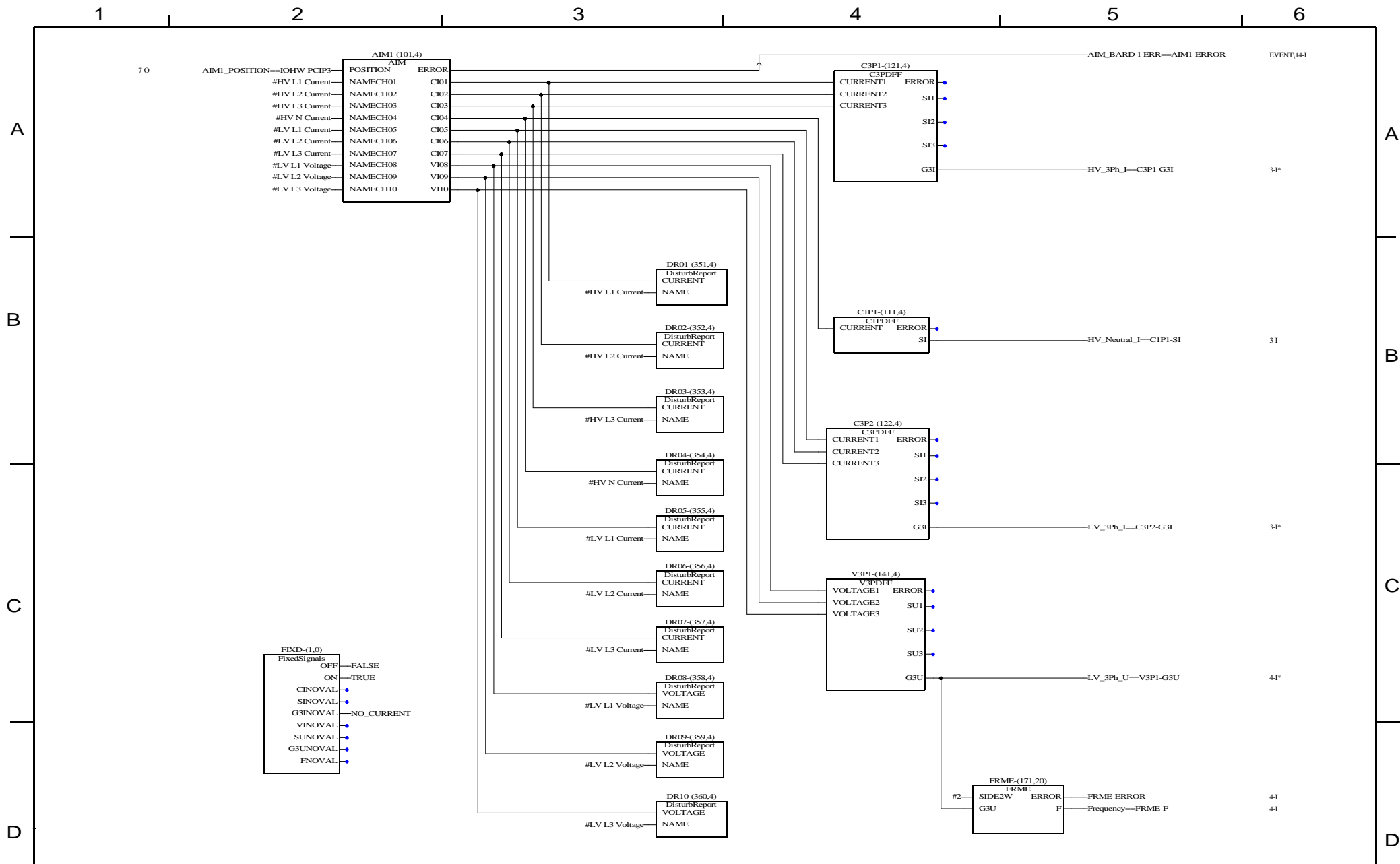


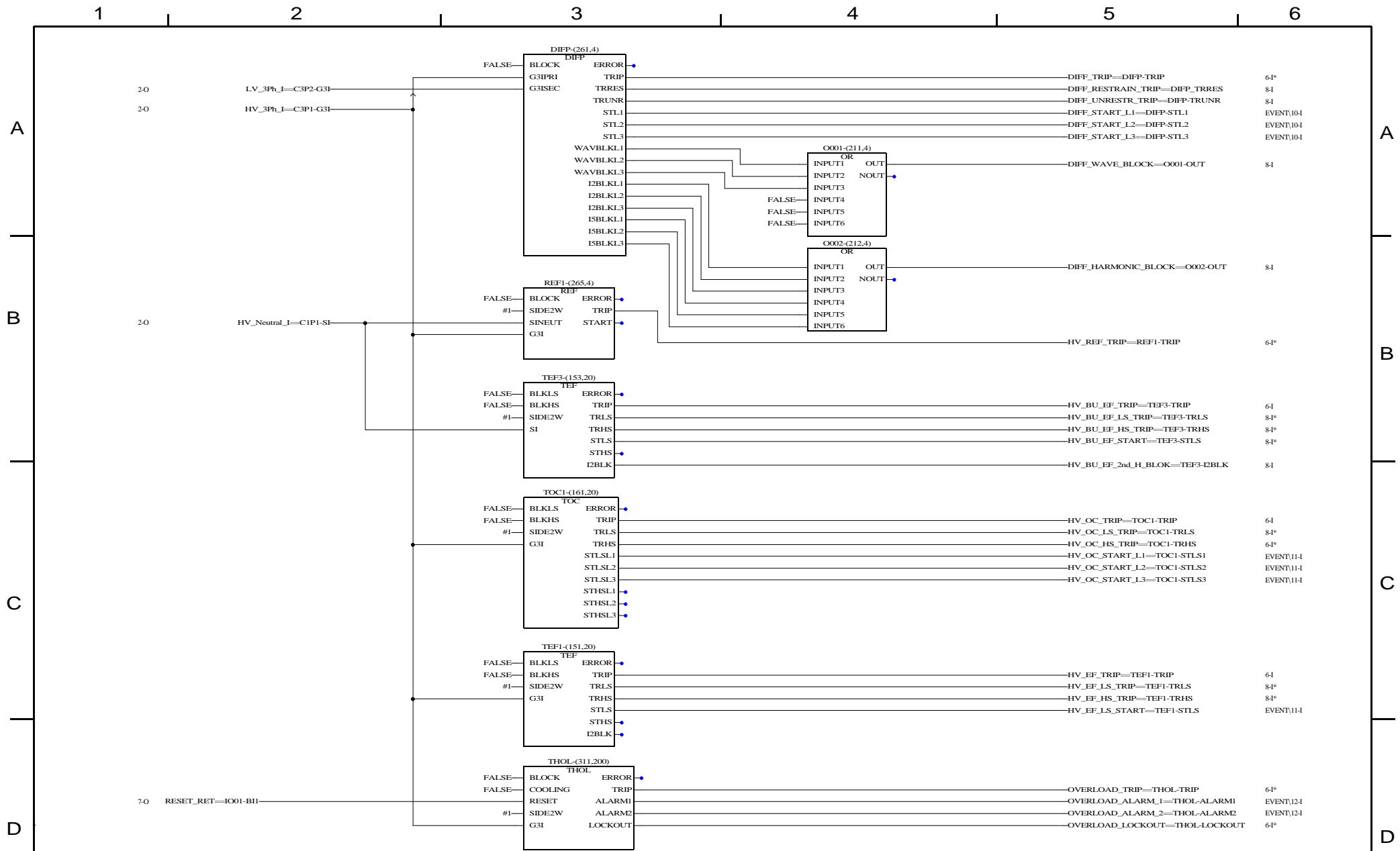
- List of Content
- Configuration of Analogue Quantities (AIM01) & Fixed Variables
- Differential & HV Protection Functions
- LV Protection Functions
- Voltage Control Function & Tap Position Reading
- Tripping Logic
- Configuration of Binary Inputs & Outputs (BIOM01)
- Configuration of Disturbance Report
- Configuration of Event Recording


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Sheet No 02
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Sheet No 08
Sheet No 10-15

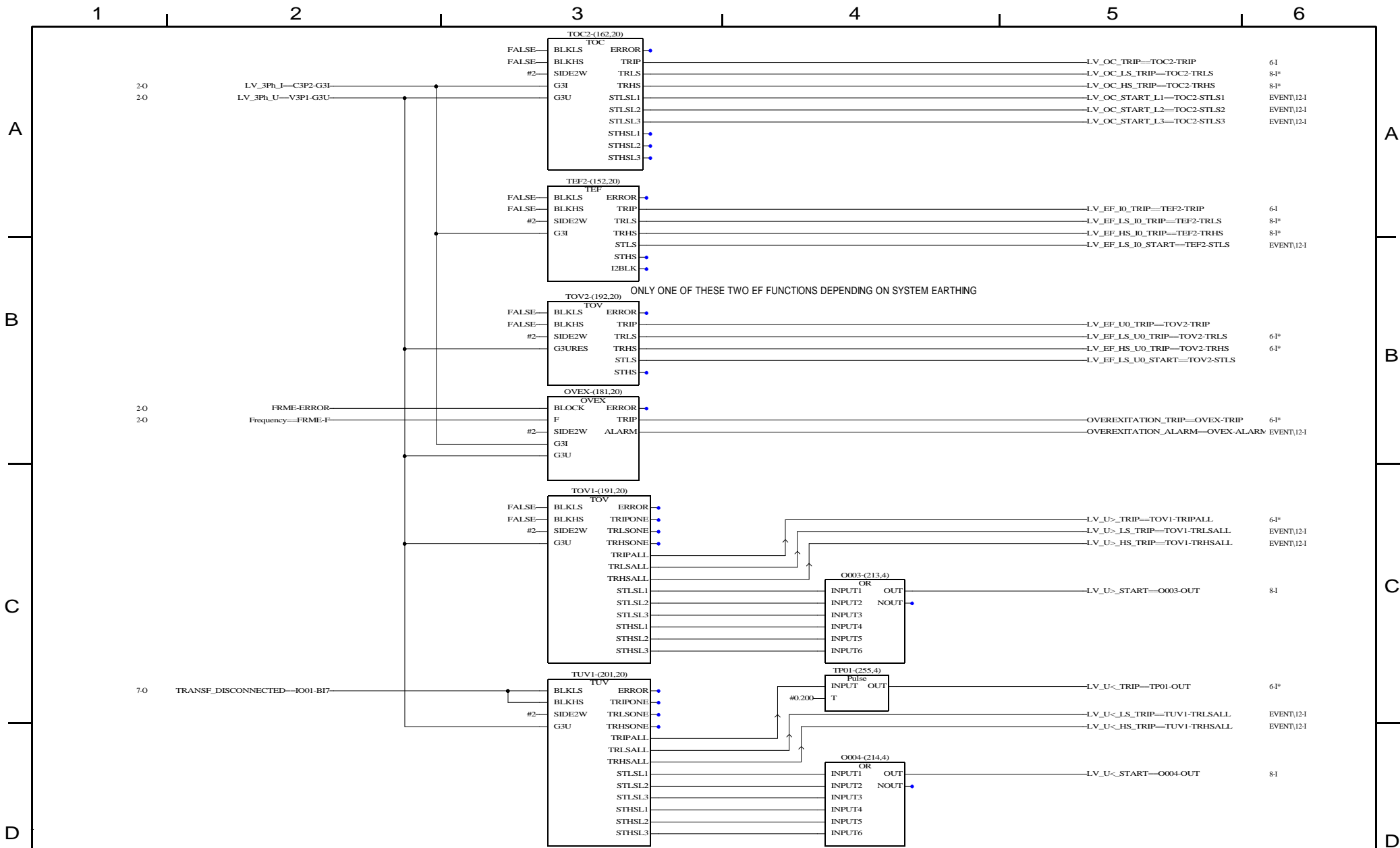
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Rev		Date/sign		Comment	
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Rev Ind		Reg nr		Resp dep PS	
Based on		Pcl		Rev Ind 01 9832	
				Config_1	
				Sheet 1/15	
				1MRK 001536-7	
				ABB ABB Network Partner AB	



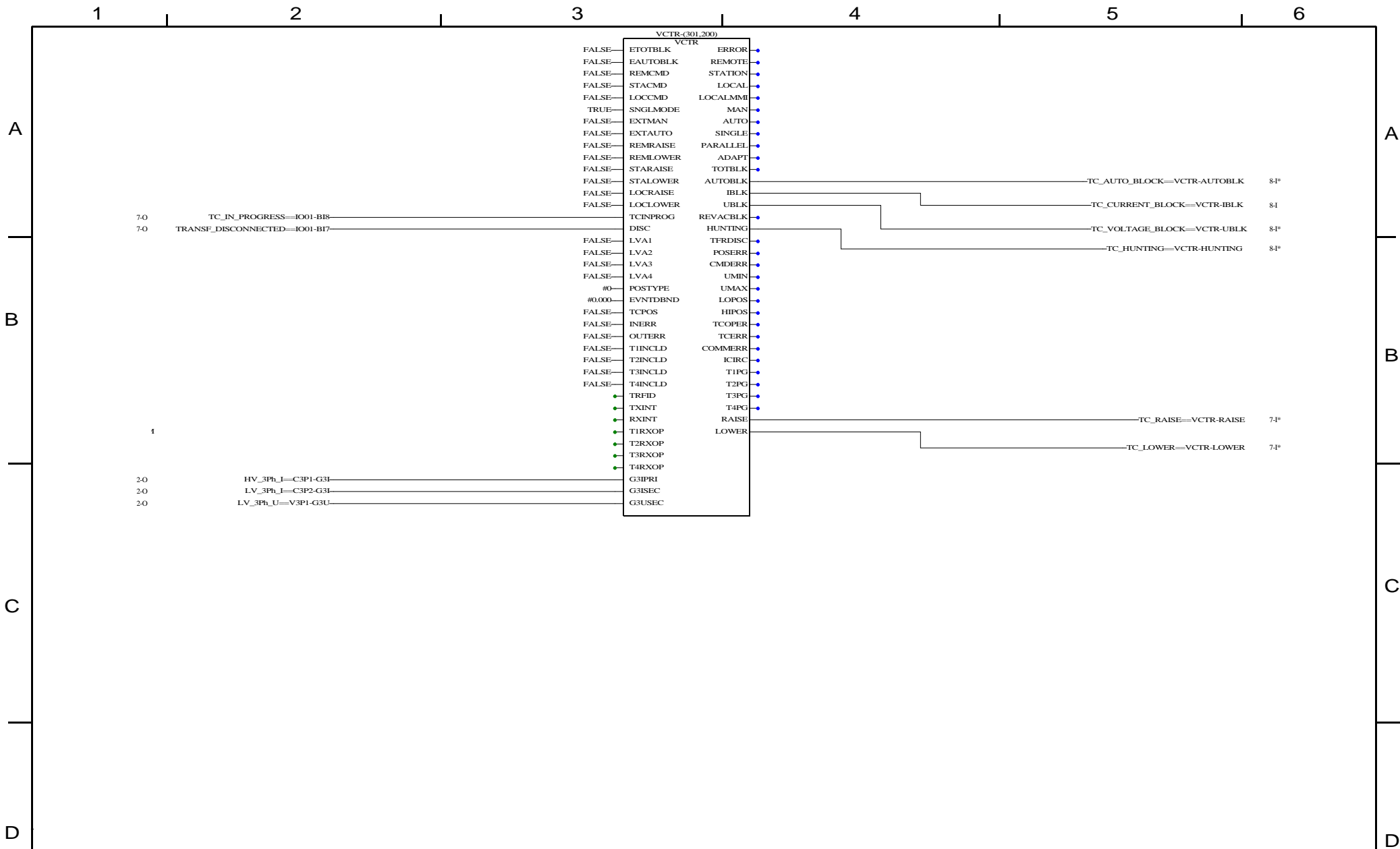
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Rev Ind	Reg nr		ABB Network Partner AB		1MRK 001536-7	
Based on	Pcl				Sheet 2/15	



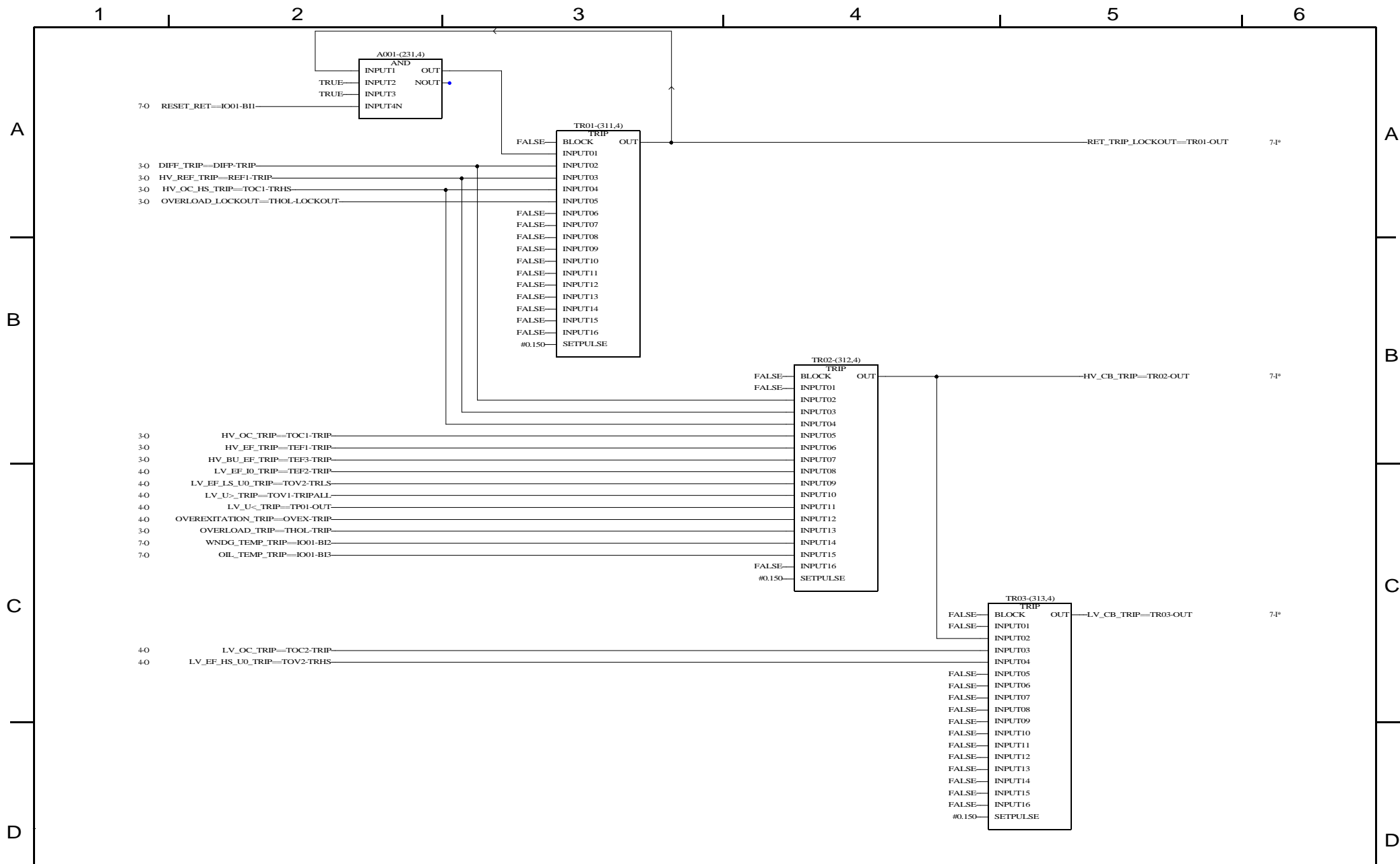
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Based on		Pcl				1MRK 001536-7	




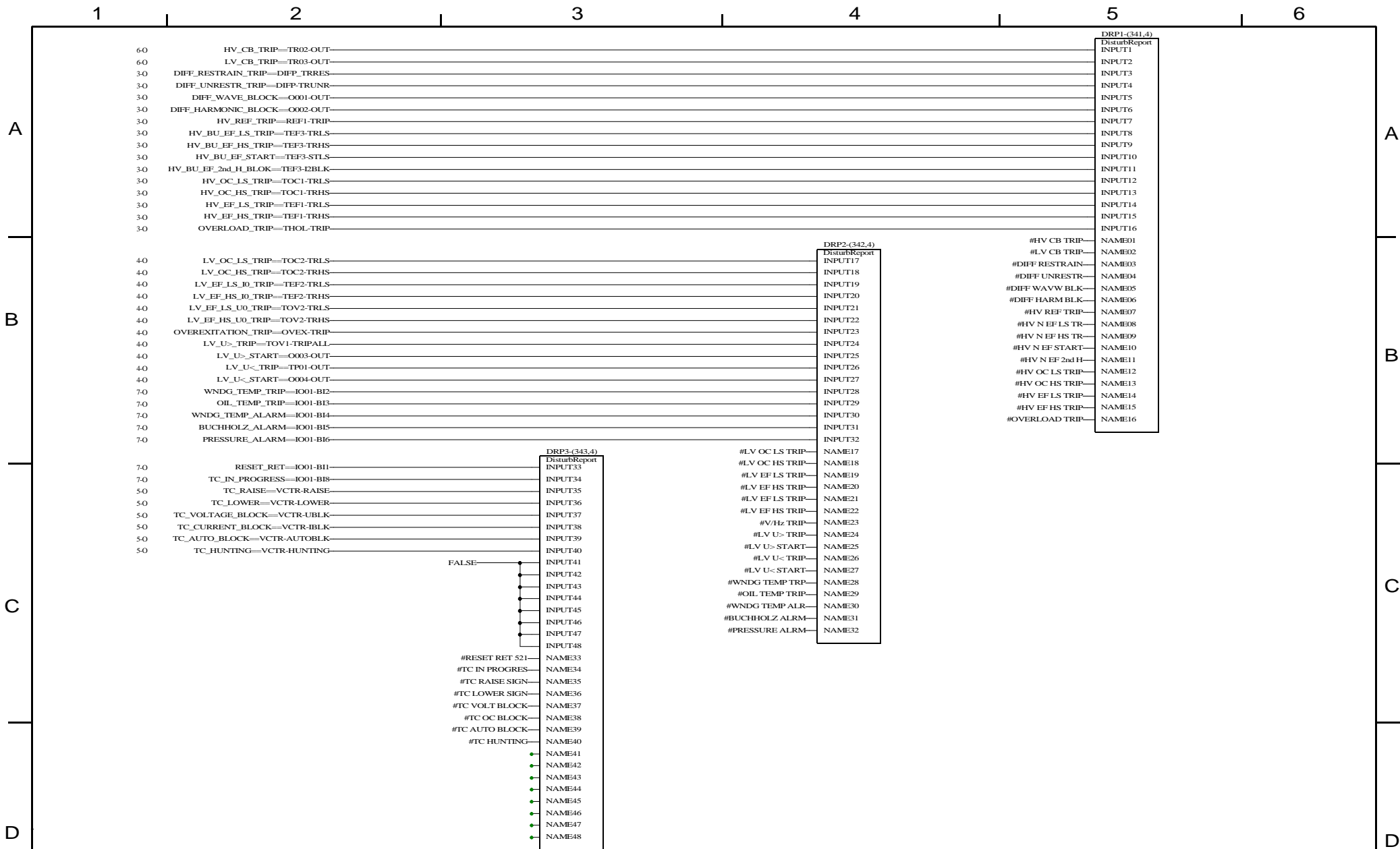
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Rev Ind	Reg nr	ABB ABB Network Partner AB		Sheet 4/15	
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Rev Ind		Reg nr		 ABB Network Partner AB		1MRK 001536-7		Sheet 5/15	
Based on		Pcl							

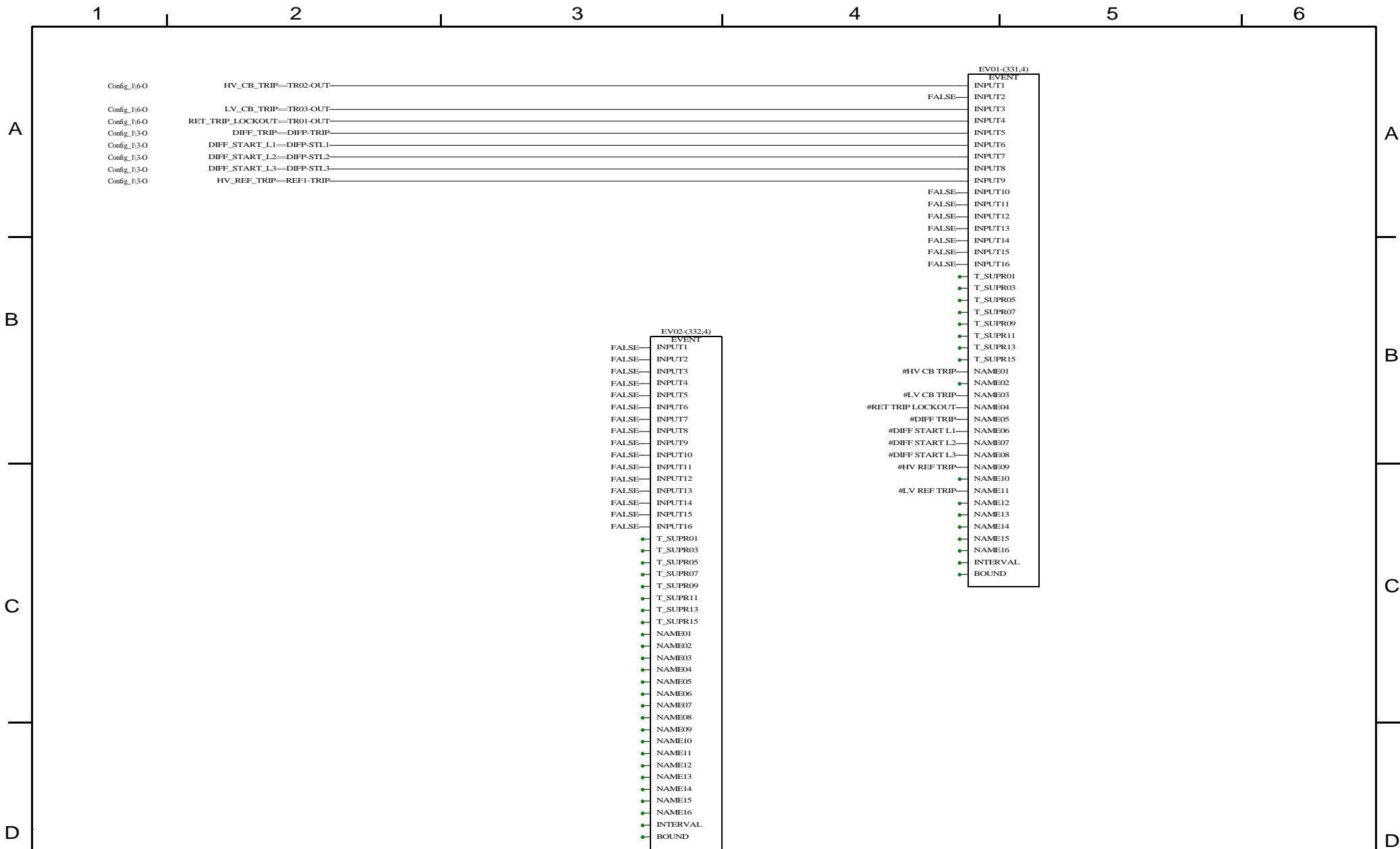


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Rev Ind	Reg nr	 ABB Network Partner AB		1MRK 001536-7	
Based on	Pcl			Sheet 6/15	

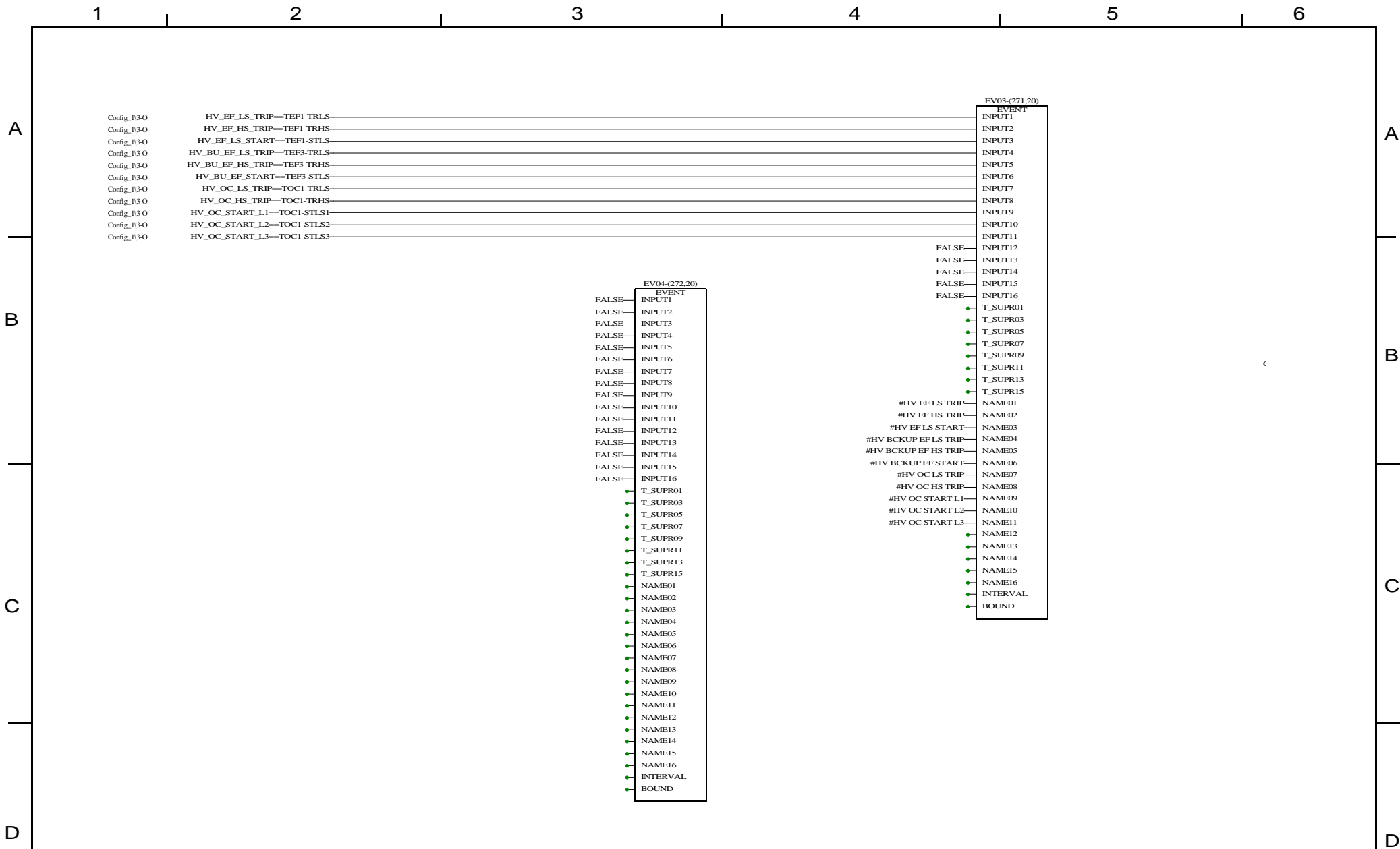


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Based on		Pcl				1MRK 001536-7	Sheet 8/15

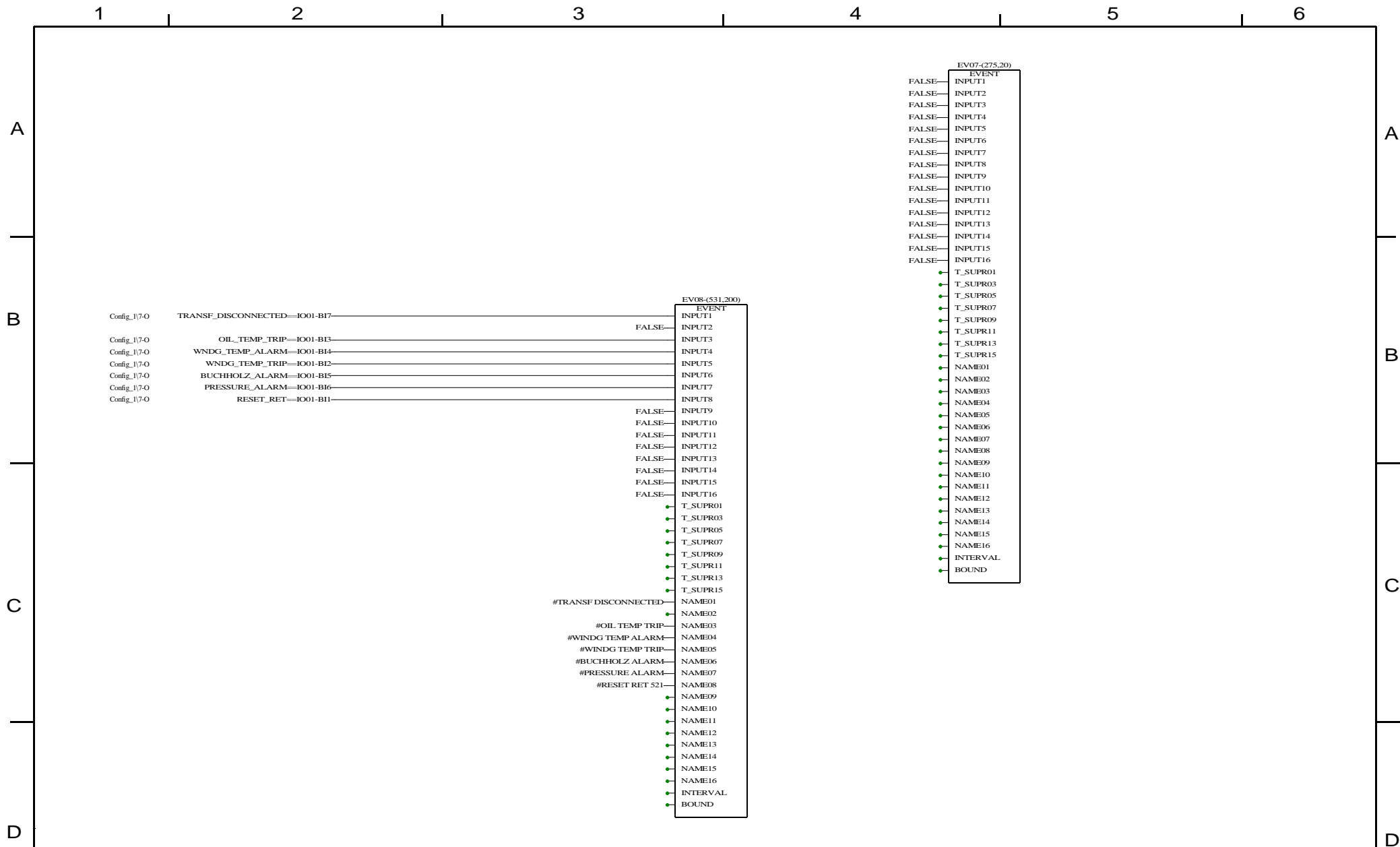
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Based on		Pcl			
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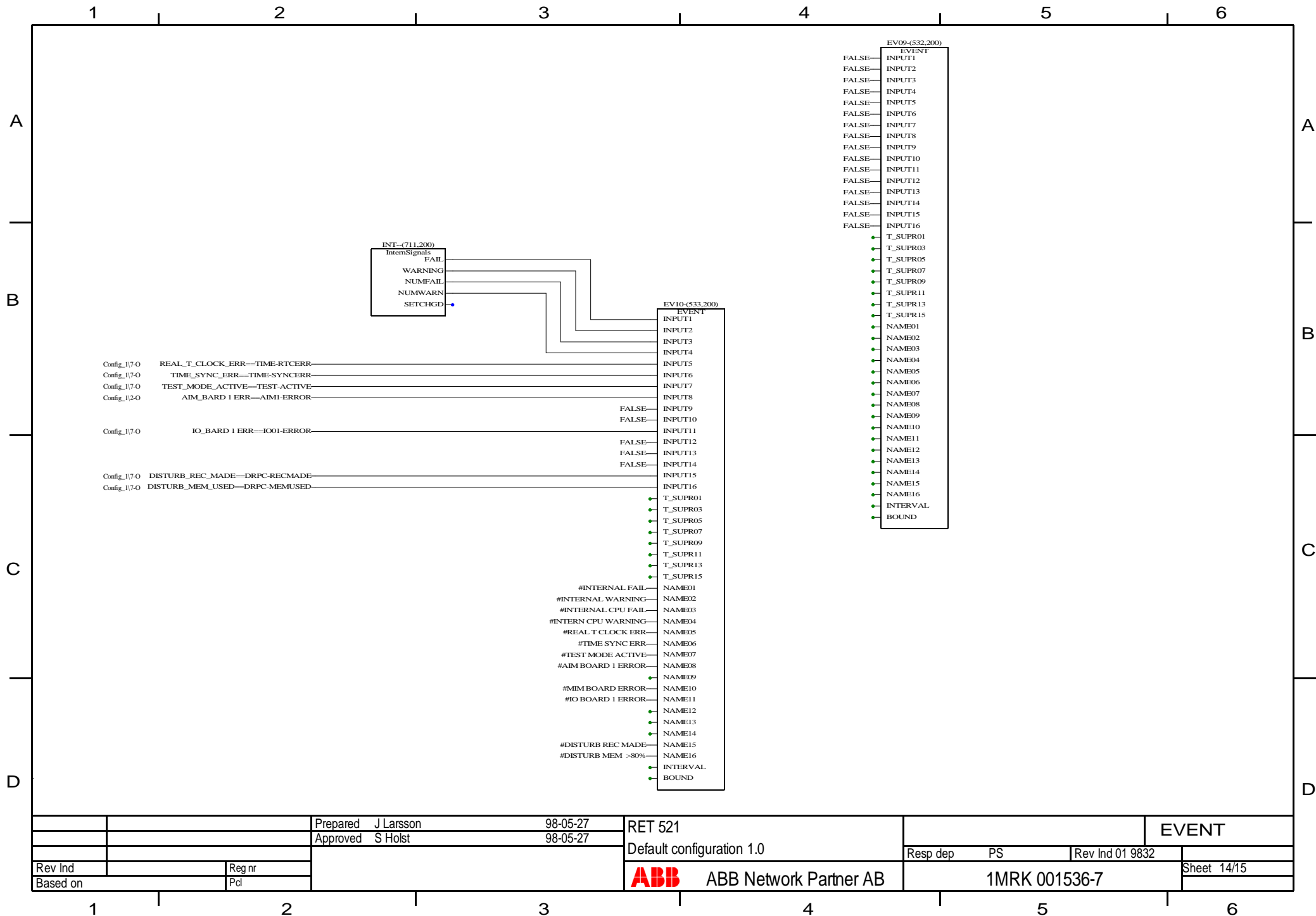
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Based on		Pcl			1MRK 001536-7			



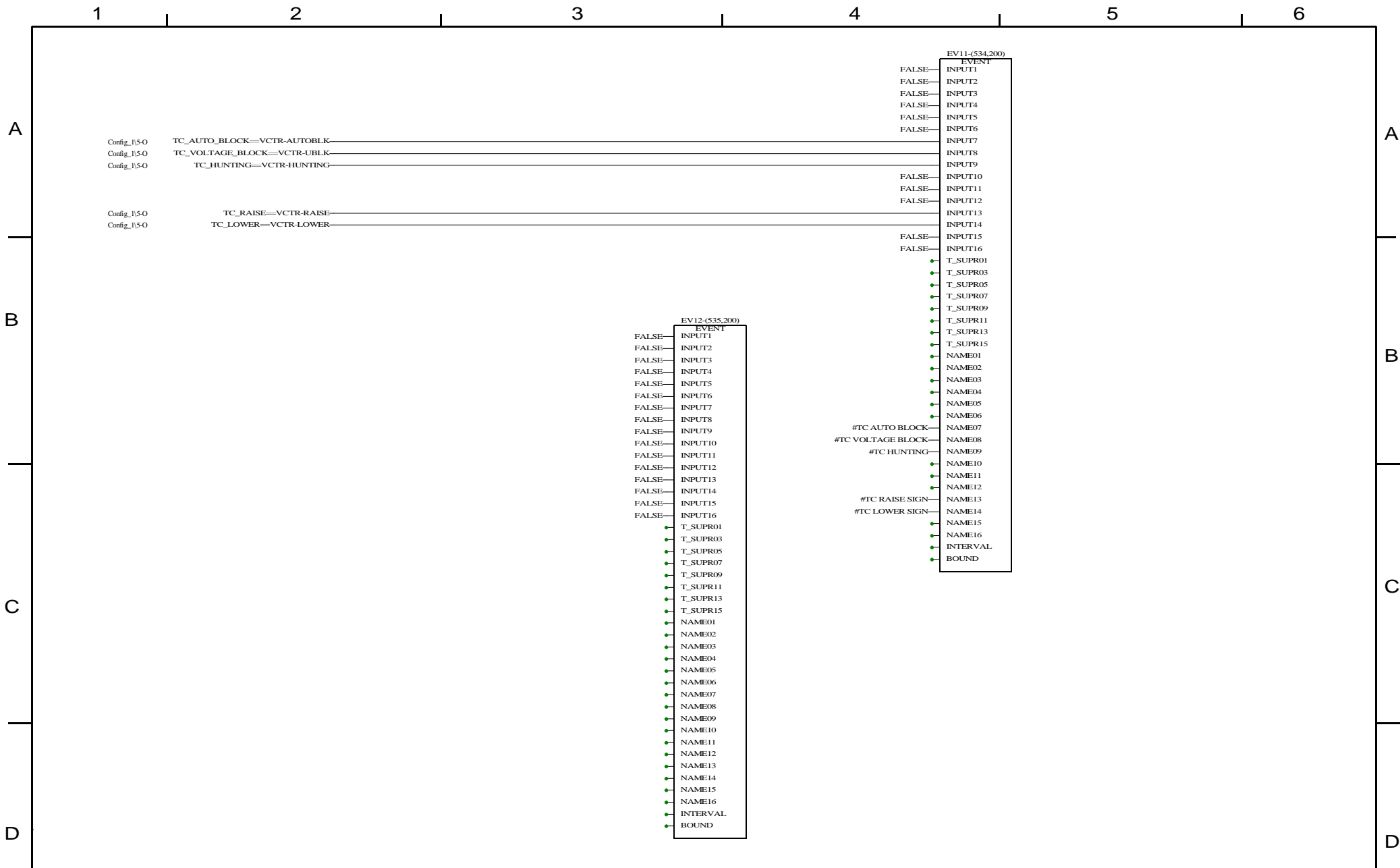
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Based on		Pcl							



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Rev Ind		Reg nr		ABB ABB Network Partner AB		1MRK 001536-7		Sheet 13/15
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Rev Ind		Reg nr		ABB ABB Network Partner AB		1MRK 001536-7		Sheet 14/15	
Based on		Pcl							




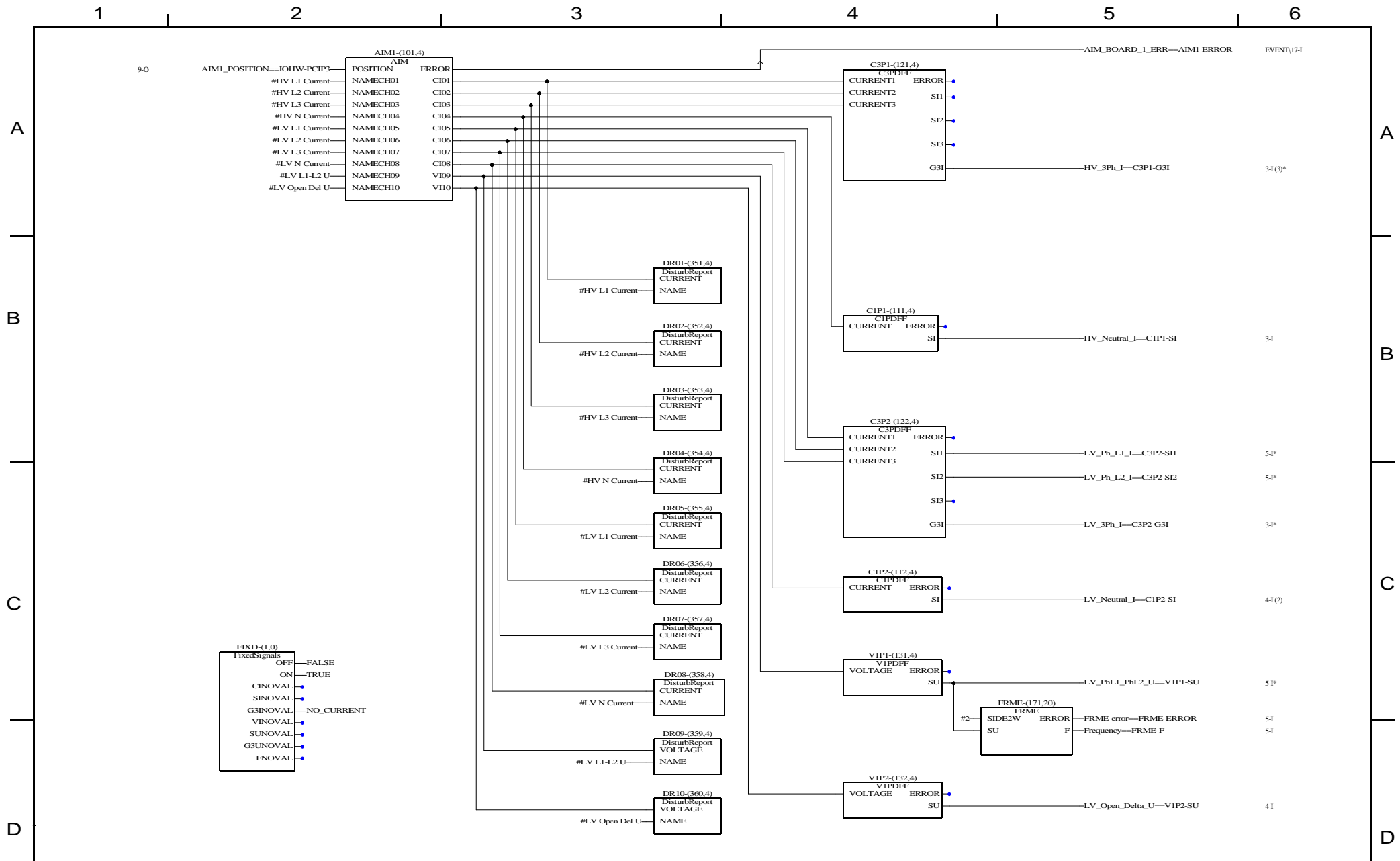
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Rev Ind		Reg nr		ABB ABB Network Partner AB	Resp dep PS	Rev Ind 01 9832	Sheet 15/15	
Based on		Pcl			1MRK 001536-7			

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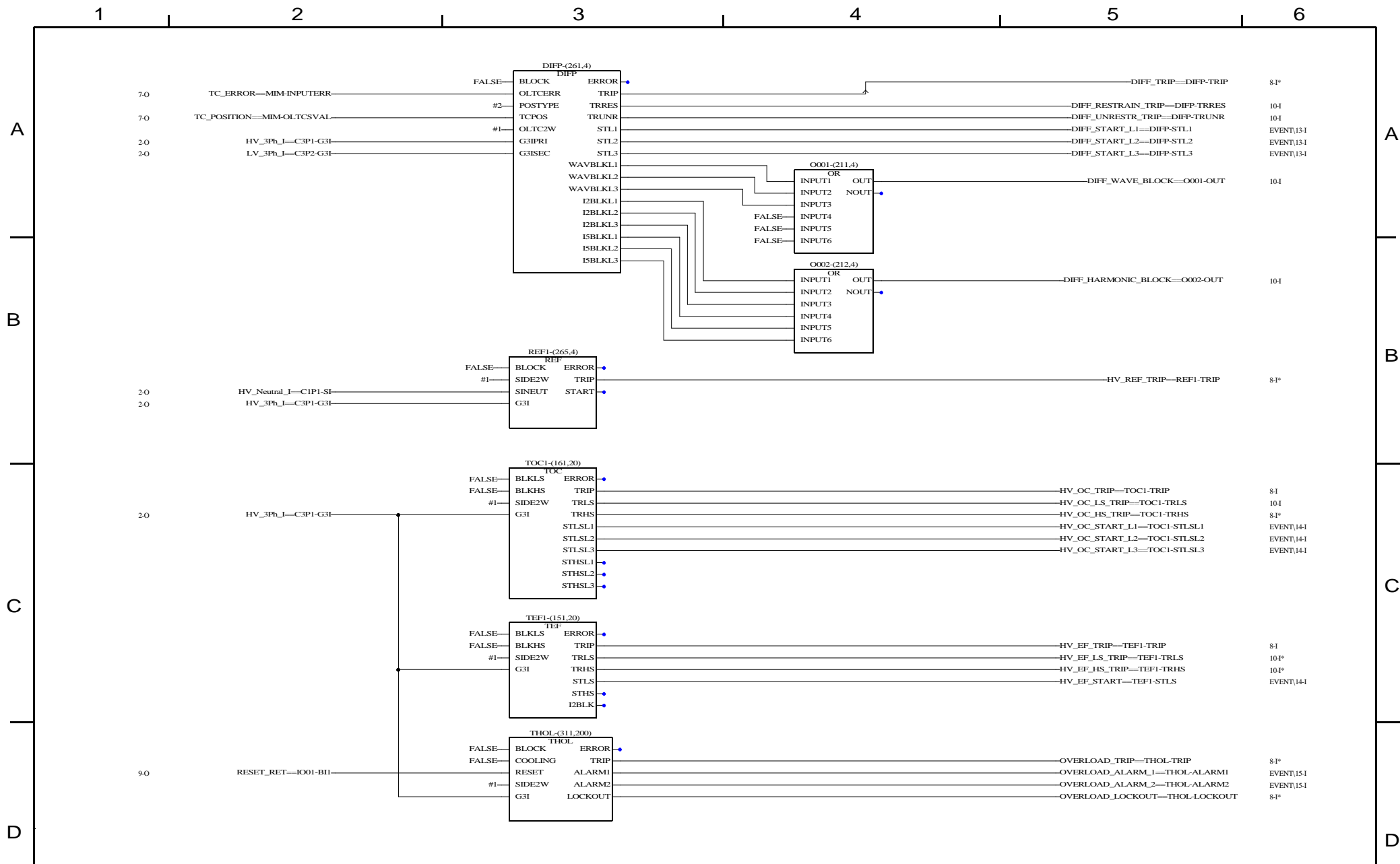
- List of Content
- Configuration of Analogue Quantities (AIM01) & Fixed Variables
- Differential & HV Protection Functions
- LV Protection Functions
- LV Protection Functions
- Voltage Control Function Remote command
- Voltage Control Function & Tap Position Reading
- Tripping Logic
- Configuration of Binary Inputs & Outputs (BIOM01)
- Configuration of Disturbance Report
- Configuration of Event Recording

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Rev Ind		Reg nr			 ABB ABB Network Partner AB	1MRK 001536-8		Sheet 1/18
Based on		Pcl						



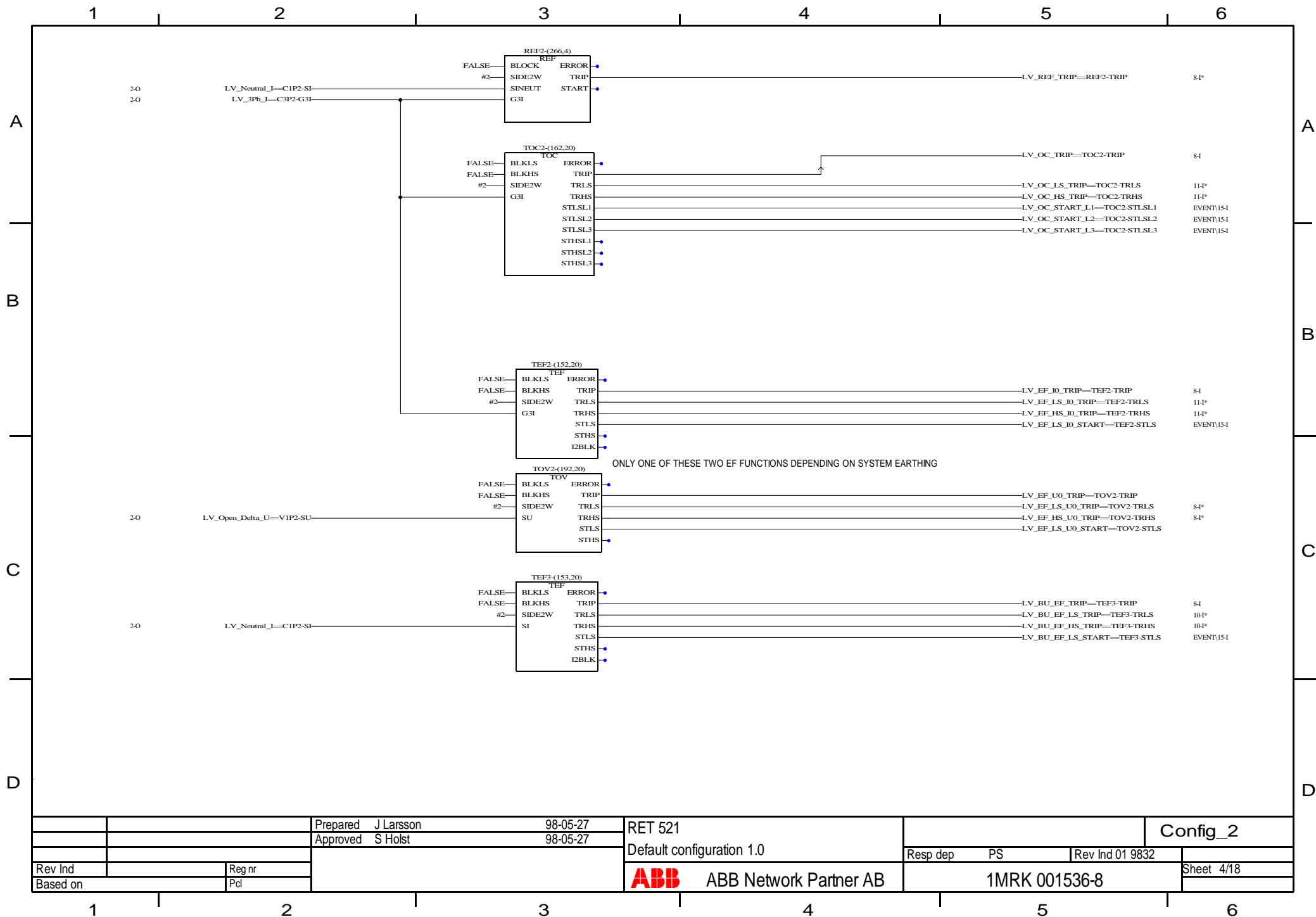
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Based on		Pcl				Sheet 2/18	
				ABB ABB Network Partner AB		1MRK 001536-8	



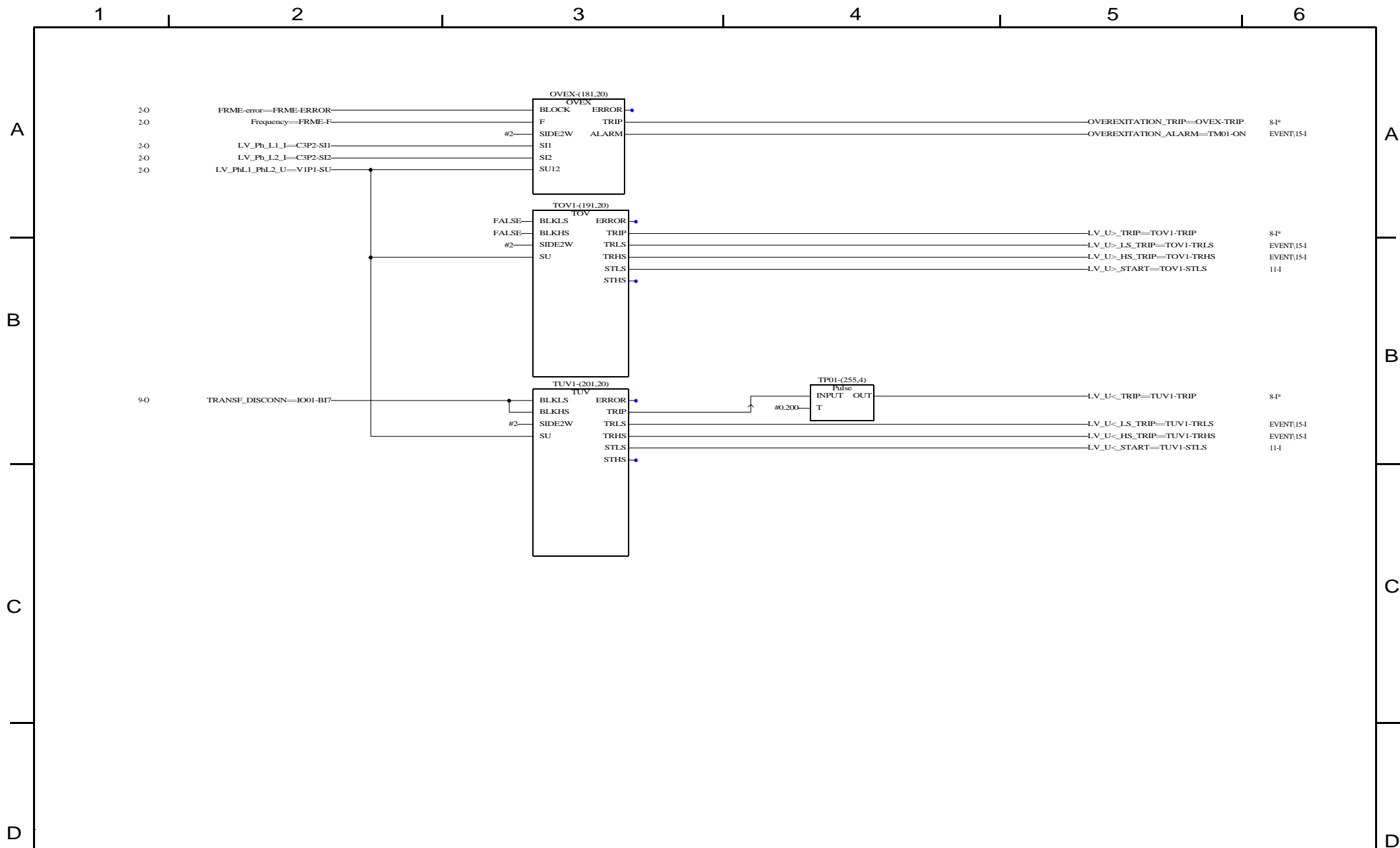
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Based on	Pcl		1MRK 001536-8			



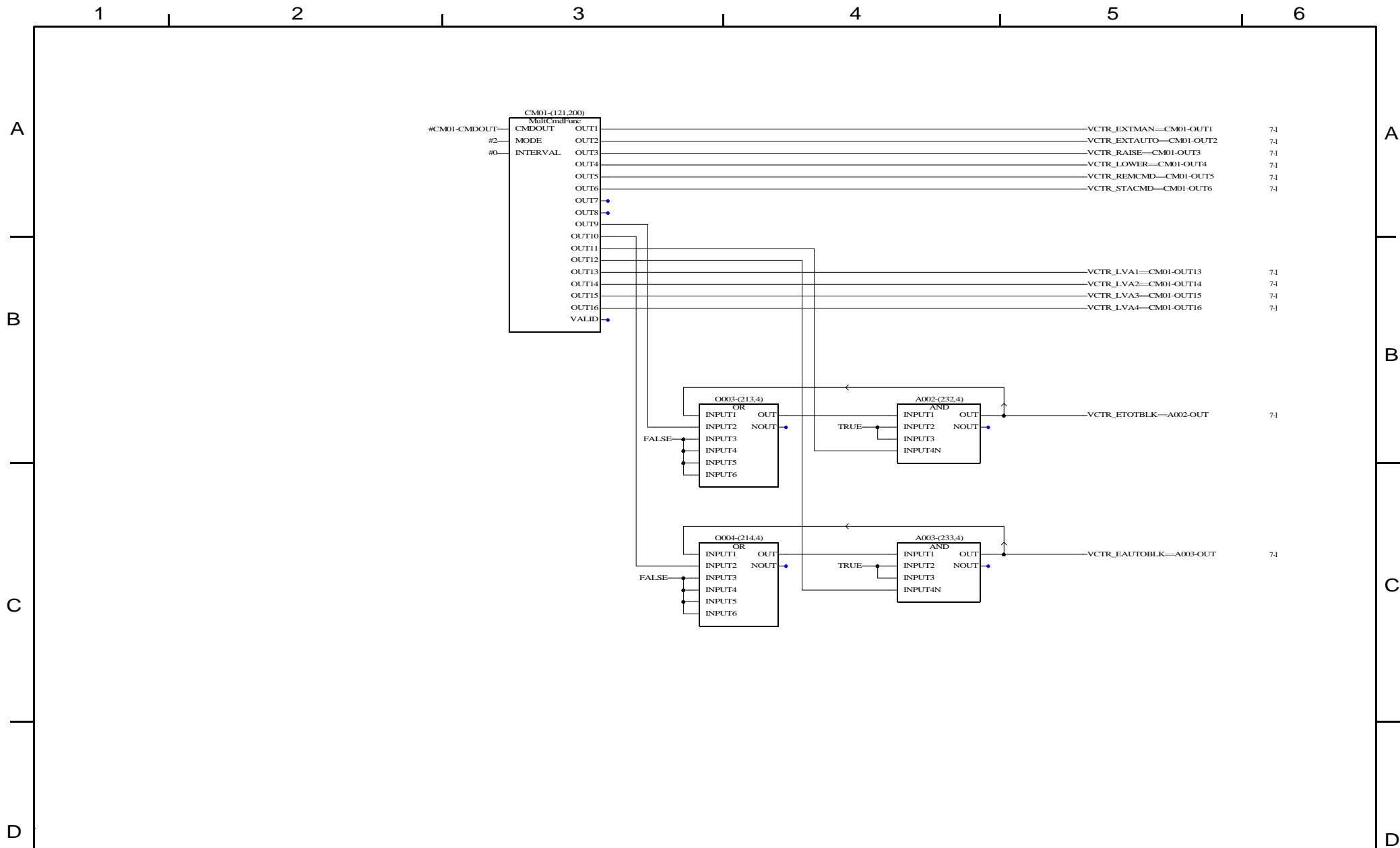
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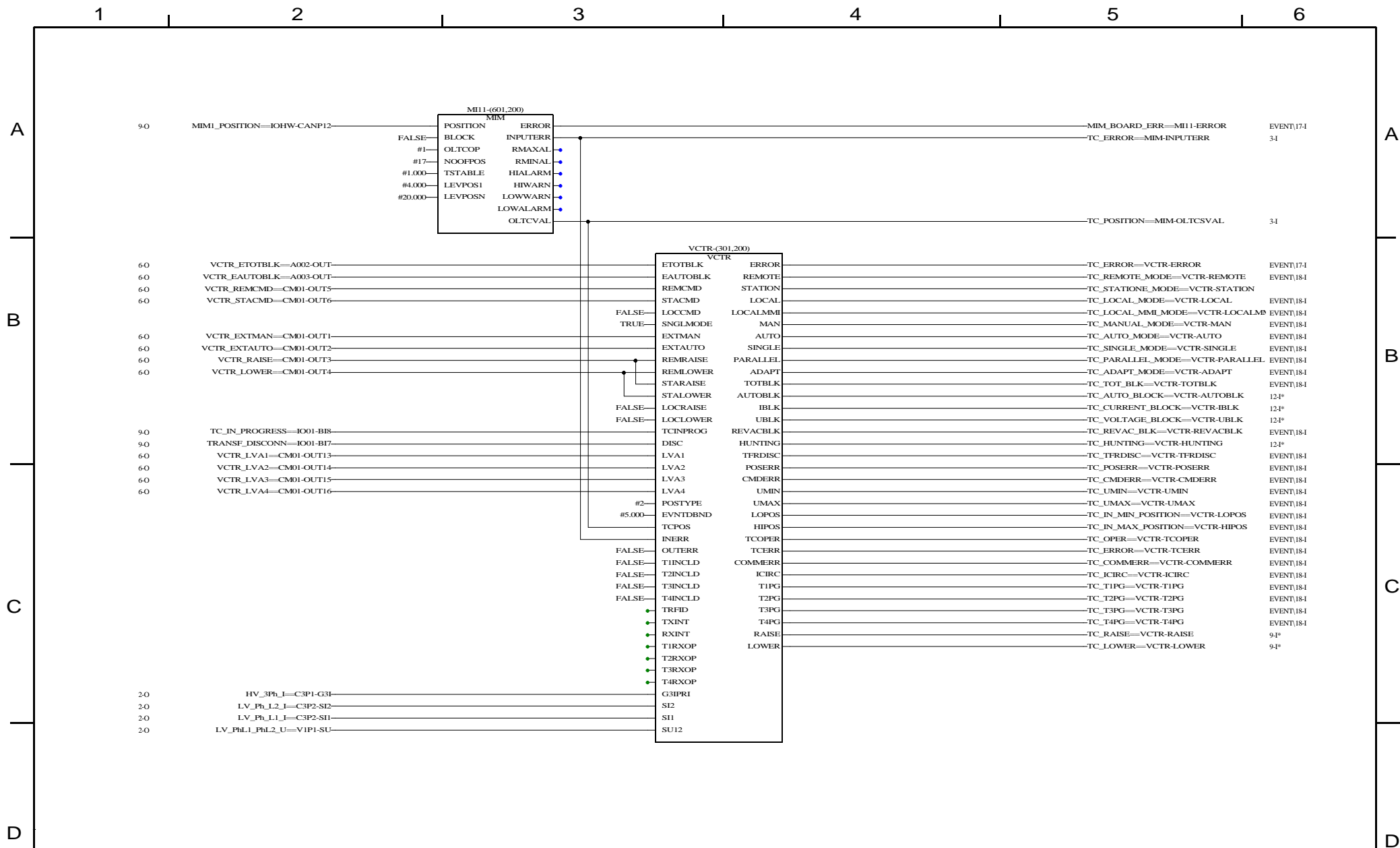
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Based on		Pcl				1MRK 001536-8	Sheet 4/18




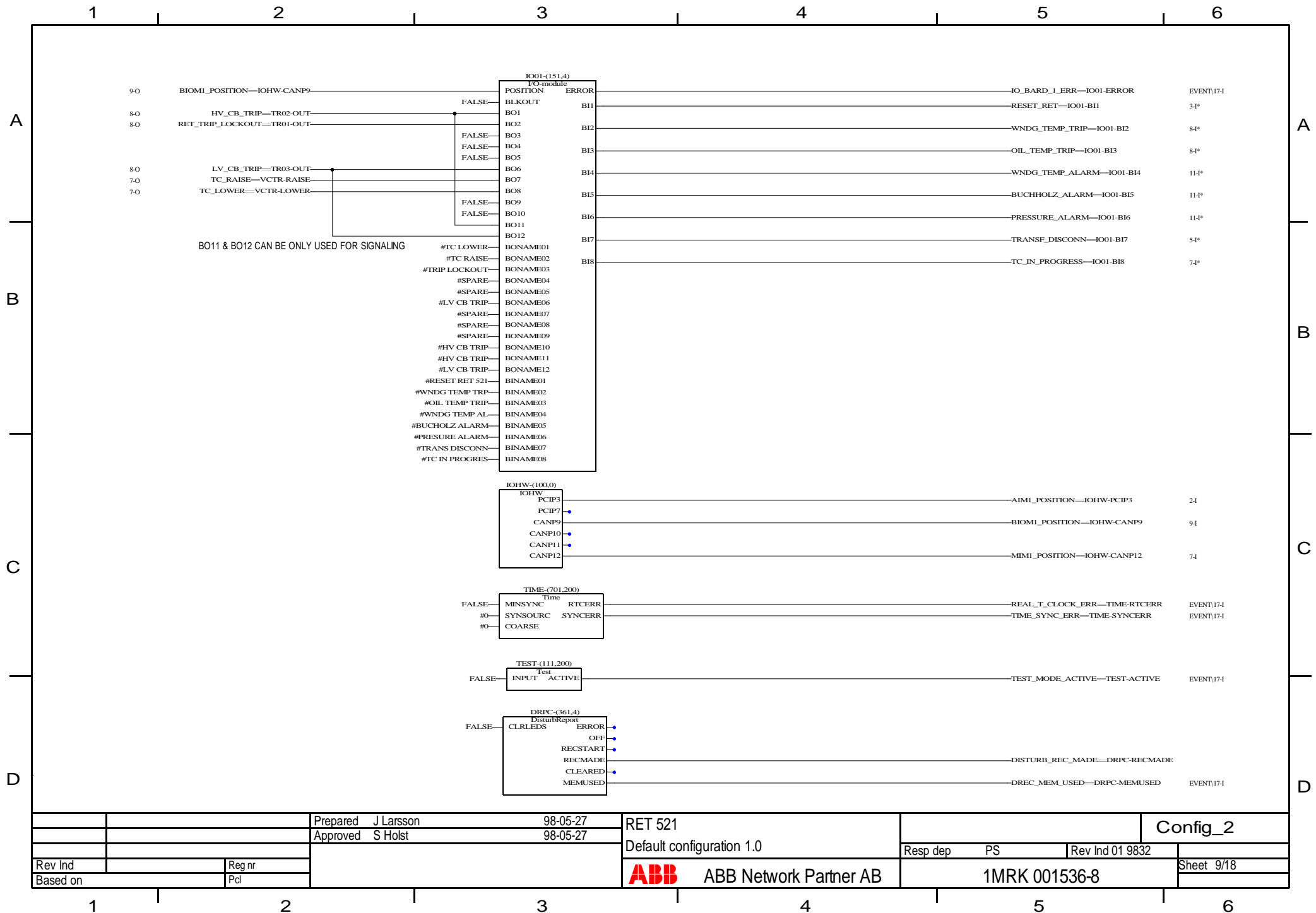
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Based on		Pcl				1MRK 001536-8	Sheet 5/18

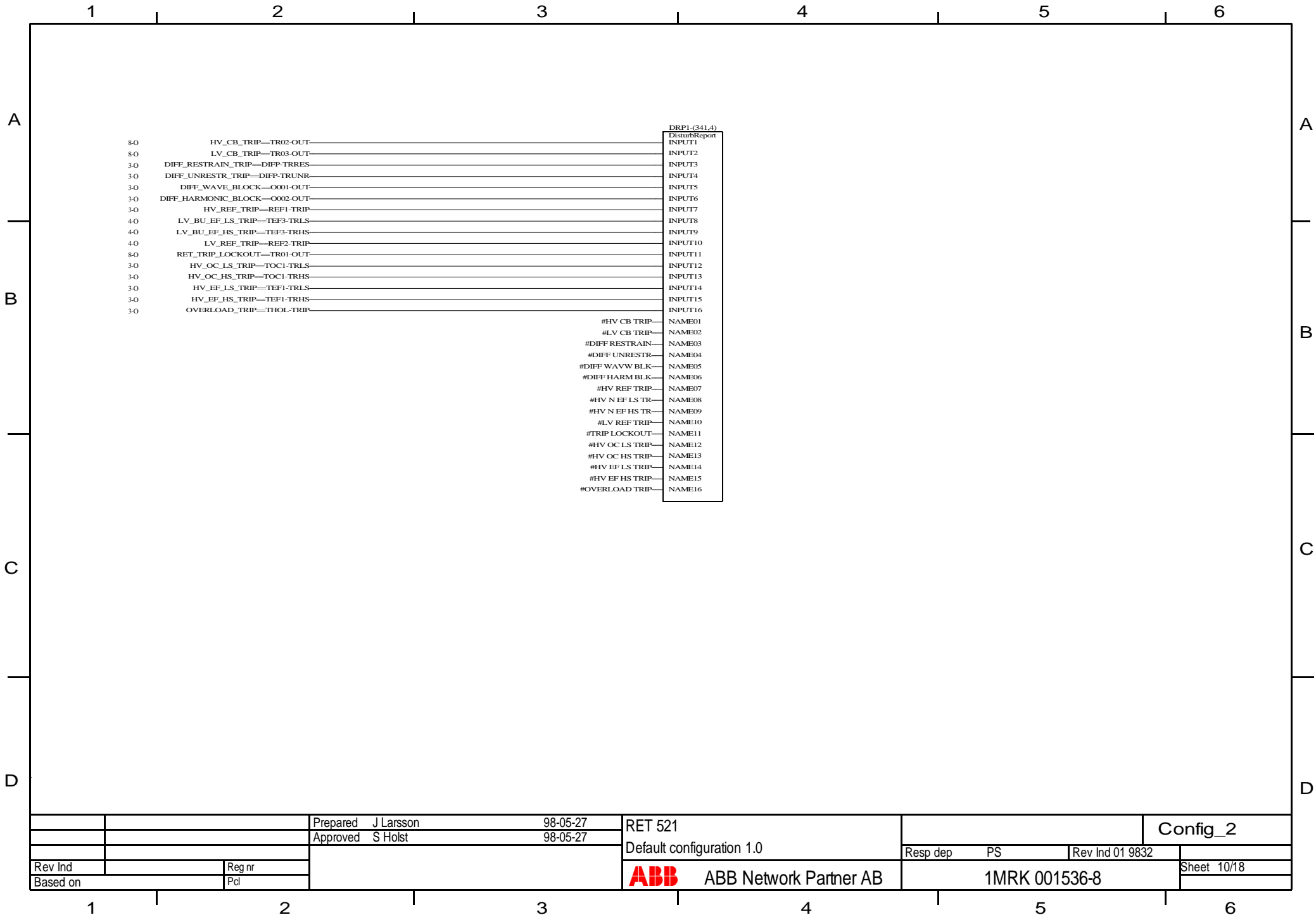


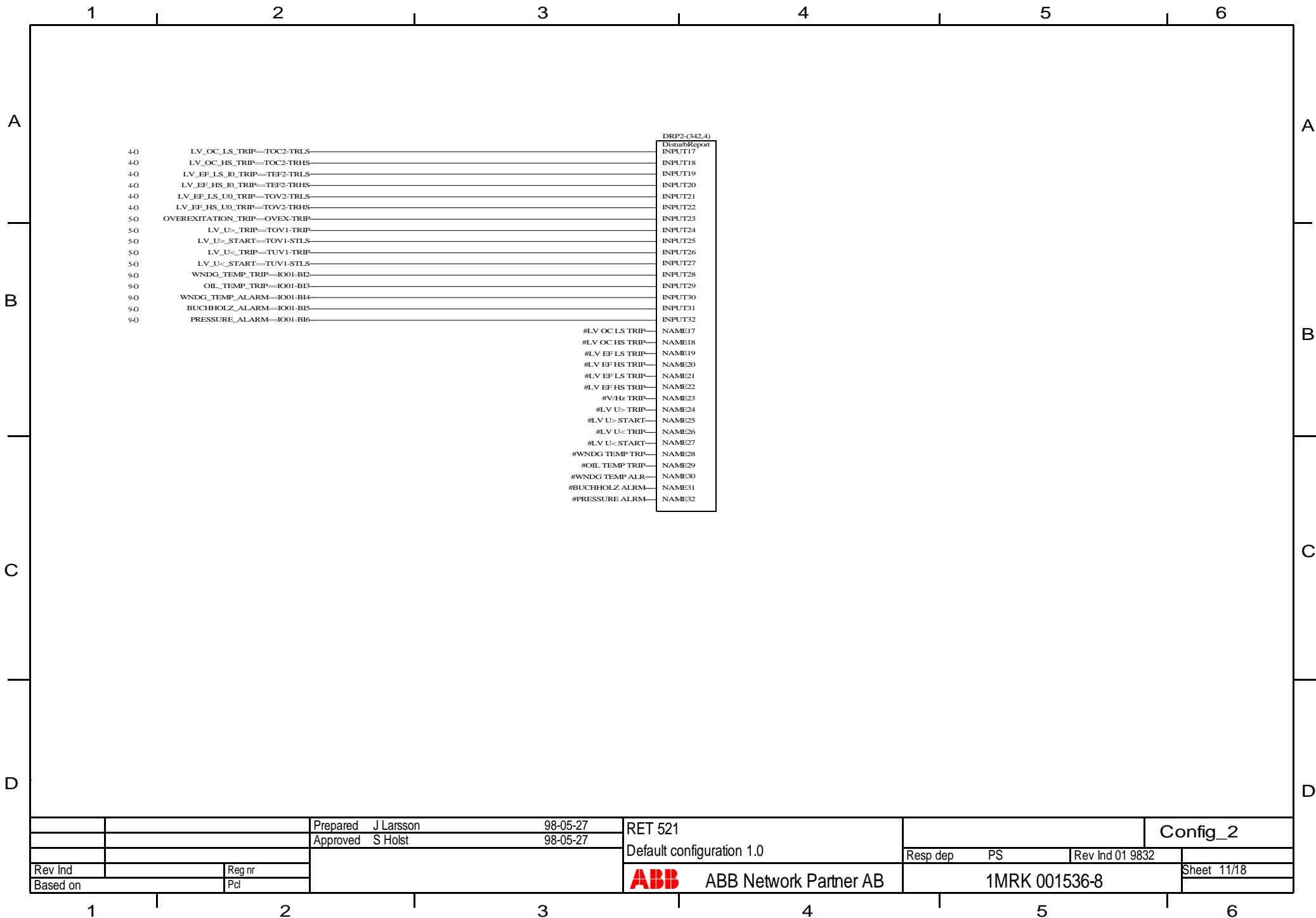
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Based on		Pcl				1MRK 001536-8	Sheet 6/18

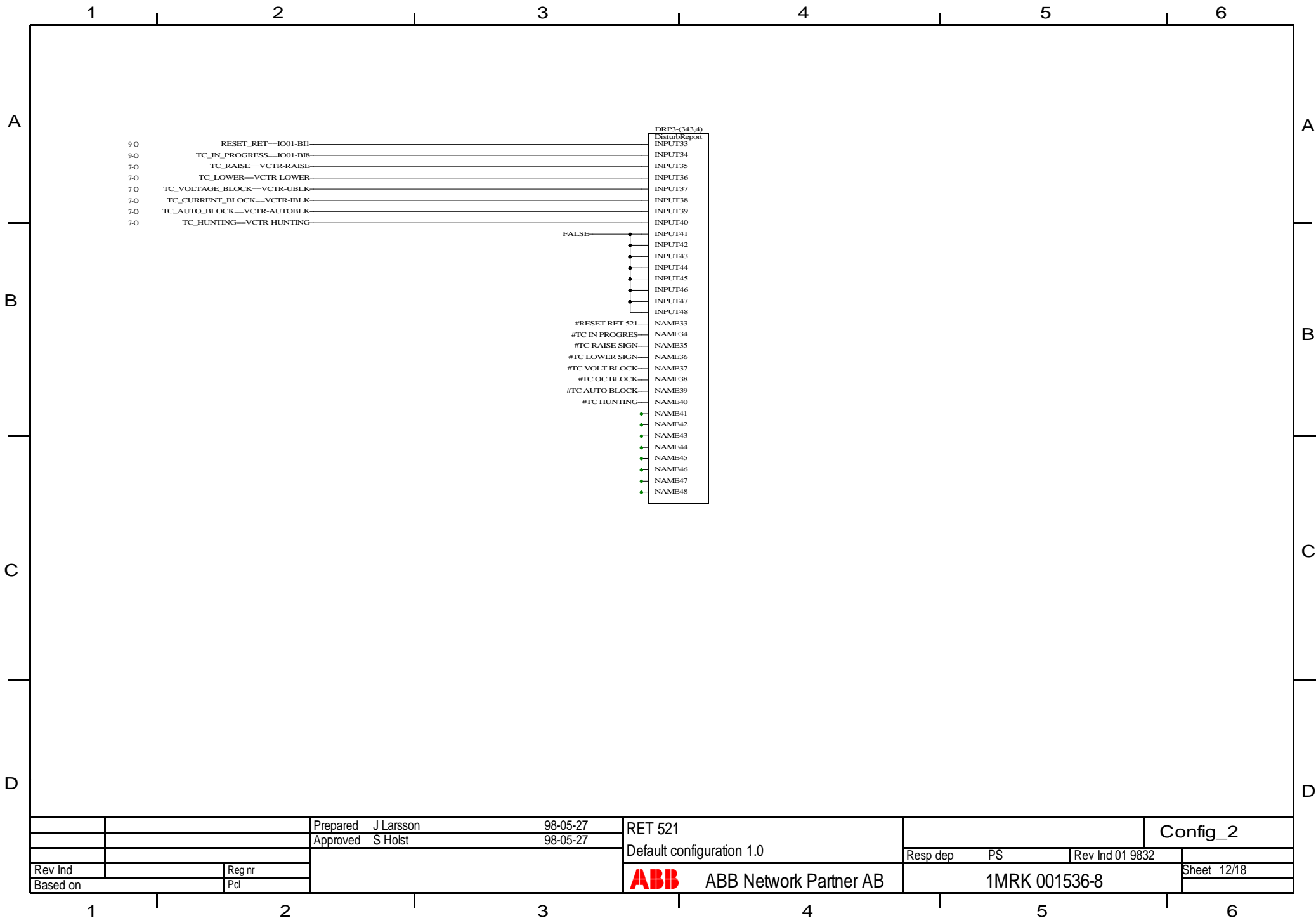


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Rev Ind	Reg nr	 ABB Network Partner AB		Sheet 7/18	
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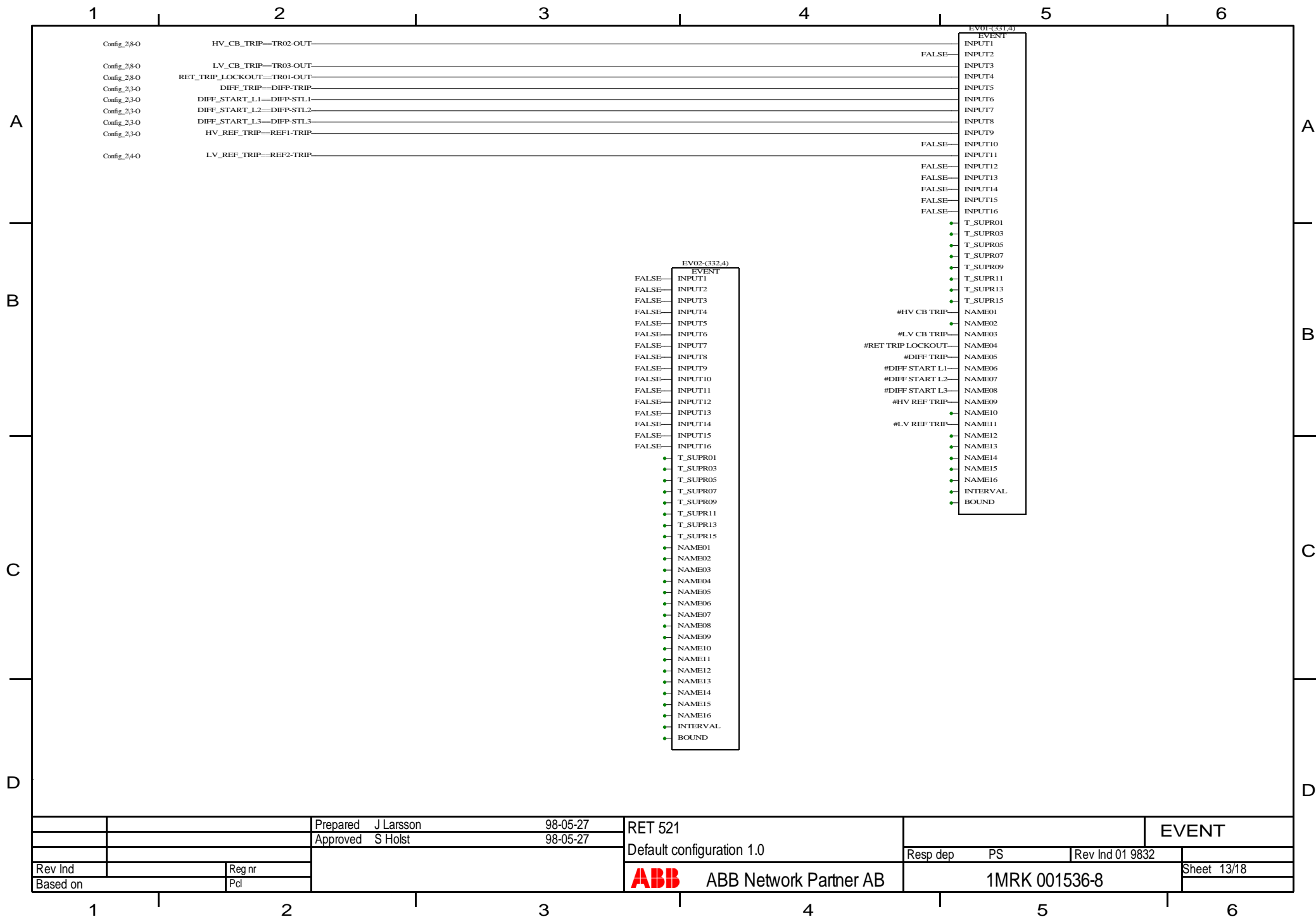


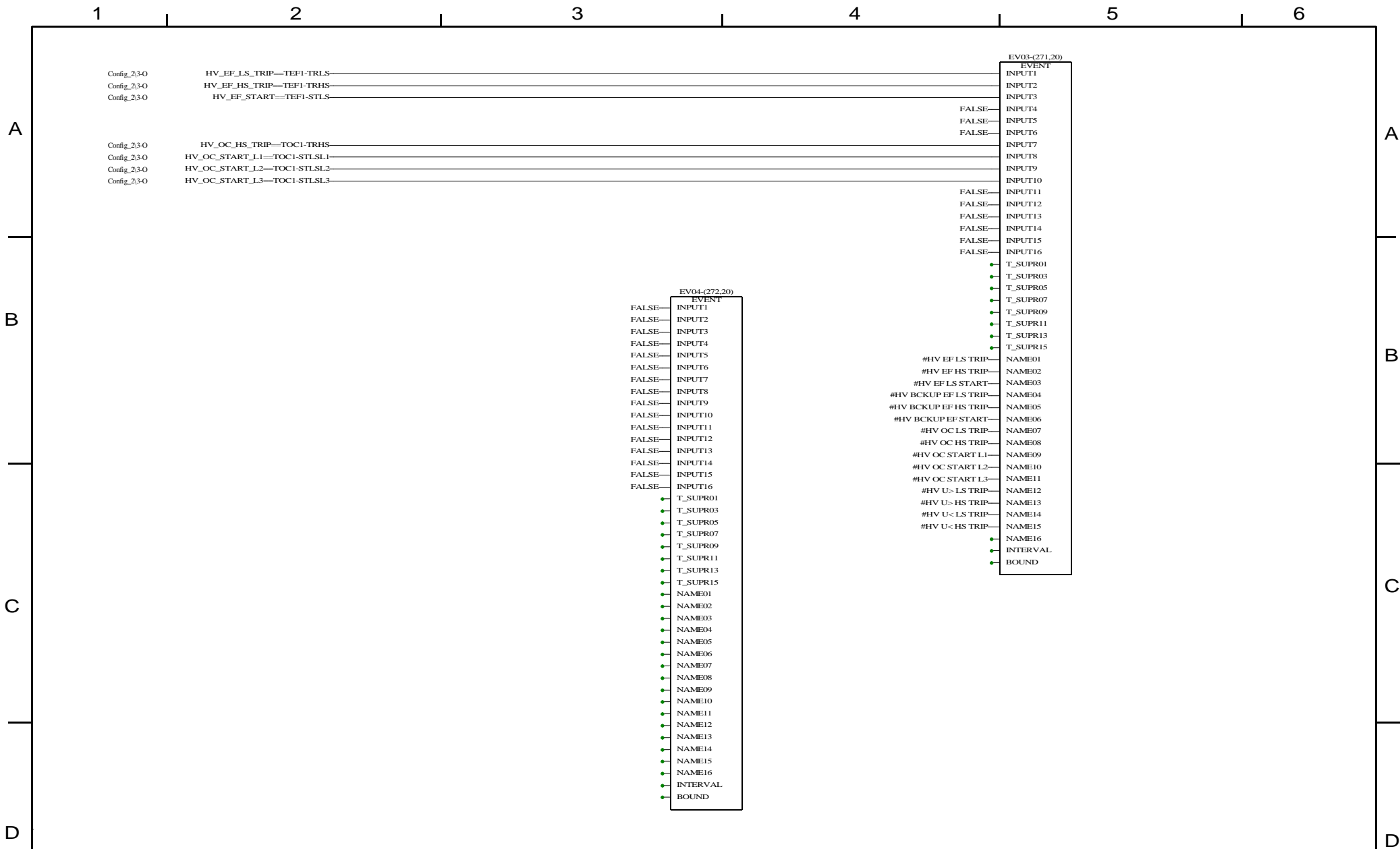




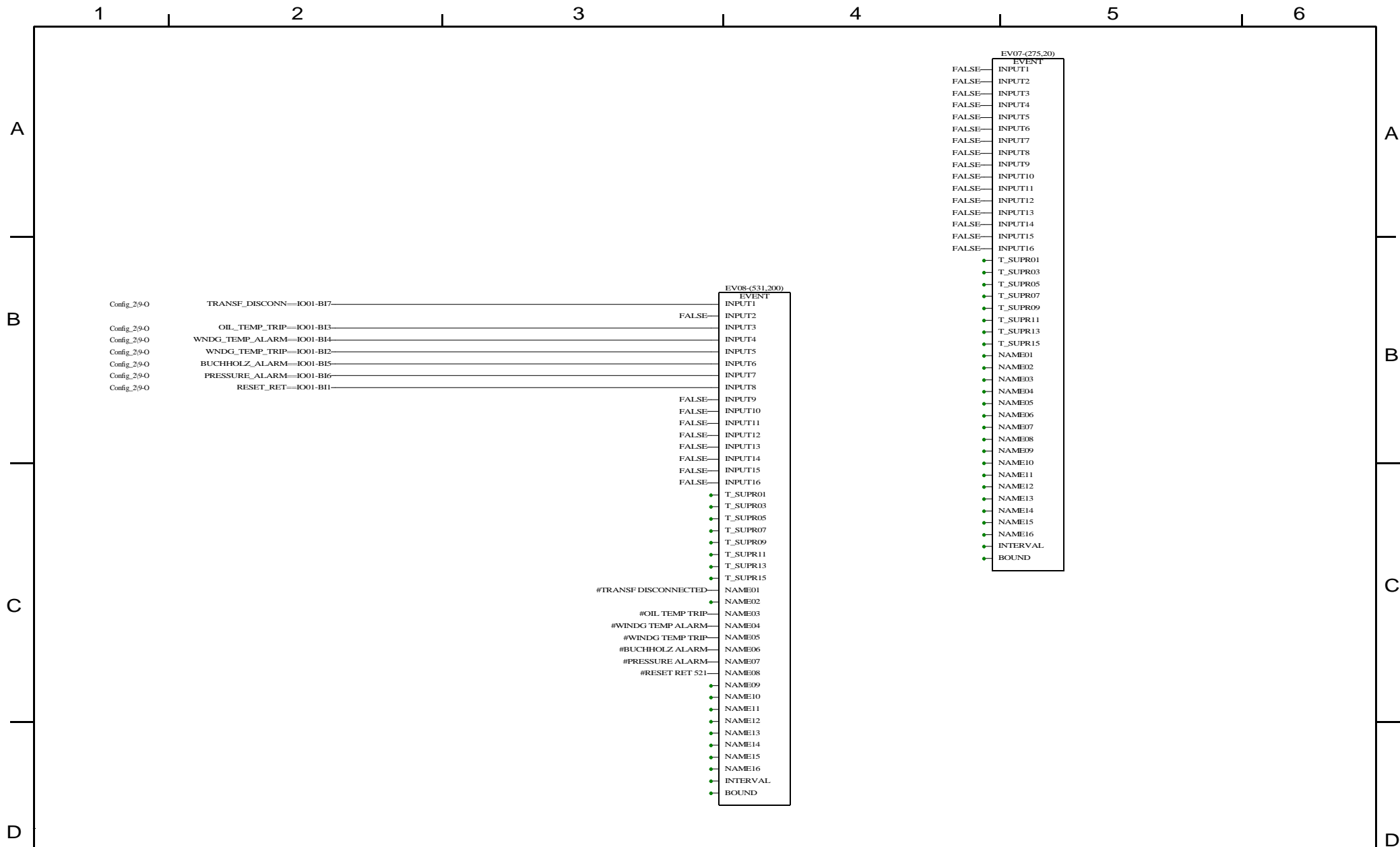


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Rev Ind		Reg nr		ABB ABB Network Partner AB	1MRK 001536-8		Sheet 12/18
Based on		Pcl					

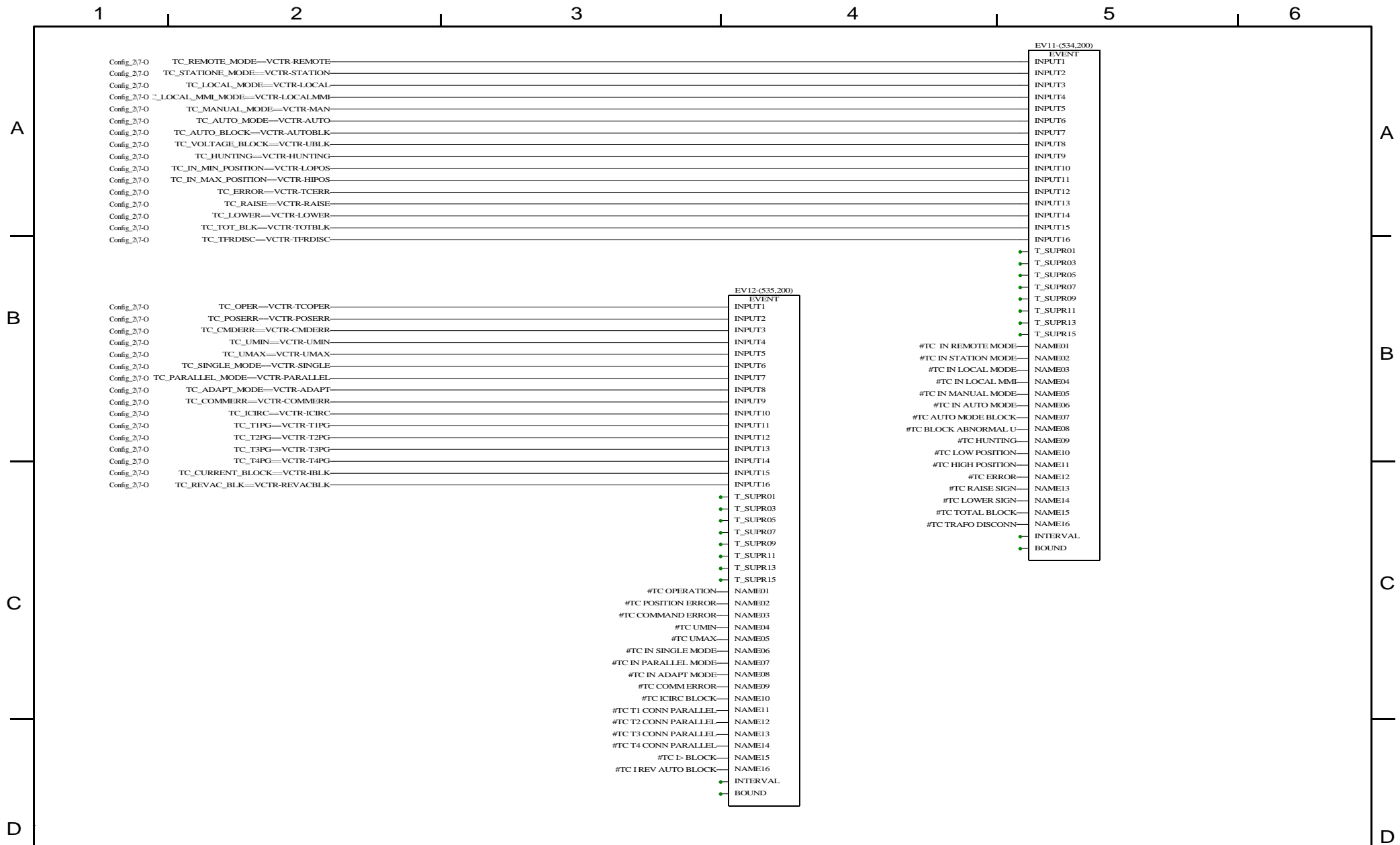




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Rev Ind		Reg nr		ABB ABB Network Partner AB	1MRK 001536-8		Sheet 14/18	
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Rev Ind		Reg nr		ABB ABB Network Partner AB		1MRK 001536-8		Sheet 16/18
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Rev Ind		Reg nr		ABB ABB Network Partner AB	Resp dep PS	Rev Ind 01 9832	Sheet 18/18	
Based on		Pcl			1MRK 001536-8			

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5

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A

A

Description

- List of Content
- Configuration of Analogue Quantities (AIM01) & Fixed Variables
- Differential & HV Protection Functions
- HV Protection Functions
- LV Protection Functions
- Voltage Control Function & Tap Position Reading
- Tripping Logic
- Configuration of Binary Inputs (BIM1)
- Configuration of Binary Outputs (BOM2)
- Configuration of Disturbance Report
- Configuration of Event Recording

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B

B


C

C

D

D

01	980807/LF	Layout changes
Rev	Date/sign	Comment

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Rev Ind		Reg nr		 ABB Network Partner AB	1MRK 001536-9		Sheet 1/18
Based on		Pcl					

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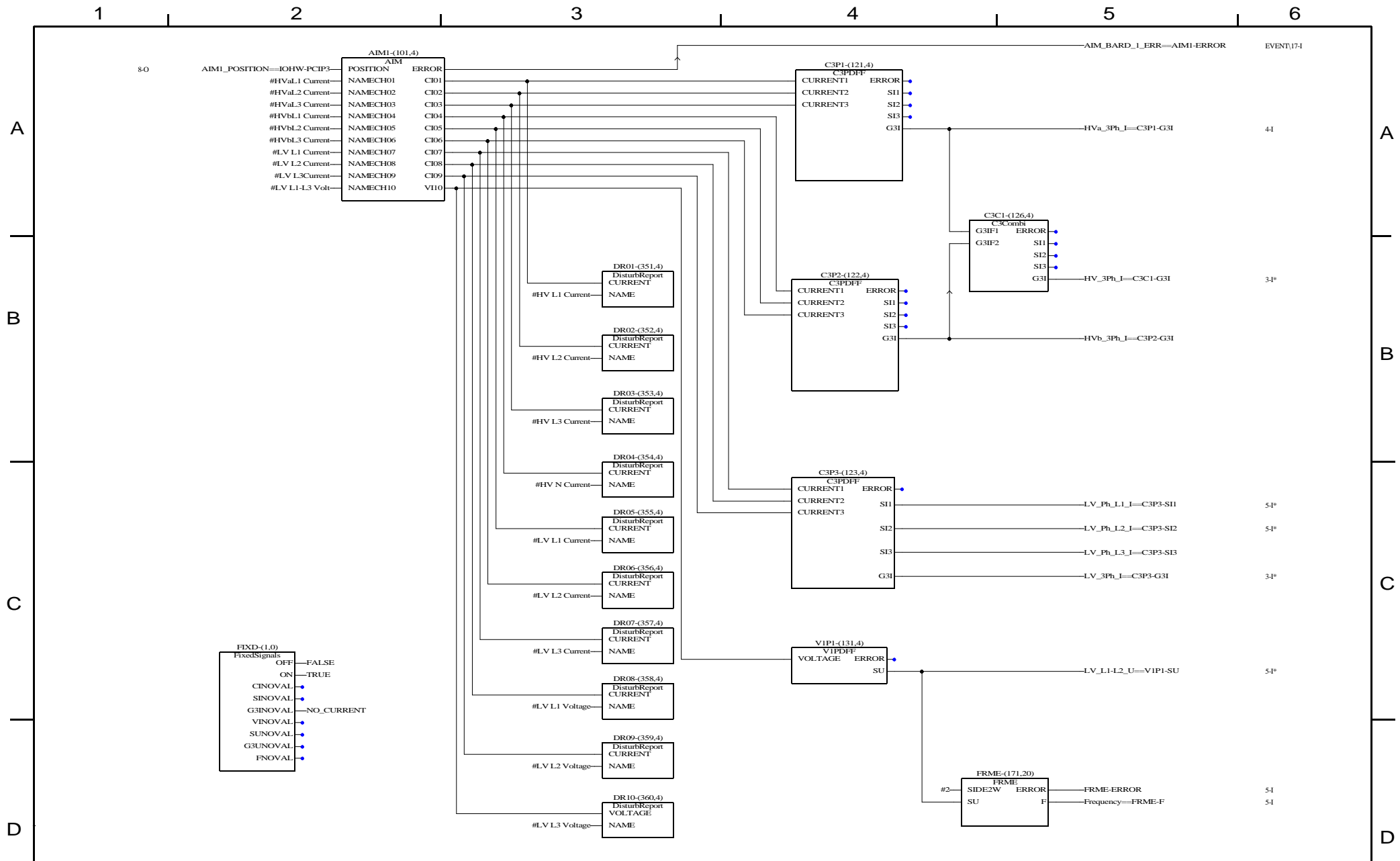
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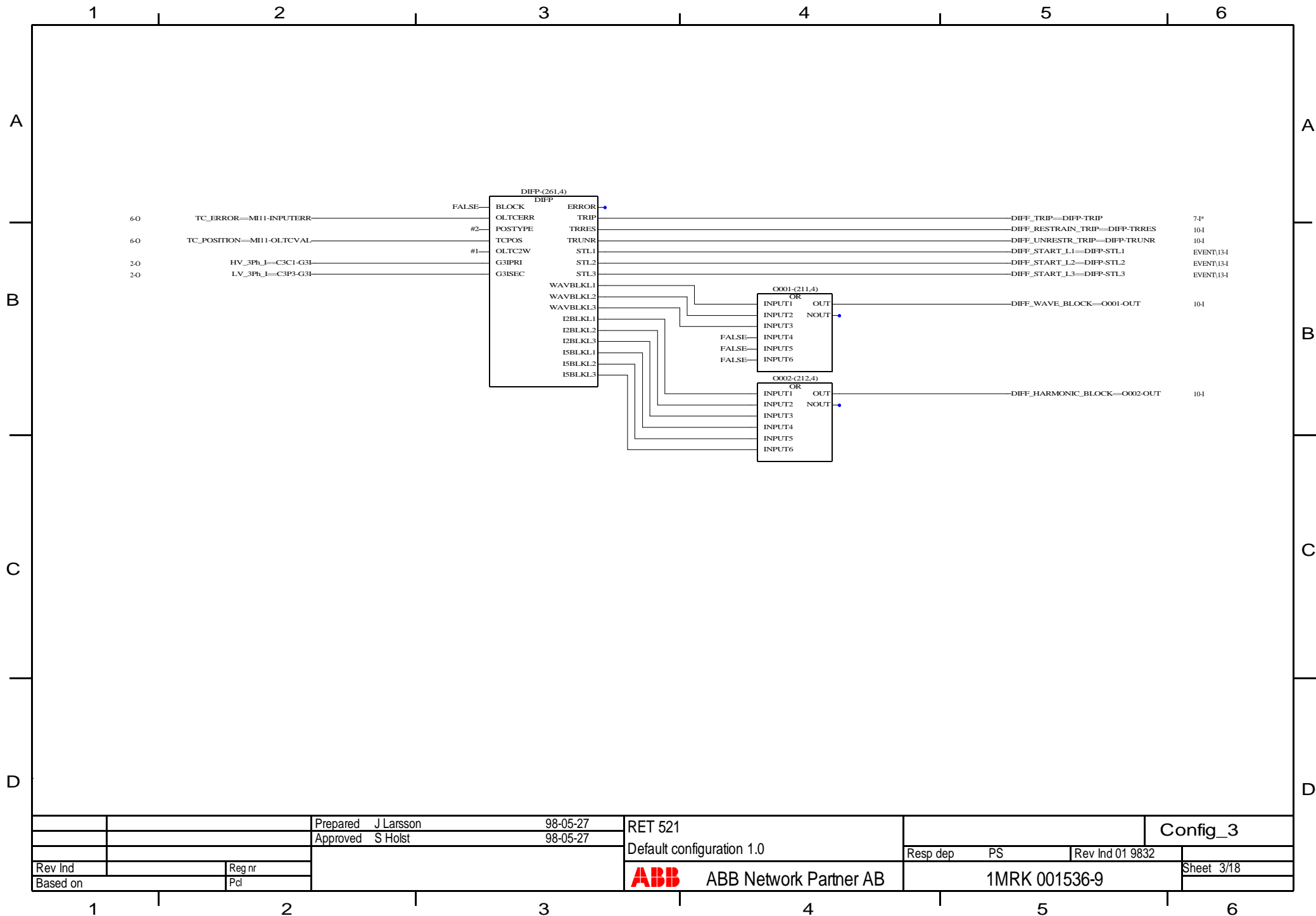
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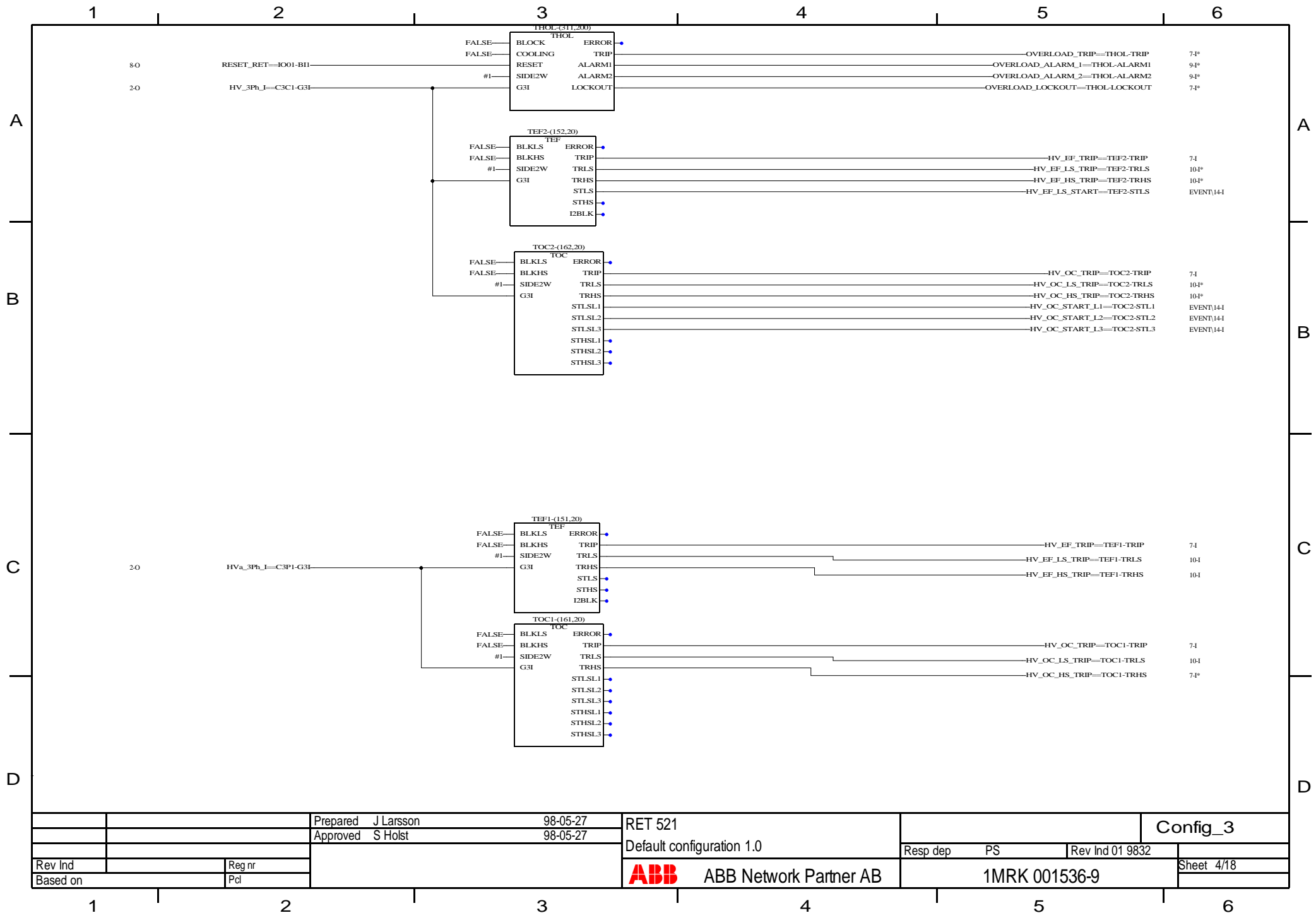
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Rev Ind	Reg nr		Resp dep PS		Sheet 2/18	
Based on	Pcl		1MRK 001536-9			

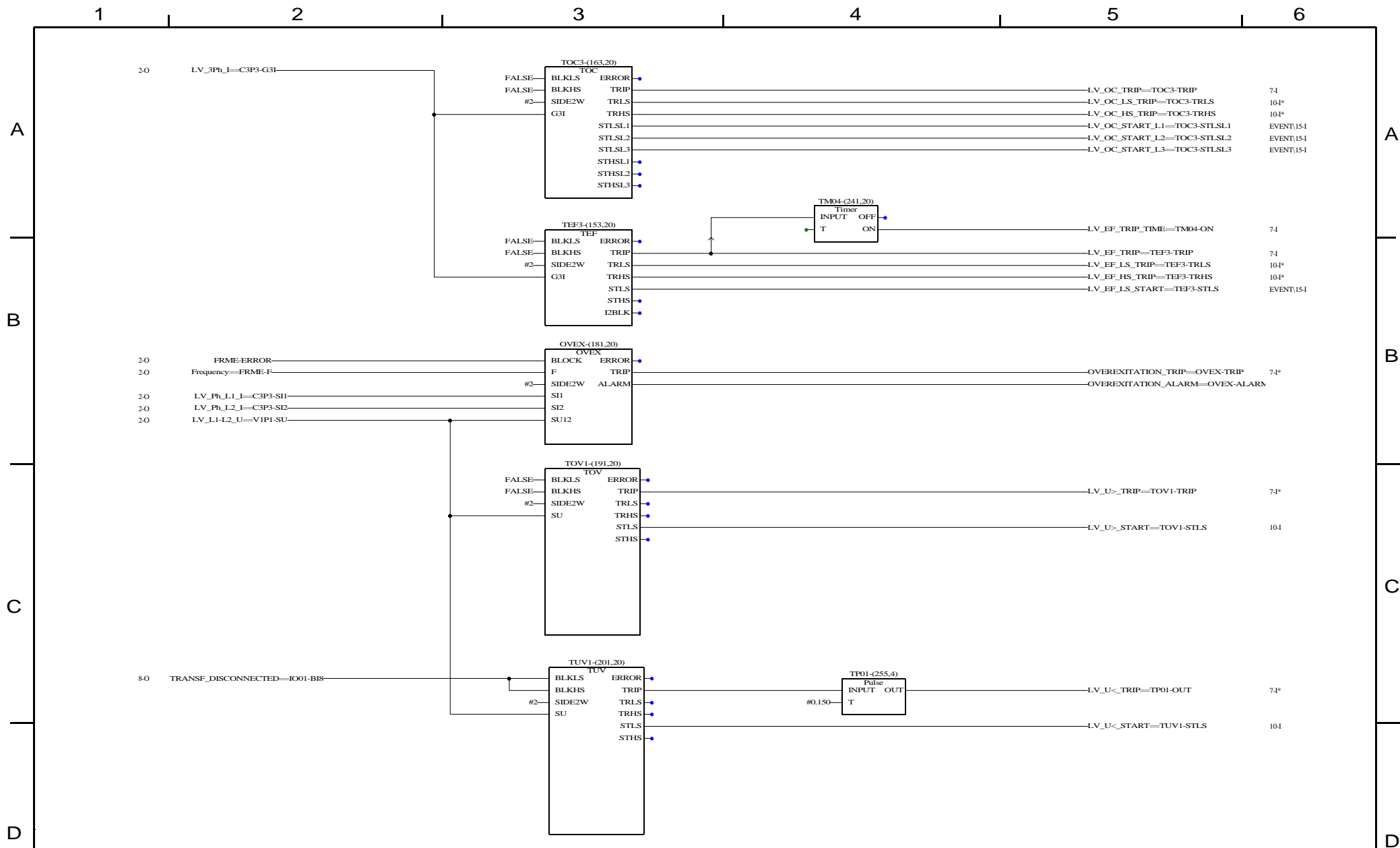


ABB Network Partner AB

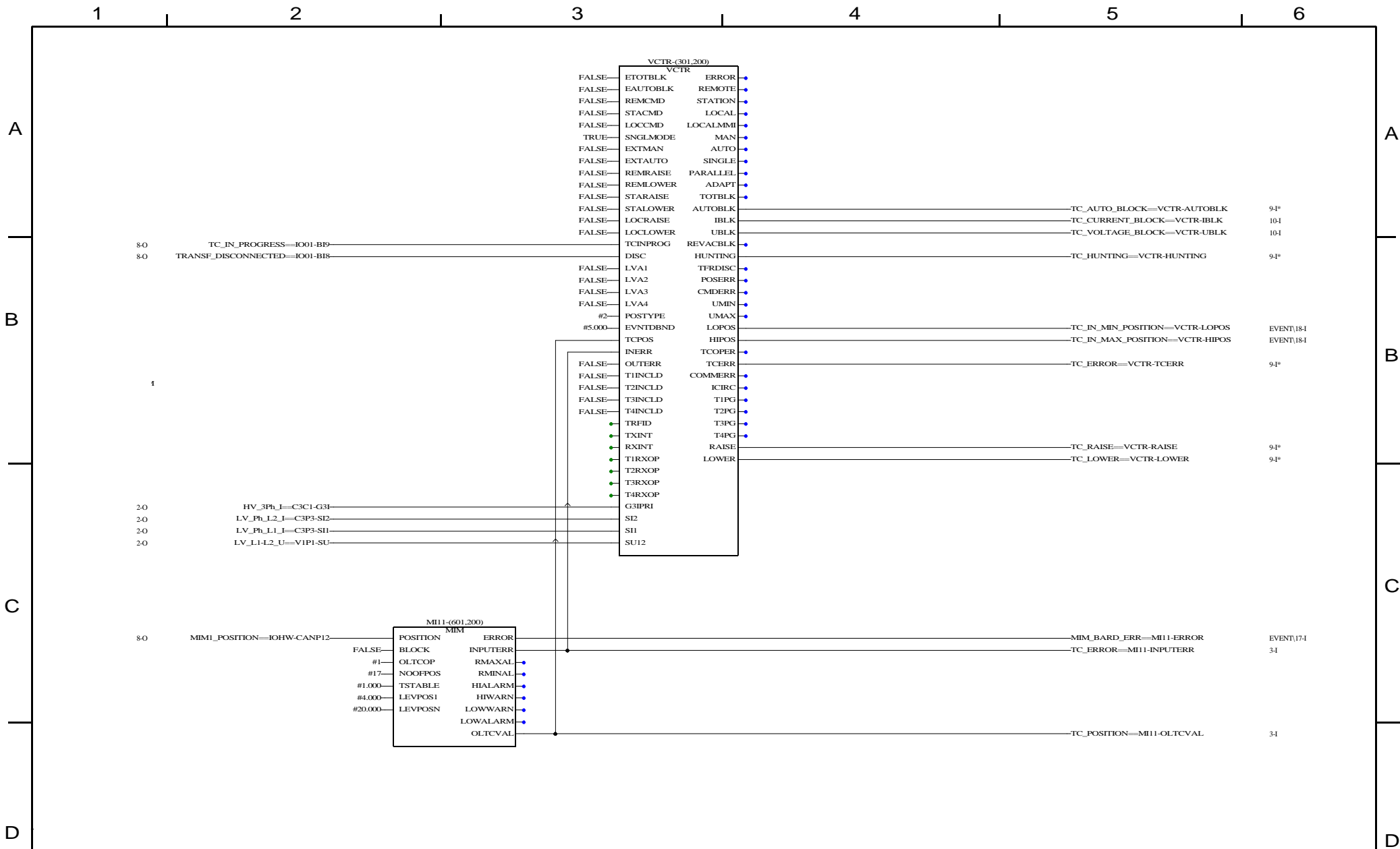


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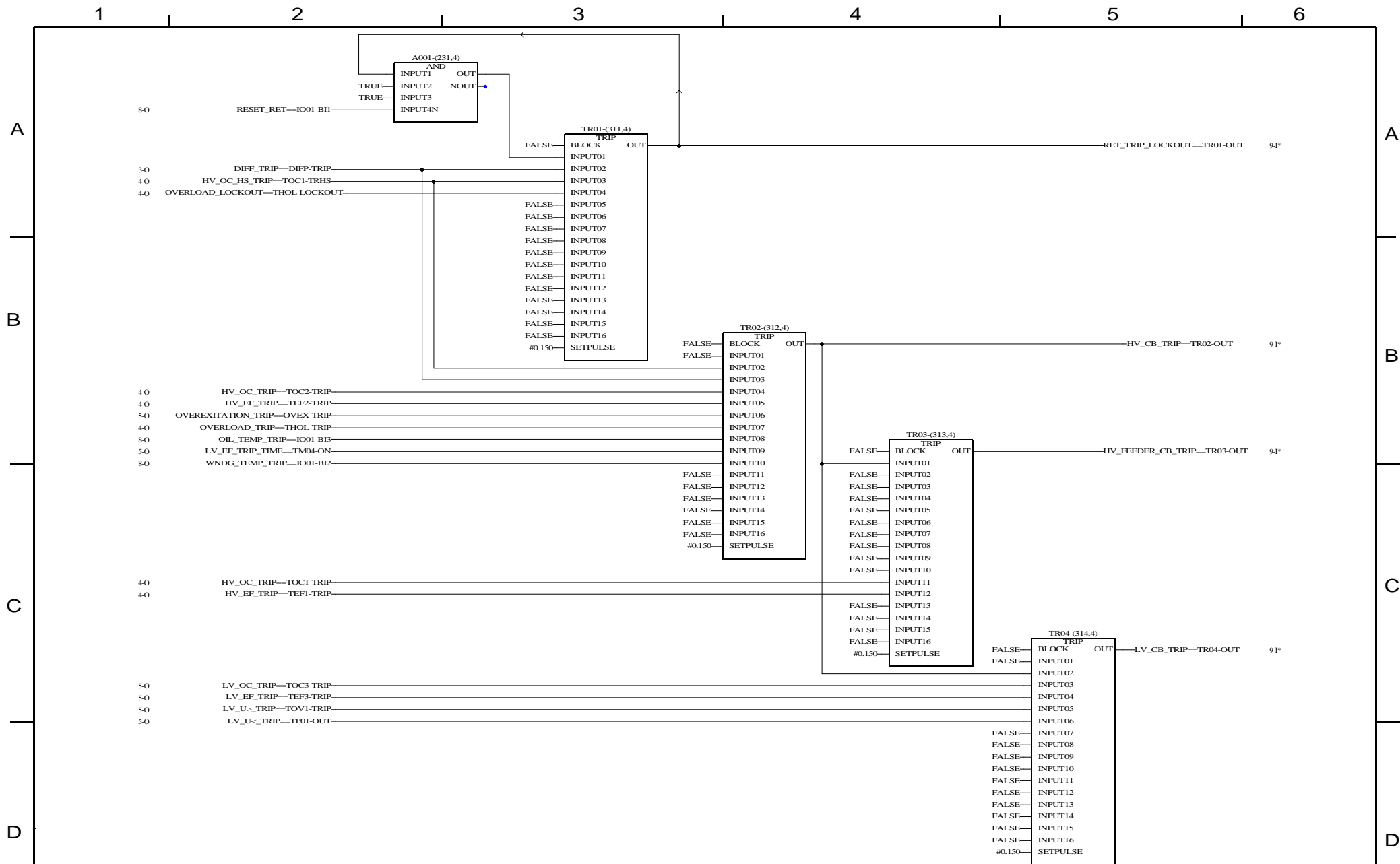




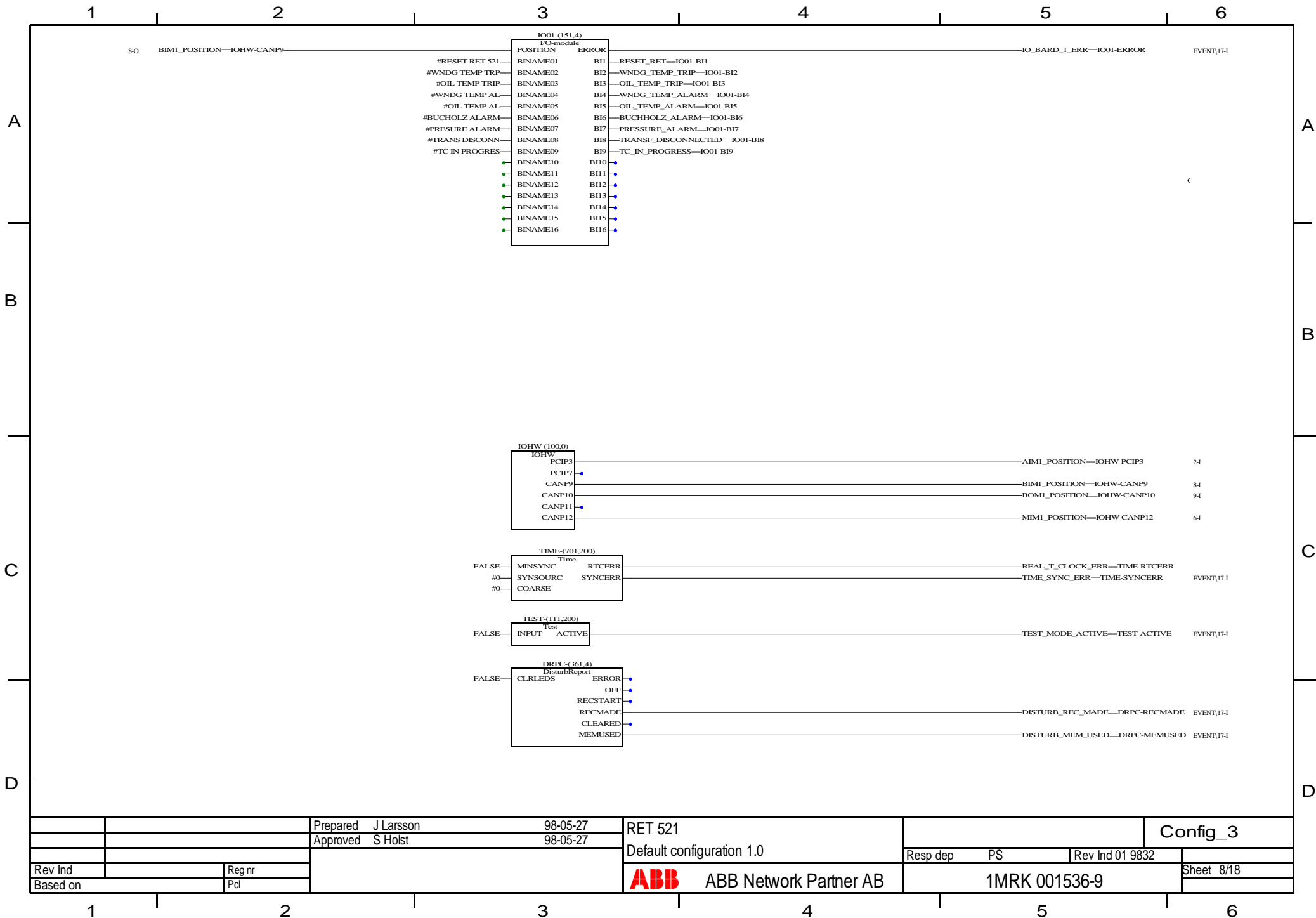
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Based on	Pcl			Sheet 5/18	

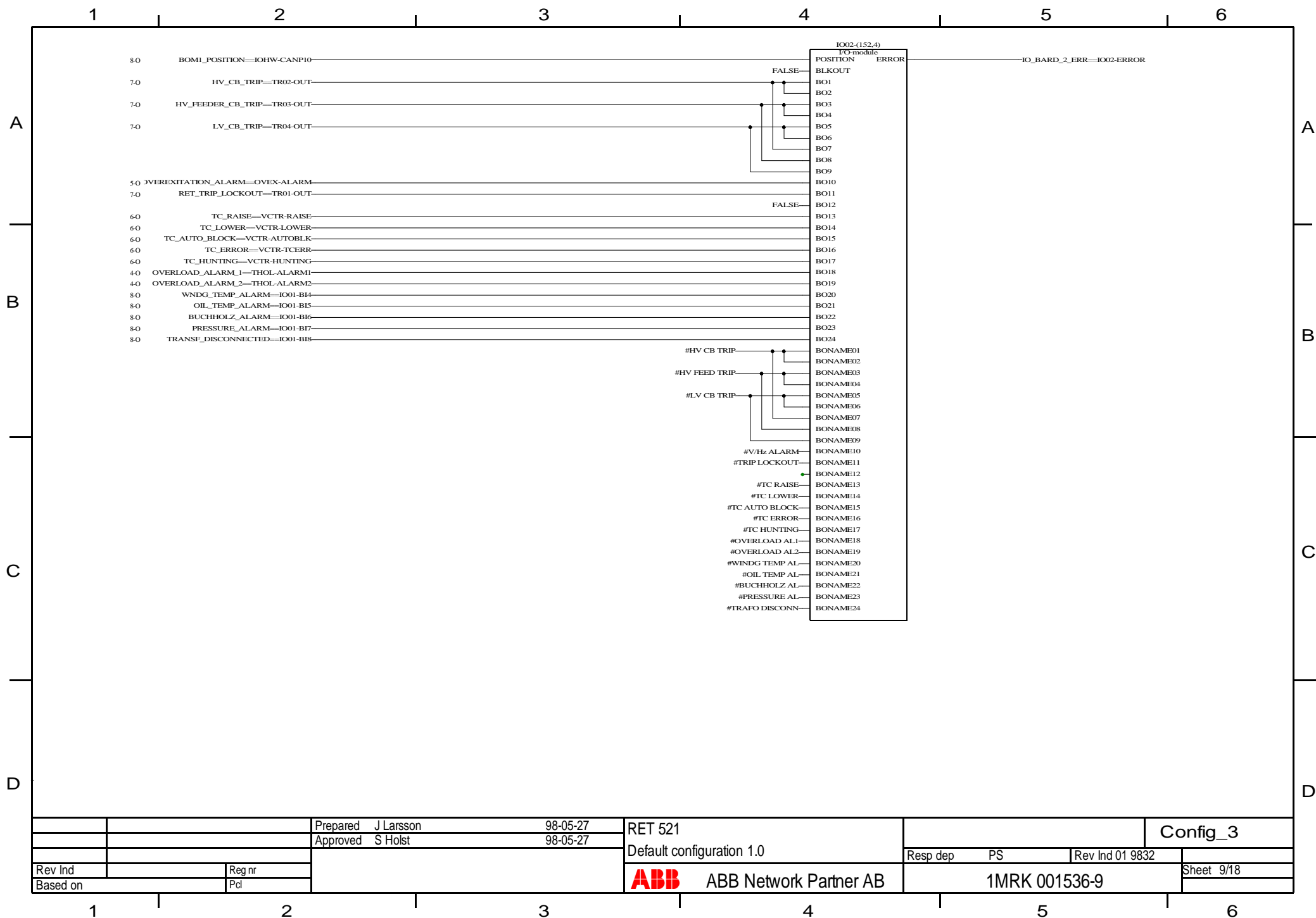


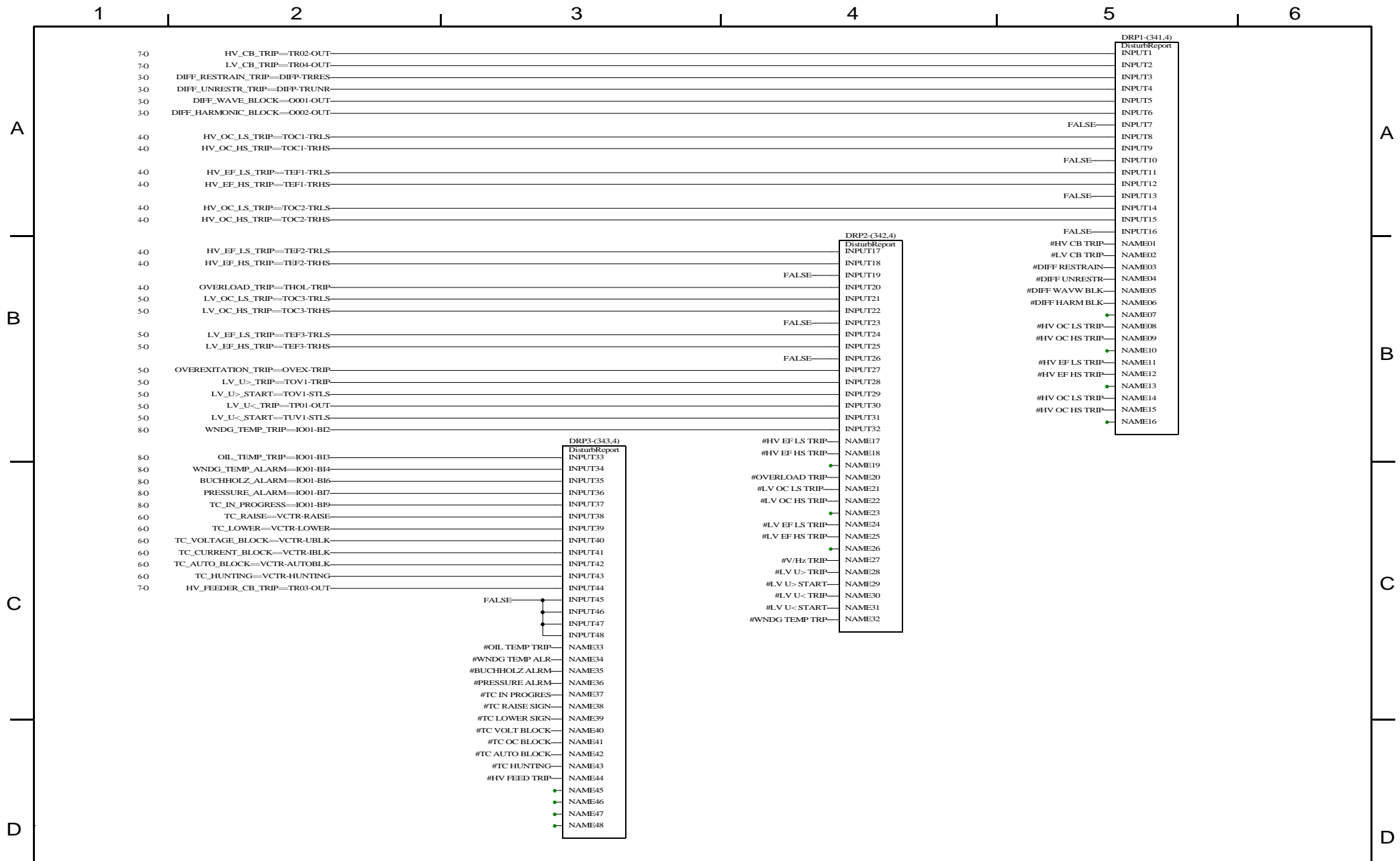
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Prepared J Larsson 98-05-27		RET 521		Config_3	
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Rev Ind	Reg nr	ABB ABB Network Partner AB		1MRK 001536-9	
Based on	Pcl			Sheet 7/18	



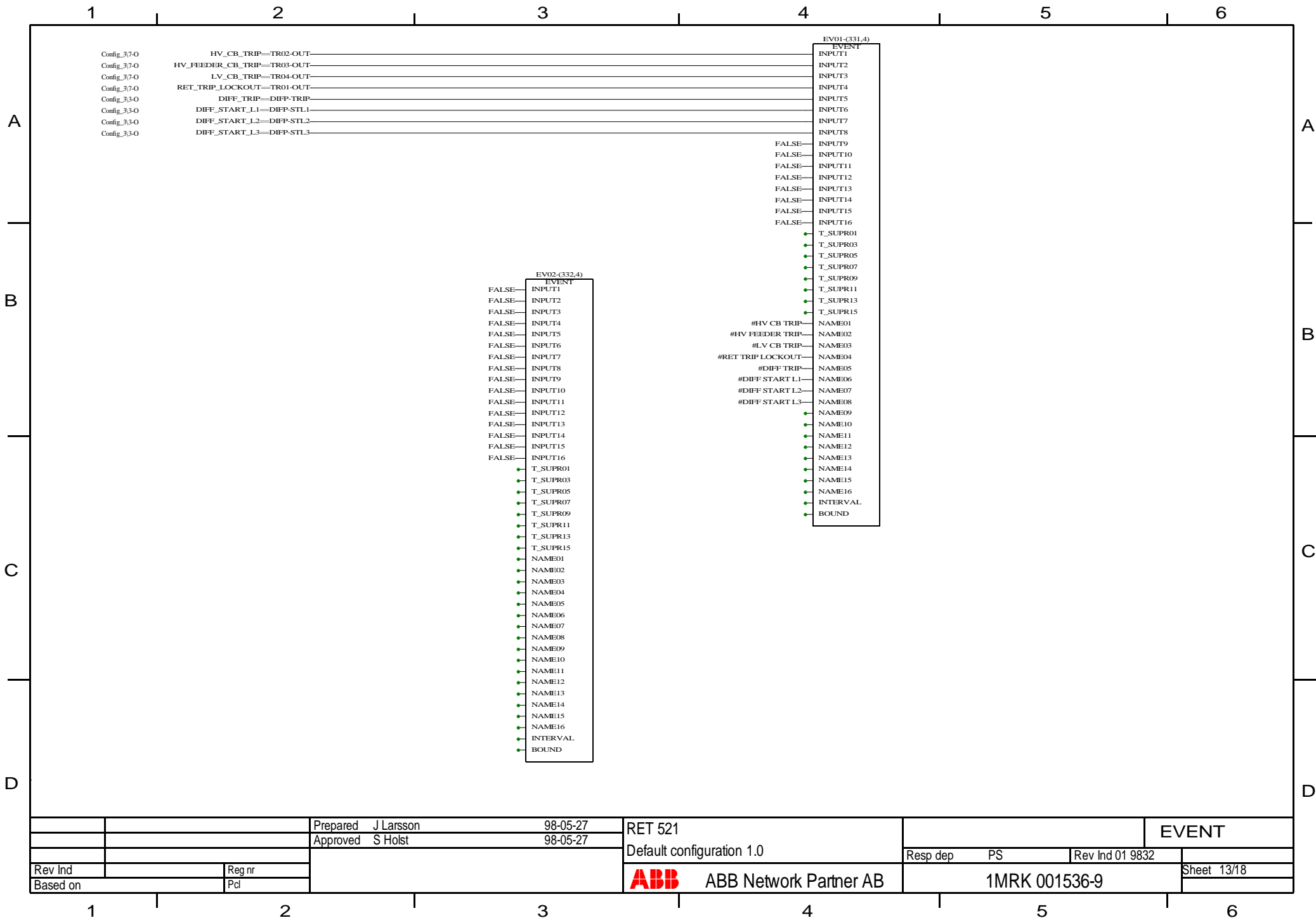




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Rev Ind	Reg nr	ABB ABB Network Partner AB		1MRK 001536-9	
Based on	Pcl			Sheet 10/18	

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D					D
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Rev Ind		Reg nr			Sheet 11/18
Based on		Pcl	ABB ABB Network Partner AB	1MRK 001536-9	
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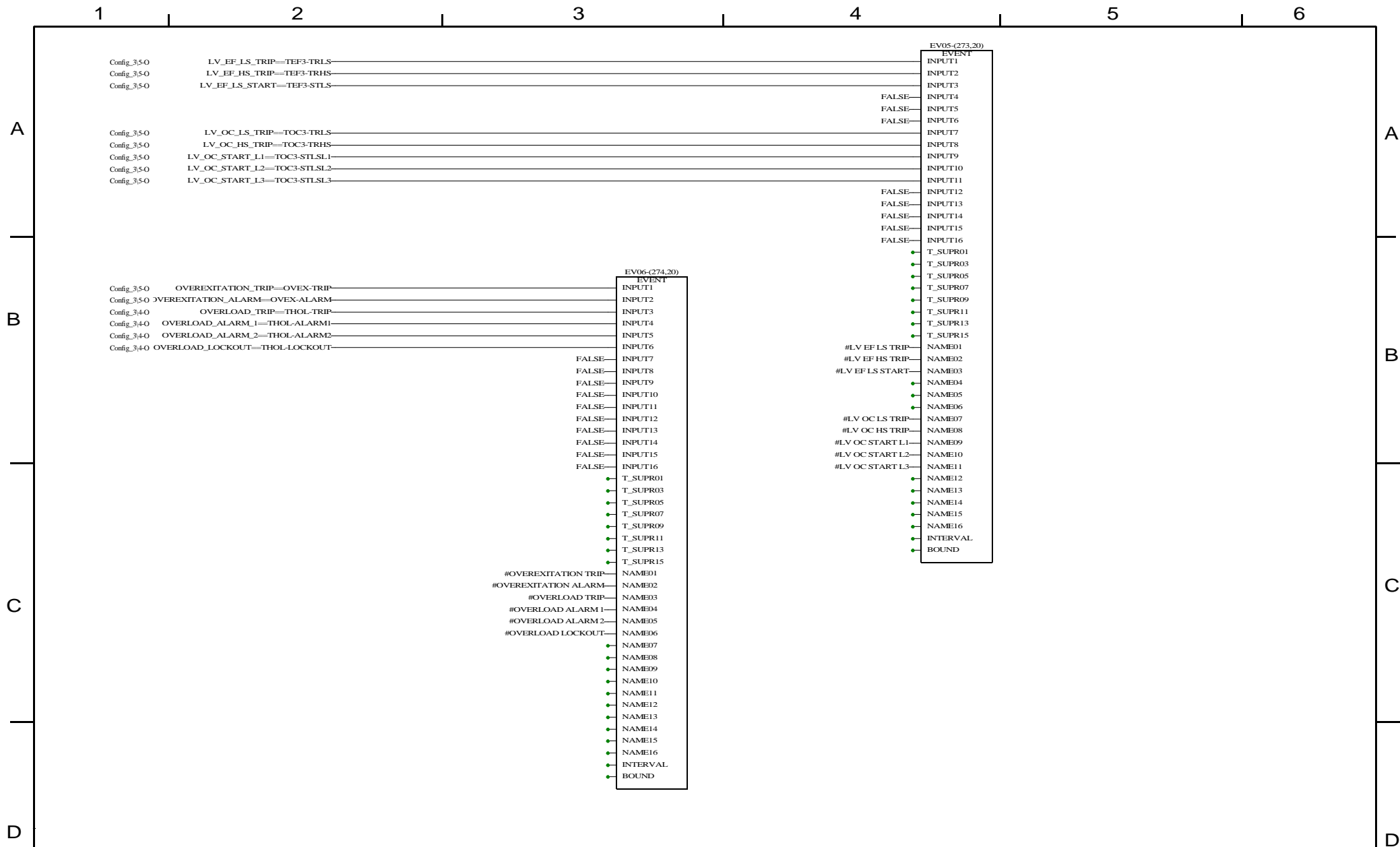
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Based on		Pcl			
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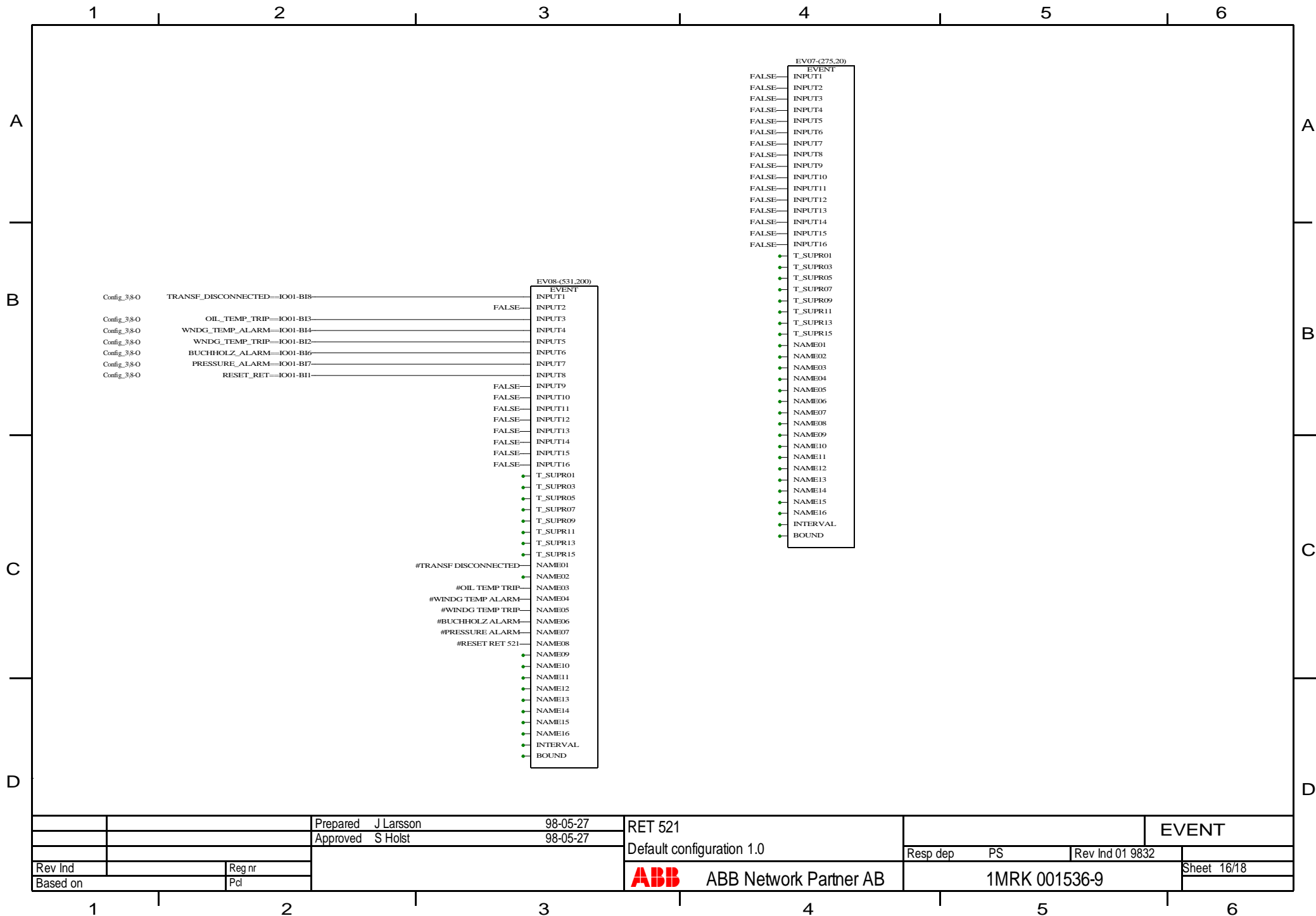
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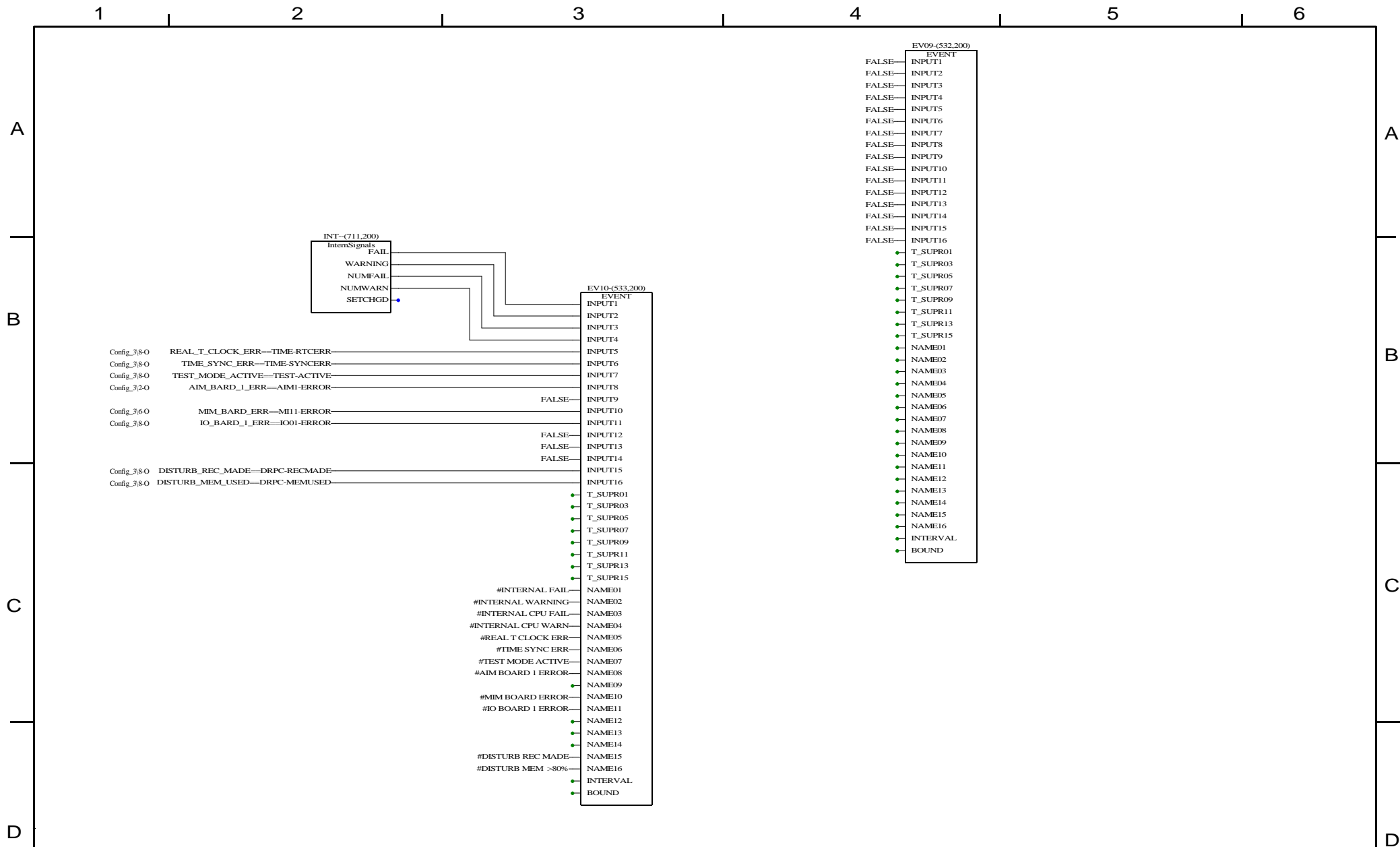


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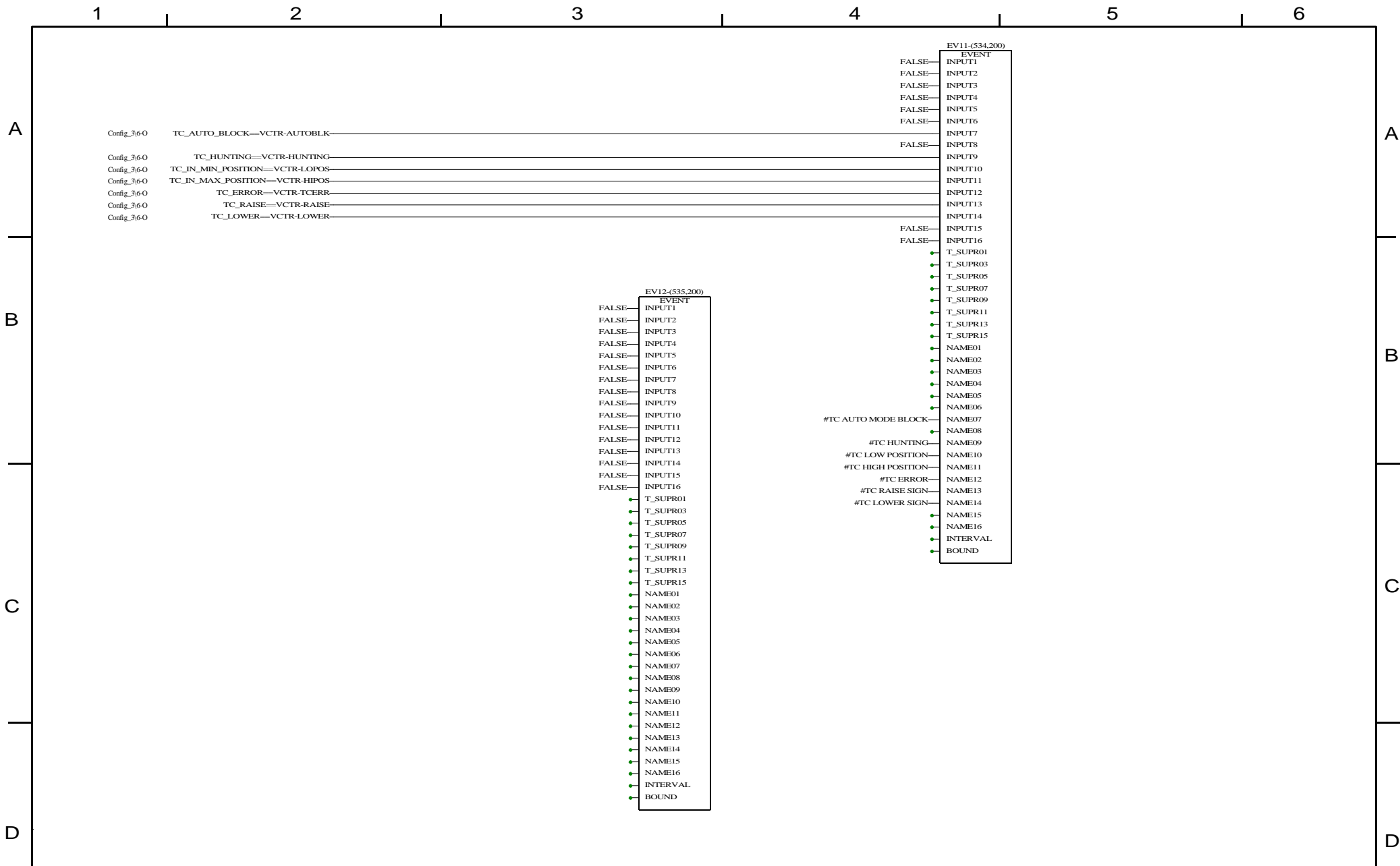


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Based on	Pcl			Sheet 15/18	





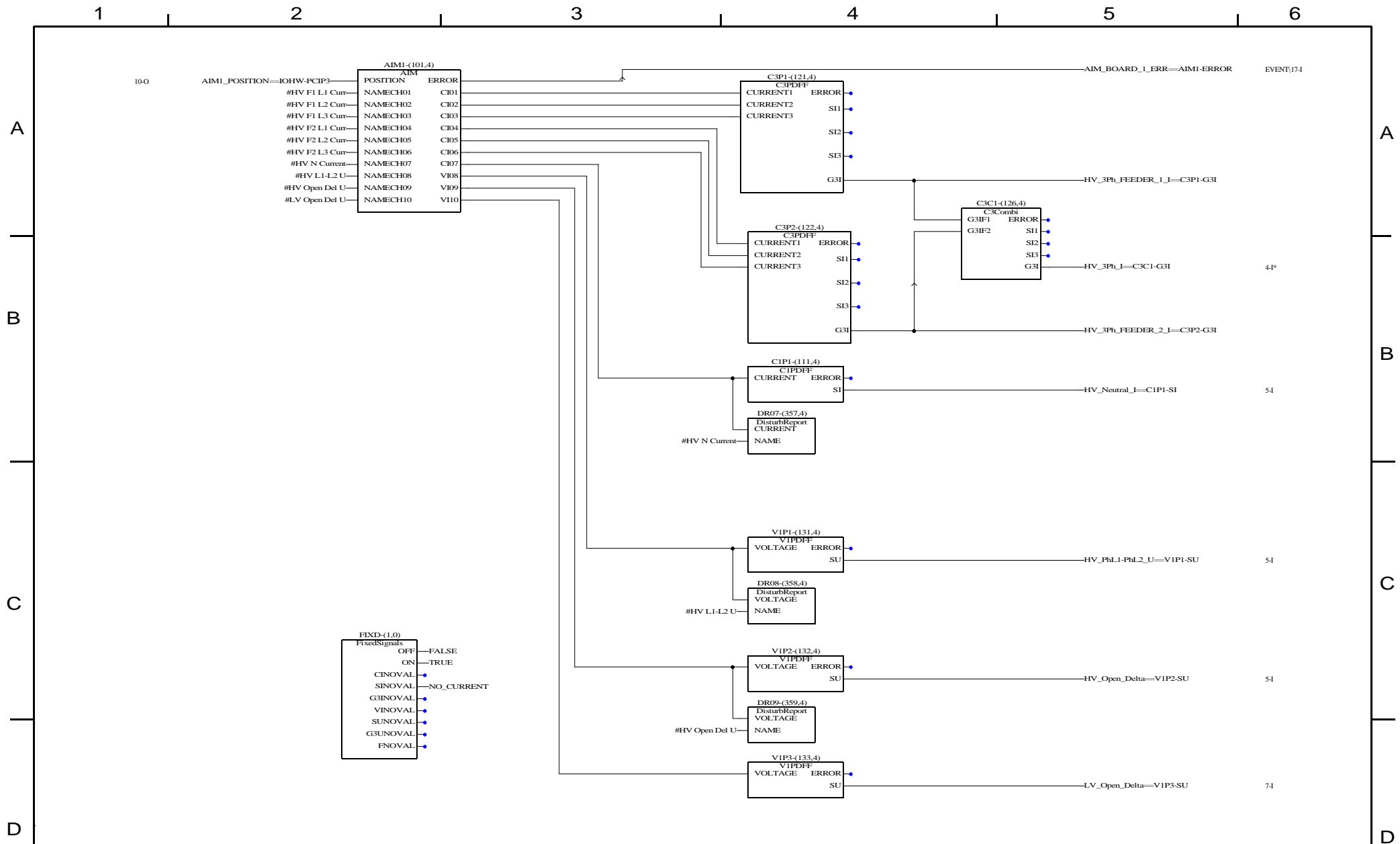
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Rev Ind		Reg nr		ABB ABB Network Partner AB		1MRK 001536-9		Sheet 17/18	
Based on		Pcl							




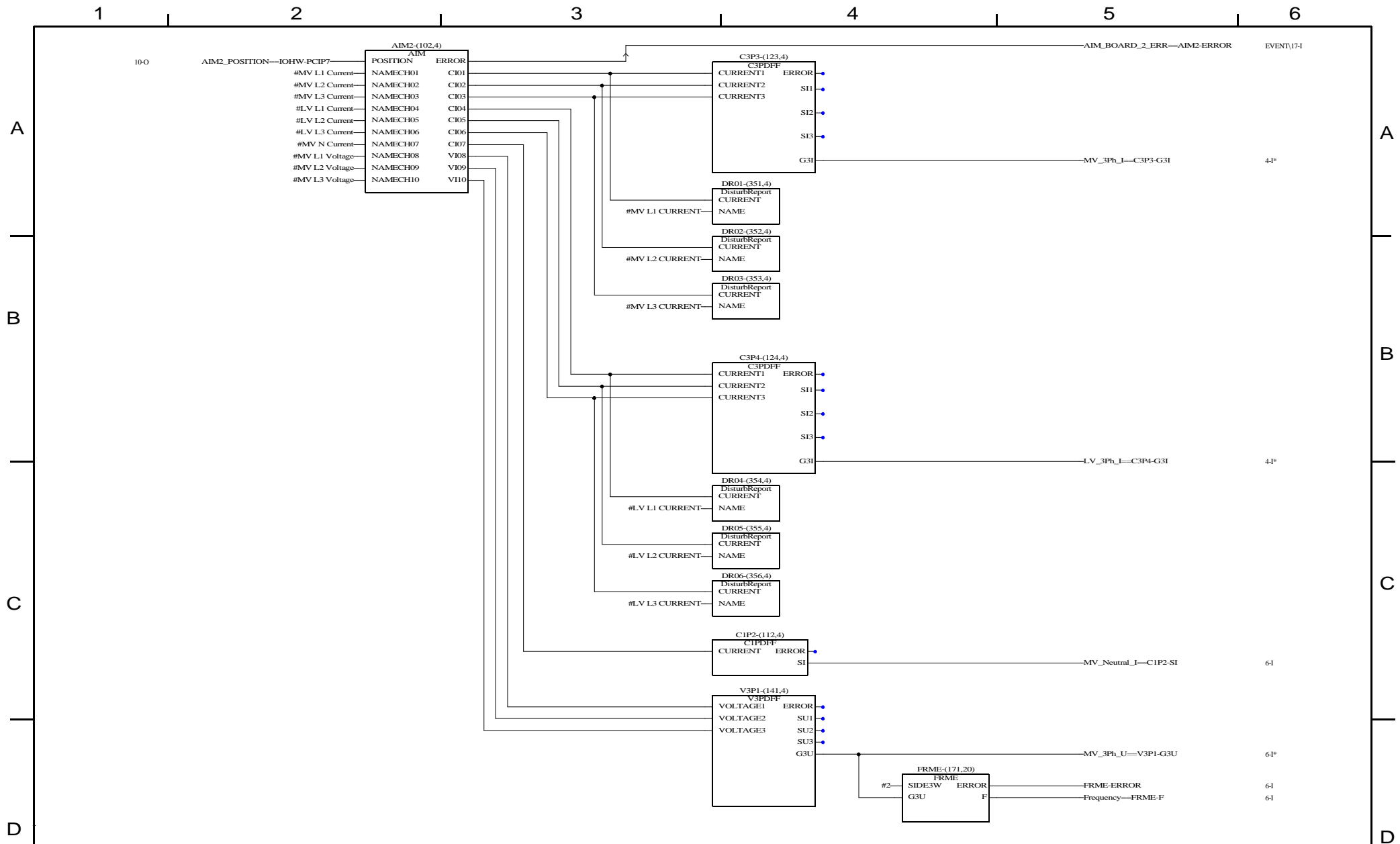
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Rev Ind		Reg nr		ABB ABB Network Partner AB		1MRK 001536-9		Sheet 18/18
Based on		Pcl						

	1	2	3	4	5	6	
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	BIM1_POSITION=IOHW-CANP9	Config_3\8-I	LV_OC_START_L2=TOC3-STLSL2	EVENT\15-I	WNDG_TEMP_ALARM=IO01-B14	Config_3\9-I	
		Config_3\8-O	LV_OC_START_L3=TOC3-STLSL3	EVENT\15-I		Config_3\10-I	
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	BUCHHOLZ_ALARM=IO01-B16	Config_3\9-I	LV_Ph_L1_I=C3P3-S11	Config_3\5-I	WNDG_TEMP_TRIP=IO01-B12	Config_3\8-O	
		Config_3\10-I		Config_3\6-I		Config_3\10-I	
		EVENT\16-I	LV_Ph_L2_I=C3P3-S12	Config_3\5-I		EVENT\16-I	
	DIFF_HARMONIC_BLOCK=O002-OUT	Config_3\10-I		Config_3\6-I			
	DIFF_RESTRAIN_TRIP=DIFF-TRRES	Config_3\10-I	LV_U<_START=TUV1-STLS	Config_3\10-I			
B	DIFF_START_L1=DIFF-STL1	EVENT\13-I	LV_U<_TRIP=TP01-OUT	Config_3\7-I			B
	DIFF_START_L2=DIFF-STL2	EVENT\13-I		Config_3\10-I			
	DIFF_START_L3=DIFF-STL3	EVENT\13-I	LV_U>_START=TOV1-STLS	Config_3\10-I			
	DIFF_TRIP=DIFF-TRIP	Config_3\7-I	LV_U>_TRIP=TOV1-TRIP	Config_3\7-I			
		EVENT\13-I		Config_3\10-I			
	DIFF_UNRESTR_TRIP=DIFF-TRUNR	Config_3\10-I	MIM_BARD_ERR=M111-ERROR	EVENT\17-I			
	DIFF_WAVE_BLOCK=O001-OUT	Config_3\10-I	MIM1_POSITION=IOHW-CANP12	Config_3\8-O			
	DISTURB_MEM_USED=DRPC-MEMUSED	EVENT\17-I	OIL_TEMP_ALARM=IO01-B15	Config_3\9-I			
	DISTURB_REC_MADE=DRPC-RECMADE	EVENT\17-I	OIL_TEMP_TRIP=IO01-B13	Config_3\8-O			
	Frequency=FRME-F	Config_3\5-I		Config_3\10-I			
C	FRME-ERROR	Config_3\5-I	OVEREXITATION_ALARM=OVEX-ALARM	EVENT\16-I			C
	HV_3Ph_I=C3C1-G3I	Config_3\3-I	OVEREXITATION_TRIP=OVEX-TRIP	Config_3\9-I			
		Config_3\4-I		EVENT\15-I			
	HV_CB_TRIP=TR02-OUT	Config_3\6-I		Config_3\7-I			
		Config_3\9-I	OVERLOAD_ALARM_1=THOL-ALARM1	Config_3\10-I			
		Config_3\10-I	OVERLOAD_ALARM_2=THOL-ALARM2	EVENT\15-I			
	HV_EF_HS_TRIP=TEF1-TRHS	EVENT\13-I	OVERLOAD_LOCKOUT=THOL-LOCKOUT	Config_3\9-I			
	HV_EF_HS_TRIP=TEF2-TRHS	Config_3\10-I	OVERLOAD_TRIP=THOL-TRIP	EVENT\15-I			
		EVENT\14-I		Config_3\7-I			
	HV_EF_LS_START=TEF2-STLS	EVENT\14-I	PRESSURE_ALARM=IO01-B17	Config_3\10-I			
D	HV_EF_LS_TRIP=TEF1-TRLS	Config_3\10-I	REAL_T_CLOCK_ERR=TIME-RTCERR	EVENT\15-I			D
	HV_EF_LS_TRIP=TEF2-TRLS	Config_3\10-I	RESET_RET=IO01-B11	Config_3\9-I			
		EVENT\14-I	RET_TRIP_LOCKOUT=TR01-OUT	Config_3\10-I			
	HV_EF_TRIP=TEF1-TRIP	Config_3\10-I	TC_AUTO_BLOCK=VCTR-AUTOBLK	EVENT\16-I			
	HV_EF_TRIP=TEF2-TRIP	Config_3\10-I	TC_CURRENT_BLOCK=VCTR-IBLK	Config_3\9-I			
	HV_FEEDER_CB_TRIP=TR03-OUT	EVENT\14-I	TC_ERROR=M111-INPUTERR	EVENT\13-I			
		EVENT\14-I	TC_ERROR=VCTR-TCERR	Config_3\9-I			
	HV_OC_HS_TRIP=TOC1-TRHS	Config_3\10-I	TC_HUNTING=VCTR-HUNTING	EVENT\18-I			
	HV_OC_HS_TRIP=TOC2-TRHS	Config_3\10-I	TC_IN_MAX_POSITION=VCTR-HIPOS	Config_3\10-I			
	HV_OC_LS_TRIP=TOC1-TRLS	EVENT\14-I	TC_IN_MIN_POSITION=VCTR-LOPOS	EVENT\18-I			
	HV_OC_LS_TRIP=TOC2-TRLS	Config_3\10-I	TC_IN_PROGRESS=IO01-B19	Config_3\8-O			
		EVENT\14-I	TC_LOWER=VCTR-LOWER	Config_3\10-I			
	HV_OC_START_L1=TOC2-STL1	EVENT\14-I	TC_POSITION=M111-OLTCVAL	Config_3\9-I			
	HV_OC_START_L2=TOC2-STL2	EVENT\14-I	TC_RAISE=VCTR-RAISE	EVENT\18-I			
	HV_OC_START_L3=TOC2-STL3	EVENT\14-I	TC_VOLTAGE_BLOCK=VCTR-UBLK	Config_3\6-O			
	HV_OC_TRIP=TOC1-TRIP	Config_3\7-I	TEST_MODE_ACTIVE=TEST-ACTIVE	Config_3\9-I			
	HV_OC_TRIP=TOC2-TRIP	Config_3\7-I	TIME_SYNC_ERR=TIME-SYNCERR	Config_3\10-I			
	HVa_3Ph_I=C3P1-G3I	Config_3\4-I	TRANSF_DISCONNECTED=IO01-B18	EVENT\18-I			
	IO_BARD_1_ERR=IO01-ERROR	EVENT\17-I		Config_3\10-I			
	LV_3Ph_I=C3P3-G3I	Config_3\3-I		EVENT\18-I			
		Config_3\5-I		EVENT\18-I			
	LV_CB_TRIP=TR04-OUT	Config_3\9-I		Config_3\8-O			
		Config_3\10-I		Config_3\10-I			
		EVENT\13-I		Config_3\9-I			
	LV_EF_HS_TRIP=TEF3-TRHS	Config_3\10-I		Config_3\10-I			
		EVENT\15-I		EVENT\18-I			
	LV_EF_LS_START=TEF3-STLS	EVENT\15-I		Config_3\6-O			
	LV_EF_LS_TRIP=TEF3-TRLS	Config_3\10-I		Config_3\9-I			
		EVENT\15-I		Config_3\10-I			
	LV_EF_TRIP=TEF3-TRIP	Config_3\7-I		EVENT\18-I			
	LV_EF_TRIP_TIME=TM04-ON	Config_3\7-I		Config_3\10-I			
	LV_L1-L2_U=V1P1-SU	Config_3\5-I		Config_3\10-I			
		Config_3\6-I		EVENT\17-I			
	LV_OC_HS_TRIP=TOC3-TRHS	Config_3\10-I		EVENT\17-I			
		EVENT\15-I		Config_3\6-I			
	LV_OC_LS_TRIP=TOC3-TRLS	Config_3\10-I		Config_3\8-O			
		Prepared J Larsson 98-05-27	RET 521		EVENT		
		Approved S Holst 98-05-27	Default configuration 1.0				
Rev Ind	Reg nr			Resp dep PS	Rev Ind 01 9832	Sheet 19a/18	
Based on	Pcl	ABB ABB Network Partner AB		1MRK 001536-9			
1	2	3	4	5	6		

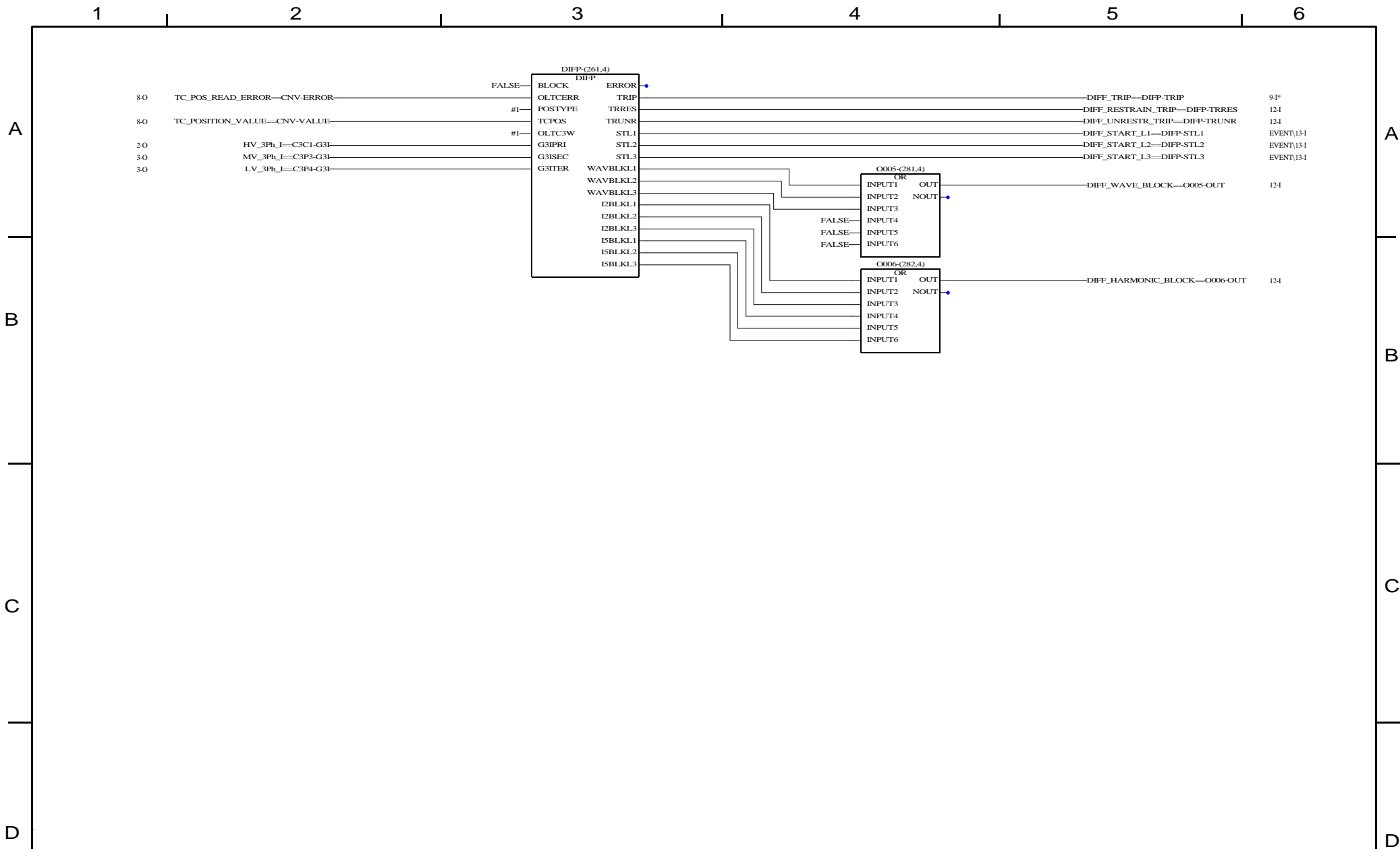
1		2		3		4		5		6			
A		<div><div>Description</div><div>List of Content Configuration of Analogue Quantities (AIM01) & Fixed Variables Configuration of Analogue Quantities (AIM02) Differential Protection Functions HV Protection Functions MV Protection Functions LV Protection Functions Voltage Control Function & Tap Position Reading Tripping Logic Configuration of Binary Inputs & Outputs (BIM1 & BOM2) Configuration of Disturbance Report Configuration of Event Recording</div></div>						<div><div>Work Sheet No</div><div>Sheet No 01 Sheet No 02 Sheet No 03 Sheet No 04 Sheet No 05 Sheet No 06 Sheet No 07 Sheet No 08 Sheet No 09 Sheet No 10 Sheet No 12 Sheet No 13-18</div></div>				A	
B												B	
C												C	
D		<div><div>01980807/LFLayout changes</div><div>RevDate/signComment</div></div>										D	
				Prepared J Larsson98-05-27		RET 521				Config_4			
				Approved S Holst98-05-27		Default configuration 1.0		Resp dep PSRev Ind 01 9832		Sheet 1/18			
Rev Ind		Reg nr				ABB ABB Network Partner AB		1MRK 001536-10					
Based on		Pcl											
1		2		3		4		5		6			



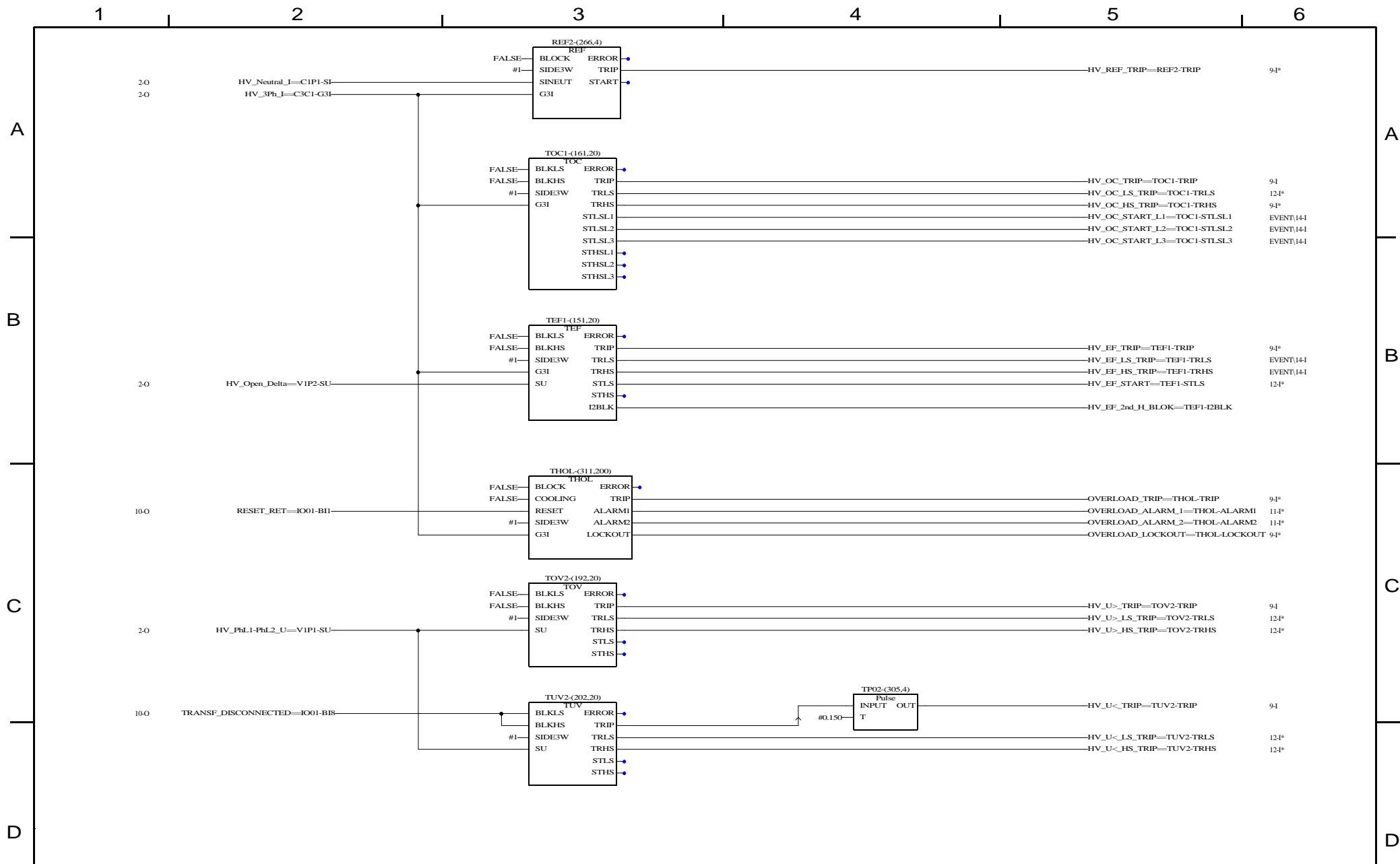
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Approved S Holst 98-05-27		Default configuration 1.0		Resp dep PS Rev Ind 01 9832	
Rev Ind	Reg nr	 ABB Network Partner AB		Sheet 2/18	
Based on	Pcl			1MRK 001536-10	




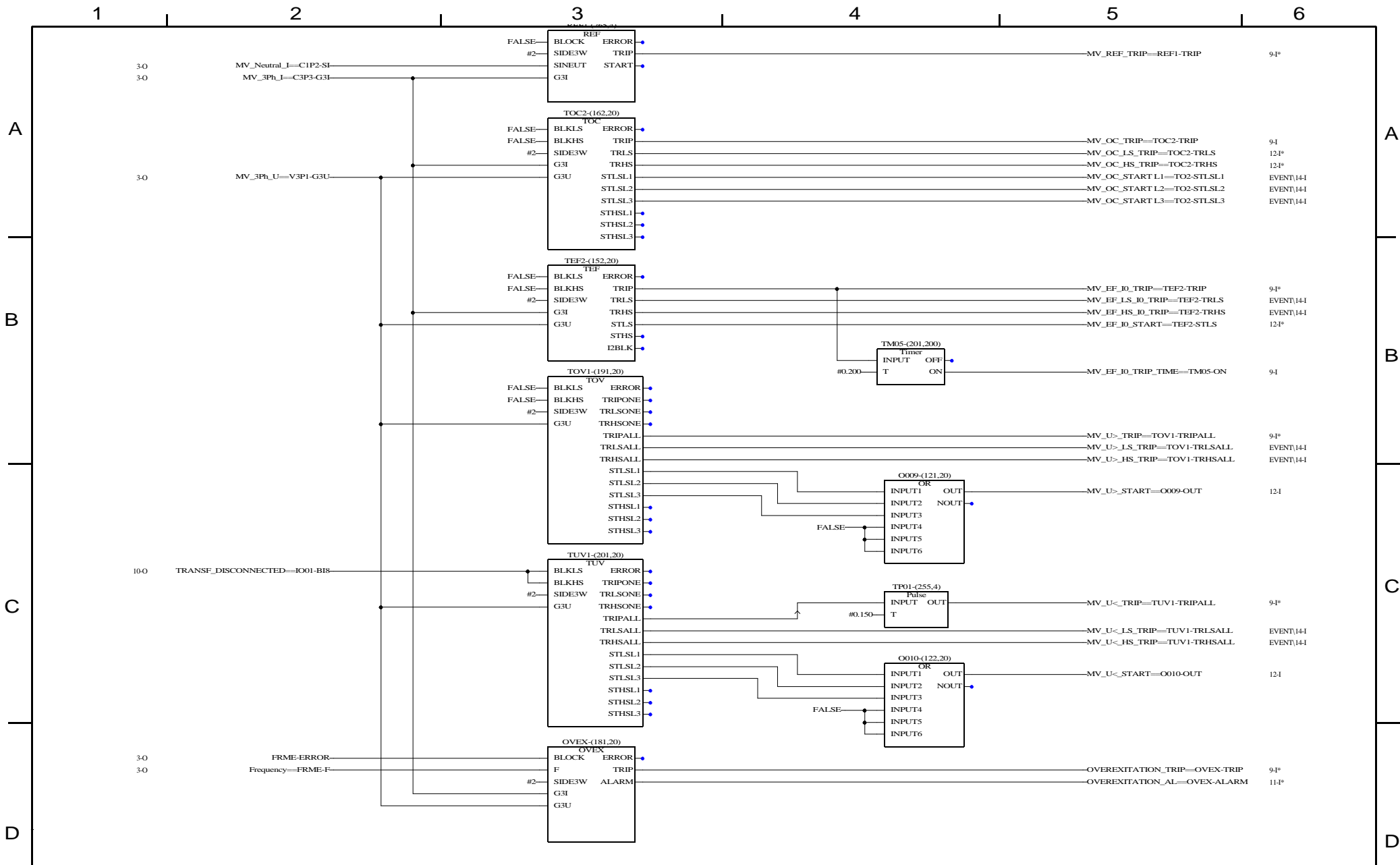
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Approved S Holst 98-05-27		Default configuration 1.0		Resp dep PS Rev Ind 01 9832	
Rev Ind	Reg nr	ABB ABB Network Partner AB		1MRK 001536-10	
Based on	Pcl			Sheet 3/18	



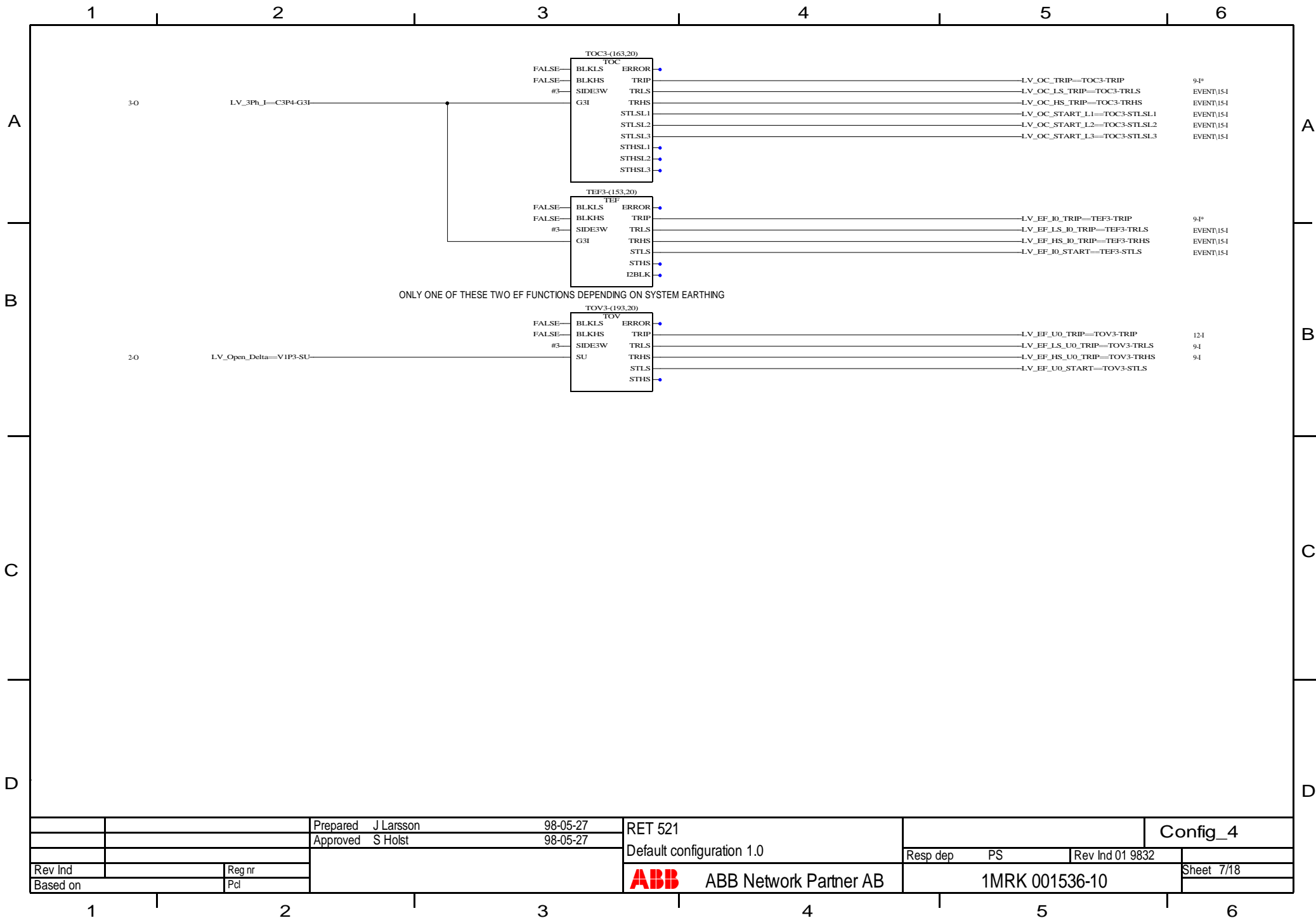
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Rev Ind		Reg nr		ABB ABB Network Partner AB	1MRK 001536-10		Sheet 4/18
Based on		Pcl					



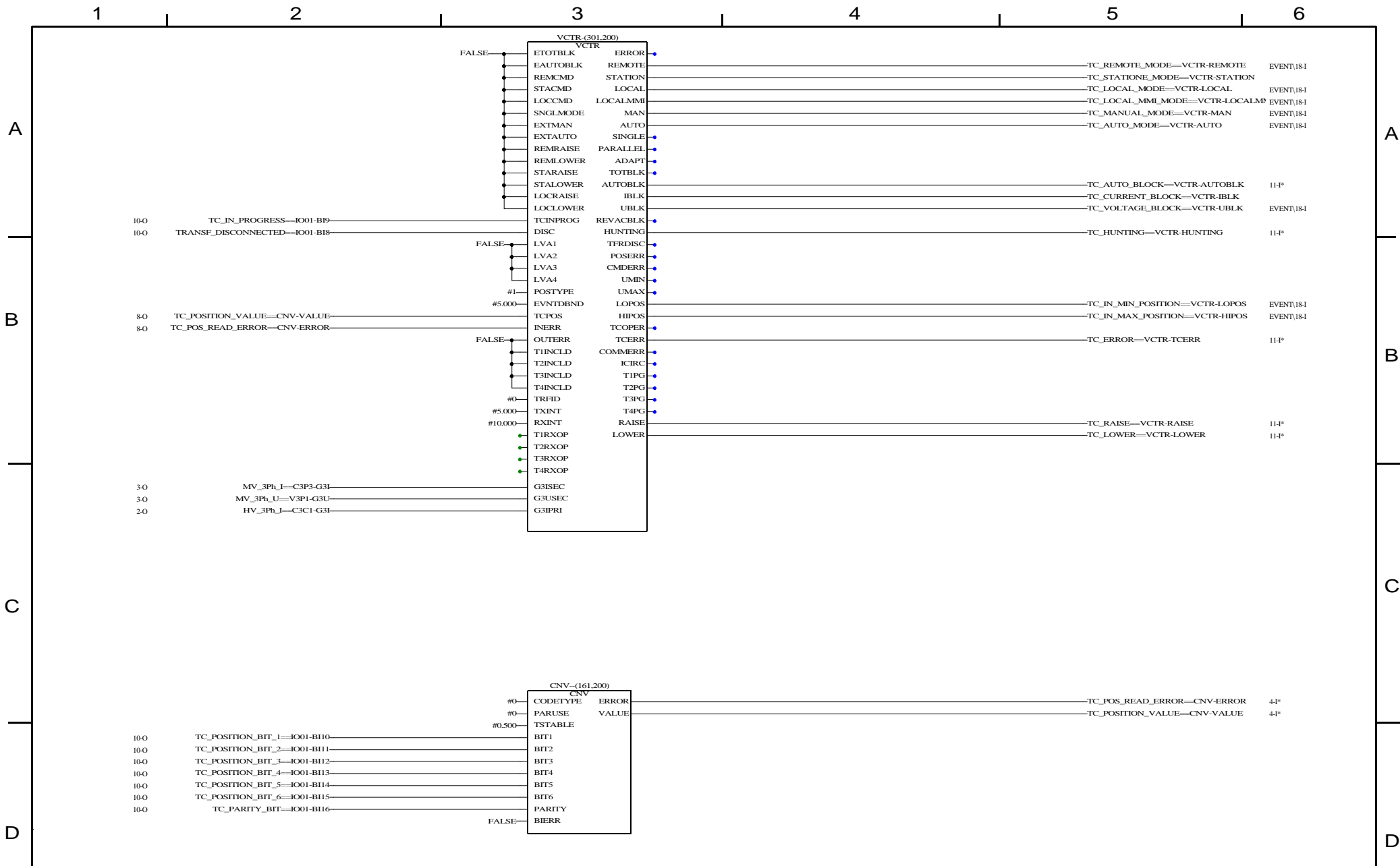
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Rev Ind		Reg nr		 ABB Network Partner AB		1MRK 001536-10		Sheet 5/18	
Based on		Pcl							



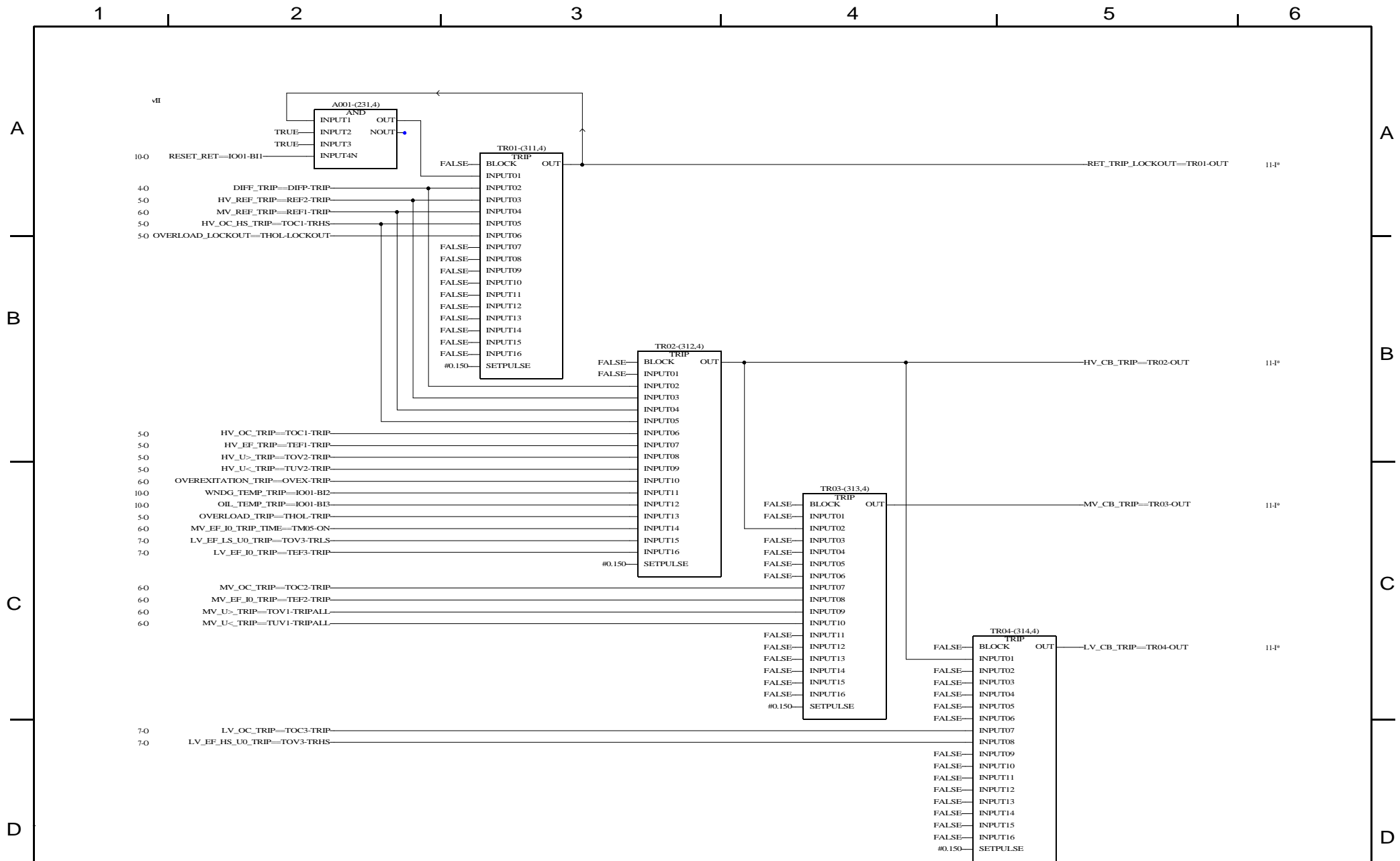
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Rev Ind	Reg nr	ABB ABB Network Partner AB		Sheet 6/18	
Based on	Pcl			1MRK 001536-10	




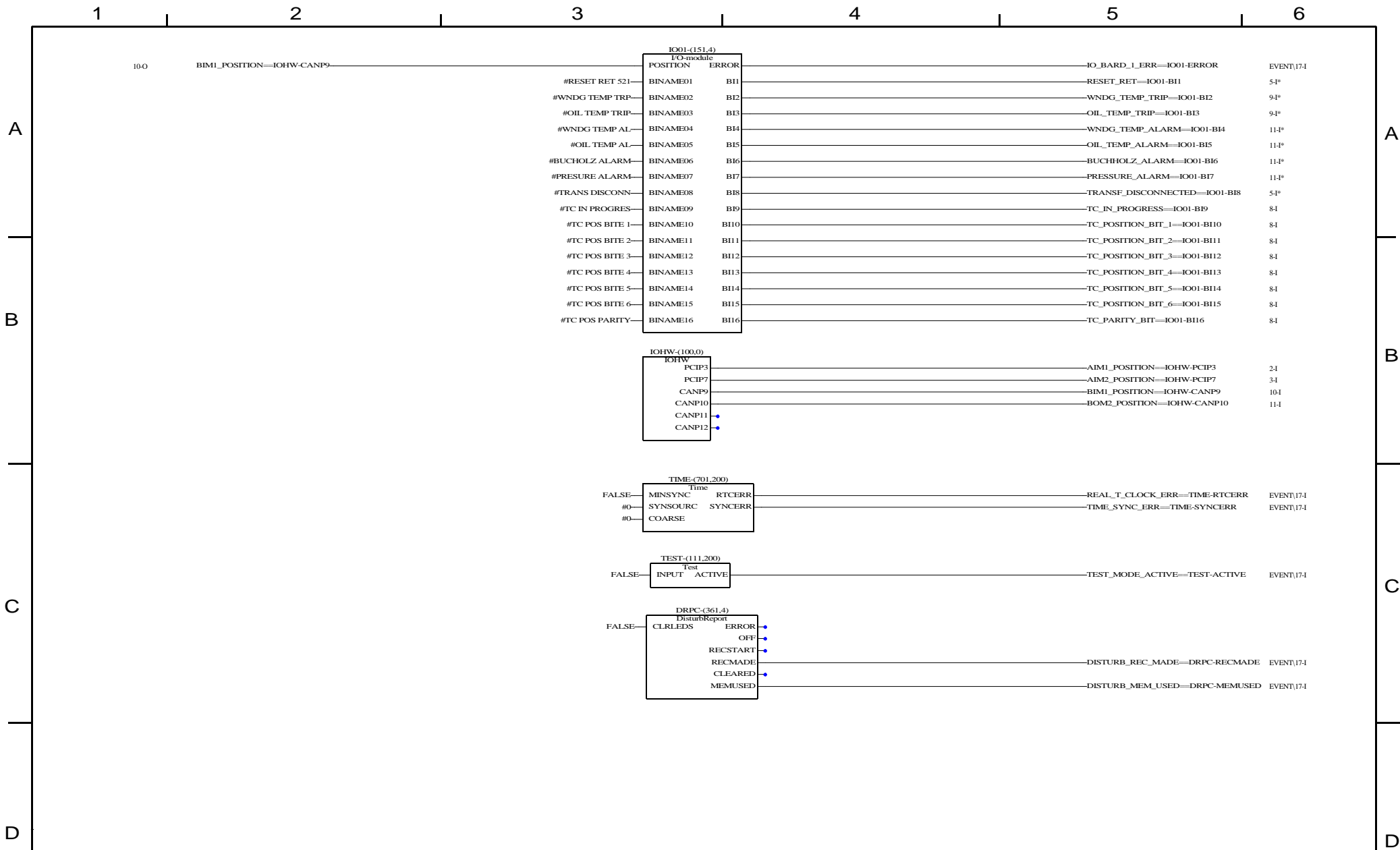
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Rev Ind		Reg nr		ABB	ABB Network Partner AB	Resp dep PS	Rev Ind 01 9832
Based on		Pcl				1MRK 001536-10	Sheet 7/18



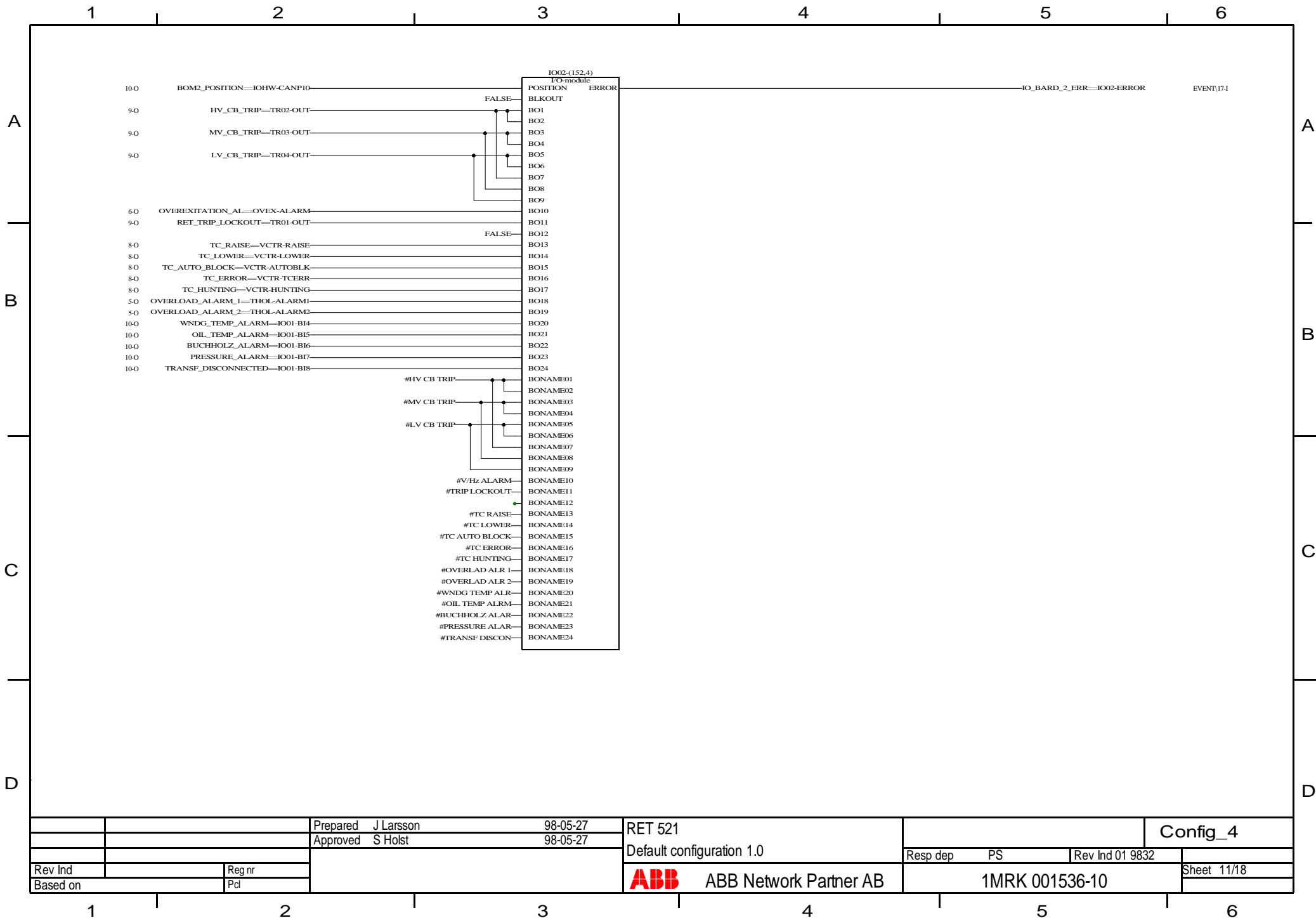
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Approved S Holst 98-05-27		Default configuration 1.0		Resp dep PS Rev Ind 01 9832	
Rev Ind	Reg nr	ABB ABB Network Partner AB		1MRK 001536-10	
Based on	Pcl			Sheet 8/18	



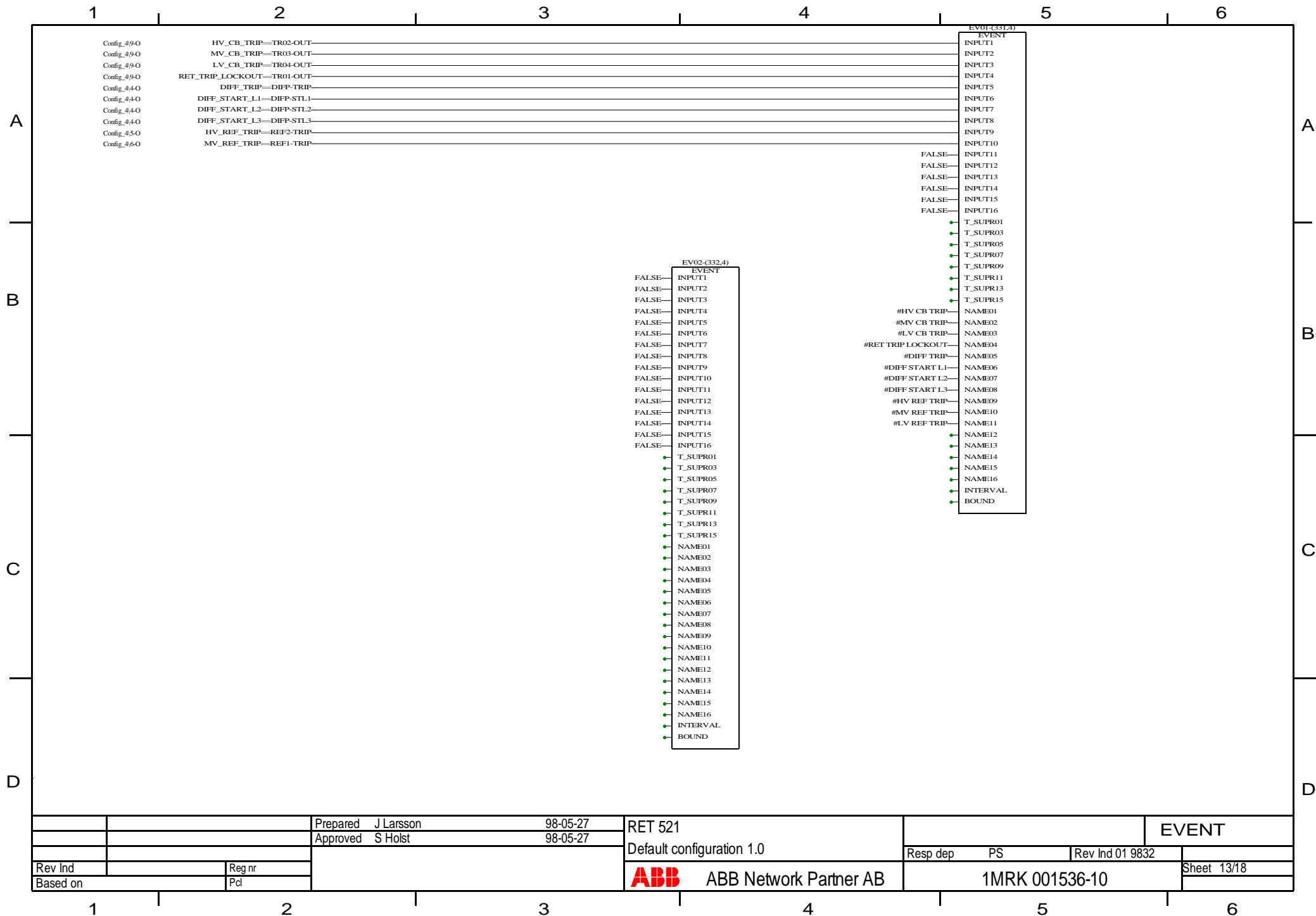
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Rev Ind	Reg nr	 ABB Network Partner AB		1MRK 001536-10	
Based on	Pcl			Sheet 9/18	




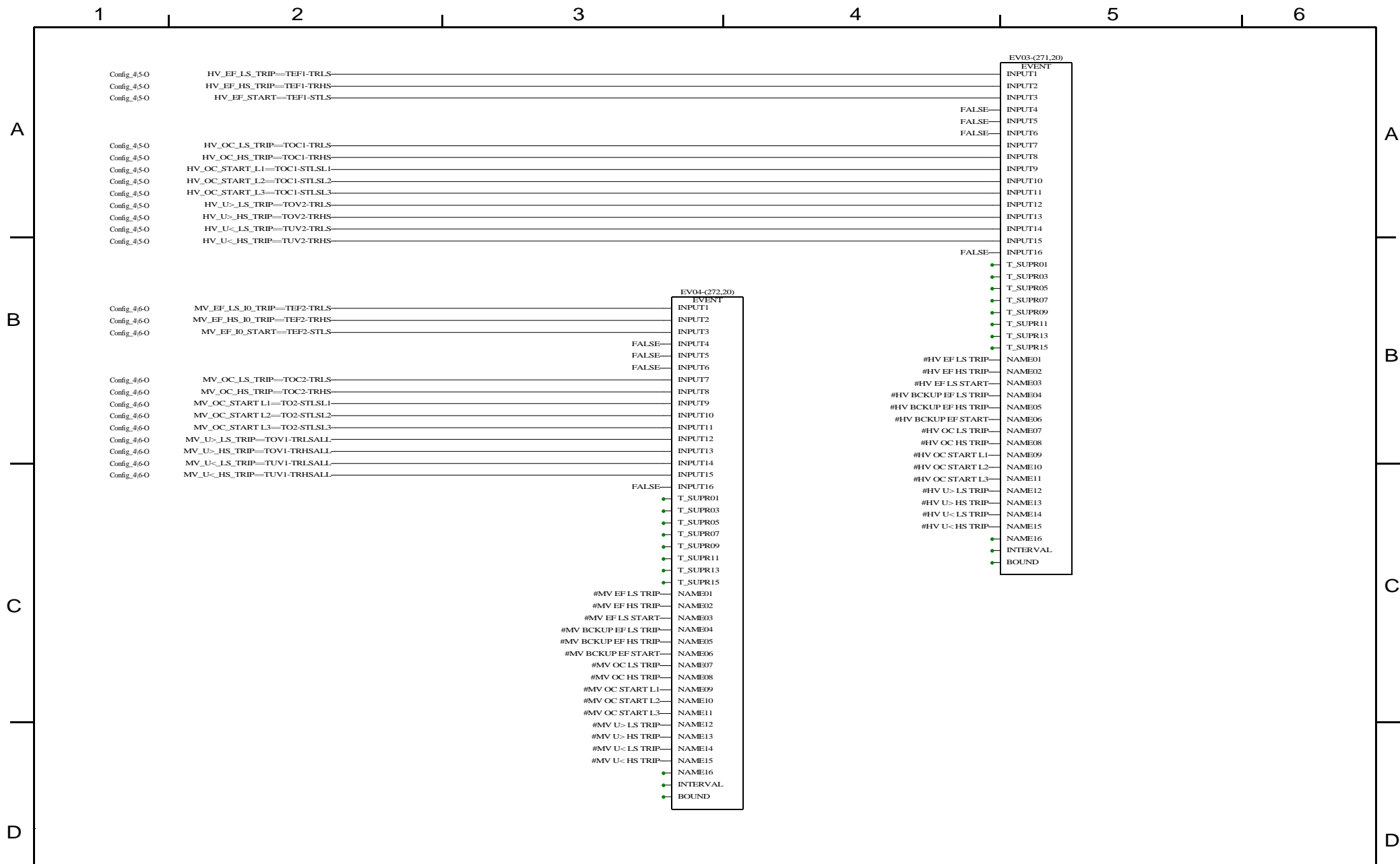
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Rev Ind	Reg nr			Resp dep PS	Rev Ind 01 9832		Sheet 10/18
Based on	Pcl			ABB ABB Network Partner AB	1MRK 001536-10		



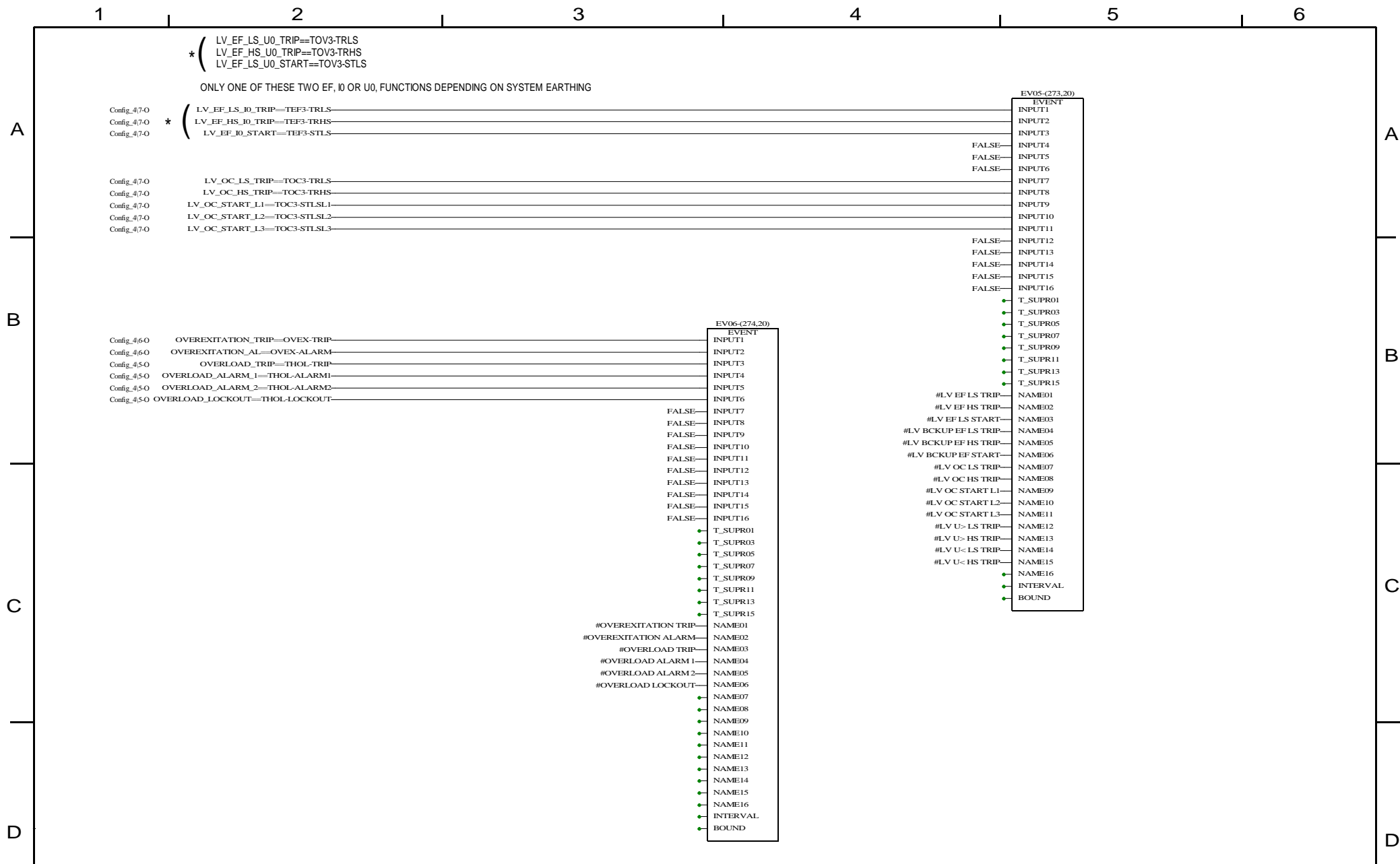
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Rev Ind		Reg nr		ABB ABB Network Partner AB		1MRK 001536-10		Sheet 11/18	
Based on		Pcl							




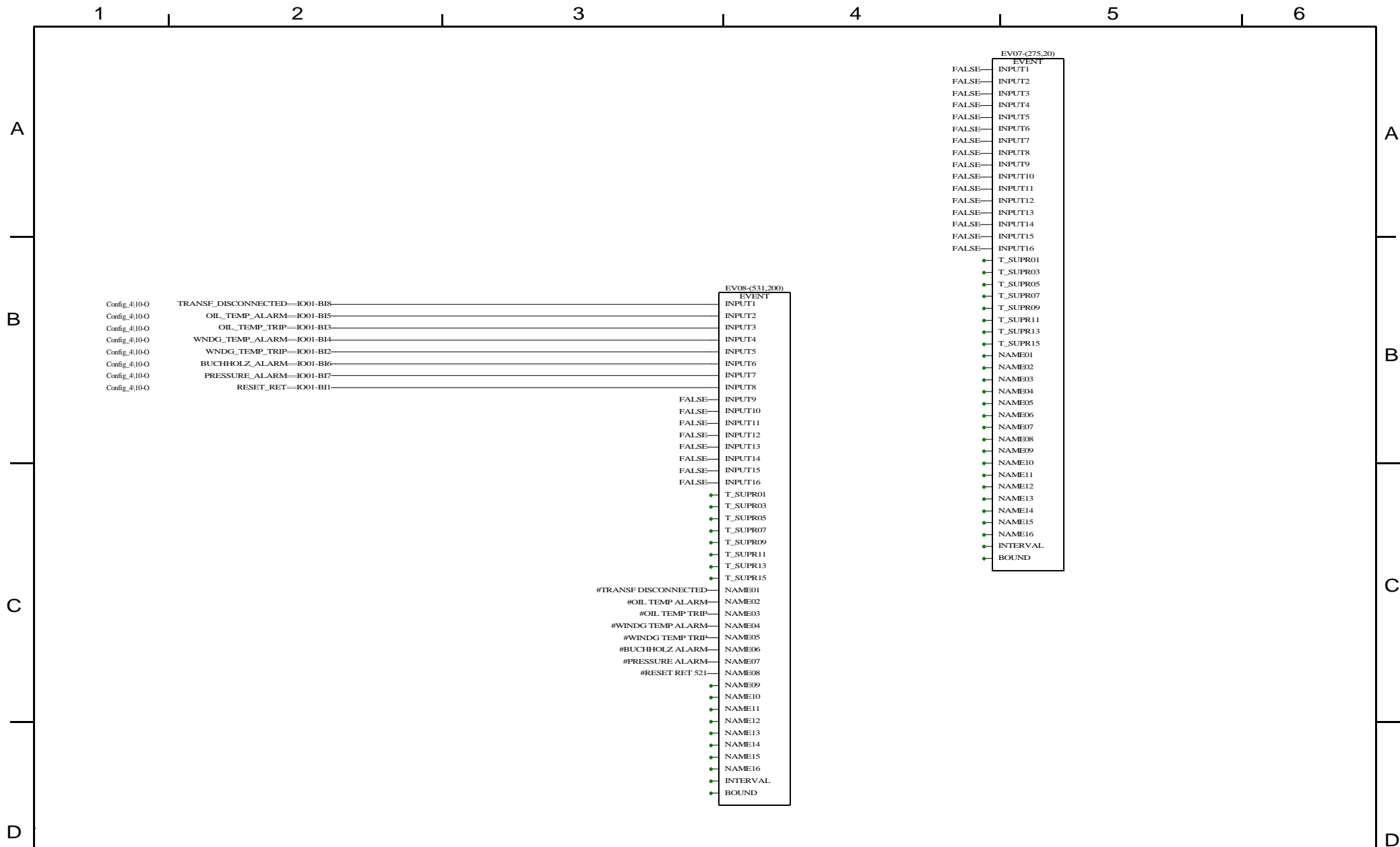
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Rev Ind		Reg nr		 ABB Network Partner AB		1MRK 001536-10		Sheet 13/18
Based on		Pcl						



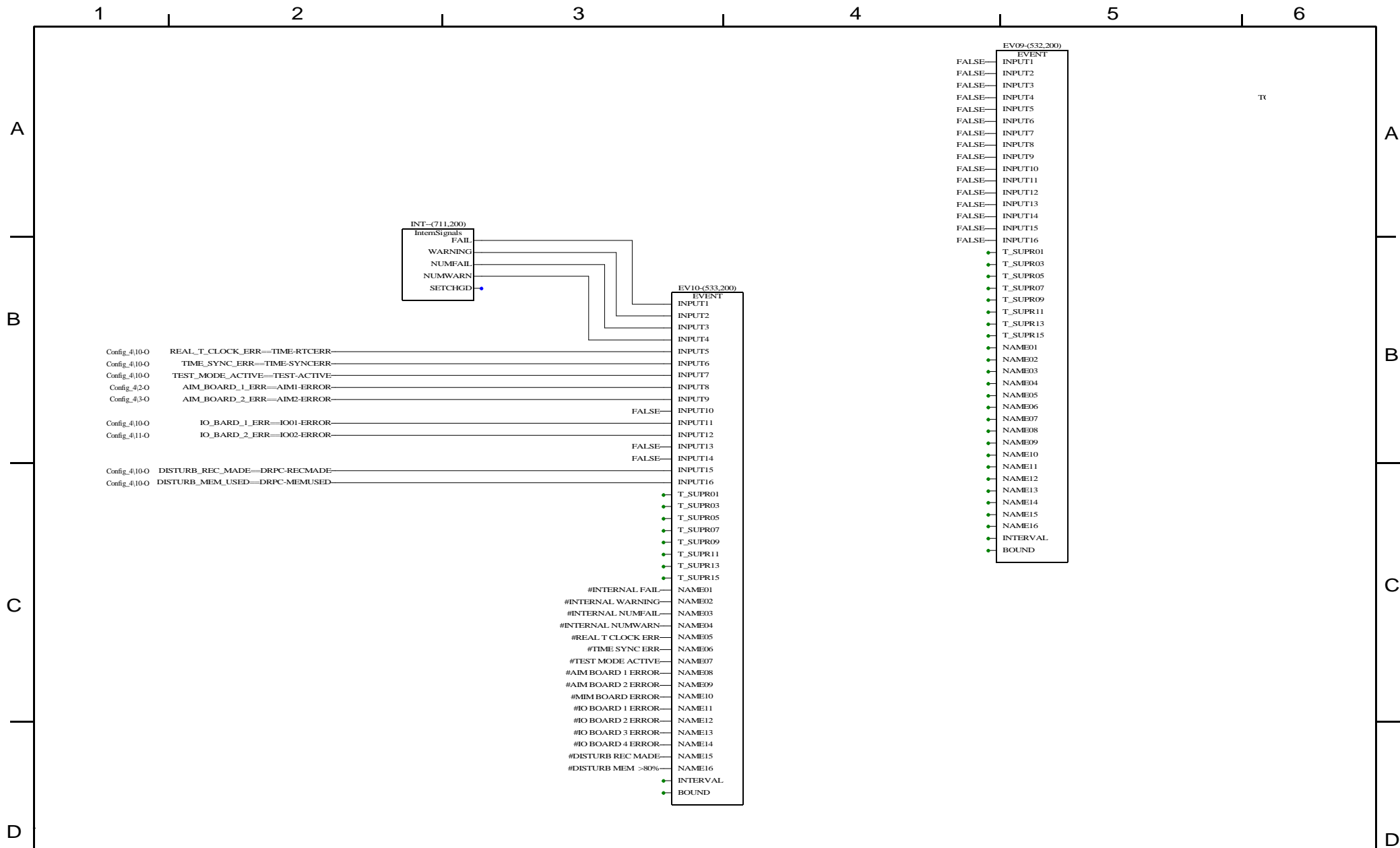
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Rev Ind		Reg nr		ABB ABB Network Partner AB	Resp dep PS	Rev Ind 01 9832		
Based on		Pcl			1MRK 001536-10		Sheet 14/18	



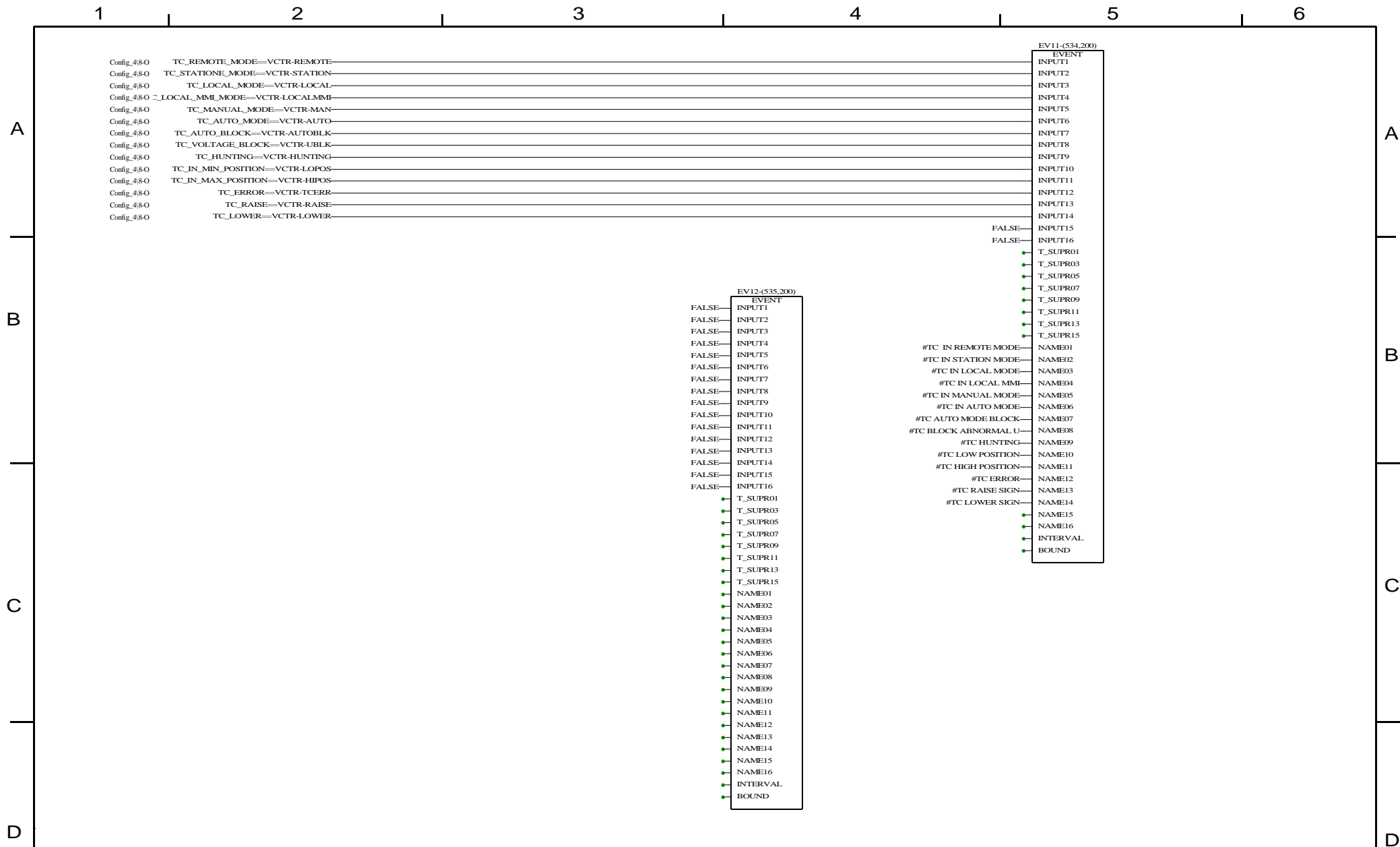
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Rev Ind		Reg nr		 ABB Network Partner AB		1MRK 001536-10		Sheet 15/18
Based on		Pcl						



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Rev Ind		Reg nr		ABB ABB Network Partner AB		1MRK 001536-10		Sheet 16/18	
Based on		Pcl							



		Prepared J Larsson	98-05-27	RET 521				EVENT	
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Rev Ind		Reg nr		ABB ABB Network Partner AB		1MRK 001536-10		Sheet 17/18	
Based on		Pcl							



Prepared J Larsson 98-05-27		RET 521		EVENT	
Approved S Holst 98-05-27		Default configuration 1.0		Resp dep PS Rev Ind 01 9832	
Rev Ind	Reg nr	ABB ABB Network Partner AB		1MRK 001536-10	
Based on	Pcl			Sheet 18/18	

	1	2	3	4	5	6
A	AIM_BOARD_1_ERR==AIM1-ERROR AIM_BOARD_2_ERR==AIM2-ERROR AIM1_POSITION==IOHW-PCIP3 AIM2_POSITION==IOHW-PCIP7 BIM1_POSITION==IOHW-CANP9 BOM2_POSITION==IOHW-CANP10 BUCHHOLZ_ALARM==IO01-BI6 DIFF_HARMONIC_BLOCK==O006-OUT DIFF_RESTRAIN_TRIP==DIFF-TRRES DIFF_START_L1==DIFF-STL1 DIFF_START_L2==DIFF-STL2 DIFF_START_L3==DIFF-STL3 DIFF_TRIP==DIFF-TRIP DIFF_UNRESTR_TRIP==DIFF-TRUNR DIFF_WAVE_BLOCK==O005-OUT DISTURB_MEM_USED==DRPC-MEMUSED DISTURB_REC_MADE==DRPC-RECMADE Frequency==FRME-F FRME-ERROR HV_3Ph_I=C3C1-G3I HV_CB_TRIP==TR02-OUT HV_EF_HS_TRIP==TEF1-TRHS HV_EF_LS_TRIP==TEF1-TRLs HV_EF_START==TEF1-STLS HV_EF_TRIP==TEF1-TRIP HV_Neutral_I=C1P1-SI HV_OC_HS_TRIP==TOC1-TRHS HV_OC_LS_TRIP==TOC1-TRLs HV_OC_START_L1==TOC1-STLSL1 HV_OC_START_L2==TOC1-STLSL2 HV_OC_START_L3==TOC1-STLSL3 HV_OC_TRIP==TOC1-TRIP HV_Open_Delta==V1P2-SU HV_PhI1-PhI2_U==V1P1-SU HV_REF_TRIP==REF2-TRIP HV_U<_HS_TRIP==TUV2-TRHS HV_U<_LS_TRIP==TUV2-TRLs HV_U<_TRIP==TUV2-TRIP HV_U>_HS_TRIP==TOV2-TRHS HV_U>_LS_TRIP==TOV2-TRLs HV_U>_TRIP==TOV2-TRIP IO_BARD_1_ERR==IO01-ERROR IO_BARD_2_ERR==IO02-ERROR LV_3Ph_I=C3P4-G3I LV_CB_TRIP==TR04-OUT LV_EF_HS_I0_TRIP==TEF3-TRHS LV_EF_HS_U0_TRIP==TOV3-TRLs LV_EF_I0_START==TEF3-STLS LV_EF_I0_J==TEF3-TRIP	EVENT\17-I EVENT\17-I Config_4\10-O Config_4\10-O Config_4\10-I Config_4\10-O Config_4\11-I Config_4\11-I EVENT\16-I Config_4\12-I Config_4\12-I EVENT\13-I EVENT\13-I EVENT\13-I Event\13-I Config_4\9-I EVENT\13-I Config_4\12-I Config_4\12-I EVENT\17-I EVENT\17-I Config_4\6-I Config_4\6-I Config_4\4-I Config_4\5-I Config_4\8-I Config_4\11-I Config_4\12-I EVENT\13-I EVENT\14-I EVENT\14-I Config_4\12-I EVENT\14-I Config_4\9-I Config_4\12-I Config_4\9-I EVENT\14-I Config_4\6-I Config_4\12-I EVENT\14-I Config_4\12-I EVENT\14-I EVENT\14-I EVENT\14-I EVENT\14-I Config_4\9-I Config_4\9-I Config_4\12-I EVENT\13-I EVENT\14-I EVENT\14-I EVENT\14-I Config_4\9-I Config_4\5-I Config_4\5-I Config_4\9-I Config_4\12-I EVENT\13-I Config_4\12-I EVENT\14-I Config_4\12-I EVENT\14-I Config_4\9-I Config_4\12-I EVENT\14-I Config_4\9-I EVENT\17-I EVENT\17-I Config_4\4-I Config_4\7-I Config_4\11-I Config_4\12-I EVENT\13-I EVENT\15-I Config_4\9-I Config_4\9-I EVENT\15-I	(LV_EF_I0_TRIP==TEF3-TRIP) LV_EF_LS_I0_TRIP==TEF3-TRLs LV_EF_LS_U0_TRIP==TOV3-TRLs LV_EF_U0_TRIP==TOV3-TRIP LV_OC_HS_TRIP==TOC3-TRHS LV_OC_LS_TRIP==TOC3-TRLs LV_OC_START_L1==TOC3-STLSL1 LV_OC_START_L2==TOC3-STLSL2 LV_OC_START_L3==TOC3-STLSL3 LV_OC_TRIP==TOC3-TRIP LV_Open_Delta==VIP3-SU MV_3Ph_I=C3P3-G3I MV_3Ph_U==V3P1-G3U MV_CB_TRIP==TR03-OUT MV_EF_HS_I0_TRIP==TEF2-TRHS MV_EF_I0_START==TEF2-STLS MV_EF_I0_TRIP==TEF2-TRIP MV_EF_I0_TRIP_TIME==TM05-ON MV_EF_LS_I0_TRIP==TEF2-TRLs MV_Neutral_I=C1P2-SI MV_OC_HS_TRIP==TOC2-TRHS MV_OC_LS_TRIP==TOC2-TRLs MV_OC_START_L1==TO2-STLSL1 MV_OC_START_L2==TO2-STLSL2 MV_OC_START_L3==TO2-STLSL3 MV_OC_TRIP==TOC2-TRIP MV_REF_TRIP==REF1-TRIP MV_U<_HS_TRIP==TUV1-TRHSALL MV_U<_LS_TRIP==TUV1-TRLsALL MV_U<_START==O010-OUT MV_U<_TRIP==TUV1-TRIPALL MV_U>_HS_TRIP==TOV1-TRHSALL MV_U>_LS_TRIP==TOV1-TRLsALL MV_U>_START==O009-OUT MV_U>_TRIP==TOV1-TRIPALL OIL_TEMP_ALARM==IO01-BI5 OIL_TEMP_TRIP==IO01-BI3 OVEREXITATION_AL==OVEX-ALARM OVEREXITATION_TRIP==OVEX-TRIP OVERLOAD_ALARM_1==THOL-ALARMI OVERLOAD_ALARM_2==THOL-ALARM2 OVERLOAD_LOCKOUT==THOL-LOCKOUT OVERLOAD_TRIP==THOL-TRIP	Config_4\12-I EVENT\15-I Config_4\9-I Config_4\12-I EVENT\15-I EVENT\15-I EVENT\15-I EVENT\15-I EVENT\15-I Config_4\9-I Config_4\12-I Config_4\7-I Config_4\4-I Config_4\6-I Config_4\8-I Config_4\6-I Config_4\8-I Config_4\11-I Config_4\12-I EVENT\13-I EVENT\14-I Config_4\12-I EVENT\14-I Config_4\9-I Config_4\12-I EVENT\14-I Config_4\6-I Config_4\12-I EVENT\14-I Config_4\12-I EVENT\14-I EVENT\14-I EVENT\14-I EVENT\14-I Config_4\9-I Config_4\9-I Config_4\12-I EVENT\14-I EVENT\14-I EVENT\14-I EVENT\14-I Config_4\9-I Config_4\9-I Config_4\12-I EVENT\14-I EVENT\14-I EVENT\14-I Config_4\12-I Config_4\9-I Config_4\12-I Config_4\11-I EVENT\16-I Config_4\10-O EVENT\16-I Config_4\11-I Config_4\12-I EVENT\15-I Config_4\9-I EVENT\15-I Config_4\9-I Config_4\12-I EVENT\15-I	PRESSURE_ALARM==IO01-BI7 REAL_T_CLOCK_ERR==TIME-RTCERR RESET_RET==IO01-BII RET_TRIP_LOCKOUT==TR01-OUT TC_AUTO_BLOCK==VCTR-AUTOBLK TC_AUTO_MODE==VCTR-AUTO TC_ERROR==VCTR-TCERR TC_HUNTING==VCTR-HUNTING TC_IN_MAX_POSITION==VCTR-HIPOS TC_IN_MIN_POSITION==VCTR-LOPOS TC_IN_PROGRESS==IO01-BI9 TC_LOCAL_MMl MODE==VCTR-LOCALMMI TC_LOCAL_MODE==VCTR-LOCAL TC_LOWER==VCTR-LOWER TC_MANUAL_MODE==VCTR-MAN TC_PARITY_BIT==IO01-BII6 TC_POS_READ_ERROR=CNV-ERROR TC_POSITION_BIT_1==IO01-BII0 TC_POSITION_BIT_2==IO01-BII1 TC_POSITION_BIT_3==IO01-BII2 TC_POSITION_BIT_4==IO01-BII3 TC_POSITION_BIT_5==IO01-BII4 TC_POSITION_BIT_6==IO01-BII5 TC_POSITION_VALUE=CNV-VALUE TC_RAISE==VCTR-RAISE TC_REMOTE_MODE==VCTR-REMOTE TC_STATIONE_MODE==VCTR-STATION TC_VOLTAGE_BLOCK==VCTR-UBLK TEST_MODE_ACTIVE==TEST-ACTIVE TIME_SYNC_ERR==TIME-SYNCERR TRANSF_DISCONNECTED==IO01-BI8 WNDG_TEMP_ALARM==IO01-BI4 WNDG_TEMP_TRIP==IO01-BI2	Config_4\11-I EVENT\16-I EVENT\17-I Config_4\9-I Config_4\10-O EVENT\16-I Config_4\11-I Config_4\12-I EVENT\13-I Config_4\11-I EVENT\18-I EVENT\18-I Config_4\11-I EVENT\18-I EVENT\18-I EVENT\18-I EVENT\18-I EVENT\18-I EVENT\18-I Config_4\10-O Config_4\8-I Config_4\10-O Config_4\10-O Config_4\10-O Config_4\10-O Config_4\10-O Config_4\8-I Config_4\8-O Config_4\11-I EVENT\18-I EVENT\18-I EVENT\18-I EVENT\18-I EVENT\17-I EVENT\17-I Config_4\6-I Config_4\8-I Config_4\10-O Config_4\11-I EVENT\16-I Config_4\11-I EVENT\16-I Config_4\10-O EVENT\16-I
B	HV_EF_HS_TRIP==TEF1-TRHS HV_EF_LS_TRIP==TEF1-TRLs HV_EF_START==TEF1-STLS HV_EF_TRIP==TEF1-TRIP HV_Neutral_I=C1P1-SI HV_OC_HS_TRIP==TOC1-TRHS HV_OC_LS_TRIP==TOC1-TRLs HV_OC_START_L1==TOC1-STLSL1 HV_OC_START_L2==TOC1-STLSL2 HV_OC_START_L3==TOC1-STLSL3 HV_OC_TRIP==TOC1-TRIP HV_Open_Delta==V1P2-SU HV_PhI1-Phi2_U==V1P1-SU HV_REF_TRIP==REF2-TRIP HV_U<_HS_TRIP==TUV2-TRHS HV_U<_LS_TRIP==TUV2-TRLs HV_U<_TRIP==TUV2-TRIP HV_U>_HS_TRIP==TOV2-TRHS HV_U>_LS_TRIP==TOV2-TRLs HV_U>_TRIP==TOV2-TRIP IO_BARD_1_ERR==IO01-ERROR IO_BARD_2_ERR==IO02-ERROR LV_3Ph_I=C3P4-G3I LV_CB_TRIP==TR04-OUT LV_EF_HS_I0_TRIP==TEF3-TRHS LV_EF_HS_U0_TRIP==TOV3-TRLs LV_EF_I0_START==TEF3-STLS LV_EF_I0_J==TEF3-TRIP	EVENT\13-I EVENT\14-I EVENT\14-I Config_4\12-I EVENT\14-I Config_4\9-I Config_4\12-I EVENT\14-I Config_4\5-I Config_4\5-I Config_4\9-I Config_4\12-I EVENT\13-I Config_4\12-I EVENT\14-I Config_4\12-I EVENT\14-I EVENT\14-I EVENT\14-I EVENT\14-I Config_4\9-I Config_4\5-I Config_4\5-I Config_4\9-I Config_4\12-I EVENT\13-I Config_4\12-I EVENT\14-I Config_4\12-I EVENT\14-I Config_4\9-I Config_4\12-I EVENT\14-I Config_4\9-I EVENT\17-I EVENT\17-I Config_4\4-I Config_4\7-I Config_4\11-I Config_4\12-I EVENT\13-I EVENT\15-I Config_4\9-I Config_4\9-I EVENT\15-I	MV_EF_HS_I0_TRIP==TEF2-TRHS MV_EF_I0_START==TEF2-STLS MV_EF_I0_TRIP==TEF2-TRIP MV_EF_I0_TRIP_TIME==TM05-ON MV_EF_LS_I0_TRIP==TEF2-TRLs MV_Neutral_I=C1P2-SI MV_OC_HS_TRIP==TOC2-TRHS MV_OC_LS_TRIP==TOC2-TRLs MV_OC_START_L1==TO2-STLSL1 MV_OC_START_L2==TO2-STLSL2 MV_OC_START_L3==TO2-STLSL3 MV_OC_TRIP==TOC2-TRIP MV_REF_TRIP==REF1-TRIP MV_U<_HS_TRIP==TUV1-TRHSALL MV_U<_LS_TRIP==TUV1-TRLsALL MV_U<_START==O010-OUT MV_U<_TRIP==TUV1-TRIPALL MV_U>_HS_TRIP==TOV1-TRHSALL MV_U>_LS_TRIP==TOV1-TRLsALL MV_U>_START==O009-OUT MV_U>_TRIP==TOV1-TRIPALL OIL_TEMP_ALARM==IO01-BI5 OIL_TEMP_TRIP==IO01-BI3 OVEREXITATION_AL==OVEX-ALARM OVEREXITATION_TRIP==OVEX-TRIP OVERLOAD_ALARM_1==THOL-ALARMI OVERLOAD_ALARM_2==THOL-ALARM2 OVERLOAD_LOCKOUT==THOL-LOCKOUT OVERLOAD_TRIP==THOL-TRIP	Config_4\12-I EVENT\15-I Config_4\9-I Config_4\12-I EVENT\15-I EVENT\15-I EVENT\15-I EVENT\15-I EVENT\15-I Config_4\9-I Config_4\12-I Config_4\7-I Config_4\4-I Config_4\6-I Config_4\8-I Config_4\6-I Config_4\8-I Config_4\11-I Config_4\12-I EVENT\13-I EVENT\14-I Config_4\12-I EVENT\14-I Config_4\9-I Config_4\12-I EVENT\14-I Config_4\6-I Config_4\12-I EVENT\14-I Config_4\12-I EVENT\14-I EVENT\14-I EVENT\14-I EVENT\14-I Config_4\9-I Config_4\9-I Config_4\12-I EVENT\14-I EVENT\14-I EVENT\14-I EVENT\14-I Config_4\9-I Config_4\9-I Config_4\12-I EVENT\14-I EVENT\14-I EVENT\14-I Config_4\12-I Config_4\9-I Config_4\12-I Config_4\11-I EVENT\16-I Config_4\10-O EVENT\16-I Config_4\11-I Config_4\12-I EVENT\15-I Config_4\9-I EVENT\15-I Config_4\9-I Config_4\12-I EVENT\15-I	PRESSURE_ALARM==IO01-BI7 REAL_T_CLOCK_ERR==TIME-RTCERR RESET_RET==IO01-BII RET_TRIP_LOCKOUT==TR01-OUT TC_AUTO_BLOCK==VCTR-AUTOBLK TC_AUTO_MODE==VCTR-AUTO TC_ERROR==VCTR-TCERR TC_HUNTING==VCTR-HUNTING TC_IN_MAX_POSITION==VCTR-HIPOS TC_IN_MIN_POSITION==VCTR-LOPOS TC_IN_PROGRESS==IO01-BI9 TC_LOCAL_MMl MODE==VCTR-LOCALMMI TC_LOCAL_MODE==VCTR-LOCAL TC_LOWER==VCTR-LOWER TC_MANUAL_MODE==VCTR-MAN TC_PARITY_BIT==IO01-BII6 TC_POS_READ_ERROR=CNV-ERROR TC_POSITION_BIT_1==IO01-BII0 TC_POSITION_BIT_2==IO01-BII1 TC_POSITION_BIT_3==IO01-BII2 TC_POSITION_BIT_4==IO01-BII3 TC_POSITION_BIT_5==IO01-BII4 TC_POSITION_BIT_6==IO01-BII5 TC_POSITION_VALUE=CNV-VALUE TC_RAISE==VCTR-RAISE TC_REMOTE_MODE==VCTR-REMOTE TC_STATIONE_MODE==VCTR-STATION TC_VOLTAGE_BLOCK==VCTR-UBLK TEST_MODE_ACTIVE==TEST-ACTIVE TIME_SYNC_ERR==TIME-SYNCERR TRANSF_DISCONNECTED==IO01-BI8 WNDG_TEMP_ALARM==IO01-BI4 WNDG_TEMP_TRIP==IO01-BI2	Config_4\11-I EVENT\16-I EVENT\17-I Config_4\9-I Config_4\10-O EVENT\16-I Config_4\11-I Config_4\12-I EVENT\13-I Config_4\11-I EVENT\18-I EVENT\18-I Config_4\11-I EVENT\18-I EVENT\18-I EVENT\18-I EVENT\18-I EVENT\18-I EVENT\18-I Config_4\10-O Config_4\8-I Config_4\10-O Config_4\10-O Config_4\10-O Config_4\10-O Config_4\10-O Config_4\8-I Config_4\8-O Config_4\11-I EVENT\18-I EVENT\18-I EVENT\18-I EVENT\18-I EVENT\17-I EVENT\17-I Config_4\6-I Config_4\8-I Config_4\10-O Config_4\11-I EVENT\16-I Config_4\11-I EVENT\16-I Config_4\10-O EVENT\16-I
C	HV_EF_HS_TRIP==TEF1-TRHS HV_EF_LS_TRIP==TEF1-TRLs HV_EF_START==TEF1-STLS HV_EF_TRIP==TEF1-TRIP HV_Neutral_I=C1P1-SI HV_OC_HS_TRIP==TOC1-TRHS HV_OC_LS_TRIP==TOC1-TRLs HV_OC_START_L1==TOC1-STLSL1 HV_OC_START_L2==TOC1-STLSL2 HV_OC_START_L3==TOC1-STLSL3 HV_OC_TRIP==TOC1-TRIP HV_Open_Delta==V1P2-SU HV_PhI1-Phi2_U==V1P1-SU HV_REF_TRIP==REF2-TRIP HV_U<_HS_TRIP==TUV2-TRHS HV_U<_LS_TRIP==TUV2-TRLs HV_U<_TRIP==TUV2-TRIP HV_U>_HS_TRIP==TOV2-TRHS HV_U>_LS_TRIP==TOV2-TRLs HV_U>_TRIP==TOV2-TRIP IO_BARD_1_ERR==IO01-ERROR IO_BARD_2_ERR==IO02-ERROR LV_3Ph_I=C3P4-G3I LV_CB_TRIP==TR04-OUT LV_EF_HS_I0_TRIP==TEF3-TRHS LV_EF_HS_U0_TRIP==TOV3-TRLs LV_EF_I0_START==TEF3-STLS LV_EF_I0_J==TEF3-TRIP	EVENT\13-I EVENT\14-I EVENT\14-I Config_4\12-I EVENT\14-I Config_4\9-I Config_4\12-I EVENT\14-I Config_4\5-I Config_4\5-I Config_4\9-I Config_4\12-I EVENT\13-I Config_4\12-I EVENT\14-I Config_4\12-I EVENT\14-I EVENT\14-I EVENT\14-I EVENT\14-I Config_4\9-I Config_4\5-I Config_4\5-I Config_4\9-I Config_4\12-I EVENT\13-I Config_4\12-I EVENT\14-I Config_4\12-I EVENT\14-I Config_4\9-I Config_4\12-I EVENT\14-I Config_4\9-I EVENT\17-I EVENT\17-I Config_4\4-I Config_4\7-I Config_4\11-I Config_4\12-I EVENT\13-I EVENT\15-I Config_4\9-I Config_4\9-I EVENT\15-I	MV_EF_HS_I0_TRIP==TEF2-TRHS MV_EF_I0_START==TEF2-STLS MV_EF_I0_TRIP==TEF2-TRIP MV_EF_I0_TRIP_TIME==TM05-ON MV_EF_LS_I0_TRIP==TEF2-TRLs MV_Neutral_I=C1P2-SI MV_OC_HS_TRIP==TOC2-TRHS MV_OC_LS_TRIP==TOC2-TRLs MV_OC_START_L1==TO2-STLSL1 MV_OC_START_L2==TO2-STLSL2 MV_OC_START_L3==TO2-STLSL3 MV_OC_TRIP==TOC2-TRIP MV_REF_TRIP==REF1-TRIP MV_U<_HS_TRIP==TUV1-TRHSALL MV_U<_LS_TRIP==TUV1-TRLsALL MV_U<_START==O010-OUT MV_U<_TRIP==TUV1-TRIPALL MV_U>_HS_TRIP==TOV1-TRHSALL MV_U>_LS_TRIP==TOV1-TRLsALL MV_U>_START==O009-OUT MV_U>_TRIP==TOV1-TRIPALL OIL_TEMP_ALARM==IO01-BI5 OIL_TEMP_TRIP==IO01-BI3 OVEREXITATION_AL==OVEX-ALARM OVEREXITATION_TRIP==OVEX-TRIP OVERLOAD_ALARM_1==THOL-ALARMI OVERLOAD_ALARM_2==THOL-ALARM2 OVERLOAD_LOCKOUT==THOL-LOCKOUT OVERLOAD_TRIP==THOL-TRIP	Config_4\12-I EVENT\15-I Config_4\9-I Config_4\12-I EVENT\15-I EVENT\15-I EVENT\15-I EVENT\15-I EVENT\15-I Config_4\9-I Config_4\12-I Config_4\7-I Config_4\4-I Config_4\6-I Config_4\8-I Config_4\6-I Config_4\8-I Config_4\11-I Config_4\12-I EVENT\13-I EVENT\14-I Config_4\12-I EVENT\14-I Config_4\9-I Config_4\12-I EVENT\14-I Config_4\6-I Config_4\12-I EVENT\14-I Config_4\12-I EVENT\14-I EVENT\14-I EVENT\14-I EVENT\14-I Config_4\9-I Config_4\9-I Config_4\12-I EVENT\14-I EVENT\14-I EVENT\14-I EVENT\14-I Config_4\9-I Config_4\9-I Config_4\12-I EVENT\14-I EVENT\14-I EVENT\14-I Config_4\12-I Config_4\9-I Config_4\12-I Config_4\11-I EVENT\16-I Config_4\10-O EVENT\16-I Config_4\11-I Config_4\12-I EVENT\15-I Config_4\9-I EVENT\15-I Config_4\9-I Config_4\12-I EVENT\15-I	PRESSURE_ALARM==IO01-BI7 REAL_T_CLOCK_ERR==TIME-RTCERR RESET_RET==IO01-BII RET_TRIP_LOCKOUT==TR01-OUT TC_AUTO_BLOCK==VCTR-AUTOBLK TC_AUTO_MODE==VCTR-AUTO TC_ERROR==VCTR-TCERR TC_HUNTING==VCTR-HUNTING TC_IN_MAX_POSITION==VCTR-HIPOS TC_IN_MIN_POSITION==VCTR-LOPOS TC_IN_PROGRESS==IO01-BI9 TC_LOCAL_MMl MODE==VCTR-LOCALMMI TC_LOCAL_MODE==VCTR-LOCAL TC_LOWER==VCTR-LOWER TC_MANUAL_MODE==VCTR-MAN TC_PARITY_BIT==IO01-BII6 TC_POS_READ_ERROR=CNV-ERROR TC_POSITION_BIT_1==IO01-BII0 TC_POSITION_BIT_2==IO01-BII1 TC_POSITION_BIT_3==IO01-BII2 TC_POSITION_BIT_4==IO01-BII3 TC_POSITION_BIT_5==IO01-BII4 TC_POSITION_BIT_6==IO01-BII5 TC_POSITION_VALUE=CNV-VALUE TC_RAISE==VCTR-RAISE TC_REMOTE_MODE==VCTR-REMOTE TC_STATIONE_MODE==VCTR-STATION TC_VOLTAGE_BLOCK==VCTR-UBLK TEST_MODE_ACTIVE==TEST-ACTIVE TIME_SYNC_ERR==TIME-SYNCERR TRANSF_DISCONNECTED==IO01-BI8 WNDG_TEMP_ALARM==IO01-BI4 WNDG_TEMP_TRIP==IO01-BI2	Config_4\11-I EVENT\16-I EVENT\17-I Config_4\9-I Config_4\10-O EVENT\16-I Config_4\11-I Config_4\12-I EVENT\13-I Config_4\11-I EVENT\18-I EVENT\18-I Config_4\11-I EVENT\18-I EVENT\18-I EVENT\18-I EVENT\18-I EVENT\18-I EVENT\18-I Config_4\10-O Config_4\8-I Config_4\10-O Config_4\10-O Config_4\10-O Config_4\10-O Config_4\10-O Config_4\8-I Config_4\8-O Config_4\11-I EVENT\18-I EVENT\18-I EVENT\18-I EVENT\18-I EVENT\17-I EVENT\17-I Config_4\6-I Config_4\8-I Config_4\10-O Config_4\11-I EVENT\16-I Config_4\11-I EVENT\16-I Config_4\10-O EVENT\16-I
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		Prepared J Larsson 98-05-27	RET 521	EVENT		
		Approved S Holst 98-05-27	Default configuration 1.0			
Rev Ind	Reg nr		ABB ABB Network Partner AB	Resp dep PS	Rev Ind 01 9832	
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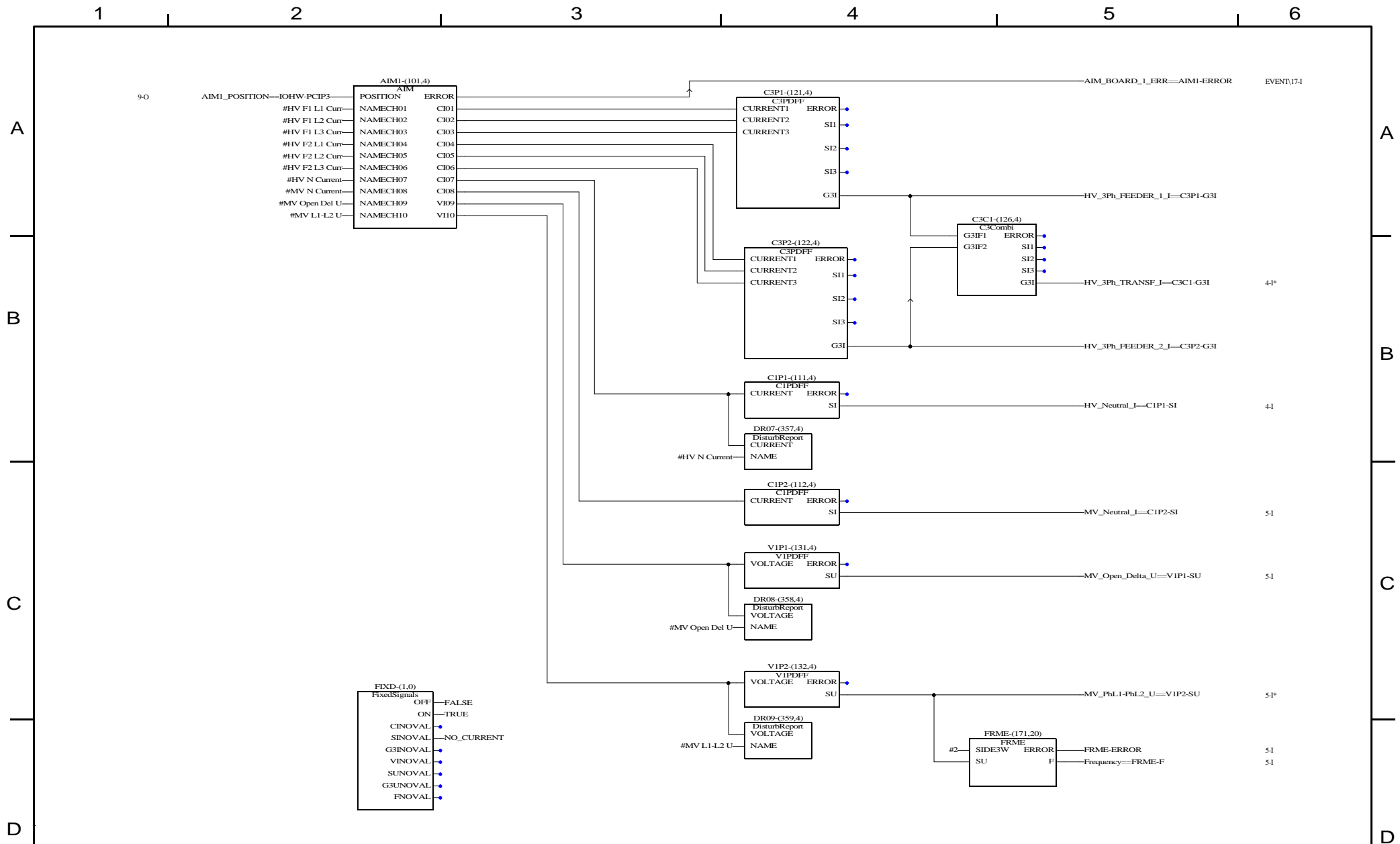
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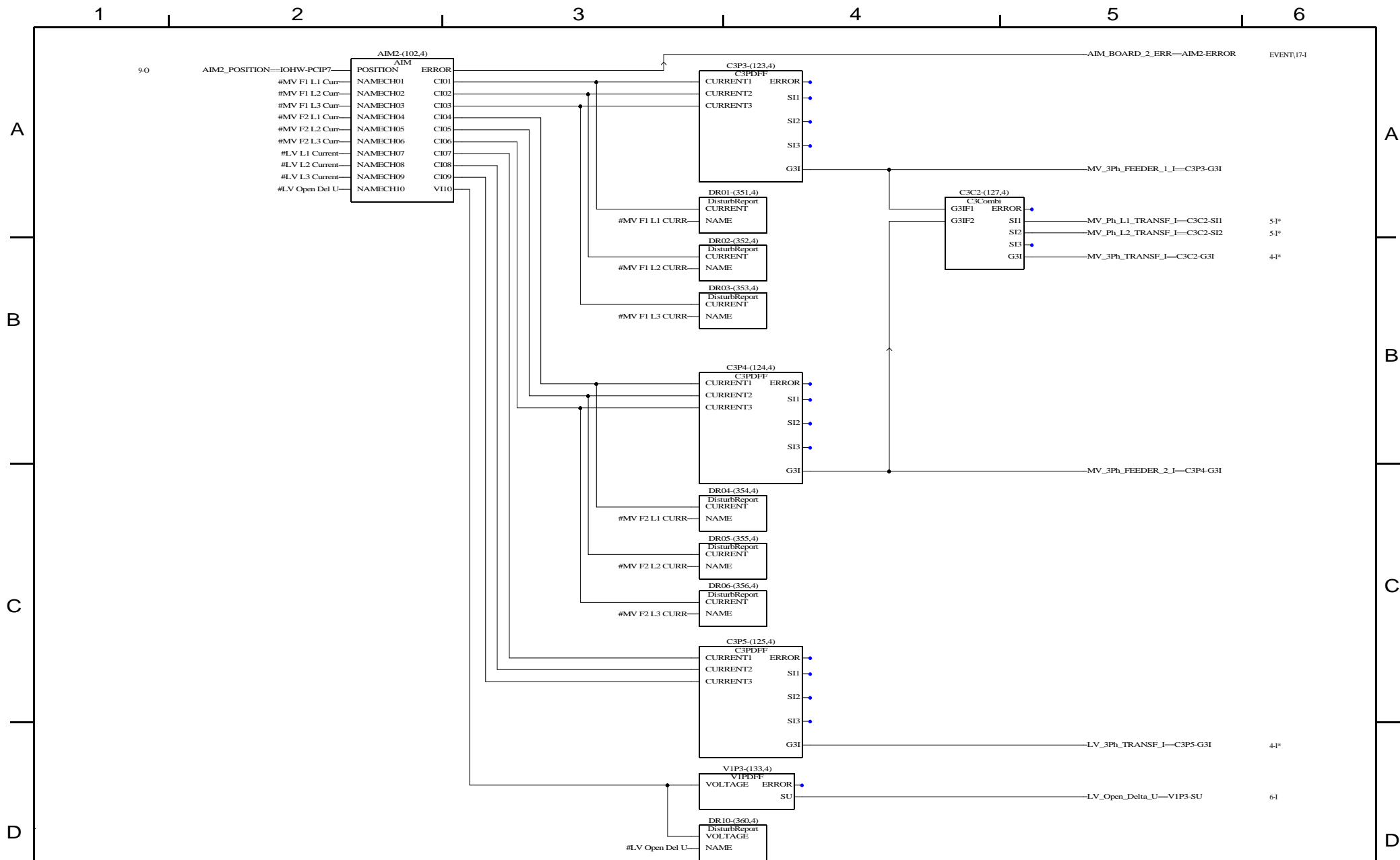
ABB Network Partner AB

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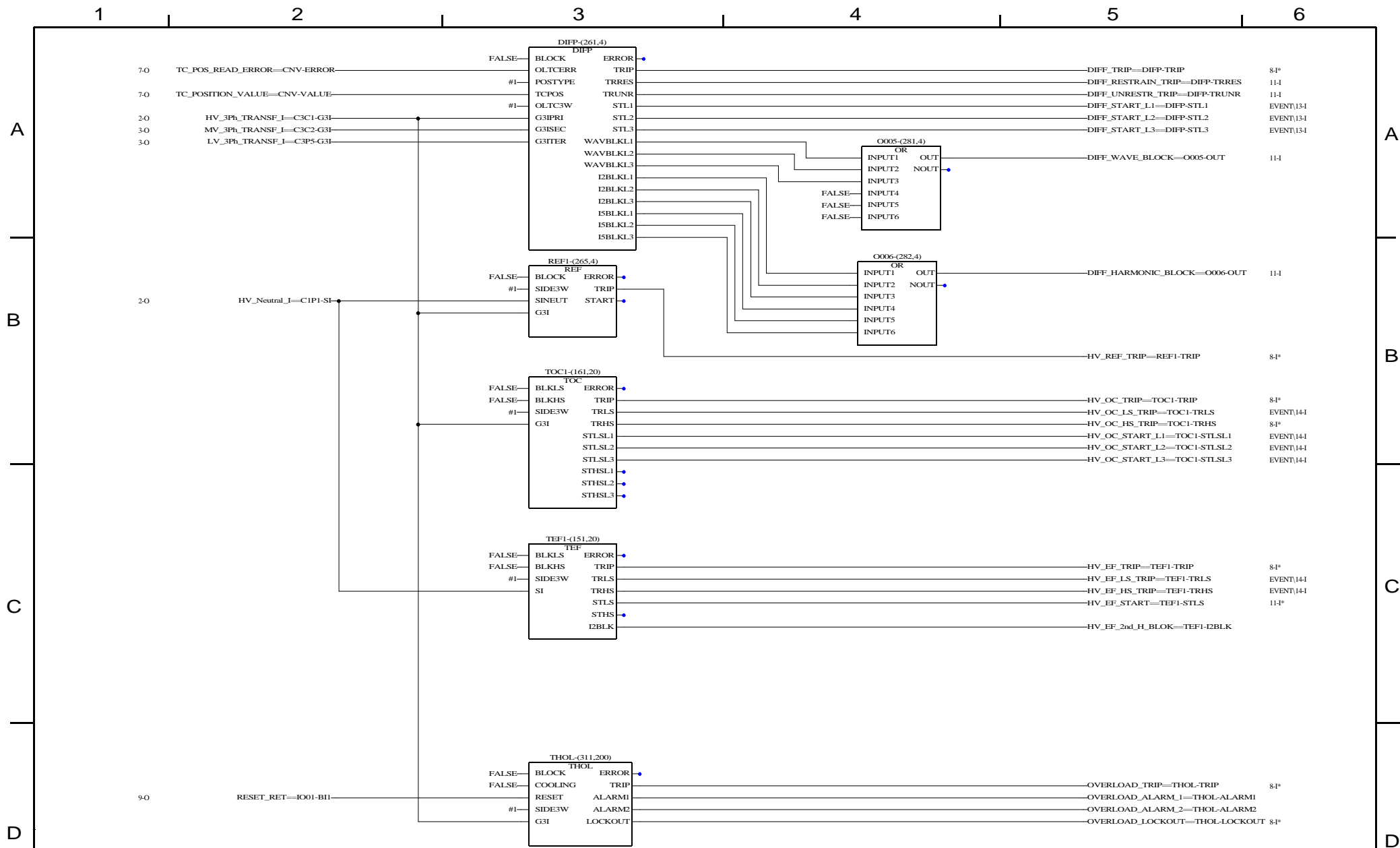
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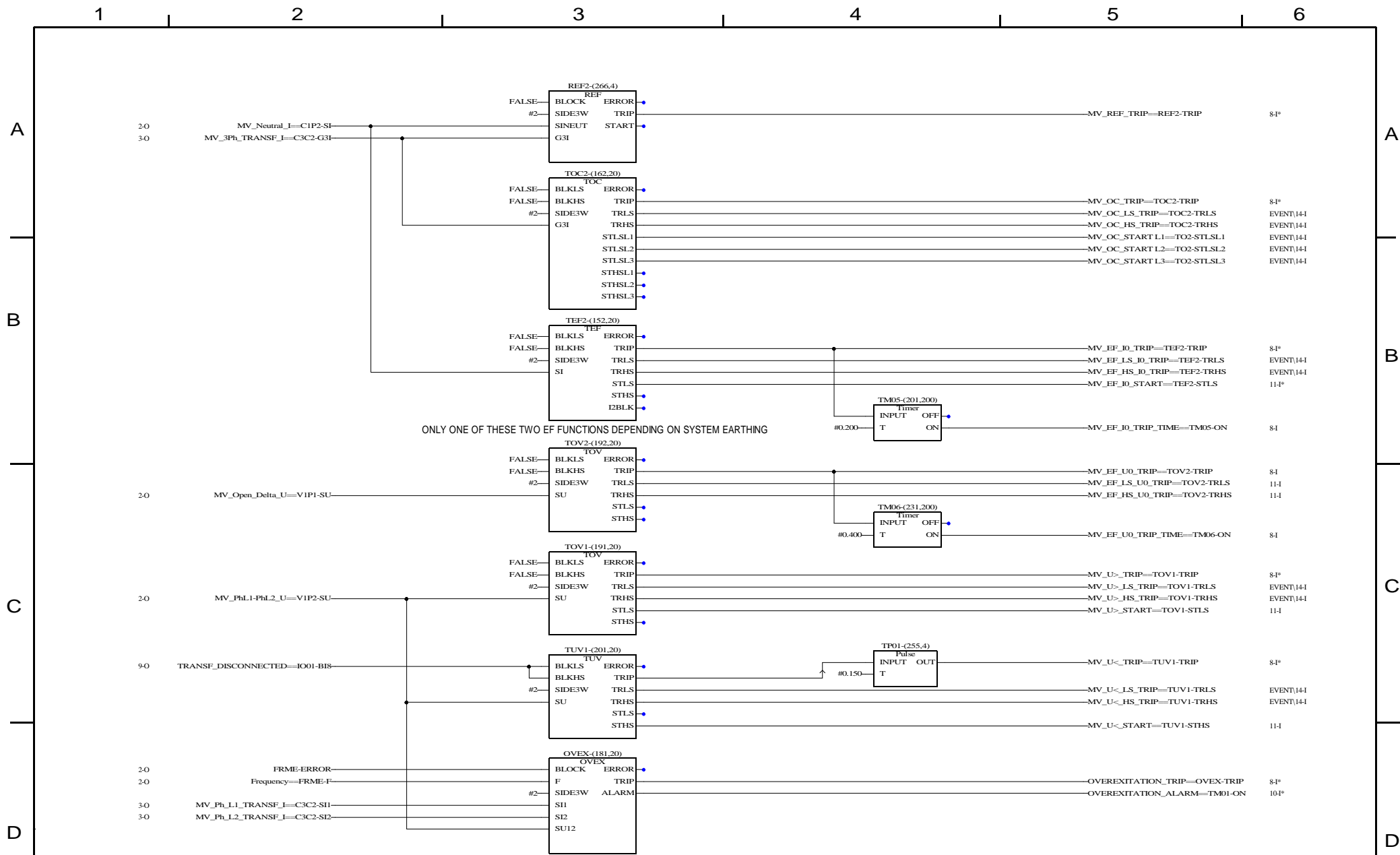
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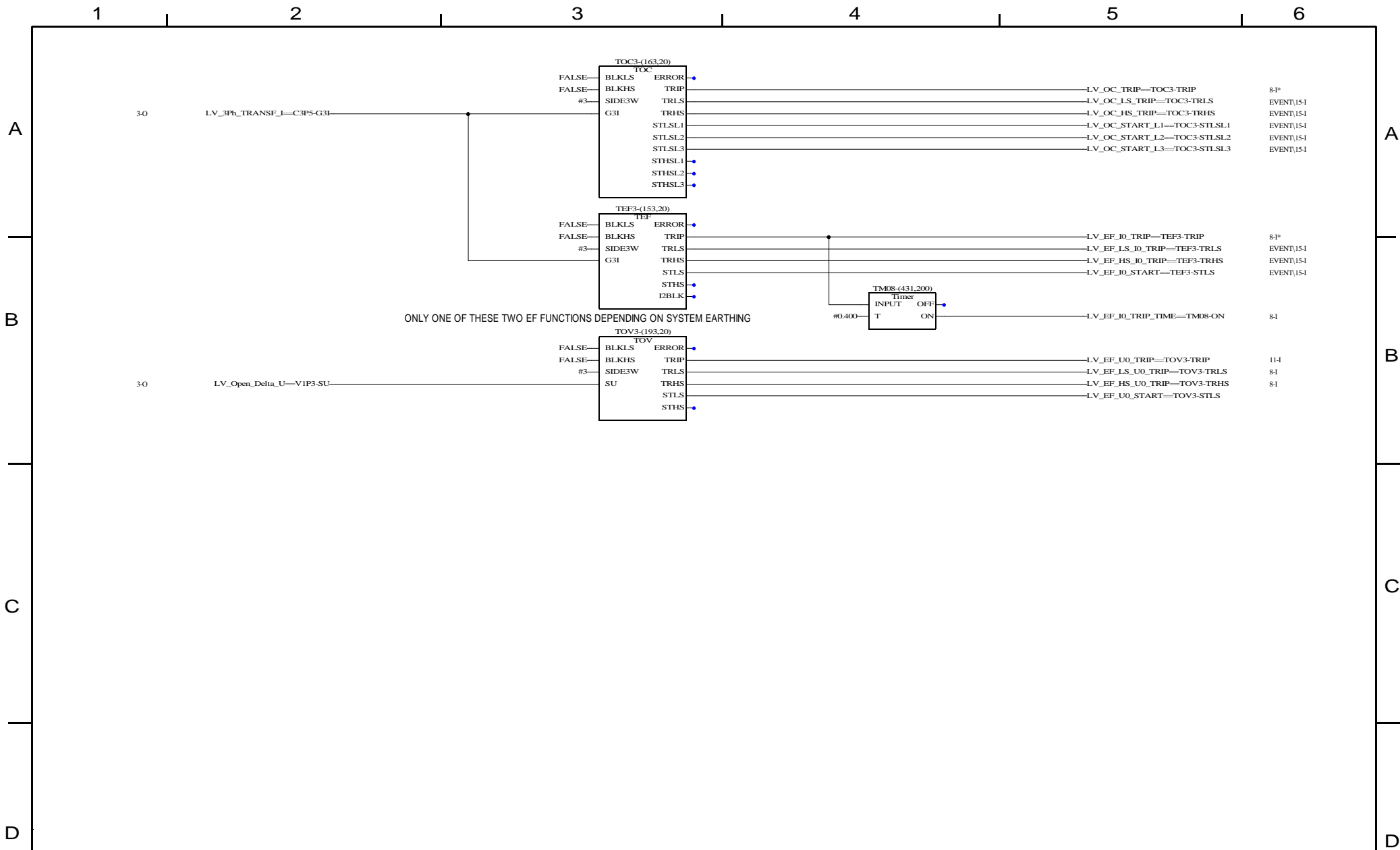
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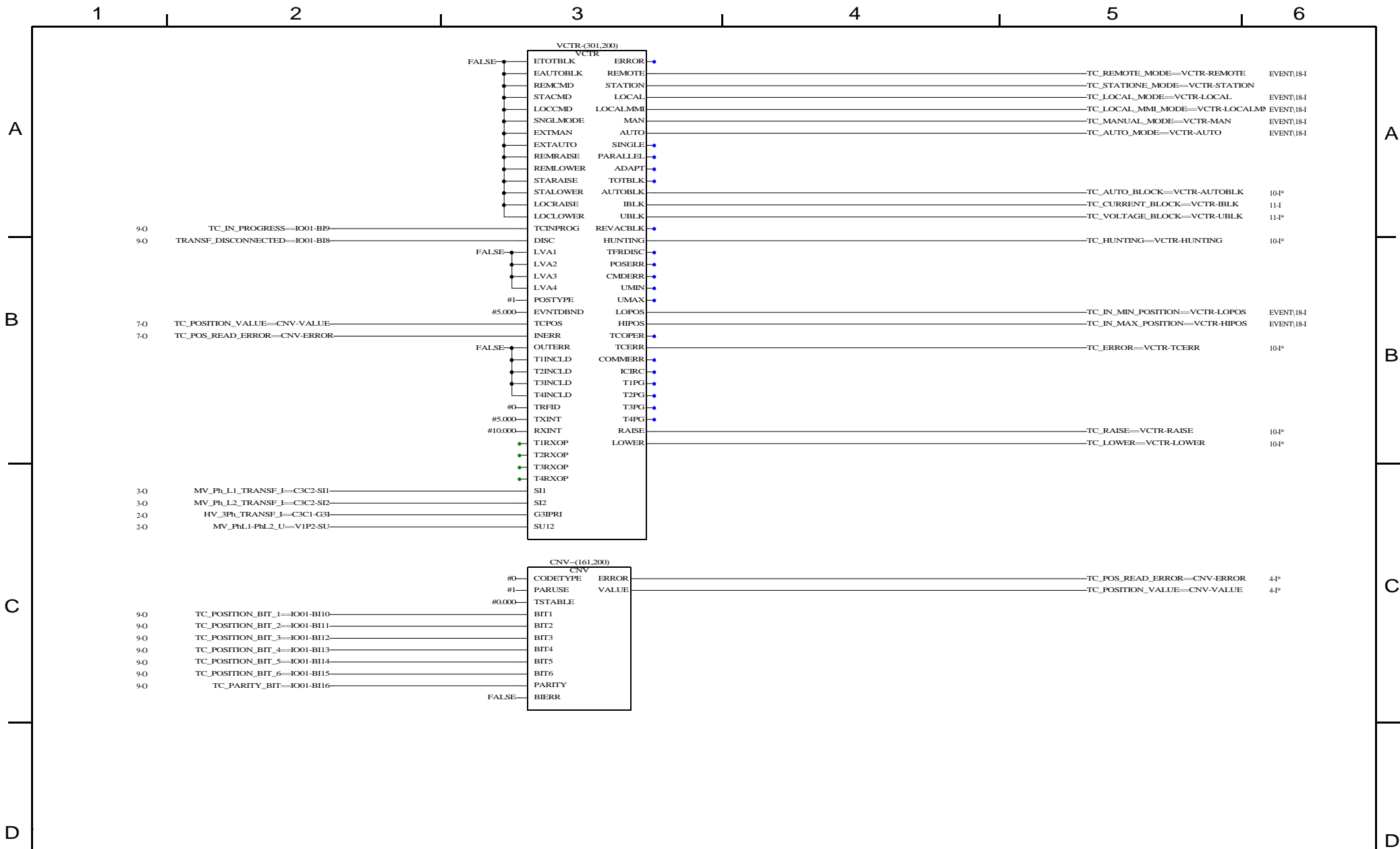
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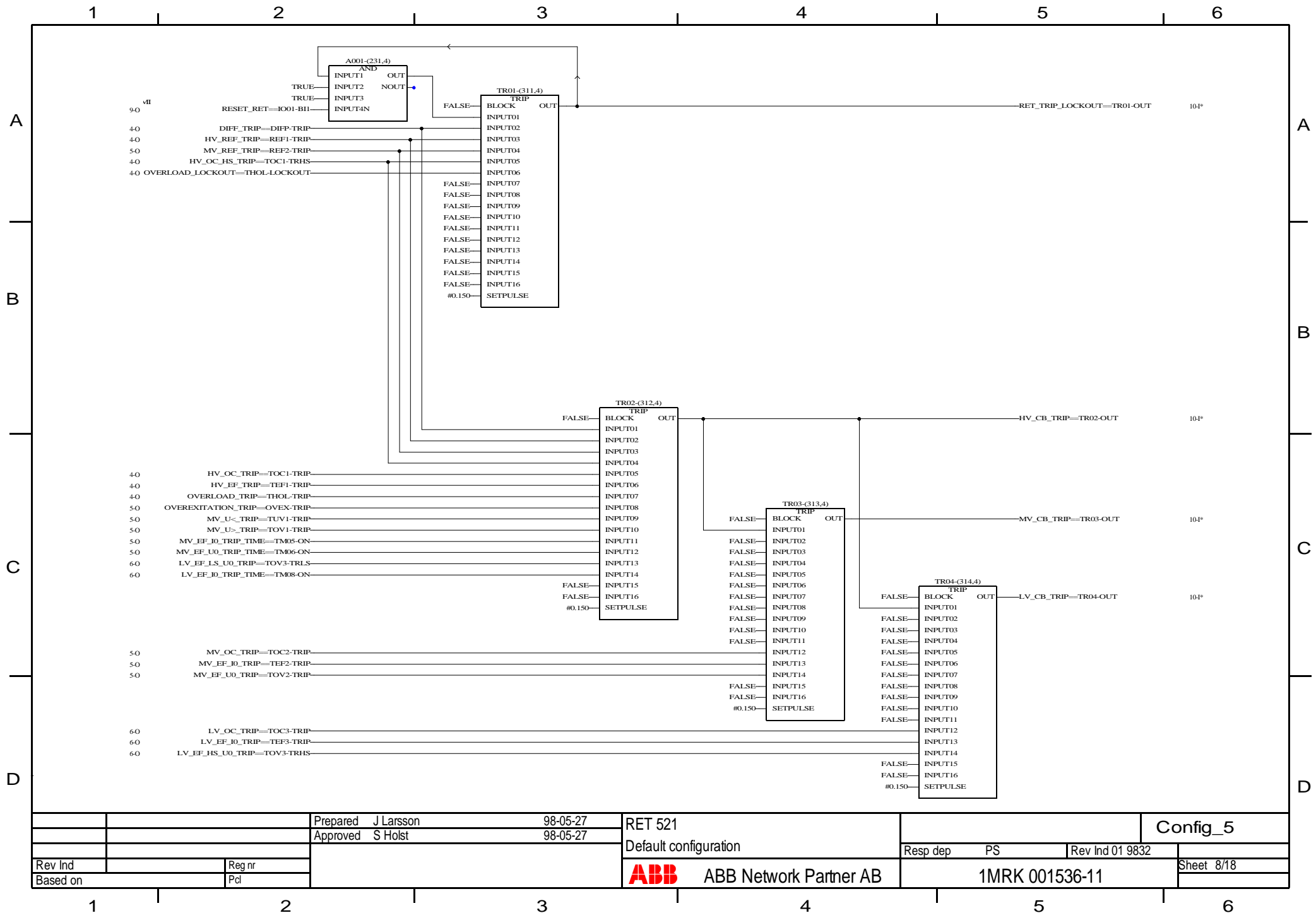
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Rev Ind		Reg nr		ABB ABB Network Partner AB	Resp dep PS	Rev Ind 01 9832	Sheet 5/18
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Rev Ind		Reg nr		ABB	ABB Network Partner AB	Resp dep PS	Rev Ind 01 9832
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RET 521

Default configuration



ABB Network Partner AB

Config_5

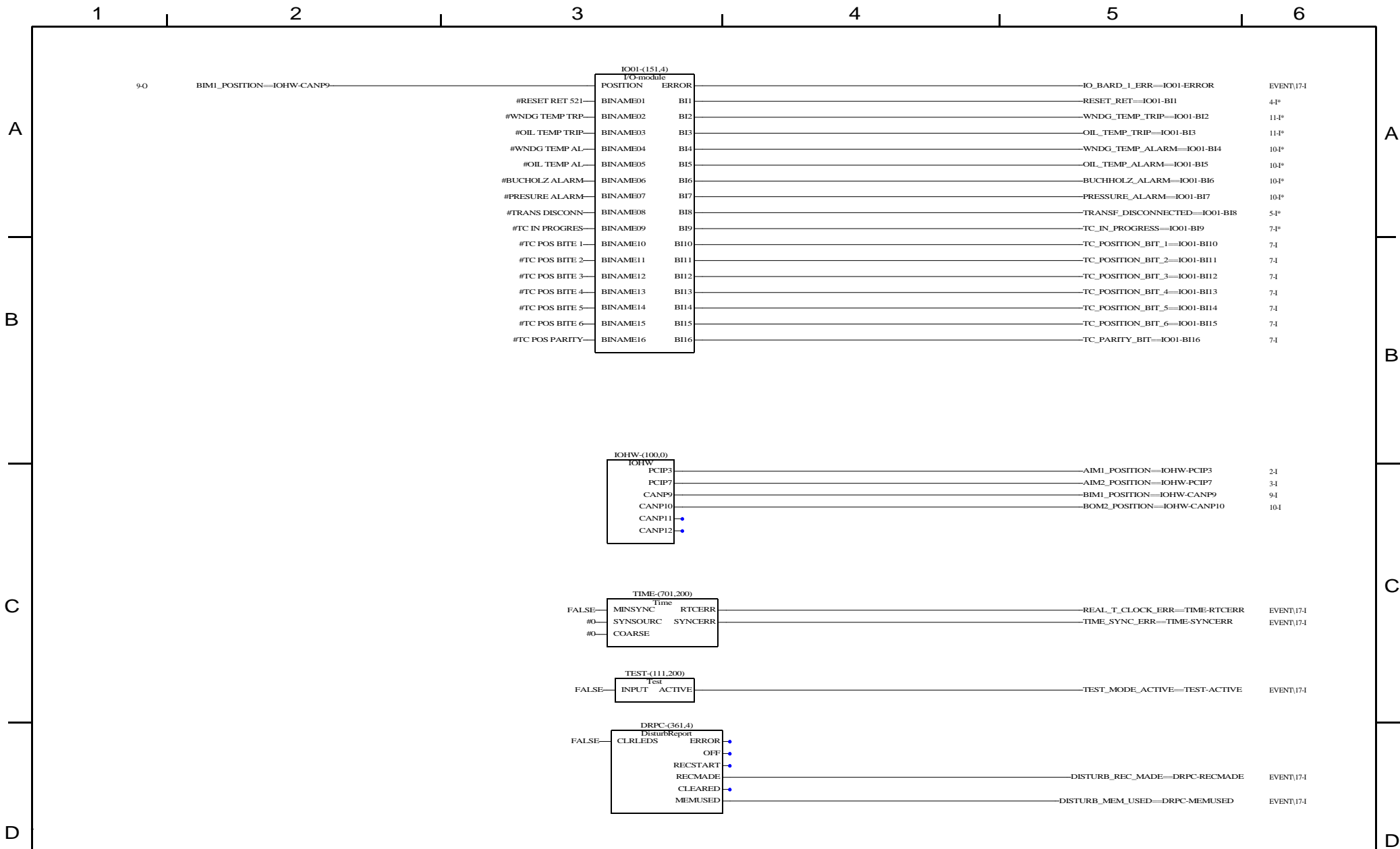
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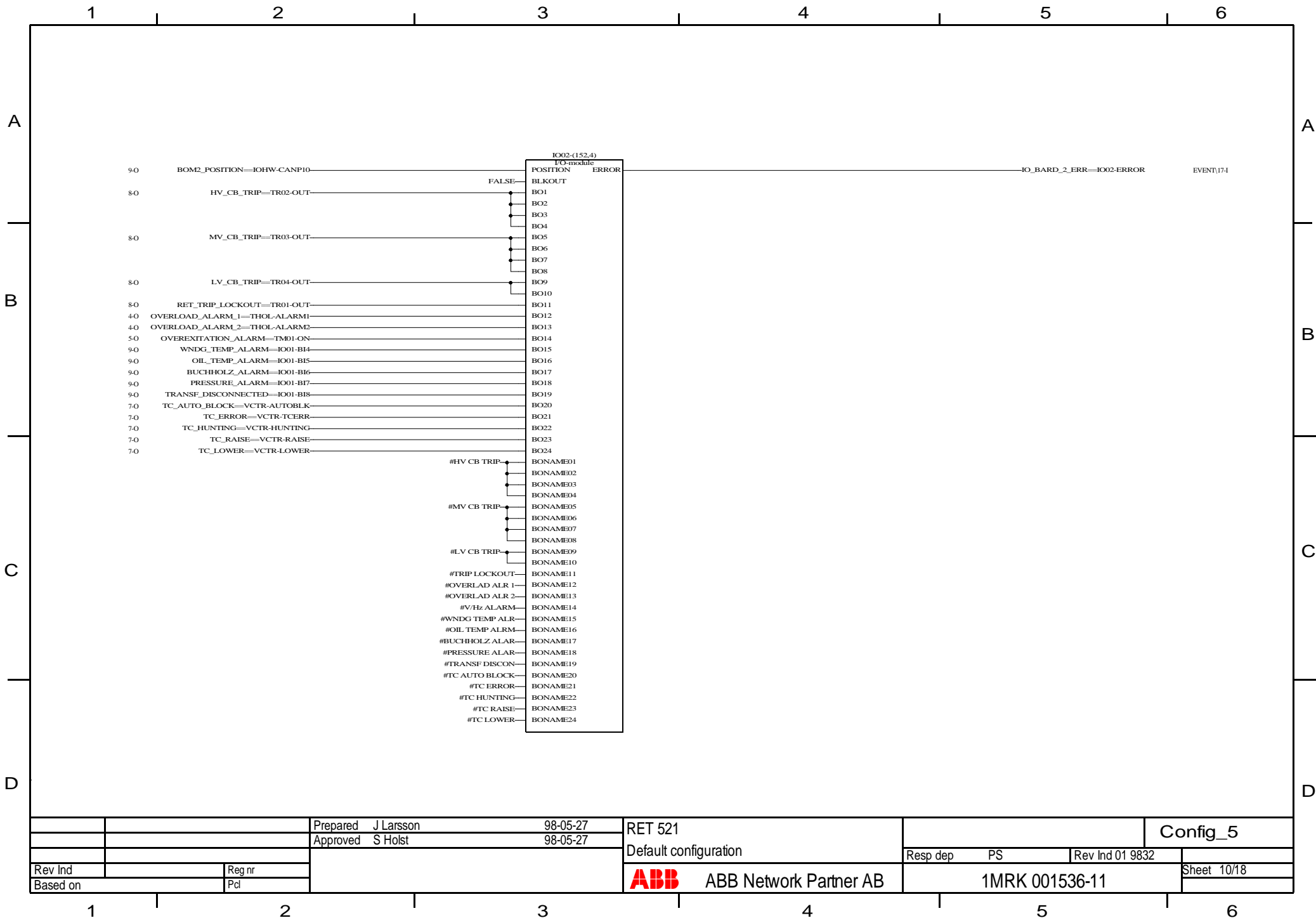
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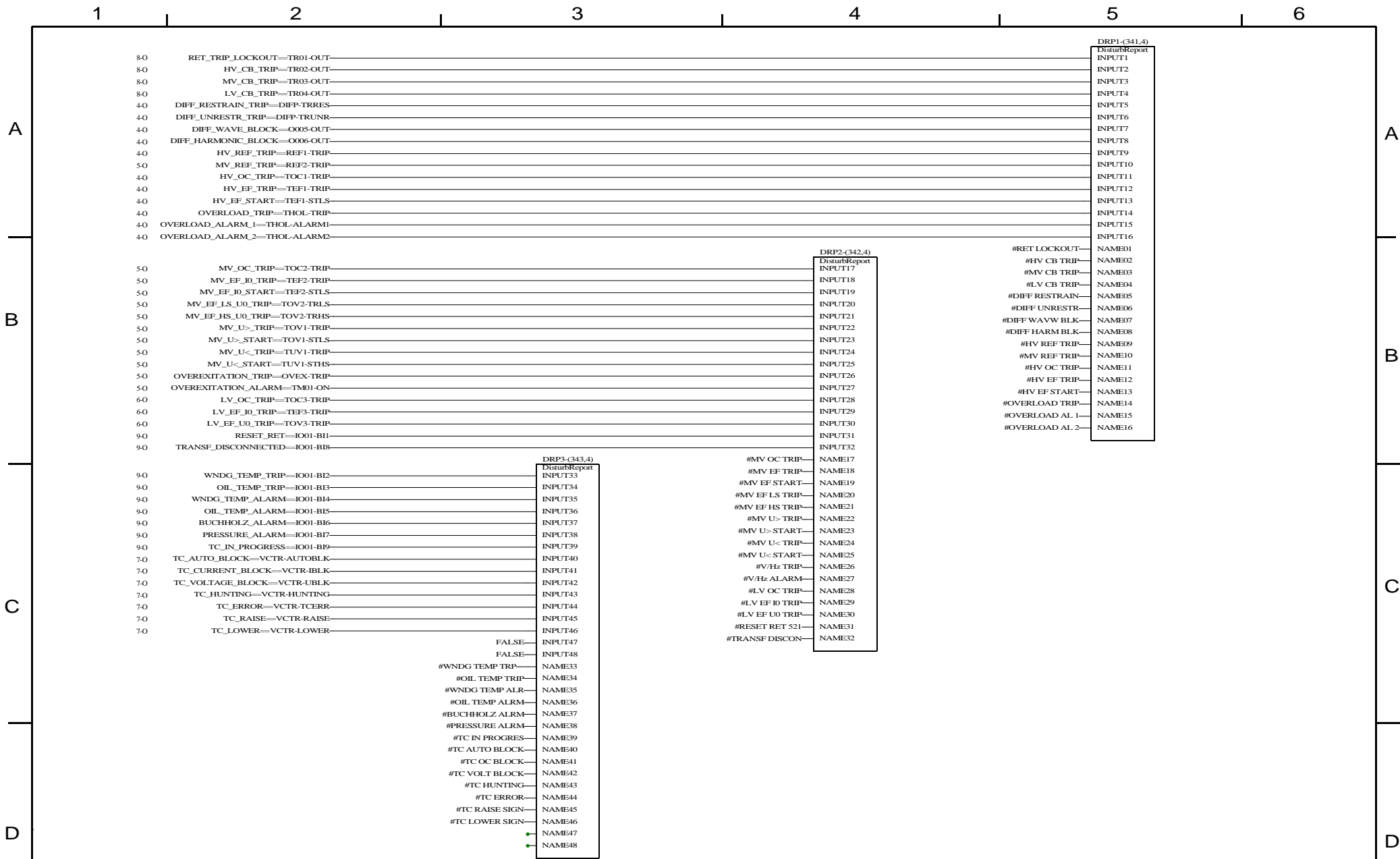
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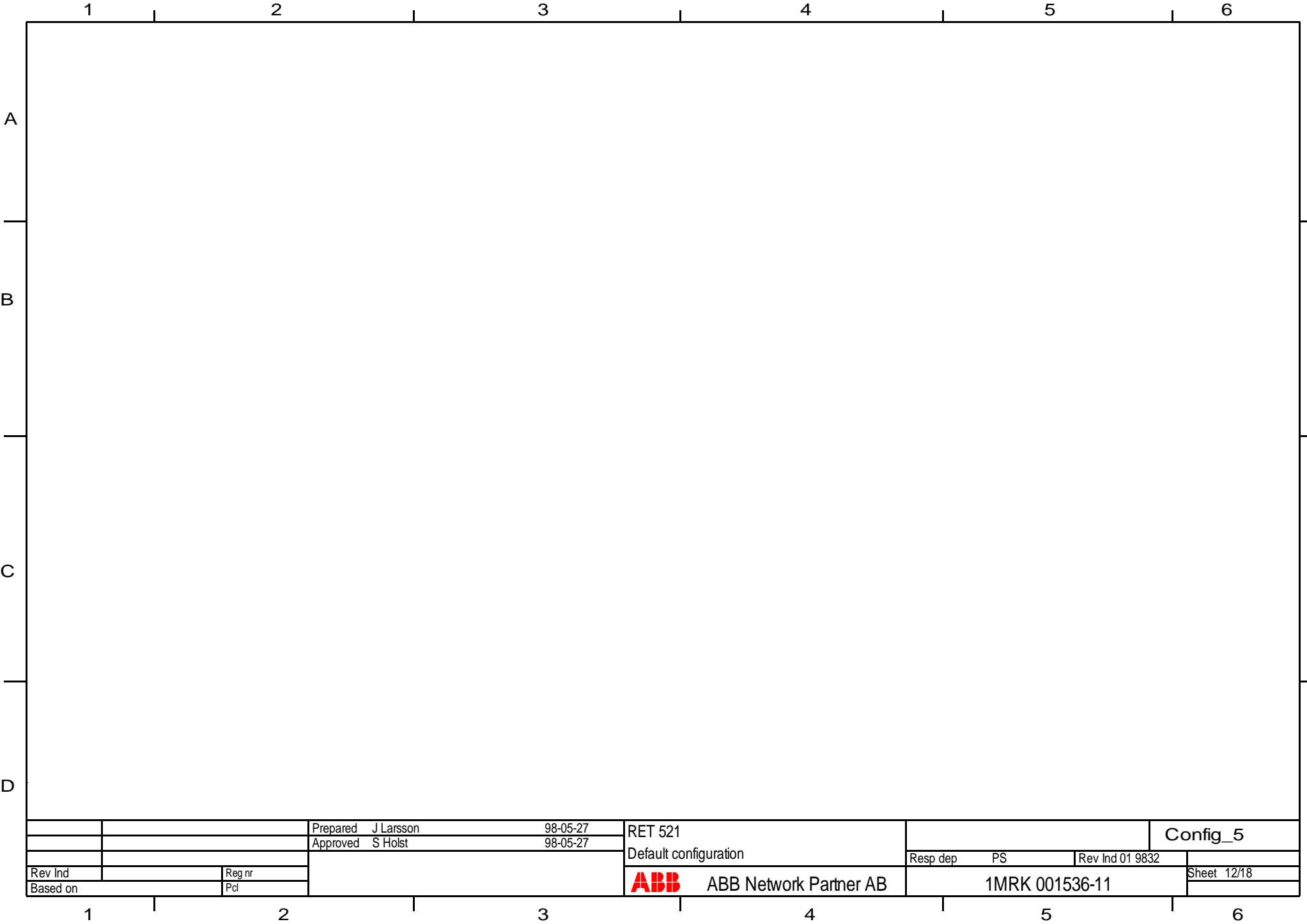
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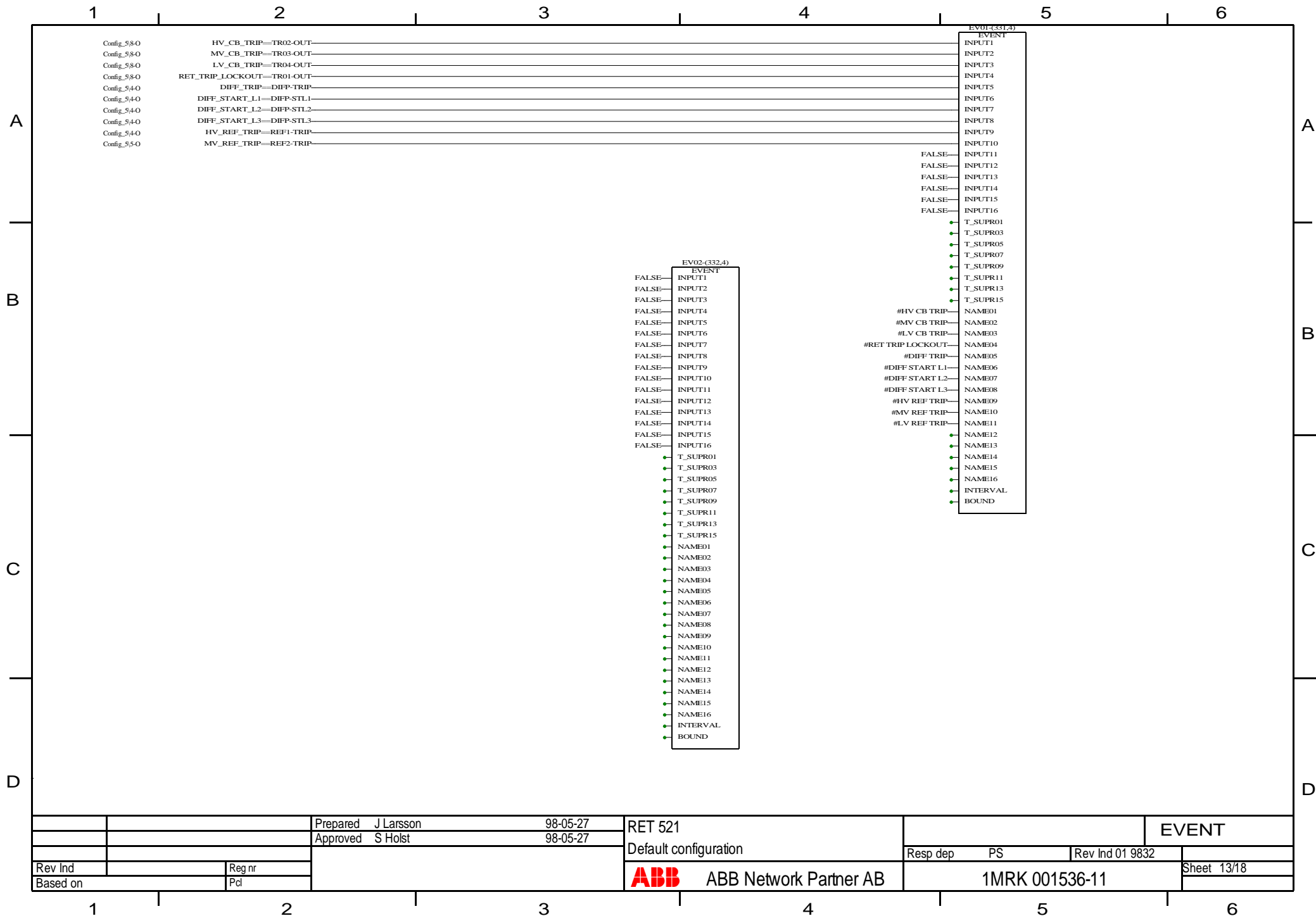
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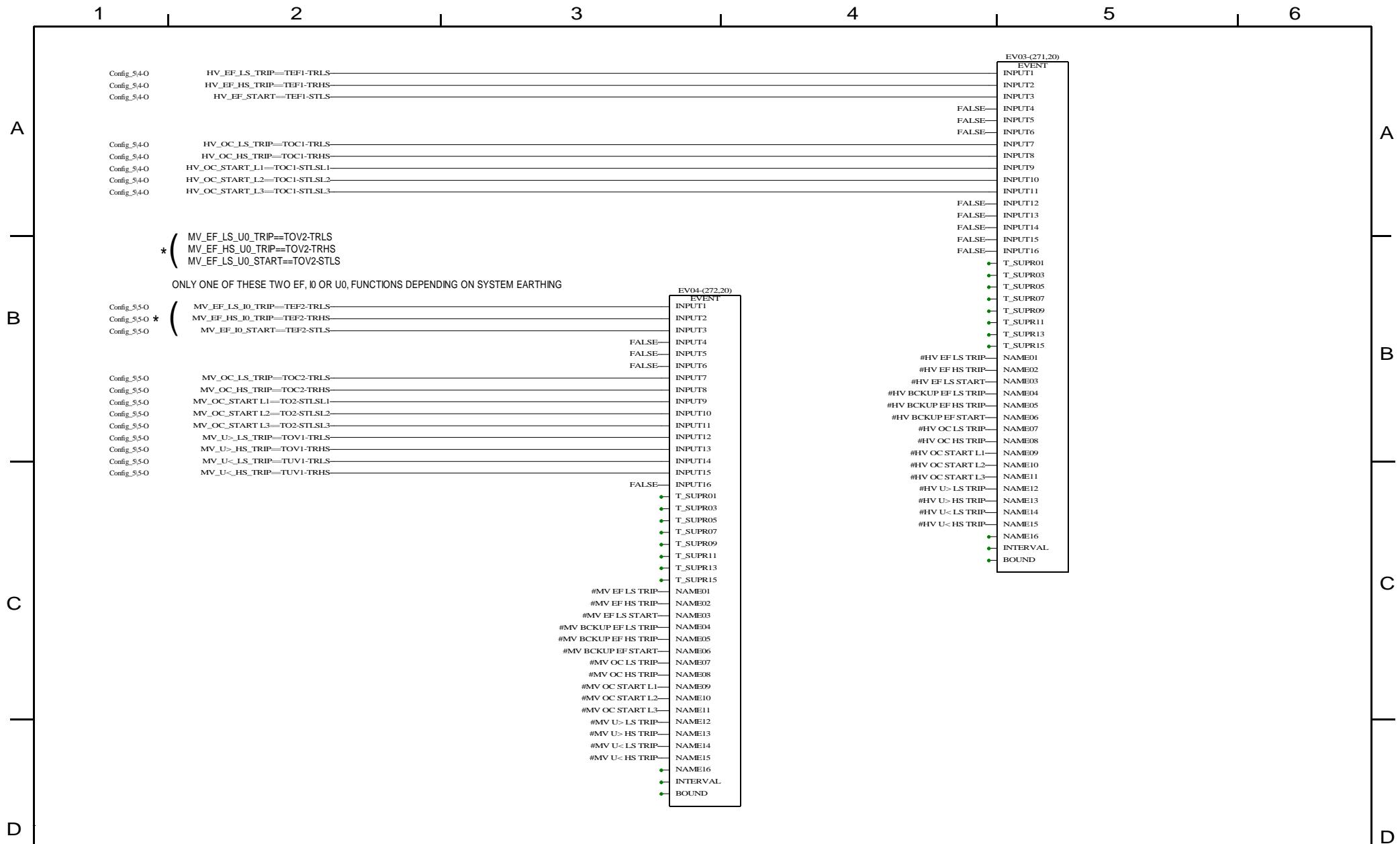
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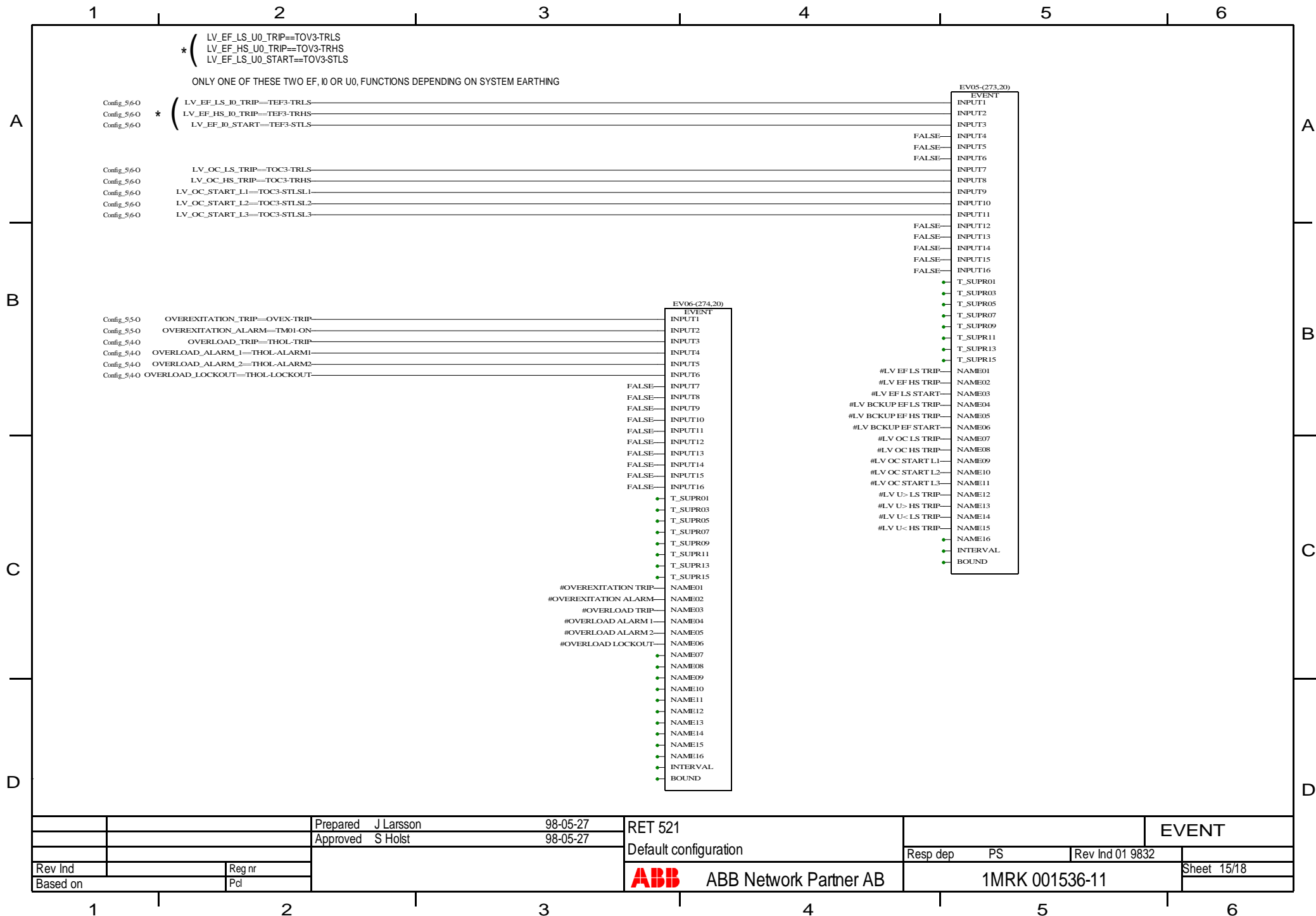
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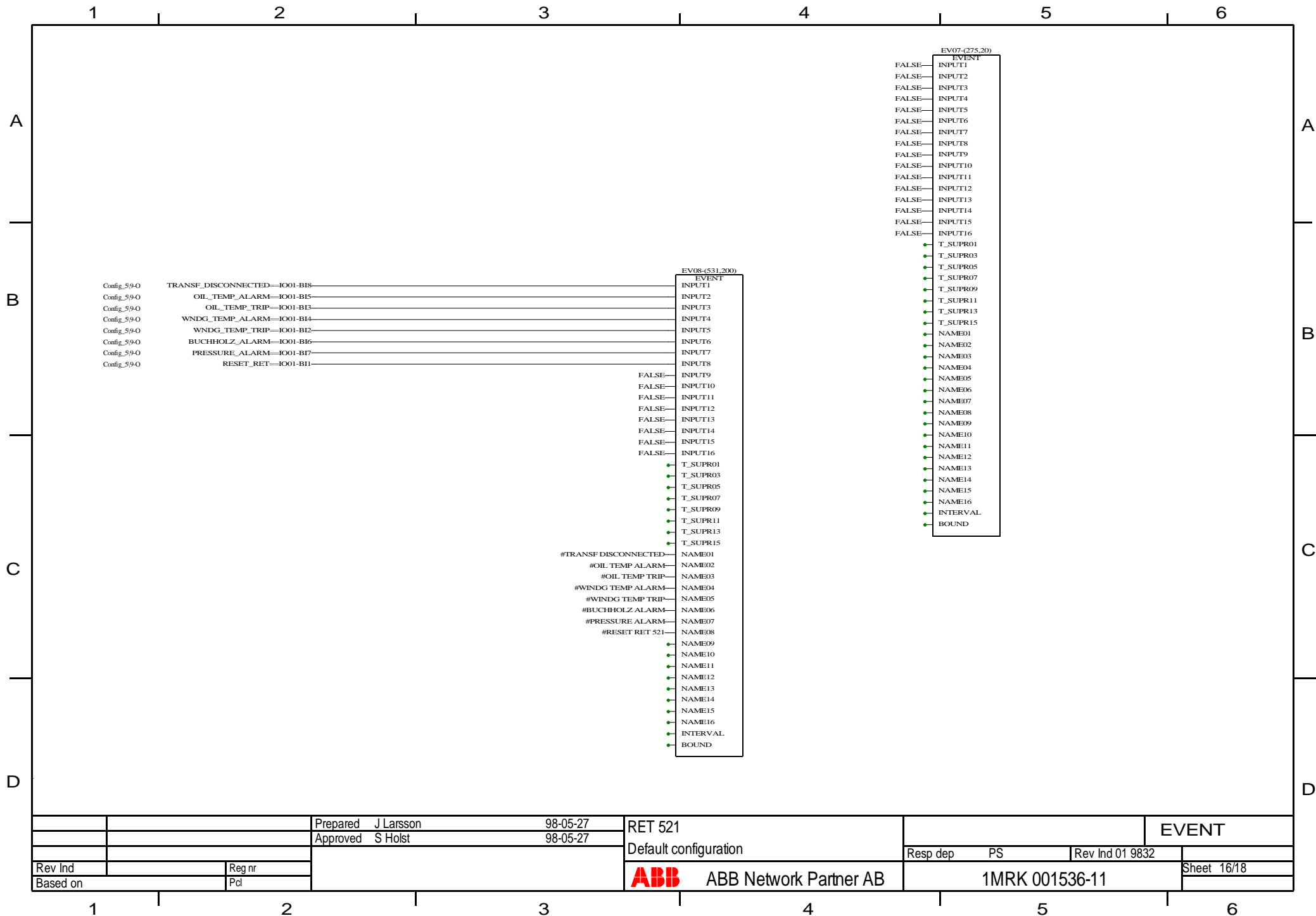
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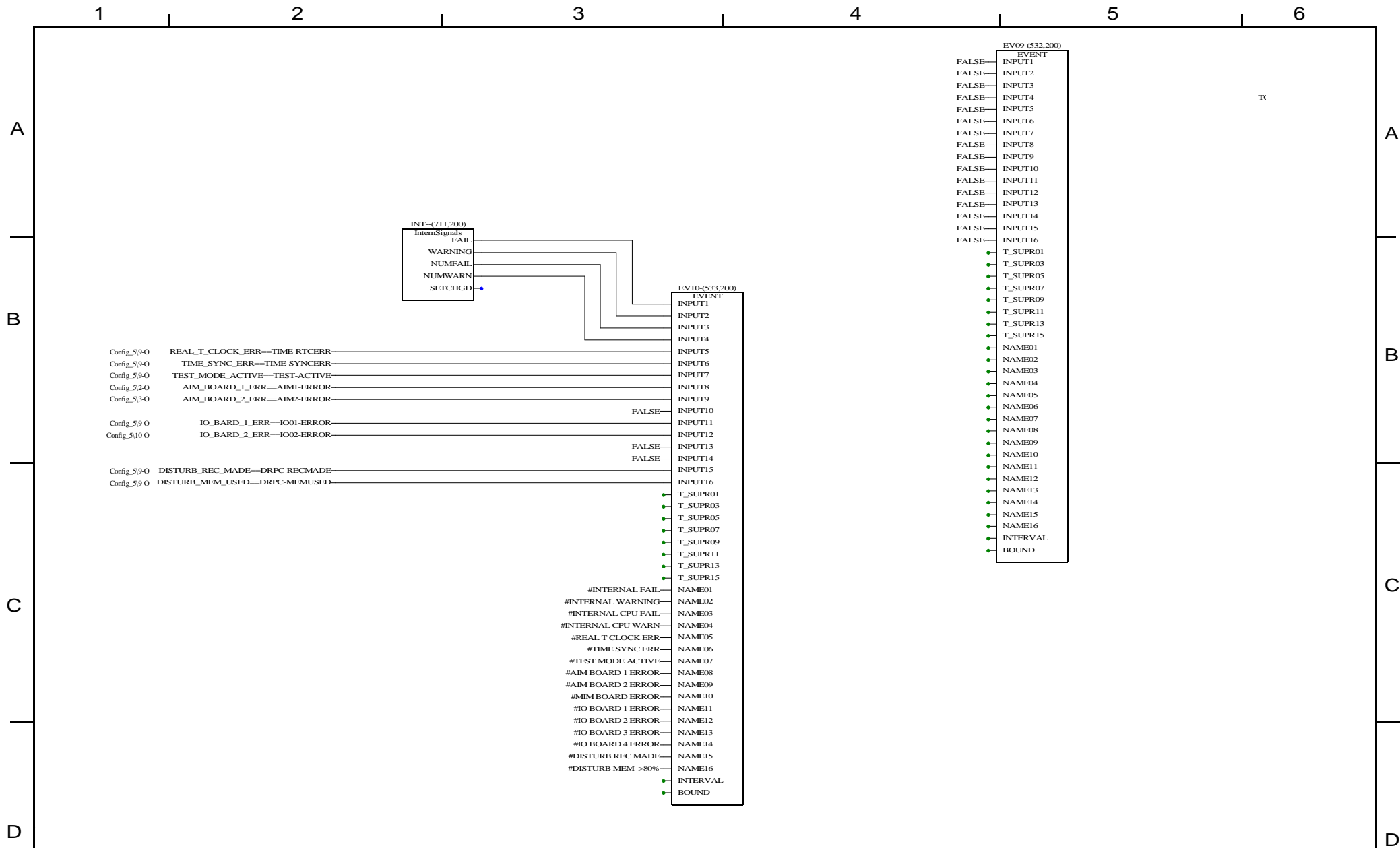
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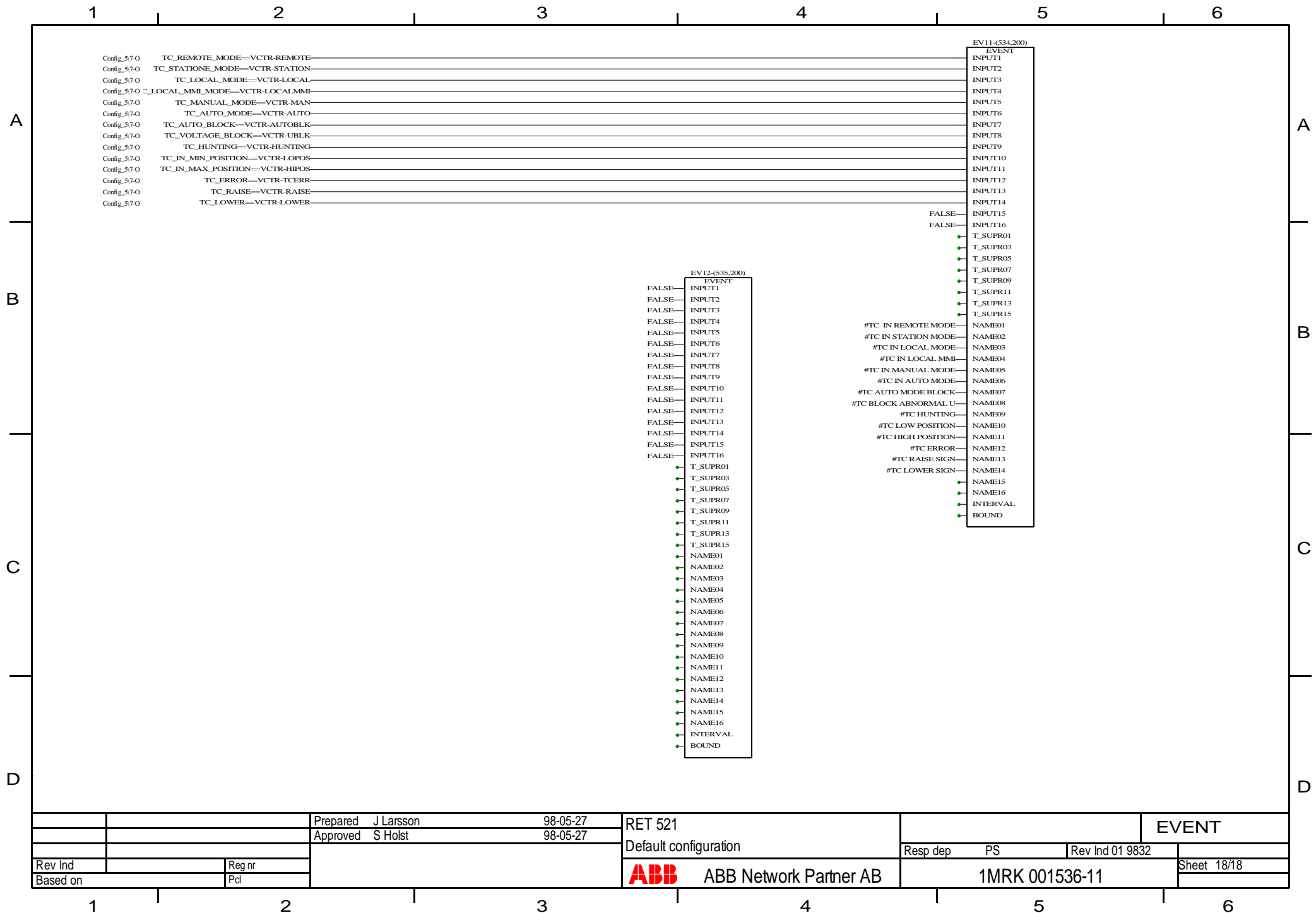
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Rev Ind	Reg nr			ABB ABB Network Partner AB		1MRK 001536-11	
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Based on		Pcl				Sheet 17/18	




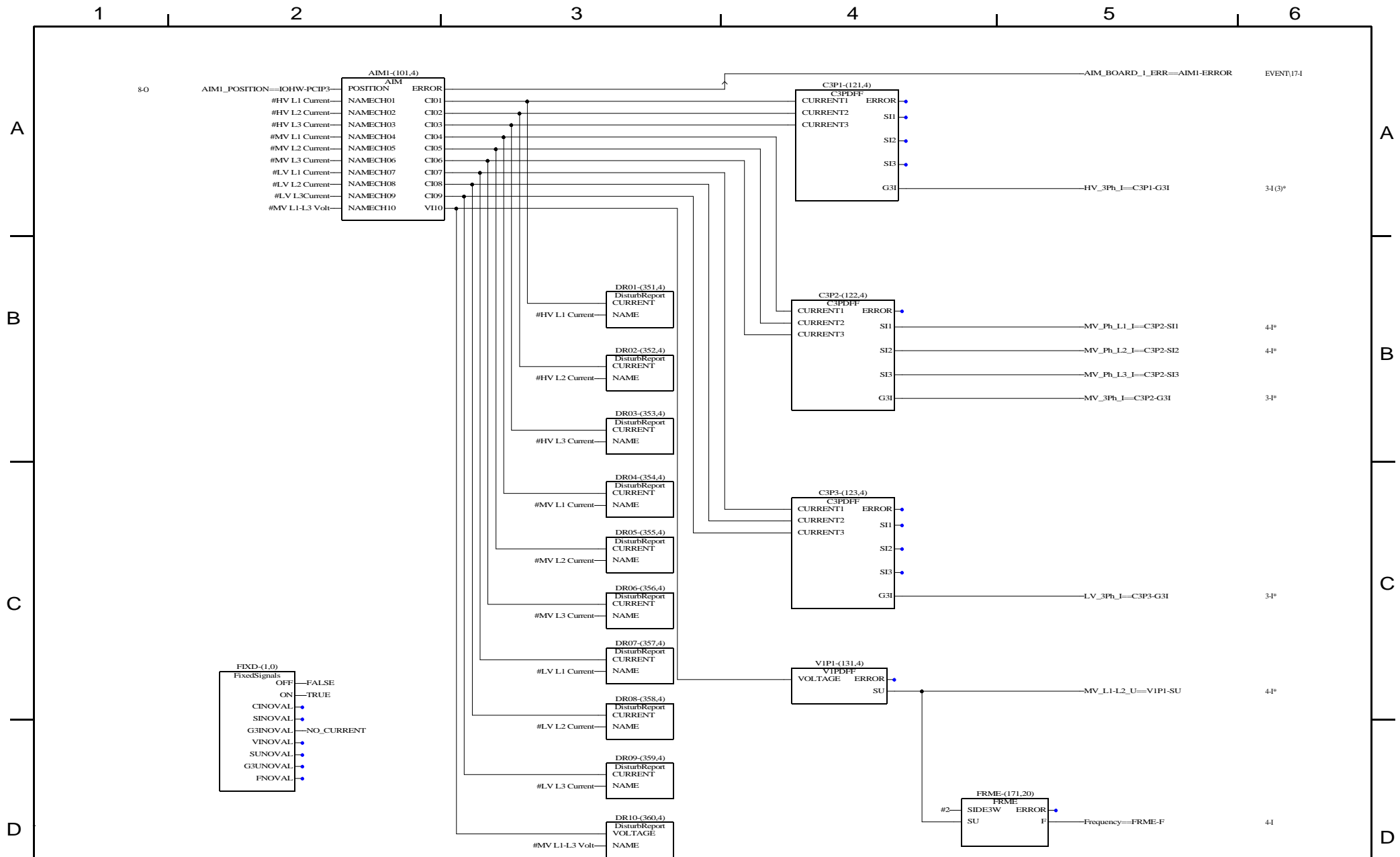
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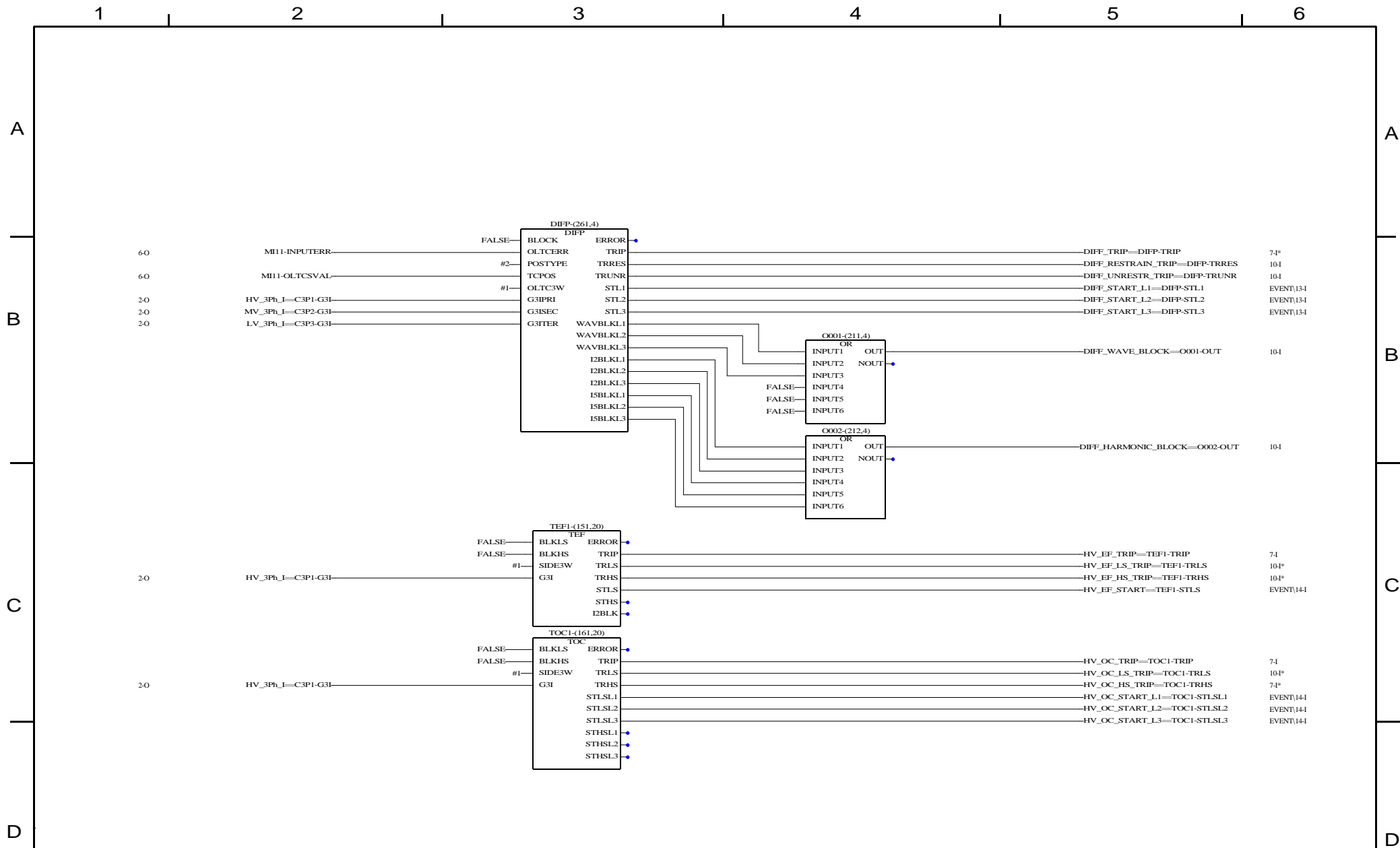
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- Differential & HV Protection Functions
- MV Protection Functions
- LV Protection Functions (Tertiary winding)
- Voltage Control Function & Tap Position Reading
- Tripping Logic
- Configuration of Binary Inputs (BIM01)
- Configuration of Binary Outputs (BOM02)
- Configuration of Disturbance Report
- Configuration of Event Recording

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Sheet No 02
Sheet No 03
Sheet No 04
Sheet No 05
Sheet No 06
Sheet No 07
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Sheet No 09
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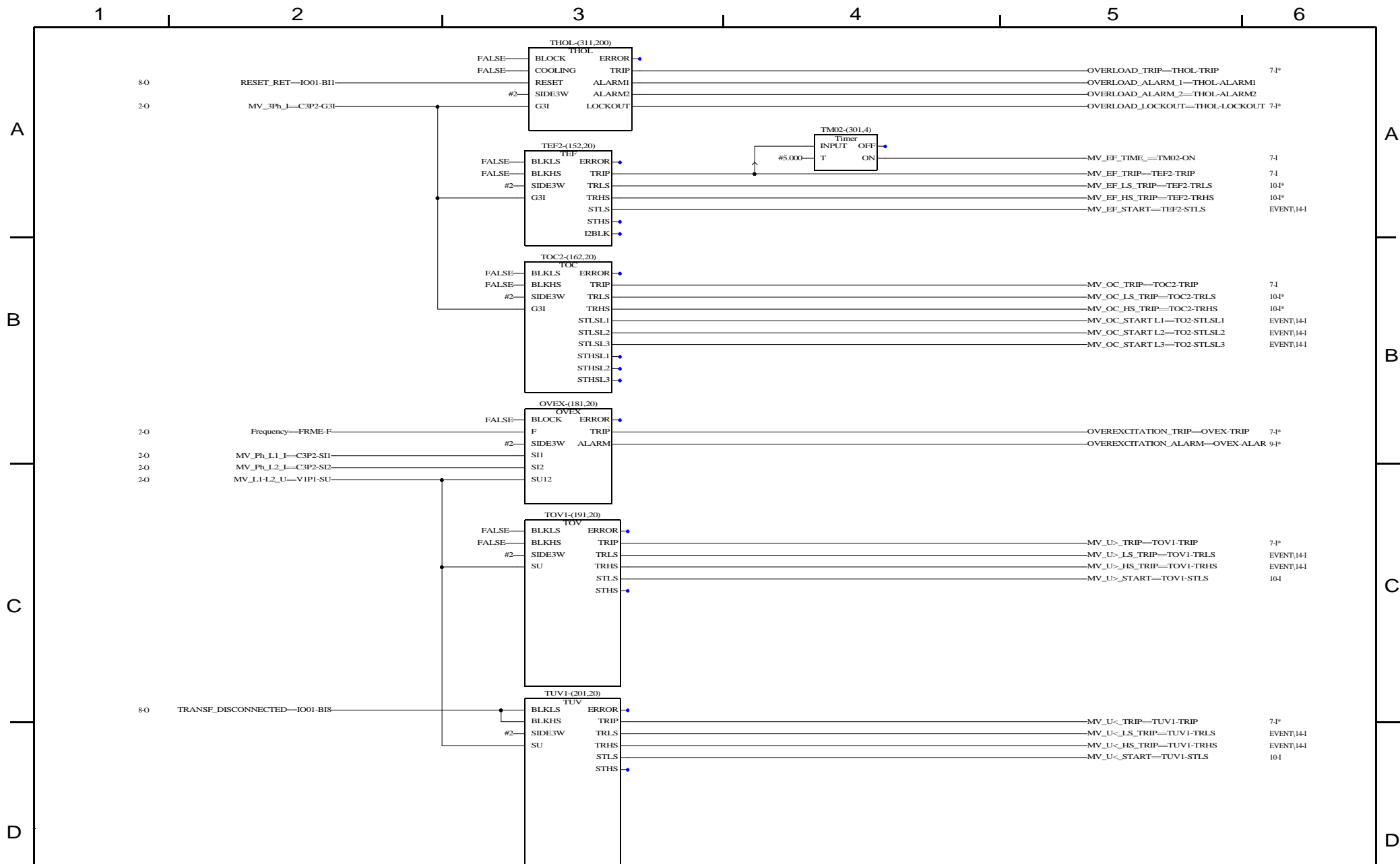
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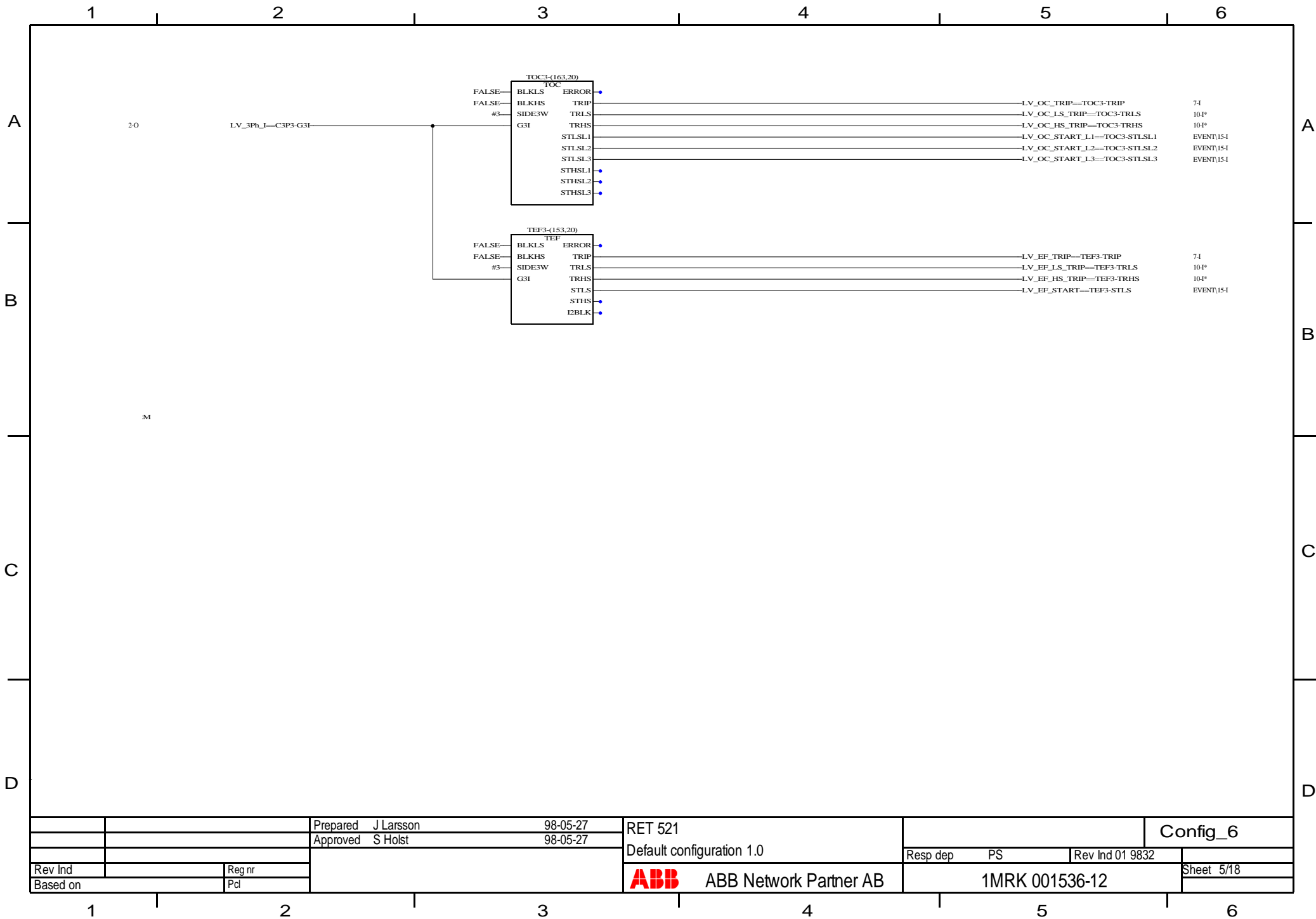
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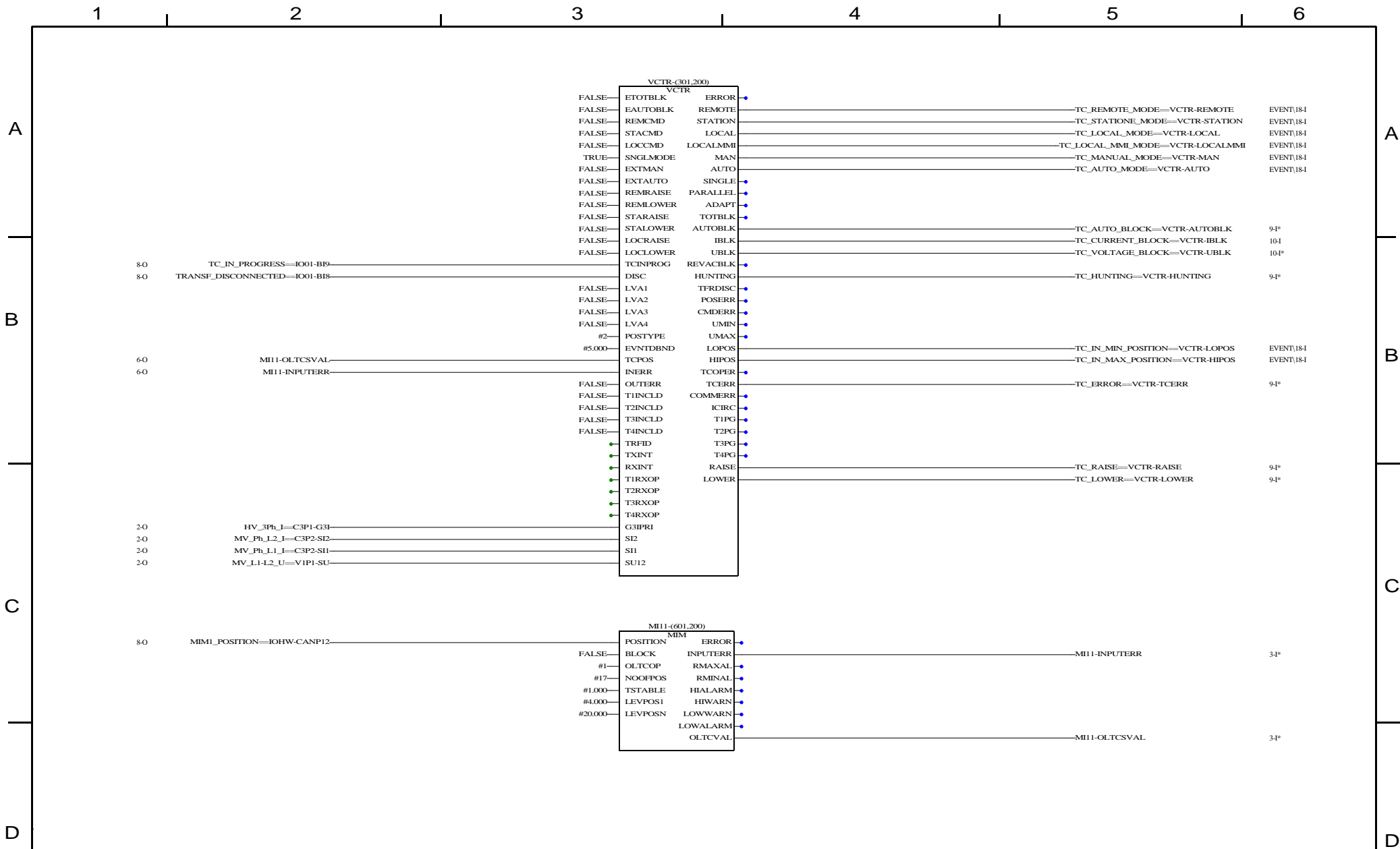
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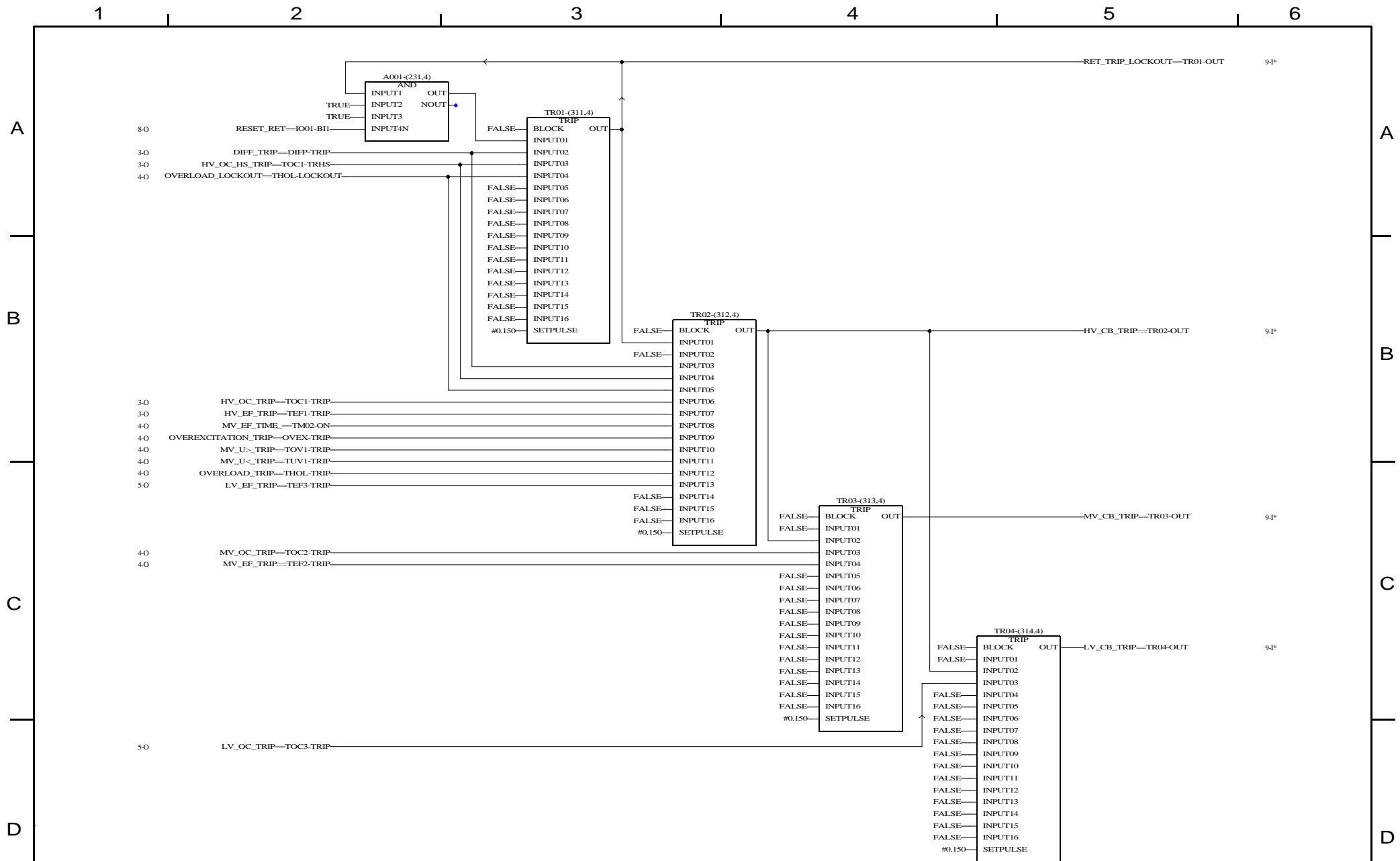
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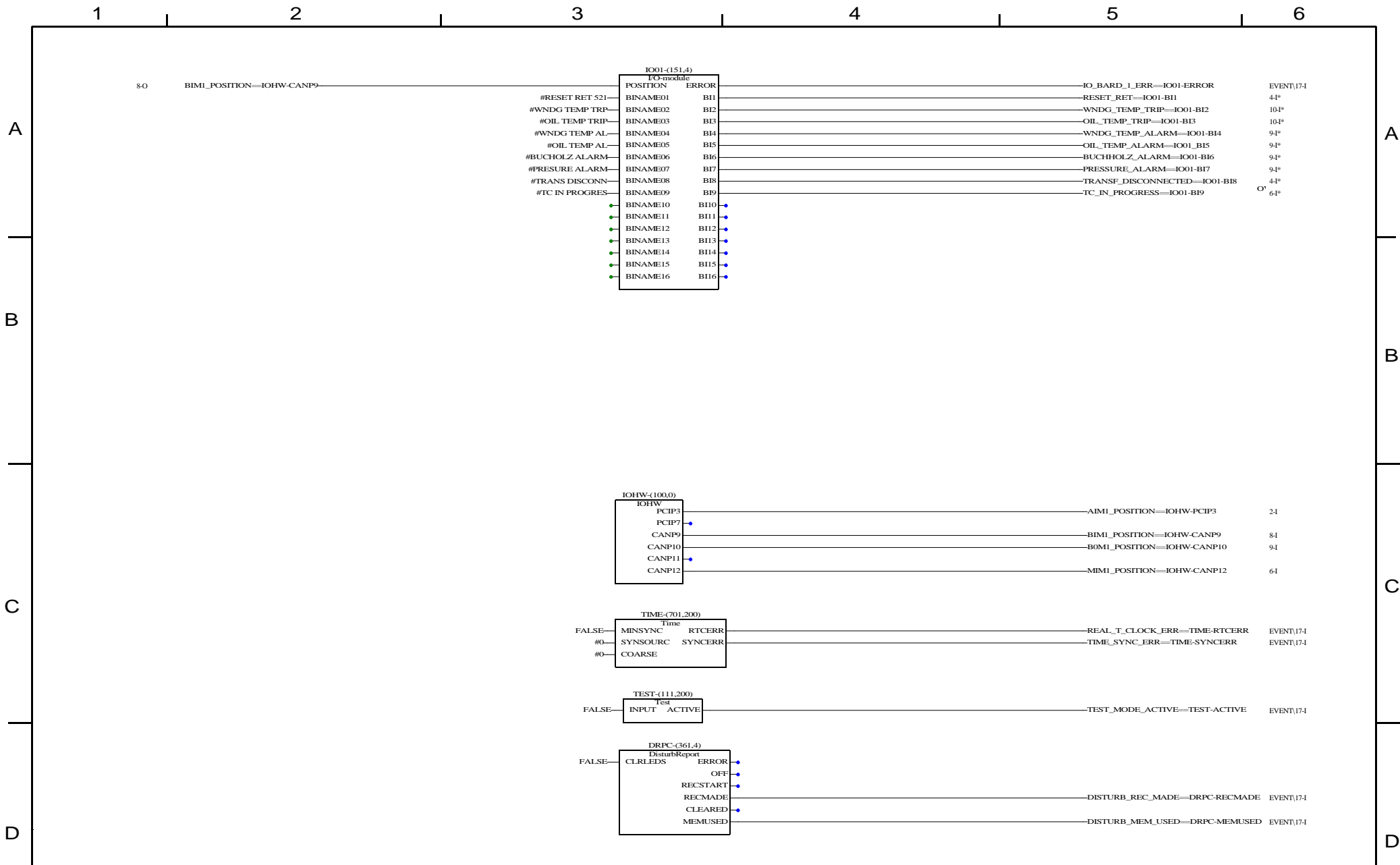
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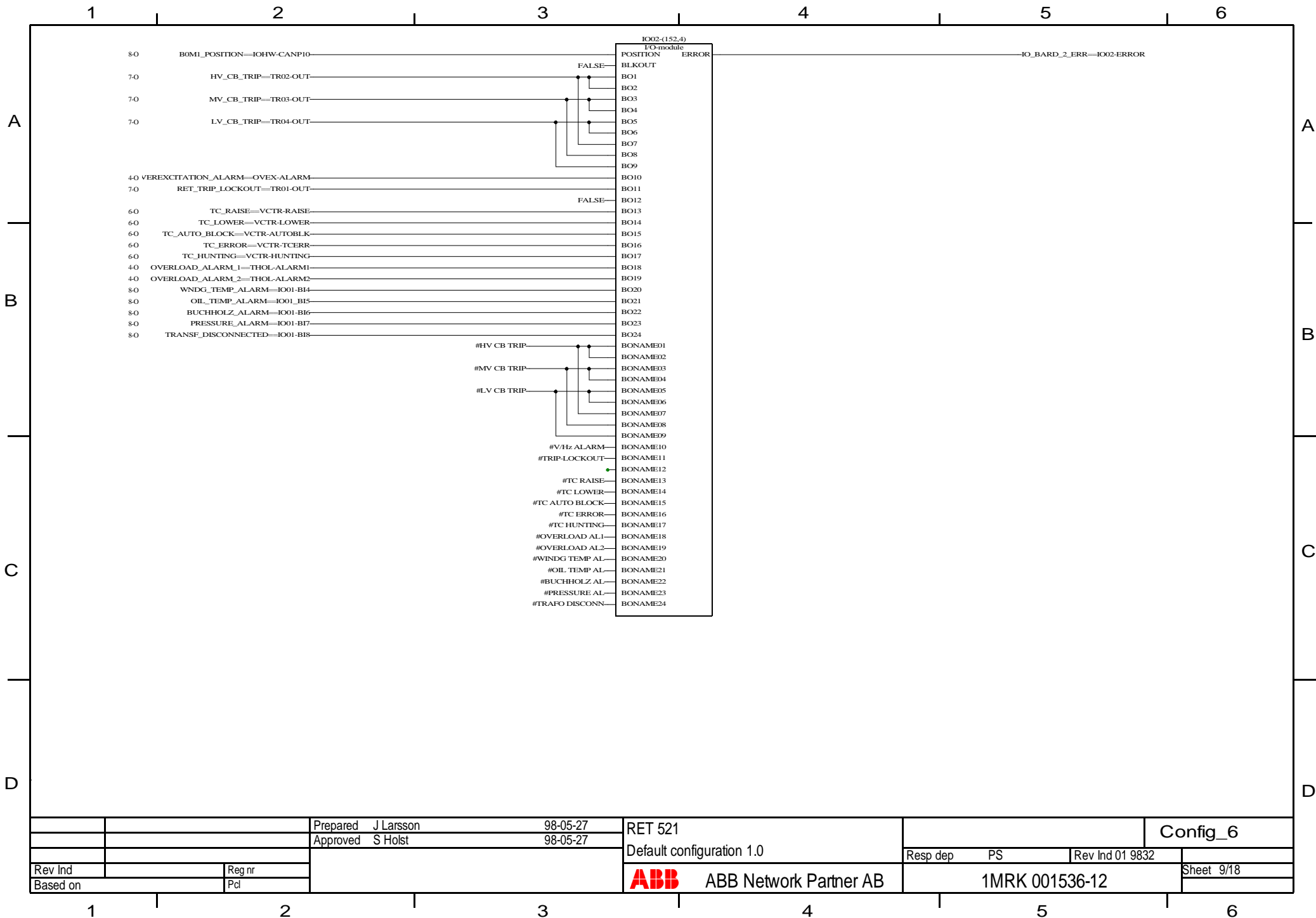
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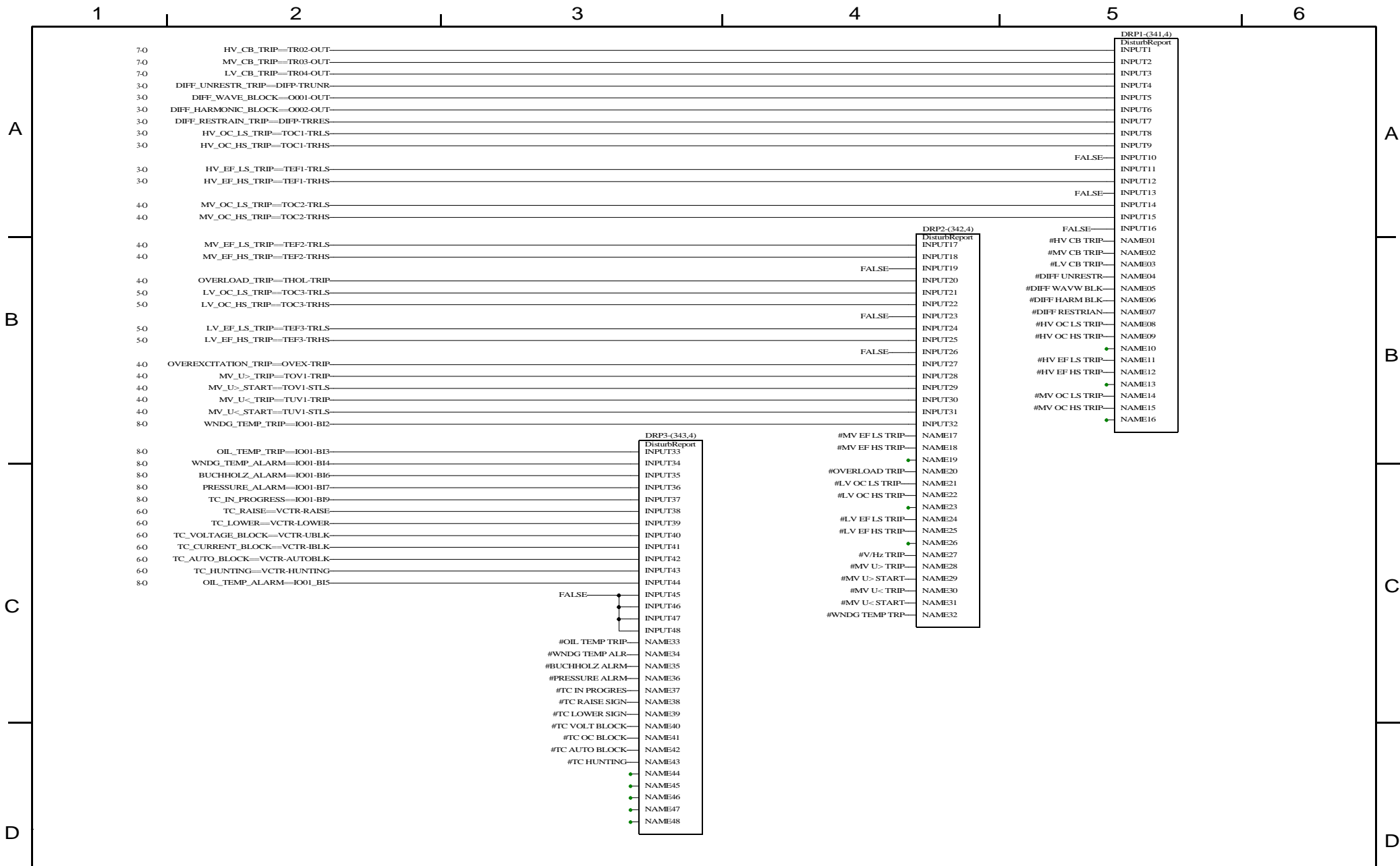
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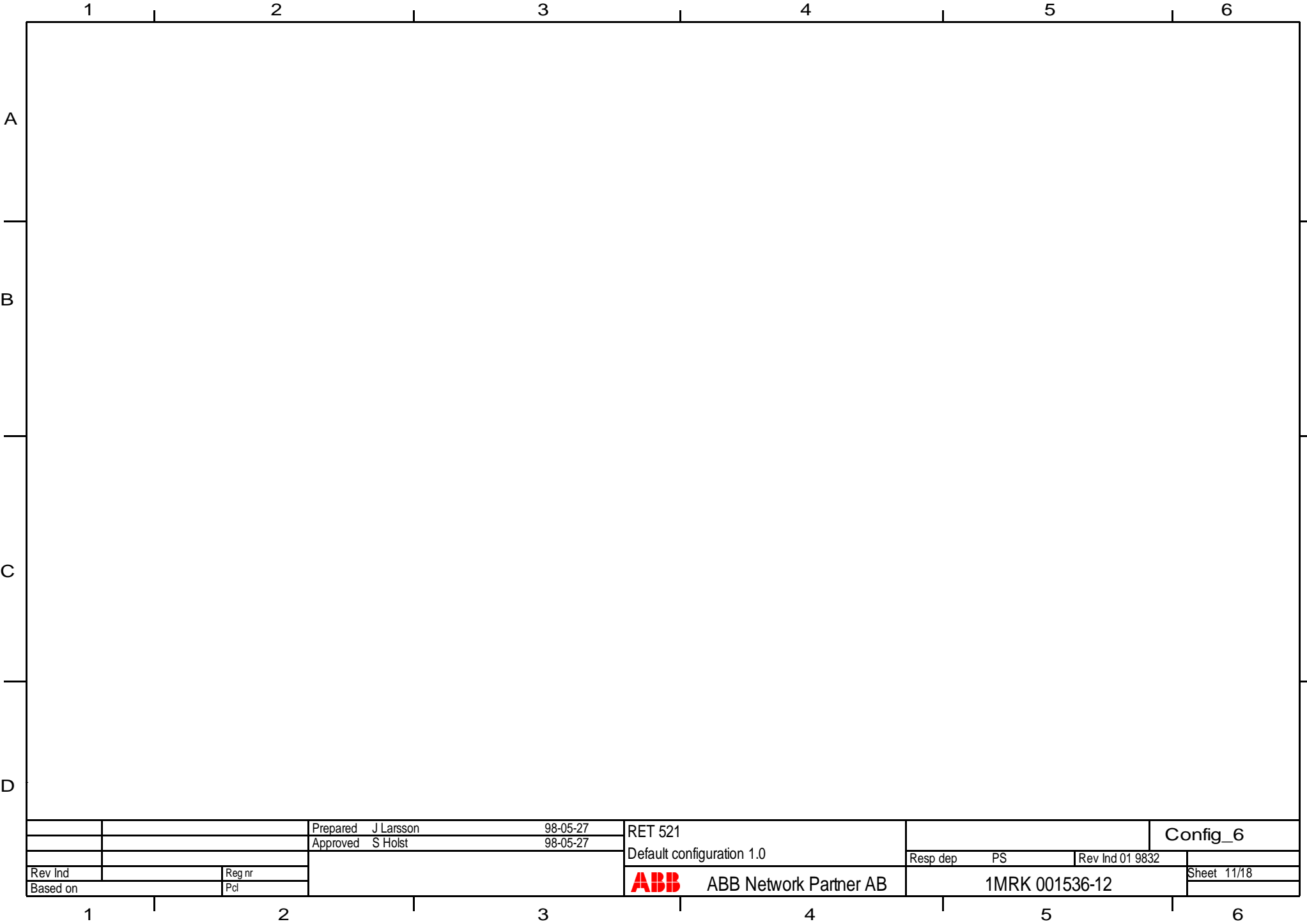
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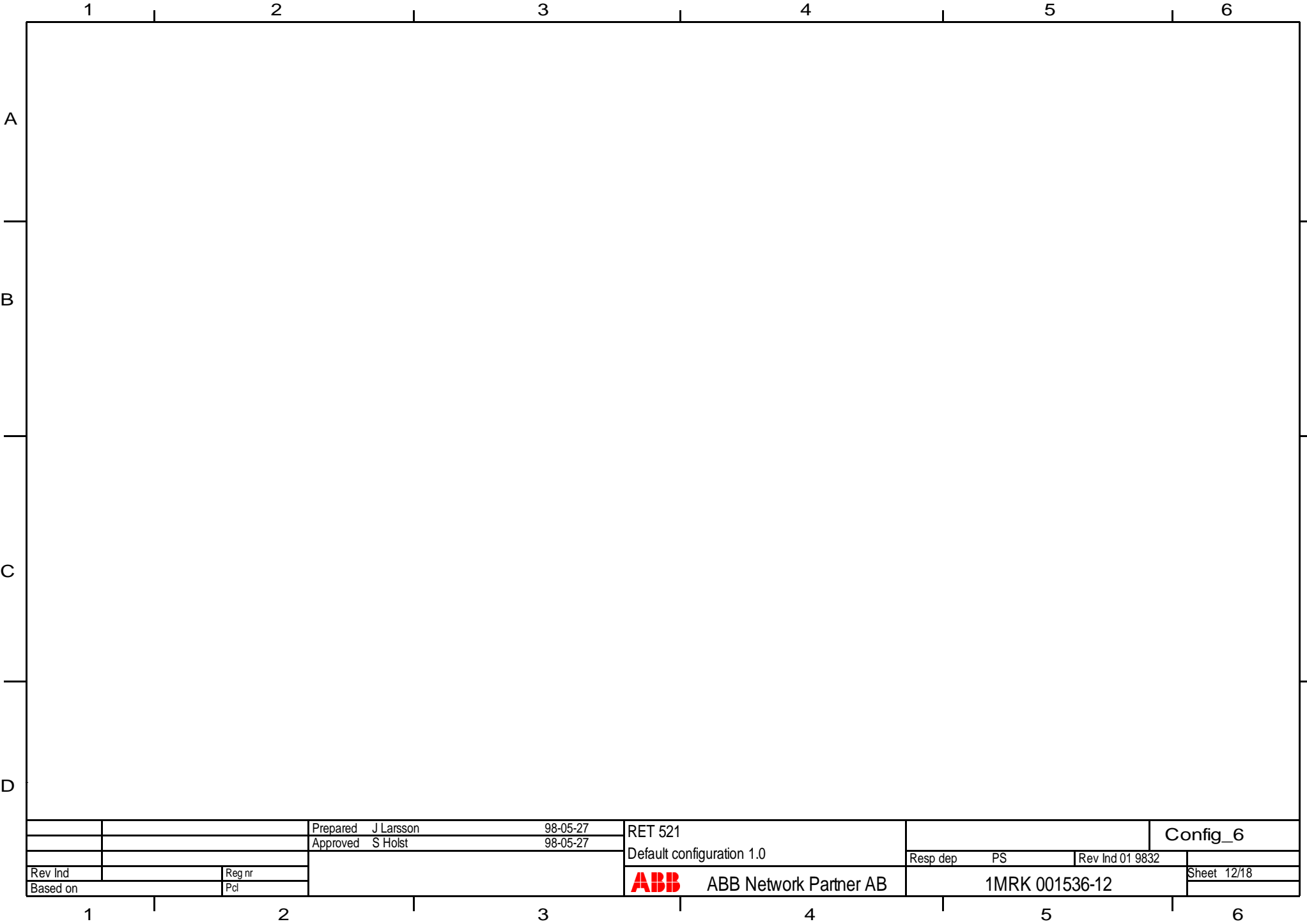
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Based on	Pcl	ABB Network Partner AB				



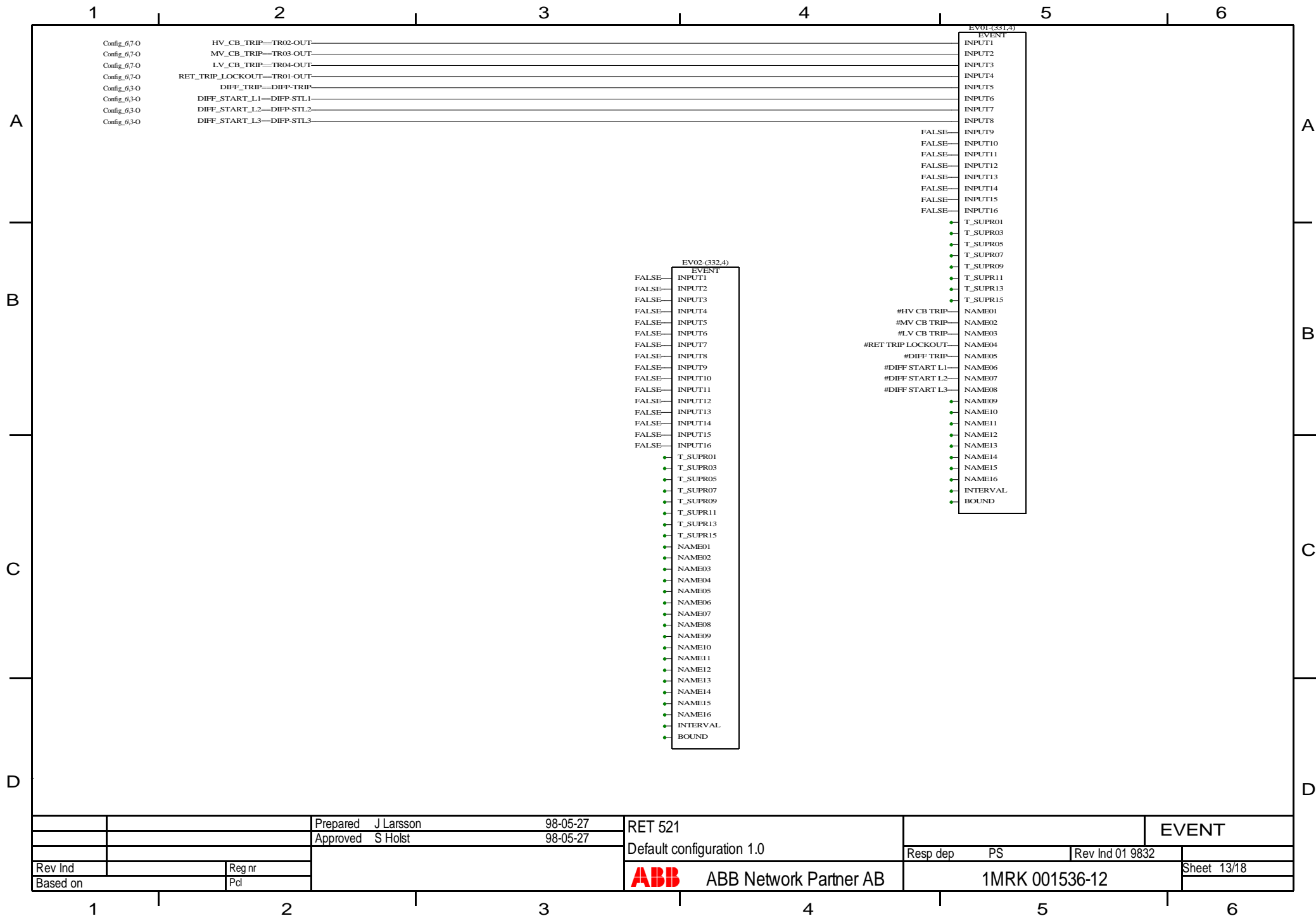
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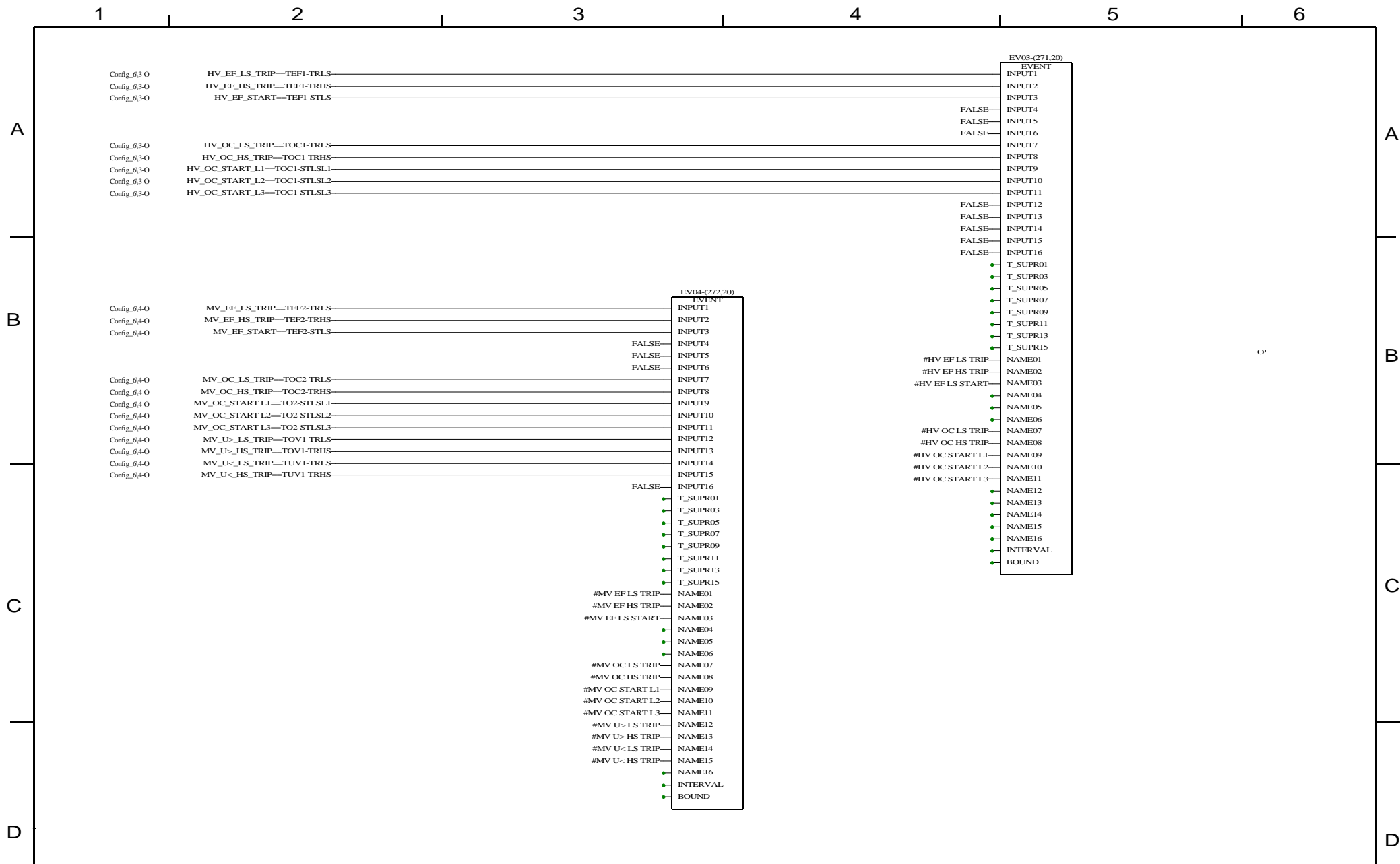
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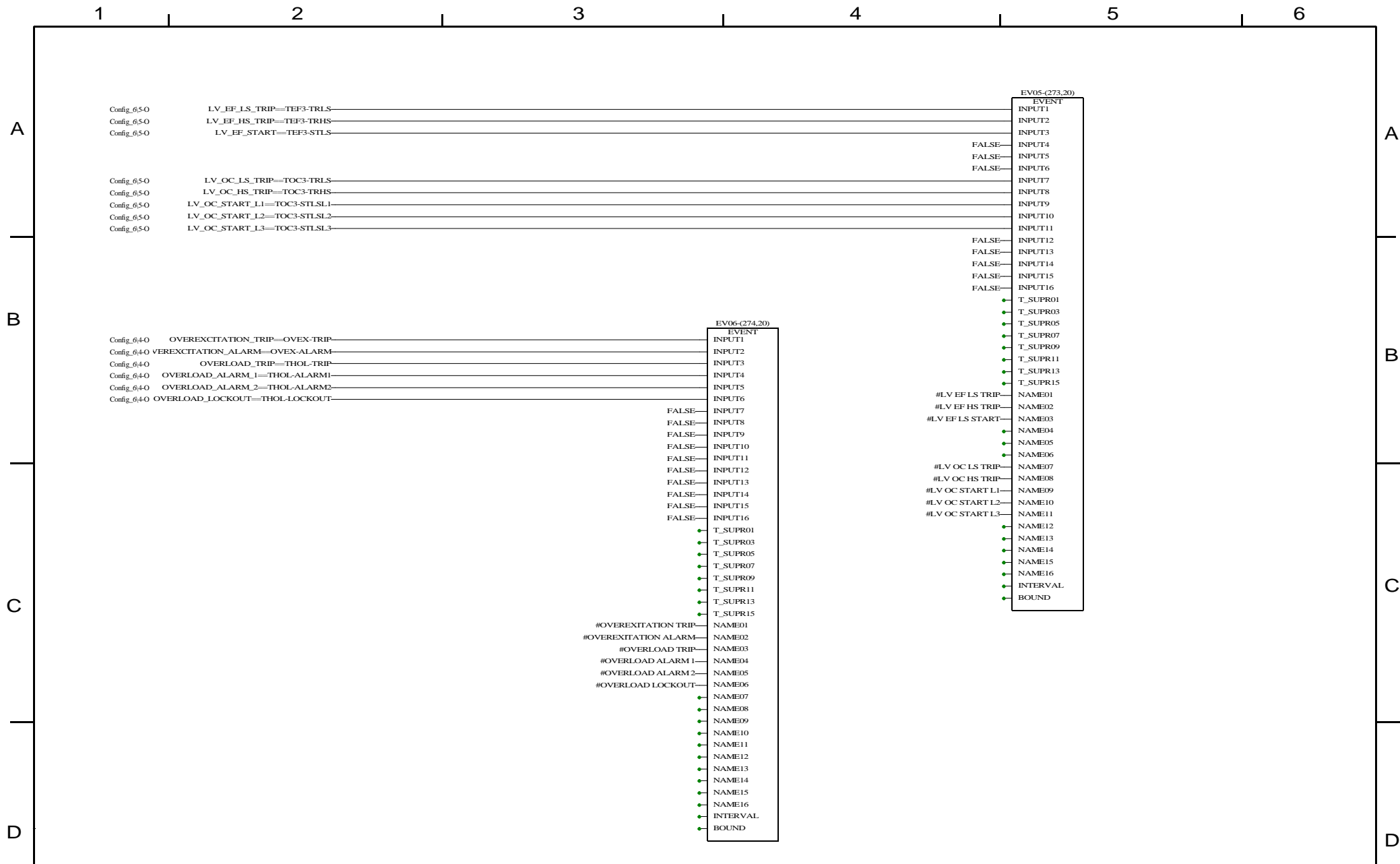
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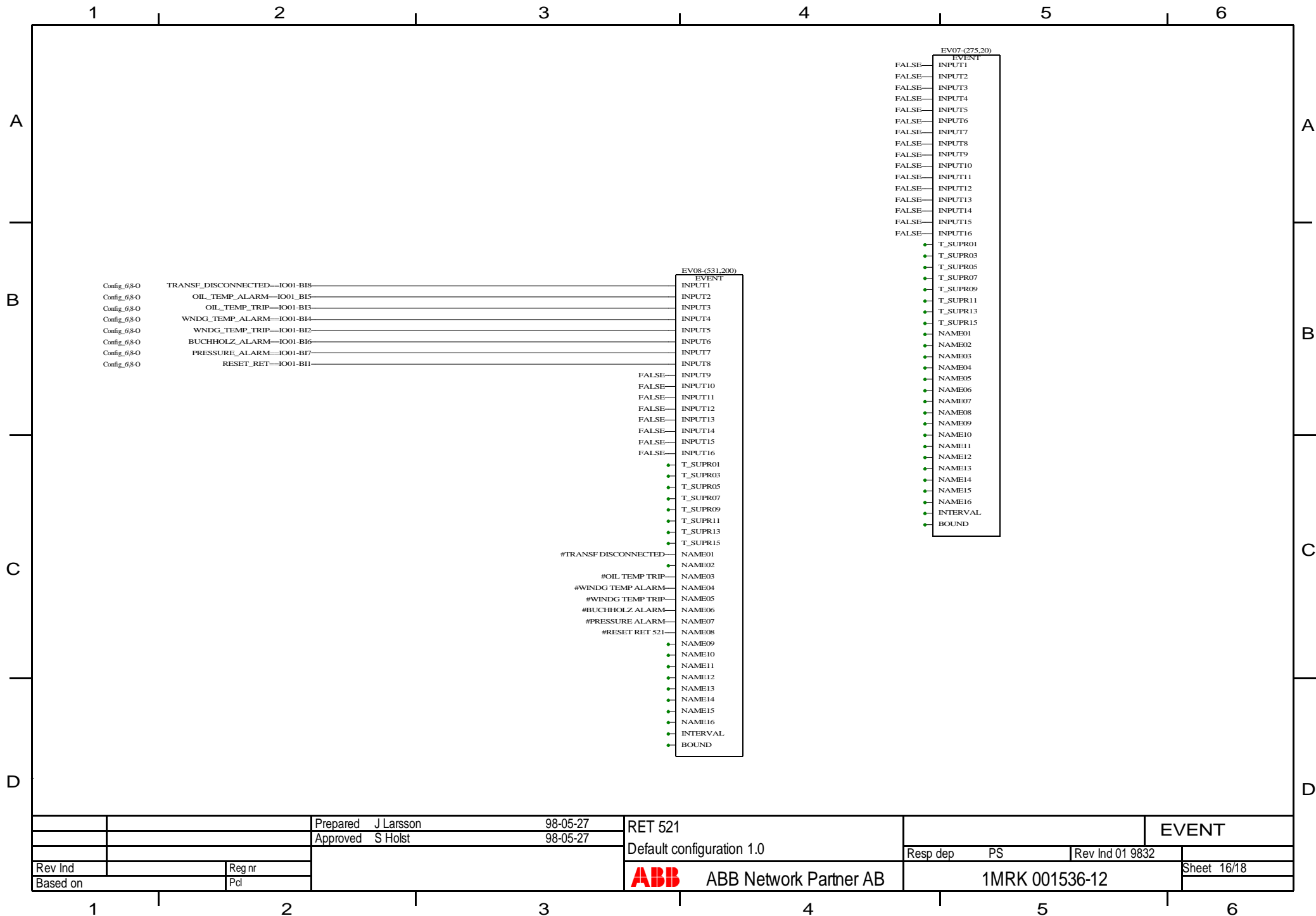
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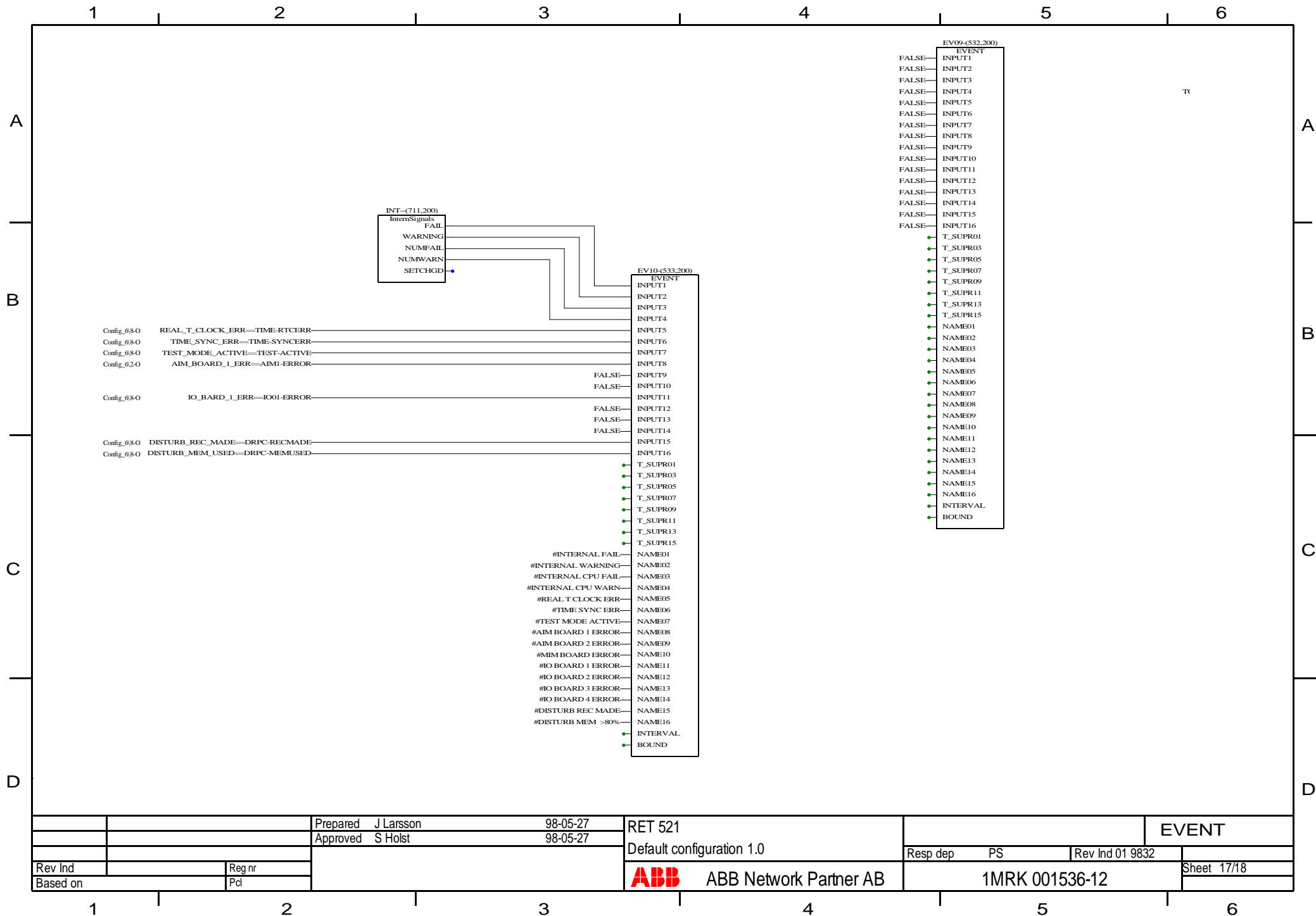
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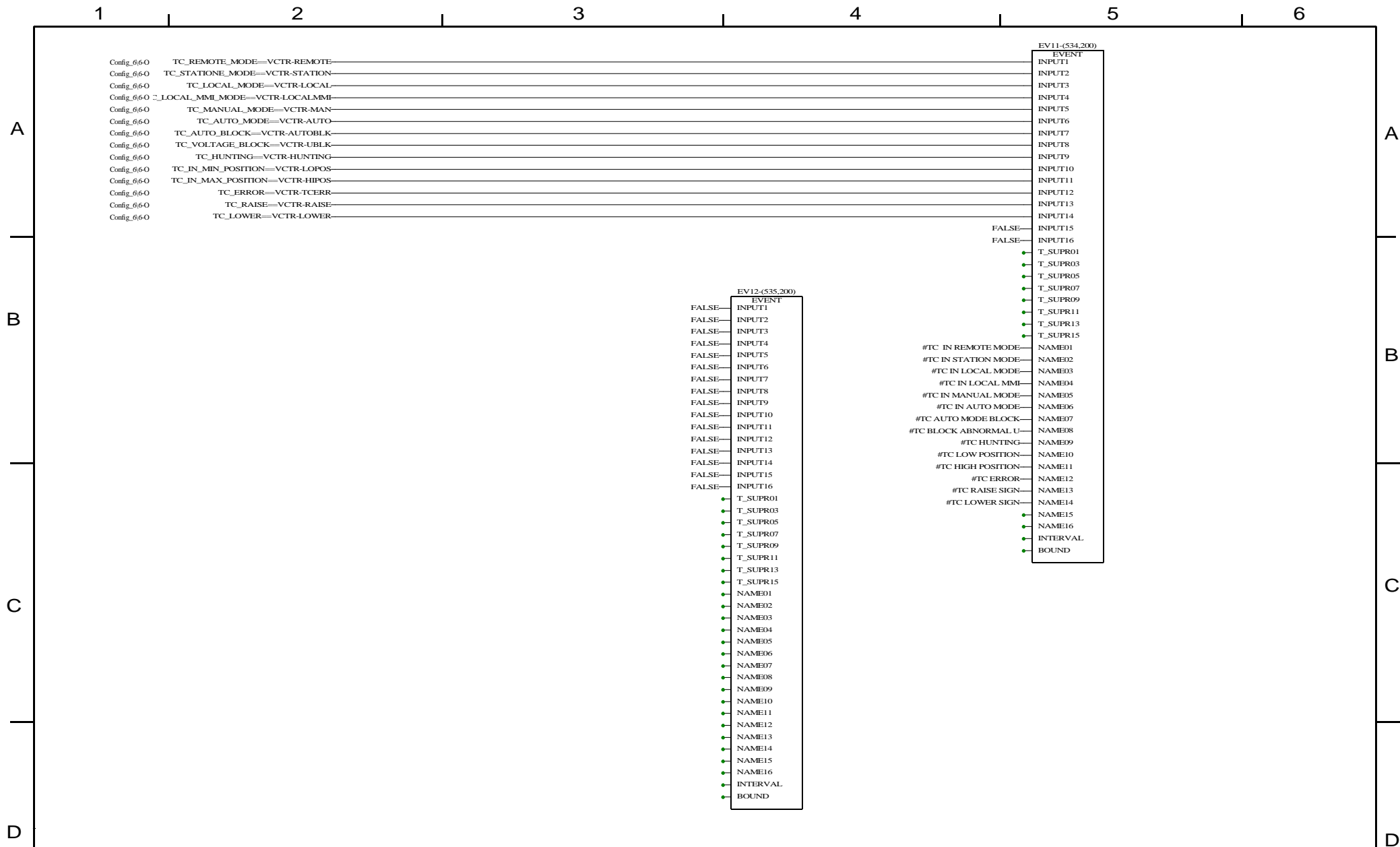


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