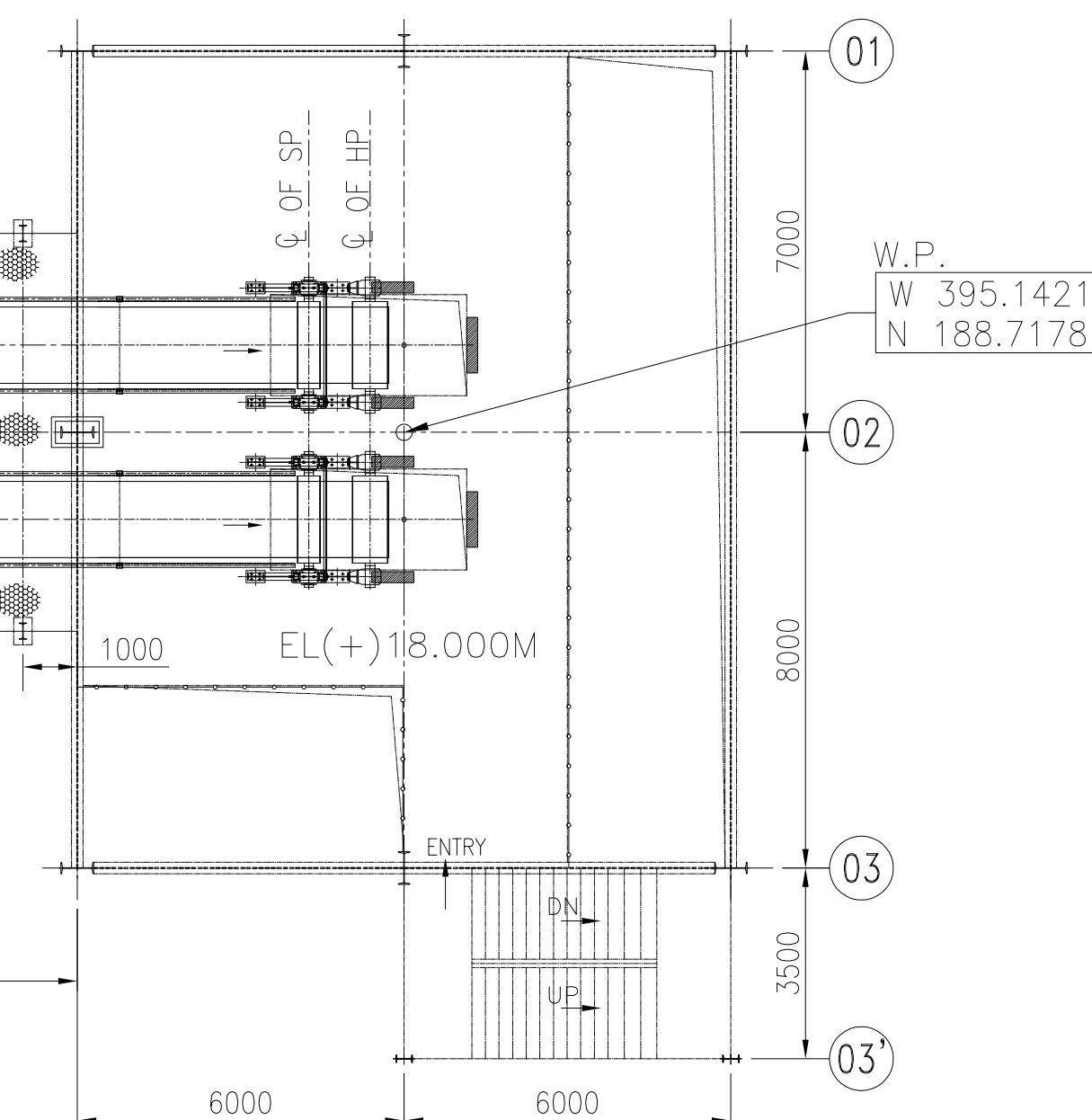
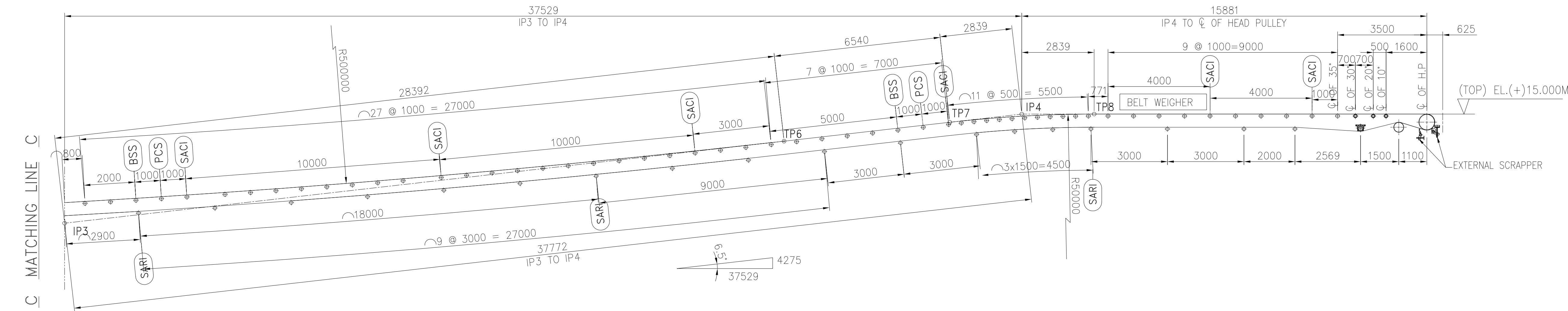




R.No:	DATE	BRIEF RECORD	BY	APP
REVISIONS				

OWNER:	TELANGANA STATE POWER GENERATION CORPORATION LTD.					
	HYDERABAD – TELANGANA, INDIA					04
CUSTOMER'S CONSULTANT	DEVELOPMENT CONSULTANTS PVT. LTD. CONSULTING ENGINEERS KOLKATA . MUMBAI . CHENNAI . NEW DELHI					01
						
PROJECT :	KOTHAGUDEM THERMAL POWER STATION STAGE-VII, UNIT # 12 (1x800 MW), KOTHAGUDEM, TELANGANA, INDIA COAL HANDLING SYSTEM PACKAGE					
EPC CONTRACTOR	BHARAT HEAVY ELECTRICALS LIMITED INDUSTRIAL SYSTEMS GROUP ISG-BANGALORE					
						
BHEL'S CONTRACTOR			NAME	SIGN	DATE	REV.
		DRN	PVN		11.09.15	00
		CHD	SSD		11.09.15	NO. OF VAR
		APP	RSP		11.09.15	01
					NO. OF SHEETS	05
					SHEET. NO.	01
PB	TITLE : GA OF BC#5A/5B					
	SCALE:		BHEL JOB NO. IS-1-14-2006		BHEL-ISG DRG. NO.	IS-1-A-GA-690-101-M011
						REV.



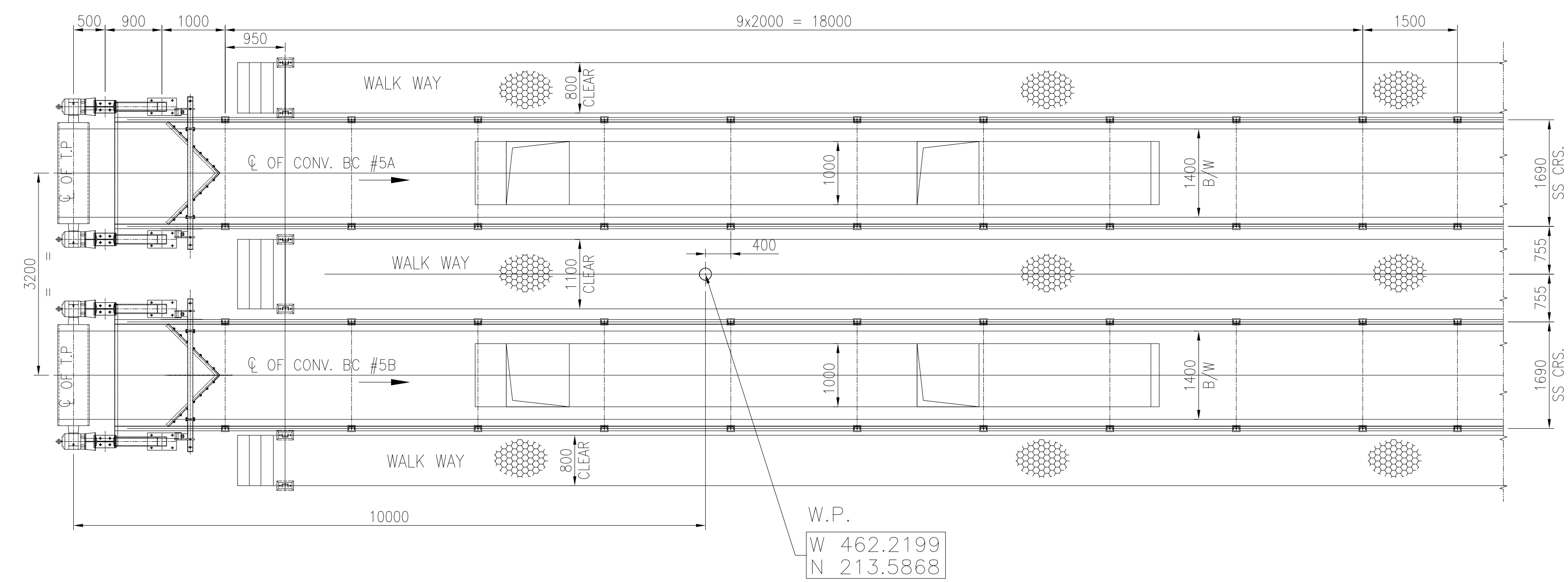
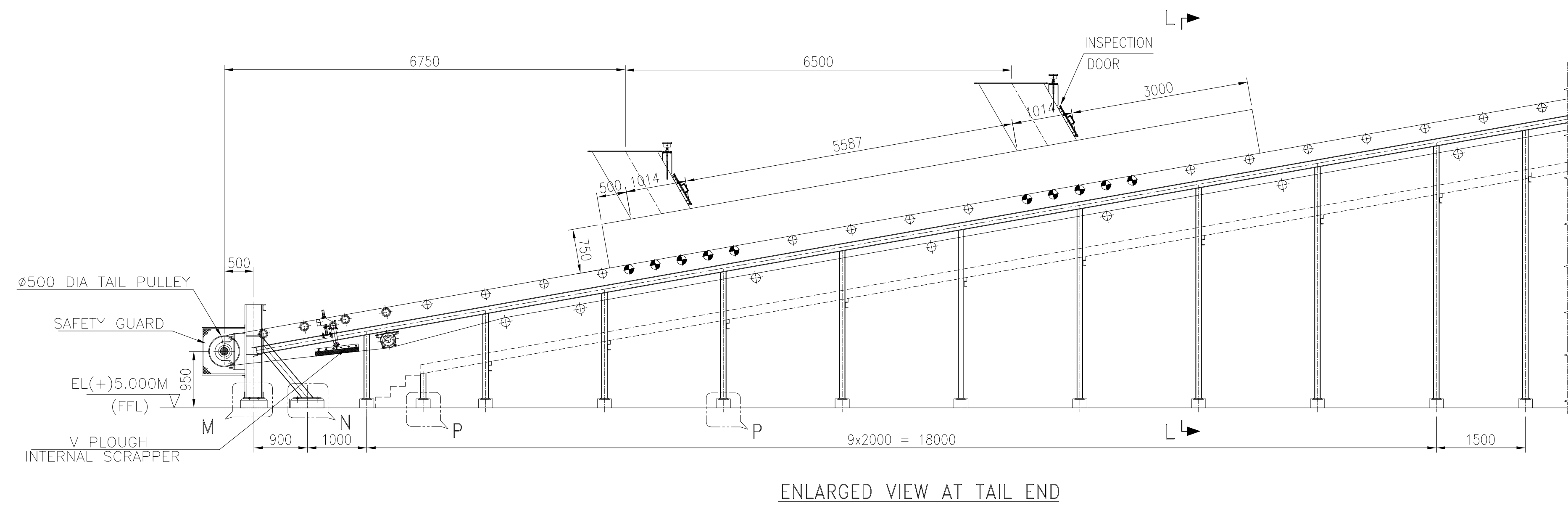
H.P = HEAD PULLEY	S.A.C.I = SELF ALIGNING CARRYING IDLER
T.P = TAIL PULLEY	S.A.R.I = SELF ALIGNING RETURN IDLER
S.P = SNUB PULLEY	S.C.R.I = SELF CLEANING RETURN IDLER
C.I = CARRYING IDLER	PCS = PULL CHORD SWITCH
T.I = TRANSITION IDLER	BSS = BELT SWAY SWITCH
R.I = RETURN IDLER	ZSS = ZERO SPEED SWITCH
I.I = IMPACT IDLER	
D.R = DEFLECTOR ROLLER	
W.P. = WORKING POINT	
T1 = TIGHT SIDE TENSION	
T2 = SLACK SIDE TENSION	
T3 = TAIL END TENSION	
Te = EFFECTIVE TENSION	
Ttu = TAKEUP TENSION	

TECHNICAL SPECIFICATION										QTY FOR EACH	
CONVEYOR IS:1592	CONVEYOR NO./EQUIPMENT NO.			BC #54/5B			1 NO. EACH				
	RATED CAPACITY/DESIGN CAPACITY (T.P.H)			1200/1320			--				
	BELT WIDTH (MM)/TROUGHING ANGLE			1400 / 35 DEG			--				
	VERTICAL LIFT (MM)			13300 + 8775 + 4275			--				
	HORIZONTAL CRS. (MM)			231385			--				
	PROFILE LENGTH (MM)			257808			--				
	ENDLESS BELT LENGTH(CONSIDERING SAG) (MM)			520881			--				
	SPEED (M/SEC.)			2.55			--				
	MATERIAL			COAL			--				
	MATERIAL HANDLED	BULK DENSITY FOR CONVEYOR SIZING (TON/CU.M)			0.8			--			
FOR STRUCTURAL DESIGN (TON/CU.M)			1.2			--					
LUMP SIZE (MM)			(-)20			--					
MOISTURE CONTENT			20%			--					
MATERIAL TEMP.			AMBIENT (MAX. 50°)			--					
TYPE MAKE			N/N 1000/4 GRADE-FR (AS PER CANADIAN BUREAU OF MINES, FRL-269/AS PER APPROVED VENDOR			--					
TOP COVER THICKNESS (MM)			5			--					
BOTTOM COVER THICKNESS (MM)			3			--					
BELT TENSION (N)			T1=110602.7, T2=40536.7, T3=53316.5, Te=70066, Ttu=93853			--					
TYPE OF JOINT			VULCANIZED			--					
PULLEYS (S-8531)	MM/NO.	DRIVE			#63X01600LG., 16TH(MIN.) SHELLEN-8/C-45 SHAFT,			1 No.			
		TAIL			#50X01600LG., 12TH(MIN.) SHELLEN-8/C-45 SHAFT,			1 No.			
		TAKE-UP			#50X01600LG., 12TH(MIN.) SHELLEN-8/C-45 SHAFT,			1 No.			
		TAKE-UP BEND			#400X1600LG., 12TH(MIN.) SHELLEN-8/C-45 SHAFT,			2 Nos.			
		SNUB			#400X1600LG., 12TH(MIN.) SHELLEN-8/C-45 SHAFT,			3 Nos.			
		FIXED TRIPPER HEAD			#63X01600LG., 16TH(MIN.) SHELLEN-8/C-45 SHAFT,			2 Nos.			
		FIXED TRIPPER TAIL			#50X01600LG., 12TH(MIN.) SHELLEN-8/C-45 SHAFT,			2 Nos.			
		FIXED TRIPPER BEND			#400X1600LG., 12TH(MIN.) SHELLEN-8/C-45 SHAFT,			2 Nos.			
		DRIVE PULLEY			12 MM DIAMOND GROOVE,SHORE HARDNESS 55-65 A			--			
		ALL OTHER PULLEYS			10 MM PLAIN NEOPRENE RUBBER SHORE HARDNESS 55-65 A			--			
SAGGING (THK/MM)		3 ROLL 10' TRANSITION IDLERS			#152.4 ERW 4.85THK MS PIPE, (Ø30), AS MARKED			9 Nos.			
		3 ROLL 20' TRANSITION IDLERS			#152.4 ERW 4.85THK MS PIPE, (Ø30), AS MARKED			6 Nos.			
		3 ROLL 30' TRANSITION IDLERS			#152.4 ERW 4.85THK MS PIPE, (Ø30), AS MARKED			6 Nos.			
		3 ROLL 35' CARRYING IDLERS			#152.4 ERW 4.85THK MS PIPE, (Ø30), AT 1000 SPACING			203 Nos.			
		3 ROLL 35' IMPACT IDLERS			#139.7 ERW 4.85THK MS PIPE, OD Ø 190, (Ø35), AT 450 MM SPACING			20 Nos.			
		3 ROLL 35' SELF ALIGNING CARRYING IDLERS			#152.4 ERW 4.85THK MS PIPE, (Ø30), 5000MM FROM HEAD & TAIL THEREAFTER 10000 MM SPACING			25 Nos.			
		RETURN SINGLE ROLL RETURN IDLER			#152.4 ERW 4.85THK MS PIPE, (Ø30), AT 3000MM SPACING			65 Nos.			
		SINGLE ROLL SELF ALIGNING RETURN IDLER			#152.4 ERW 4.85THK MS PIPE, (Ø30), 10000MM FROM HEAD & TAIL THEREAFTER 20000 MM SPACING			12 Nos.			
		3 ROLL 35' MACHINED IDLERS			ROLLERS SHALL BE MACHINED TO PROVIDE A ROUNDOFF OF LESS THAN 0.25 mm & THEIR TROUGHING PROFILE MUST MATCH ACCURATELY WITHIN 0.5 mm MAX. AND ALIGNED IN ACCORDANCE WITH INSTRUCTION IN THE MANUAL.			4 Nos.			
		DEFLECTOR ROLLER			#219 ERW 6 THK MS PIPE			6 Nos.			
DRIVE DETAILS	REDUCER MOTOR	TYPE			TEFC SQUIRREL CAGE , S1 DUTY, IP55			1 No.			
		MAKE			SIEMENS/CGI/ABB/BREI/ APPROVED VENDOR			--			
		POWER RATING(KW)/RPM/FRAME SIZE			260/1500/H			--			
		SUPPLY VOLTAGE / DUTY			3.3 KV, 3PHASE, 3 WIRE AC SUPPLY			--			
		TYPE			BEVEL HELICAL			1 No.			
		MODEL NO./MAKE			B3-355/PM/PROVED VENDOR			--			
		HOLD BACK			YES, INTEGRAL			--			
		RATIO			18:9			--			
		MECHANICAL RATING KW			437			--			
		BRAKE TYPE			NOT APPLICABLE			--			
COUPLING AND SPEEDS	HIGH SPEED	TYPE/SIZE/MAKE			SCODP TYPE/PST-570/PETL/ APPROVED VENDOR			1 No.			
		RATING KW			500			--			
		TYPE/SIZE/MAKE			GEARED TYPE/RC-11/GBM/ APPROVED VENDOR			1 No.			
		RATING HP/100 rpm			1540			--			
		TYPE			VGTU			--			
		TRAVEL (MM)			6000			--			
		RCC COUNTER WEIGHT (N KG)			8500			--			
		INTERNAL SCRAPPER TYPE/MAKE			V-PLUGH TYPE (1 NO. NEAR TAIL PULLEY & 1 NO. NEAR BEND PULLEY)			2 No.			
		EXTERNAL SCRAPPER TYPE/MAKE		PRIMARY		PRIMARY WITH SPRUNG BLADE MAKE: APPROVED VENDOR			3 No.		
				SECONDARY		SECONDARY WITH TORSION ARM MAKE: APPROVED VENDOR			1 No.		
MISCELLANEOUS INFORMATION		SKIRT BOARD			SHALL BE MIN. 3M AHEAD OF FRONT EDGE OF CHUTE AND MIN. 500MM BEYOND REAR EDGE OF CHUTE WITH 10THK THK PLATE WITH 6 THK SS408 LINING FOR SIDE PLATE, BACK PLATE 10THK MS PLATE WITH 6 THK SS408 LINING AND TOP PLATE COVER WITH 4MM THK MS PLATE			1 LOT.			
		DECK PLATE			10MM THK MS CONTINUOUS PLATE			1 EACH			
		BEND FRAME, TAIL FRAME & DRIVE BASE FRAME			MB 350 FOR HEAD, MB 300 FOR TAIL & MC250 FOR DRIVE			1 EACH			
		SEAL PLATE			12 G STEEL			1 No.			
		STRINGER			MC 125			LOT			
		SHORT SUPPORT			MC 100			LOT			
		DISCHARGE & FEED CHUTE			MOTHER PLATE – 1/8 TONN THICK LINER – 6MM THICK SS-409M ON SLIDING SURFACE & ADJACENT SURFACE			1 No.			
		DISCHARGE HOOD			4MM THK MS PLATE WITH RUBBER CURTAIN			1 No.			
		BELT WEIGHER						1 No.			
		PULL CORD SWITCH /LOCATION/MAKE			15M FROM HEAD & TAIL END THEREAFTER 30 M SPACING			8 PAIR			
BELT SWAY SWITCH/LOCATION/MAKE			15M FROM HEAD & TAIL END THEREAFTER 30 M SPACING			8 PAIR					
ZERO SPEED SWITCH/LOCATION/MAKE			ONE FOR EACH CONVEYOR MOUNTED AT TAIL PULLEY JAYSREE,KANNA			1 NO.					

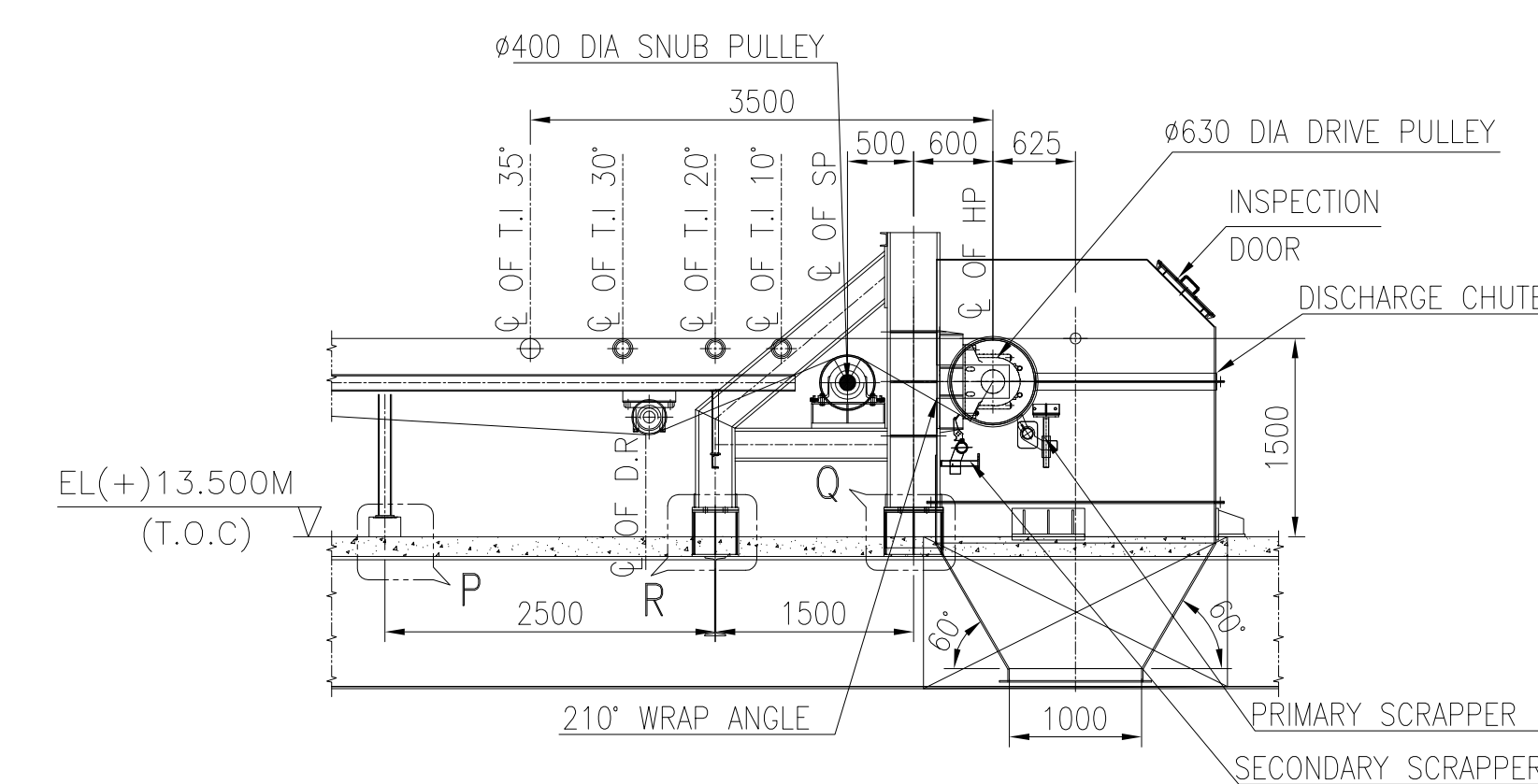
OWNER:		TELANGANA STATE POWER GENERATION CORPORATION LTD. HYDERABAD — TELANGANA, INDIA							
CUSTOMER'S CONSULTANT		DEVELOPMENT CONSULTANTS PVT. LTD. CONSULTING ENGINEERS KOLKATA - MUMBAI - CHENNAI - NEW DELHI							
PROJECT :		KOTHAGUDEM THERMAL POWER STATION STAGE-VII, UNIT # 12 (1x800 MW), KOTHAGUDEM, TELANGANA, INDIA COAL HANDLING SYSTEM PACKAGE							
EPC CONTRACTOR		BHARAT HEAVY ELECTRICALS LIMITED INDUSTRIAL SYSTEMS GROUP ISG-BANGALORE							
BHEL CONTRACTOR					NAME PVN SDD RSP		SIGN 	DATE 11.09.15 11.09.15 11.09.15	RE 00 NO OF VA
TITLE :		GA OF BC#5A/5B			NO. OF SHEETS SHEET NO.			05 03	
PD									
SCALE	BHEL JOB NO.	IS-1-14-2006		BHEL-888 ORG. NO.:	IS-1-GA-690-101-M011			RE	

IDLER'S & SWITCHES PROFILE FOR CONVEYOR NO. BC#5A

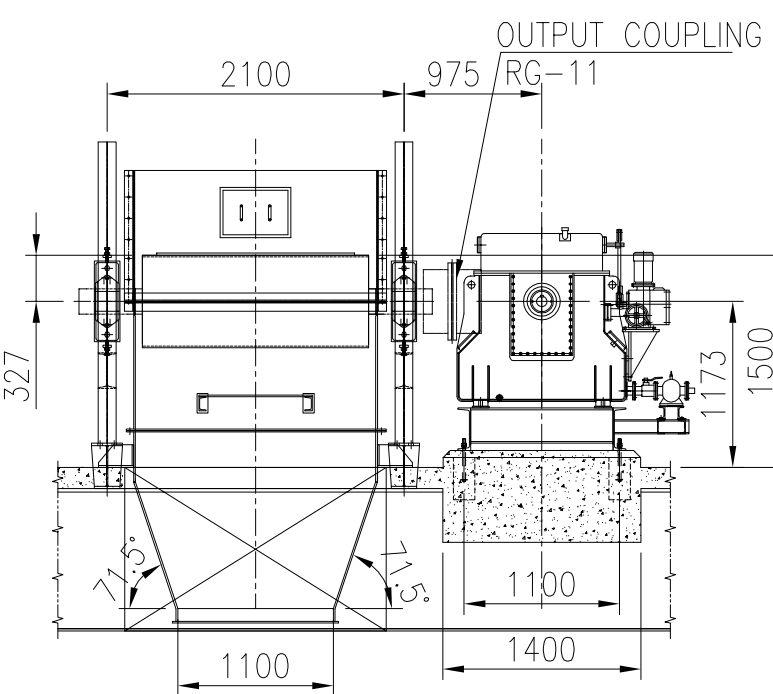
R.No:	DATE	BRIEF RECORD	BY	AF
REVISIONS				
		9		



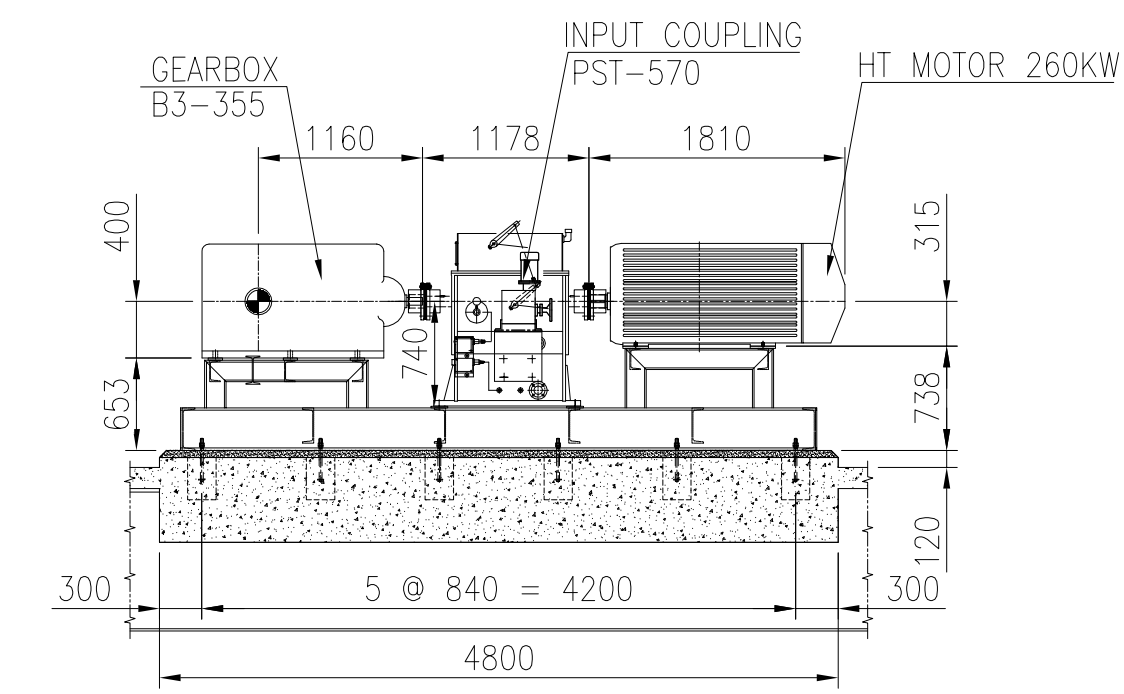
PLAN VIEW AT TAIL END



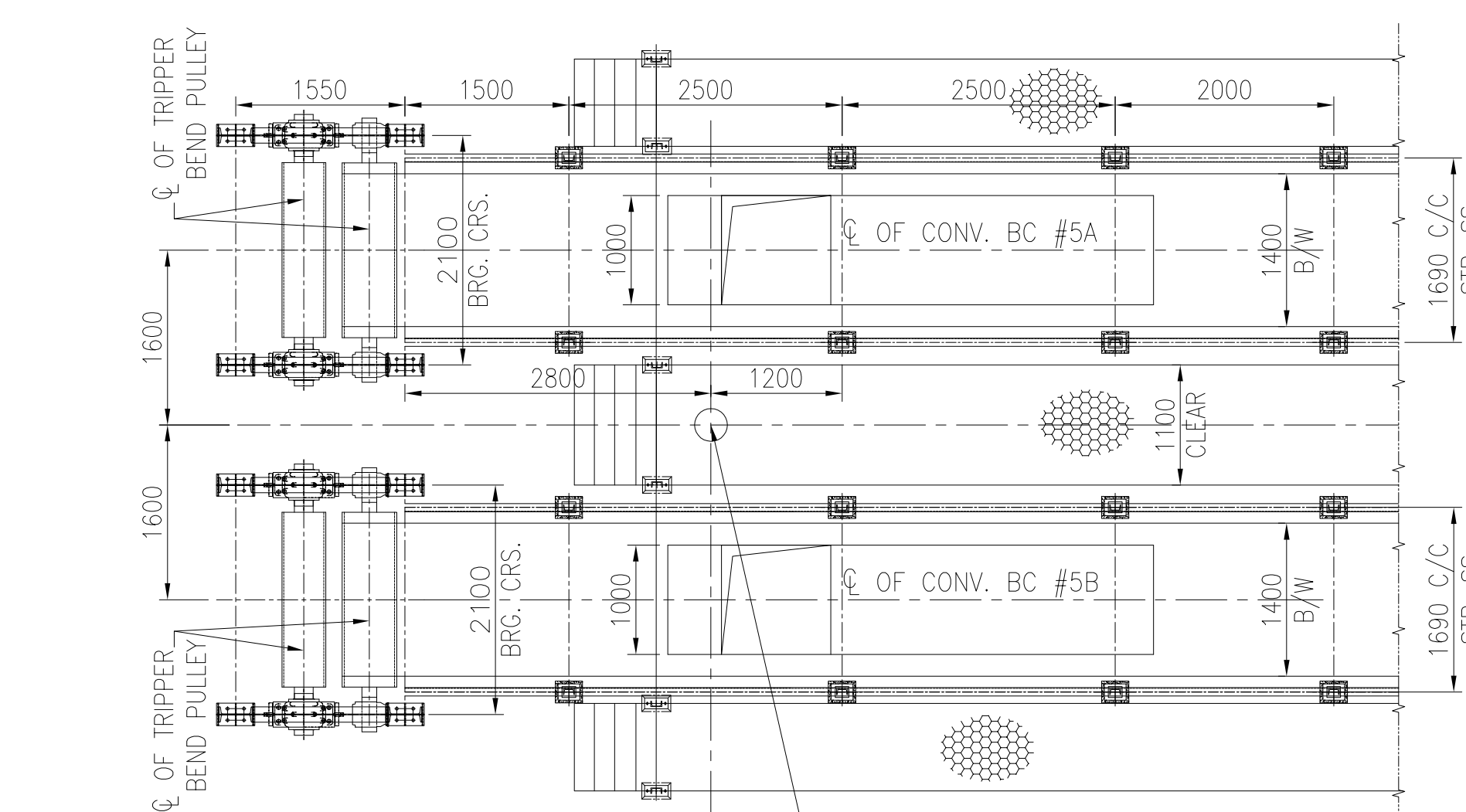
ENLARGED VIEW OF HEAD FRAME &DRIVE UNIT



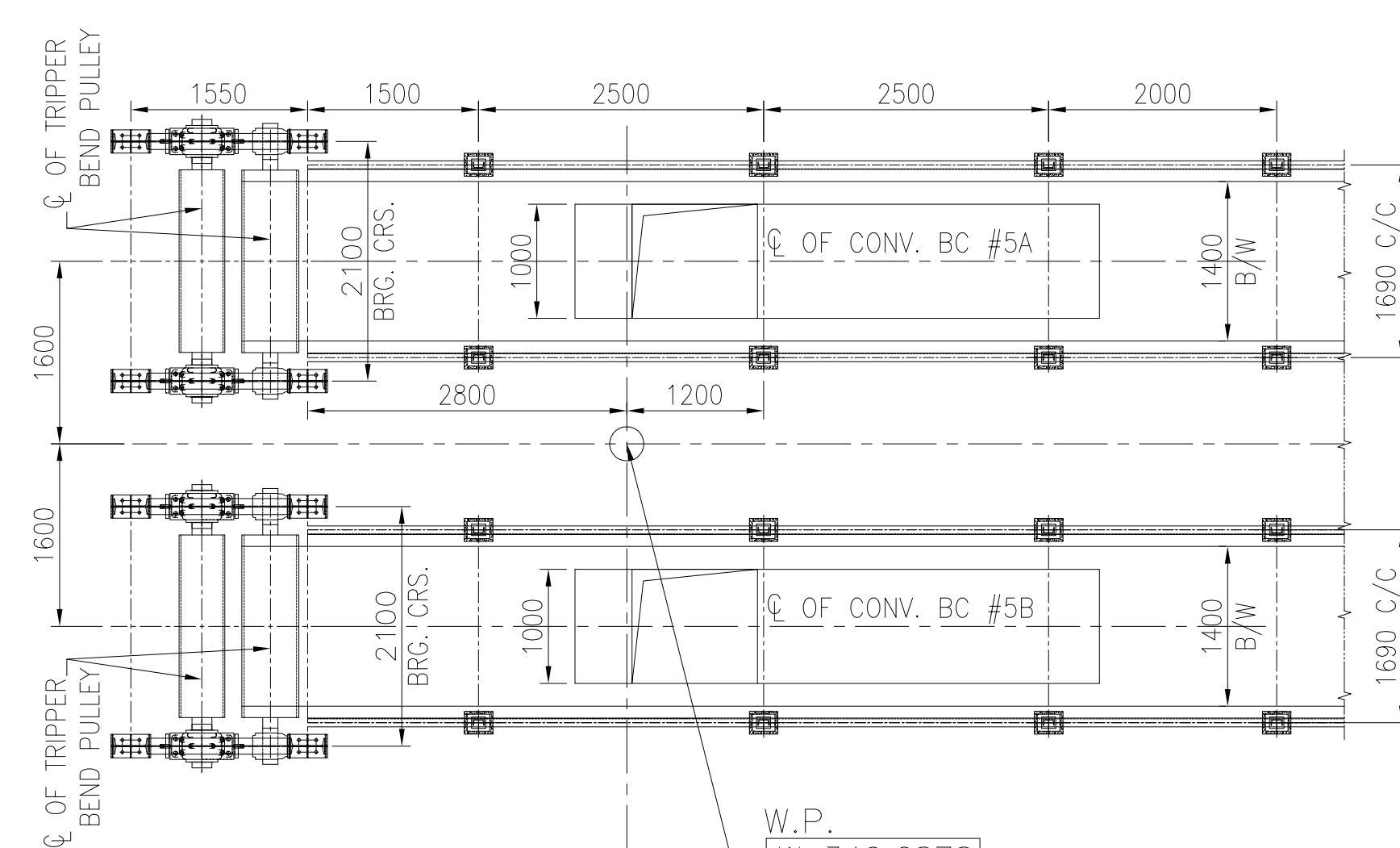
VIEW 'J-J'



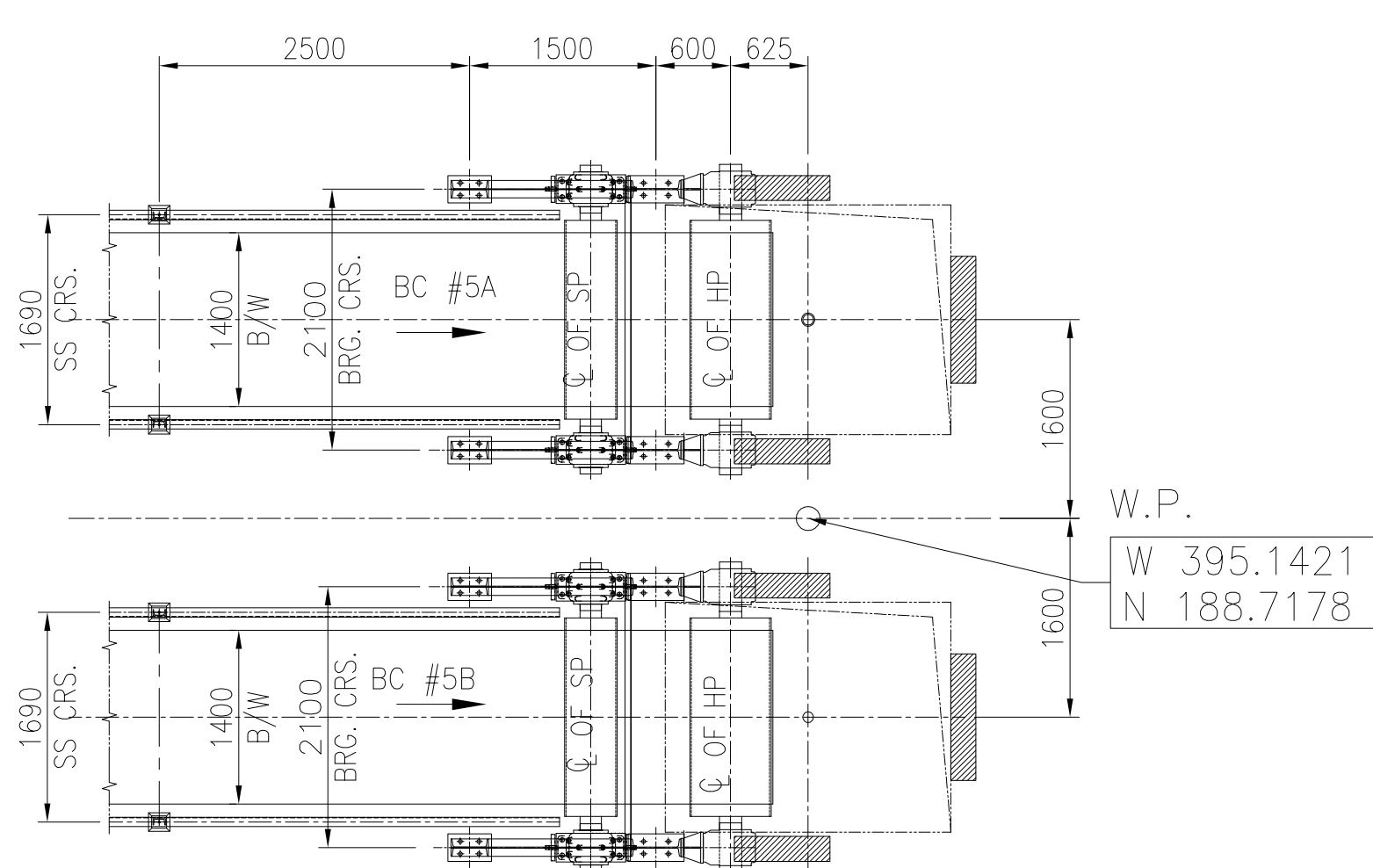
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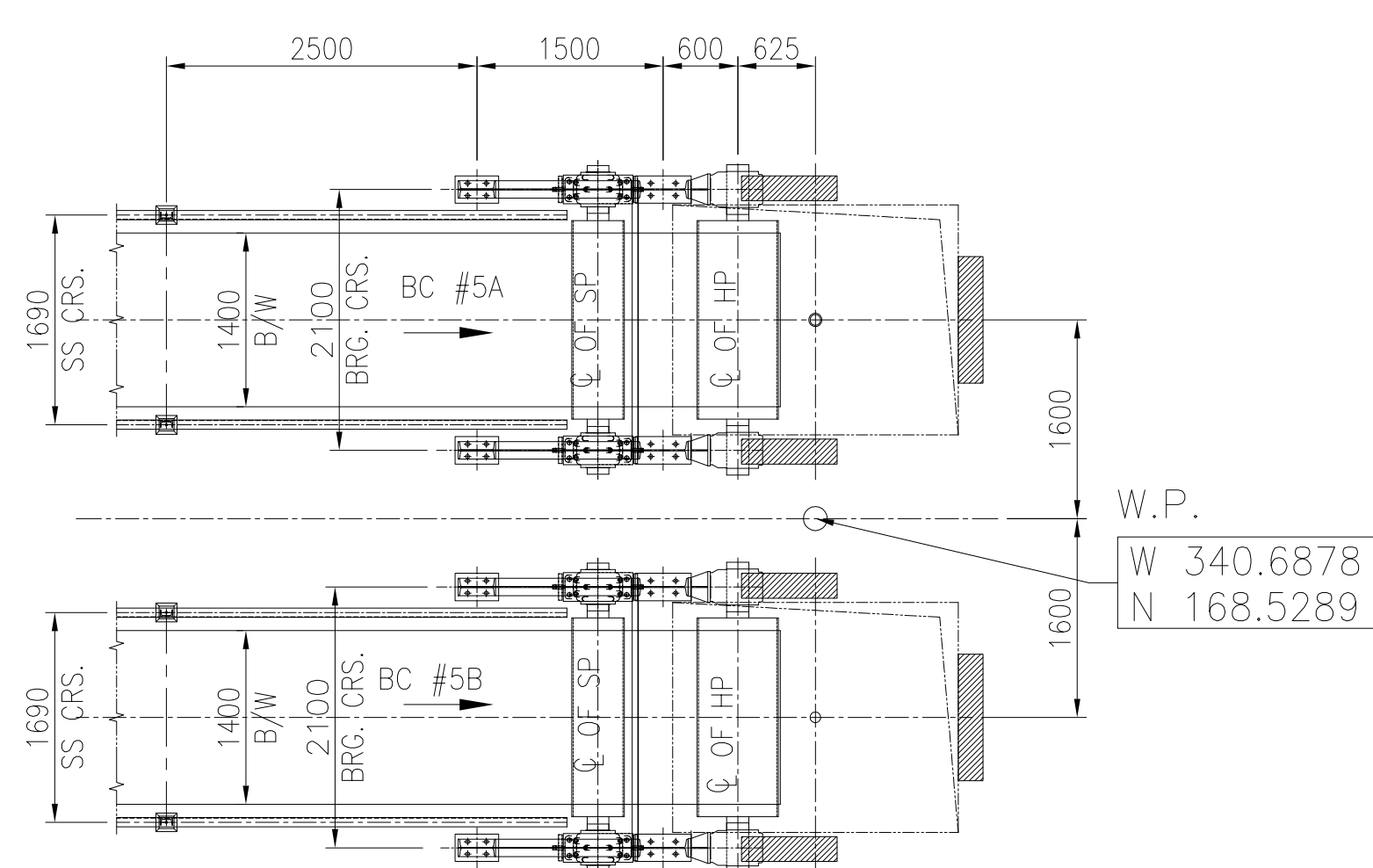
VIEW 'E-E'



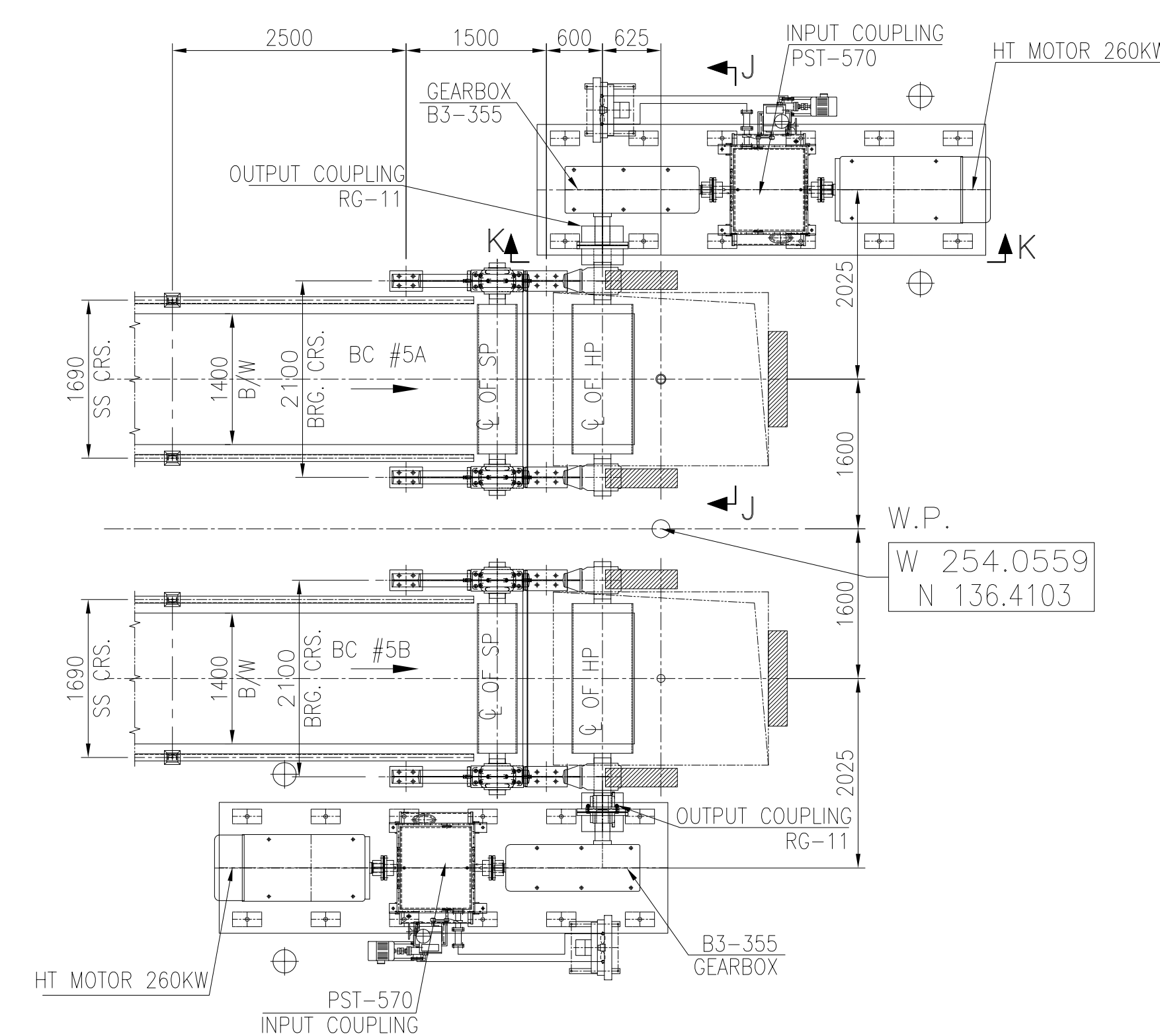
VIEW 'G-G'



VIEW 'F-F'



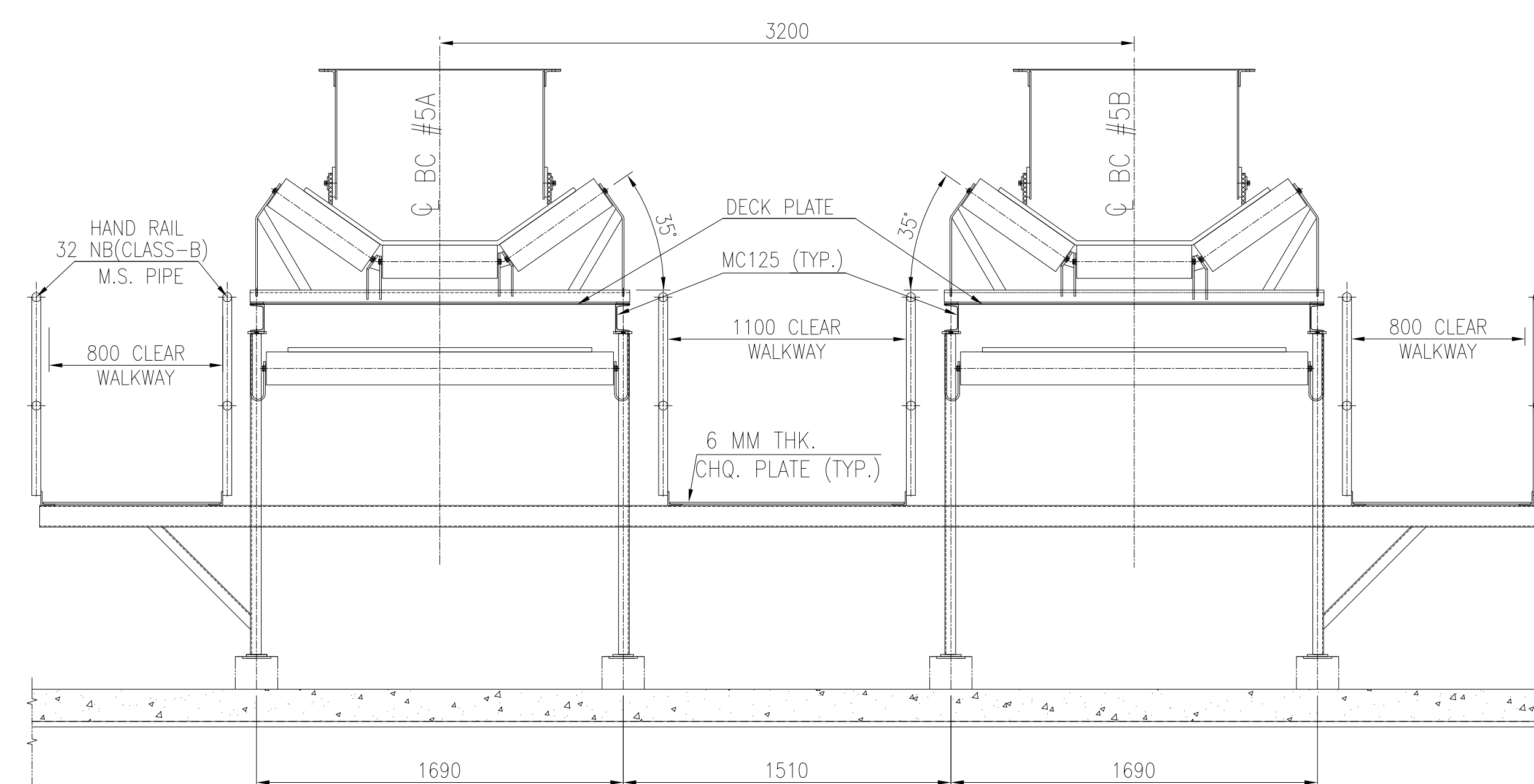
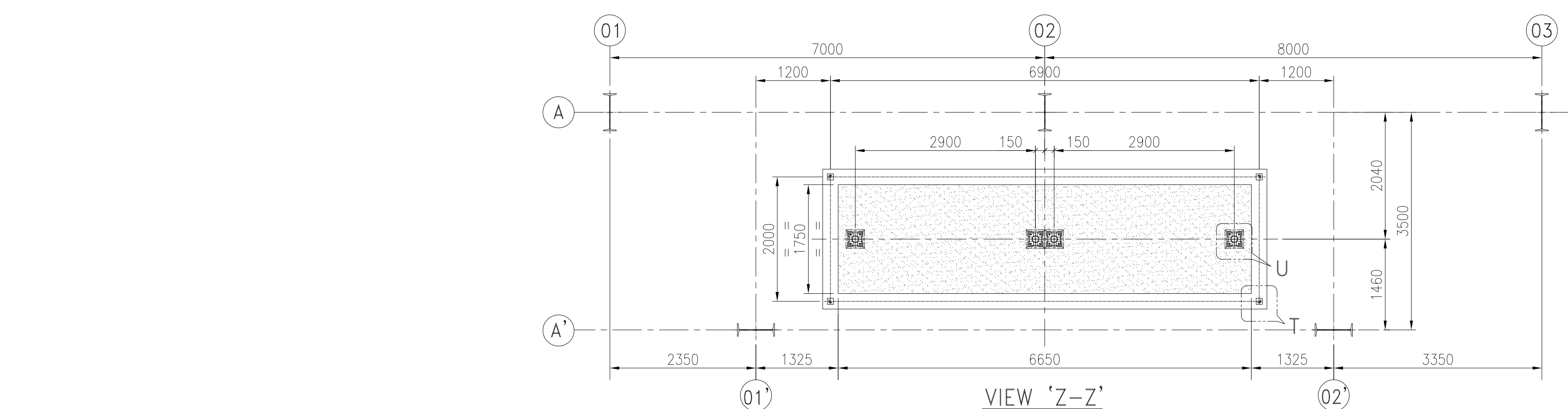
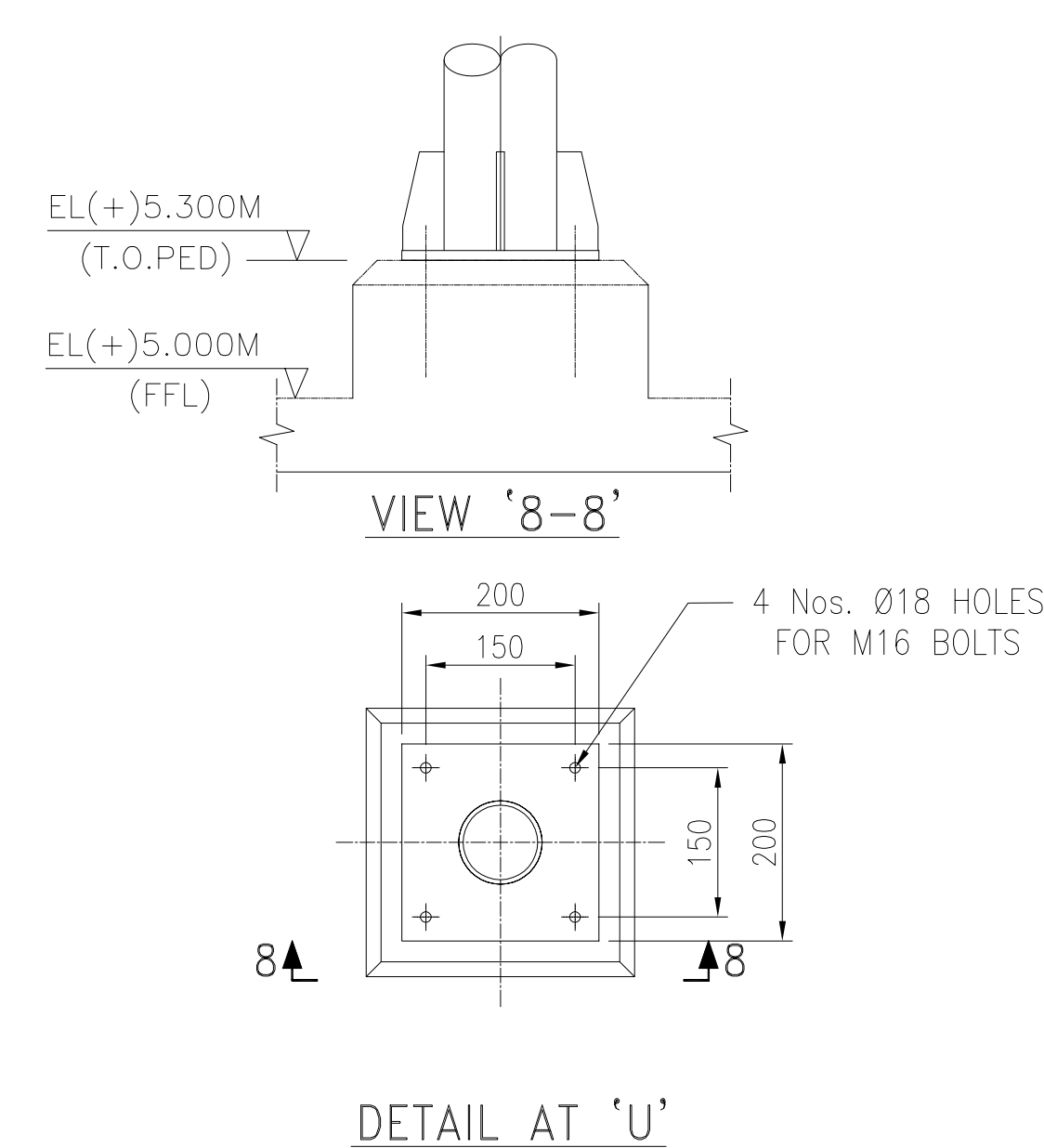
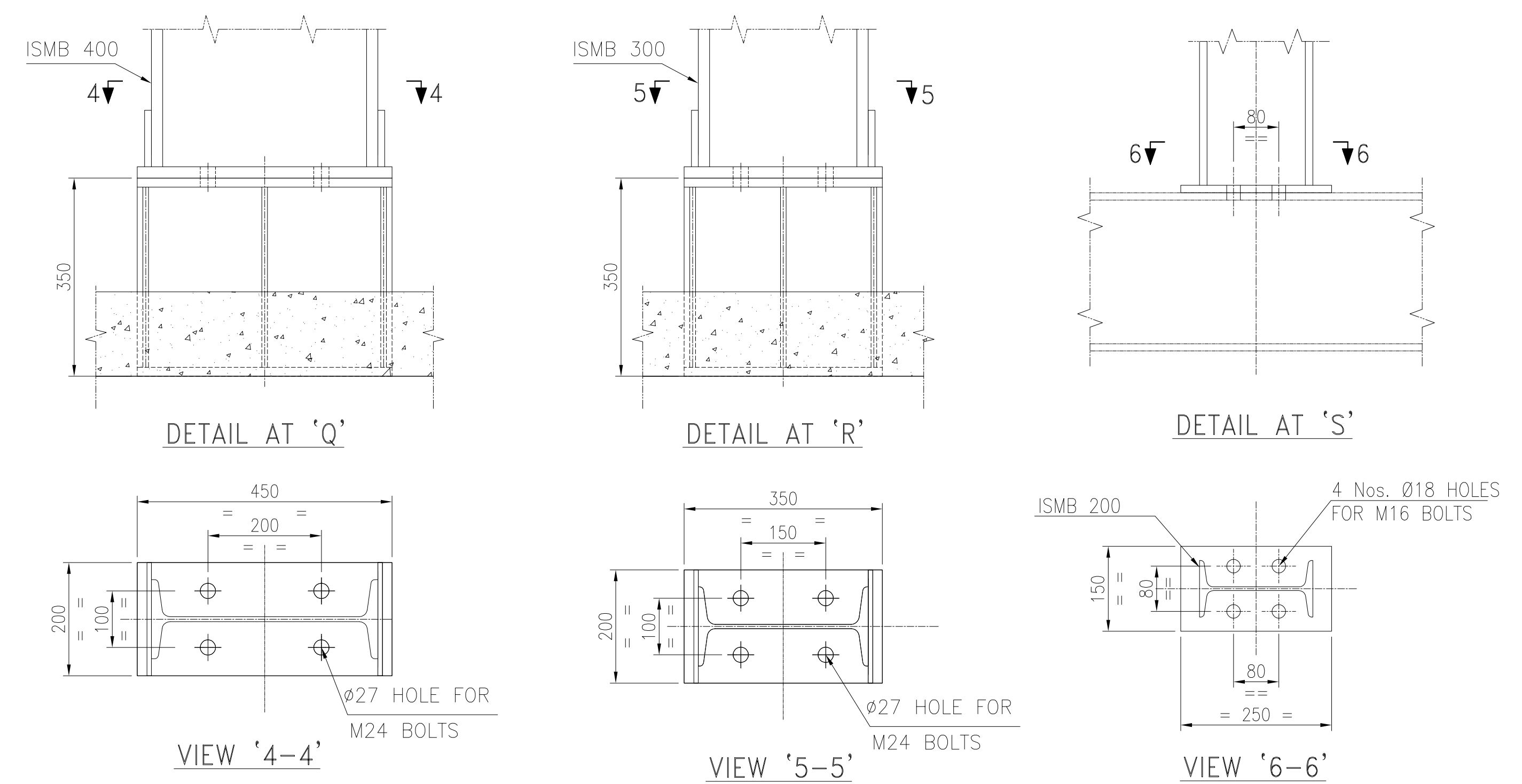
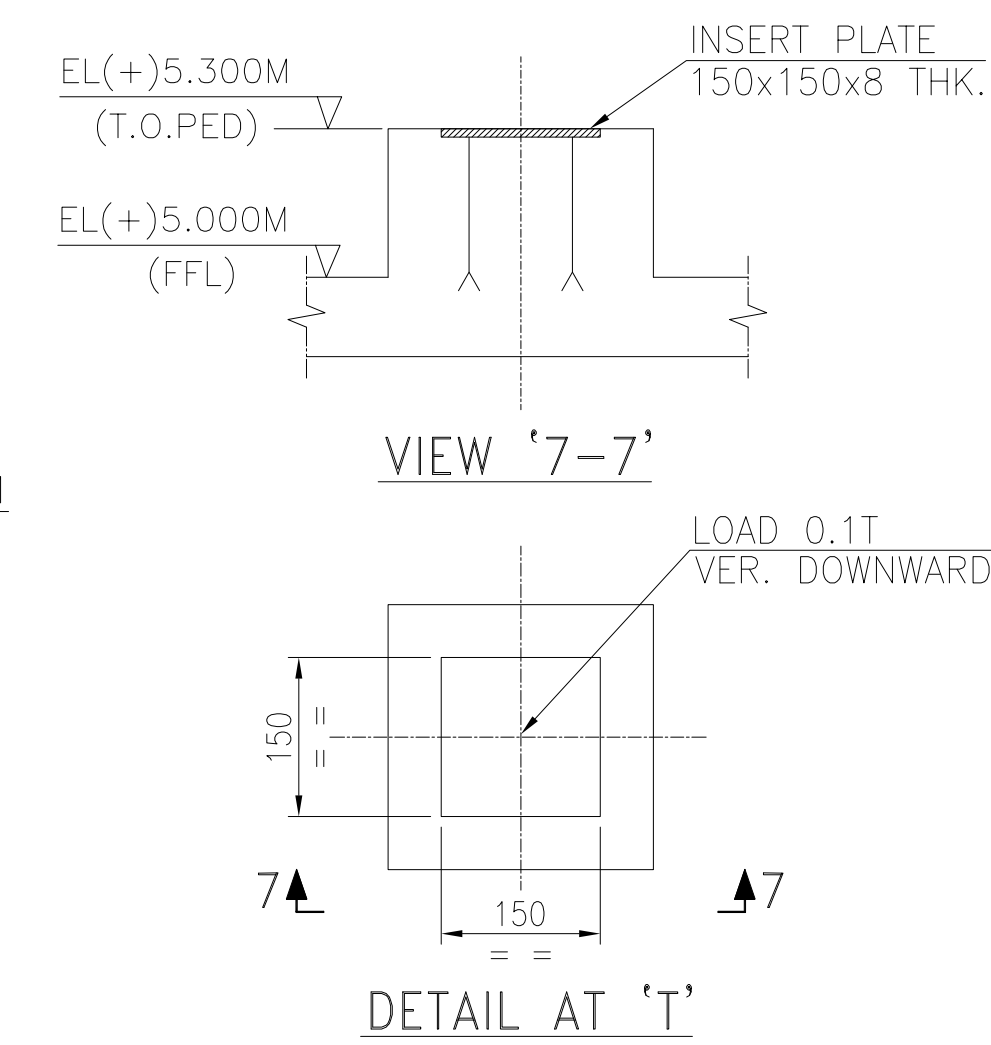
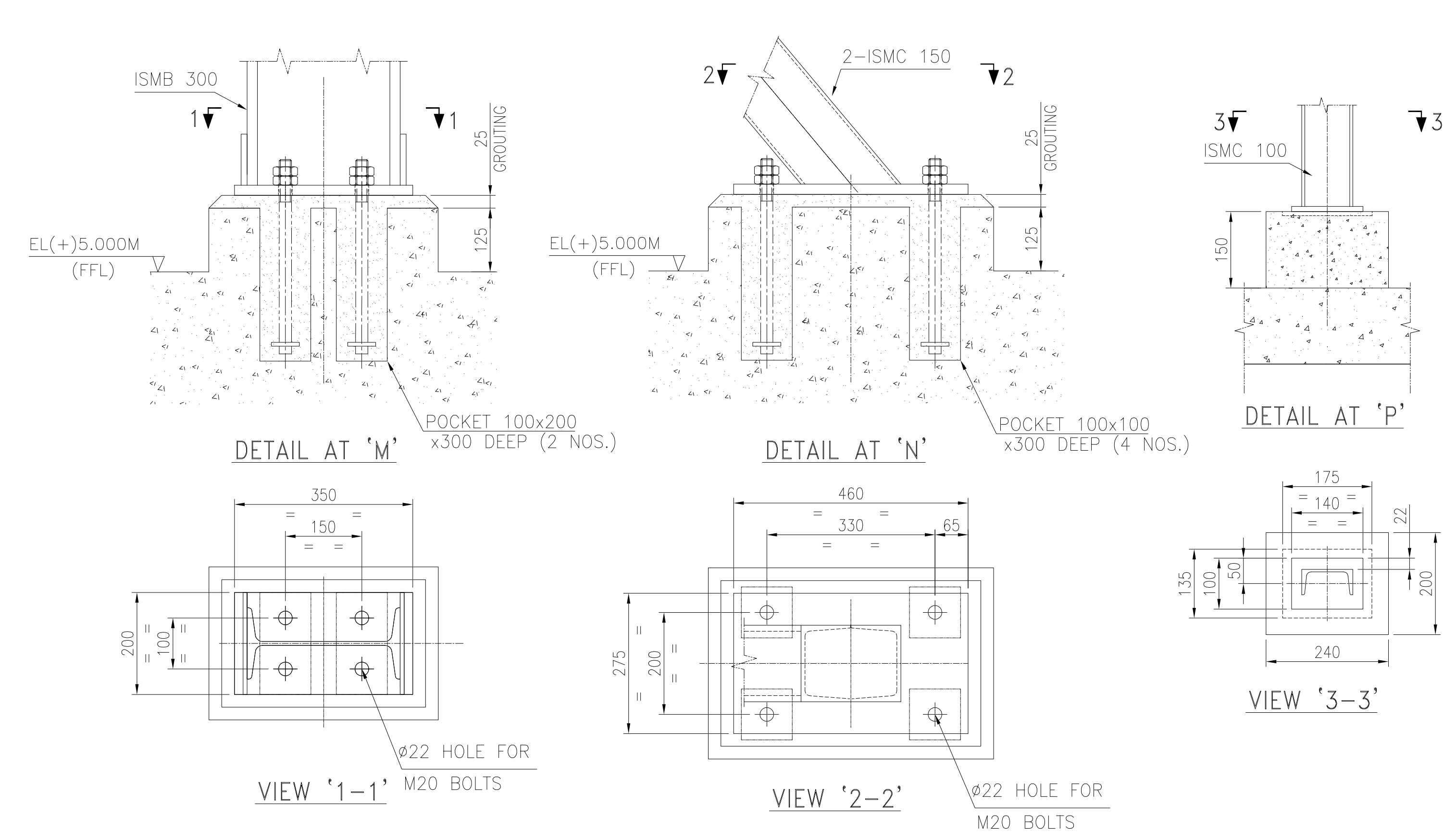
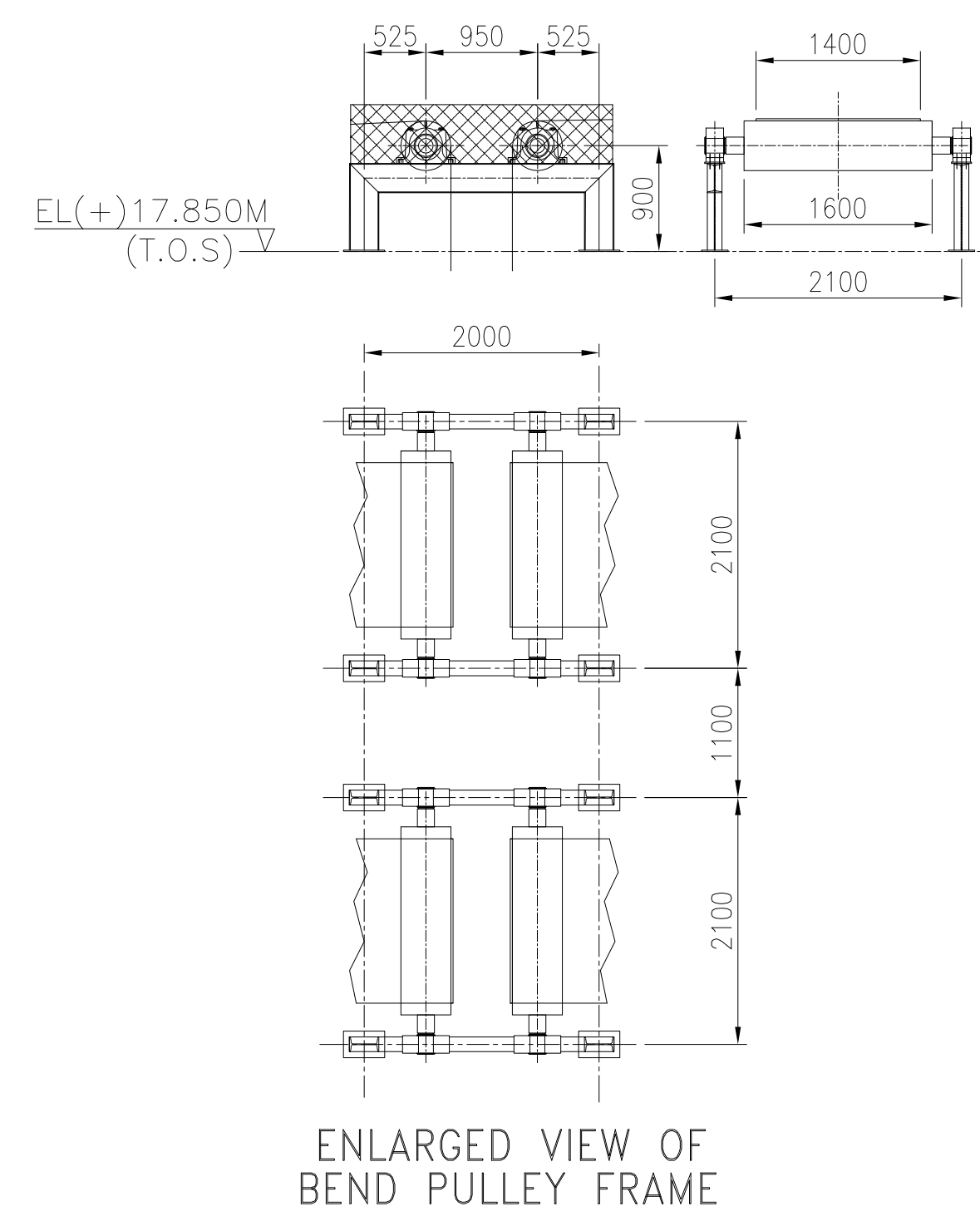
VIEW 'H-H'



PLAN VIEW OF HEAD FRAME &DRIVE UNIT

R.No:	DATE	BRIEF RECORD	BY	APPROVED
REVISIONS				
		9		

OWNER:		TELANGANA STATE POWER GENERATION CORPORATION LTD. HYDERABAD – TELANGANA, INDIA					
CUSTOMER'S CONSULTANT: 		DEVELOPMENT CONSULTANTS PVT. LTD. CONSULTING ENGINEERS KOLKATA . MUMBAI . CHENNAI . NEW DELHI					
PROJECT :		KOTHAGUDEM THERMAL POWER STATION STAGE-VII, UNIT # 12 (1X800 MW), KOTHAGUDEM, TELANGANA, INDIA COAL HANDLING SYSTEM PACKAGE					
EPC CONTRACTOR: 		BHARAT HEAVY ELECTRICALS LIMITED INDUSTRIAL SYSTEMS GROUP ISG-BANGALORE					
BHEL'S CONTRACTOR:			NAME	SIGN.	DATE	REV.	
		DIN.	PVN		11.09.15	00	
		CND.	SSD		11.09.15	No. OF VAR	
		APP.	RSP.		11.09.15	01	
		TITLE :				No. OF SHEETS	
		GA OF BC#5A/5B				05	
PD						SHEET. NO.	
						04	
SCALE		BHEL JOB NO. IS-1-14-2006	BHEL-ISO DRG. NO.		IS-1-GA-690-101-M011		
						REV. 0	



ENLARGED VIEW 'L-L'
(TYP.)

R.No:	DATE	BRIEF RECORD	BY	APPROVED
REVISIONS				

OWNER:	TELANGANA STATE POWER GENERATION CORPORATION LTD. HYDERABAD - TELANGANA, INDIA					
CUSTOMER'S CONSULTANT	DEVELOPMENT CONSULTANTS PVT. LTD. CONSULTING ENGINEERS KOLKATA . MUMBAI . CHENNAI . NEW DELHI					
PROJECT :	KOTHAGUDEM THERMAL POWER STATION STAGE-VII, UNIT # 12 (1X800 MW), KOTHAGUDEM, TELANGANA, INDIA COAL HANDLING SYSTEM PACKAGE					
EPC CONTRACTOR	BHARAT HEAVY ELECTRICALS LIMITED INDUSTRIAL SYSTEMS GROUP ISG-BANGALORE					
BHEL'S CONTRACTOR		NAME	SIGN	DATE	REV.	
	DRN	PVN		11.09.15	00	
	CHD	SSD		11.09.15	NO OF VAR	
	APP	RSP		11.09.15		
	TITLE :			NO. OF SHEETS	05	
	GA OF BC#5A/5B			SHEET. NO.	05	
SCALE	BHEL JOB NO. IS-14-2006	BHEL/ISG DRG. NO. IS-14-GA-690-101-M011			REV. 0	