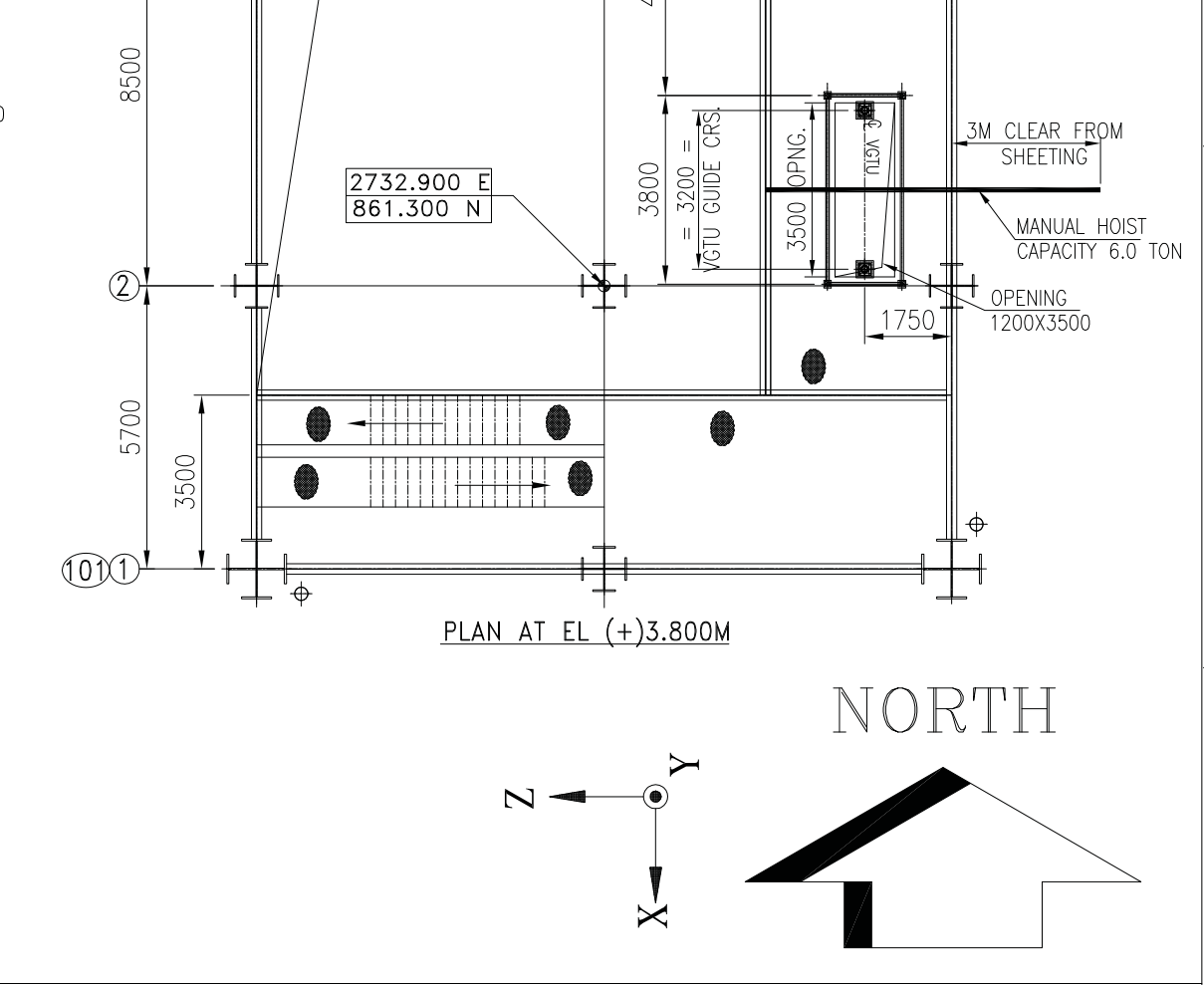
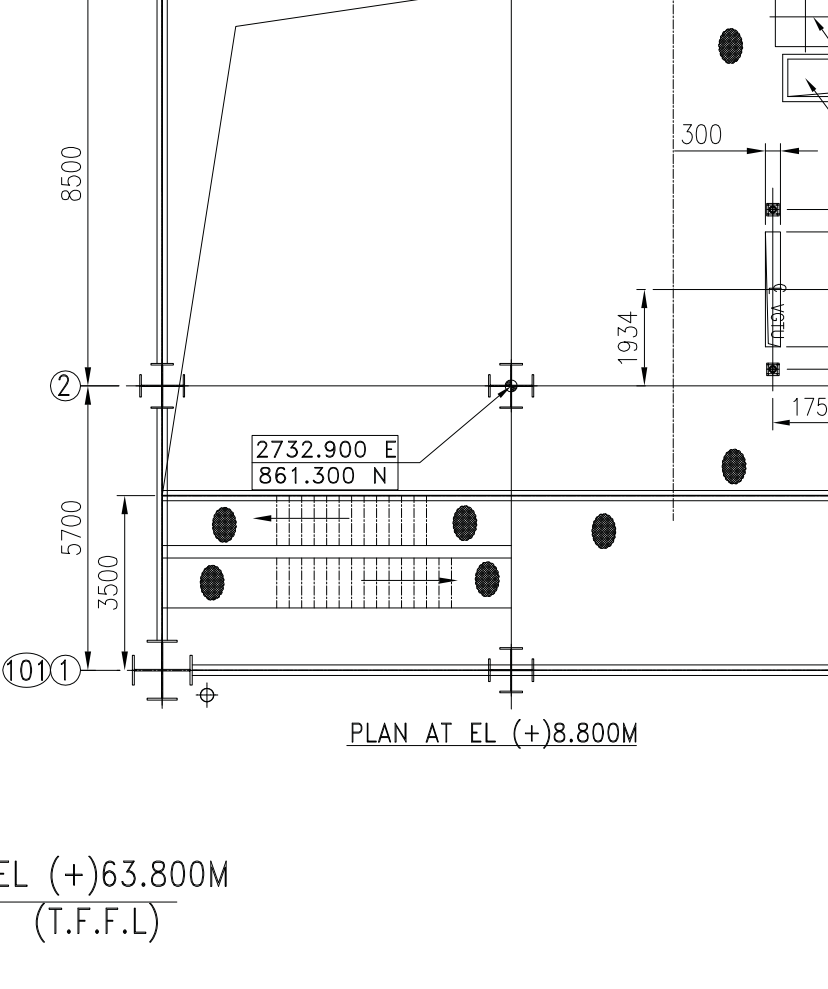
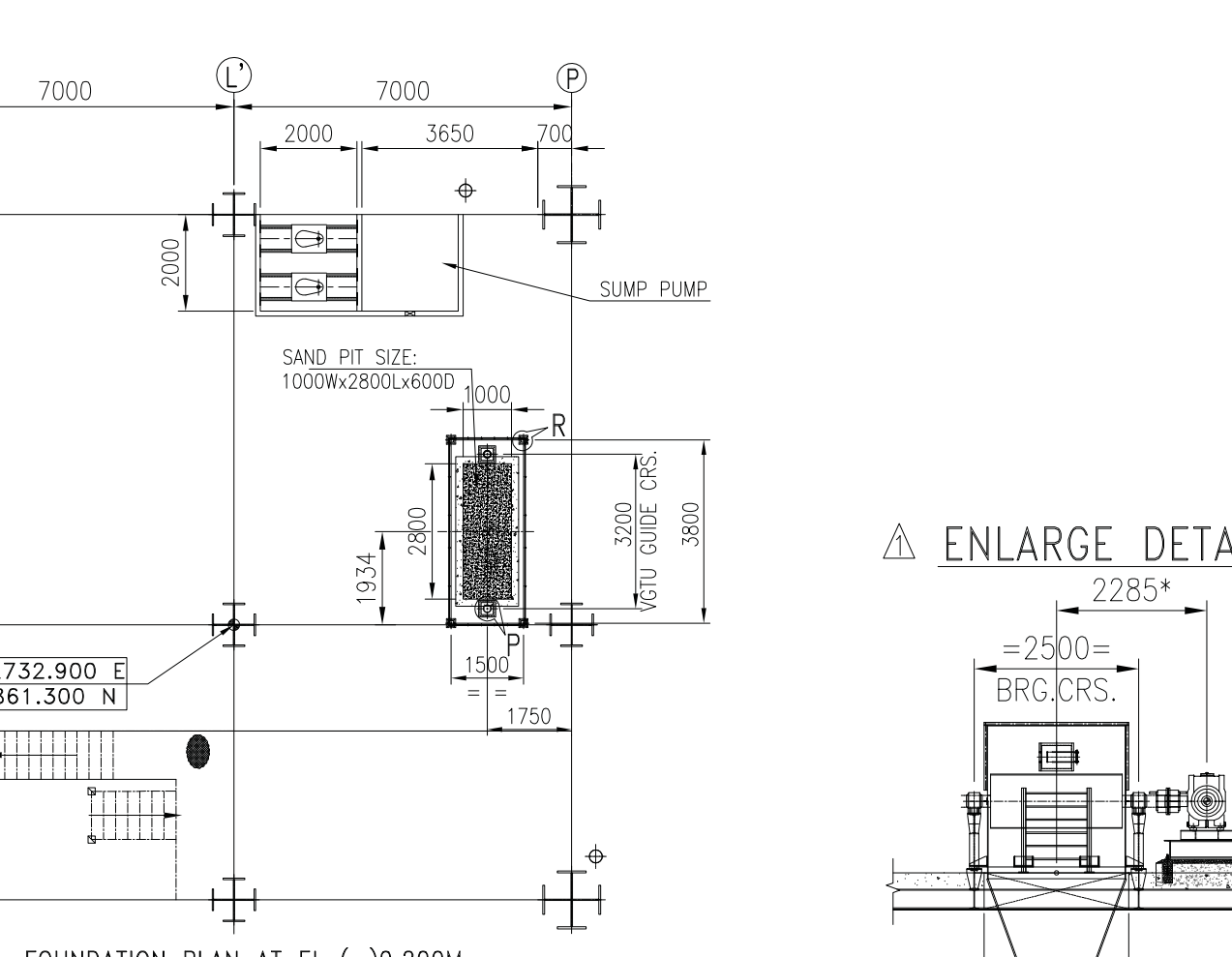
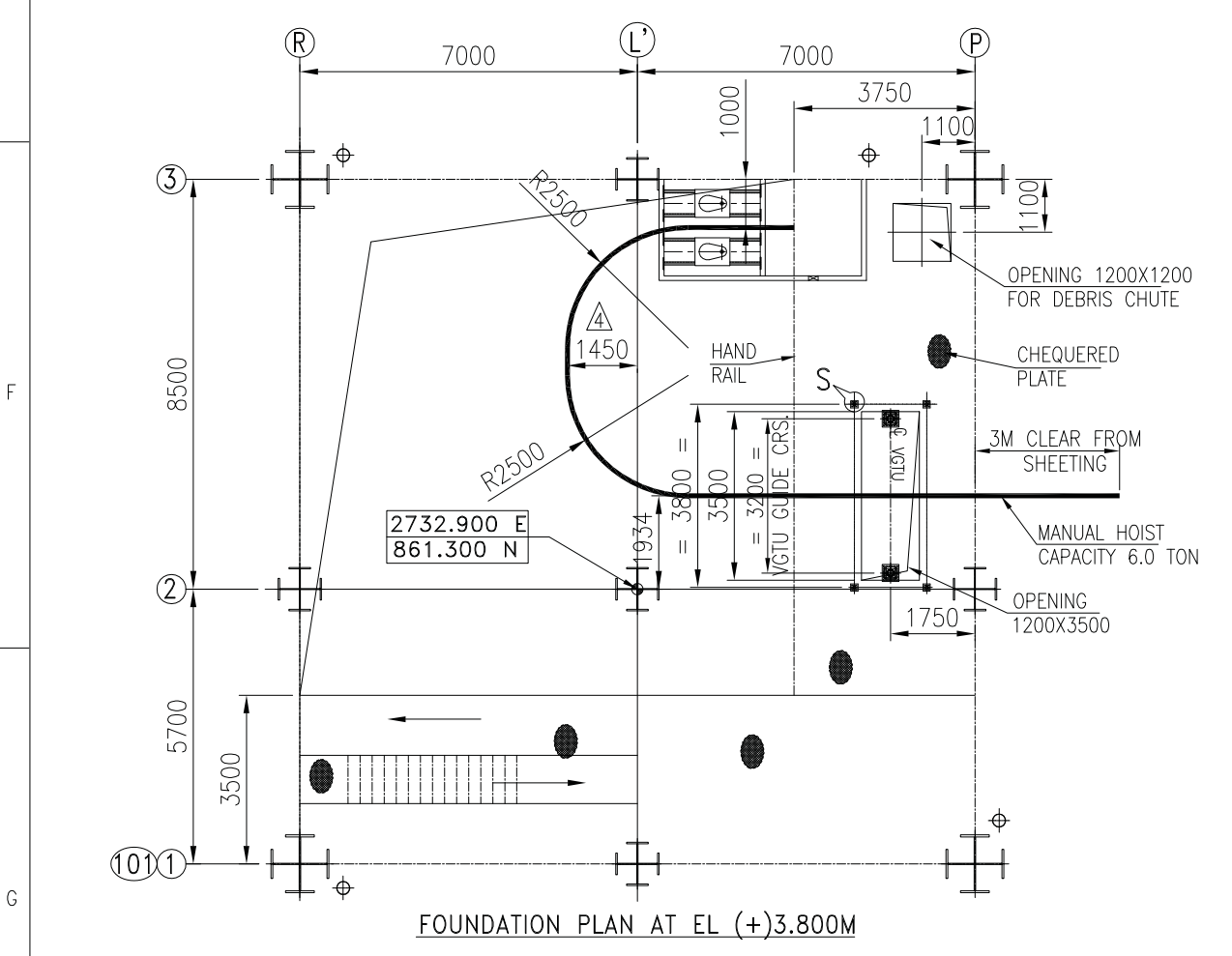
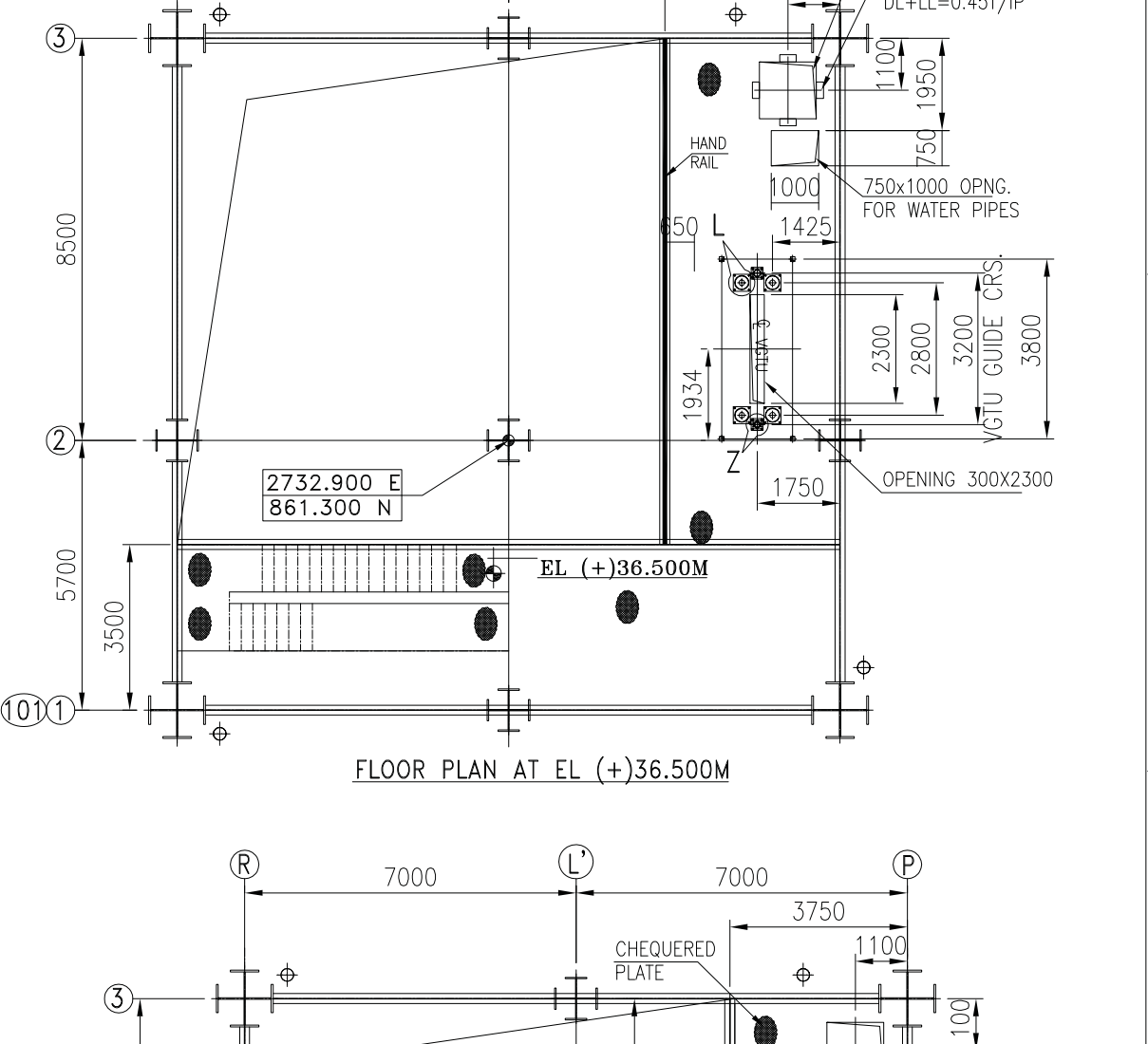
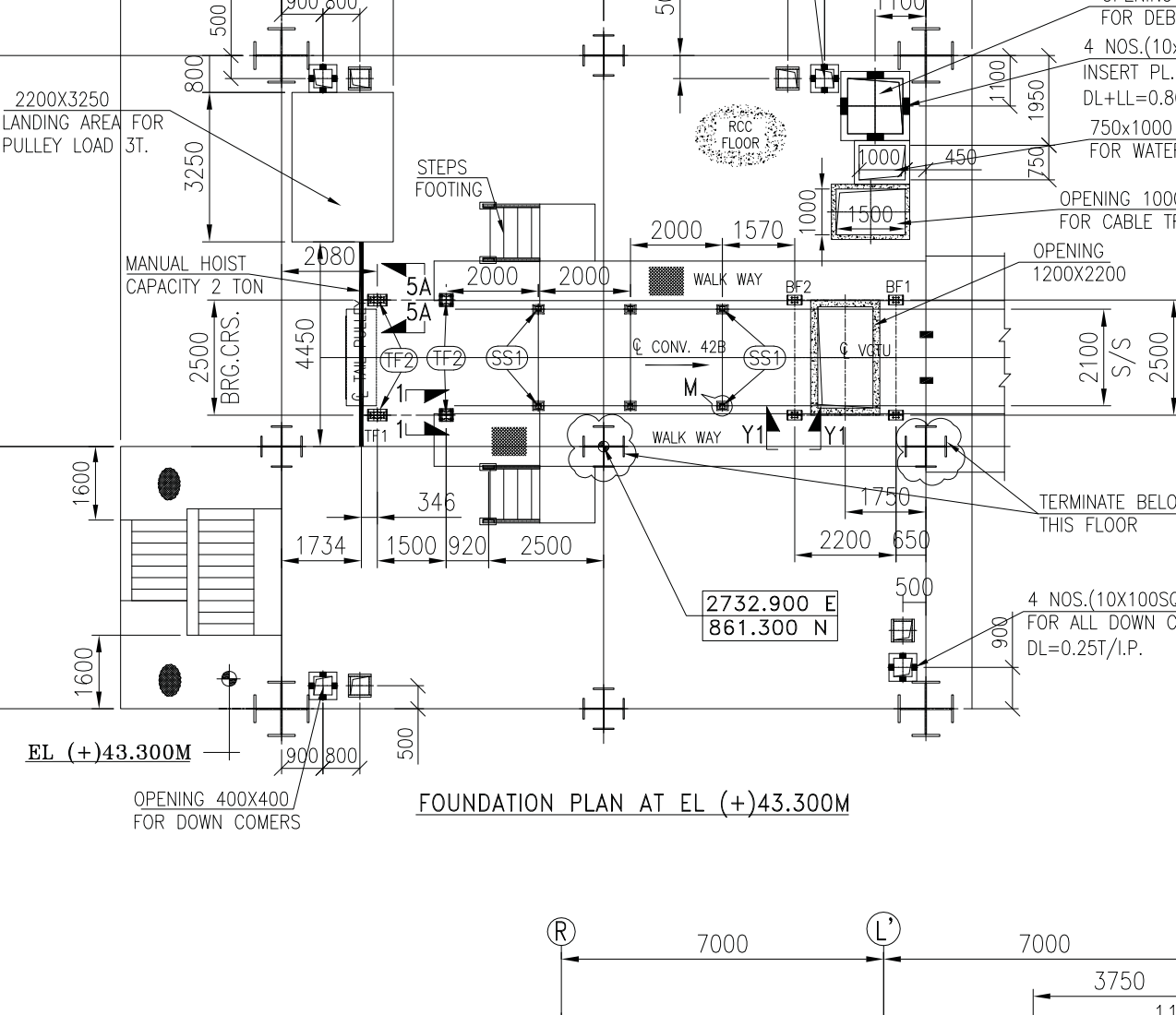
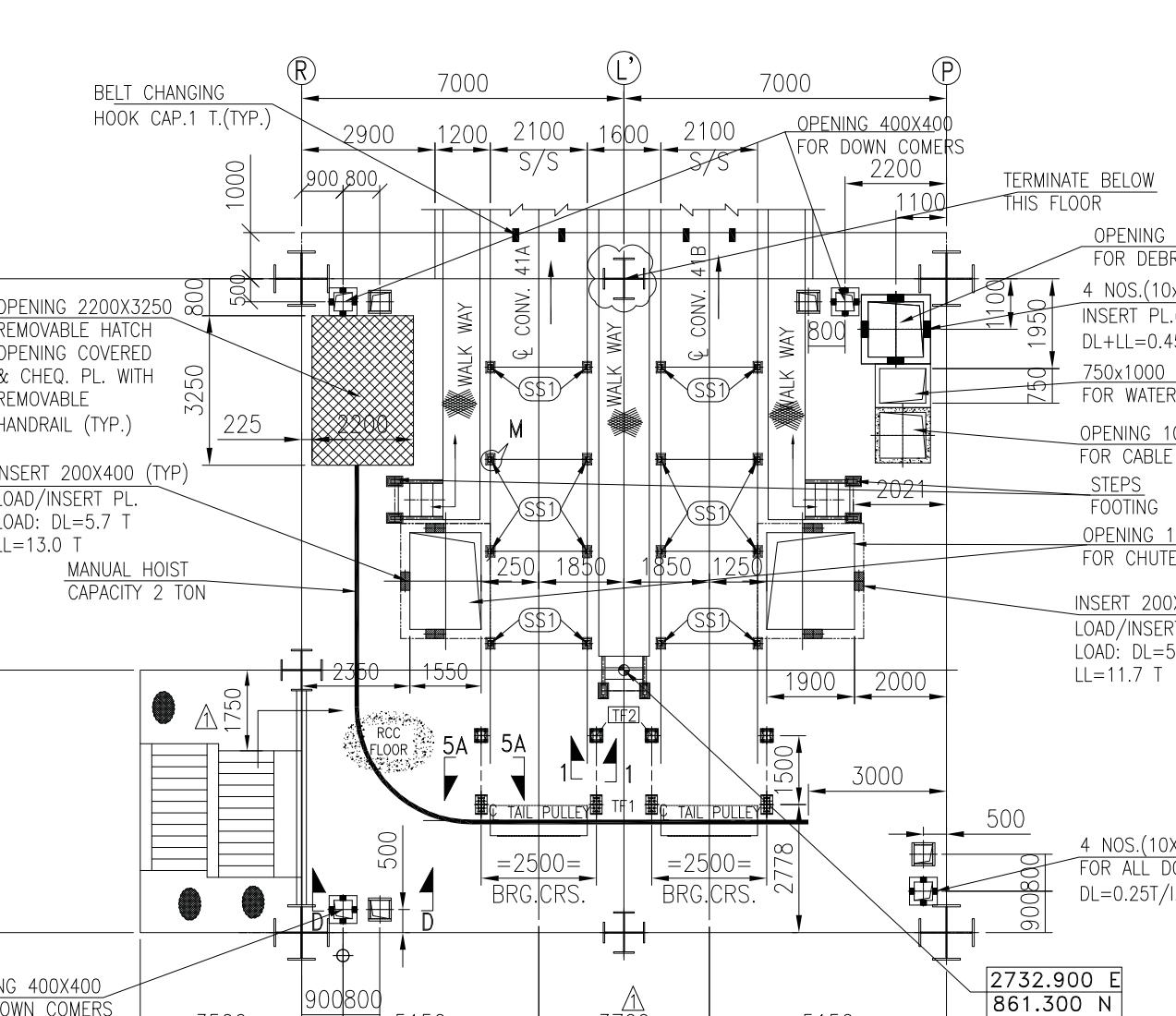
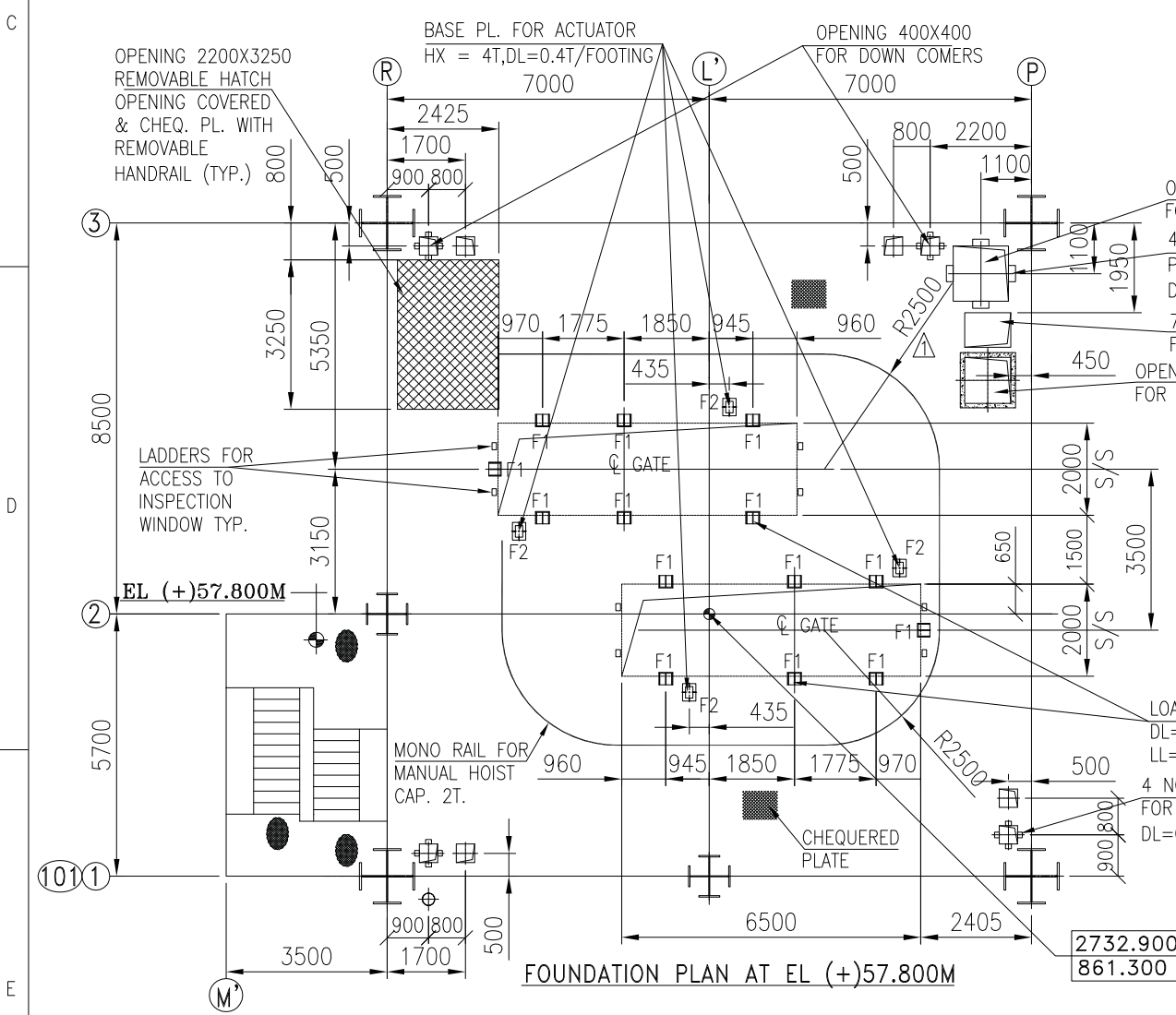
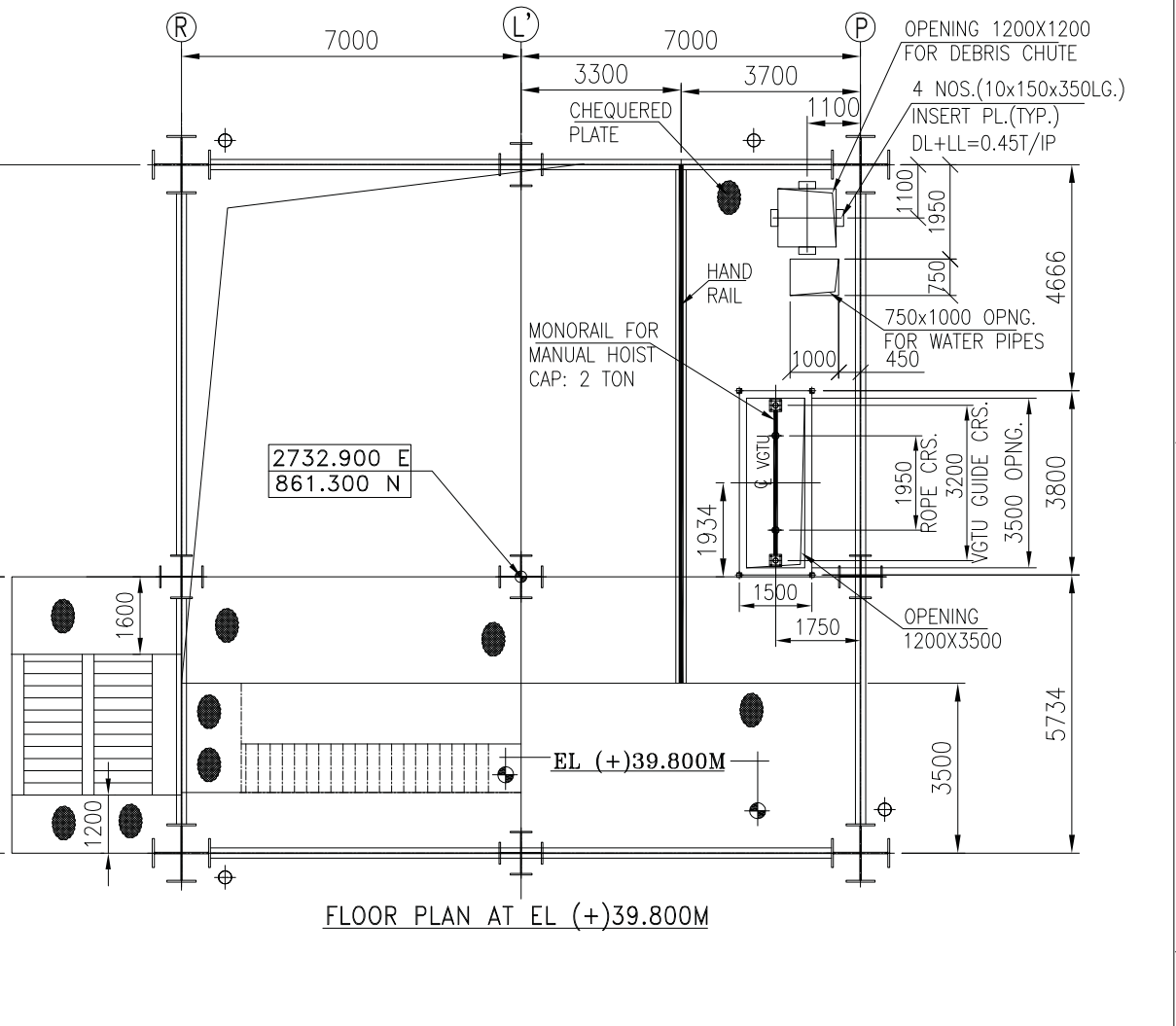
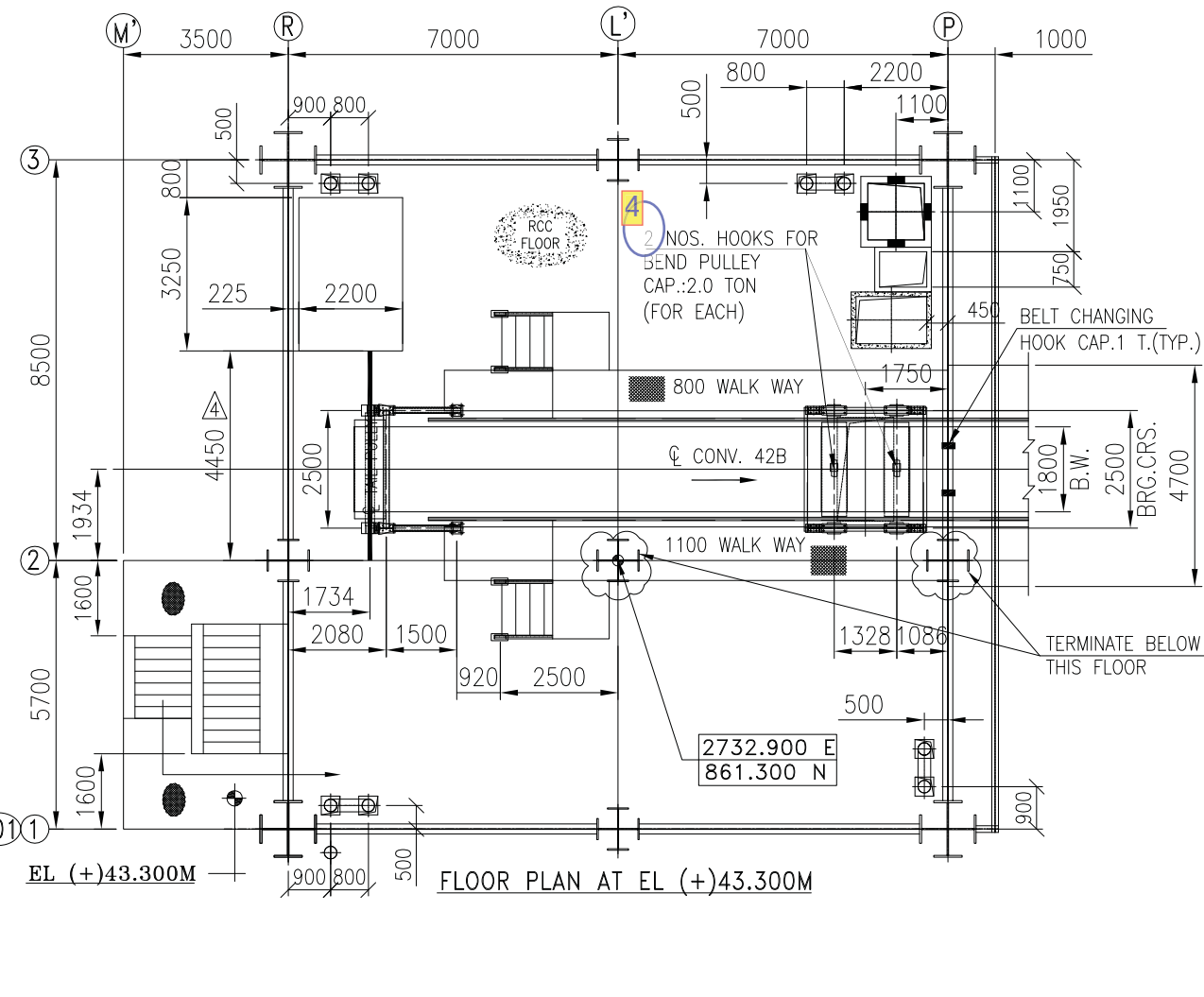
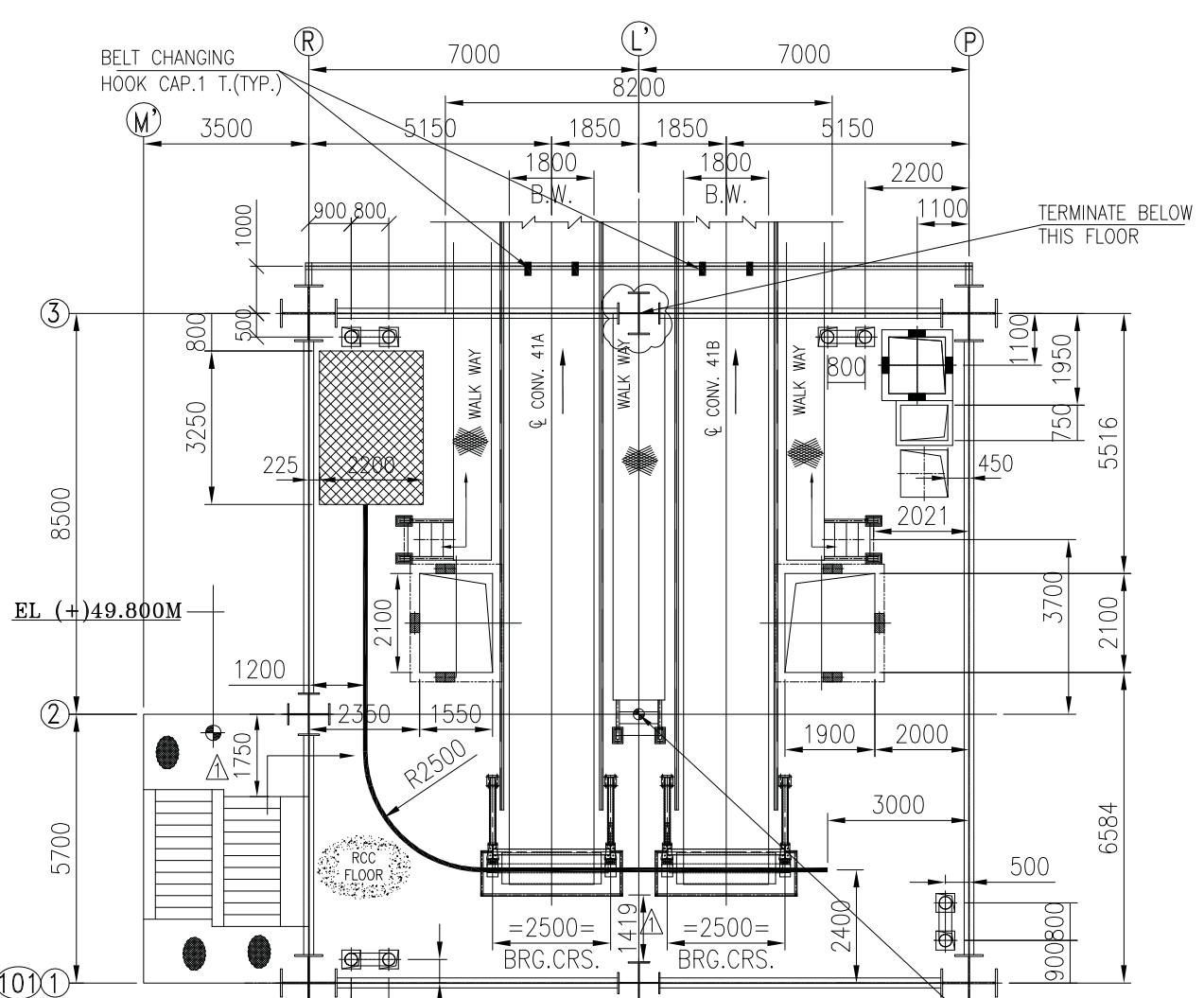
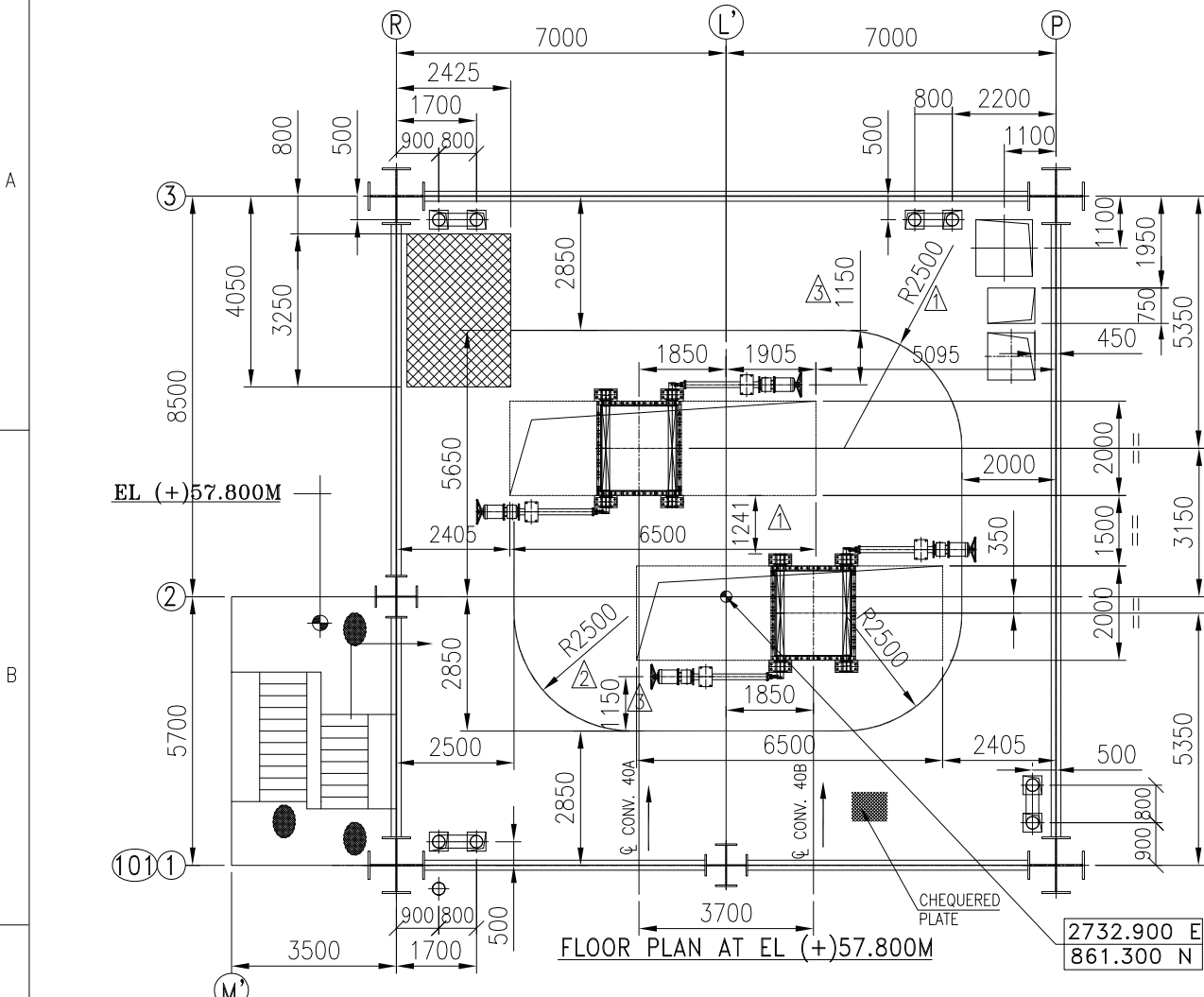
GA & LOAD DATA OF TP-39 (GA OF 2nd BUNKER TP)	IS-1-GA-701-104-M004
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SHEET NO.	1	NO.OF SHTS.
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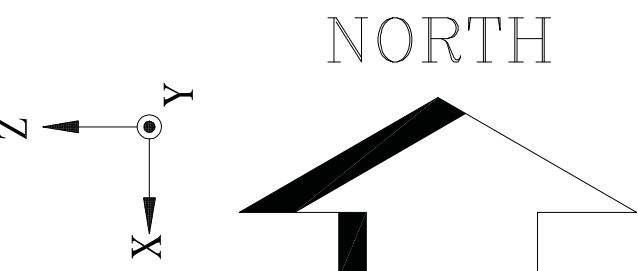
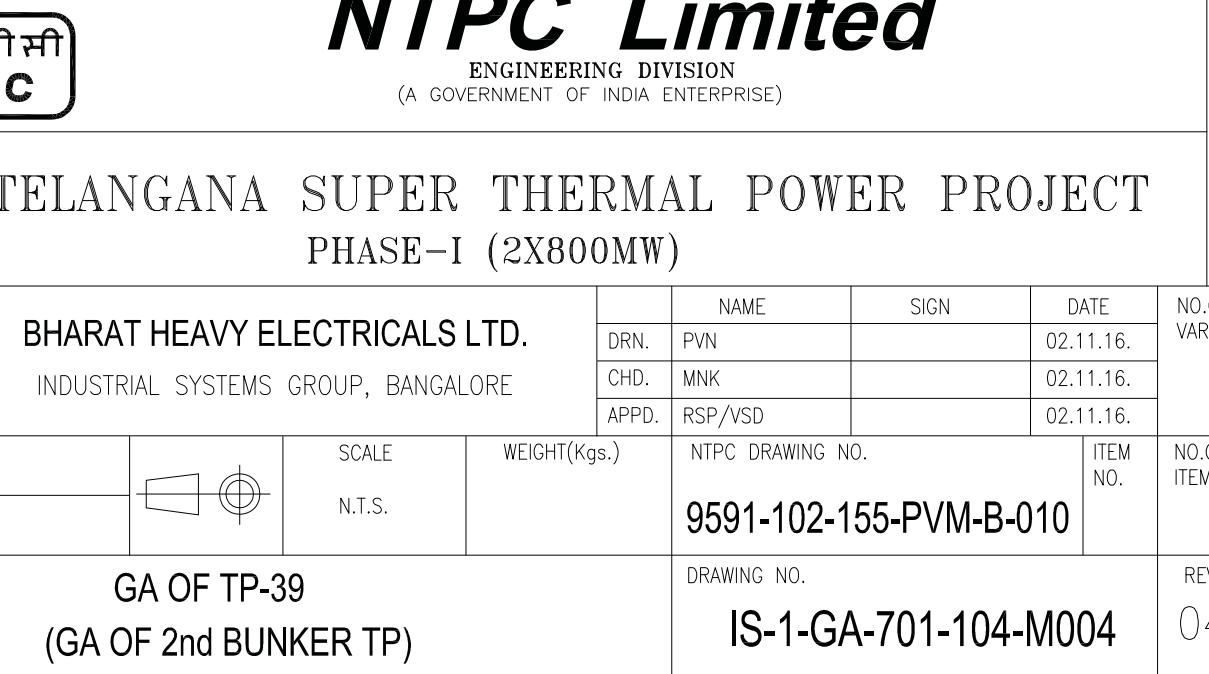
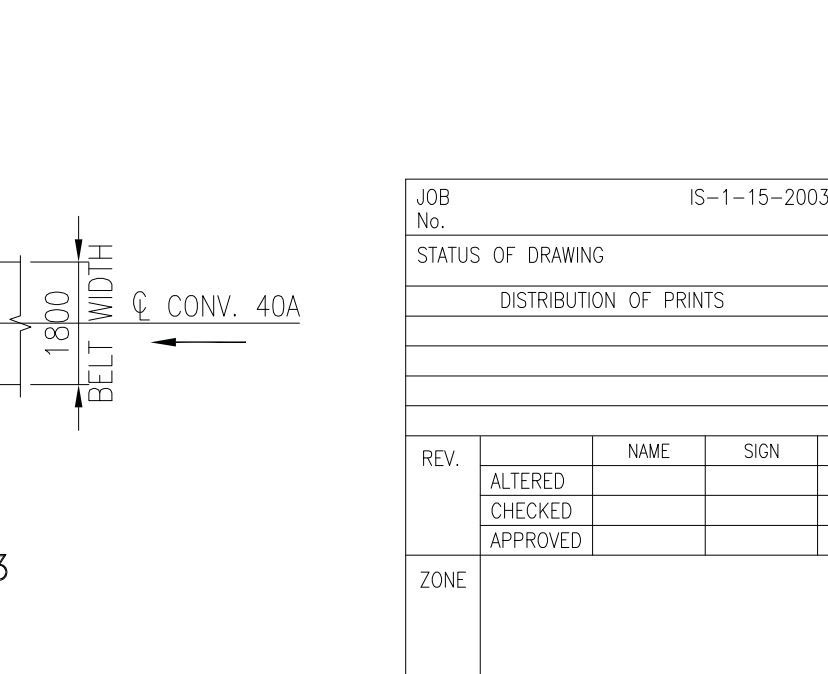
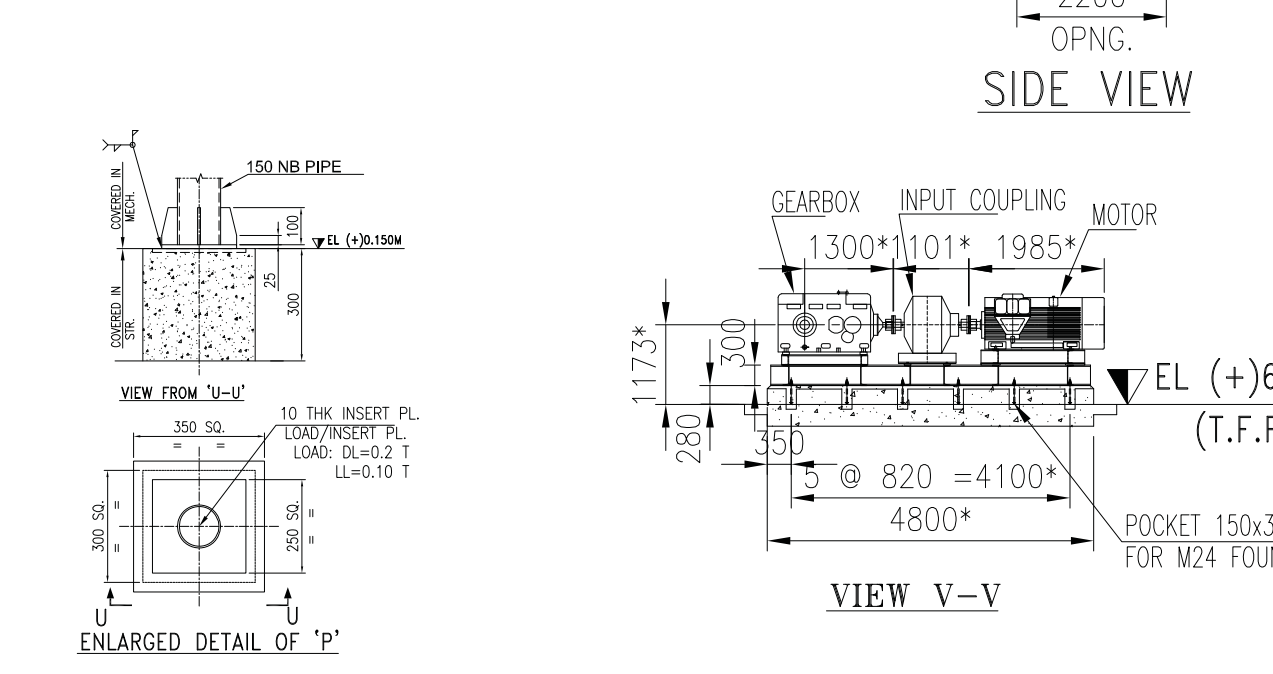
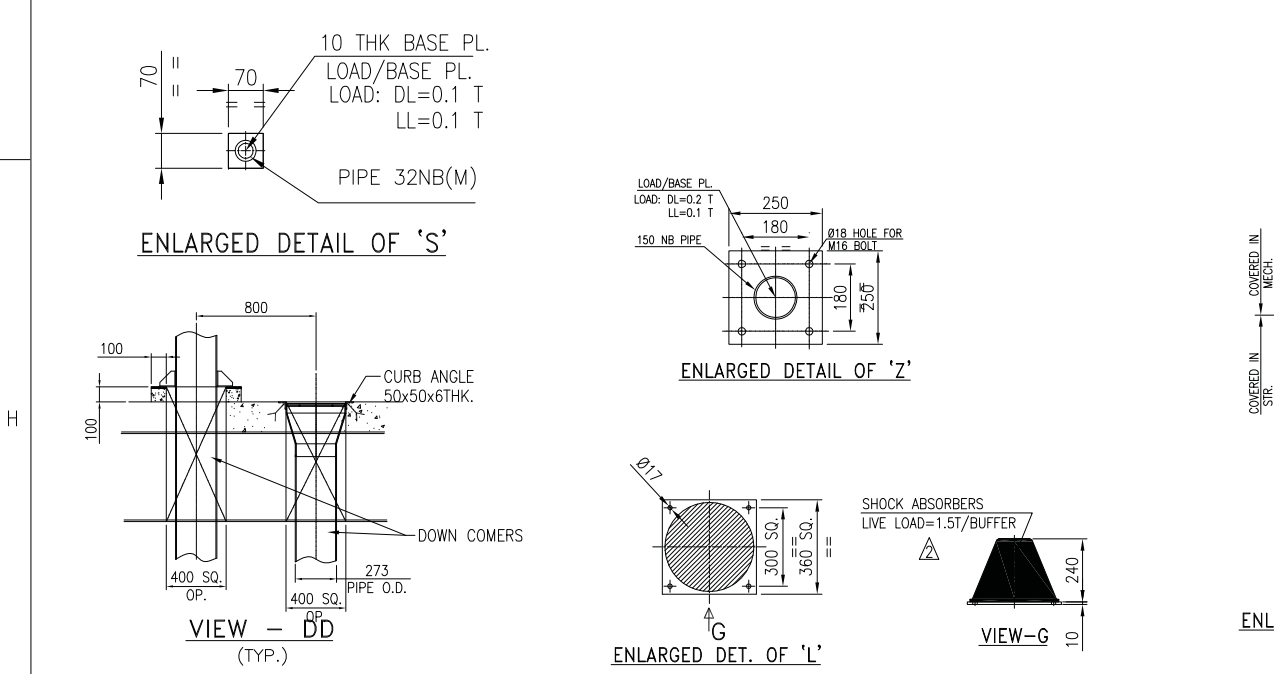
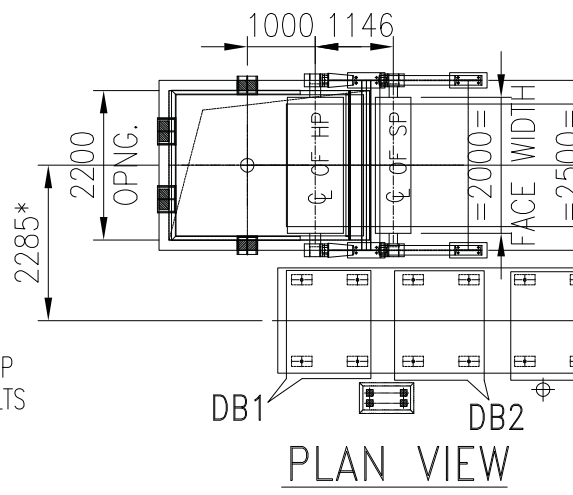
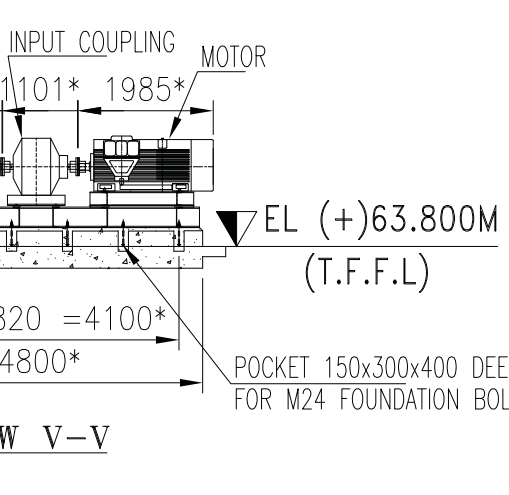
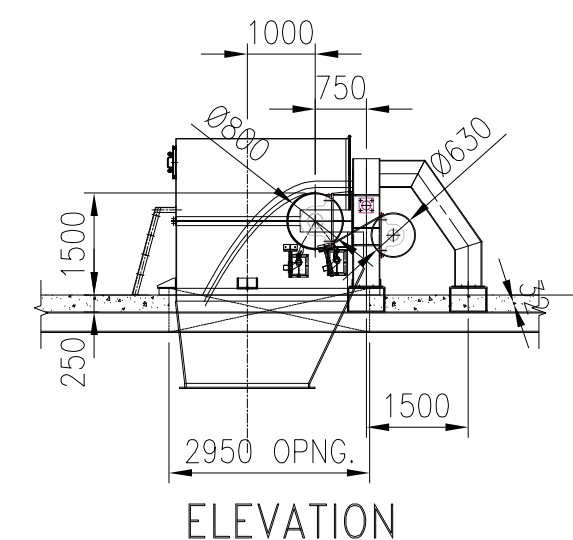
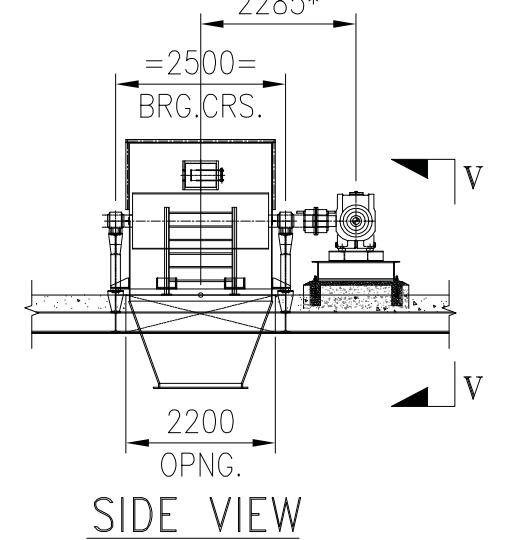
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IS-1-GA-701-104-M004

DO NOT SCALE. IF IN DOUBT, ASK.



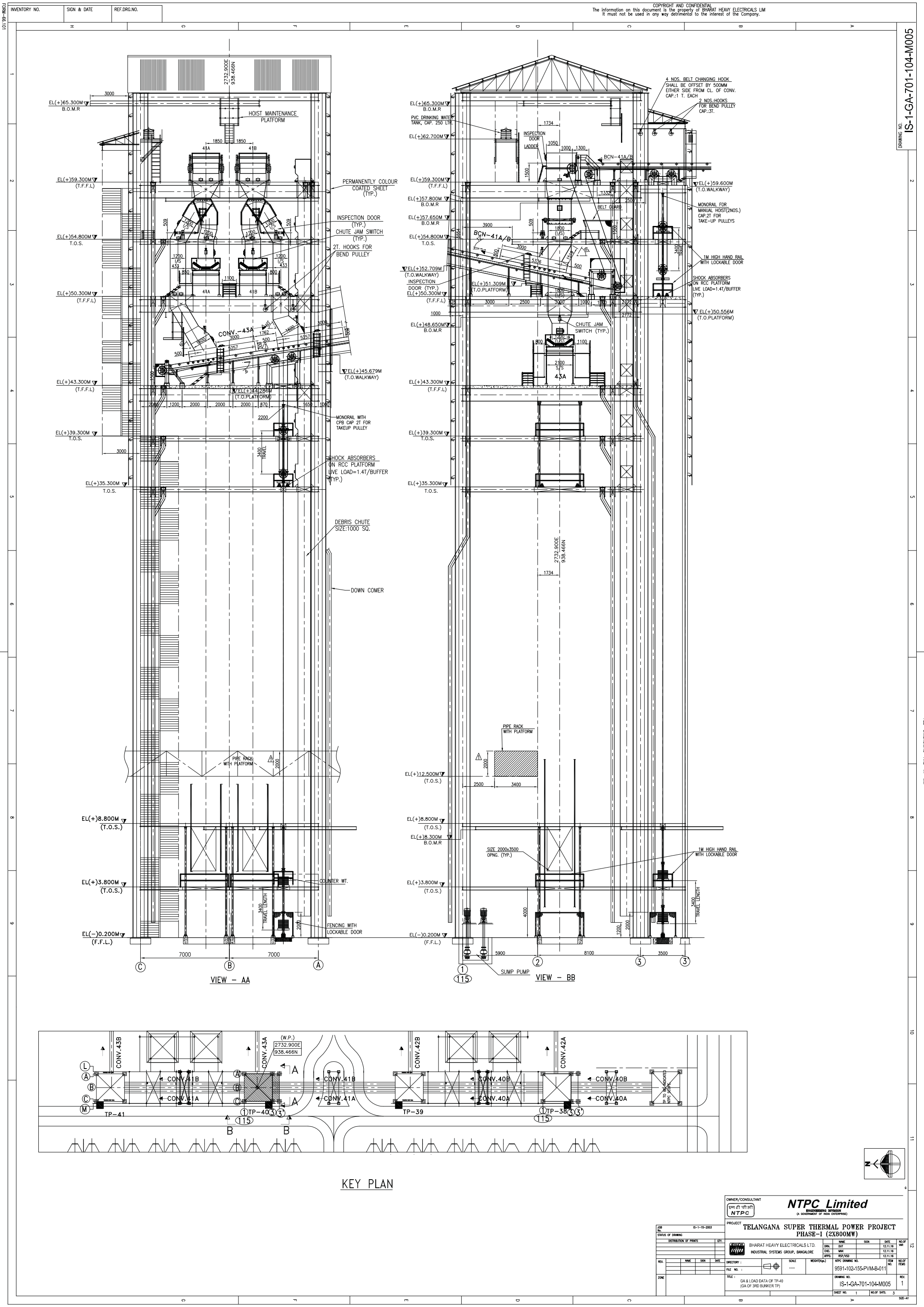
ENLARGE DETAIL OF HEAD FRAME



OWNER/CONSULTANT		NTPC Limited ENGINEERING DIVISION (A GOVERNMENT OF INDIA ENTERPRISE)			
PROJECT		TELANGANA SUPER THERMAL POWER PROJECT PHASE-I (2X800MW)			
Bharat Heavy Electricals Ltd. INDUSTRIAL SYSTEMS GROUP, BANGALORE		NAME	SIGN	DATE	NO OF VAR
		DRN.	PVN	02.11.16.	
		CHD.	MNK	02.11.16.	
		APPD.	RSP/VSD	02.11.16.	
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FILE NO. :		9591-102-155-PVM-B-010			
TITLE :		GA OF TP-39 (GA OF 2nd BUNKER TP)		DRAWING NO.	REV.
		IS-1-GA-701-104-M004			04
SHEET NO.		2	NO OF SHTS.	2	SIZE-A1

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



IS-1-GA-701-104-M005

ON INMAY30

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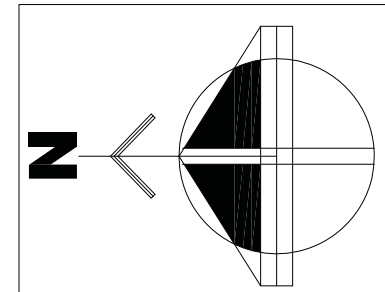
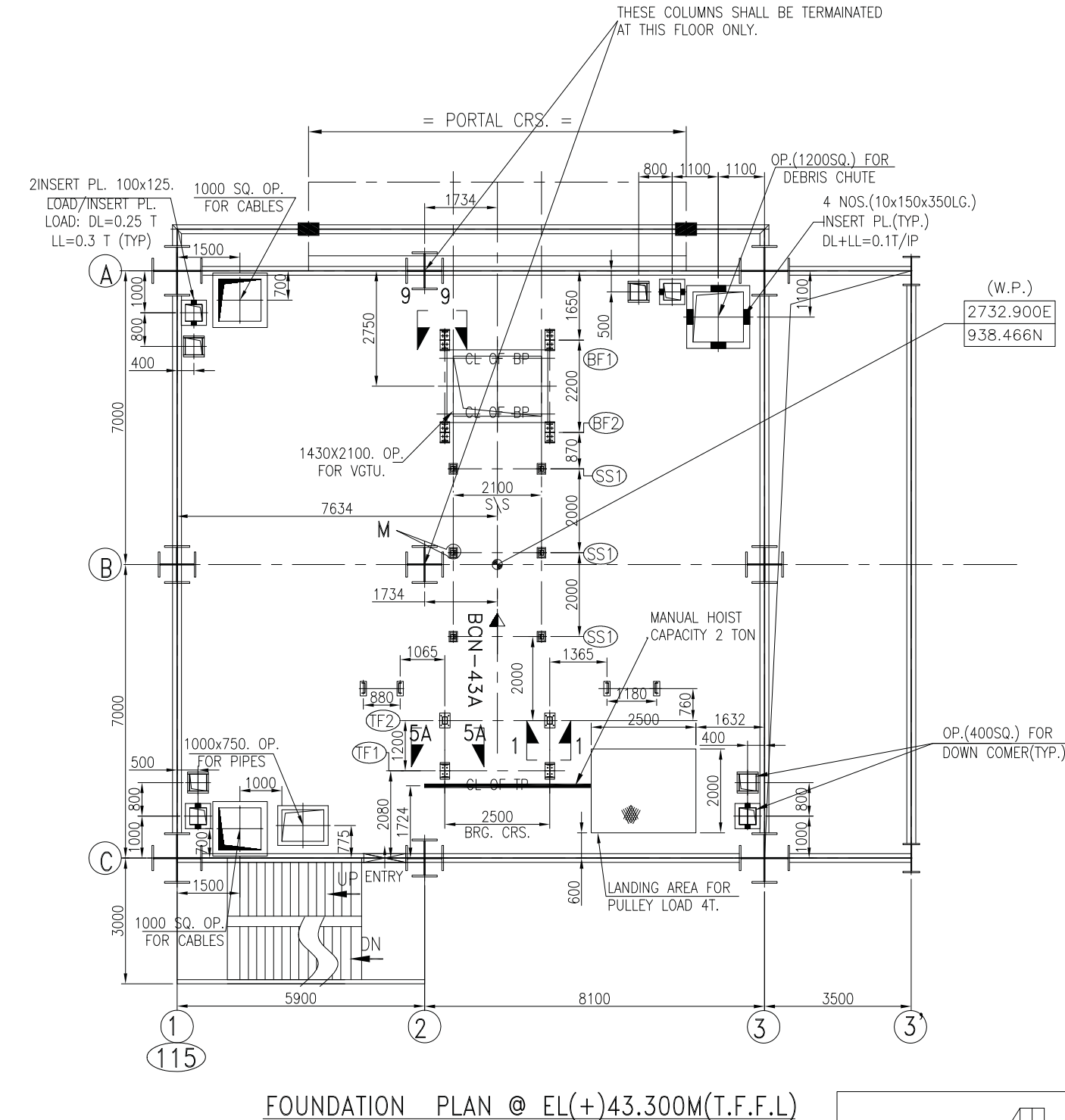
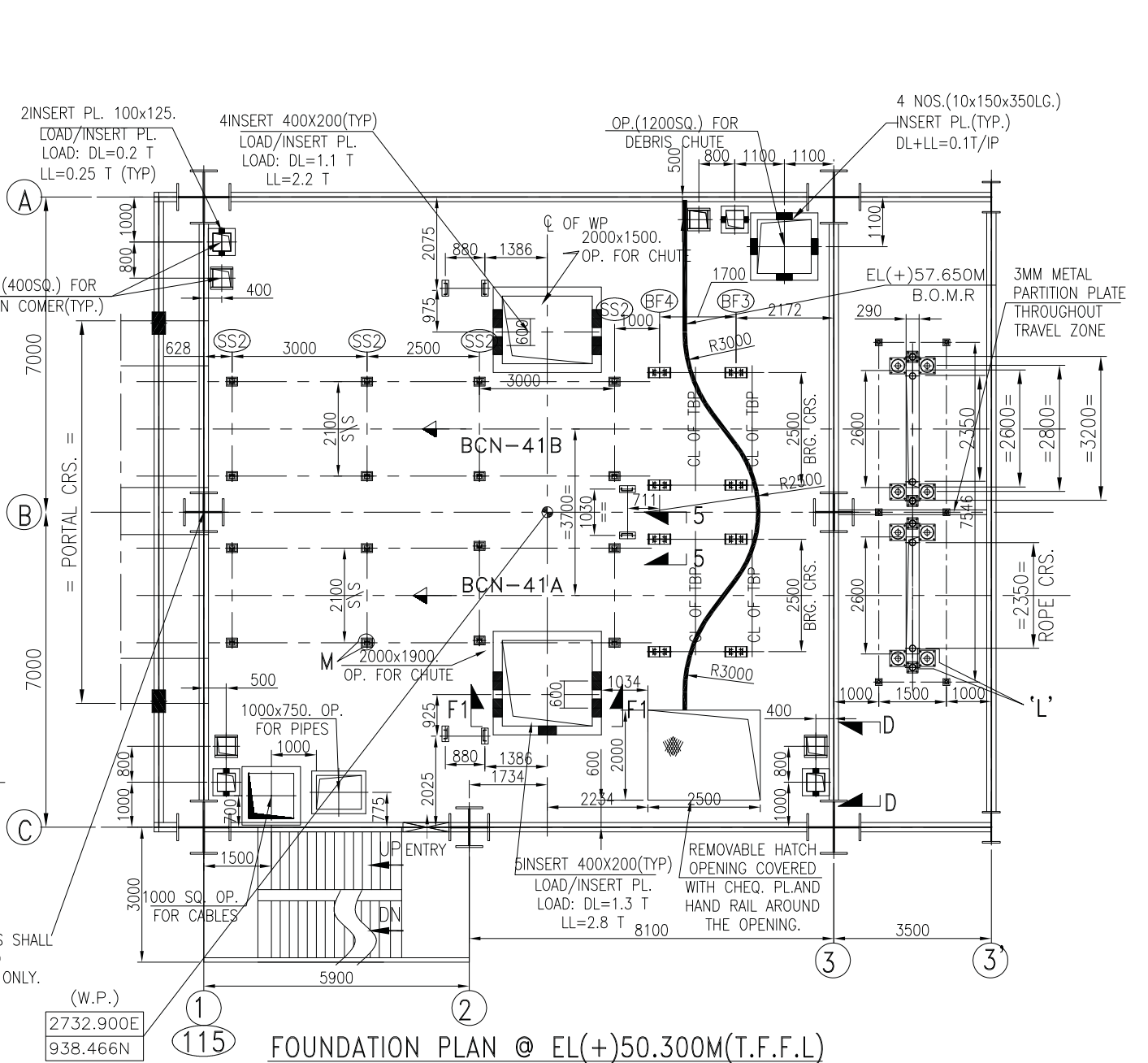
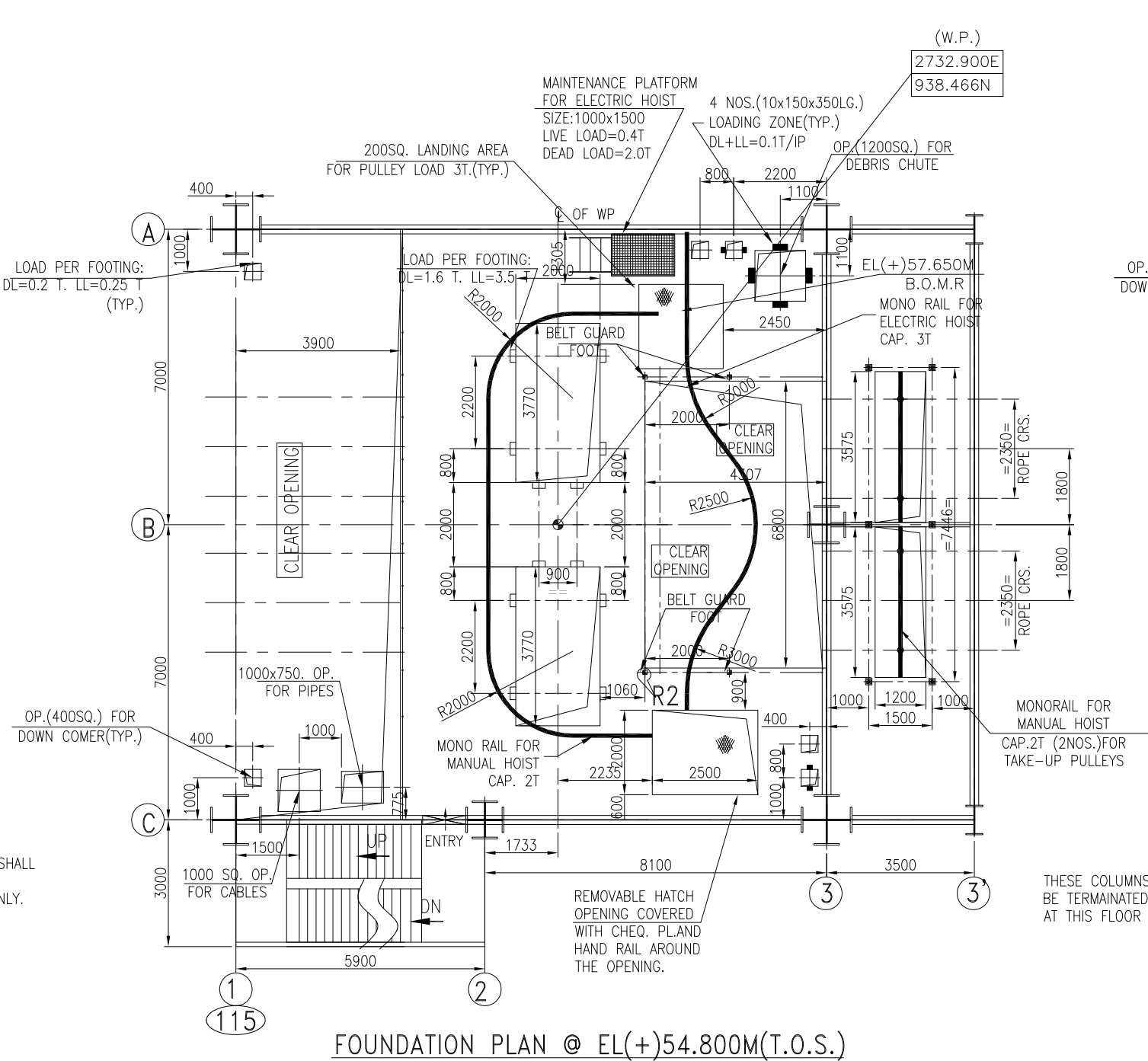
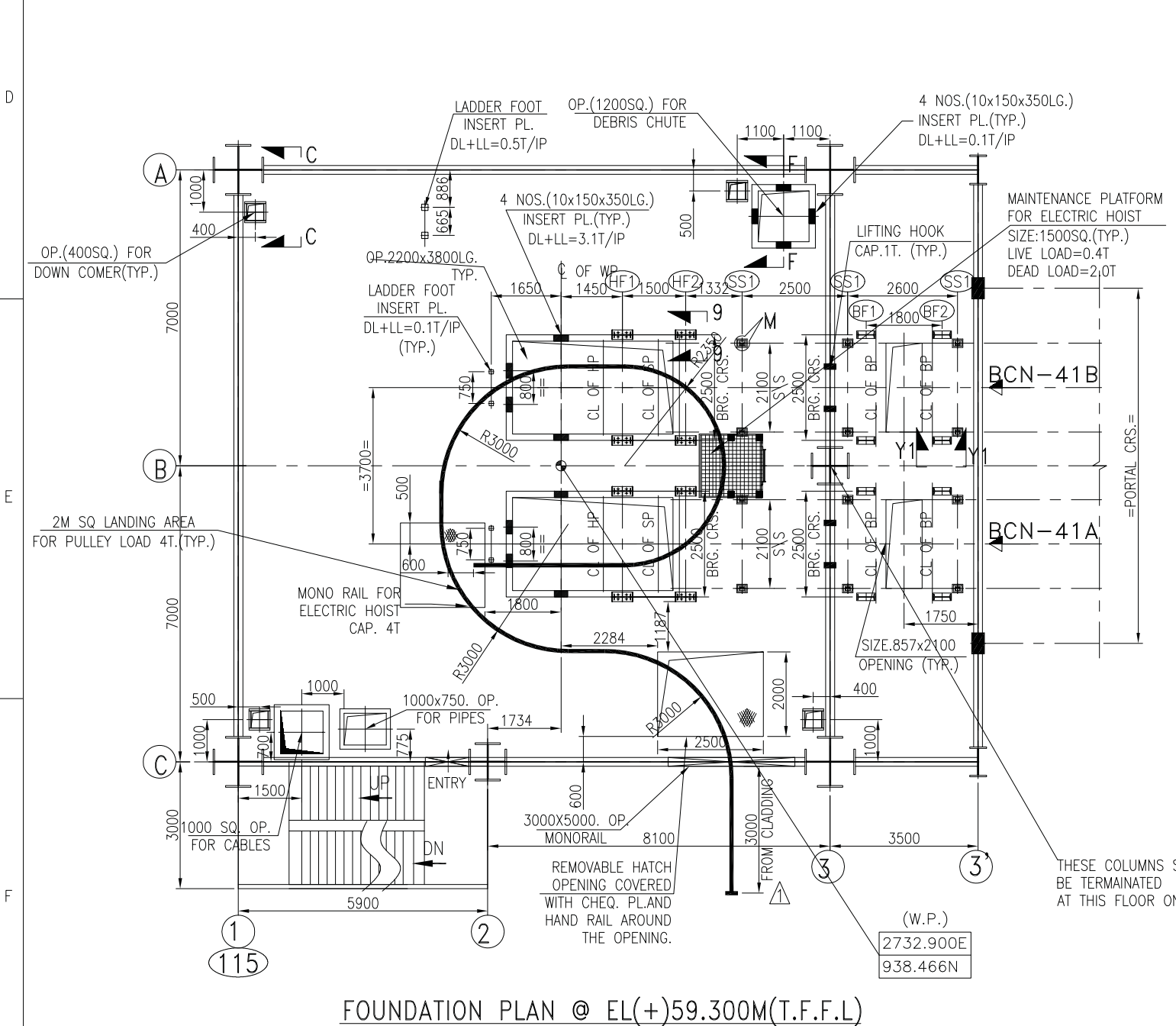
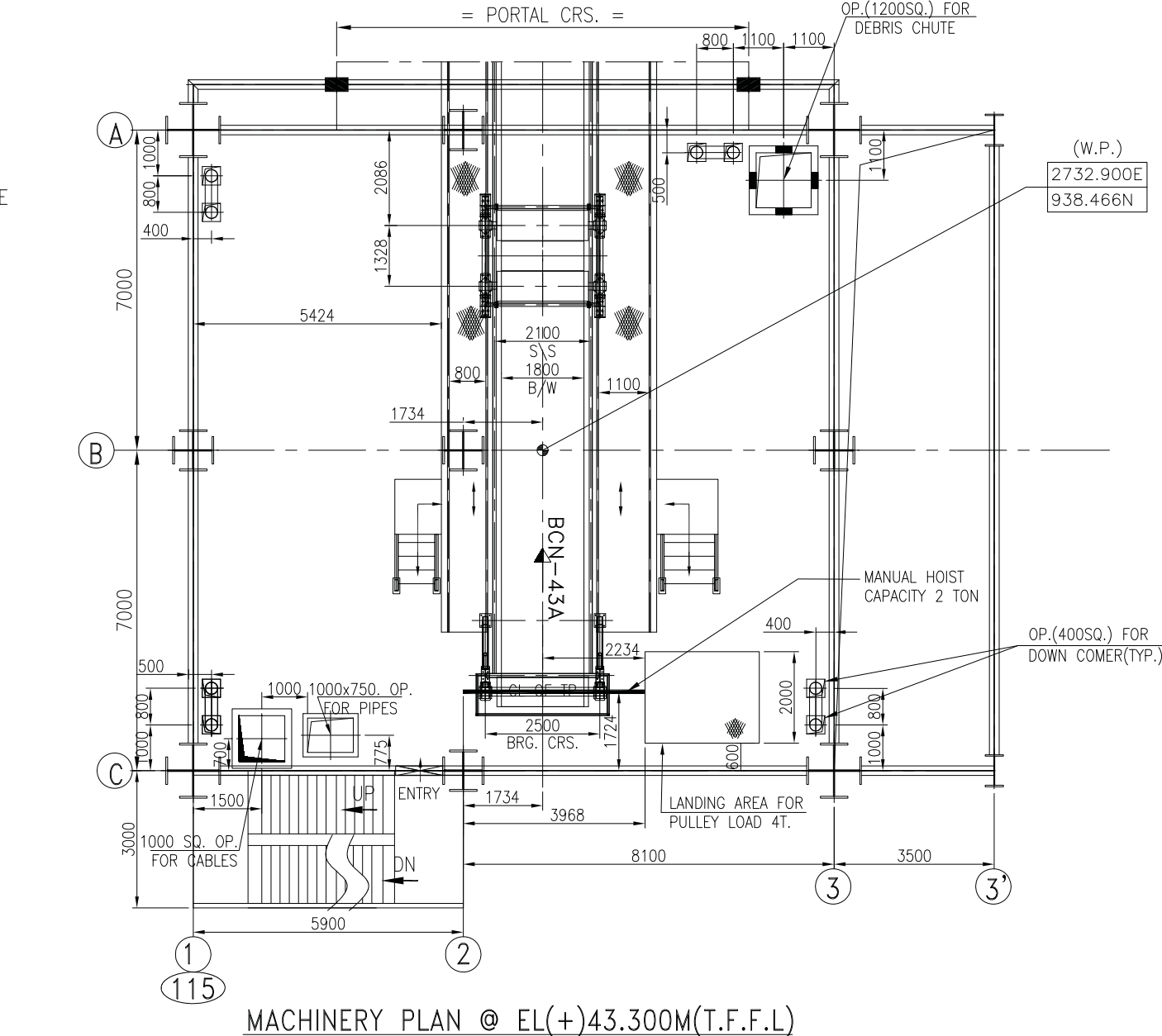
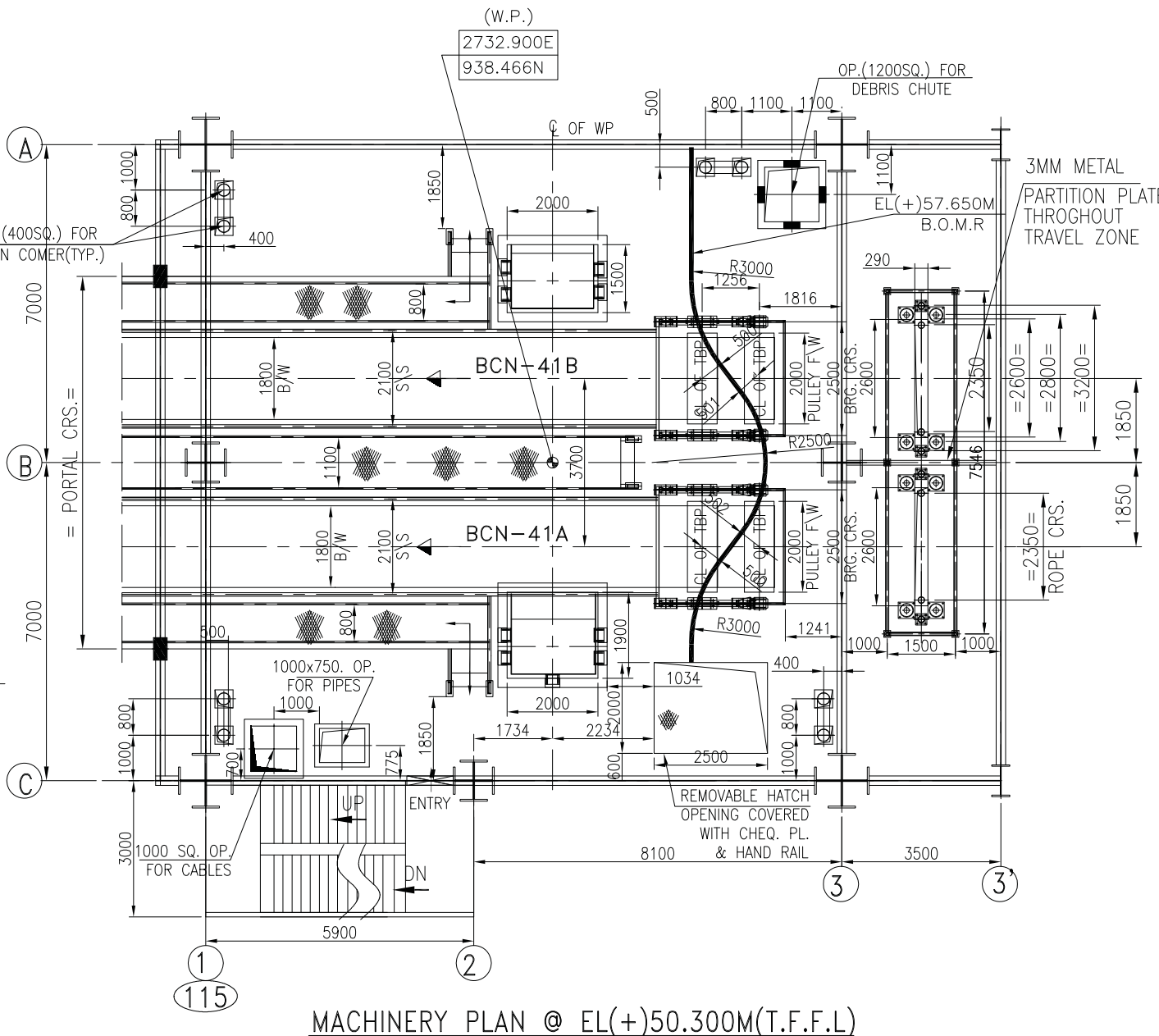
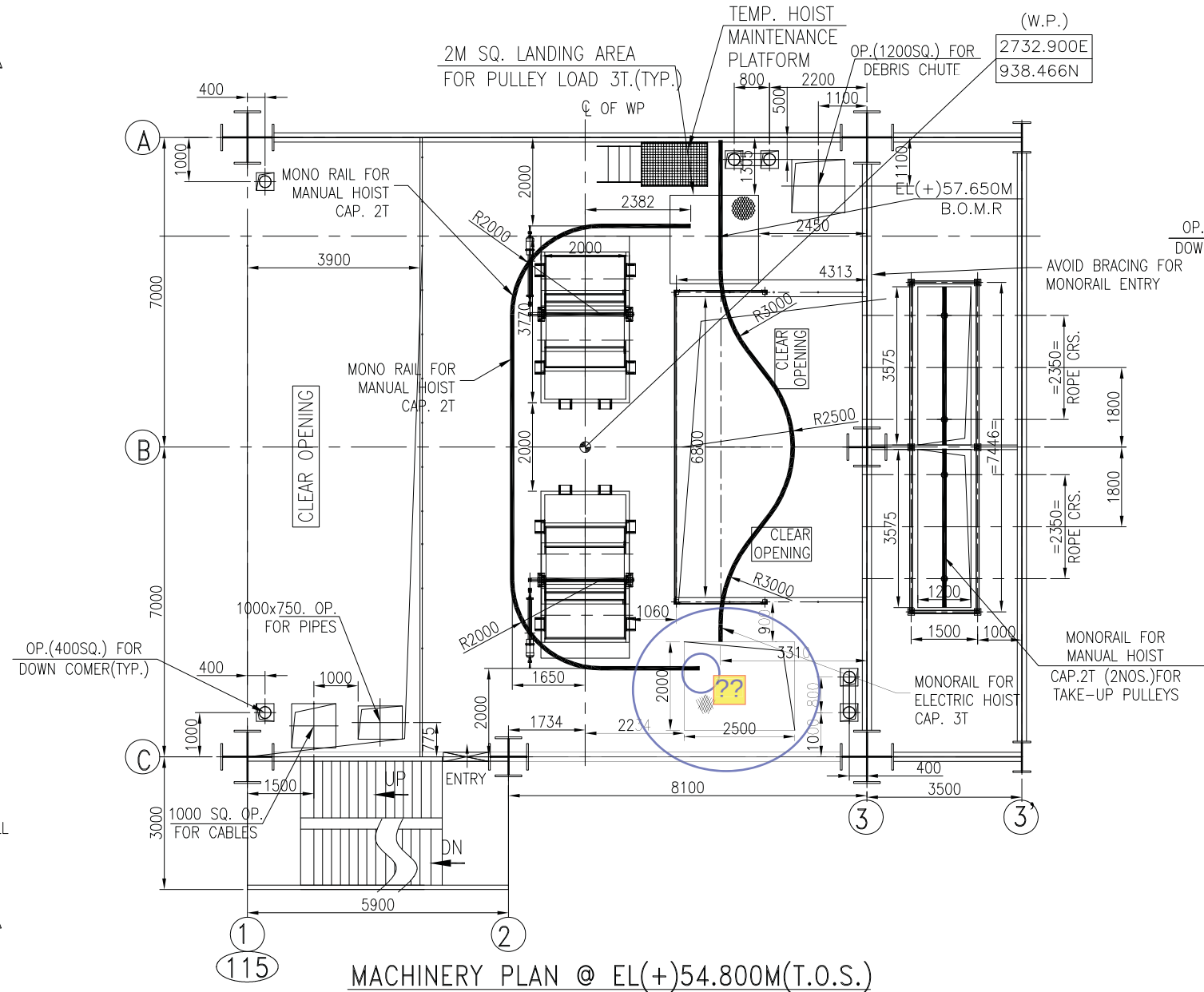
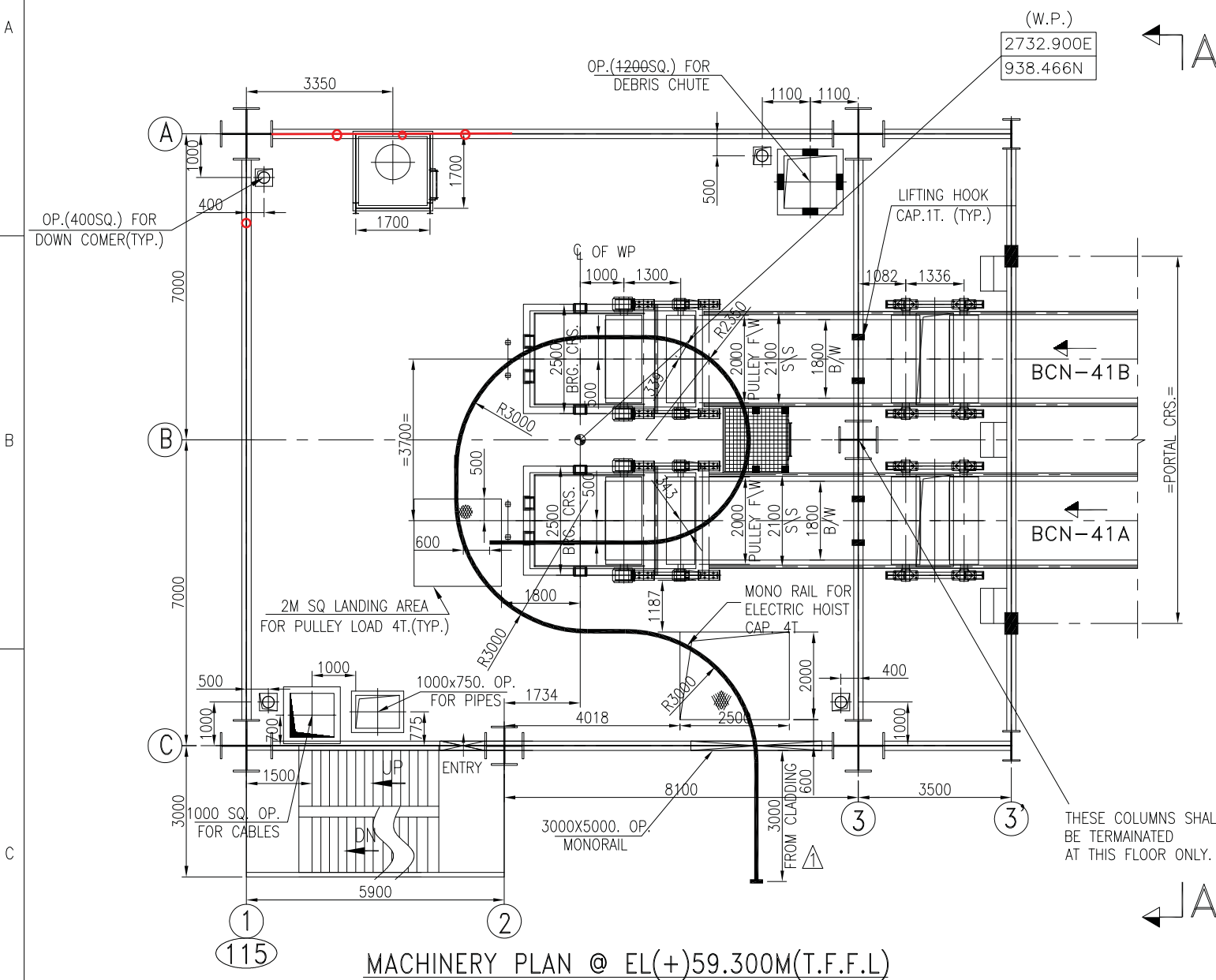
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NOTES

- EL+0.0M CORRESPONDS TO RL 149.0M IN MAIN PLANT AREA.
- ALL DIMENSIONS ARE IN MM & LEVELS ARE IN M.
- FIXED ROLLER SHALL BE PROVIDED AT RETURN SIDE OF CONV GALLERY AT SUITABLE LOCATION FOR LAYING OF NEW BELT.
- TAKE-UP SHALL BE PROVIDED WITH MARK UP SCALE TO MONITOR THE BELT STRETCH.
- ALL THE FLOOR OPENINGS SHALL BE PROVIDED WITH ISA 50X50X6 CURB ANGLE & 100mm HIGH CURB WALL.
- ALL THE FLOOR OPENINGS SHALL BE PROVIDED WITH HANDRAIL.
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- GUARD TO BE PROVIDED TO ALL PULLEYS.
- LENGTH OF SKIRT BOARD SHALL BE FINALISED BASED ON DFDS SYSTEM REQUIREMENT.
- 3mm PARTITION PLATE SHALL BE PROVIDED IN THE TAKE-UP PULLEY TRAVEL ZONE BY BHEL/BHEL'S MECHANICAL VENDOR.
- HOIST CAP. NO. OF FALL, LIFT, MONORAIL BEAM SIZE AND TAG NO. SHALL BE INDICATED IN HOIST SCHEDULE.
- LOAD & GALLERY PORTALS COMING ON T.P. SHALL BE INDICATED IN STRUCTURAL DRG.
- SUPPORT FOR DEBRIS CHUTE FROM INTERMEDIATE BEAMS SHALL BE FINALISED BASED ON STRUCTURE DRG.
- CHUTE LOADS ARE FOR CLOGGED CONDITIONS FOR BOTH CHUTES.
- VTU GUIDE TO BE SUPPORTED AT EVERY MAINTENANCE PLATFORM.
- MAINTENANCE PLATFORM FOR VTU, INTERMEDIATE FLOOR, VTU GUIDE AND GUIDE PIPE, ACCESS DOOR, MONORAIL FOR HANDLING TAKE-UP AND AND COUNTER WEIGHT SHALL BE PROVIDED BY BHEL/BHEL'S MECHANICAL VENDOR.

LOAD DATA IN TONNES PER LEG(APPLICABLE FOR ALL SHEETS):-

CONV. SUPPORTS													
FOOTING W/O LOAD(TON)	CONV. BCN-41A/41B								CONV. BCN-43A				
	HF1	HF2	BF1	BF2	BF3	BF4	SS1	SS2	TF1	TF2	BF1	BF2	SS1
DEAD LOAD	2.3	0.9	1.2	1.2	2.0	1.2	0.6	0.6	1.6	0.4	1	1	0.6
LIVE LOAD	0.2	0.2	0.4	0.2	0.2	0.76	0.76	0.15	0.15	0.3	0.3	0.3	0.76
Hx	7.2	7.2	-	-	-9.3	-9.3	-	-	-	-	-	-	-
(Best pull/Starting Conds)	6	6	0.1	0.1	-7.8	-7.8	0.18	0.18	-2.3	-2.3	0.10	0.10	0.18
(Best pull/Normal Conds)	5.6	8.6	-	-	-6.4	-8.0	-	-	-	-	-	-	-
Vy	4.6	7.1	3.2	3.2	-5.4	-6.6	-	-	-7.3	8.9	2.8	2.3	-

OWNER/CONSULTANT

**NTPC Limited**ENGINEERING DIVISION
(A GOVERNMENT OF INDIA ENTERPRISE)

PROJECT

TELANGANA SUPER THERMAL POWER PROJECT
PHASE-I (2X800MW)

Bharat Heavy Electricals Ltd.

INDUSTRIAL SYSTEMS GROUP, BANGALORE

REV.

ALtered

CHECKED

APPROVED

ZONE

NAME

SIGN

DATE

NO OF

VAR

ITEMS

REV.

1

SHEET NO.

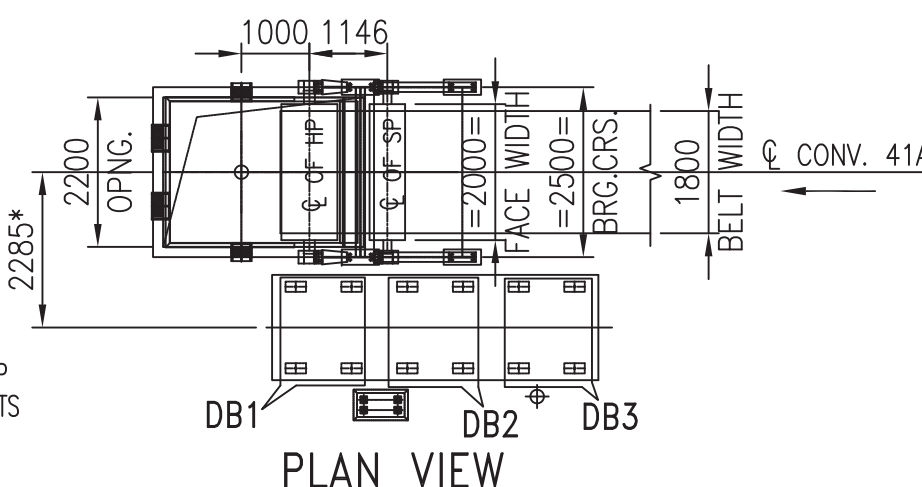
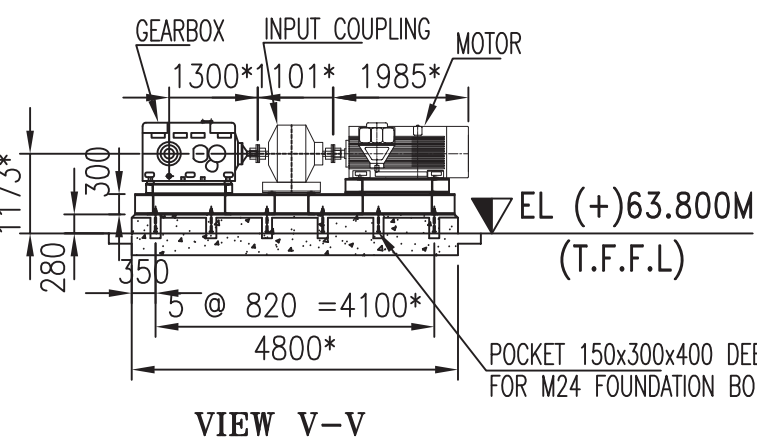
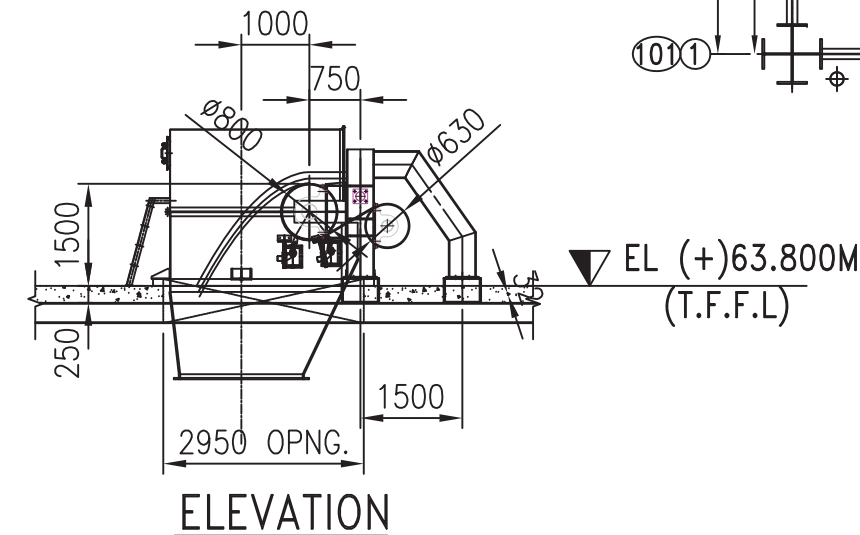
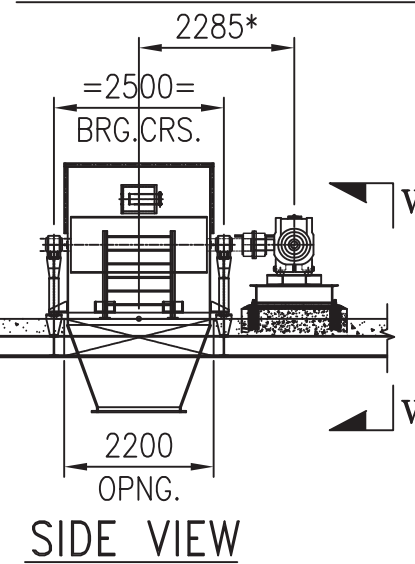
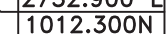
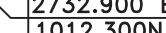
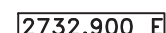
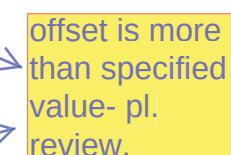
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NO OF SHTS.

3

SIZE-A1

FORM-66-101

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